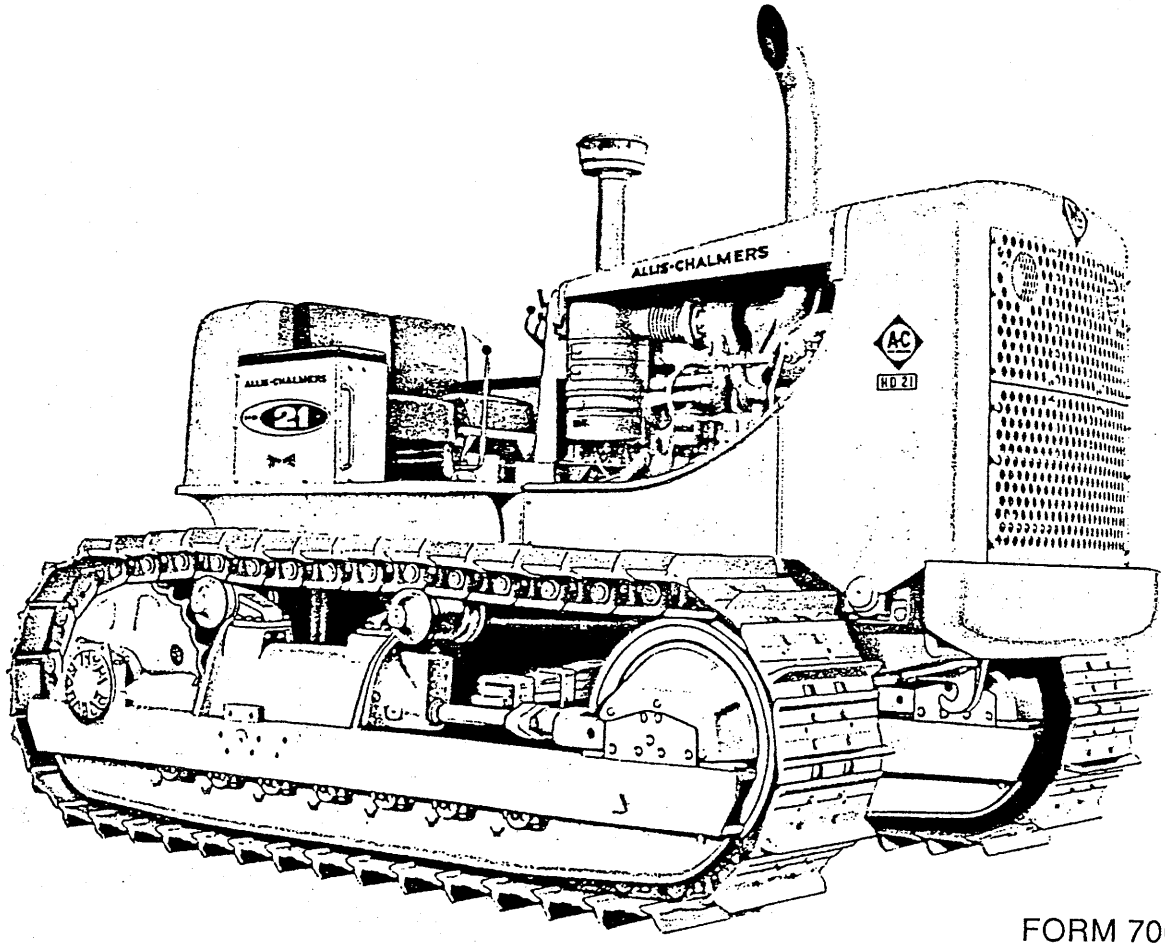
# HD 21

## Crawler Tractor

## PARTS CATALOG

### Prior to Serial No. 12501




FORM 70650203
Reprint 1-90

# AVOID ACCIDENTS

Most accidents, whether they occur in industry, on the farm, at home or on the highway, are caused by the failure of some individual to follow simple and fundamental safety rules or precautions. For this reason MOST ACCIDENTS CAN BE PREVENTED by recognizing the real cause and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of any type of equipment there are many conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

A careful operator is the best insurance against an accident. The complete observance of one simple rule would prevent many thousand serious injuries each year.
That rule is:

*Never attempt to clean, oil or adjust a machine while it is in motion.*

NATIONAL SAFETY COUNCIL

## WARNING

On machines having hydraulically, mechanically, and/or cable controlled equipment (such as shovels, loaders, dozers, scrapers, etc.) be certain the equipment is lowered to the ground before servicing, adjusting and/or repairing. If it is necessary to have the hydraulically, mechanically, and/or cable controlled equipment partially or fully raised to gain access to certain items, be sure the equipment is suitably supported by means other than the hydraulic lift cylinders, cable and/or mechanical devices used for controlling the equipment.

Fiatallis is not responsible for any liability arising from any damage resulting from defects caused by parts and/or components not approved by Fiatallis for use in maintaining and/or repairing products manufactured or merchandized by Fiatallis.

In any case, no warranty of any kind is made or shall be imposed with respect to products manufactured or merchandized by Fiatallis when failures are casued by the use of parts and/or components not approved by Fiatallis.

## MODEL IDENTIFICATION

The models listed in this Parts List and their identifying symbols are indicated below. This symbol is stamped in front of the tractor serial number on each model.

| MODEL SYMBOL | ENGINE MODEL | DESCRIPTION |
|---|---|---|
| HD21A | HDS-844 (Prior to tr. #9001) | 44,000 pound track-type tractor, 2-speed standard transmission, hydraulic torque converter drive, powered with a supercharged diesel engine. |
| HD21A | HDT-844 (Tr. #9001-11000) | 45,500 pound track-type tractor, 2-speed standard transmission, hydraulic torque converter drive, powered with a turbocharged diesel engine. |
| HD21A | 21000 (Eff. tr. #11001) | |
| HD21F | HDS-844 (Prior to tr. #9001) | 46,200 pound track-type tractor, 2-speed standard transmission, hydraulic torque converter drive, powered with a supercharged diesel engine. |
| HD21F | HDT-844 (Tr. #9001-11000) | 46,200 pound track-type tractor, 2-speed standard transmission, hydraulic torque converter drive, powered with a turbocharged diesel engine. |
| HD21F | 21000 (Eff. tr. #11001) | |
| HD21G | HDS-844 (Prior to tr. #9001) | 66,500 pound track-type tractor shovel, 2-speed standard transmission, hydraulic torque converter drive, powered with a supercharged diesel engine. |
| HD21G | HDT-844 (Tr. #9001-11000) | 66,500 pound track-type tractor shovel, 2-speed standard transmission, hydraulic torque converter drive, powered with a turbocharged diesel engine. |
| HD21G | 21000 (Eff. tr. #11001) | 70,900 pound track-type tractor shovel, 2-speed standard transmission, hydraulic torque converter drive, powered with a turbocharged diesel engine. |

## RECORD YOUR SERIAL NUMBER BELOW

TRACTOR SERIAL NO. _____

ENGINE SERIAL NO. _____

SHOVEL SERIAL NO. _____

LOADER SERIAL NO. _____

## SERIAL NUMBER LOCATIONS

| | |
|---|---|
| TRACTOR SERIAL NO. | On rear face of steering clutch housing at the upper right hand corner; on late Model HD21F it is located at the upper left hand corner. Also on small plate attached to cowl. |
| ENGINE SERIAL NO. | On plate attached to the left hand side of the cylinder block near the rear end. Also on small plate attached to cowl. |
| SHOVEL SERIAL NO. | On plate attached to the rear face of the left hand shovel frame. |
| LOADER SERIAL NO. | On plate attached to the left side of the loader frame. On early units it was located on the front face of the loader frame center bar. |

## IMPORTANT

The terms "right" and "left" used throughout this parts list are determined by facing the direction of forward travel.

Attaching parts such as bolts, nuts, rivets, screws, washers, etc., are indented immediately following the parts which they attach.

Parts indicated with a square (□) are also available in packaged sets. Refer to section titled " PACKAGED PARTS."

## INSTRUCTIONS FOR ORDERING PARTS

ALWAYS GIVE THE MODEL AND ENGINE SERIAL NUMBER.

To obtain parts promptly, give part name and part number.

Give post office address, town, county and state where parts are to be shipped. Also specify whether material is to be shipped by freight, express or parcel post.

Order parts from the dealer covering the local territory.

Confirm all telephone or telegraph orders in writing.

Parts for standard motor accessories such as generators and starting motors should be ordered from authorized Service Stations maintained by manufacturers of these units throughout the country.

No credit will be allowed on parts unless they are returned to the dealer from whom they were purchased; from there they will be returned, at the customer's expense, to the factory for inspection.

Unless claims for shortages or errors are made immediately upon receipt of goods, they will not be considered.

When broken goods are received, a full description of the damage should be made by the carrier agent on the freight bill. If this description is insisted upon, full damage can always be collected from the transportation company.

No responsibility is assumed for delay or damage to merchandise while in transit. Our responsibility ceases upon delivery of shipment to the transportation company from whom a receipt is received showing that shipment was in good condition when delivered to them; therefore, claims (if any) should be filed with the transportation company and not with Allis-Chalmers Manufacturing Company.

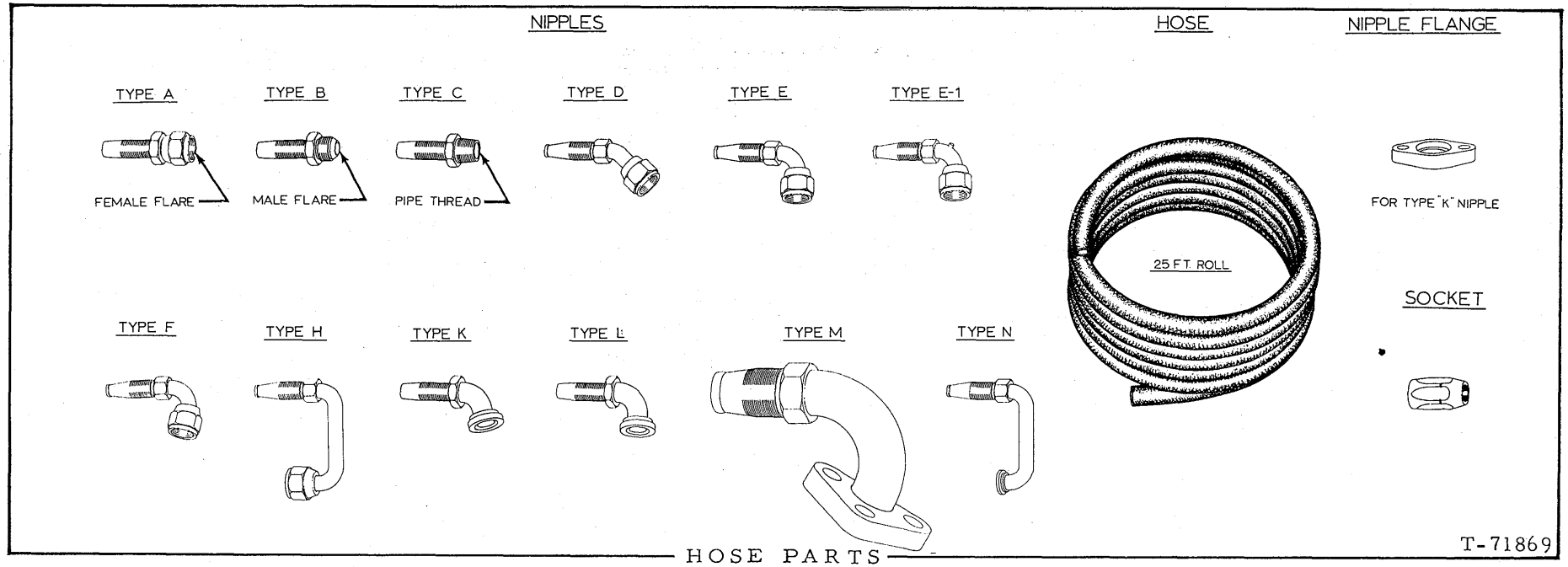
The right is reserved to change the construction or material of any parts where it seems desirable to do so, without incurring the obligation of installing such changes on units already delivered.

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HOSE PARTS

**NOTE:** Refer to right hand column for identity of interchangeable crimped-type hose (fittings not re-usable). Assembly number shown in left hand column indicates available replacement hose assembly with re-usable components; where no assembly number is listed, hose assembly is not available from factory but may be constructed in the field from data indicated.

| HOSE ASSEMBLY NO. (See NOTE) | BULK HOSE (25' roll) | HOSE LENGTH (inches) | NIPPLE (#1 end) | | | NIPPLE (#2 end) | | | SOCKET (both ends) | NIPPLE FLANGE | | CRIMPED-TYPE HOSE (See NOTE) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Including SOCKET | NIPPLE only | Type | Including SOCKET | NIPPLE only | Type | | Part No. | X Dim | Part No. |
| 089690 | 920222 | 44-3/8 | 921033 | 921034 | A | 921033 | 921034 | A | 919282 | | | |
| 089691 | 920222 | 66 | 921033 | 921034 | A | | 090586 | M | 919282 | | | |
| 093889 | 919156 | 7 | 920865 | 919081 | E | 920865 | 919081 | E | 919076 | | | |
| 094149 | 919155 | 39-3/4 | 920889 | 921002 | A | 920836 | 919073 | C | 919075 | | | |
| 094533 | 919155 | 22-5/8 | 920857 | 919079 | B | 920864 | 919082 | E | 919075 | | | |
| 094548 | 919155 | 31-1/4 | 920849 | 920302 | A | 920849 | 920302 | A | 919075 | | | |
| 094631 | 919155 | 6 | 920864 | 919082 | E | 920864 | 919082 | E | 919075 | | | |
| 094940 | 919156 | 144-1/4 | 920850 | 920303 | A | 920880 | 919254 | D | 919076 | | | |
| 094942 | 919155 | 68-1/4 | 920849 | 920302 | A | 920857 | 919079 | B | 919075 | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 095127 | 920222 | 13-3/4 | 921033 | 921034 | A | 920843 | 919467 | C | 919282 | | | |
| 095440 | 919196 | 70 | 920855 | 919144 | B | 920869 | 919253 | E | 919143 | | | |
| 095567 | 919156 | 54-7/8 | 920850 | 920303 | A | 920858 | 919080 | B | 919076 | | | |
| 095583 | 919155 | 20-3/4 | 920857 | 919079 | B | 920864 | 919082 | E | 919075 | | | |
| 095685 | 919196 | 9-3/8 | 920847 | 920301 | A | 920862 | 919194 | E | 919143 | | | |
| 095732 | 919155 | 7-5/16 | 920849 | 920302 | A | 920836 | 919073 | C | 919075 | | | |
| 095776 | 919155 | 10-1/4 | 920849 | 920302 | A | 920864 | 919082 | E | 919075 | | | |
| 095910 | 919156 | 67-5/8 | 920850 | 920303 | A | 920850 | 920303 | A | 919076 | | | |
| 096022 | 919155 | 65-1/2 | 920849 | 920302 | A | 920857 | 919079 | B | 919075 | | | |
| 096035 | 919155 | 57-1/2 | 920849 | 920302 | A | 920857 | 919079 | B | 919075 | | | |
| 096115 | 919155 | 37-1/2 | 920849 | 920302 | A | 920857 | 919079 | B | 919075 | | | |
| 096190 | 919155 | 29-1/4 | 920857 | 919079 | B | 920864 | 919082 | E | 919075 | | | |
| 096192 | 919155 | 57-1/2 | 920849 | 920302 | A | 920849 | 920302 | A | 919075 | | | |
| 096197 | 919196 | 42 | 920855 | 919144 | B | 920862 | 919194 | E | 919143 | | | |
| 096572 | 919156 | 65-1/4 | 920850 | 920303 | A | 920858 | 919080 | B | 919076 | | | |
| 096943 | 920222 | 115 | 920875 | 920232 | E | | 090586 | M | 919282 | | | |
| 097207 | 919196 | 48-1/8 | 920847 | 920301 | A | 920862 | 919194 | E | 919143 | | | |
| 622977 | 919156 | 7-3/4 | 920850 | 920303 | A | 920880 | 919254 | D | 919076 | | | |
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| 623092 | 919155 | 76-3/4 | 920849 | 920302 | A | 920857 | 919079 | B | 919075 | | | |
| 623093 | 919155 | 60-3/4 | 920849 | 920302 | A | 920857 | 919079 | B | 919075 | | | |
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| 623280 | 920221 | 18-1/4 | 920867 | 919277 | E | | 623615 | E1 | 919281 | | | |
| 623282 | 920221 | 118 | 920882 | 919278 | D | 920867 | 919277 | E | 919281 | | | |
| 623283 | 920221 | 123-3/4 | 920867 | 919277 | E | | 921414 | F | 919281 | | | |
| 623287 | 920221 | 14-3/4 | 920867 | 919277 | E | 920867 | 919277 | E | 919281 | | | |
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| 623306 | 919196 | 22 | 920862 | 919194 | E | 920862 | 919194 | E | 919143 | | | |
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| 625682 | 920221 | 51-1/2 | 920852 | 920344 | A | 920852 | 920344 | A | 919281 | | | |
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(Continued)

| | | | | | | | | | | | | |
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| 626535 | 920795 | 59-1/2 | 920935 | 921304 | B | 920935 | 921304 | B | 920973 | | | |
| 626536 | 920795 | 59-1/2 | 920945 | 922831 | A | 920935 | 921304 | B | 920973 | | | |
| 626617 | 920794 | 9-5/8 | 921020 | 922830 | A | 921020 | 922830 | A | 920972 | | | |
| 626626 | 920795 | 30-3/4 | 920928 | 920970 | C | | 626627 | H | 920973 | | | |
| 626628 | 920794 | 14-1/2 | | 641707 | E | | 641707 | E | 920972 | | | |
| 626630 | 920795 | 36-1/2 | 920945 | 922831 | A | | 626627 | H | 920973 | | | |
| 626632 | 920795 | 42-1/2 | 920945 | 922831 | A | 920928 | 920970 | C | 920973 | | | |
| 627128 | 920795 | 25-1/8 | 920935 | 921304 | B | 920928 | 920970 | C | 920973 | | | |
| 627138 | 920794 | 48-1/4 | 921020 | 922830 | A | 921020 | 922830 | A | 920972 | | | |
| 627618 | 920794 | 51-3/8 | 921020 | 922830 | A | 3011842 | 922894 | L | 920972 | | | |
| 627649 | 920795 | 161-1/4 | 920945 | 922831 | A | 920945 | 922831 | A | 920973 | | | |
| 627659 | 920795 | 154-3/4 | 920945 | 922831 | A | 920945 | 922831 | A | 920973 | | | |
| 627777 | 920982 | 36-5/8 | | 641691 | E | | 922937 | L | 920986 | | | |
| 627799 | 920982 | 28-1/8 | 920946 | 922832 | A | 920936 | 922835 | B | 920986 | | | |
| 627804 | 920982 | 112 | | 641691 | E | | 922938 | N | 920986 | | | |
| 629184 | 919196 | 28-1/2 | 920847 | 920301 | A | 920862 | 919194 | E | 919143 | | | |
| 629780 | 919156 | 9 | 920865 | 919081 | E | | 919175 | F | 919076 | | | |
| 629785 | 919156 | 9 | 920865 | 919081 | E | | 919175 | F | 919076 | | | |
| 631502 | 920221 | 20-5/8 | 920852 | 920344 | A | 920867 | 919277 | E | 919281 | | | |
| 631503 | 920221 | 23-1/2 | 920852 | 920344 | A | 920867 | 919277 | E | 919281 | | | |
| 631504 | 920221 | 134-1/2 | 920852 | 920344 | A | | 921414 | F | 919281 | | | |
| 631505 | 920221 | 127 | 920852 | 920344 | A | 920867 | 919277 | E | 919281 | | | |
| 632049 | 919196 | 7-1/8 | 920847 | 920301 | A | 920862 | 919194 | E | 919143 | | | |
| 632123 | 919156 | 50 | 920872 | 919158 | E | 920872 | 919158 | E | 919076 | | | |
| 632124 | 919156 | 50 | 920880 | 919254 | D | 920872 | 919158 | E | 919076 | | | |
| 3006854 | 920795 | 44-3/16 | 920945 | 922831 | A | 920935 | 921304 | B | 920973 | | | |
| 3010972 | 920795 | 72 | 920945 | 922831 | A | 920928 | 920970 | C | 920973 | | | |
| 3010979 | 920795 | 72 | 920928 | 920970 | C | 920928 | 920970 | C | 920973 | | | |
| 3013865 | 919474 | 29-1/4 | 920851 | 921046 | A | 920851 | 921046 | A | 919469 | | | |
| 3013972 | 920982 | 30-1/4 | | 641691 | E | | 922937 | L | 920986 | | | |
| 4335557 | 919196 | 7-7/8 | 920847 | 920301 | A | 920833 | 919200 | C | 919143 | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4365676 | 919196 | 7-3/4 | 920847 | 920301 | A | 920833 | 919200 | C | 919143 | | | |
| 4365678 | 919196 | 15-3/4 | 920847 | 920301 | A | 920833 | 919200 | C | 919143 | | | |
| 4376054 | 919155 | 10-1/4 | 920879 | 919159 | D | 920864 | 919082 | E | 919075 | | | |
| 4376055 | 919155 | 19-1/8 | 920857 | 919079 | B | 920871 | 919157 | E | 919075 | | | |
| 4376111 | 919156 | 37-3/8 | 920850 | 920303 | A | | 919175 | F | 919076 | | | |
| 4376337 | 919166 | 24-1/2 | | 920772 | A | | 919165 | K | 919164 | 919295 | 2" | |
| 4376742 | 919156 | 17 | 920880 | 919254 | D | 920872 | 919158 | E | 919076 | | | |
| 4376879 | 919166 | 7-13/16 | | 920772 | A | | 919165 | K | 919164 | 919295 | 2" | |
| 4376906 | 919196 | 16-3/8 | 920847 | 920301 | A | 920862 | 919194 | E | 919143 | | | |
| 4376907 | 919156 | 15-1/2 | 920 850 | 920303 | A | 920865 | 919081 | E | 919076 | | | |
| 4376908 | 919156 | 10-1/2 | 920850 | 920303 | A | 920865 | 919081 | E | 919076 | | | |
| 4377153 | 919772 | 11-1/4 | 920863 | 920155 | E | 920863 | 920155 | E | 919768 | | | |
| 4377457 | 919156 | 26-1/4 | 920880 | 919254 | D | 920872 | 919158 | E | 919076 | | | |
| 4377458 | 919155 | 22-3/4 | 920879 | 919159 | D | 920864 | 919082 | E | 919075 | | | |
| 4379282 | 919155 | 27-7/8 | | 919914 | H | | 919914 | H | 919075 | | | |
| 4385086 | 919155 | 23-7/8 | 920849 | 920302 | A | | 919914 | H | 919075 | | | |
| 4385727 | 919155 | 24-7/8 | 920849 | 920302 | A | | 919914 | H | 919075 | | | |
| 4386238 | 919821 | 28-1/4 | | 921225 | C | | 920513 | E | 919820 | | | |
| ------- | 919156 | 111 | 920850 | 920303 | A | 920865 | 919081 | E | 919076 | | | 644511 |
| ------- | 919218 | 14-3/8 | 920850 | 920303 | A | 920880 | 919254 | D | 919076 | | | 645074 |
| ------- | 919155 | 7-5/16 | 920857 | 919079 | B | 920864 | 919082 | E | 919075 | | | 645079 |
| ------- | 919156 | 32-5/8 | 920880 | 919254 | D | 920865 | 919081 | E | 919076 | | | 646151 |
| ------- | 919155 | 83-3/4 | 920864 | 919082 | E | 920864 | 919082 | E | 919075 | | | 646321 |
| ------- | 920221 | 115-1/2 | 920852 | 920344 | A | 920867 | 919277 | E | 919281 | | | 646338 |
| ------- | 920221 | 51-1/2 | 920852 | 920344 | A | 920867 | 919277 | E | 919281 | | | 646341 |
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# PACKAGED PARTS

| PACKAGE NUMBER | DESCRIPTION |
|---|---|
| ------ | CLUTCH KIT, over-running, torque converter (See page 297) |
| ------ | ELEMENT KITS, filter and breather (See HYDRAULIC TANK section) |
| ------ | FILTER KIT, hydraulic system fluid (See SHOVEL PORTABLE FILTER) |

4377389 — GASKET KIT, cylinder head (Tractors prior to serial No. 9001)(HDS-844 series engine)

| | | |
|---|---|---|
| 1 | 4361537 | GASKET, (Not for HD21. Discard) |
| 4 | 4364131 | WASHER, sealing, rocker cover nut |
| 1 | 4366244 | GASKET, exhaust flange |
| 2 | 4371054 | GASKET, cylinder head |
| 1 | 4371897 | GASKET, water manifold connecting |
| 2 | 4375720 | GASKET, rocker cover |
| 12 | 4375865 | GASKET, intake and exhaust manifold |
| 2 | 4376430 | GASKET, breather connector |
| 1 | 4376520 | GASKET, thermostat cover |
| 1 | 4386137 | GASKET, upper water by-pass line |
| 6 | 4511204 | GASKET, injection nozzle |
| 1 | 4660344 | GASKET (Not for HD21. Discard) |
| 6 | 4660355 | GASKET, water manifold to head |

4377386 — GASKET KIT, cylinder head (Tractors serial No. 9001 thru No. 11000) (HDT-844 series engine)

| | | |
|---|---|---|
| 1 | 4361551 | GASKET, air intake elbow |
| 4 | 4364131 | WASHER, sealing, rocker cover nut |
| 2 | 4371054 | GASKET, cylinder head |
| 1 | 4371897 | GASKET, water manifold connecting |
| 1 | 4374774 | GASKET, air intake elbow |
| 1 | 4374848 | GASKET, turbocharger to exhaust manifold |
| 2 | 4375720 | GASKET, rocker cover |
| 12 | 4375865 | GASKET, intake and exhaust manifold |
| 2 | 4376430 | GASKET, breather connector |
| 1 | 4376520 | GASKET, thermostat cover |
| 1 | 4386137 | GASKET, upper water by-pass line |
| 6 | 4511204 | GASKET, injection nozzle |
| 1 | 4641412 | GASKET, turbocharger oil drain tube |
| 6 | 4660355 | GASKET, water manifold to head |

4386740 — GASKET KIT cylinder head (Tractors serial No. 11001 and up)(21000 series engine)

| | | |
|---|---|---|
| 8 | 917806 | SLEEVE, fuel line |
| 1 | 4361551 | GASKET, air intake elbow |
| 1 | 4362458 | GASKET, upper water by-pass tube |
| 1 | 4366244 | GASKET, exhaust flange (Discard. Not for HD21) |
| 12 | 4375865 | GASKET, intake and exhaust manifold |
| 6 | 4376483 | GASKET, water manifold to head |
| 1 | 4376520 | GASKET, thermostat cover |
| 1 | 4376527 | GASKET, water manifold connecting |
| 2 | 4376578 | GASKET, cylinder head lower cover |
| 2 | 4376656 | GASKET, breather connector |
| 4 | 4376749 | WASHER, rocker cover nut |
| 6 | 4378031 | GASKET, injection nozzle |
| 2 | 4379026 | GASKET, rocker cover |
| 2 | 4379167 | GASKET, center exhaust manifold |
| 1 | 4386137 | GASKET, water by-pass tube |
| 2 | 4386310 | GASKET, cylinder head |
| 2 | 4386370 | GASKET, cylinder head |

## PACKAGED PARTS

| PACKAGE NUMBER | | DESCRIPTION |
|---|---|---|
| 4377390 | | GASKET KIT, intermediate, engine cylinder block (Tractors prior to serial No. 9001)(HDS-844 series engine) |
| | 1 4030481 | GASKET, lower water by-pass line |
| | 1 4041153 | GASKET, supercharger mounting |
| | 2 4113897 | GASKET, regulating valve nut |
| | 1 4251601 | GASKET, tachometer drive adapter |
| | 1 4253355 | O-RING, flywheel housing |
| | 1 4253819 | O-RING, supercharger drive housing |
| | 3 4310257 | GASKET, water elbows and oil filler |
| | 1 4336897 | RING, sealing, flywheel housing |
| | 1 4361740 | GASKET, water pump gear cover |
| | 1 4362148 | GASKET, intake manifold pipe |
| | 1 4362150 | GASKET, air discharge pipe |
| | 1 4362231 | GASKET, discharge elbow |
| | 1 4363367 | GASKET, intake manifold cover plate |
| | 6 4364131 | WASHER, sealing, push rod cover capscrew |
| | 1 4367090 | GASKET, tachometer hole nut |
| | 1 4369830 | GASKET, water inlet (Used prior to engine #81500) |
| | 3 4371027 | GASKET, oil lines |
| | 2 4371160 | GASKET, heat exchanger |
| | 1 4371289 | GASKET, oil pan rear cover |
| | 4 4371345 | GASKET, oil lines |
| | 1 4372429 | GASKET, water inlet (Engines #81500 and up) |
| | 1 4373049 | GASKET, timing gear housing cover |
| | 1 4373069 | GASKET, oil pan front cover |
| | 1 4376398 | GASKET, water pump |
| | 1 4376605 | GASKET, fuel transfer pump |
| | 4 4385520 | GASKET, water inlet manifold |
| | 1 4386495 | GASKET, oil by-pass valve |
| | 1 4660423 | GASKET, oil pump discharge tube |
| | 1 4660429 | GASKET, crankcase rear seal housing |
| | 1 4660457 | GASKET, accessory drive |
| | 1 4660492 | GASKET, timing gear housing |
| | 1 4660517 | GASKET, cylinder block cover plate |
| | 2 4660564 | GASKET, push rod cover |
| | 1 4660613 | GASKET (Discard. Not for HD21) |
| | 1 923817 | O-RING, supercharger drive housing cover |
| | 2 923814 | O-RING, intermediate gear support |
| 4377387 | | GASKET KIT, intermediate, engine cylinder block (Tractors serial No. 9001 thru No. 11000)(HDT-844 series engine) |
| | 1 4030481 | GASKET, lower water by-pass line |
| | 2 4113897 | GASKET, regulating valve nut |
| | 1 4251601 | GASKET, tachometer drive adapter |
| | 1 4253355 | O-RING, flywheel housing |
| | 3 4310257 | GASKET, oil filler and water elbows |
| | 1 4336897 | RING, sealing, flywheel housing |
| | 1 4361740 | GASKET, water pump gear cover |
| | 6 4364131 | WASHER, sealing, push rod cover capscrew |
| | 1 4367090 | GASKET, tachometer hole nut |
| | 4 4371027 | GASKET, oil lines |
| | 2 4371160 | GASKET, water inlet bonnet |
| | 1 4371289 | GASKET, oil pan rear cover |
| | 4 4371345 | GASKET, oil lines |
| | 1 4372429 | GASKET, water inlet manifold |
| | 1 4373069 | GASKET, oil pan front cover |
| | 1 4376398 | GASKET, water pump |

(Continued)

| PACKAGE NUMBER | | | DESCRIPTION |
|---|---|---|---|
| 4377387 | | | GASKET KIT, intermediate, engine cylinder block (Tractors serial No. 9001 thru No. 11000)(HDT-844 series engine)(Continued) |
| | 1 | 4376605 | GASKET, fuel transfer pump |
| | 1 | 4376609 | GASKET, timing gear cover |
| | 4 | 4385520 | GASKET, water inlet manifold |
| | 1 | 4386495 | GASKET, oil by-pass valve |
| | 1 | 4660423 | GASKET, oil pump discharge tube |
| | 1 | 4660429 | GASKET, crankcase rear seal housing |
| | 1 | 4660457 | GASKET, accessory drive |
| | 1 | 4660492 | GASKET, timing gear housing |
| | 1 | 4660517 | GASKET, cylinder block cover plate |
| | 2 | 4660564 | GASKET, push rod cover |
| 4388284 | | | GASKET KIT, intermediate, engine cylinder block (Tractors serial No. 11001 and up)(21000 series engine) |
| | 2 | 035249 | GASKET, oil drain plug |
| | 4 | 923645 | O-RING, injection pump bracket |
| | 2 | 4113897 | GASKET, regulating valve nut |
| | 16 | 4251984 | O-RING, injection connectors and water tubes |
| | 1 | 4253355 | O-RING, flywheel housing |
| | 2 | 4254806 | O-RING, bonnet tube |
| | 5 | 4255511 | O-RING, heat exchanger and oil filter |
| | 2 | 4255631 | O-RING, heat exchanger |
| | 3 | 4310257 | GASKET, oil filler and water outlet elbow (Discard 1 on HD21) |
| | 1 | 4336897 | RING, sealing, flywheel housing |
| | 1 | 4361740 | GASKET, water pump idler support |
| | 1 | 4367090 | GASKET, tachometer hole nut |
| | 1 | 4371027 | GASKET, turbocharger oil drain hose |
| | 2 | 4371160 | GASKET, heat exchanger |
| | 1 | 4371289 | GASKET, oil pan rear cover |
| | 4 | 4371345 | GASKET, oil lines |
| | 1 | 4371742 | GASKET (Discard. Not for HD21) |
| | 1 | 4373069 | GASKET, oil pan front cover |
| | 1 | 4376398 | GASKET, water pump |
| | 1 | 4376603 | GASKET, accessory drive |
| | 1 | 4376605 | GASKET, fuel transfer pump |
| | 1 | 4376609 | GASKET, timing gear housing cover |
| | 7 | 4376749 | WASHER, push rod cover capscrew |
| | 1 | 4378112 | GASKET, lower water by-pass tube |
| | 4 | 4385520 | GASKET, water inlet manifold |
| | 1 | 4386495 | GASKET, water and oil manifold, lower |
| | 1 | 4389291 | GASKET, water and oil manifold, upper |
| | 1 | 4660423 | GASKET, oil pump discharge tube |
| | 1 | 4660492 | GASKET, timing gear housing |
| | 1 | 4660517 | GASKET, cylinder block cover plate |
| | 2 | 4660564 | GASKET, push rod cover |
| 4385346 | | | GASKET KIT, turbocharger mounting (Tractors serial No. 9001 thru engine serial No. 21-3951) |
| | 1 | 4371027 | GASKET, oil drain hose |
| | 1 | 4374774 | GASKET, air intake elbow |
| | 1 | 4374848 | GASKET, turbocharger to exhaust manifold |
| | 1 | 4641412 | GASKET, oil drain tube |
| ------- | | | GASKET KIT, turbocharger mounting (See third type TURBOCHARGER) |
| ------ | | | GASKET SET (See first type STEERING CLUTCH AND FINAL DRIVE HOUSING) |

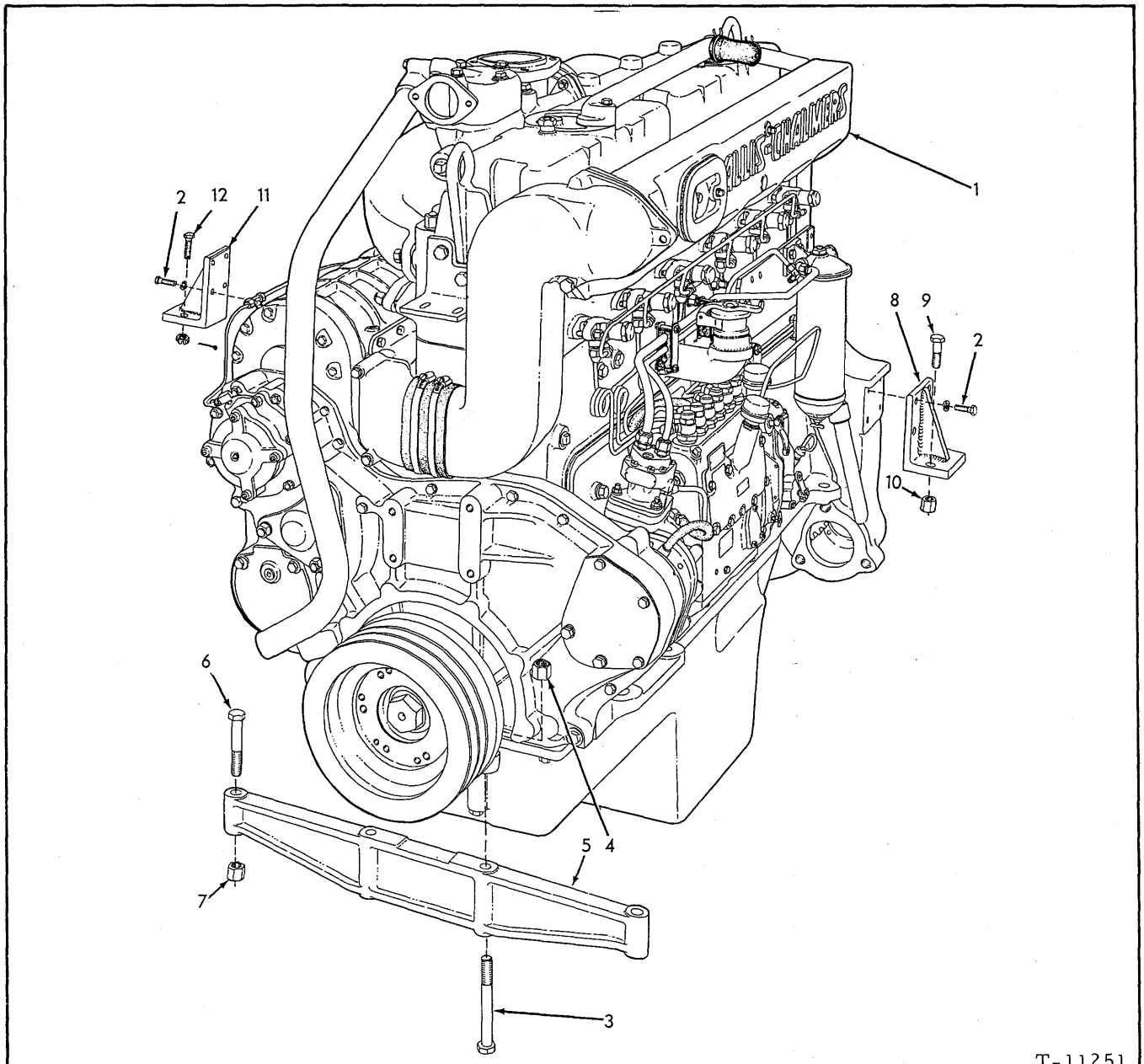
# PACKAGED PARTS

| PACKAGE NUMBER | DESCRIPTION |
|---|---|
| 069627 | GASKET SET, transmission |
| | 1 035249 GASKET, drain plug |
| | 1 052475 GASKET, top shaft front bearing retainer |
| | 2 052476 GASKET, reverse shaft |
| | 1 052478 GASKET, shifting lever housing |
| | 1 052598 GASKET, case cover |
| | 1 623177 GASKET, transmission to steering clutch housing |
| ------ | LEVER KIT, pressure plate (See page 289) |
| ------ | LINING KITS, brake band (See BRAKES section) |
| ------ | LUBRICATION KIT, steering clutch throwout bearing (See first type STEERING CLUTCHES) |
| 621665 | PIN KIT, shovel linkage (Required on shovels prior to serial No. 155 when making initial change to new type bucket with brackets for square head pins) |
| | 2 626820 PIN, dump link, front |
| | 2 626821 PIN, bucket pivot, short |
| | 2 626845 PIN, bucket pivot, long |
| | 6 3013568 PIN, retaining, bucket pivot pins |
| | 6 900810 PIN, cotter, 3/16" x 1-1/4" |
| ------ | PIPING AND ADAPTER KIT (See SHOVEL PORTABLE FILTER) |
| 4385697 | PISTON AND SLEEVE KIT (For 1 cylinder only)(Tractors prior to serial No. 11001)(844 series engines) |
| | 2 4253643 RETAINER, piston pin |
| | 1 4369871 PIN, piston |
| | 1 4371678 PISTON |
| | 1 4379178 O-RING, cylinder sleeve |
| | 1 4379277 RING SET, piston |
| | 2 4385485 O-RING, cylinder sleeve |
| | 1 4386282 SLEEVE, cylinder |
| 4388363 | PISTON AND SLEEVE KIT (For 1 cylinder only)(Tractors serial No. 11001 and up)(21000 series engine) |
| | 2 4253643 RETAINER, piston pin |
| | 1 4379178 O-RING, cylinder sleeve |
| | 1 4385424 PIN, piston |
| | 2 4385485 O-RING, cylinder sleeve |
| | 1 4385734 PISTON |
| | 1 4386282 SLEEVE, cylinder |
| | 1 4388359 RING SET, piston |
| ------ | REPAIR KIT, lift and dump cylinders (See pages 607 and 611) |
| ------ | RING SETS (See PISTON AND CONNECTING ROD section) |
| ------ | RING SET, snap, shovel hydraulic pump (see page 617) |
| ------ | SEAL KIT (See FINAL DRIVE OUTBOARD BEARING AND SEAL) |
| ------ | SEAL KIT (See FINAL DRIVE SPROCKET, SHAFT AND GEAR) |
| ------ | SEAL KIT (See TRACK IDLER) |
| ------ | SEAL KIT (See TRACK SUPPORTING ROLLER) |
| ------ | SEAL KIT (See TRUCK WHEELS) |

# PACKAGED PARTS

| PACKAGE NUMBER | DESCRIPTION |
|---|---|
| ------ | SEAL KIT, torque converter fluid (See page 297) |
| ------ | TRANSFER KIT (See PAINTING AND MARKING) |
| ------ | TRANSMISSION KIT , low speed reverse changeover (See TRANSMISSION) |
| 4387457 | TURBOCHARGER CHANGEOVER KIT (Applicable to 21000 series engines prior to serial No. 21-3952) |

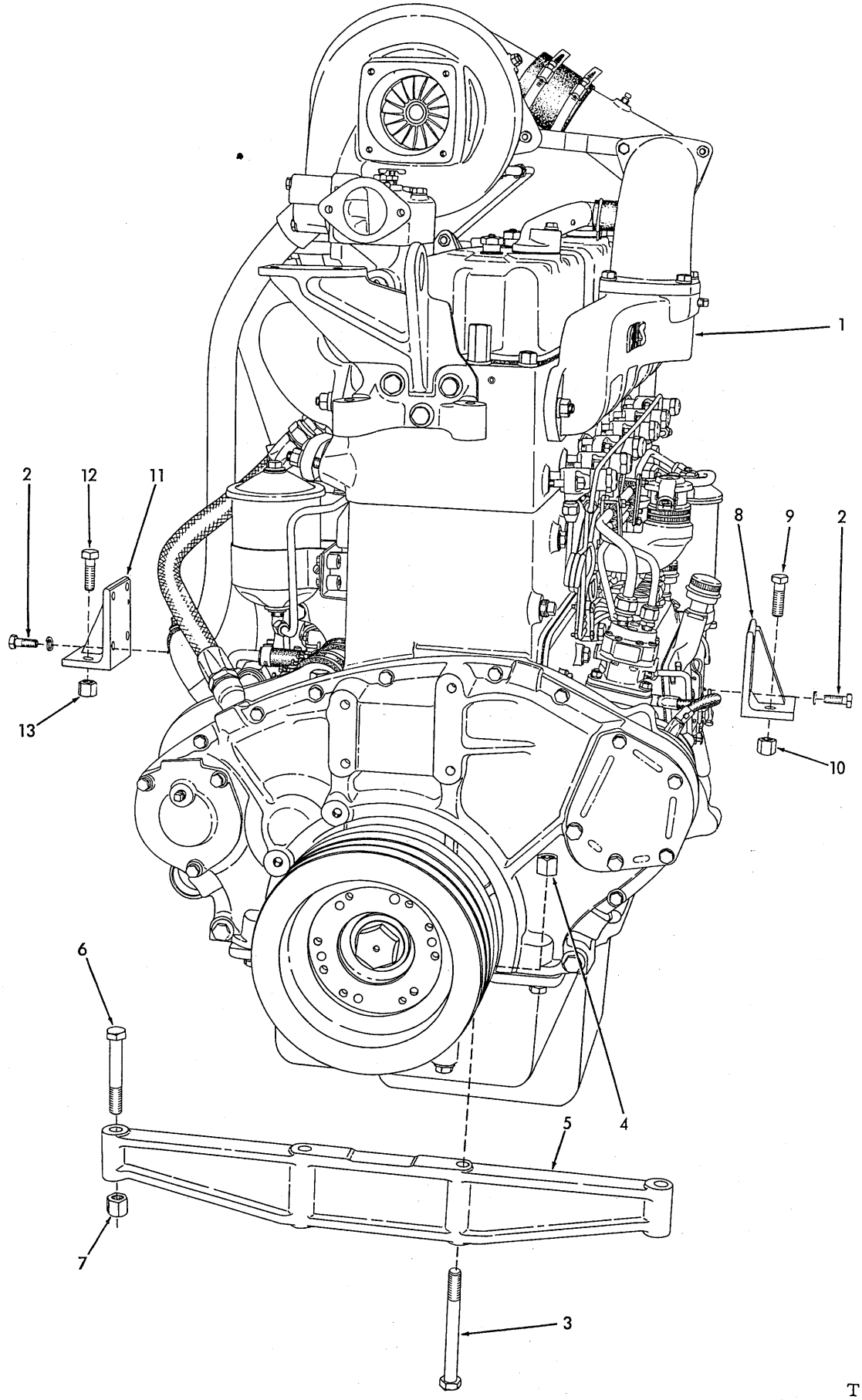
| | | |
|---|---|---|
| 1 | 4254646 | CLIP, oil supply hose |
| 3 | 4254968 | CLAMP, hose, oil drain line |
| 1 | 4254991 | CLAMP, hose, oil drain line |
| 2 | 4255348 | CLAMP, hose, air intake elbow |
| 1 | 4310257 | GASKET, oil drain line elbow |
| 1 | 4335647 | GASKET, oil supply line flange |
| 1 | 4335649 | GASKET, oil drain line tube |
| 1 | 4336558 | GASKET, turbocharger to exhaust manifold |
| 1 | 4339535 | STUD, turbocharger attaching |
| 2 | 4361551 | GASKET, air intake elbow to manifold |
| 1 | 4371027 | GASKET, timing gear housing hole cover |
| 1 | 4375501 | COVER, timing gear housing hole |
| 1 | 4379672 | ELBOW, oil drain line |
| 1 | 4379723 | ADAPTOR, oil drain line |
| 4 | 4385387 | NUT, turbocharger attaching stud |
| 1 | 4385412 | BRACKET, oil supply hose |
| 1 | 4386231 | SPACER, air intake elbow |
| 1 | 4386233 | HOSE, exhaust pipe elbow |
| 1 | 4386234 | TUBE, oil drain line, upper |
| 1 | 4386236 | TUBE, oil drain line, lower |
| 1 | 4386237 | FLANGE, oil supply line |
| 1 | 4386238 | HOSE ASSEMBLY, oil supply line |
| 1 | 4386256 | ADAPTOR, exhaust pipe hose |
| 1 | 4386559 | ELBOW, exhaust pipe |
| 1 | 4386592 | HOSE, air intake elbow to turbocharger |
| 1 | 4386611 | ELBOW, air intake |
| 1 | 4387014 | MANIFOLD, exhaust, center section |
| 1 | 4387867 | HOSE, oil drain line |
| 1 | 4389023 | TURBOCHARGER ASSEMBLY |
| 1 | 903628 | CAPSCREW, 3/8"NC x 5/8" |
| 1 | 903629 | CAPSCREW, 3/8"NC x 3/4" |
| 4 | 903640 | CAPSCREW, 1/2"NC x 2" |
| 2 | 903775 | CAPSCREW, 3/8"NC x 7/8" |
| 8 | 904206 | LOCKWASHER, 3/8" |
| 10 | 904208 | LOCKWASHER, 1/2" |
| 1 | 910324 | NUT, 3/8"NC |
| 4 | 913544 | WASHER, plain |
| 2 | 914499 | CAPSCREW, 3/8"NC x 1-5/8" |
| 2 | 915408 | CAPSCREW, 3/8"NC x 3/4" |
| 2 | 915666 | CAPSCREW, 1/2"NC x 1-3/8" |
| 1 | 919063 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 4 | 919230 | CAPSCREW, 1/2"NC x 1-3/8" |
| 1 | 919840 | PLUG, pipe, hex-hd., 1/4"NPT |




ENGINE AND MOUNTING

USAGE: Tractors prior to serial No. 9001 (HDS-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | ENGINE ASSEMBLY (Not available. Order Engine Assembly and conversion items per Parts Bulletin CM-323) |
| 2 | 035733 | 8 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 3 | 023614 | 2 | CAPSCREW, 5/8"NF x 5-3/4" |
| 4 | 072366 | 2 | NUT, high, 5/8"NF |
| 5 | 080809 | 1 | HANGER, engine supporting, front |
| 6 | 070299 | 2 | CAPSCREW, 5/8"NF x 4" |
| 7 | 072366 | 2 | NUT, high, 5/8"NF |
| 8 | 081742 | 1 | BRACKET, engine supporting, left rear |
| 9 | 035229 | 2 | CAPSCREW, 5/8"NF x 2" |
| 10 | 072366 | 2 | NUT, high, 5/8"NF |
| 11 | 081742 | 1 | BRACKET, engine supporting, right rear |
| 12 | 089130 | 2 | CAPSCREW, drilled-end, 5/8"NF x 1-3/4" |
| | 912840 | 2 | NUT, slotted, 5/8"NF |
| | 900806 | 2 | PIN, cotter, 1/8" x 1" |

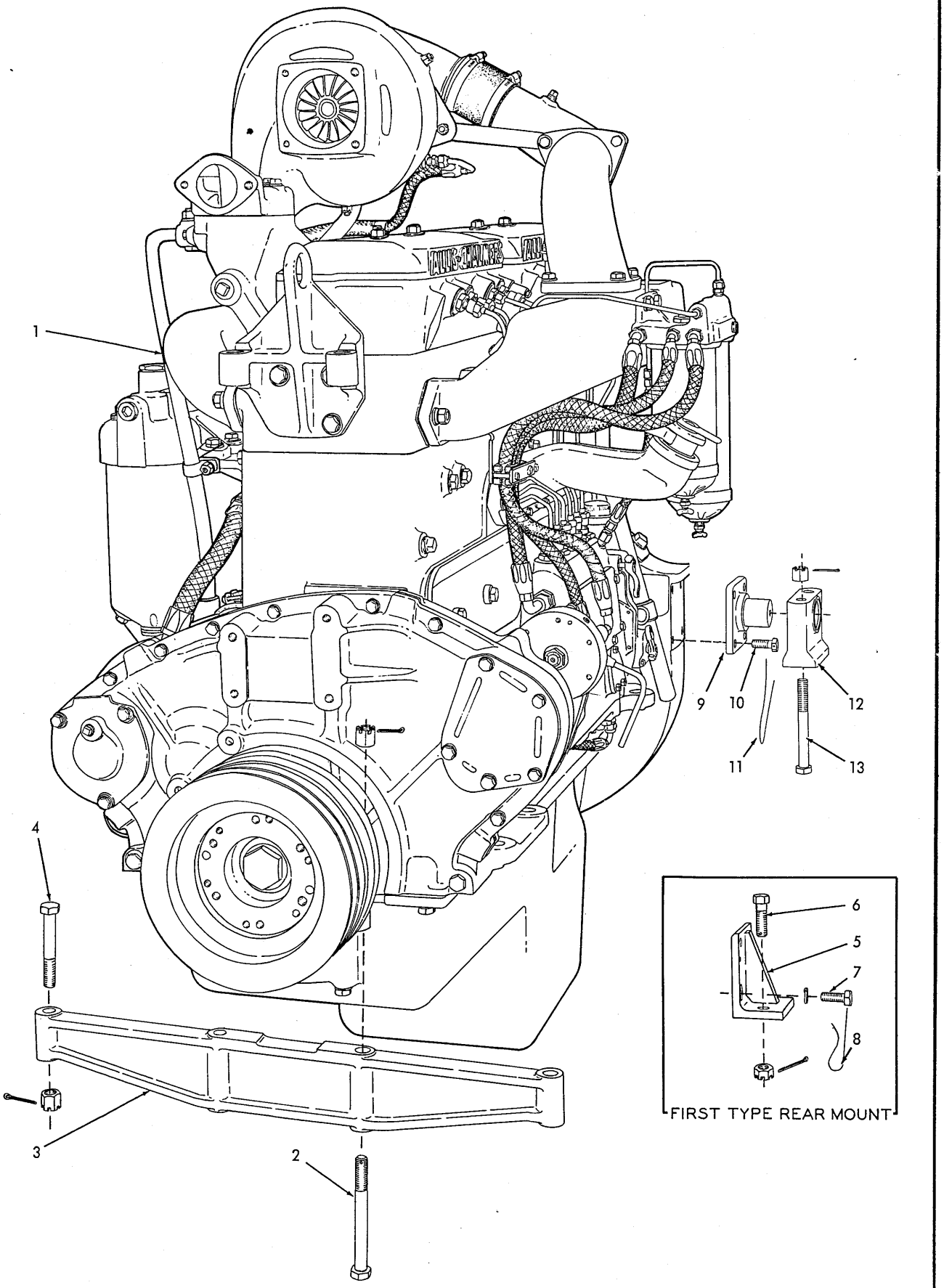



ENGINE AND MOUNTING (Second type)

# ENGINE AND MOUNTING

USAGE: Tractors serial No. 9001 thru No. 11000 (HDT-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | ENGINE ASSEMBLY (Not available. Order Engine Assembly and conversion items per Parts Bulletin CM-323) |
| 2 | 035440 | 8 | CAPSCREW, 5/8"NC x 1-1/2" |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| 3 | 023614 | 2 | CAPSCREW, 5/8"NF x 5-3/4" |
| 4 | 072366 | 2 | NUT, high, 5/8"NF |
| 5 | 080809 | 1 | HANGER, engine supporting, front end |
| 6 | 070299 | 2 | CAPSCREW, 5/8"NF x 4" |
| 7 | 072366 | 2 | NUT, high, 5/8"NF |
| 8 | 092455 | 1 | BRACKET, engine supporting, left rear |
| 9 | 012742 | 2 | CAPSCREW, 3/4"NF x 2-1/4" |
| 10 | 012767 | 2 | NUT, high, 3/4"NF |
| 11 | 092456 | 1 | BRACKET, engine supporting, right rear |
| 12 | 012742 | 2 | CAPSCREW, 3/4"NF x 2-1/4" |
| 13 | 012767 | 2 | NUT, high, 3/4"NF |




ENGINE AND MOUNTING (Third type)

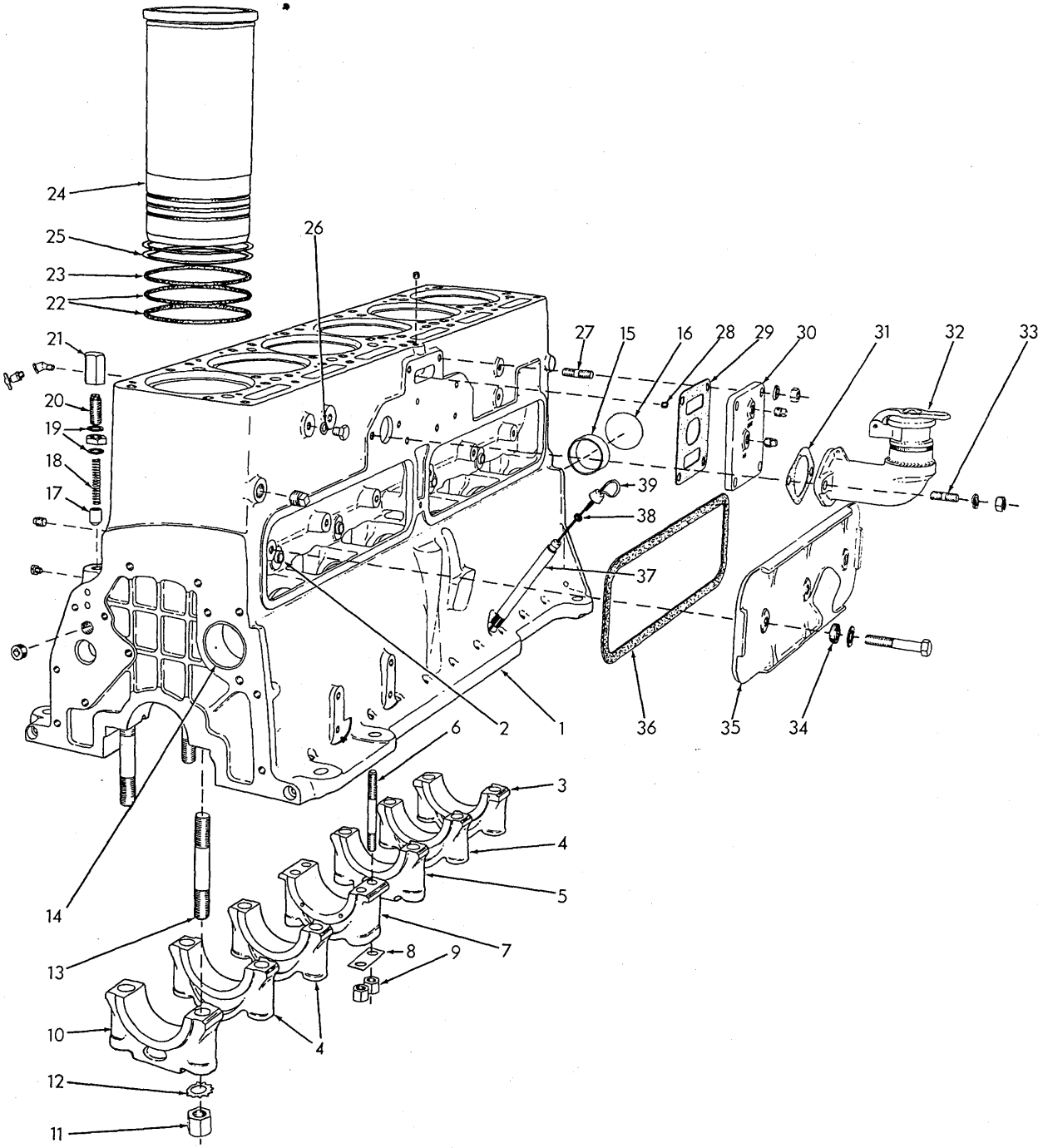
T-19641

# ENGINE AND MOUNTING

USAGE: Tractors serial No. 11001 and up (21000 series engine)

* Used prior to tractor serial No. 11682
** Effective with tractor serial No. 11682

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | 1 | ENGINE ASSEMBLY (Models HD21A,F)(Not available. Order Engine Assembly and conversion items per Parts Bulletin CM-323) |
| | 4378161 | 1 | 1 | ENGINE ASSEMBLY (Model HD21G)(Used prior to tractor #12441) |
| | 4387422 | - | 1 | ENGINE ASSEMBLY (Model HD21G tractors #12441 and up) |
| | | | | NOTE: Each engine assembly listed above includes oil filters, oil cooler, fuel filter and turbocharger but does not include air cleaner, fan, generator, muffler, starter or the first stage fuel filter element. This element must be added if tractor is not equipped with Special Heavy-duty Fuel Filter. Engines are identical with the exception of the crankshaft pulley. |
| 2 | 023614 | 2 | - | CAPSCREW, engine mounting, front (5/8"NF x 5-3/4")(Used prior to tractor #11614) |
| | 072366 | 2 | - | NUT, high, 5/8"NF |
| | 099061 | 2 | 2 | CAPSCREW, engine mounting, front (drilled-end, 5/8"NF x 5-3/4") (Effective with tractor #11614) |
| | 913280 | 2 | 2 | NUT, high, slotted, 5/8"NF |
| | 900806 | 2 | 2 | PIN, cotter, 1/8" x 1" |
| 3 | 080809 | 1 | 1 | HANGER, engine supporting, front end |
| 4 | 045524 | 2 | - | CAPSCREW, front hanger (5/8"NF x 4-1/2")(Used prior to engine #11614) |
| | 072366 | 2 | - | NUT, high, 5/8"NF |
| | 911044 | 2 | - | NUT, regular, 5/8"NF |
| | 099062 | 2 | 2 | CAPSCREW, front hanger (drilled-end, 5/8"NF x 4")(Effective with tractor #11614) |
| | 913280 | 2 | 2 | NUT, high, slotted, 5/8"NF |
| | 900806 | 2 | 2 | PIN, cotter, 1/8" x 1" |
| 5 | 092455 | 1 | - | BRACKET, rear mounting, left |
| | 096549 | 1 | - | BRACKET, rear mounting, right |
| 6 | 012984 | 4 | - | CAPSCREW, 3/4"NF x 2-3/4" (Used prior to tractor #11374) |
| | 012767 | 4 | - | NUT, high, 3/4"NF (Used prior to tractor #11374) |
| | 911045 | 4 | - | NUT, regular, 3/4"NF (Used prior to tractor #11374) |
| | 098199 | 4 | - | CAPSCREW, drilled-end, 3/4"NF x 1-3/4" (Effective with tractor #11374) |
| | 912331 | 4 | - | NUT, slotted, 3/4"NF (Effective with tractor #11374) |
| | 900808 | 4 | - | PIN, cotter, 1/8" x 1-1/2" (Effective with tractor #11374) |
| 7 | 023619 | 8 | - | CAPSCREW, drilled-hd., 5/8"NC x 1-1/2" |
| | 904209 | 8 | - | LOCKWASHER, 5/8" |
| 8 | 023633 | 4 | - | WIRE, locking, 1/16" x 12" |
| 9 | 099307 | - | 1 | TRUNNION, rear mounting, left side |
| | 099308 | - | 1 | TRUNNION, rear mounting, right side |
| 10 | 023619 | - | 8 | CAPSCREW, drilled-hd., 5/8"NC x 1-1/2" |
| 11 | 023633 | - | 4 | WIRE, locking, 1/16" x 12" |
| 12 | 099309 | - | 2 | BRACKET, engine supporting, rear |
| 13 | 099336 | - | 4 | CAPSCREW, drilled-end, 3/4"NF x 6-1/2" |
| | 910879 | - | 4 | NUT, high, slotted, 3/4"NF |
| | 900808 | - | 4 | PIN, cotter, 1/8" x 1-1/2" |




T-13105

CYLINDER BLOCK (First type)

# CYLINDER BLOCK

USAGE: Tractors prior to serial No. 11001 (844 series engines)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4374324 | 1 | BLOCK ASSEMBLY, cylinder (Includes items 3 thru 16, 26, 28 and hardware indented below)(Engines prior to #81500. Uses pressed-in idler gear shaft) |
| | 4373969 | 1 | BLOCK ASSEMBLY, cylinder (Includes items 2 thru 15, 26, 28 and hardware indented below)(Effective with engine #81500. Uses flanged idler gear shaft) |
| | 919134 | 6 | PLUG, pipe, hex-hd., 1/8"NPT (oil gallery) |
| | 917673 | 1 | PLUG, pipe, socket-hd., 1/8"NPT (top of block) |
| | 918850 | 2 | PLUG, pipe, hex-socket, 1/4"NPT (water holes) |
| | 904223 | 2 | PLUG, pipe, ctsk-hd., 1/2"NPT (oil gallery) |
| | 901654 | 1 | PLUG, pipe, sq-hd., 1/2"NPT (water hole) |
| | 907058 | 1 | ELBOW, street, 45°, 1/4"NPT (water-drain) |
| | 644417 | 1 | COCK, drain, 1/4"NPT |
| 2 | ------ | 4 | DOWEL, valve lifter bracket (See VALVE OPERATING MECHANISM) |
| 3 | 4377325 | 1 | * CAP, main bearing, rear |
| 4 | 4377321 | 3 | * CAP, main bearing, intermediate |
| 5 | 4377322 | 1 | * CAP, main bearing, intermediate (No. 5) |
| 6 | 4375668 | 4 | STUD, center main bearing (5/8" diam.) |
| 7 | 4377324 | 1 | * CAP, main bearing, center |
| 8 | 4360051 | 2 | PLATE, locking, center main bearing stud nut |
| 9 | 4360048 | 4 | NUT, center main bearing stud (5/8"NF) |
| 10 | 4377320 | 1 | * CAP, main bearing, front |
| 11 | 4303199 | 12 | NUT, main bearing stud (7/8"NF) |
| 12 | 4372515 | 12 | LOCKWASHER, main bearing stud nut |
| 13 | 4375679 | 8 | STUD, main bearing (7/8" diam., 5-3/4" long) |
| | 4375681 | 4 | STUD, main bearing (7/8" diam., 6" long) |
| 14 | 4660389 | 1 | BEARING, camshaft, front |
| 15 | 4660440 | 3 | BEARING, camshaft, rear and intermediate |
| 16 | 4374560 | 1 | PLUG, camshaft hole (Used prior to tractor #9001) |
| 17 | 4500230 | 1 | PISTON, oil pressure regulating valve |
| 18 | 4660358 | 1 | SPRING, oil pressure regulating valve |
| 19 | 4113897 | 2 | □ GASKET, regulating valve nut (Original equipment. Not used with SCREW 4389058) |

□ Also see PACKAGED PARTS

* Replacement bearing caps are semi-finished and must be line-bored after installing

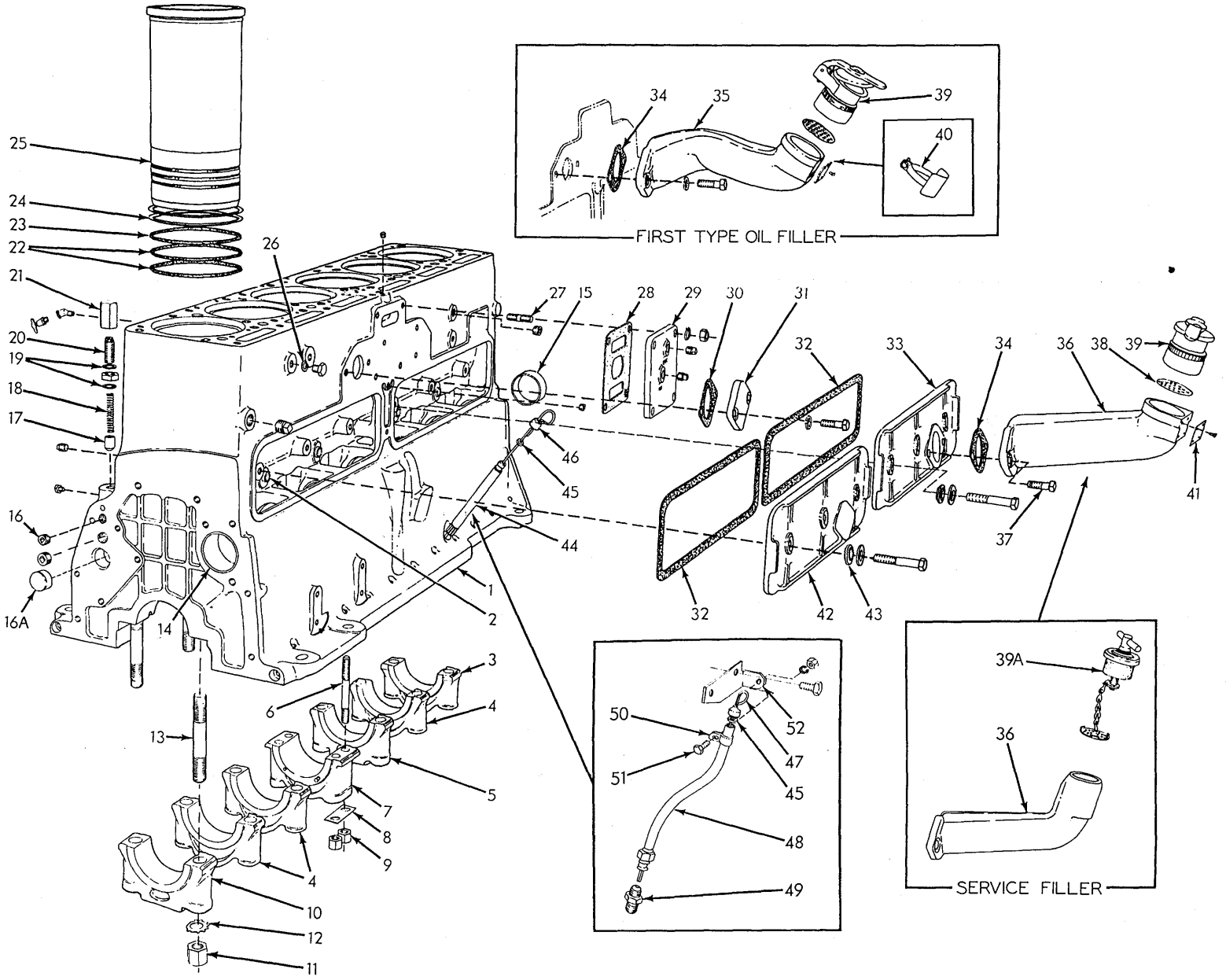
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## CYLINDER BLOCK (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 20 | ------ | 1 | SCREW, oil pressure regulating valve (Original equipment. Order SCREW 4389058) |
| | 4389058 | 1 | SCREW, oil pressure regulating valve (Nylok insert)(Service replacement) |
| | 910847 | 1 | NUT, jam, 3/4"NF |
| 21 | ------ | 1 | NUT, cap, oil pressure regulating valve (Original equipment. Order SCREW 4389058) |
| 22 | 4379178 | 6 | O-RING, cylinder sleeve (Black. For lower groove)(For early type sleeves with tear-drop grooves) |
| | 4385485 | 12 | □ O-RING, cylinder sleeve (Red. For lower grooves)(Not for early type sleeves with tear-drop grooves) |
| 23 | 4379178 | 6 | □ O-RING, cylinder sleeve (Upper groove) |
| 24 | 4386282 | 6 | □ SLEEVE, cylinder |
| 25 | 4368204 | - | SHIM, cylinder sleeve (.005" thick) |
| | 4369001 | - | SHIM, cylinder sleeve (.008" thick) |
| | 4368205 | - | SHIM, cylinder sleeve (.010" thick) |
| | 4368206 | - | SHIM, cylinder sleeve (.015" thick) |
| | 4369002 | - | SHIM, cylinder sleeve (.020" thick) |
| | | | Use as required when re-machining block |
| 26 | 4119937 | 2 | GASKET, plugging screw |
| | 917177 | 2 | CAPSCREW, 1/2"NC x 1/2" |
| 27 | 4300570 | 4 | STUD, cover plate |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 910195 | 4 | NUT, 1/2"NF |
| 28 | 4005193 | 2 | RESTRICTOR, rocker oil supply |
| 29 | 4660517 | 1 | □ GASKET, cylinder block cover plate |
| 30 | 4364271 | 1 | PLATE, cover, cylinder block hole |
| | 901652 | 2 | PLUG, pipe, 1/4"NPT |
| 31 | 4310257 | 1 | □ GASKET, oil filler pipe |
| 32 | 4371554 | 1 | PIPE ASSEMBLY, oil filler (Includes cap) |
| 33 | 4300570 | 2 | STUD, oil filler pipe |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 910195 | 2 | NUT, 1/2"NF |
| 34 | 4364131 | 6 | □ WASHER, push rod cover capscrew (rubber) |
| 35 | 4379179 | 2 | COVER, push rod |
| | 903642 | 6 | CAPSCREW, 1/2"NC x 2-1/2" |
| | 900818 | 6 | WASHER, plain, U.S. std., 1/2" |
| 36 | 4660564 | 2 | □ GASKET, push rod cover |
| 37 | 4371359 | 1 | ADAPTER, oil level gauge |
| 38 | 4506607 | 1 | SEAL, oil level gauge |
| 39 | 4379241 | 1 | GAUGE ASSEMBLY, oil level (Includes item 38) |

□ Also see PACKAGED PARTS

MEMO




CYLINDER BLOCK (Second type)

T-30899

# CYLINDER BLOCK

USAGE: Tractors serial No. 11001 and up (21000 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386459 | 1 | BLOCK ASSEMBLY, cylinder (Includes items 2 thru 16 and hardware indented below)(If for engines prior to #21-3618 also order 1 MANIFOLD 4385541, 1 PLUG 901653 and 4 GASKETS 4385520) |
| | ------ | 2 | DOWEL, flywheel housing (See FLYWHEEL AND HOUSING) |
| | 919134 | 2 | PLUG, pipe, hex-hd., 1/8"NPT |
| | 919840 | 5 | PLUG, pipe, hex-hd., 1/4"NPT |
| | 920333 | 1 | PLUG, pipe, hex-hd., 3/8"NPT |
| | 920416 | 1 | PLUG, pipe, hex-hd., 1/2"NPT |
| | 917673 | 1 | PLUG, pipe, hex-socket, 1/8"NPT |
| | 918850 | 2 | PLUG, pipe, hex-socket, 1/4"NPT |
| | 918851 | 2 | PLUG, pipe, hex-socket, 3/4"NPT |
| | 904224 | 2 | PLUG, pipe, sq-socket, 3/4"NPT |
| | 644417 | 1 | COCK, drain, 1/4"NPT |
| | 907058 | 1 | ELBOW, street, 45°, 1/4"NPT (water drain)(Used prior to engine #21-3995) |
| 2 | ------ | 4 | DOWEL, valve lifter bracket (See VALVE OPERATING MECHANISM) |
| 3 | 4377325 | 1 | * CAP, main bearing, rear |
| 4 | 4377321 | 3 | * CAP, main bearing, intermediate |
| 5 | 4377322 | 1 | * CAP, main bearing, intermediate (No. 5) |
| 6 | 4375668 | 4 | STUD, center main bearing (5/8" diam.) |
| 7 | 4379666 | 1 | * CAP, main bearing, center |
| | ------ | 4 | PIN, dowel, thrust flange (See CRANKSHAFT) |
| 8 | 4360051 | 2 | PLATE, locking, center main bearing stud nut |
| 9 | 4360048 | 4 | NUT, center main bearing stud (5/8"NF) |
| 10 | 4377320 | 1 | * CAP, main bearing, front |
| 11 | 4303199 | 12 | NUT, main bearing stud (7/8"NF) |
| 12 | 4372515 | 12 | LOCKWASHER, main bearing stud nut |
| 13 | 4375679 | 8 | STUD, main bearing (7/8" diam., 5-3/4" long) |
| | 4375681 | 4 | STUD, main bearing (7/8" diam., 6" long) |
| 14 | 4660389 | 1 | BEARING, camshaft, front |
| | 4660440 | 2 | BEARING, camshaft, intermediate |
| 15 | 4660440 | 1 | BEARING, camshaft, rear (1-3/8" long)(Used prior to engine #21-3943) |
| | 4660389 | 1 | BEARING, camshaft, rear (1-7/8" long)(Effective with engine #21-3943) |
| 16 | 4389943 | 1 | RESTRICTOR, oil |
| 16A | 4387189 | 1 | PLUG, crankcase (Effective with engine #21-3995)(Closes hole formerly used for timing idler gear shaft) |
| 17 | 4500230 | 1 | PISTON, oil pressure regulating valve |
| 18 | 4660358 | 1 | SPRING, oil pressure regulating valve |

* Replacement bearing caps are semi-finished and must be line-bored after installing

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 19 | 4113897 | 2 | □ GASKET, regulating valve nut (Original equipment. Not used with SCREW 4389058) | |
| 20 | ------ | 1 | SCREW, oil pressure regulating valve (Original equipment. Order SCREW 4389058) | |
| | 4389058 | 1 | SCREW, oil pressure regulating valve (Nylok insert)(Service replacement) | |
| | 910847 | 1 | NUT, jam, 3/4"NF | |
| 21 | ------ | 1 | NUT, cap, oil pressure regulating valve (Original equipment) (Order SCREW 4389058) | |
| 22 | 4379178 | 6 | O-RING, cylinder sleeve (Black. For lower groove)(Used prior to engine #21-3141. For early type sleeves with tear-drop grooves) | |
| | 4385485 | 12 | □ O-RING, cylinder sleeve (Red. For lower grooves)(Effective with engine #21-3141. Not for early type sleeves with tear-drop grooves) | |
| 23 | 4379178 | 6 | □ O-RING, cylinder sleeve (For upper groove) | |
| 24 | 4379742 | - | SHIM, cylinder sleeve (.002" thick) | Use as required when re-machining block |
| | 4368204 | - | SHIM, cylinder sleeve (.005" thick) | |
| | 4369001 | - | SHIM, cylinder sleeve (.008" thick) | |
| | 4368205 | - | SHIM, cylinder sleeve (.010" thick) | |
| | 4368206 | - | SHIM, cylinder sleeve (.015" thick) | |
| | 4369002 | - | SHIM, cylinder sleeve (.020" thick) | |
| 25 | 4386282 | 6 | □ SLEEVE, cylinder | |
| 26 | 4119937 | 2 | GASKET, plugging screw | |
| | 917177 | 2 | CAPSCREW, 1/2"NC x 1/2" | |
| 27 | 4300570 | 4 | STUD, cover plate (Used prior to engine #21-3943) | |
| | 904208 | 4 | LOCKWASHER, 1/2" | |
| | 910195 | 4 | NUT, 1/2"NF | |
| 28 | 4660517 | 1 | □ GASKET, cylinder block cover plate (Used prior to engine #21-3943) | |
| 29 | 4364271 | 1 | PLATE, cover, cylinder block hole (Used prior to engine #21-3943) | |
| | 901652 | 2 | PLUG, pipe, 1/4"NPT | |
| 30 | 4310257 | 1 | GASKET, oil filler hole cover | Used on engines #21-3501 thru #21-3951 |
| 31 | 4331522 | 1 | PLATE, cover, oil filler hole | |
| | 915666 | 2 | CAPSCREW, 1/2"NC x 1-3/8" | |
| | 904208 | 2 | LOCKWASHER, 1/2" | |
| 32 | 4660564 | 2 | □ GASKET, push rod cover (cork)(Used prior to engine #21-3501) | |
| | 4377120 | 2 | GASKET, push rod cover (raybestos)(Effective with engine #21-3501) | |

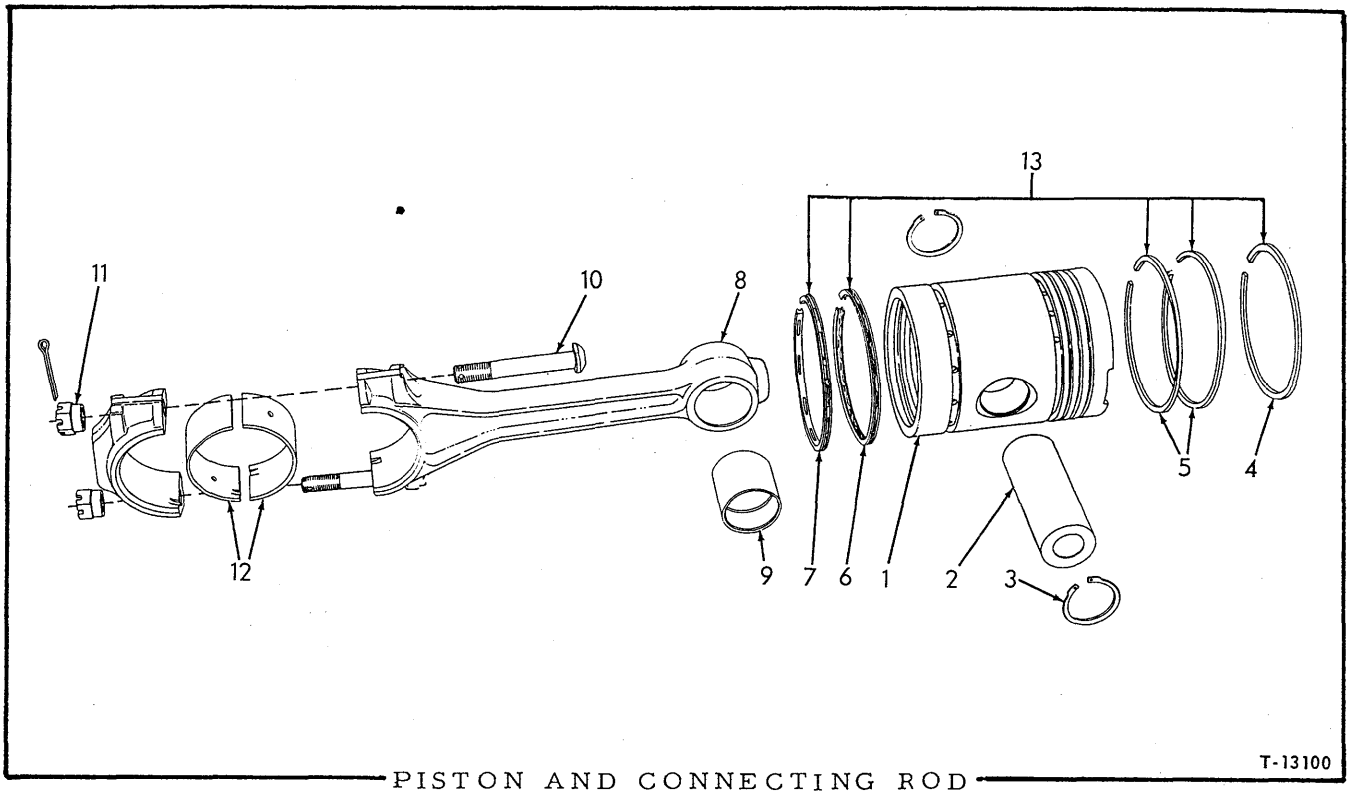
□ Also see PACKAGED PARTS

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## CYLINDER BLOCK (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 33 | 4379179 | 1 | COVER, push rod, rear (Used prior to engine #21-3501) |
| | 4379197 | 1 | COVER, push rod, rear (Effective with engine #21-3501) |
| | 916316 | 3 | CAPSCREW, 1/2"NC x 2-1/2" |
| | 912333 | 3 | WASHER, plain |
| 34 | 4310257 | 1 | □ GASKET, oil filler pipe |
| 35 | 4377021 | 1 | PIPE ASSEMBLY, oil filler (Includes items 38 and 39)(Used prior to engine #21-3501) |
| | 919048 | 2 | CAPSCREW, 1/2"NC x 1-5/8" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 36 | ------ | 1 | ELBOW ASSEMBLY, oil filler (Includes items 38, 39 and 41)(Effective with engine #21-3501. Order 4389040 ELBOW and item 39A) |
| | 4389040 | 1 | ELBOW, oil filler (Service replacement only. Requires CLOSURE ASSEMBLY 4354449) |
| 37 | 4379198 | 2 | CAPSCREW, Nylok, 1/2"NC x1-3/8" |
| 38 | 4335022 | 1 | STRAINER, oil filler |
| 39 | 4366461 | 1 | CAP ASSEMBLY, oil filler (Serviced only as a unit)(Original equipment) |
| 39A | 4354449 | 1 | CLOSURE ASSEMBLY, oil filler (Serviced only as a unit)(Service replacement only. Used with ELBOW 4389040) |
| 40 | 4379291 | 1 | PLATE AND STRAP ASSEMBLY, oil data (Used prior to engine #21-3499) |
| 41 | 4379141 | 1 | PLATE, oil data (Effective with engine #21-3499) |
| | 904516 | 4 | SCREW, drive, #6 x 1/4" |
| 42 | 4389520 | 1 | COVER, push rod, front |
| | 916316 | 3 | CAPSCREW, 1/2"NC x 2-1/2" |
| | 912333 | 3 | WASHER, plain |
| 43 | 4364131 | 6 | WASHER, push rod cover capscrew (rubber)(Used prior to engine #21-3501) |
| | 4376749 | 6 | □ WASHER, push rod cover capscrew (Dynaseal)(Effective with engine #21-3501) |
| 44 | 4371359 | 1 | ADAPTER, oil level gauge (Not used on Model HD21G tractors #12379 and up) |
| 45 | 4506607 | 1 | SEAL, oil level gauge |
| 46 | 4379241 | 1 | GAUGE ASSEMBLY, oil level (Includes item 45)(Not used on Model HD21G tractors #12379 and up) |
| | | | NOTE: Items listed below comprise the SECOND TYPE OIL LEVEL GAUGE used on Model HD21G tractors No. 12379 and up |
| 47 | 645172 | 1 | GAUGE ASSEMBLY, oil level (Includes item 45) |
| 48 | 4349938 | 1 | TUBE ASSEMBLY, oil level gauge (Includes nut) |
| 49 | 4349939 | 1 | ADAPTOR, oil level gauge |
| 50 | 094527 | 1 | CLIP, supporting, oil level gauge tube |
| 51 | 036034 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 52 | 633927 | 1 | BRACKET, supporting, oil level gauge tube (Attaches to throttle assembly) |
| | 916933 | 2 | CAPSCREW, 1/4"NF x 2" |

□ Also see PACKAGED PARTS




PISTON AND CONNECTING ROD

USAGE: Tractors prior to serial No. 11001 (844 series engine)

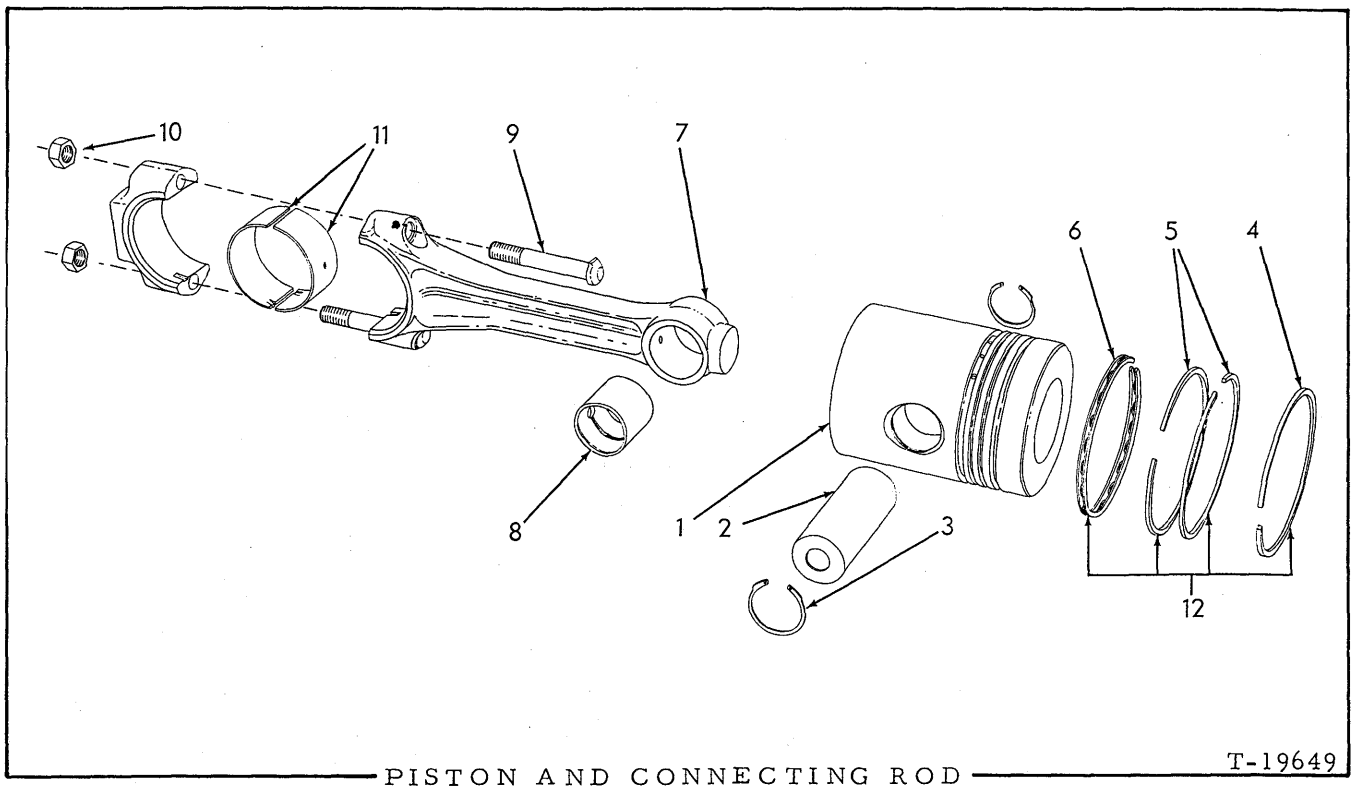
| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | 4371678 | 6 | □ PISTON | |
| 2 | 4369871 | 6 | □ PIN, piston | |
| 3 | 4253643 | 12 | □ RETAINER, piston pin | |
| 4 | 4368336 | 6 | RING, compression (top groove) | See item 13 |
| 5 | 4378376 | 12 | RING, compression (2nd and 3rd grooves) | |
| 6 | 4379270 | 6 | RING, oil control (4th groove) | |
| 7 | 4378377 | 6 | RING, oil control (5th groove) | |
| 8 | 4371112 | 6 | ROD ASSEMBLY, connecting (Includes items 9 thru 11)(Used prior to engine #68237. If complete set is required order 4374856) | |
| | 4374856 | 6 | ROD ASSEMBLY, connecting (Includes items 9 thru 11)(Effective with engine #68237) | |
| 9 | 4377673 | 6 | BUSHING, connecting rod | |
| 10 | 4360867 | 12 | BOLT, connecting rod | |
| 11 | 4385760 | 12 | NUT, connecting rod bolt | |
| | 916245 | 12 | PIN, cotter, 5/32" x 1-1/8" | |

□ Also see PACKAGED PARTS

(Continued)

## PISTON AND CONNECTING ROD (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 12 | 4378357 | 12 | BEARING, connecting rod (standard size) |
| | 4378358 | 12 | BEARING, connecting rod (.010" undersize) |
| | 4378359 | 12 | BEARING, connecting rod (.020" undersize) |
| | 4378360 | 12 | BEARING, connecting rod (.030" undersize) |
| | 4378361 | 12 | BEARING, connecting rod (.040" undersize) |
| 13 | 4379277 | 6 | □RING SET (Consists of items 4 thru 7) |
| | | | □ Also see PACKAGED PARTS |




PISTON AND CONNECTING ROD T-19649

USAGE: Tractors serial No. 11001 and up (21000 series engine)

* Engines prior to serial No. 21-3601
** Engines serial No. 21-3601 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4376615 | 6 | - | PISTON (5-ring)(Used prior to engine #21-3503. If full set required order PISTON 4385734 and RING SET 4388359) |
| | 4379657 | 6 | - | PISTON (4- ring, 7 lb.)(Effective with engine #21-3503. If full set required order PISTON 4385734 and RING SET 4388359) |
| | 4385734 | - | 6 | □PISTON (4-ring, 6-1/2 lb.) |
| 2 | 4385424 | 6 | 6 | □PIN, piston |
| 3 | 4253643 | 12 | 12 | □RETAINER, piston pin |
| 4 | 4376623 | 6 | - | RING, compression (top groove, tapered type) (Used prior to engine #21-3503) — See item 12 |
| | 4379658 | 6 | - | RING, compression (top groove, 1/8" wide) (Effective with engine #21-3503) — See item 12 |
| | ------ | - | 6 | RING, compression (top groove, 1/8" wide, grooved face)(Order item 12) |
| 5 | 4378376 | 12 | - | RING, compression (2nd and 3rd grooves)(See item 12) |
| | ------ | - | 12 | RING, compression (2nd and 3rd grooves, grooved face)(Order item 12) |

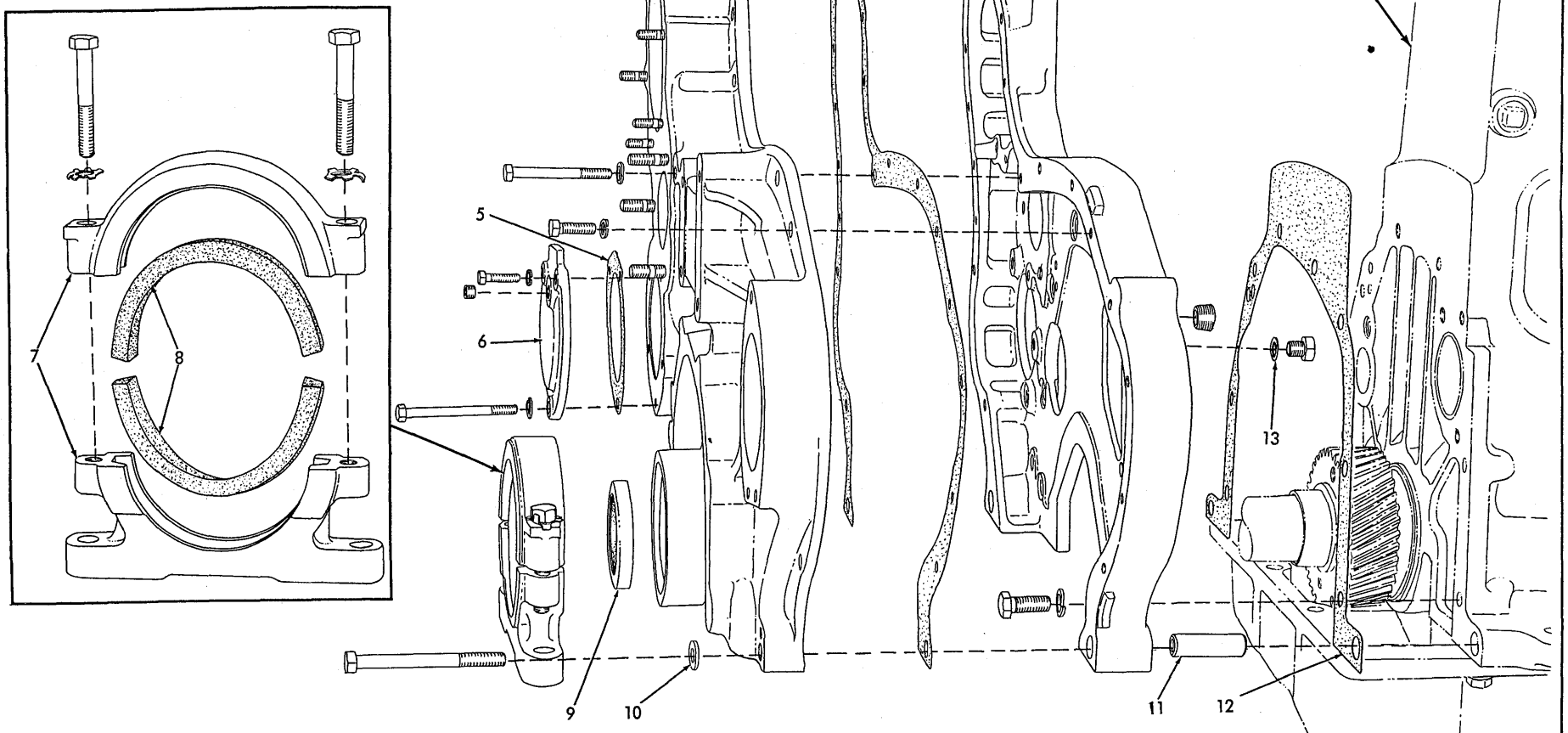
□Also see PACKAGED PARTS

(Continued)

## PISTON AND CONNECTING ROD (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 6 | 4379270 | 6 | - | RING, oil control (4th groove, 19 lb.)(See item 12) |
| | ------ | - | 6 | RING, oil control (4th groove, 26 lb.)(Order item 12) |
| | 4378377 | 6 | - | RING, oil control (5th groove)(Used prior to engine #21-3503)(See item 12) |
| 7 | 4389963 | 6 | 6 | ROD ASSEMBLY, connecting (Includes items 8 thru 10) |
| 8 | 4377673 | 6 | 6 | BUSHING, connecting rod |
| 9 | 4360867 | 12 | 12 | BOLT, connecting rod |
| 10 | 4390011 | 12 | 12 | NUT, connecting rod bolt |
| 11 | 4378357 | 12 | 12 | BEARING, connecting rod (standard size) |
| | 4378358 | 12 | 12 | BEARING, connecting rod (.010" undersize) |
| | 4378359 | 12 | 12 | BEARING, connecting rod (.020" undersize) |
| | 4378360 | 12 | 12 | BEARING, connecting rod (.030" undersize) |
| | 4378361 | 12 | 12 | BEARING, connecting rod (.040" undersize) |
| 12 | 4379276 | 6 | - | RING SET, piston (Consists of items 4 thru 6)(Used prior to engine #21-3503) |
| | 4379662 | 6 | - | RING SET, piston (Consists of items 4 thru 6)(Effective with engine #21-3503) |
| | 4388359 | - | 6 | □RING SET, piston (Consists of items 4 thru 6) |

□Also see PACKAGED PARTS



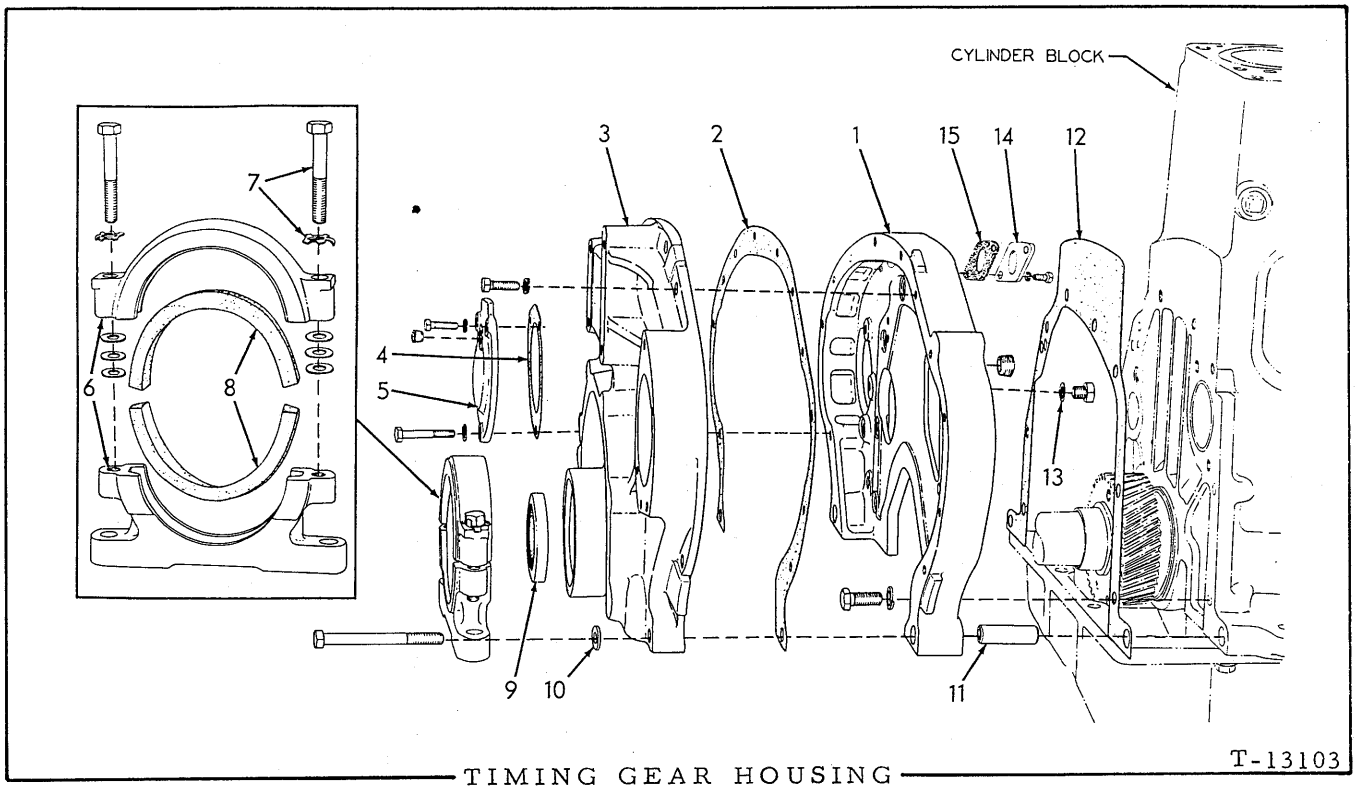

TIMING GEAR HOUSING (First type)

# TIMING GEAR HOUSING

USAGE: Tractors prior to serial No. 9001 (HDS-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4371401 | 1 | HOUSING, timing gear (Used prior to engine #81500) |
| | 4373508 | 1 | HOUSING, timing gear (Effective with engine #81500) |
| | 908944 | 1 | PLUG, pipe, hex-socket, 1/2"NPT |
| | 903638 | 8 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 2 | 4371117 | 2 | STUD, gear cover (3/8"NC x 3/8"NF x 3-3/4") |
| | 910123 | 2 | NUT, 3/8"NF |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 3 | 4373049 | 1 | □ GASKET, gear housing cover |
| 4 | 4371583 | 1 | COVER, timing gear housing (Used prior to engine #81500) |
| | 4373509 | 1 | COVER, timing gear housing (Effective with engine #81500) |
| | 910211 | 5 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 906995 | 2 | CAPSCREW, 3/8"NC x 3-1/4" |
| | 903776 | 2 | CAPSCREW, 3/8"NC x 3-1/2" (Also attach water pump gear cover) |
| | 905669 | 2 | CAPSCREW, 1/2"NC x 4-1/2" |
| | 904206 | 9 | LOCKWASHER, 3/8" |
| 5 | 4361740 | 1 | □ GASKET, water pump gear cover |
| 6 | 4374588 | 1 | COVER, water pump gear |
| | 915739 | 1 | PLUG, pipe, ctsk-hd., 3/8"NPT (early units) |
| | 907070 | 1 | PLUG, pipe, ctsk-hd., 1/4"NPT (late units) |
| | 903630 | 1 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 7 | 4364865 | 1 | BRACKET, engine mounting (Includes cap) |
| | 4254891 | 2 | CAPSCREW, 1/2"NC x 2-1/2" |
| | 4252682 | 2 | LOCKWASHER |
| | 916009 | 10 | WASHER, plain (1/32" thick. Use as required) |
| 8 | 4364864 | 2 | LINER, engine mounting bracket |
| 9 | 4253838 | 1 | SEAL, oil, crankshaft |
| 10 | 4371445 | 2 | WASHER, plain, housing cover capscrew (1/2" hole) |
| 11 | 4371444 | 2 | DOWEL, hollow, gear housing |
| 12 | 4660492 | 1 | □ GASKET, gear housing |
| 13 | 4119937 | 1 | GASKET, plugging capscrew (copper) |
| | 917177 | 1 | CAPSCREW, 1/2"NC x 1/2" |

□ Also see PACKAGED PARTS




TIMING GEAR HOUSING

USAGE: Tractors serial No. 9001 and up (HDT-844 and 21000 series engines)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4376608 | 1 | HOUSING |
| | 908944 | 1 | PLUG, pipe, hex-socket, 1/2"NPT |
| | 916311 | 8 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 2 | 4376609 | 1 | □ GASKET, gear housing cover |
| 3 | 4387723 | 1 | COVER, timing gear housing |
| | 916321 | 2 | CAPSCREW, 1/2"NC x 4-1/2" |
| | 919224 | 7 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 916274 | 2 | CAPSCREW, 3/8"NC x 2-1/4" (Used prior to engine #21-3995) |
| | 904206 | 9 | LOCKWASHER, 3/8" |
| 4 | 4361740 | 1 | □ GASKET, water pump gear cover (Used prior to engine #21-3995) |
| 5 | 4374588 | 1 | COVER, water pump gear (Used prior to engine #21-3995) |
| | 916271 | 1 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 907070 | 1 | PLUG, pipe, ctsk-hd., 1/4"NPT |
| 6 | 4364865 | 1 | BRACKET, engine mounting (Includes cap) |
| | 916009 | 10 | WASHER, plain (1/32" thick. Use as required) |
| 7 | 4254891 | 2 | CAPSCREW, 1/2"NC x 2-1/2" |
| | 4252682 | 2 | LOCKWASHER |
| 8 | 4364864 | 2 | LINER, engine mounting bracket (rubber)(Used prior to engine #21-3208) |
| | 4336491 | 2 | LINER, engine mounting bracket (nylon)(Effective with engine #21-3208) |

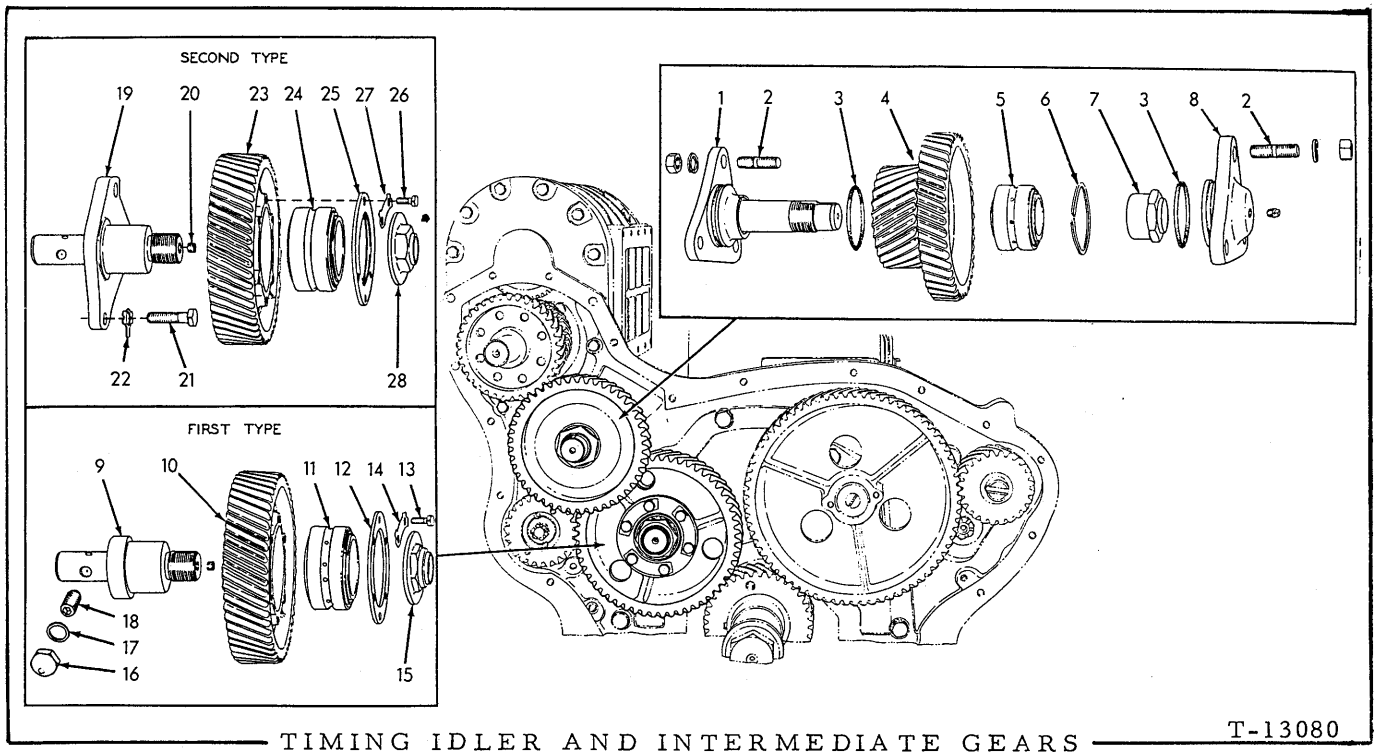
□ Also see PACKAGED PARTS

(Continued)

## TIMING GEAR HOUSING (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 9 | 4253838 | 1 | SEAL, oil, crankshaft (Used prior to engine #21-3879) |
| | 4338507 | 1 | SEAL, oil,crankshaft (Effective with engine (21-3879) |
| 10 | 4371445 | 2 | WASHER, plain, housing cover capscrew (1/2" hole) |
| 11 | 4371444 | 2 | DOWEL, hollow, gear housing |
| 12 | 4660492 | 1 | □ GASKET, gear housing |
| 13 | 4119937 | 1 | GASKET, plugging capscrew (copper) |
| | 919229 | 1 | CAPSCREW, 1/2"NC x 1/2" |
| 14 | 4375501 | 1 | COVER, gear housing hole (Effective with engine #21-3952) |
| | 915408 | 2 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 15 | 4371027 | 1 | GASKET, gear housing cover (Effective with engine #21-3952) |

□ Also see PACKAGED PARTS




TIMING IDLER AND INTERMEDIATE GEARS T-13080

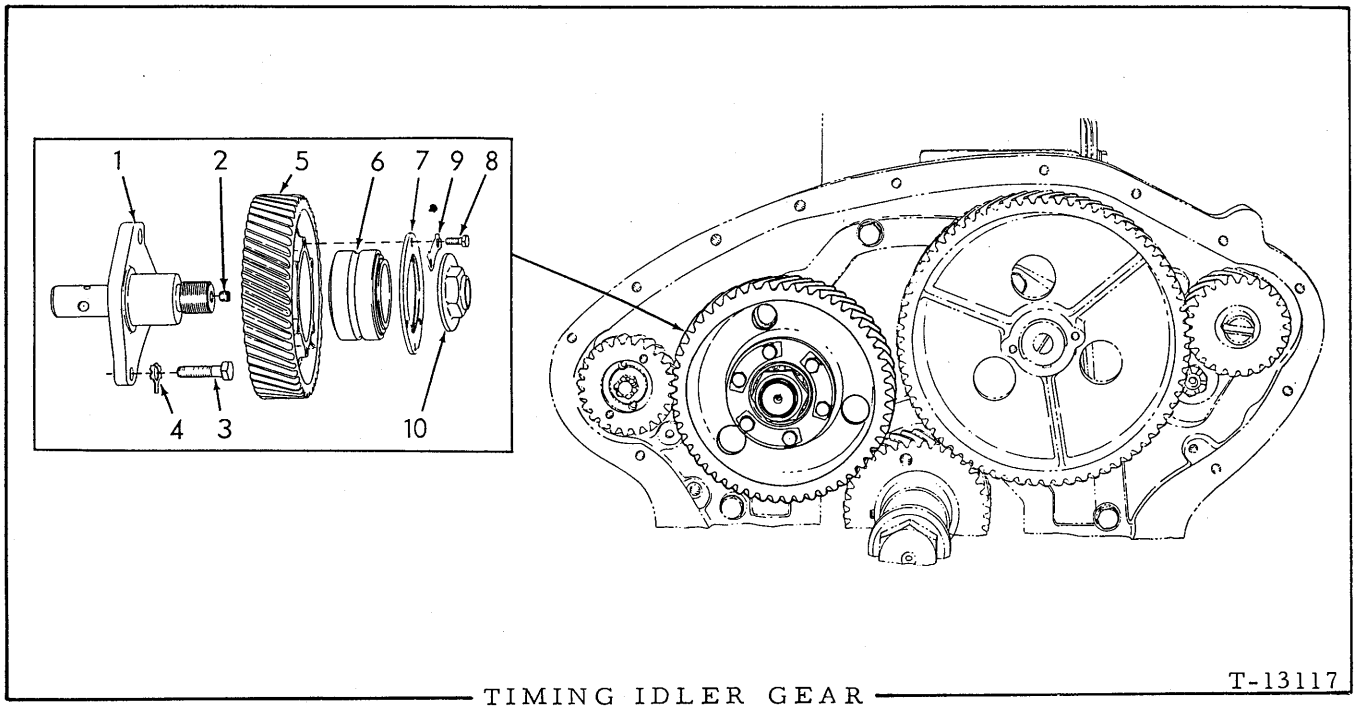
USAGE: Tractors prior to serial No. 9001 (HDS-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4373227 | 1 | SUPPORT, intermediate gear, rear |
| 2 | 4301098 | 6 | STUD, intermediate gear support |
| | 910195 | 6 | NUT, 1/2"NF |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 3 | 923814 | 2 | □ O-RING, intermediate gear support |
| 4 | 4375773 | 1 | GEAR ASSEMBLY, intermediate (Includes items 5 and 6) |
| 5 | ------ | 1 | BEARING, roller (Not serviced separately) |
| 6 | 4254052 | 1 | RING, snap, bearing retaining |
| 7 | 4371413 | 1 | NUT, intermediate support shaft |
| 8 | 4371414 | 1 | SUPPORT, intermediate gear, front |
| | 901651 | 1 | PLUG, pipe, 1/8"NPT |
| | | | NOTE: Items 9 thru 18 comprise the FIRST TYPE IDLER GEAR ARRANGEMENT used prior to engine serial No. 81500. |
| 9 | ------ | 1 | SHAFT, idler gear (No oil passage)(Used prior to engine #80932. Replace with SHAFT ASSEMBLY 4373326, GEAR ASSEMBLY 4375919 and NUT 4373330) |
| | 4373326 | 1 | SHAFT ASSEMBLY, idler gear (Standard size. Includes PLUG 910231)(Effective with engine #80932) |
| | 4375368 | 1 | SHAFT ASSEMBLY, idler gear (1/8" oversize. Hole in cylinder block must be rebored to permit installing) |
| | 910231 | 1 | PLUG, pipe, hex-socket, 1/8"NPT |

□ Also see PACKAGED PARTS

(Continued)

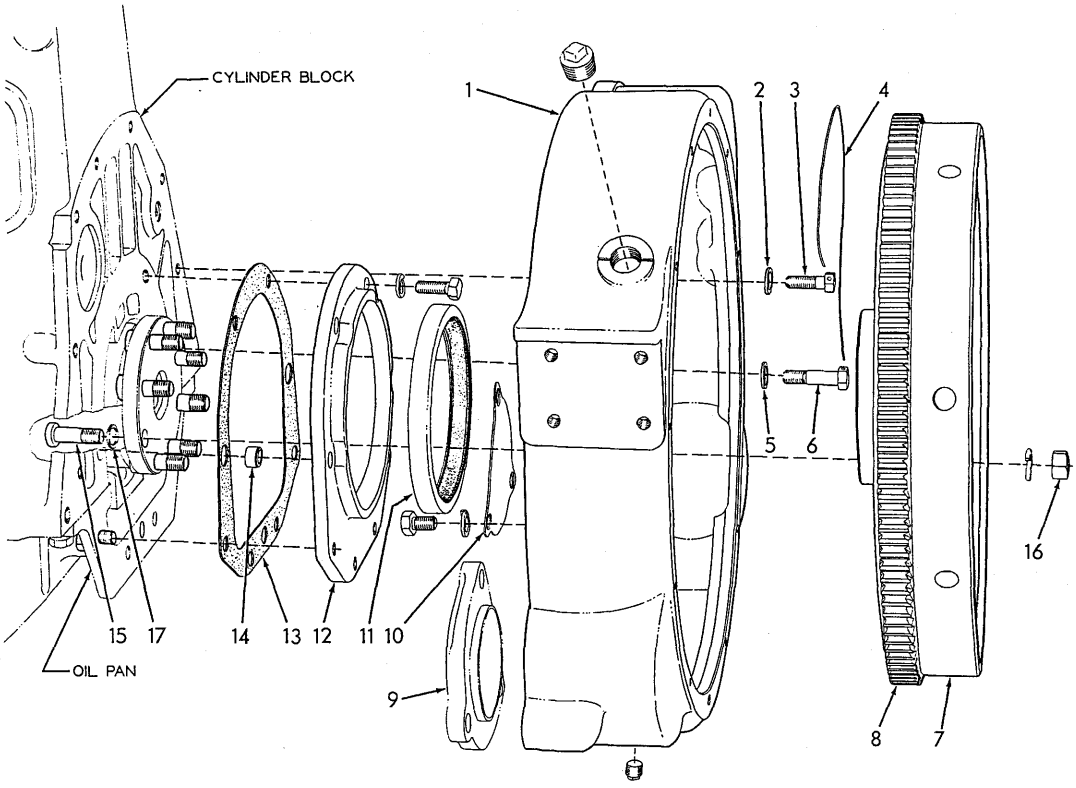
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 10 | ------ | 1 | GEAR ASSEMBLY, idler (Includes items 11 thru 14)(Used prior to engine #80932. Replace with GEAR ASSEMBLY 4375919, SHAFT ASSEMBLY 4373326 and NUT 4373330) |
| | 4375919 | 1 | GEAR ASSEMBLY, idler (Includes items 11 thru 14 (Effective with engine #80932) |
| 11 | ------ | 1 | BEARING, roller, idler gear (2-1/2" O. D. )(Used prior to engine #80932. Not serviced separately) |
| | ------ | 1 | BEARING, roller, idler gear (3-5/8" O. D. )(Effective with engine #80932. Not serviced separately) |
| 12 | 4373624 | 1 | RETAINER, idler gear bearing |
| 13 | 916277 | 6 | CAPSCREW, 5/16"NC x 5/8" |
| 14 | 4373332 | 3 | PLATE, capscrew locking |
| 15 | 4371408 | 1 | NUT, idler gear shaft (hex-type)(Used prior to engine #80932) |
| | 4373330 | 1 | NUT, idler gear shaft (round-type)(Effective with engine #80932) |
| 16 | 4002453 | 1 | NUT, idler gear shaft retaining screw |
| 17 | 4105453 | 1 | GASKET, retaining screw nut |
| 18 | 4367162 | 1 | SCREW, retaining, idler gear shaft |
| | | | NOTE: Items listed below comprise the SECOND TYPE IDLER GEAR ARRANGEMENT effective with engine serial No. 81500. |
| 19 | 4373515 | 1 | SHAFT ASSEMBLY, idler gear (Includes item 20) |
| 20 | 917673 | 1 | PLUG, pipe, hex-socket, 1/8"NPT |
| 21 | 4373616 | 3 | CAPSCREW, 5/8"NC x 1-3/4" |
| 22 | 4373619 | 3 | LOCKWASHER |
| 23 | 4375574 | 1 | GEAR ASSEMBLY, idler (Includes items 24 thru 27) |
| 24 | ------- | 1 | BEARING, roller, idler gear (Not serviced separately) |
| 25 | 4373510 | 1 | RETAINER, idler gear bearing |
| 26 | 916277 | 6 | CAPSCREW, 5/16"NC x 5/8" |
| 27 | 4373332 | 3 | PLATE, capscrew locking |
| 28 | 4373511 | 1 | NUT, idler gear shaft |




TIMING IDLER GEAR T-13117

USAGE: Effective with tractor serial No. 9001 but later discontinued with engine serial No. 21-3995 (HDT-844 and 21000 series engines)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4373515 | 1 | SHAFT ASSEMBLY, idler gear (Includes item 2) |
| 2 | 917673 | 1 | PLUG, pipe, hex-socket, 1/8"NPT |
| 3 | 4373616 | 3 | CAPSCREW, 5/8"NC x 1-3/4" |
| 4 | 4373619 | 3 | LOCKWASHER |
| 5 | 4375574 | 1 | GEAR ASSEMBLY, idler (Includes items 6 thru 9) |
| 6 | ------ | 1 | BEARING, roller, idler gear (Not serviced separately) |
| 7 | 4373510 | 1 | RETAINER, idler gear bearing |
| 8 | 916277 | 6 | CAPSCREW, 5/16"NC x 5/8" |
| 9 | 4373332 | 3 | PLATE, capscrew locking |
| 10 | 4373511 | 1 | NUT, idler gear shaft |




FLYWHEEL AND HOUSING (First type) T-13092

USAGE: Tractors prior to serial No. 9001 (HDS-844 series engine)

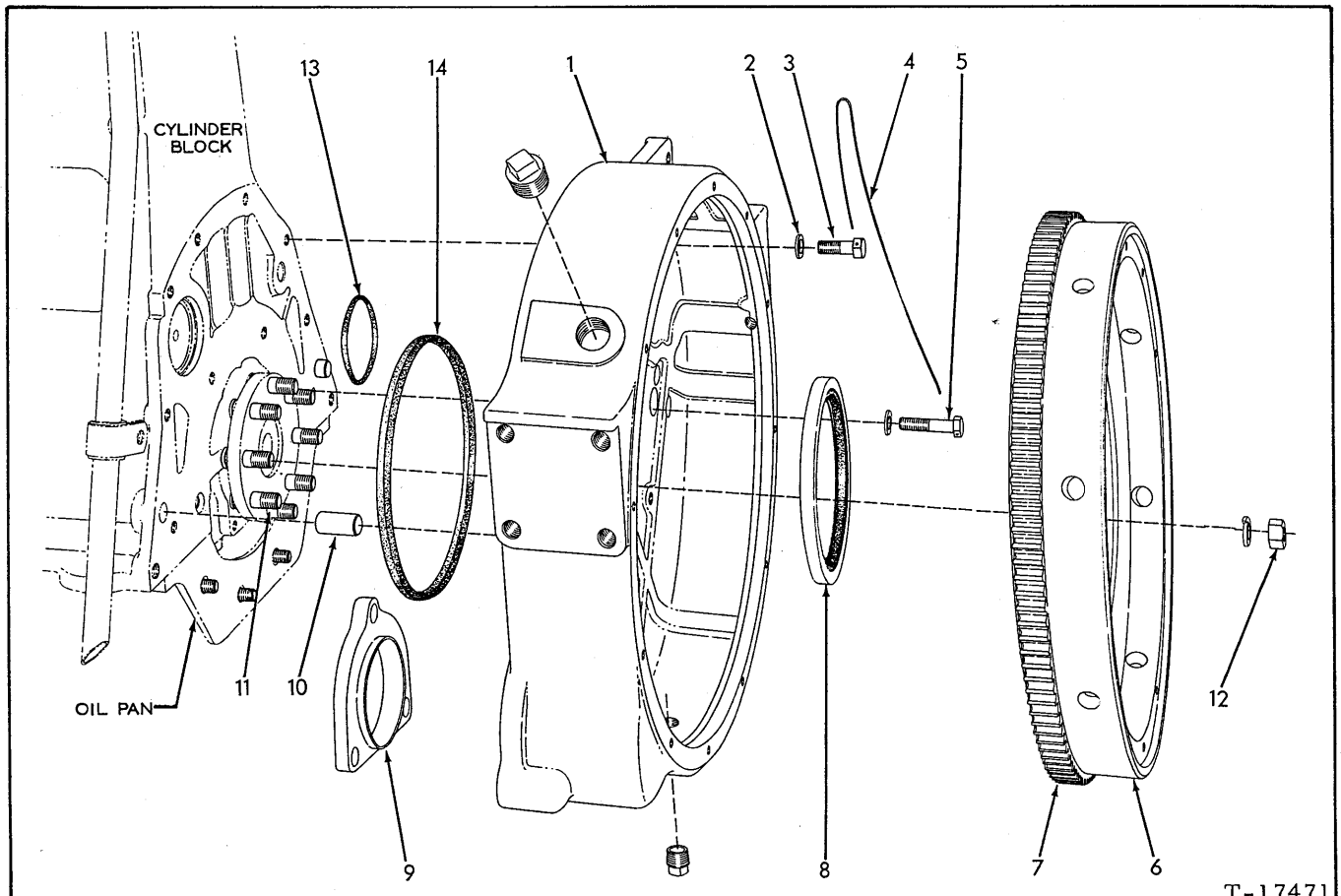
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4365611 | 1 | HOUSING, flywheel (Used prior to engine #67395) |
| | 4372552 | 1 | HOUSING, flywheel (Effective with engine #67395) |
| | 912768 | 1 | PLUG, pipe, 1"NPT |
| | 901653 | 1 | PLUG, pipe, 3/8"NPT (drain) |
| 2 | 4371107 | 8 | WASHER, plain, flywheel housing capscrew |
| 3 | 4365140 | 8 | CAPSCREW, flywheel housing |
| 4 | 4503600 | 2 | WIRE, locking, flywheel housing lower capscrews (#18 x 10") |
| | 4364930 | 3 | WIRE, locking, flywheel housing upper capscrew (#18 x 13") |
| 5 | 4365862 | 2 | WASHER, flywheel housing dowel bolt |
| 6 | 4365837 | 2 | BOLT, dowel, flywheel housing |
| 7 | 4371654 | 1 | FLYWHEEL ASSEMBLY (Includes item 8)(Used prior to engine #67395) |
| | 4372801 | 1 | FLYWHEEL ASSEMBLY (Includes item 8)(Effective with engine #67395) |
| 8 | 4360457 | 1 | GEAR, ring |

(Continued)

## FLYWHEEL AND HOUSING (First type)(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 9 | ------ | 1 | ADAPTOR, starting motor (See STARTER) |
| 10 | 4303737 | 1 | COVER, flywheel housing |
| | 919223 | 3 | • CAPSCREW, 5/8"NC x 5/8" |
| | 904209 | 3 | LOCKWASHER, 5/8" |
| 11 | 4375625 | 1 | SEAL, oil, rear crankcase |
| 12 | 4362641 | 1 | HOUSING, crankcase rear oil seal |
| | 903638 | 4 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 913717 | 4 | CAPSCREW, 1/2"NC x 1-1/8" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 13 | 4660429 | 1 | □ GASKET, rear oil seal housing |
| 14 | 4303038 | 2 | DOWEL, rear oil seal housing |
| 15 | 4389201 | 8 | BOLT, flywheel |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| 16 | 4388204 | 8 | NUT, 5/8"NF |
| 17 | 4254041 | 8 | RING, sealing, flywheel bolt (Discontinued since is not necessary) |

□ Also see PACKAGED PARTS

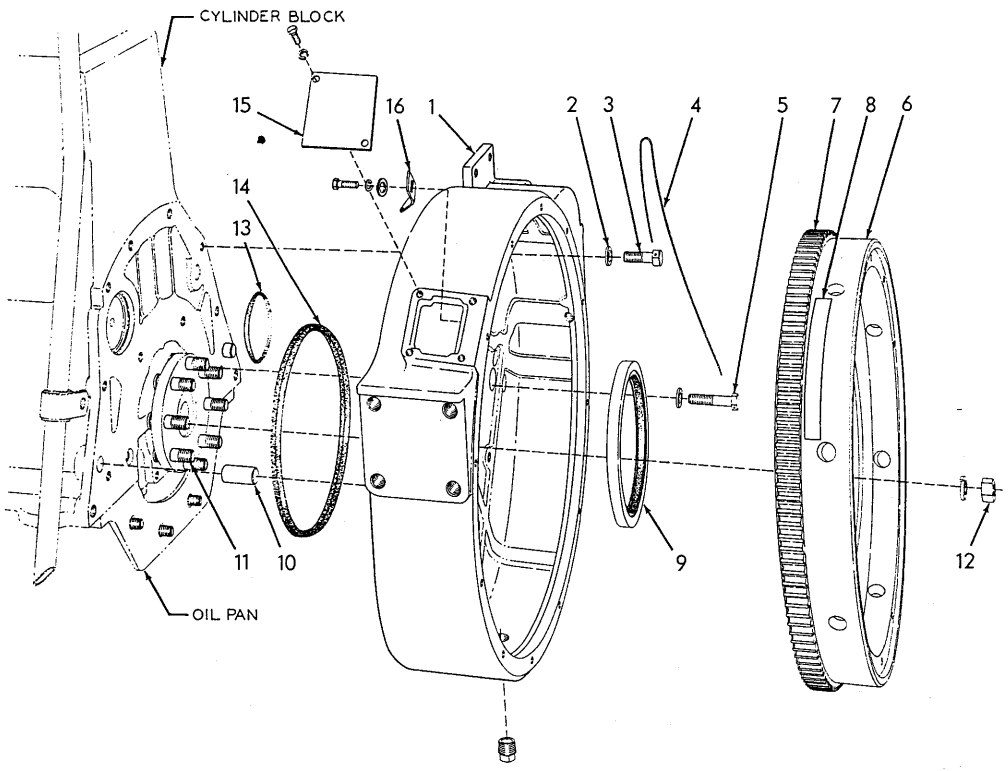



FLYWHEEL AND HOUSING (Second type)

# FLYWHEEL AND HOUSING (Second type)

USAGE: Tractors serial No. 9001 thru No. 11000 (HDT-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4373714 | 1 | HOUSING, flywheel |
| | 912725 | 1 | PLUG, pipe, 1/2"NPT (drain) |
| | 912768 | 1 | PLUG, pipe, 1"NPT |
| | 915666 | 4 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 2 | 4371107 | 10 | WASHER, plain, flywheel housing capscrew |
| 3 | 4365140 | 8 | CAPSCREW, flywheel housing |
| 4 | 4503600 | 2 | WIRE, locking, lower capscrews (#18 x 10") |
| | 4364930 | 3 | WIRE, locking, upper capscrews (#18 x 13") |
| 5 | 4375540 | 2 | CAPSCREW, flywheel housing (1/2"NC x 2-1/4") |
| 6 | 4372801 | 1 | FLYWHEEL ASSEMBLY (Includes item 7) |
| 7 | 4360457 | 1 | GEAR, ring |
| 8 | 4375625 | 1 | SEAL, oil, rear crankcase |
| 9 | ------ | 1 | ADAPTOR, starting motor (See STARTER) |
| 10 | 4373716 | 2 | DOWEL, flywheel housing |
| 11 | 4389201 | 8 | BOLT, flywheel |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| 12 | 4388204 | 8 | NUT, 5/8"NF |
| 13 | 4253355 | 1 | □ O-RING, flywheel housing to crankcase (small) |
| 14 | 4336897 | 1 | □ RING, sealing, flywheel housing to crankcase (large) |
| | | | □ Also see PACKAGED PARTS |




FLYWHEEL AND HOUSING (Third type) T-19656

USAGE: Tractors serial No. 11001 and up (21000 series engine)

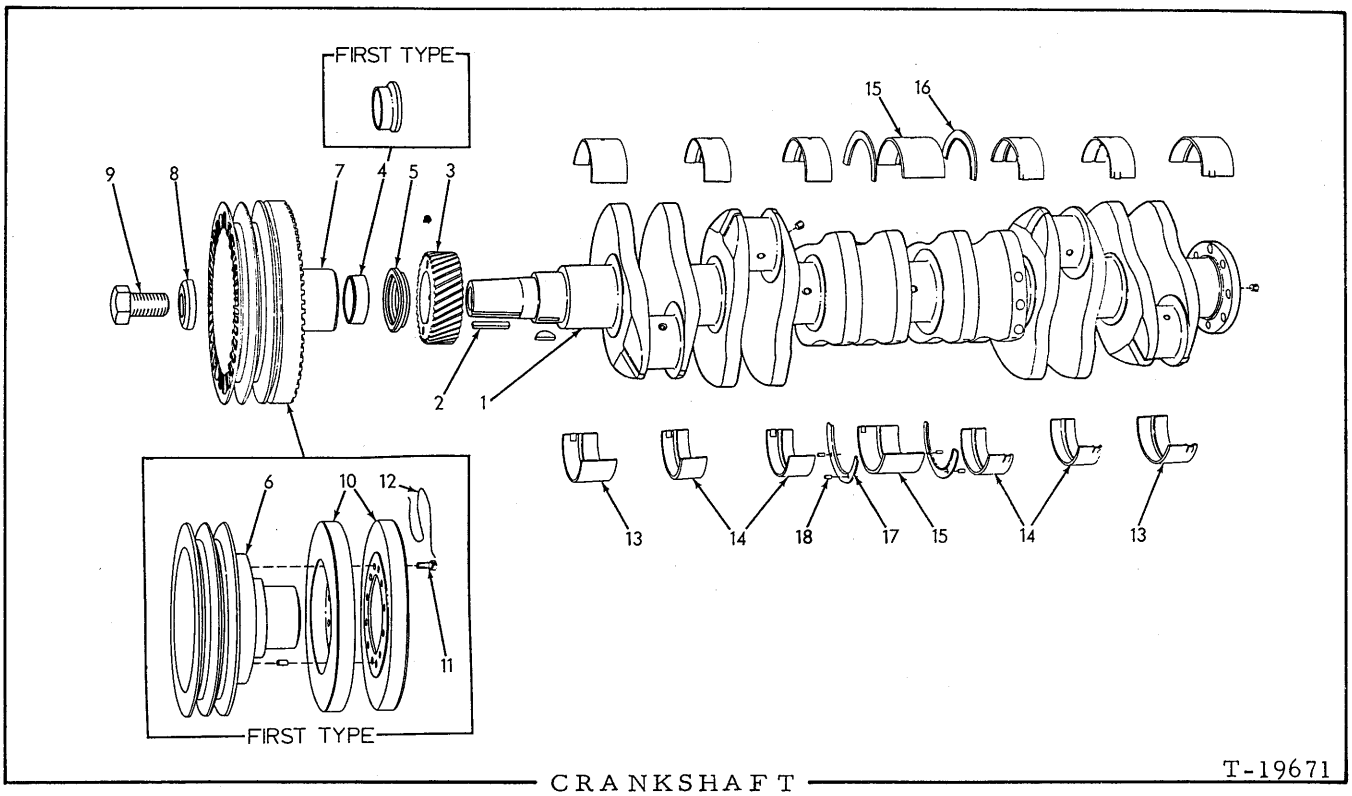
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | HOUSING, flywheel (Used prior to engine #21-3242)(Order HOUSING 4378981 and items 15 and 16) |
| | 912768 | 1 | PLUG, pipe, 1"NPT (timing hole) |
| | 4378981 | 1 | HOUSING, flywheel (Effective with engine #21-3242) |
| | 913717 | 4 | CAPSCREW, 1/2"NC x 1-1/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 912725 | 1 | PLUG, pipe, 1/2"NPT (drain) |
| 2 | 4371107 | 10 | WASHER, plain, flywheel housing capscrew |
| 3 | 4365140 | 8 | CAPSCREW, flywheel housing |
| 4 | 4503600 | 2 | WIRE, locking, lower capscrew (#18 x 10") |
| | 4364930 | 3 | WIRE, locking, upper capscrews (#18 x 13") |
| 5 | 4375540 | 2 | CAPSCREW, flywheel housing (1/2"NC x 2-1/4") |
| 6 | 4387172 | 1 | FLYWHEEL ASSEMBLY (Includes item 7)(Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 4387679 | 1 | FLYWHEEL ASSEMBLY (Includes item 7)(Effective on Model HD21G with tractor #11725, excluding #11798) |
| 7 | 4360457 | 1 | GEAR, ring |

(Continued)

## FLYWHEEL AND HOUSING (Third type)(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 8 | 4378408 | 1 | STRIP, timing marking (applied to flywheel rim)(Effective with engine #21-3139. Not required with service replacement flywheel) |
| 9 | 4375625 | 1 | SEAL, oil, rear crankcase |
| 10 | 4373716 | 2 | DOWEL, flywheel housing |
| 11 | 4389201 | 8 | BOLT, flywheel |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| 12 | 4388204 | 8 | NUT, 5/8"NF |
| 13 | 4253355 | 1 | □ O-RING, flywheel housing to crankcase (small) |
| 14 | 4336897 | 1 | □ RING, sealing, flywheel housing to crankcase (large) |
| 15 | 4378409 | 1 | COVER, timing hole (Effective with engine #21-3242) |
| | 905660 | 2 | CAPSCREW, 5/16"NC x 1/2" |
| | 904205 | 2 | LOCKWASHER, 5/16" |
| 16 | 4387733 | 1 | POINTER, timing (Effective with engine #21-3242) |
| | 903626 | 1 | CAPSCREW, 5/16"NC x 3/4" |
| | 904205 | 1 | LOCKWASHER, 5/16" |
| | 910335 | 1 | WASHER, plain, SAE std., 5/16" |

□ Also see PACKAGED PARTS




CRANKSHAFT T-19671

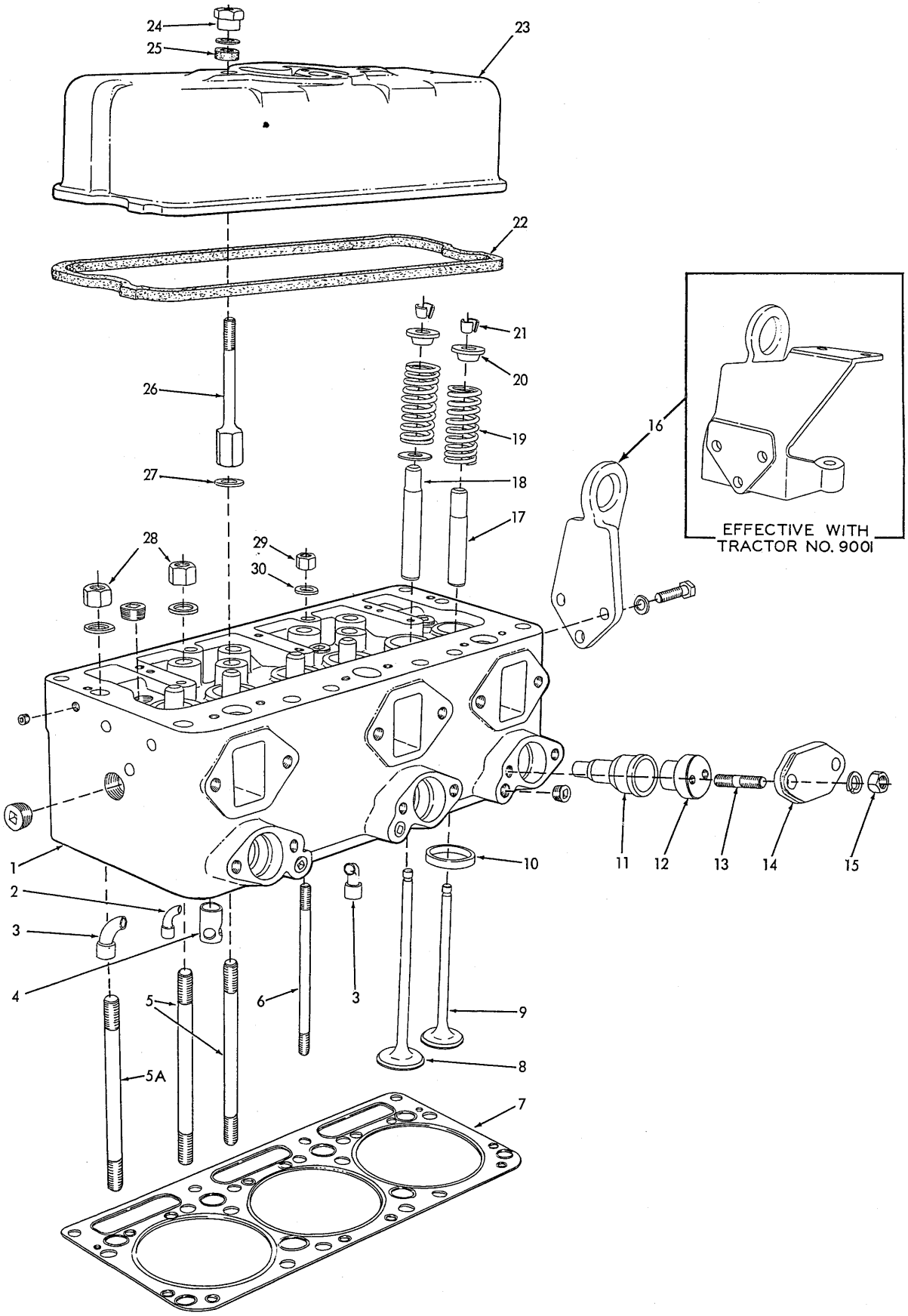
* Tractors prior to serial No. 11001 (844 series engines)
** Tractors serial No. 11001 and up (21000 series engine)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4388532 | 1 | - | CRANKSHAFT ASSEMBLY (Includes PLUGS indented below) |
| 1 | 4388508 | - | 1 | CRANKSHAFT ASSEMBLY (Includes PLUGS indented below) |
| | 917673 | 6 | 6 | PLUG, pipe, hex-socket, 1/8"NPT |
| | 907859 | 1 | 1 | PLUG, pipe, hex-socket, 1/4"NPT |
| 2 | 4362310 | 1 | 1 | KEY, crankshaft pulley |
| 3 | 4389052 | 1 | 1 | GEAR, crankshaft |
| | 911021 | 1 | 1 | KEY, #25 woodruff, 5/16" x 1-1/2" |
| 4 | 4371472 | 1 | - | SLEEVE, front oil seal (Used prior to engine #84055) |
| 4 | 4374390 | 1 | 1 | SLEEVE, front oil seal sleeve (Used on engines #84055 thru #21-3879) |
| 5 | 4374391 | 1 | 1 | SPACER, front oil seal sleeve (Used on engines #84055 thru #21-3879) |
| 6 | 4371599 | 1 | - | PULLEY, crankshaft (Not for Model HD21G tractors #9001 and up) |
| 6 | 092185 | 1 | - | PULLEY, crankshaft (Model HD21G tractors #9001 and up) |
| 6 | ------ | - | 1 | PULLEY, crankshaft (Models HD21A,F prior to engine #21-3415. Order PULLEY 4385754) |
| 6 | 097079 | - | 1 | PULLEY, crankshaft (Model HD21G prior to engine #21-3995) |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 7 | 4385754 | - | 1 | PULLEY, crankshaft (Includes integral damper)(Used on Model HD21A,F engines #21-3415 thru #21-3994) |
| | 4386781 | - | 1 | PULLEY, crankshaft (Includes integral damper)(Model HD21A,F engines #21-3995 and up) |
| | ------ | - | 1 | PULLEY, crankshaft (Includes integral damper)(Original equipment on Model HD21G engines #21-3995 and up. Order PULLEY 4388244, 1 each DAMPER 4388217, PULLEY 4388240, BELT 4388326, PULLEY 4388253, CAPSCREW 4388254; 4 BOLTS 4751643 and 6 BOLTS 4752075) |
| | 4388244 | - | 1 | PULLEY, crankshaft (Does not include damper. For 1/2" water pump belt) — Service replacement for Model HD21G. Not illustrated. |
| | 4388217 | - | 1 | DAMPER, crankshaft pulley — Service replacement for Model HD21G. Not illustrated. |
| | 4752075 | - | 6 | BOLT (self-locking, 1/2"NF x 1-1/4") — Service replacement for Model HD21G. Not illustrated. |
| 8 | 4371503 | 1 | 1 | WASHER, crankshaft pulley capscrew |
| 9 | 4347897 | 1 | 1 | CAPSCREW, crankshaft pulley (1-1/4"NF x 2")(Original equipment) |
| | 4388254 | - | 1 | CAPSCREW, crankshaft pulley (1-1/4"NF x 2-1/2")(Used with service replacement PULLEY 4388244 only) |
| 10 | 4369655 | 1 | 2 | DAMPER, vibration (Not used on Models HD21A,F after engine #21-3415 or on Model HD21G after engine #21-3994) |
| | 917020 | 2 | 2 | PIN, dowel, 7/16" x 1" |
| 11 | 4365868 | 6 | 6 | CAPSCREW, drilled-hd., 7/16"NF x 7/8" |
| 12 | 4503600 | 3 | 3 | WIRE, locking, #18 x 10" |
| 13 | 4375962 | 4 | 4 | BEARING, front and rear main (standard size) |
| | 4375974 | 4 | 4 | BEARING, front and rear main (.010" undersize) |
| | 4375975 | 4 | 4 | BEARING, front and rear main (.020" undersize) |
| | 4375976 | 4 | 4 | BEARING, front and rear main (.030" undersize) |
| | 4375977 | 4 | 4 | BEARING, front and rear main (.040" undersize) |
| 14 | 4375963 | 8 | 8 | BEARING, intermediate main (standard size) |
| | 4375985 | 8 | 8 | BEARING, intermediate main (.010" undersize) |
| | 4375986 | 8 | 8 | BEARING, intermediate main (.020" undersize) |
| | 4375987 | 8 | 8 | BEARING, intermediate main (.030" undersize) |
| | 4375988 | 8 | 8 | BEARING, intermediate main (.040" undersize) |
| | | | | NOTE: Each Bearing Kit listed below includes upper and lower bearings, set of standard thrust flanges and dowel pins. |
| 15 | 4377605 | 1 | 1 | BEARING KIT, center main (standard size) |
| | 4377606 | 1 | 1 | BEARING KIT, center main (.010" undersize) |
| | 4377607 | 1 | 1 | BEARING KIT, center main (.020" undersize) |
| | 4377608 | 1 | 1 | BEARING KIT, center main (.030" undersize) |
| | 4377609 | 1 | 1 | BEARING KIT, center main (.040" undersize) |

(Continued)




CYLINDER HEAD (First type)

T-13084

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 16 | 4366181 | 2 | 2 | FLANGE, thrust, center main, upper (standard size) |
| | 4374446 | 2 | 2 | FLANGE, thrust, center main, upper (.005" oversize) |
| | 4374447 | 2 | 2 | FLANGE, thrust, center main, upper (.010" oversize) |
| | 4374448 | 2 | 2 | FLANGE, thrust, center main, upper (.015" oversize) |
| 17 | 4366182 | 2 | 2 | FLANGE, thrust, center main, lower (standard size) |
| | 4374450 | 2 | 2 | FLANGE, thrust, center main, lower (.005" oversize) |
| | 4374451 | 2 | 2 | FLANGE, thrust, center main, lower (.010" oversize) |
| | 4374452 | 2 | 2 | FLANGE, thrust, center main, lower (.015" oversize) |
| 18 | 4250898 | 4 | 4 | PIN, dowel, thrust flange |

## CYLINDER HEAD

USAGE: Tractors prior to serial No. 11001 (844 series engines)

* Used prior to tractor serial No. 9001, excluding tractors listed below.
** Effective with tractor serial No. 9001, including tractors listed below.

| | | | | |
|---|---|---|---|---|
| 1 | 4372365 | 2 | - | HEAD ASSEMBLY, cylinder (Includes items 2, 3, 4, 10, 17, 18 and plugs indented below) |
| | 4377936 | - | 2 | HEAD ASSEMBLY, cylinder (Includes items 2, 3, 4, 10, 17, 18 and plugs indented below) |
| | 917673 | 8 | 8 | PLUG, pipe, hex-socket, 1/8"NPT Dryseal |
| | 918887 | 6 | 6 | PLUG, pipe, ctsk-hd., 3/8"NPT Dryseal |
| | 904224 | 10 | 10 | PLUG, pipe, ctsk-hd., 3/4"NPT |
| 2 | 4364421 | 6 | 6 | TUBE, water (small) |
| 3 | 4366814 | 2 | 2 | TUBE, water, center position (large) |
| | 4377078 | 4 | 4 | TUBE, water, center position (large) |
| 4 | 4365851 | 2 | 2 | DISTRIBUTOR, water |
| 5 | 4372262 | 24 | 24 | STUD, cylinder head (5/8" diam.) |
| 5A | 4373491 | 4 | 4 | STUD, pilot, cylinder head (5/8" diam. Has "S" marking on end) |
| 6 | 4372725 | 8 | 8 | STUD, cylinder head (1/2" diam.) |
| 7 | 4371054 | 2 | 2 | □GASKET, cylinder head |
| 8 | 4364386 | 6 | - | VALVE, intake |
| | 4375377 | - | 6 | VALVE, intake |
| 9 | 4364387 | 6 | 6 | VALVE, exhaust |

□Also see PACKAGED PARTS

(Continued)

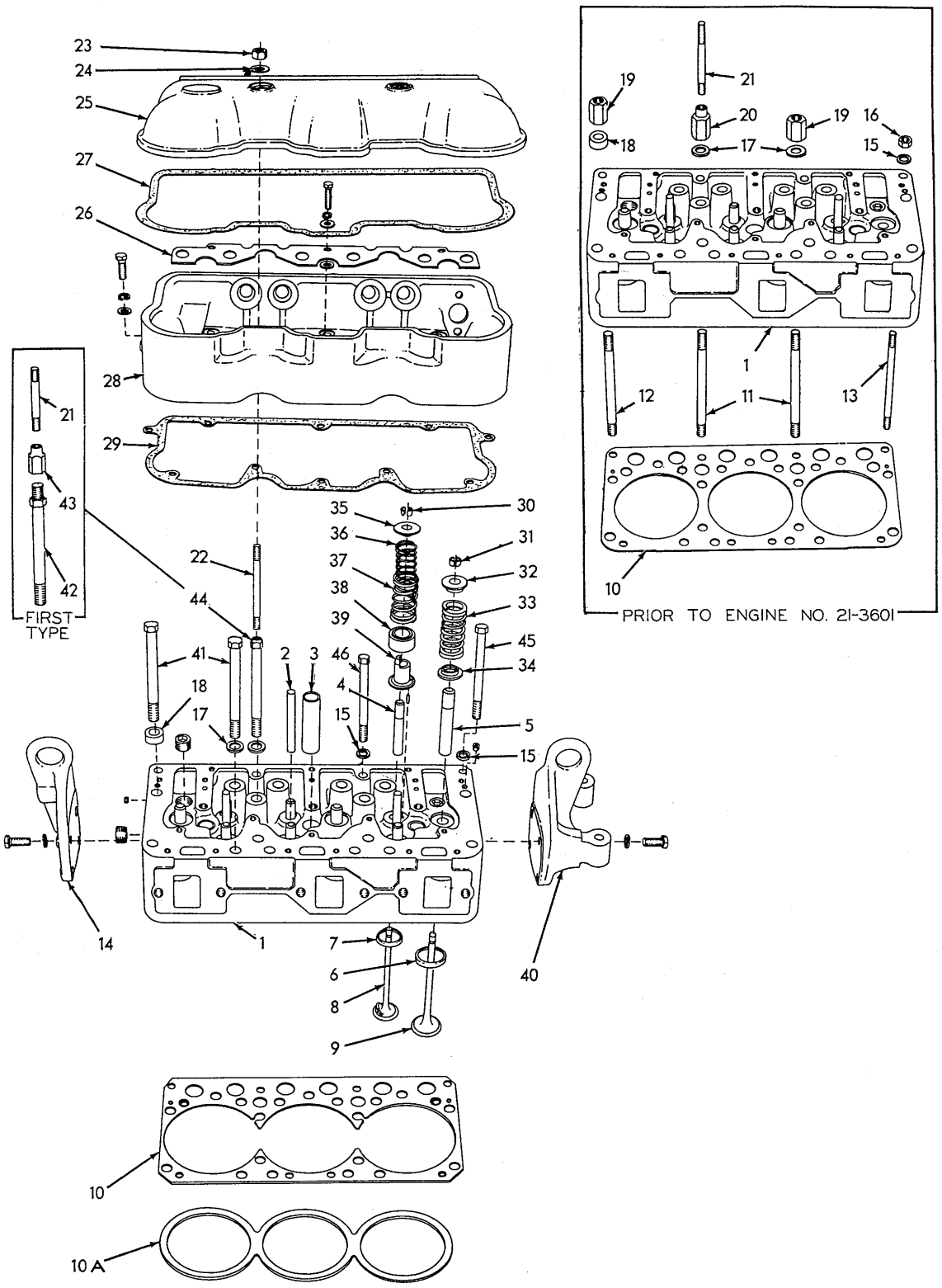
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 10 | 4364385 | 6 | 6 | INSERT, exhaust valve seat (standard size) |
| | 4385360 | 6 | 6 | INSERT, exhaust valve seat (.005" oversize) |
| 11 | 4375929 | 6 | - | CELL ASSEMBLY, energy (includes ORIFICE and PIN. Serviced only as a unit) |
| | 4376372 | - | 6 | CELL, energy |
| 12 | 4374959 | 6 | - | PLUG, energy cell |
| | 4376373 | - | 6 | PLUG, energy cell |
| 13 | 4371114 | 12 | 12 | STUD, energy cell clamp |
| 14 | 4365787 | 6 | 6 | CLAMP, energy cell |
| 15 | 4253348 | 12 | 12 | NUT, energy cell stud (1/2"NF) |
| | 904208 | 12 | 12 | LOCKWASHER, 1/2" |
| 16 | 4371390 | 1 | - | EYE, engine lifting, front (Also used on tractors listed below) |
| | 904541 | 3 | - | CAPSCREW, 1/2"NC x 1-3/4" (Also attaches fan bracing bracket) |
| | 904208 | 3 | - | LOCKWASHER, 1/2" |
| | 4375305 | - | 1 | EYE, engine lifting, front (Not used on tractors listed below) |
| | 903639 | - | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | - | 3 | LOCKWASHER, 1/2" |
| | 4371390 | 1 | 1 | EYE, engine lifting, rear |
| | 903639 | 3 | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 17 | 4364378 | 6 | 6 | GUIDE, exhaust valve |
| 18 | 4364379 | 6 | 6 | GUIDE, intake valve |
| 19 | 4366551 | 12 | 12 | SPRING, valve |
| 20 | 4366758 | 12 | 12 | RETAINER, valve spring |
| 21 | 4376508 | 24 | 24 | LOCK, valve spring retainer |
| 22 | 4375720 | 2 | 2 | □GASKET, rocker cover |
| 23 | 4371441 | 2 | 2 | COVER, rocker (Used prior to engine #21-2168) |
| | 4376405 | - | 2 | COVER, rocker (Effective with engine #21-2168) |
| 24 | 4364130 | 4 | 4 | NUT, rocker cover (Used prior to engine #21-2473) |
| | 4375937 | - | 4 | NUT, rocker cover (Nylok)(Effective with engine #21-2473) |
| | 906985 | 4 | 4 | WASHER, plain, U.S. std., 7/16" |
| 25 | 4364131 | 4 | 4 | □WASHER, sealing, rocker cover nut (Used prior to engine #21-2473) |
| | 4375938 | - | 4 | WASHER, rocker cover nut (Dynaseal)(Effective with engine #21-2473) |

□Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 26 | 4364465 | 4 | 4 | EXTENSION, cylinder head stud |
| 27 | 4389910 | 28 | 28 | WASHER, cylinder head nut (for 5/8" stud) |
| 28 | 4388202 | 24 | 24 | NUT, cylinder head stud (5/8"NF) |
| 29 | 4388205 | 8 | 8 | NUT, cylinder head stud (1/2"NF) |
| 30 | 4372864 | 8 | 8 | WASHER, cylinder head nut (for 1/2" stud) |

Tractor serial No. exceptions: 7190, 8014, 8140, 8313, 8319, 8337, 8346, 8370, 8463, 8464, 8471, 8480, 8485, 8541, 8546, 8567, 8572, 8575, 8576, 8577, 8586, 8587, 8603, 8610, 8650, 8656, 8672, 8673, 8677, 8678, 8679, 8684, 8692, 8695, 8696, 8699, 8700, 8702 thru 8716, 8718, 8720, 8721, 8724, 8729, 8730, 8737, 8738, 8739, 8741, 8743, 8744, 8746 thru 8751, 8754, 8760, 8761, 8763, 8765, 8766, 8768 thru 8776, 8779, 8780, 8783 thru 8786, 8788, 8789, 8791, 8792, 8794, 8795, 8796, 8798, 8800 thru 8803, 8806, 8808, 8812, 8813, 8815, 8816, 8817 and 8823.




CYLINDER HEAD (Second type)

T-33428

# CYLINDER HEAD

USAGE: Tractors serial No. 11001 and up (21000 series engine)

* Engines prior to serial No. 21-3601
** Engines serial No. 21-3601 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4387503 | 2 | 2 | HEAD ASSEMBLY, cylinder (Includes items 2 thru 7 and plugs indented below) |
| | 917673 | 8 | 8 | PLUG, pipe, hex-socket, 1/8"NPT |
| | 904224 | 10 | 10 | PLUG, pipe, ctsk-hd., 3/4"NPT |
| 2 | 4377005 | 6 | 6 | PIN, guide, intake valve bridge |
| 3 | 4376484 | 6 | 6 | SLEEVE, injection nozzle |
| 4 | 4385301 | 12 | 12 | GUIDE, intake valve |
| 5 | 4385355 | 6 | 6 | GUIDE, exhaust valve |
| 6 | 4387414 | 6 | 6 | INSERT, exhaust valve seat (standard)(Original equipment) |
| | 4387584 | 6 | 6 | INSERT, exhaust valve seat (standard)(For service replacement heads only) |
| | 4387415 | 6 | 6 | INSERT, exhaust valve seat (.005" oversize)(Original equipment) |
| | 4387585 | 6 | 6 | INSERT, exhaust valve seat (.005" oversize)(For service replacement heads only) |
| 7 | 4387586 | 12 | 12 | INSERT, intake valve seat (standard) |
| | 4385667 | 12 | 12 | INSERT, intake valve seat (.005" oversize)(Original equipment) |
| | 4387587 | 12 | 12 | INSERT, intake valve seat (.005" oversize)(For service replacement heads only) |
| 8 | 4378897 | 12 | 12 | VALVE, intake |
| 9 | 4376486 | 6 | 6 | VALVE, exhaust |
| 10 | ------- | 2 | - | GASKET, cylinder head (Used prior to engine #21-3492. Order GASKET KIT 4386740) |
| | ------- | 2 | 2 | GASKET, cylinder head (Engines #21-3492 thru #21-3916. See page 54 for details. Order GASKET KIT 4386740) |
| | 4386370 | - | 2 | □GASKET, cylinder head (oil and water)(Effective with engine #21-3916) |
| 10A | 4386310 | - | 2 | □GASKET, cylinder head (compression)(Effective with engine #21-3916) |
| 11 | 4376642 | 28 | - | STUD, cylinder head (5/8" diam.) |
| 12 | 4376643 | 4 | 4 | STUD, pilot, cylinder head (5/8" diam. Has "S" marking on end) (Used prior to engine #21-3639) |
| 13 | 4376480 | 8 | - | STUD, cylinder head (1/2" diam.)(Not used on engines #21-2559 thru #21-3565) |
| 14 | 4376893 | 1 | 1 | EYE, engine lifting, rear |
| | 915987 | 3 | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 15 | 4372864 | 8 | 8 | WASHER, cylinder head nut (1/2" hole) |
| 16 | 4388205 | 8 | - | NUT, cylinder head stud (1/2"NF)(Used prior to engine #21-3492) |
| | 4379740 | 8 | - | NUT, cylinder head stud (1/2"NF, Nylok)(Effective with engine #21-3492) |

□Also see PACKAGED PARTS

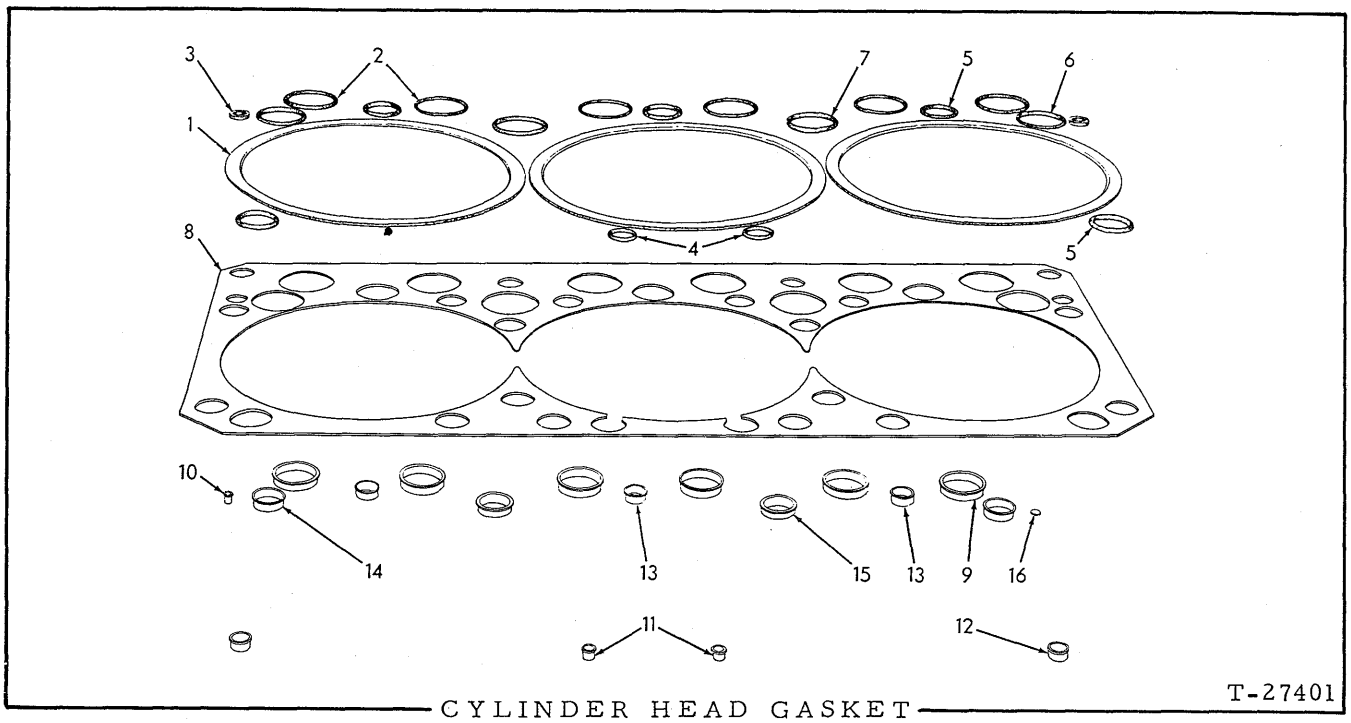
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| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 17 | 4389910 | 28 | 28 | WASHER, plain (1/8" thick, 5/8" hole) |
| 18 | 4376526 | 4 | 4 | WASHER, plain (9/16" thick, 5/8" hole) |
| 19 | 4373042 | 28 | - | NUT, cylinder head stud (5/8"NF)(Used prior to engine #21-3492) |
| | 4379744 | 28 | - | NUT, cylinder head stud (5/8"NF, Nylok)(Effective with engine #21-3492) |
| 20 | 4377540 | 4 | - | NUT, cylinder head stud (5/8"NF and 7/16"NF)(Used prior to engine #21-3492) |
| | 4379741 | 4 | - | NUT, cylinder head stud (5/8"NF and 7/16"NF, Nylok) (Effective with engine #21-3492) |
| 21 | 4377542 | 4 | - | STUD, rocker cover (7/16"NF x 4-1/2")(Also used on engines #21-3617 thru #21-3632) |
| 22 | 4385674 | - | 4 | STUD, rocker cover (7/16"NF x 5-7/8")(Not used on engines #21-3617 thru #21-3632) |
| 23 | 4375937 | 4 | 4 | NUT, rocker cover |
| 24 | 4376749 | 4 | 4 | □WASHER, sealing, rocker cover nut |
| 25 | 4376619 | 2 | 2 | COVER, rocker, upper section |
| 26 | 4379074 | 2 | 2 | PLATE, guide, push rod (Effective with engine #21-3103) |
| 27 | 4379026 | 2 | 2 | □GASKET, rocker cover |
| 28 | 4378265 | 1 | 1 | COVER, lower section, front |
| | 4378266 | 1 | 1 | COVER, lower section, rear |
| | 910245 | 6 | 6 | CAPSCREW, 3/8"NC x 1-3/8" (Also attaches push rod guide plate) |
| | 919224 | 14 | 14 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 20 | 20 | LOCKWASHER, 3/8" |
| | 913544 | 26 | 26 | WASHER, plain |
| 29 | 4376578 | 2 | 2 | □GASKET, cylinder head lower cover |
| 30 | 4376497 | 24 | 24 | LOCK, intake valve spring retainer |
| 31 | 4376508 | 12 | 12 | LOCK, exhaust valve spring retainer |
| 32 | 4366758 | 6 | 6 | RETAINER, exhaust valve spring |
| 33 | 4366551 | 6 | 6 | SPRING, exhaust valve |
| 34 | 4385299 | 6 | 6 | SPACER, exhaust valve spring (Effective with engine #21-3500) |
| 35 | 4386497 | 12 | 12 | RETAINER, intake valve spring |
| 36 | 4376545 | 12 | 12 | SPRING, inner, intake valve |

□ Also see PACKAGED PARTS

(Continued)

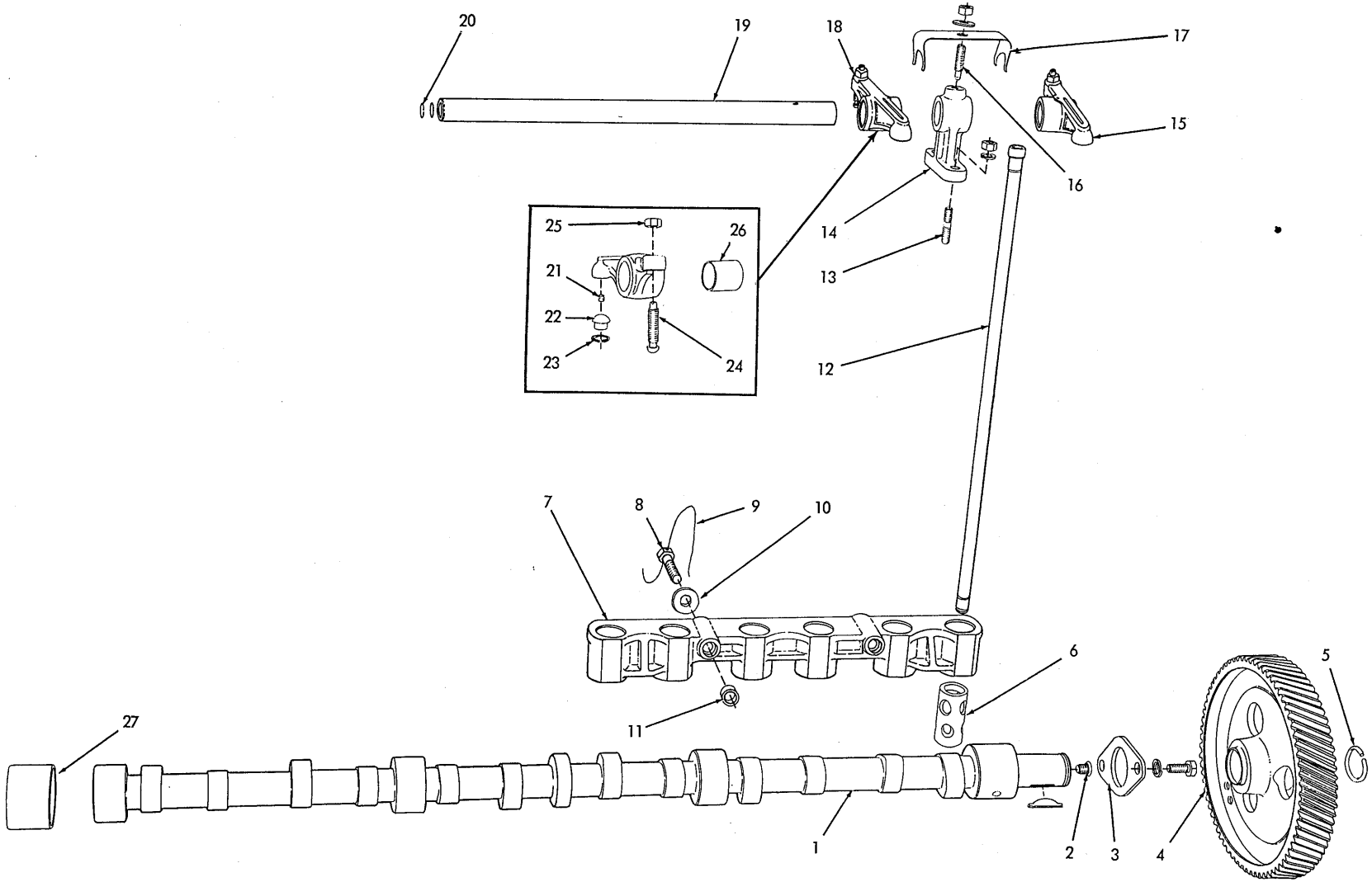
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 37 | 4376546 | 12 | 12 | SPRING, outer, intake valve |
| 38 | 4377909 | 12 | 12 | SPACER, indexing guide |
| 39 | 4379320 | 12 | 12 | GUIDE, indexing, intake valve |
| | 917560 | 12 | 12 | PIN, dowel, 3/16" x 3/8" |
| 40 | 4377496 | 1 | 1 | EYE, engine lifting, front |
| | 915987 | 3 | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 41 | 4388520 | - | 28 | CAPSCREW, cylinder head (5/8"NC x 6-15/16" long) (4 less used on engines prior to #21-3639. See item 12) |
| 42 | ------- | - | 4 | CAPSCREW, cylinder head (Used on engines #21-3617 thru #21-3632. Order items 22 and 44) |
| 43 | ------- | - | 4 | NUT, cylinder head capscrew (5/8"NF and 7/16"NF) (Used on engines #21-3617 thru #21-3632. Order items 22 and 44) |
| 44 | 4388525 | - | 4 | CAPSCREW, cylinder head (5/8"NC x 6-15/16", special head) (Effective with engine #21-3633) |
| 45 | 4385496 | - | 6 | CAPSCREW, cylinder head (1/2"NC x 6-5/8") |
| 46 | 4385497 | - | 2 | CAPSCREW, cylinder head (1/2"NC x 6") |




CYLINDER HEAD GASKET

USAGE: Engines serial No. 21-3492 thru 21-3916. Not serviced. Order GASKET KIT 4386740.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------- | 6 | GASKET, cylinder sleeve |
| 2 | ------- | 12 | O-RING, push rod holes (1-1/8"I.D., yellow dot) |
| 3 | ------- | 4 | RING, oil holes (3/8"I.D.) |
| 4 | ------- | 4 | O-RING, water holes (7/16"I.D., red dot) |
| 5 | ------- | 10 | O-RING, water holes (11/16"I.D., black dot) |
| 6 | ------- | 4 | O-RING, water holes (15/16"I.D., white dot) |
| 7 | ------- | 4 | O-RING, water holes (1"I.D., green dot) |
| 8 | ------- | 2 | PLATE, gasket locating |
| 9 | ------- | 12 | FERRULE, push rod holes (1-1/8"O.D., yellow dot) |
| 10 | ------- | 2 | FERRULE, oil holes (1/4"O.D.) |
| 11 | ------- | 4 | FERRULE, water holes (5/16"O.D., red dot) |
| 12 | ------- | 4 | FERRULE, water holes (15/32"O.D., blue dot) |
| 13 | ------- | 6 | FERRULE, water holes (19/32"O.D., black dot) |
| 14 | ------- | 4 | FERRULE, water holes (13/16"O.D., white dot) |
| 15 | ------- | 4 | FERRULE, water holes (29/32"O.D., green dot) |
| 16 | ------- | 2 | FERRULE, gasket locating (disc type, 1/4" diam.) (For blind oil hole) |




VALVE OPERATING MECHANISM (First type)

T-13085

# VALVE OPERATING MECHANISM

USAGE: Tractors prior to serial No. 11001

* Used prior to tractor serial No. 9001, excluding tractors listed below
** Effective with tractor serial No. 9001, including tractors listed below

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4365454 | 1 | 1 | CAMSHAFT |
| | 923738 | 1 | 1 | KEY, hi-pro, 5/16" x 2-1/8" |
| 2 | 4001318 | 1 | 1 | PLUG, camshaft oil hole |
| 3 | 4660390 | 1 | 1 | PLATE, thrust (13/64" thick)(Original equipment) |
| | 903637 | 2 | 2 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| 3 | 4386776 | 1 | 1 | PLATE, thrust (21/64" thick)(Service replacement only. See item 4) |
| | 903638 | 2 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| 4 | ------ | 1 | 1 | GEAR, camshaft (Original equipment. Order GEAR 4389053, PLATE 4386776, SPACER 4387469 and 2 CAPSCREWS 903638) |
| 4 | 4389053 | 1 | 1 | GEAR, camshaft (service replacement only) |
| 4 | 4387469 | 1 | 1 | SPACER, camshaft gear (11/32" thick)(Used with GEAR 4389053 only) |
| 5 | 4254295 | 1 | 1 | RING, snap, gear retaining |
| 6 | 4360955 | 12 | 12 | LIFTER, valve |
| 7 | 4376276 | 2 | 2 | BRACKET, valve lifter |
| 8 | 916317 | 4 | 4 | CAPSCREW, 1/2"NC x 2-3/4" — Used prior to engine #21-2295 |
| 8 | 904208 | 4 | 4 | LOCKWASHER, 1/2" — Used prior to engine #21-2295 |
| 8 | 4376278 | - | 4 | CAPSCREW, 1/2"NC x 3" — Effective with engine #21-2295 |
| 9 | 4374018 | - | 2 | WIRE, locking (20" long) — Effective with engine #21-2295 |
| 10 | 4376277 | - | 4 | WASHER, plain — Effective with engine #21-2295 |
| 11 | 4303038 | 4 | 4 | DOWEL, hollow, valve lifter bracket |
| 12 | 4365565 | 12 | 12 | ROD, push |
| 13 | 4365957 | 12 | 12 | STUD, rocker shaft bracket |
| | 910123 | 12 | 12 | NUT, 3/8"NF |
| | 904206 | 12 | 12 | LOCKWASHER, 3/8" |
| 14 | 4365852 | 6 | 6 | BRACKET, rocker shaft |
| 15 | 4364460 | 6 | - | ARM ASSEMBLY, rocker, left hand (Includes items 21 thru 26) |
| 15 | 4375379 | - | 6 | ARM ASSEMBLY, rocker, left hand (Includes items 21 thru 26) |
| 16 | 4364132 | 2 | 2 | SCREW, rocker shaft retaining |
| | 910123 | 2 | 2 | NUT, 3/8"NF |
| | 900817 | 2 | 2 | WASHER, plain, U.S. std., 3/8" |
| 17 | 4338143 | 6 | 6 | CLIP, spring, rocker arm retaining |
| | 912592 | 4 | 4 | CAPSCREW, 3/8"NF x 5/8" |
| | 900817 | 4 | 4 | WASHER, plain, U.S. std., 3/8" |

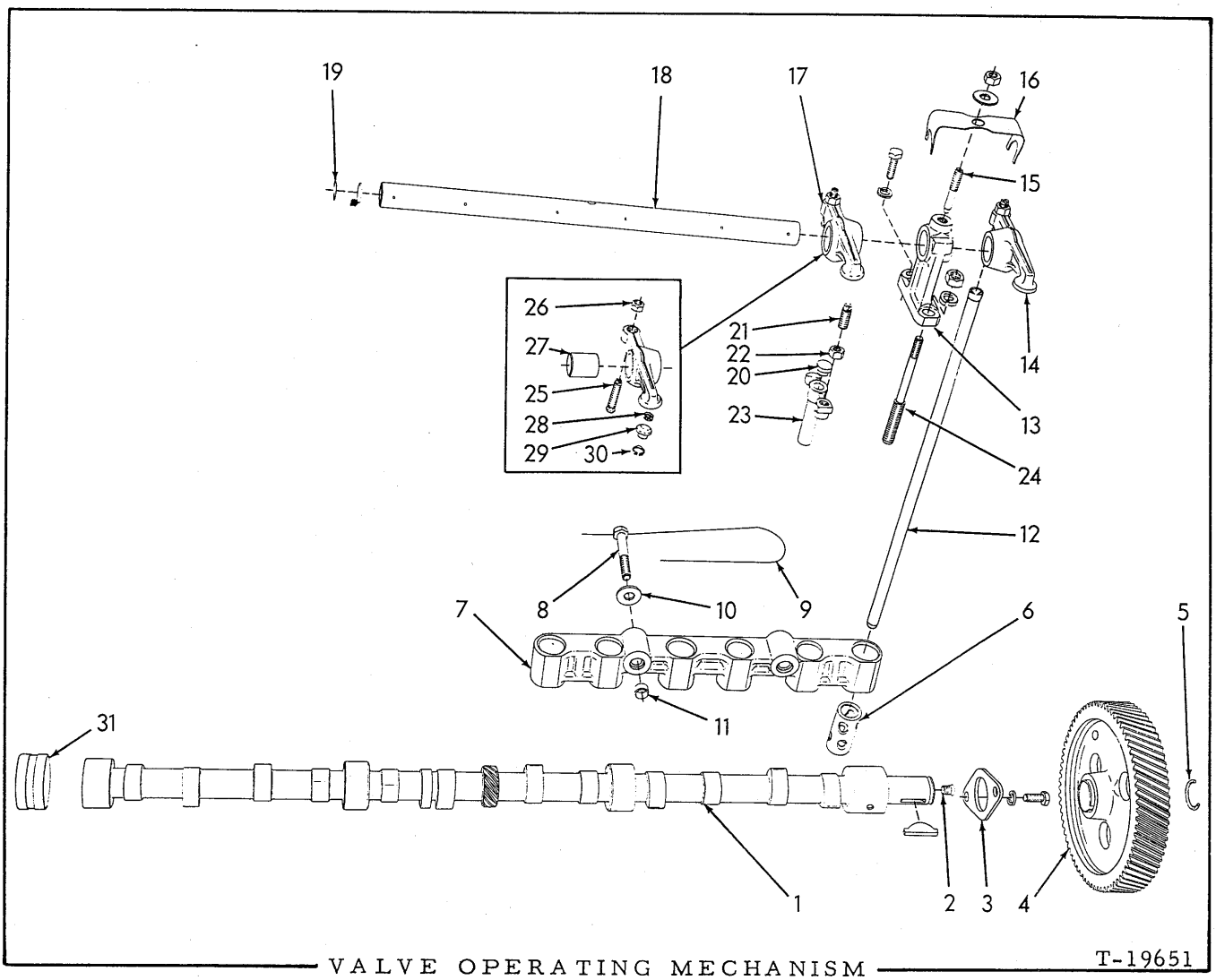
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## VALVE OPERATING MECHANISM (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 18 | 4364459 | 6 | - | ARM ASSEMBLY, rocker, right hand (Includes items 21 thru 26) |
| | 4375378 | - | 6 | ARM ASSEMBLY, rocker, right hand (Includes items 21 thru 26) |
| 19 | 4374933 | 2 | 2 | SHAFT ASSEMBLY, rocker arm (Includes 910002 PLUGS and item 20) |
| | 910002 | 4 | 4 | PLUG, expansion, 3/4" diam. |
| 20 | 4254363 | - | 4 | RING, snap, rocker shaft |
| 21 | 4364422 | 12 | 12 | WICK, oiling, rocker ball |
| 22 | 4661329 | 12 | 12 | BALL, rocker arm |
| 23 | 4661328 | 12 | 12 | RETAINER, rocker arm ball |
| 24 | 4005425 | 12 | 12 | SCREW, valve lash adjustment |
| 25 | 4348440 | 12 | 12 | NUT, valve lash adjustment screw |
| 26 | 4660369 | 12 | 12 | BUSHING, rocker arm |
| 27 | ------ | -- | -- | BEARING, camshaft (See CYLINDER BLOCK) |

Tractor serial No. exceptions: 7190, 8014, 8140, 8313, 8319, 8337, 8346, 8370, 8463, 8464, 8471, 8480, 8485, 8541, 8546, 8567, 8572, 8575, 8576, 8577, 8586, 8587, 8603, 8610, 8650, 8656, 8672, 8673, 8677, 8678, 8679, 8684, 8692, 8695, 8696, 8699, 8700, 8702 thru 8716, 8718, 8720, 8721, 8724, 8729, 8730, 8737, 8738, 8739, 8741, 8743, 8744, 8746 thru 8751, 8754, 8760, 8761, 8763, 8765, 8766, 8768 thru 8776, 8779, 8780, 8783 thru 8786, 8788, 8789, 8791, 8792, 8794, 8795, 8796, 8798, 8800 thru 8803, 8806, 8808, 8812, 8813, 8815, 8816, 8817 and 8823.

MEMO




VALVE OPERATING MECHANISM T-19651

USAGE: Tractors serial No. 11001 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4389931 | 1 | CAMSHAFT |
| | 923738 | 1 | KEY, hi-pro, 5/16" x 2-1/8" |
| 2 | 4001318 | 1 | PLUG, camshaft oil hole |
| 3 | 4660390 | 1 | PLATE, thrust (13/64" thick)(Original equipment) |
| | 903637 | 2 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 4386776 | 1 | PLATE, thrust (21/64" thick)(Service replacement only. See item 4) |
| | 903638 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 4 | ------ | 1 | GEAR, camshaft (Original equipment. Order GEAR 4389053, PLATE 4386776, SPACER 4387469 and 2 CAPSCREWS 903638) |
| | 4389053 | 1 | GEAR, camshaft (Service replacement only) |
| | 4387469 | 1 | SPACER, camshaft gear (11/32" thick)(Used with GEAR 4389053 only) |
| 5 | 4254295 | 1 | RING, snap, gear retaining |

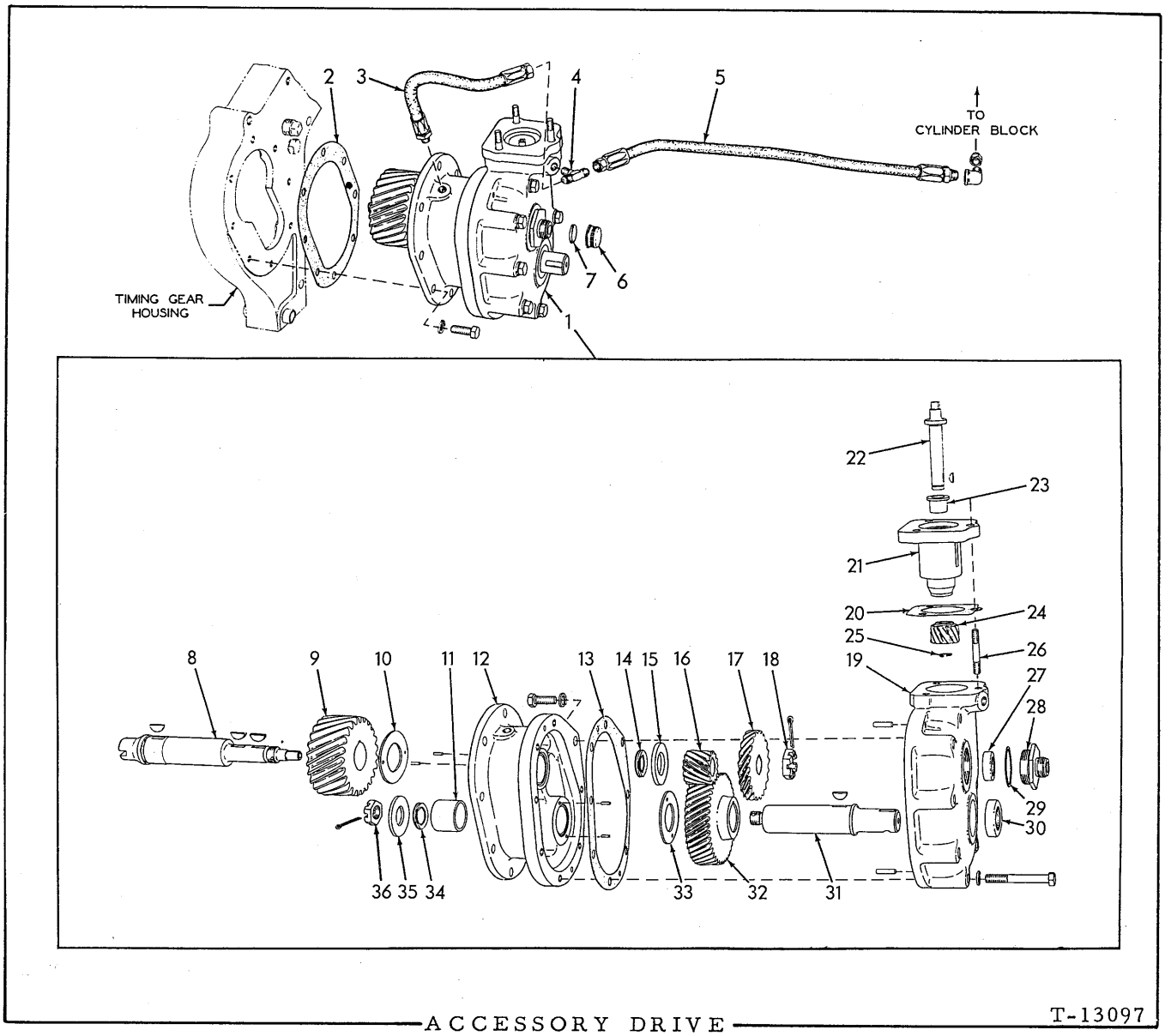
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## VALVE OPERATING MECHANISM (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 6 | 4360955 | 12 | LIFTER, valve |
| 7 | 4376276 | 2 | BRACKET, valve lifter |
| 8 | 4376278 | 4 | CAPSCREW, drilled-hd., 1/2"NC x 3" |
| 9 | 4374018 | 2 | WIRE, locking, 1/16" x 20" |
| 10 | 4376277 | 4 | WASHER, valve lifter bracket capscrew |
| 11 | 4303038 | 4 | DOWEL, hollow, valve lifter bracket |
| 12 | 4376584 | 12 | ROD, push |
| 13 | 4376540 | 6 | BRACKET, rocker shaft |
| | 919224 | 6 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 6 | LOCKWASHER, 3/8" |
| 14 | 4385481 | 6 | ARM ASSEMBLY, rocker, left hand (Includes items 25 thru 30) |
| 15 | 4376498 | 2 | STUD, rocker shaft retaining and oil restricting (drilled oil passage) (Used prior to engine #21-3705) |
| | 4385716 | 2 | STUD, rocker shaft retaining and oil restricting (Effective with engine #21-3705) |
| | 900817 | 2 | WASHER, plain, U.S. std., 3/8" |
| | 910123 | 2 | NUT, 3/8"NF |
| 16 | 4378280 | 6 | CLIP, spring, rocker arm retaining |
| | 912592 | 4 | CAPSCREW, 3/8"NF x 5/8" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 17 | 4385482 | 6 | ARM ASSEMBLY, rocker, right hand (Includes items 25 thru 30) |
| 18 | 4385300 | 2 | SHAFT ASSEMBLY, rocker arm (Includes 910002 PLUGS and item 19) (If for engines prior to #21-3705 also order 1 CAPSCREW 912592) |
| | 910002 | 4 | PLUG, expansion, 3/4" diam. |
| 19 | 4254363 | 4 | RING, snap, rocker shaft |
| 20 | 4376538 | 6 | INSERT, intake valve bridge |
| 21 | 4366314 | 6 | SCREW, intake valve bridge adjustment |
| 22 | 4348440 | 6 | NUT, intake valve bridge adjustment screw |
| 23 | 4389641 | 6 | BRIDGE ASSEMBLY, intake valve (Includes items 20 thru 22) |
| 24 | 4377541 | 6 | STUD, rocker shaft bracket (Also retains injection nozzle holder) |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| | 910325 | 6 | NUT, 1/2"NC |
| 25 | 4005425 | 12 | SCREW, valve lash adjustment |
| 26 | 4348440 | 12 | NUT, valve lash adjustment screw |
| 27 | 4660369 | 12 | BUSHING, rocker arm |
| 28 | 4364422 | 12 | WICK, rocker arm |
| 29 | 4379305 | 12 | BALL, rocker arm |
| 30 | 4385480 | 12 | RING, snap, rocker arm ball retaining |
| 31 | ------ | -- | BEARING, camshaft (See CYLINDER BLOCK) |

(Items 28, 29, 30: See NOTE below)

NOTE: Items 28 thru 30 were effective with engine #21-3301, including engines Nos. 21-2959, 3029, 3032, 3033, 3035, 3037, 3039, 3040, 3042 thru 3048, 3051, 3052, 3053, 3056 thru 3059, 3062, 3063, 3064, 3066 thru 3073, 3076, 3077, 3079, 3080, 3083, 3085, 3087, 3088, 3090, 3092, 3096, 3097, 3098, 3100, 3102, 3104, 3106, 3108, 3115, 3126, 3131, 3133 thru 3137, 3139, 3140 and 3297.




ACCESSORY DRIVE T-13097

USAGE: Tractors prior to serial No. 11001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4375576 | 1 | DRIVE ASSEMBLY, accessory (Consists of items 8 thru 36) |
| | 903630 | 8 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| 2 | 4660457 | 1 | □ GASKET, accessory drive to gear housing |
| 3 | 4365676 | 1 | HOSE ASSEMBLY, oil (See page 6 for parts) |
| 4 | 4374529 | 1 | TEE (flare type, restricted, 1/4" tube, 1/8"NPT male) |
| 5 | 4365678 | 1 | HOSE ASSEMBLY, oil (See page 6 for parts) |
| | 917032 | 1 | ADAPTER, extension, 1/8"NPT male and female |
| | 917013 | 1 | ELBOW, street, 90°, brass, 1/8"NPT (Used prior to engine #21-2364. See INJECTION PUMP OIL LINES for superseding pipe tee used in this location) |

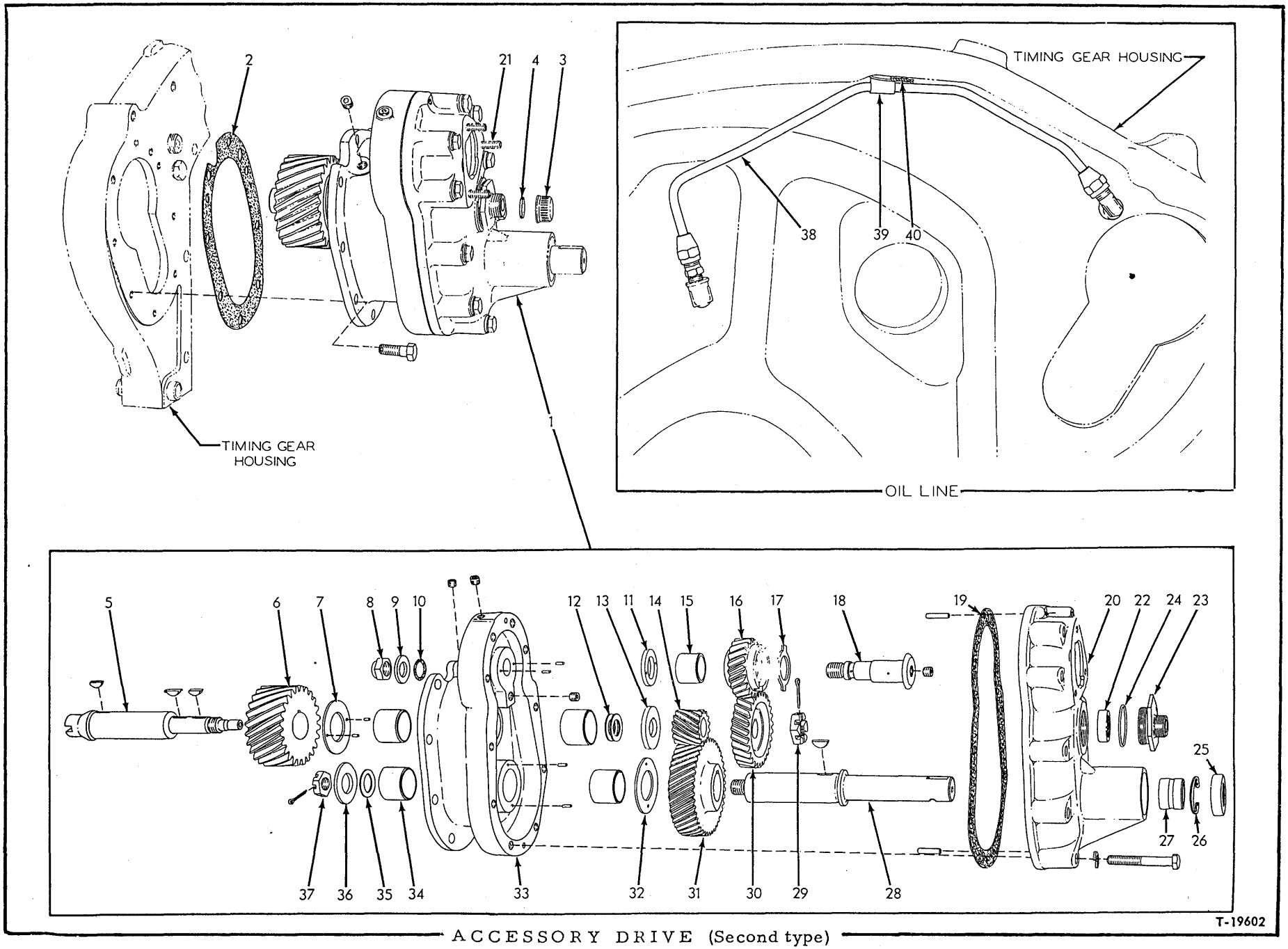
□ Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 6 | 4371118 | 1 | NUT, cover, tachometer hole |
| 7 | 4367090 | 1 | □GASKET, tachometer hole nut |
| 8 | 4371740 | 1 | SHAFT, upper |
| | 905123 | 3 | KEY, #9 woodruff, 3/16" x 3/4" |
| 9 | 4389055 | 1 | GEAR, accessory drive |
| 10 | 4368154 | 1 | WASHER, thrust, upper shaft, front |
| | 917014 | 2 | PIN, dowel, 1/8" x 3/8" |
| 11 | 4369746 | 4 | BUSHING, accessory drive housing |
| 12 | 4369702 | 1 | HOUSING ASSEMBLY (Includes item 11) |
| 13 | 4369705 | 1 | GASKET, cover |
| 14 | 4362726 | 2 | SHIM, upper shaft end-play adjustment (laminated) |
| 15 | 4388154 | 1 | WASHER, thrust, rear |
| 16 | 4364404 | 1 | GEAR, upper shaft (14 teeth) |
| 17 | 4385227 | 1 | GEAR, driving, fuel transfer pump (21 teeth) |
| 18 | 4369751 | 1 | NUT, upper shaft |
| | 900808 | 1 | PIN, cotter, 1/8" x 1-1/2" |
| 19 | 4369739 | 1 | COVER, accessory drive housing |
| | 903636 | 7 | CAPSCREW, 3/8"NC x 2-3/4" |
| | 910211 | 1 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| | 917023 | 2 | PIN, dowel, 1/4" x 1" |
| 20 | 4369764 | 1 | GASKET, drive shaft retainer |
| 21 | 4369762 | 1 | RETAINER ASSEMBLY, transfer pump drive shaft (Includes item 23) |
| 22 | 4369761 | 1 | SHAFT, driving, fuel transfer pump |
| | 910173 | 1 | KEY, #2 woodruff, 3/32" x 1/2" |
| 23 | 4369886 | 2 | BUSHING, transfer pump drive shaft |
| 24 | 4375052 | 1 | GEAR, transfer pump drive shaft (14 teeth) |
| 25 | 4253721 | 1 | RING, snap, transfer pump driven gear |
| 26 | 4301519 | 3 | STUD, fuel transfer pump |
| 27 | 4368323 | 1 | SEAL, oil, upper shaft |
| 28 | 4365627 | 1 | ADAPTER, tachometer drive |
| 29 | 4251601 | 1 | □GASKET, tachometer drive adapter |
| 30 | 4386879 | 1 | SEAL, oil, lower shaft |

□ Also see PACKAGED PARTS

(Continued)




ACCESSORY DRIVE (Second type)

## ACCESSORY DRIVE (Continued)

USAGE: Tractors prior to serial No.11001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 31 | 4365281 | 1 | SHAFT, lower |
| | 905123 | 1 | KEY, #9 woodruff, 3/16" x 3/4" |
| 32 | 4369712 | 1 | GEAR, lower shaft (42 teeth) |
| 33 | 4368154 | 1 | WASHER, thrust, lower shaft, rear |
| | 917014 | 2 | PIN, dowel, 1/8" x 3/8" |
| 34 | 4362726 | 1 | SHIM, lower shaft end-play adjustment (laminated) |
| 35 | 4364166 | 1 | WASHER, thrust, lower shaft, front |
| 36 | 4371119 | 1 | NUT, lower shaft |
| | 900808 | 1 | PIN, cotter, 1/8" x 1-1/2" |

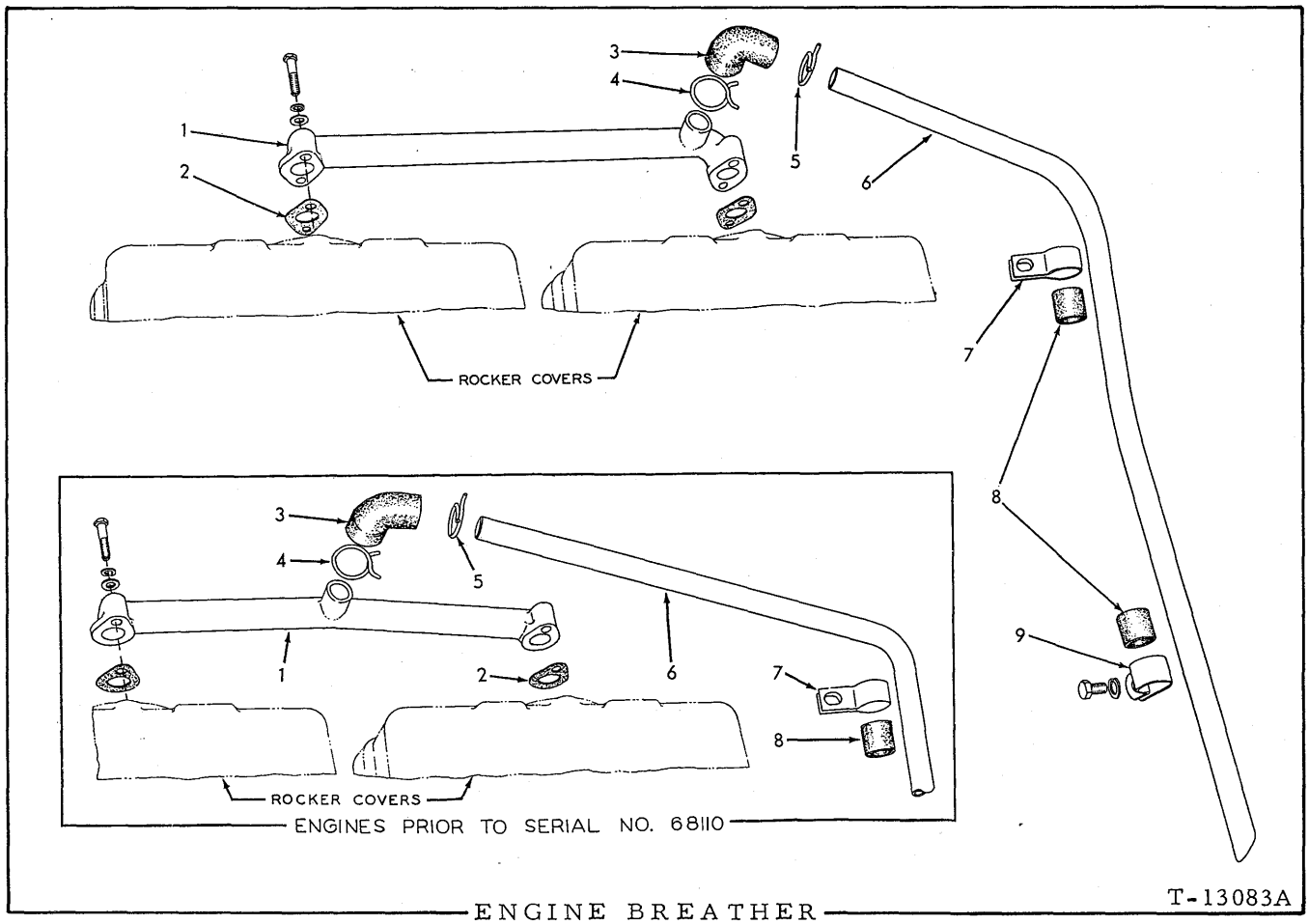
## ACCESSORY DRIVE

USAGE: Tractors serial No.11001 and up

| | | | |
|---|---|---|---|
| 1 | 4389108 | 1 | DRIVE ASSEMBLY, accessory (Consists of items 5 thru 37) |
| | 921520 | 8 | CAPSCREW, Nylok, 3/8"NC x 7/8" |
| 2 | 4376603 | 1 | □ GASKET, accessory drive to gear housing |
| 3 | 4371118 | 1 | NUT, cover, tachometer hole |
| 4 | 4367090 | 1 | □ GASKET, tachometer hole nut |
| 5 | 4371740 | 1 | SHAFT, upper |
| | 917409 | 2 | KEY, #9 woodruff, 3/16" x 3/4" |
| | 923280 | 1 | KEY, hi-pro, 3/16" x 15/16" |
| 6 | 4389055 | 1 | GEAR, accessory drive |
| 7 | 4368154 | 1 | WASHER, thrust, upper shaft, front |
| | 917014 | 2 | PIN, dowel, 1/8" x 3/8" |
| 8 | 4376671 | 1 | NUT, driven gear shaft |
| 9 | 4389986 | 1 | WASHER, driven gear shaft |
| 10 | 923574 | 1 | O-RING, driven gear shaft |
| 11 | 4376598 | 1 | WASHER, thrust, driven gear |
| | 917014 | 2 | PIN, dowel, 1/8" x 3/8" |
| 12 | 4362726 | 2 | SHIM, upper shaft, end-play adjustment (laminated) |
| 13 | 4388154 | 1 | WASHER, thrust, rear |
| 14 | 4364404 | 1 | GEAR, upper shaft (14 teeth) |
| 15 | 4376596 | 1 | BUSHING, driven gear |
| 16 | 4377122 | 1 | GEAR ASSEMBLY, driven, fuel transfer pump (Includes item 15) |
| 17 | 4376599 | 1 | PLATE, thrust, driven gear |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 18 | 4376591 | 1 | SHAFT ASSEMBLY, driven gear (Includes PLUG indented below) |
| | 917673 | 1 | PLUG, pipe, hex-socket, 1/8"NPT |
| 19 | 4376604 | 1 | GASKET, cover |
| 20 | 4377276 | 1 | COVER ASSEMBLY, housing (Includes item 27) |
| | 912069 | 10 | CAPSCREW, 3/8"NC x 2-1/2" |
| | 904206 | 10 | LOCKWASHER, 3/8" |
| | 917023 | 2 | PIN, dowel, 1/4" x 1" |
| 21 | ------ | 3 | STUD (See FUEL TRANSFER PUMP) |
| 22 | 4368323 | 1 | SEAL, oil, upper shaft |
| 23 | 4365627 | 1 | ADAPTER, tachometer drive |
| 24 | 4251601 | 1 | GASKET, tachometer drive adapter |
| 25 | 4386879 | 1 | SEAL, oil, lower shaft |
| 26 | 4254742 | 1 | RING, snap, bushing retaining |
| 27 | 4377278 | 1 | BUSHING, housing cover |
| 28 | 4376702 | 1 | SHAFT, lower |
| | 917409 | 1 | KEY, #9 woodruff, 3/16" x 3/4" |
| 29 | 4369751 | 1 | NUT, upper shaft |
| | 900808 | 1 | PIN, cotter, 1/8" x 1-1/2" |
| 30 | 4376590 | 1 | GEAR, driving, fuel transfer pump |
| 31 | 4369712 | 1 | GEAR, lower shaft (42 teeth) |
| 32 | 4368154 | 1 | WASHER, thrust, lower shaft, rear |
| | 917014 | 2 | PIN, dowel, 1/8" x 3/8" |
| 33 | 4376602 | 1 | HOUSING ASSEMBLY (Includes item 34) |
| | 917673 | 4 | PLUG, pipe, hex-socket, 1/8"NPT |
| 34 | 4369746 | 4 | BUSHING, accessory drive housing |
| 35 | 4362726 | 1 | SHIM, lower shaft end-play adjustment (laminated) |
| 36 | 4364166 | 1 | WASHER, thrust, lower shaft, front |
| 37 | 4371119 | 1 | NUT, lower shaft |
| | 900808 | 1 | PIN, cotter, 1/8" x 1-1/2" |
| 38 | 4376627 | 1 | TUBE ASSEMBLY, lubricating oil (Includes nuts) |
| | 910141 | 1 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male |
| | 913475 | 1 | ELBOW, flare type, 1/4" tube, 1/8"NPT female |
| | 917841 | 1 | NIPPLE, pipe, 1/8"NPT x 7/8" |
| | 917013 | 1 | ELBOW, street, brass, 90°, 1/8"NPT |
| 39 | 4361829 | 1 | CLIP, tube supporting |
| 40 | 4335669 | 1 | CAPSCREW, drilled-hd., 1/4"NC x 1/2" |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| | 4348691 | 1 | WIRE, locking, #18 x 6" |




ENGINE BREATHER

USAGE: Tractors prior to serial No. 11001 (844 series engines)

* Engines prior to serial No. 21-2168
** Engines serial No. 21-2168 and up

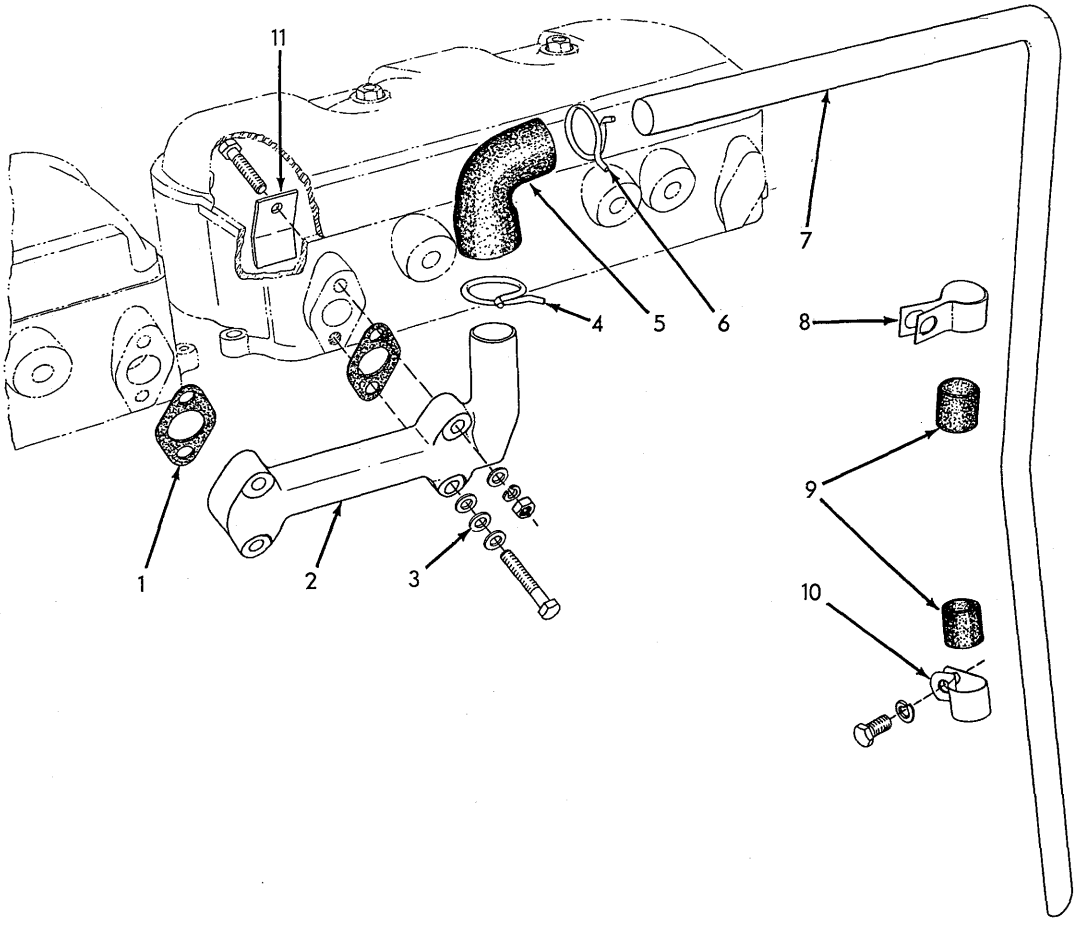
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | - | CONNECTOR, rocker cover (Used prior to engine #68110. Order CONNECTOR 4372451 and TUBE 4372431) |
| | 4372451 | 1 | - | CONNECTOR, rocker cover (Effective with engine #68110) |
| | 4376404 | - | 1 | CONNECTOR, rocker cover |
| | 903633 | 2 | 4 | CAPSCREW, 3/8"NC x 1-3/4" |
| | 904206 | 2 | 4 | LOCKWASHER, 3/8" |
| | 911115 | 2 | 4 | WASHER, plain, SAE std., 3/8" |
| 2 | 4371440 | 2 | - | GASKET, rocker cover connector |
| | 4376430 | - | 2 | □GASKET, rocker cover connector |
| 3 | 4371768 | 1 | 1 | ELBOW, breather tube (rubber) |
| 4 | 4253978 | 1 | 1 | CLAMP, breather tube elbow (1-5/8" diam.) |
| 5 | 4253977 | 1 | 1 | CLAMP, breather tube elbow (1-3/8" diam.) |

□Also see PACKAGED PARTS

(Continued)

## ENGINE BREATHER (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 6 | 4371232 | 1 | - | TUBE, breather (Used prior to engine #68110) |
| | 4372431 | 1 | 1 | TUBE, breather (Effective with tractor #68110) |
| 7 | 4371323 | 1 | 1 | CLAMP, breather tube, upper |
| 8 | 4371324 | 2 | 2 | INSULATOR, breather tube (rubber) |
| 9 | 4253510 | 1 | 1 | CLAMP, breather tube, lower |
| | 911980 | 1 | 1 | CAPSCREW, 1/2"NC x 7/8" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |



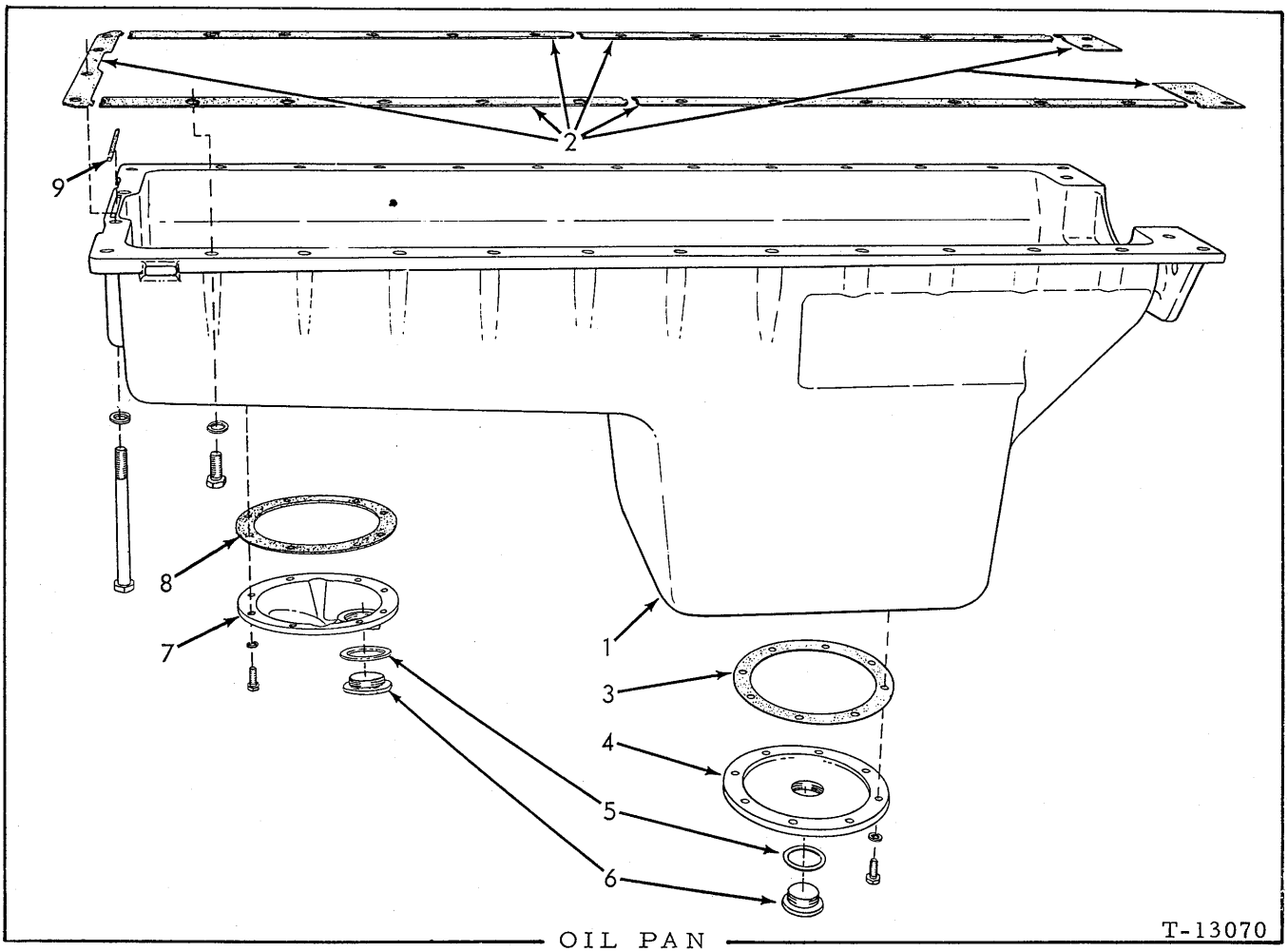

ENGINE BREATHER (Second type) T-19596

# ENGINE BREATHER

USAGE: Tractors serial No. 11001 and up (21000 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4376656 | 2 | □ GASKET, connector to cylinder head |
| 2 | 4378258 | 1 | CONNECTOR, cylinder head cover |
| | 913709 | 2 | CAPSCREW, 3/8"NC x 3" (full thread)(Used prior to engine #21-2704) |
| | 905667 | 2 | CAPSCREW, 3/8"NC x 3" (Effective with engine #21-2704) |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 910324 | 2 | NUT, 3/8"NC |
| | 916274 | 2 | CAPSCREW, 3/8"NC x 2-1/4" |
| 3 | 4340903 | 8 | WASHER, copper |
| 4 | 4253978 | 1 | CLAMP, breather tube elbow (1-5/8" diam.) |
| 5 | 4371768 | 1 | ELBOW, breather tube (rubber) |
| 6 | 4253977 | 1 | CLAMP, breather tube elbow (1-3/8" diam.) |
| 7 | 4376999 | 1 | TUBE, breather |
| 8 | 4371323 | 1 | CLAMP, tube supporting, upper |
| 9 | 4371324 | 2 | INSULATOR, breather tube (rubber) |
| 10 | 4253510 | 1 | CLAMP, tube supporting, lower |
| | 911980 | 1 | CAPSCREW, 1/2"NC x 7/8" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 11 | 4378190 | 2 | BAFFLE, oil |

□ Also see PACKAGED PARTS




OIL PAN

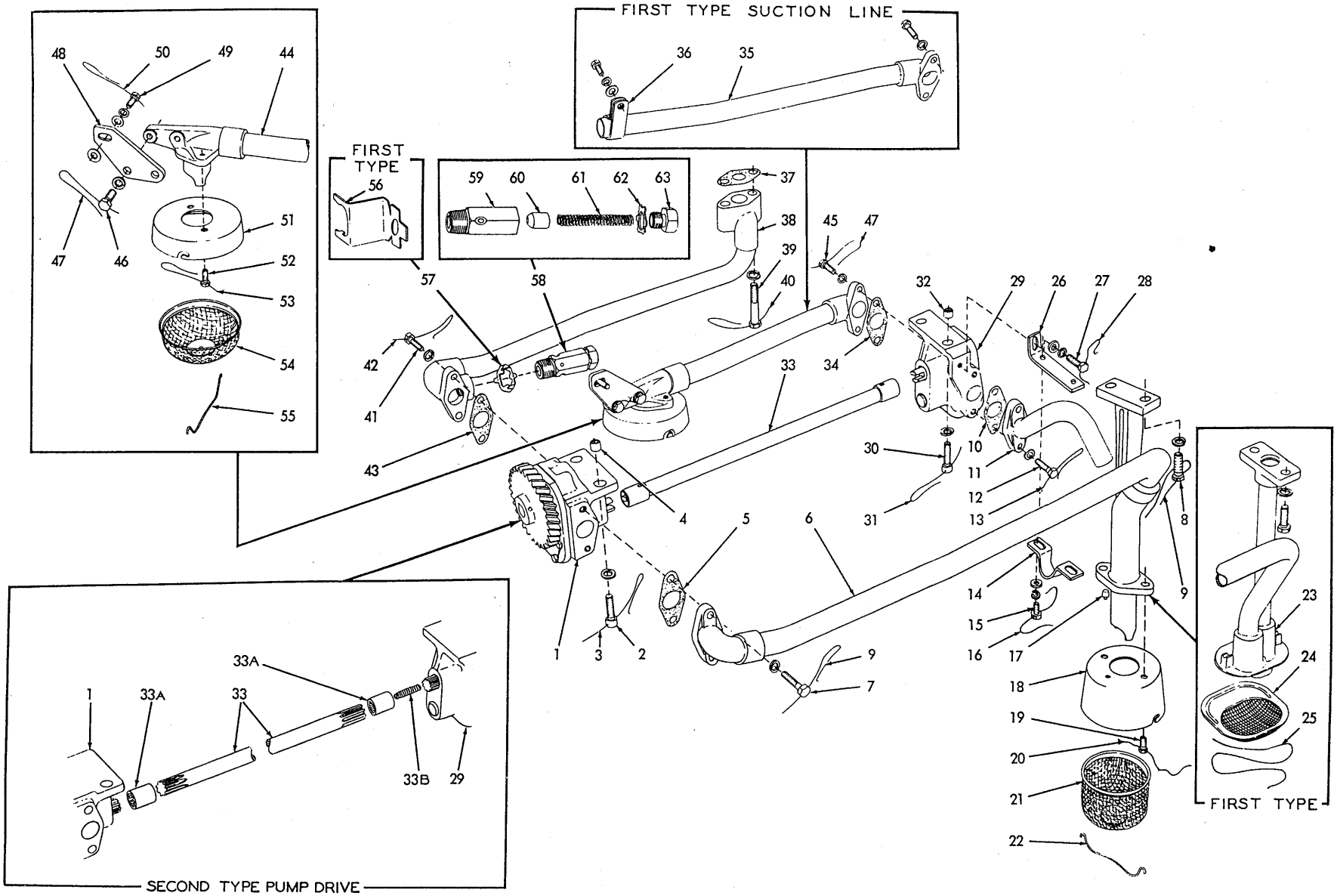
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4379123 | 1 | PAN, oil (If required for engines prior to #81455 also order PLUG 035250, GASKET 035249 and items 9 thru 11) |
| | 915666 | 28 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 910258 | 2 | CAPSCREW, 1/2"NC x 6" |
| | 904208 | 30 | LOCKWASHER, 1/2" |
| 2 | 4365129 | 1 | GASKET SET, oil pan |
| 3 | 4371289 | 1 | □ GASKET, rear clean-out hole plate |
| 4 | 4371255 | 1 | PLATE, rear clean-out hole |
| | 903630 | 8 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| 5 | 035249 | 1 | □ GASKET, rear drain plug |
| 6 | 035250 | 1 | PLUG, rear oil drain |
| 7 | 226408 | 1 | PLUG, front oil drain (7/8"NF thd.)(Engines #81455 thru #83357) |
| | 035250 | 1 | PLUG, front oil drain (1-1/2"NF thd.)(Effective with engine #83358) |
| 8 | 226012 | 1 | GASKET, front oil drain plug (7/8" I. D.)(Engines #81455 thru #83357) |
| | 035249 | 1 | □ GASKET, front oil drain plug (1-1/2"I. D.)(Effective with engine #83358) |

□ Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 9 | 4373770 | 1 | PLATE, front clean-out hole (Effective with engine #81455. If for engines prior to #83358 also order PLUG 035250 and GASKET 035249) |
| | 903630 | 8 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| 10 | 4373069 | 1 | □ GASKET, front clean-out hole plate (Effective with engine #81455) |
| 11 | 4379070 | 1 | SEAL, oil (Effective with engine #21-3208) |

□ Also see PACKAGED PARTS


FIRST TYPE SUCTION LINE
FIRST TYPE
SECOND TYPE PUMP DRIVE
FIRST TYPE
T-19497

OIL PUMPS

# OIL PUMPS

* Tractors prior to serial No. 9001 (HDS-844 series engine)
** Tractors serial No. 9001 thru No. 11000 (HDT-844 series engine)
*** Tractors serial No. 11001 and up (21000 series engine)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 4373707 | 1 | - | - | PUMP ASSEMBLY, pressure (See page 76 for parts)(Order PUMP ASSEMBLY 4389941) |
| | 4389941 | - | 1 | 1 | PUMP ASSEMBLY, pressure (See page 76 for parts)(Used prior to engine #21-3587) |
| | 4389980 | - | - | 1 | PUMP ASSEMBLY, pressure (See page 76 for parts) (Effective with engine #21-3587) |
| 2 | 912274 | 2 | - | - | CAPSCREW, socket-hd., 7/16"NC x 1-1/2" |
| | 4374547 | - | 2 | 2 | CAPSCREW, drilled-socket-hd., 7/16"NC x 1-1/2" |
| | 904207 | 2 | 2 | 2 | LOCKWASHER, 7/16" |
| 3 | 4509035 | - | 1 | 1 | WIRE, locking, #18 x 10" |
| 4 | 4371253 | 2 | 2 | 2 | DOWEL, hollow, pressure pump |
| 5 | 4371345 | 1 | 1 | 1 | □GASKET, pressure pump suction line |
| 6 | 4377167 | - | 1 | 1 | LINE, suction, pressure pump |
| 7 | 4378558 | - | 2 | 2 | CAPSCREW, drilled-hd., 3/8"NC x 1-1/8" |
| | 904206 | - | 2 | 2 | LOCKWASHER, 3/8" |
| 8 | 4377201 | - | 2 | 2 | CAPSCREW, drilled-hd., 7/16"NC x 1-1/4" |
| | 904207 | - | 2 | 2 | LOCKWASHER, 7/16" |
| 9 | 4509035 | - | 2 | 2 | WIRE, locking, #18 x 10" |
| 10 | 4371345 | 1 | 1 | 1 | □GASKET, discharge line |
| 11 | 4375632 | 1 | 1 | 1 | LINE, discharge, scavenging pump |
| 12 | 910211 | 2 | - | - | CAPSCREW, 3/8"NC x 1-1/8" |
| | 4378558 | - | 2 | 2 | CAPSCREW, drilled-hd., 3/8"NC x 1-1/8" |
| | 904206 | 2 | 2 | 2 | LOCKWASHER, 3/8" |
| 13 | 4509035 | - | 1 | 1 | WIRE, locking, #18 x 10" |
| 14 | 4371293 | 1 | 1 | 1 | CLAMP, pressure pump suction line |
| 15 | 905656 | 2 | - | - | CAPSCREW, 1/4"NC x 5/8" |
| | 4377056 | - | 2 | 2 | CAPSCREW, drilled-hd., 1/4"NC x 5/8" |
| | 904204 | 2 | 2 | 2 | LOCKWASHER, 1/4" |
| | 911114 | 2 | 2 | 2 | WASHER, plain, SAE std., 1/4" |
| 16 | 4348691 | - | 2 | 2 | WIRE, locking, #18 x 6" |
| 17 | 4374166 | - | 1 | - | PIN, locating, oil pump screen cover (Used prior to engine #21-2473) |
| 18 | 4389732 | - | 1 | 1 | COVER, pressure pump oil screen |
| 19 | 4374129 | - | 2 | 2 | CAPSCREW, drilled-hd., 5/16"NC x 3/4" |
| 20 | 4509035 | - | 1 | 1 | WIRE, locking, #18 x 10" |
| 21 | 4374127 | - | 1 | 1 | SCREEN, pressure oil pump |
| 22 | 4376294 | - | 1 | 1 | RETAINER, pressure oil pump screen |
| 23 | ------ | 1 | - | - | LINE, suction, pressure pump (Order item 6 and items 17 thru 22) |
| | 910211 | 2 | - | - | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904706 | 2 | - | - | CAPSCREW, 7/16"NC x 1-1/4" |
| | 904206 | 2 | - | - | LOCKWASHER, 3/8" |
| | 904207 | 2 | - | - | LOCKWASHER, 7/16" |

□Also see PACKAGED PARTS

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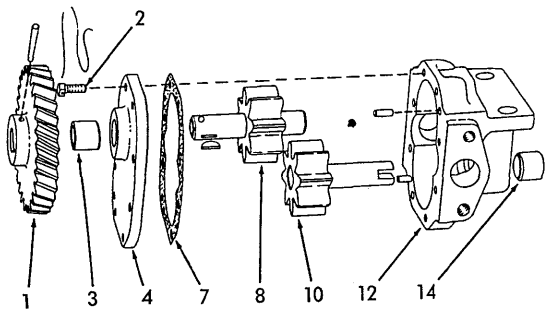
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 24 | 4500270 | 1 | - | - | SCREEN, oil |
| 25 | 4374018 | 1 | - | - | WIRE, oil screen retaining (1/16" x 20") |
| 26 | 4371281 | 1 | 1 | 1 | BRACKET, suction line clamp |
| 27 | 903771 | 1 | - | - | CAPSCREW, 5/16"NC x 7/8" |
| | 4335600 | - | 1 | 1 | CAPSCREW, drilled-hd., 5/16"NC x 7/8" |
| | 904205 | 1 | 1 | 1 | LOCKWASHER, 5/16" |
| | 910335 | 1 | 1 | 1 | WASHER, plain, SAE std., 5/16" |
| 28 | 4348691 | - | 1 | 1 | WIRE, locking, #18 x 6" |
| 29 | 4371297 | 1 | 1 | - | PUMP ASSEMBLY, scavenging (See page 77 for parts) (Order PUMP ASSEMBLY 4376829) |
| | 4376829 | - | - | 1 | PUMP ASSEMBLY, scavenging (See page 77 for parts) (Used prior to engine #21-3587) |
| | 4389979 | - | - | 1 | PUMP ASSEMBLY, scavenging (See page 77 for parts) (Effective with engine #21-3587) |
| 30 | 912274 | 2 | - | - | CAPSCREW, socket-hd., 7/16"NC x 1-1/2" |
| | 4374547 | - | 2 | 2 | CAPSCREW, drilled-socket-hd., 7/16"NC x 1-1/2" |
| | 904207 | 2 | 2 | 2 | LOCKWASHER, 7/16" |
| 31 | 4509035 | - | 1 | 1 | WIRE, locking, #18 x 10" |
| 32 | 4371253 | 2 | 2 | 2 | DOWEL, hollow, scavenging pump |
| 33 | 4379834 | 1 | 1 | 1 | SHAFT ASSEMBLY, scavenging pump drive (1 shaft, 2 sleeves and 2 pins)(Used prior to engine #21-3587) |
| | 4385537 | - | - | 1 | SHAFT ASSEMBLY, scavenging pump drive (Effective with engine #21-3587) |
| 33A | 4385536 | - | - | 2 | COUPLING, splined, scavenging pump drive (Effective with engine #21-3587) |
| 33B | 4385715 | - | - | 1 | SPRING, pump drive shaft (Effective with engine #21-3587) |
| 34 | 4371345 | 1 | 1 | 1 | □GASKET, scavenging pump suction line |
| 35 | 4375629 | 1 | - | - | LINE, suction, scavenging pump |
| | 910211 | 2 | - | - | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 2 | - | - | LOCKWASHER, 3/8" |
| 36 | 4371274 | 1 | - | - | CLAMP, scavenging pump discharge line |
| | 903771 | 1 | - | - | CAPSCREW, 5/16"NC x 7/8" |
| | 904205 | 1 | - | - | LOCKWASHER, 5/16" |
| | 910335 | 1 | - | - | WASHER, plain, SAE std., 5/16" |
| 37 | 4660423 | 1 | 1 | 1 | □GASKET, discharge line to block |
| 38 | 4375613 | 1 | 1 | 1 | TUBE, pressure pump discharge |
| 39 | 903781 | 2 | - | - | CAPSCREW, 1/2"NC x 2-3/4" |
| | 4374499 | - | 2 | 2 | CAPSCREW, drilled-hd., 1/2"NC x 2-3/4" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| 40 | 4348691 | - | 1 | 1 | WIRE, locking, #18 x 6" |
| 41 | 910211 | 2 | - | - | CAPSCREW, 3/8"NC x 1-1/8" |
| | 4378558 | - | 2 | 2 | CAPSCREW, drilled-hd., 3/8"NC x 1-1/8" |
| | 904206 | 2 | 2 | 2 | LOCKWASHER, 3/8" |
| 42 | 4509035 | - | 1 | 1 | WIRE, locking, #18 x 10" |

□Also see PACKAGED PARTS (Continued)

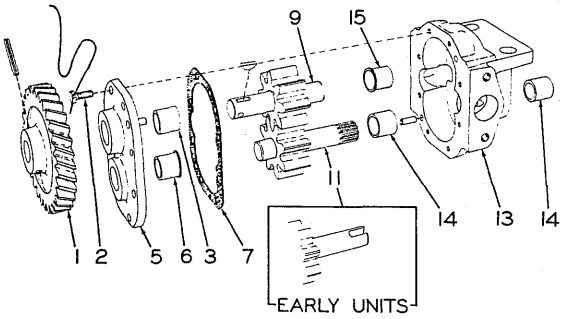
## OIL PUMPS (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 43 | 4371345 | 1 | 1 | 1 | □ GASKET, discharge line to pump |
| 44 | 4375566 | - | 1 | 1 | TUBE, suction, scavenging pump |
| 45 | 4378558 | - | 2 | 2 | CAPSCREW, drilled-hd., 3/8"NC x 1-1/8" |
| 46 | 4335610 | - | 2 | 2 | CAPSCREW, drilled-hd., 3/8"NC x 1" |
| | 904206 | - | 4 | 4 | LOCKWASHER, 3/8" |
| 47 | 4509035 | - | 2 | 2 | WIRE, locking, #18 x 10" |
| 48 | 4373894 | - | 1 | 1 | BRACKET, supporting, scavenging pump suction tube |
| 49 | 4335600 | - | 1 | 1 | CAPSCREW, drilled-hd., 5/16"NC x 7/8" |
| | 910335 | - | 2 | 2 | WASHER, plain, SAE std., 5/16" |
| | 904205 | - | 1 | 1 | LOCKWASHER, 5/16" |
| 50 | 4348691 | - | 1 | 1 | WIRE, locking, #18 x 6" |
| 51 | 4348684 | - | 1 | 1 | COVER, scavenging pump screen |
| 52 | 4374129 | - | 2 | 2 | CAPSCREW, drilled-hd., 5/16"NC x 3/4" |
| 53 | 4509035 | - | 1 | 1 | WIRE, locking, #18 x 10" |
| 54 | 4348683 | - | 1 | 1 | SCREEN, scavenging oil pump |
| 55 | 4348682 | - | 1 | 1 | RETAINER, scavenging oil pump screen |
| 56 | 4372780 | 1 | - | - | LOCK, oil pressure relief valve (Used prior to engine #81201) |
| 57 | 4347938 | 1 | 1 | 1 | LOCK, oil pressure relief valve (Effective with engine #81201) |
| 58 | 4339204 | 1 | 1 | 1 | VALVE ASSEMBLY, oil pressure relief (Consists of items 59 thru 63) |
| 59 | ------ | 1 | 1 | 1 | BODY, oil pressure relief valve (Not serviced separately) |
| 60 | ------ | 1 | 1 | 1 | PISTON, oil pressure relief valve (Not serviced separately) |
| 61 | ------ | 1 | 1 | 1 | SPRING, oil pressure relief valve (2-57/64" long)(Original equipment. Order SPRING 4339193 and CAP 4339203) |
| | 4339193 | 1 | 1 | 1 | SPRING, oil pressure relief valve (3-3/64" long)(Service replacement) |
| 62 | 4374564 | 1 | 1 | 1 | WASHER, locking, relief valve cap |
| 63 | 4386525 | 1 | 1 | 1 | CAP, pressure relief valve body (Original equipment) |
| | 4339203 | 1 | 1 | 1 | CAP, pressure relief valve body (Used with service replacement SPRING 4339193 only) |

□Also see PACKAGED PARTS




FIRST TYPE T-27472



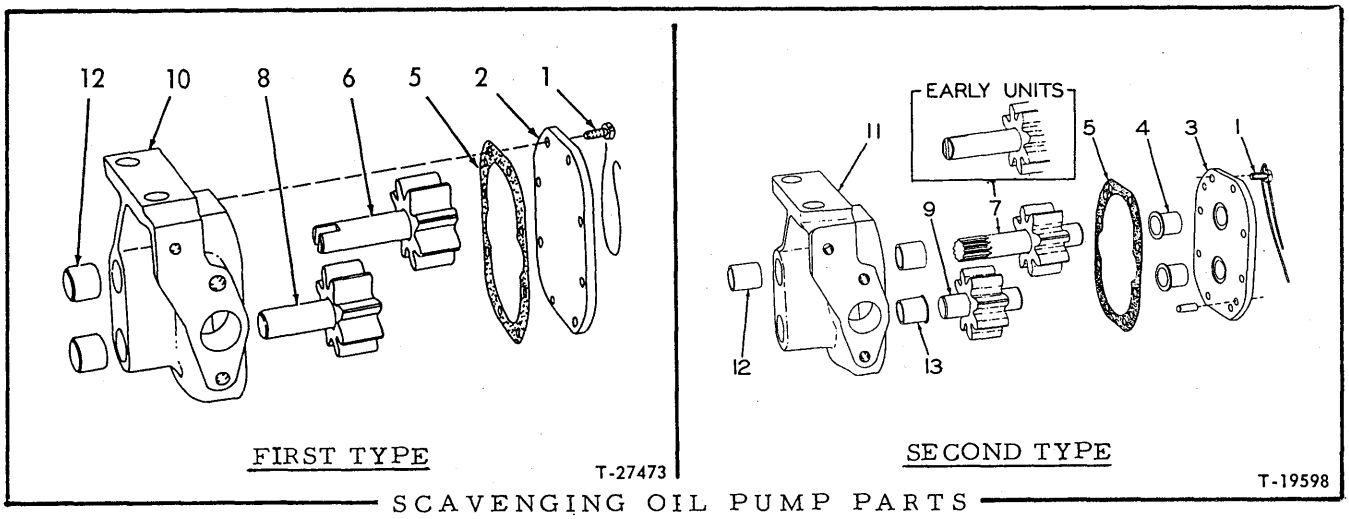

SECOND TYPE T-19597

PRESSURE OIL PUMP PARTS

USAGE: See page 73

* PUMP ASSEMBLY 4373707
** PUMP ASSEMBLY 4389941
*** PUMP ASSEMBLY 4389980

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 4371937 | 1 | - | - | GEAR, driving (Used prior to engine #83816) |
| | 900636 | 1 | - | - | PIN, taper, #2 x 1-1/2" |
| | 910224 | 1 | - | - | KEY, #6 woodruff, 5/32" x 5/8" |
| | 4389054 | 1 | 1 | 1 | GEAR, driving (Effective with engine #83816) |
| | 915989 | 1 | 1 | 1 | PIN, roll, 3/16" x 1-3/8" |
| | 910224 | 1 | 1 | 1 | KEY, #6 woodruff, 5/32" x 5/8" |
| 2 | 4377056 | 8 | 8 | 8 | CAPSCREW, pump cover |
| | 4353538 | 4 | 4 | 4 | WIRE, locking, 1/16" x 8" |
| 3 | 4371270 | 1 | 1 | 1 | BUSHING, pump cover (plain) |
| 4 | 4373708 | 1 | - | - | COVER ASSEMBLY (Includes item 3) |
| | 917555 | 2 | - | - | PIN, dowel, 1/4" x 5/8" |
| 5 | 4377037 | - | 1 | 1 | COVER ASSEMBLY (Includes items 3 and 6) |
| | 917555 | - | 2 | 2 | PIN, dowel, 1/4" x 5/8" |
| 6 | 4377038 | - | 1 | 1 | BUSHING, pump cover (flanged) |
| 7 | 4371300 | 1 | 1 | 1 | GASKET, cover |
| 8 | 4373706 | 1 | - | - | SHAFT AND GEAR ASSEMBLY, upper (If for engines prior to #83816 also order 1 GEAR 4375546 and 1 PIN 915989) |
| 9 | 4389939 | - | 1 | - | SHAFT AND GEAR ASSEMBLY, upper |
| | 4379414 | - | - | 1 | SHAFT AND GEAR ASSEMBLY, upper |
| 10 | 4371318 | 1 | - | - | SHAFT AND GEAR ASSEMBLY, lower |
| 11 | 4379444 | - | 1 | - | SHAFT AND GEAR ASSEMBLY, lower |
| | 4379415 | - | - | 1 | SHAFT AND GEAR ASSEMBLY, lower |
| 12 | 4371250 | 1 | - | - | BODY ASSEMBLY (Includes item 14) |
| 13 | 4376776 | - | 1 | - | BODY ASSEMBLY (Includes items 14 and 15) |
| | 4379411 | - | - | 1 | BODY ASSEMBLY (Includes items 14 and 15) |
| 14 | 4371270 | 3 | 2 | 2 | BUSHING, pump body (plain) |
| 15 | 4377039 | - | 1 | 1 | BUSHING, pump body (flanged) |

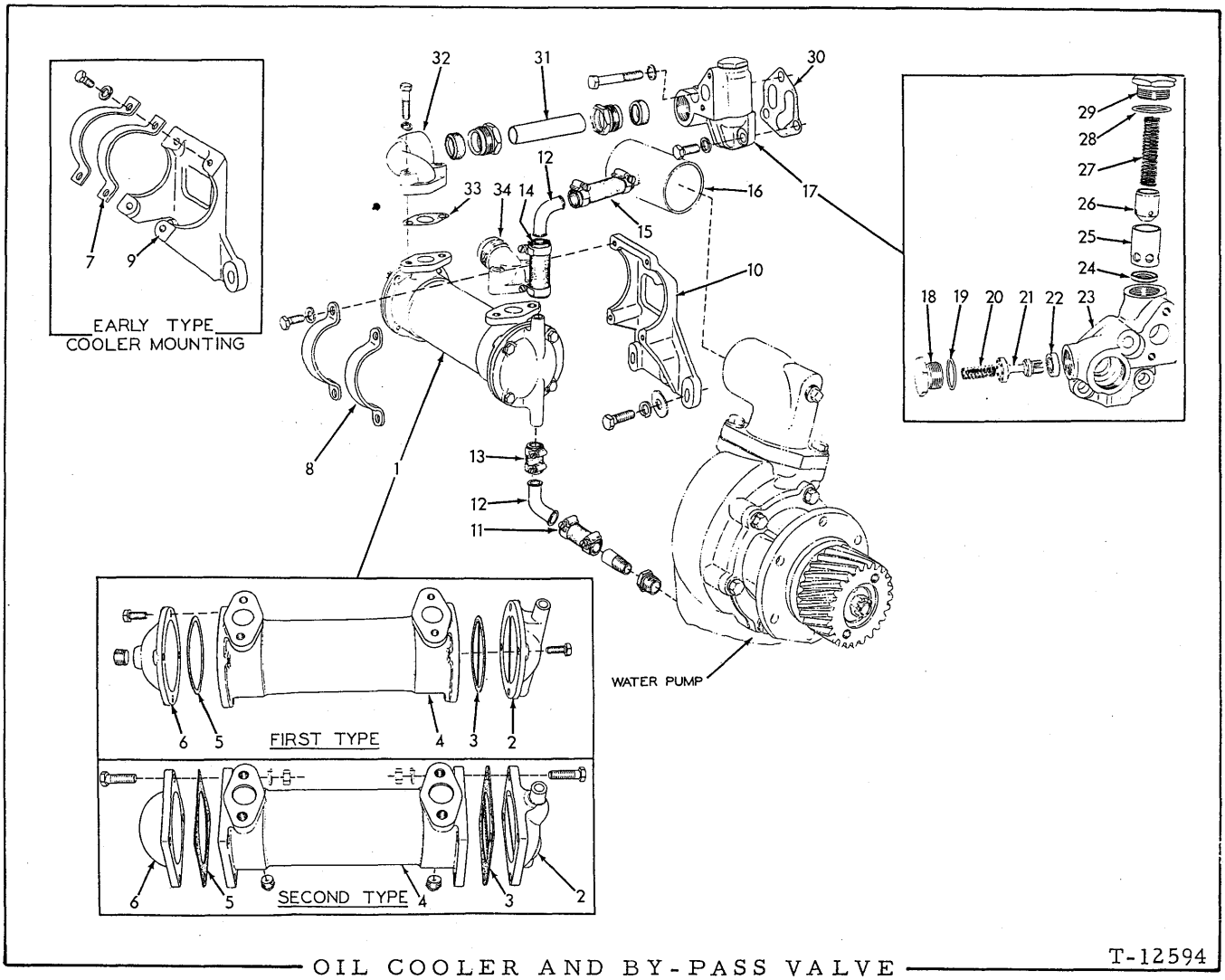



SCAVENGING OIL PUMP PARTS

USAGE: See page 73

* PUMP ASSEMBLY 4371297
** PUMP ASSEMBLY 4376829
*** PUMP ASSEMBLY 4389979

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 4377056 | 8 | 8 | 8 | CAPSCREW, pump cover |
| | 4353538 | 4 | 4 | 4 | WIRE, locking, 1/16" x 8" |
| 2 | 4371252 | 1 | - | - | COVER |
| 3 | 4377050 | - | 1 | 1 | COVER ASSEMBLY (Includes item 4) |
| | 917555 | - | 2 | 2 | PIN, dowel, 1/4" x 5/8" |
| 4 | 4377039 | - | 2 | 2 | BUSHING, pump cover |
| 5 | 4371300 | 1 | 1 | 1 | GASKET, pump cover |
| 6 | 4371318 | 1 | - | - | SHAFT AND GEAR ASSEMBLY, upper |
| 7 | 4379443 | - | 1 | - | SHAFT AND GEAR ASSEMBLY, upper |
| | 4379610 | - | - | 1 | SHAFT AND GEAR ASSEMBLY, upper |
| 8 | 4371313 | 1 | - | - | SHAFT AND GEAR ASSEMBLY, lower |
| 9 | 4377054 | - | 1 | 1 | SHAFT AND GEAR ASSEMBLY, lower |
| 10 | ------ | 1 | - | - | BODY ASSEMBLY (Includes item 12) (Order BODY ASSEMBLY 4385973 and 1 BUSHING 4371270) |
| 11 | 4385973 | - | 1 | 1 | BODY ASSEMBLY (Includes items 12 and 13) |
| 12 | 4371270 | 4 | 2 | 2 | BUSHING, pump body (plain) |
| 13 | 4377039 | - | 1 | 1 | BUSHING, pump body (flanged) |




OIL COOLER AND BY-PASS VALVE

USAGE: Tractors prior to serial No. 9001 (HDS-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4376934 | 1 | COOLER, lubricating oil (Consists of items 2 thru 6) |
| 2 | 4040007 | 1 | BONNET, front (For first type cooler with round flange) |
| | 903626 | 4 | CAPSCREW, 5/16"NC x 3/4" |
| 2 | 4041520 | 1 | BONNET, front (For second type cooler with square flange) |
| | 903631 | 4 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 910324 | 4 | NUT, 3/8"NC |
| 3 | 4040009 | 1 | GASKET, front bonnet (For first type cooler with round flange) |
| | 4041523 | 1 | GASKET, front bonnet (For second type cooler with square flange) |
| 4 | 4040006 | 1 | CORE, oil cooler (For first type cooler with round flange) |
| | 4376936 | 1 | CORE ASSEMBLY, oil cooler (Includes PLUGS indented below) (For second type cooler with square flange) |
| | 901653 | 2 | PLUG, pipe, 3/8"NPT |

(Continued)

## OIL COOLER AND BY-PASS VALVE (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 5 | 4040010 | 1 | GASKET, rear bonnet (For first type cooler with round flange) |
| | 4349984 | 1 | GASKET, rear bonnet (For second type cooler with square flange) |
| 6 | 4040008 | 1 | BONNET, rear (For first type cooler with round flange) |
| | 907856 | 1 | PLUG, pipe, hex-socket, 3/8"NPT |
| | 903626 | 4 | CAPSCREW, 5/16"NC x 3/4" |
| | 4375651 | 1 | BONNET, rear (For second type cooler with square flange) |
| | 903631 | 4 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 910324 | 4 | NUT, 3/8"NC |
| 7 | ------ | 2 | CLAMP, oil cooler (Used prior to engine #67012. Order item 8) |
| | 903627 | 4 | CAPSCREW, 3/8"NC x 1/2" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 8 | 4371874 | 2 | CLAMP, oil cooler (Effective with engine #67012) |
| | 903630 | 4 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 9 | ------ | 1 | BRACKET, mounting (Used prior to engine #67012. Order item 10) |
| | 903639 | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 914659 | 3 | WASHER, plain, 9/16" x 1-3/16" O. D. |
| 10 | 4371872 | 1 | BRACKET, mounting (Effective with engine #67012) |
| | 903639 | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 918232 | 3 | WASHER, plain, 9/16" x 1-3/8" O. D. |
| 11 | 4371891 | 1 | HOSE, oil cooler (5/8" I. D. x 2-1/2") |
| | 4254968 | 2 | CLAMP, hose |
| | 917026 | 1 | NIPPLE, pipe, 3/8"NPT x 1-1/2" (one end threaded) |
| | 904271 | 1 | BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT |
| 12 | 4372832 | 2 | ELBOW, oil cooler hose |
| 13 | 4612563 | 1 | HOSE, oil cooler (5/8" I. D. x 1-1/2") |
| | 4254968 | 2 | CLAMP, hose |
| 14 | 4371892 | 1 | HOSE, oil cooler (5/8" I. D. x 3") |
| | 4254968 | 2 | CLAMP, hose |
| 15 | 4372236 | 1 | HOSE, oil cooler (5/8"I. D. x 4-1/4") |
| | 4254968 | 2 | CLAMP, hose |
| 16 | ------ | - | TEE (See WATER INLET MANIFOLD AND HEAT EXCHANGER) |
| 17 | 4373604 | 1 | VALVE ASSEMBLY, oil cooler by-pass (Consists of items 18 thru 29) |
| | 903639 | 2 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 905668 | 1 | CAPSCREW, 1/2"NC x 3-1/4" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 18 | 4373609 | 1 | CAP, by-pass valve |
| 19 | 4115449 | 1 | GASKET, by-pass valve cap |
| 20 | 4373608 | 1 | SPRING, by-pass valve |
| 21 | 4373607 | 1 | VALVE, by-pass |

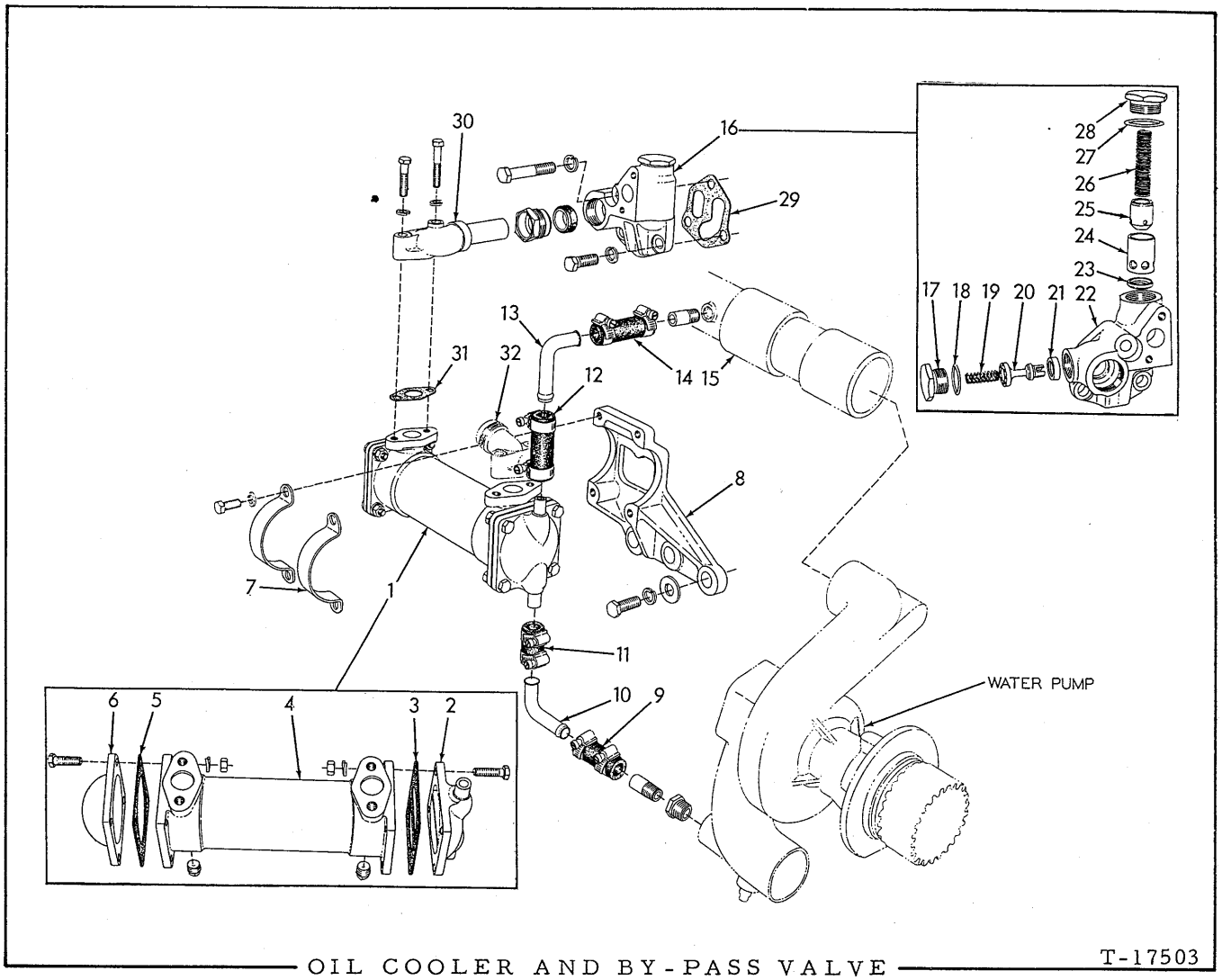
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## OIL COOLER AND BY-PASS VALVE (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 22 | 4373606 | 1 | SEAT, by-pass valve |
| 23 | 4373677 | 1 | HOUSING ASSEMBLY, by-pass valve (Includes items 22 and 24) |
| 24 | 4373614 | 1 | SEAT, check valve |
| 25 | 4373612 | 1 | SLEEVE, check valve piston |
| 26 | 4373613 | 1 | PISTON, check valve |
| 27 | 4373611 | 1 | SPRING, check valve |
| 28 | 4253751 | 1 | GASKET, check valve cap |
| 29 | 4373610 | 1 | CAP, check valve |
| 30 | 4386495 | 1 | □ GASKET, by-pass valve to block |
| 31 | 4371432 | 1 | TUBE, cooler to by-pass valve |
| | 917761 | 2 | NUT, male, Sealstic, 1" tube |
| | 917770 | 1 | RING, Sealastic, 1" tube (Includes slip ferrule) |
| | 915535 | 1 | RING, Sealastic, 1" tube (Includes locking ferrule) |
| 32 | 4371430 | 1 | ELBOW, rear connection |
| | 903632 | 2 | CAPSCREW, 3/8"NC x 1-1/2" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 33 | 4371027 | 1 | □ GASKET, rear connection elbow |
| 34 | ------ | - | ELBOW (See OIL FILTER) |

□ Also see PACKAGED PARTS

MEMO




OIL COOLER AND BY-PASS VALVE T-17503

USAGE: Tractors serial No. 9001 thru No. 11000 (HDT-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4376934 | 1 | COOLER, lubricating oil (Consists of items 2 thru 6) |
| 2 | 4041520 | 1 | BONNET, oil cooler, front |
| | 903631 | 4 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 910324 | 4 | NUT, 3/8"NC |
| 3 | 4041523 | 1 | GASKET, front bonnet |
| 4 | 4376936 | 1 | CORE, oil cooler |
| | 901653 | 2 | PLUG, pipe, 3/8"NPT |
| 5 | 4349984 | 1 | GASKET, rear bonnet |
| 6 | 4375651 | 1 | BONNET, oil cooler, rear |
| | 903631 | 4 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 910324 | 4 | NUT, 3/8"NC |

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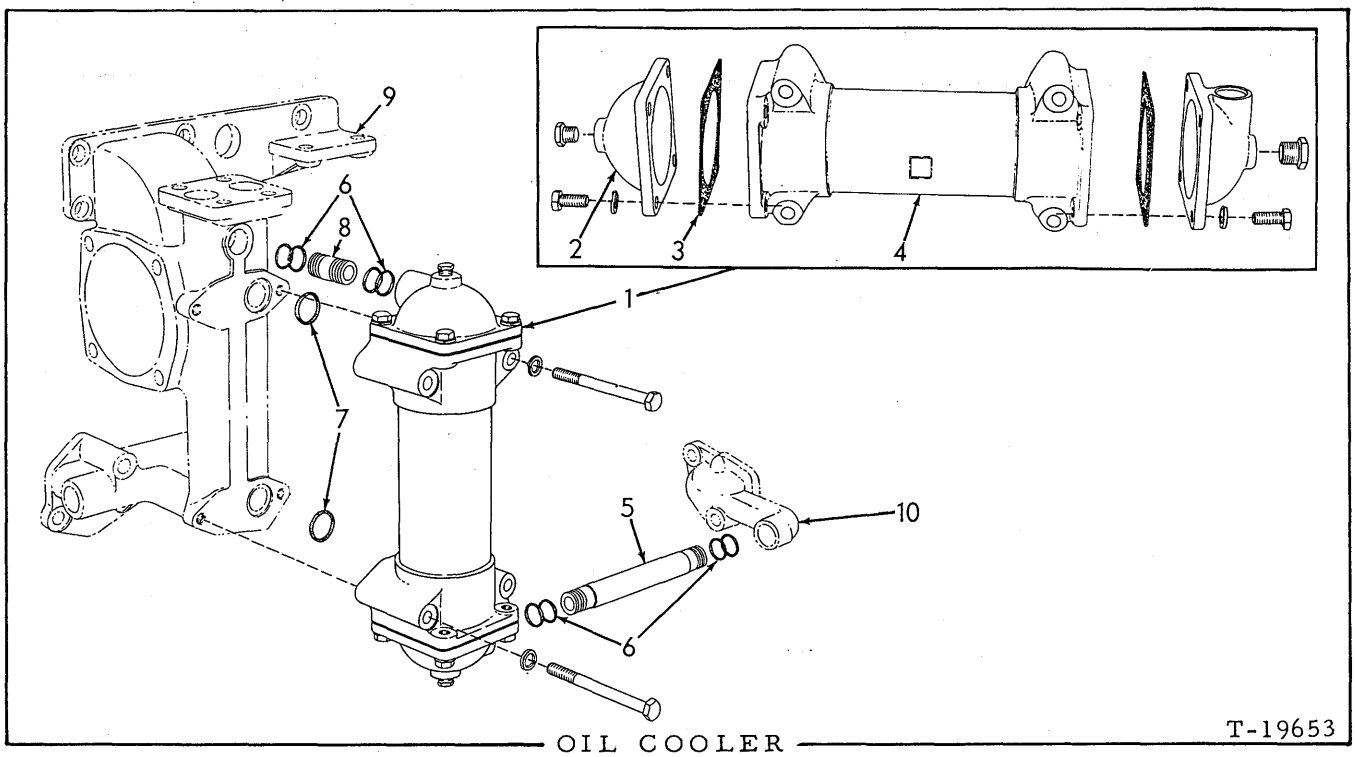
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 7 | 4371874 | 2 | CLAMP, oil cooler |
| | 903630 | 4 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 8 | 4375660 | 1 | BRACKET, mounting |
| | 903639 | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 918232 | 3 | WASHER, plain |
| 9 | 4371891 | 1 | HOSE, oil cooler (5/8"I.D. x 2-1/2") |
| | 4254968 | 2 | CLAMP, hose |
| | 917026 | 1 | NIPPLE, pipe, 3/8"NPT x 1-1/2" (One end threaded) |
| | 904271 | 1 | BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT |
| 10 | 4375704 | 1 | ELBOW, pump to cooler |
| 11 | 4371890 | 1 | HOSE, oil cooler (5/8"I.D. x 1-3/4") |
| | 4254968 | 2 | CLAMP, hose |
| 12 | 4375706 | 1 | HOSE, oil cooler (5/8"I.D. x 2-1/4") |
| | 4254968 | 2 | CLAMP, hose |
| 13 | 4375703 | 1 | ELBOW, cooler to water inlet |
| 14 | 4375705 | 1 | HOSE, oil cooler (5/8"I.D. x 2-5/8") |
| | 4254968 | 2 | CLAMP, hose |
| | 917026 | 1 | NIPPLE, pipe, 3/8"NPT x 1-1/2" (One end threaded) |
| 15 | ------ | - | INLET (See WATER INLET MANIFOLD AND HEAT EXCHANGER) |
| 16 | 4373604 | 1 | VALVE ASSEMBLY, oil cooler by-pass (Consists of items 17 thru 28) |
| | 903639 | 2 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 905668 | 1 | CAPSCREW, 1/2"NC x 3-1/4" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 17 | 4373609 | 1 | CAP, by-pass valve |
| 18 | 4115449 | 1 | GASKET, by-pass valve cap |
| 19 | 4373608 | 1 | SPRING, by-pass valve |
| 20 | 4373607 | 1 | VALVE, by-pass |
| 21 | 4373606 | 1 | SEAT, by-pass valve |
| 22 | 4373677 | 1 | HOUSING ASSEMBLY, by-pass valve (Includes items 21 and 23) |
| 23 | 4373614 | 1 | SEAT, check valve |
| 24 | 4373612 | 1 | SLEEVE, check valve piston |
| 25 | 4373613 | 1 | PISTON, check valve |
| 26 | 4373611 | 1 | SPRING, check valve |

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## OIL COOLER AND BY-PASS VALVE (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 27 | 4253751 | 1 | GASKET, check valve cap |
| 28 | 4373610 | 1 | CAP, check valve |
| 29 | 4386495 | 1 | □ GASKET, by-pass valve to block |
| 30 | 4375662 | 1 | LINE, cooler to by-pass valve |
| | 917761 | 1 | NUT, male, Sealastic, 1" tube |
| | 915535 | 1 | RING, Sealastic, 1" tube (Includes ferrule) |
| | 914499 | 1 | CAPSCREW, 3/8"NC x 1-5/8" |
| | 903634 | 1 | CAPSCREW, 3/8"NC x 2" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 31 | 4371027 | 1 | □ GASKET, rear connection elbow |
| 32 | ------- | - | ELBOW (See OIL FILTER) |

□ Also see PACKAGED PARTS

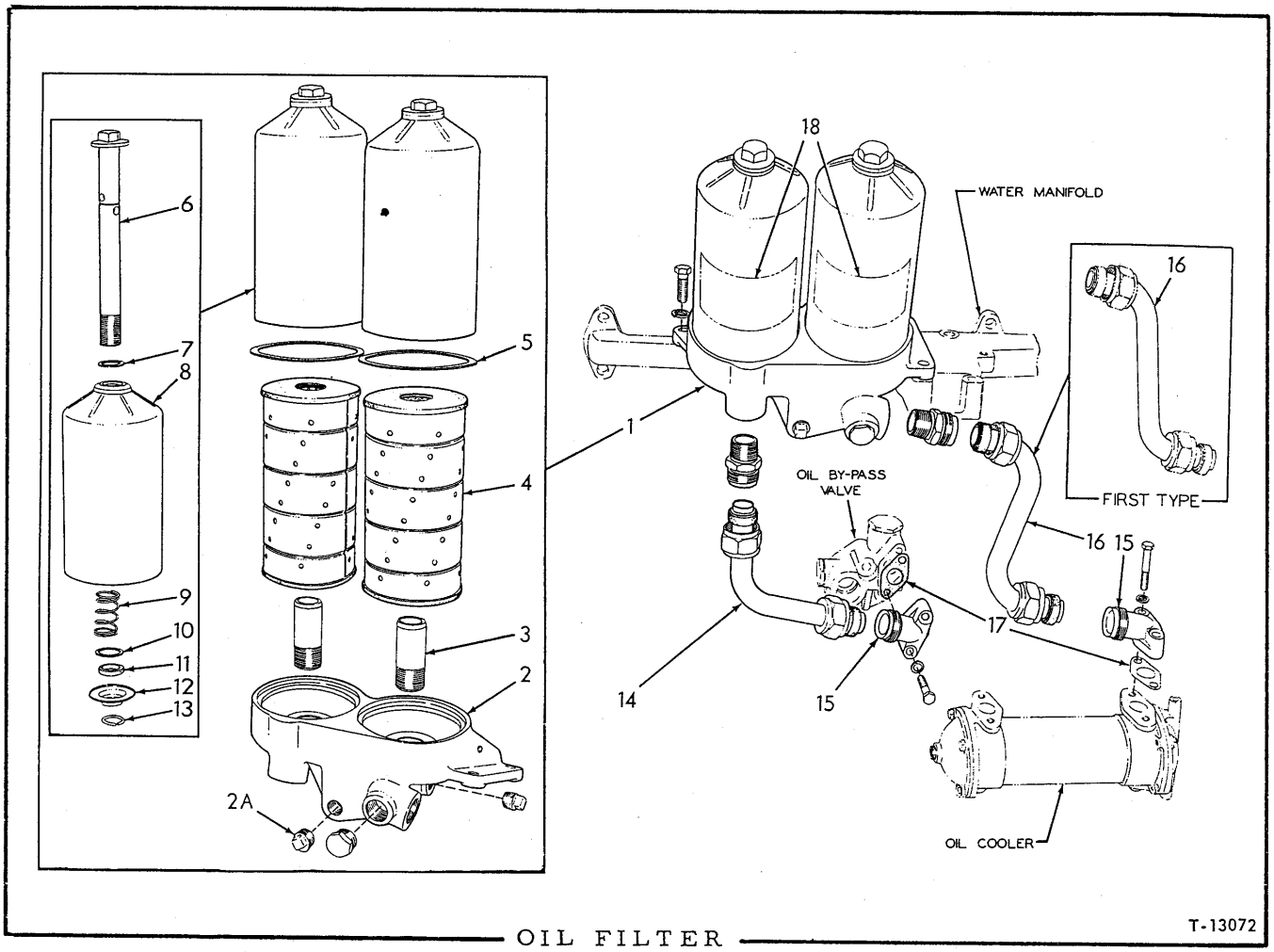



OIL COOLER

USAGE: Tractors serial No. 11001 and up (21000 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386640 | 1 | EXCHANGER ASSEMBLY, heat, lubricating oil (Consists of items 2 thru 4) |
| | 919801 | 4 | CAPSCREW, 3/8"NC x 4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 2 | 4386642 | 2 | BONNET, heat exchanger core |
| | 920333 | 2 | PLUG, pipe, hex-hd., 3/8"NPT (Used prior to engine #21-4060) |
| | 919840 | 2 | PLUG, pipe, hex-hd., 1/4"NPT (Effective with engine #21-4060) |
| | 903629 | 8 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| 3 | 4349984 | 2 | GASKET, heat exchanger core |
| 4 | 4376991 | 1 | CORE, heat exchanger |
| 5 | 4376815 | 1 | TUBE, water, heat exchanger to water pump (7-1/4" long)(Used prior to engine #21-3995) |
| | 4386864 | 1 | TUBE, water, heat exchanger to water pump (8-1/2" long)(Effective with engine #21-3995) |
| 6 | 4251984 | 8 | □ O-RING, heat exchanger water tubes |
| 7 | 4255511 | 3 | □ O-RING, heat exchanger to manifold (1-3/16" O. D.)(Used prior to engine #21-05752) |
| | 4255631 | 2 | □ O-RING, heat exchanger to manifold (1-7/16" O. D.)(Effective with engine #21-05752) |
| 8 | 4376813 | 1 | TUBE, water, heat exchanger to manifold (1-5/8" long)(Used prior to engine #21-05752) |
| | 4389129 | 1 | TUBE, water, heat exchanger to manifold (1-7/16" long)(Effective with engine #21-05752) |
| 9 | ------ | - | MANIFOLD, water and oil (See WATER INLET MANIFOLD AND HEAT EXCHANGER) |
| 10 | ------ | - | FLANGE, water by-pass (See WATER OUTLET MANIFOLD) |

□ Also see PACKAGED PARTS




OIL FILTER

USAGE: Tractors prior to serial No.11001

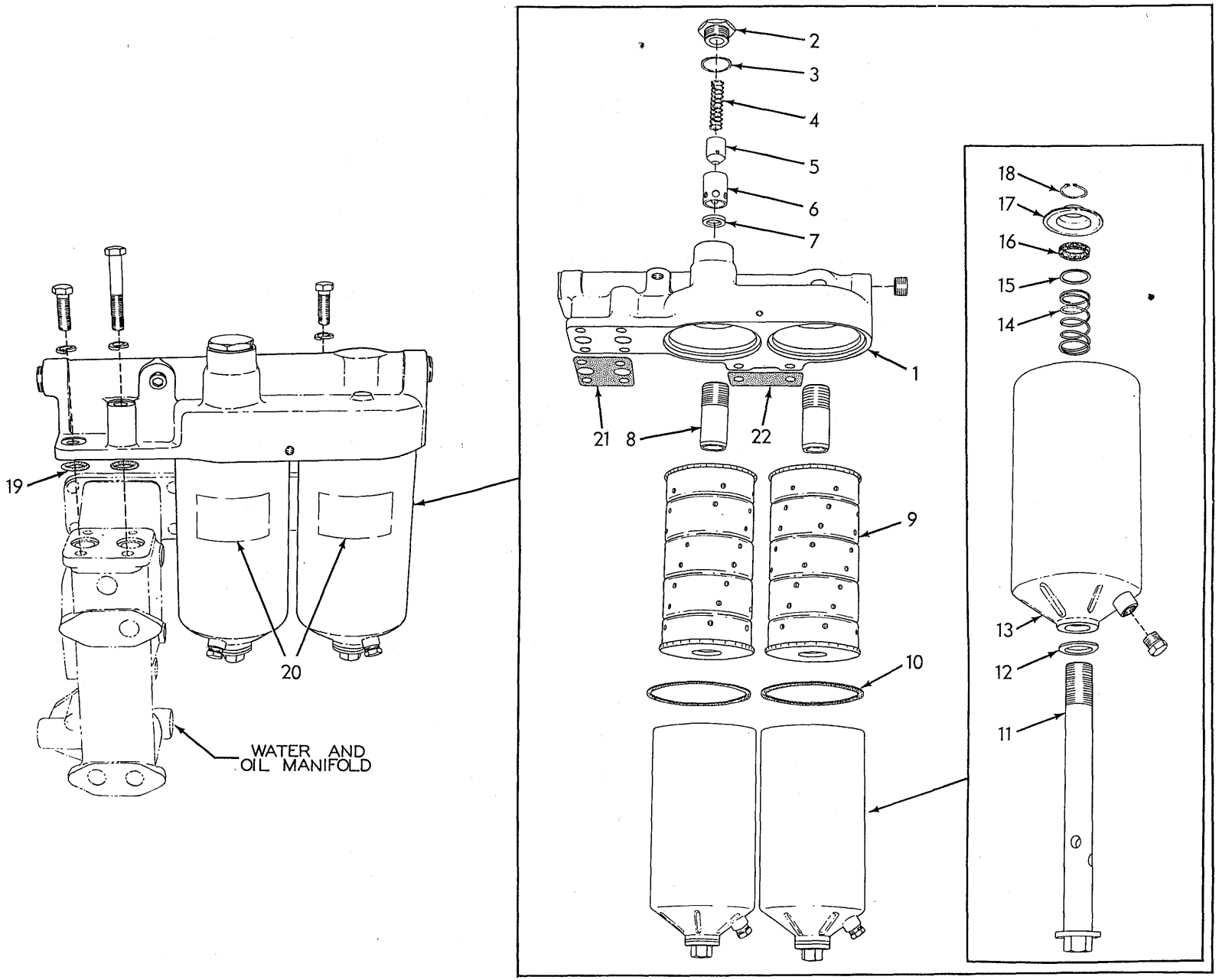
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4376143 | 1 | FILTER ASSEMBLY, lubricating oil (Consists of items 2 thru 13) |
| | 904541 | 1 | CAPSCREW, 1/2"NC x 1-3/4" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 2 | 4376056 | 1 | BASE, oil filter |
| | 920525 | 1 | PLUG, pipe, hex-hd,, 3/4"NPT |
| | 912725 | 1 | PLUG, pipe, 1/2"NPT |
| 2A | 921517 | 1 | PLUG, pipe, 1/2"NPT (Dryseal) |
| 3 | 4378307 | 2 | ADAPTER, filter center bolt |
| 4 | 4371021 | 2 | ELEMENT KIT, oil filter (Includes item 5) |
| 5 | 4372325 | 2 | GASKET, oil filter body |
| 6 | 4374735 | 2 | BOLT, center |
| 7 | 4041103 | 2 | GASKET, filter center bolt |
| 8 | 4371040 | 2 | BODY, oil filter |

(Continued)

## OIL FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 9 | 4371036 | 2 | SPRING, filter element |
| 10 | 4348268 | 2 | WASHER, filter element seal |
| 11 | 4348270 | 2 | SEAL, filter element |
| 12 | 4348269 | 2 | ADAPTER, filter element |
| 13 | 4253195 | 2 | RING, snap, filter center bolt |
| 14 | 4371405 | 1 | TUBE, oil filter to by-pass valve |
| | 917762 | 1 | CONNECTOR, Sealastic, 1" tube, 1/2"NPT male |
| | 918566 | 2 | NUT, Sealastic, 1" tube |
| | 915535 | 1 | RING, Sealastic, 1" tube (Includes locking ferrule) |
| | 917770 | 1 | RING, Sealastic, 1" tube (Includes slip ferrule) |
| 15 | 4371399 | 2 | ELBOW, line connecting |
| | 903633 | 4 | CAPSCREW, 3/8"NC x 1-3/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 16 | 4371404 | 1 | TUBE, oil filter to cooler (Used prior to tractor #9001) |
| | 4375664 | 1 | TUBE, oil filter to cooler (Effective with tractor # 9001) |
| | 917762 | 1 | CONNECTOR, Sealastic, 1" tube, 1/2"NPT male |
| | 918566 | 2 | NUT, Sealastic, 1" tube |
| | 915535 | 1 | RING, Sealastic, 1" tube (Includes locking ferrule) |
| | 917770 | 1 | RING, Sealastic, 1" tube (Includes slip ferrule) |
| 17 | 4371027 | 2 | □ GASKET, line connecting elbow |
| 18 | ------ | - | TRANSFERS (See PAINTING AND MARKING) |

□ Also see PACKAGED PARTS




T-19652

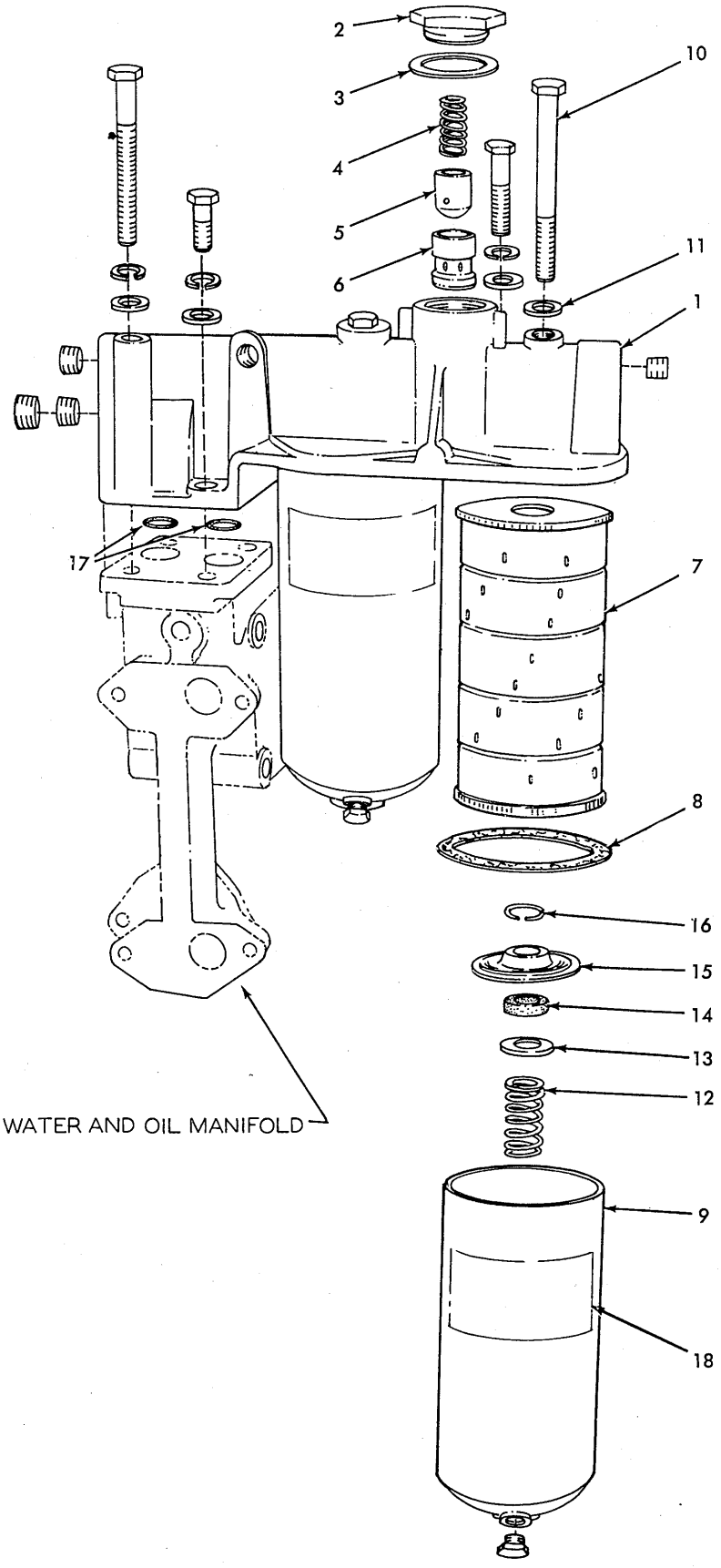
OIL FILTER (Second type)

# OIL FILTER

USAGE: Tractors serial No. 11001 and up. Original equipment. Also see page 91 for later design used on service replacement engines.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4385543 | 1 | HEAD ASSEMBLY (Includes items 2 thru 8) |
| | 918851 | 2 | PLUG, pipe, hex-socket, 3/4"NPT |
| | 915987 | 4 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 915969 | 2 | CAPSCREW, 1/2"NC x 3" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 2 | 4373610 | 1 | CAP, by-pass valve |
| 3 | 4253751 | 1 | GASKET, by-pass valve cap |
| 4 | 4335666 | 1 | SPRING, by-pass valve |
| 5 | 4373613 | 1 | PISTON, by-pass valve |
| 6 | 4373612 | 1 | SLEEVE, by-pass valve piston |
| 7 | 4373614 | 1 | SEAT, by-pass valve |
| 8 | 4378307 | 2 | ADAPTER, center bolt |
| 9 | 4371021 | 2 | ELEMENT KIT (Includes item 10) |
| 10 | 4372325 | 2 | GASKET, filter body |
| 11 | 4374735 | 2 | BOLT, center |
| 12 | 4041103 | 2 | GASKET, center bolt |
| 13 | 4335352 | 2 | BODY |
| | 918951 | 2 | PLUG, pipe, hex-hd., 3/8"NPT |
| 14 | 4371036 | 2 | SPRING, element |
| 15 | 4348268 | 2 | WASHER, element seal |
| 16 | 4348270 | 2 | SEAL, element |
| 17 | 4348269 | 2 | ADAPTER, element |
| 18 | 4253195 | 2 | RING, snap, center bolt |
| 19 | 4255511 | 2 | □O-RING, filter to manifold |
| 20 | ------ | - | TRANSFERS (See PAINTING AND MARKING) |
| | | | NOTE: Following gaskets are used only when late type oil filter head is installed on older units. Not original equipment. |
| 21 | 4388974 | 1 | GASKET, filter head to water and oil manifold |
| 22 | 4388975 | 1 | GASKET, shimming, filter head to water and oil manifold |

□Also see PACKAGED PARTS



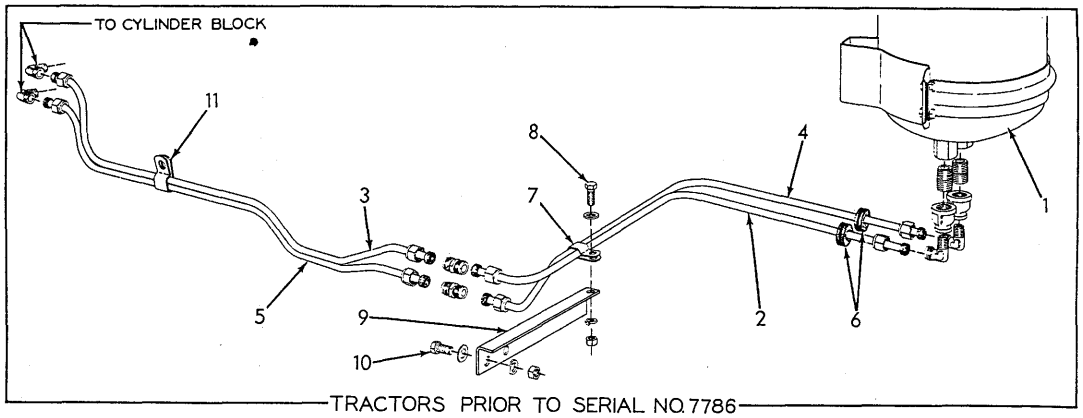

OIL FILTER (Third type)

T-70444

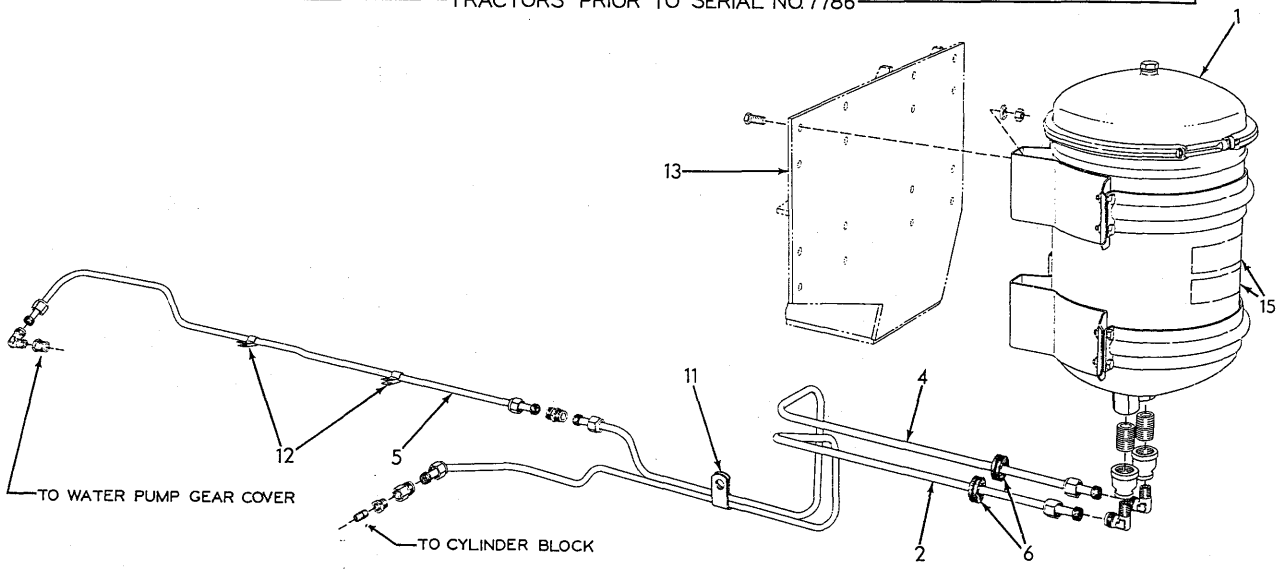
# OIL FILTER

USAGE: Furnished on service replacement engines only. See page 89 for design used as original equipment.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4388940 | 1 | HEAD ASSEMBLY (Includes items 2 thru 6; also PLUGS indented below) |
| | 918888 | 3 | PLUG, pipe, hex-socket, 1" |
| | 918697 | 1 | PLUG, pipe, hex-socket, 1-1/4" |
| | 916317 | 4 | CAPSCREW, 1/2"NC x 2-3/4" |
| | 916323 | 2 | CAPSCREW, 1/2"NC x 5-1/2" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| | 912333 | 6 | WASHER, plain |
| 2 | 4388810 | 1 | CAP, by-pass valve |
| 3 | 4388848 | 1 | GASKET, by-pass valve cap |
| 4 | 4335666 | 1 | SPRING, by-pass valve |
| 5 | 4373613 | 1 | PISTON, by-pass valve |
| 6 | 4388809 | 1 | SLEEVE, by-pass valve piston |
| 7 | 4371021 | 2 | ELEMENT KIT (Includes item 8) |
| 8 | 4372325 | 2 | GASKET, filter body |
| 9 | 4339021 | 2 | BODY |
| | 918951 | 2 | PLUG, pipe, hex-hd., 3/8"NPT |
| 10 | 4388836 | 2 | CAPSCREW, body retaining |
| 11 | 4376749 | 2 | WASHER, sealing, body retaining capscrew |
| 12 | 4379268 | 2 | SPRING, element |
| 13 | 4053410 | 2 | WASHER, element seal |
| 14 | 4053409 | 2 | SEAL, element |
| 15 | 4055971 | 2 | ADAPTOR, element |
| 16 | 4379269 | 2 | RING, snap |
| 17 | 4253106 | 2 | O-RING, filter to manifold |
| 18 | ------ | - | TRANSFER (See PAINTING AND MARKING) |




TRACTORS PRIOR TO SERIAL NO. 7786




HEAVY-DUTY OIL FILTER T-18141

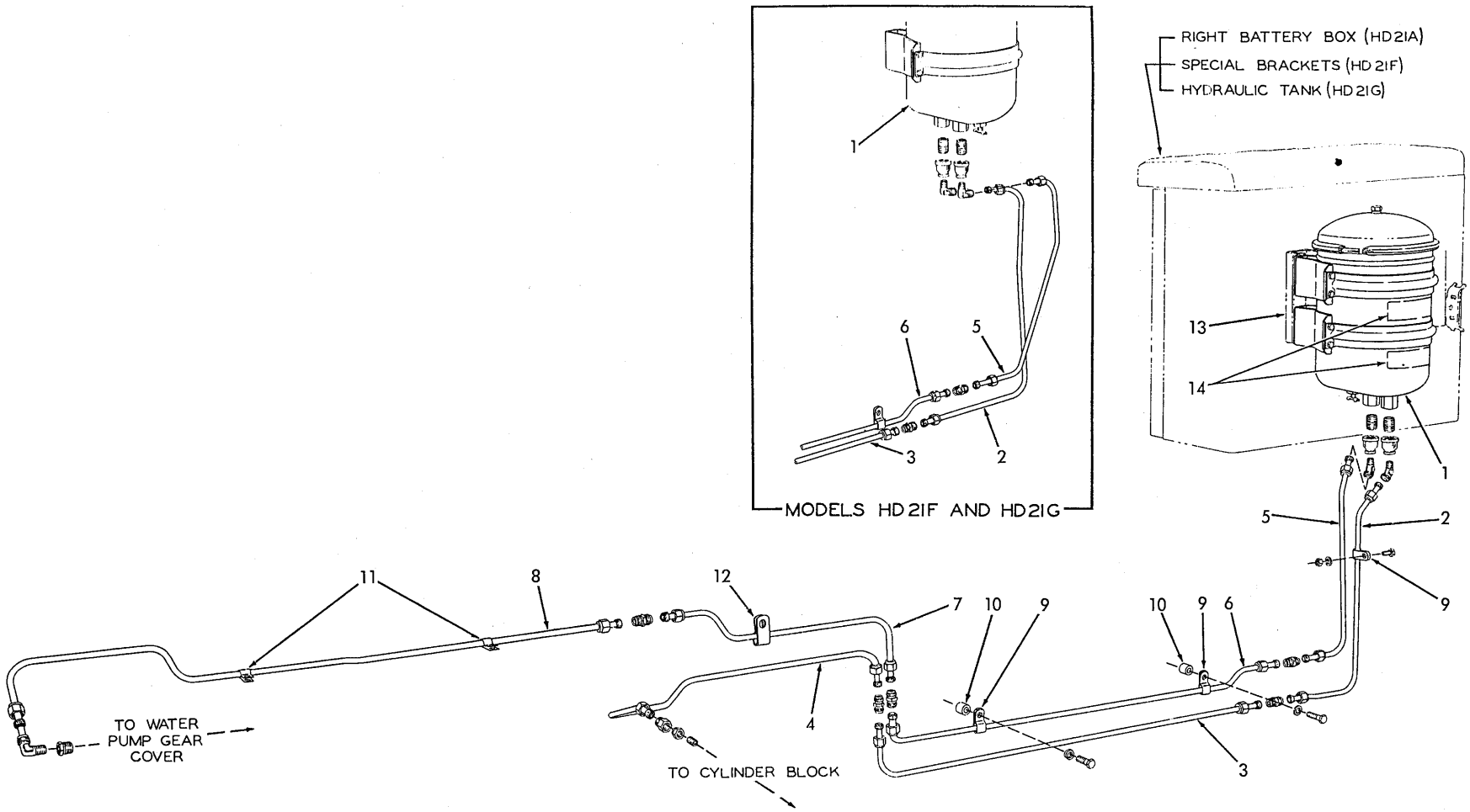
USAGE: Special equipment. Applicable to Model HD21A tractors prior to serial No. 11001 except when equipped with cab or "Allis-Chalmers" hydraulic dozer. Supplements standard oil filter. See page 95 for optional installation.

* Tractors prior to serial No. 7786
** Tractors serial No. 7786 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 082442 | 1 | 1 | FILTER ASSEMBLY, lubricating oil (See page 104 for parts) |
| | 911168 | 8 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 8 | 8 | NUT, 5/16"NF |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 2 | 083342 | 1 | - | TUBE, oil supply, rear section |
| | 087391 | - | 1 | TUBE, oil supply, rear section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube, (Includes ferrule) |
| | 915369 | 1 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| | 901500 | 1 | 1 | NIPPLE, pipe, 1/2"NPT x 1-1/8" |
| | 917772 | 1 | 1 | COUPLING, pipe reducing, 1/2"NPT to 1/4"NPT |
| | 901467 | - | 1 | NIPPLE, pipe, 1/8"NPT x 3/4" |
| | 901825 | - | 1 | BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT |
| | 915760 | - | 1 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT female |
| 3 | ------ | 1 | - | TUBE, oil supply, front section (Use item 14 as required) |
| | 918325 | 2 | - | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | - | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915386 | 1 | - | UNION, Sealastic, 3/8" tube |
| | 915369 | 1 | - | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| 4 | ------ | 1 | - | TUBE, oil return, rear section (Use item 14 as required) |
| | 087392 | - | 1 | TUBE, oil return, rear section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 901500 | 1 | 1 | NIPPLE, pipe, 1/2"NPT x 1-1/8" |
| | 917772 | 1 | 1 | COUPLING, pipe reducing, 1/2"NPT to 1/4"NPT |
| | 915369 | 1 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| 5 | 083364 | 1 | - | TUBE, oil return, front section |
| | 087102 | - | 1 | TUBE, oil return, front section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915386 | 1 | 1 | UNION, Sealastic, 3/8" tube |
| | 915369 | 1 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| | 901826 | - | 1 | BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT (Early units only) |
| 6 | 040758 | 2 | 2 | GROMMET, tube protecting (rubber) |
| 7 | 055676 | 1 | - | CLIP, tube supporting (For two 3/8" diam., tubes, 13/32" bolt-hole) |
| 8 | 035167 | 1 | - | CAPSCREW, 3/8"NF x 7/8" |
| | 900817 | 1 | - | WASHER, plain, U.S. std., 3/8" |
| | 904206 | 1 | - | LOCKWASHER, 3/8" |
| | 911041 | 1 | - | NUT, 3/8"NF |
| 9 | ------ | 1 | - | ANGLE, clip attaching (Discontinued) |
| 10 | 035167 | 2 | - | CAPSCREW, 3/8"NF x 7/8" |
| | 900817 | 2 | - | WASHER, plain, U.S. std., 3/8" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| | 911041 | 2 | - | NUT, 3/8"NF |
| 11 | 040811 | 1 | 1 | CLIP, tube supporting (For two 3/8" diam., tubes 17/32" bolt-hole) |
| 12 | 040796 | - | 2 | CLIP, tube supporting (3/8" diam., 13/32" bolt-hole) |
| 13 | ------ | 1 | 1 | BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER) |
| 14 | 065053 | - | - | TUBING, copper, 3/8" O.D., 35 ft. rool (Use as required) (Not illustrated) |
| 15 | ------ | - | - | TRANSFERS (See PAINTING AND MARKING) |




HEAVY-DUTY OIL FILTER (First type. Models HD21F, G; also HD21A with cab)

T-18142

# HEAVY-DUTY OIL FILTER

USAGE: Special equipment. Applicable to tractors prior to serial No. 11001. Supplements standard oil filter.

* Model HD21A tractors equipped with cab or "Allis-Chalmers" hydraulic dozer. See page 92 for optional installation
** Model HD21F; also Model HD21G tractors prior to serial No.9001

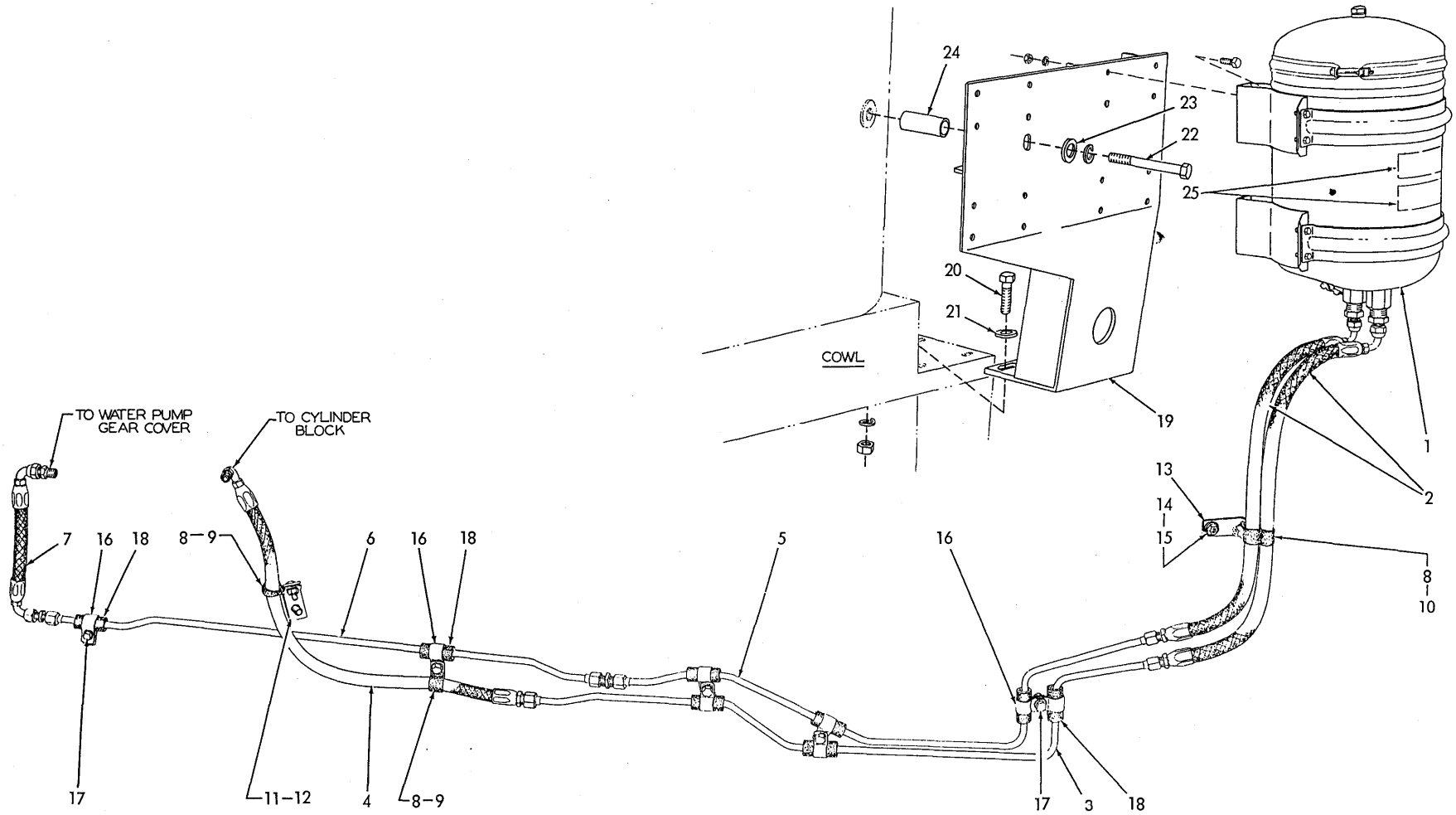
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 082442 | 1 | 1 | FILTER ASSEMBLY, lubricating oil (See page 104 for parts) |
| | 911168 | 8 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 8 | 8 | NUT, 5/16"NF |
| 2 | 083180 | 1 | - | TUBE, oil supply, rear section |
| | 087882 | - | 1 | TUBE, oil supply, rear section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915386 | 1 | 1 | UNION, Sealastic, 3/8" tube |
| | 916771 | 1 | - | ELBOW, Sealastic, 45°, 3/8" tube, 1/4"NPT male |
| | 915369 | - | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| | 917772 | 1 | 1 | COUPLING, pipe reducing, 1/2"NPT to 1/4"NPT |
| | 901500 | 1 | 1 | NIPPLE, pipe, 1/2"NPT x 1-1/8" |
| 3 | 087580 | 1 | 1 | TUBE, oil supply, center section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915386 | 1 | 1 | UNION, Sealastic, 3/8" tube |
| 4 | 087581 | 1 | 1 | TUBE, oil supply, front section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915760 | 1 | 1 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT female |
| | 901825 | 1 | 1 | BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT |
| | 901467 | 1 | 1 | NIPPLE, pipe, 1/8"NPT x 3/4" |
| 5 | 082523 | 1 | - | TUBE, oil return, rear section |
| | 087881 | - | 1 | TUBE, oil return, rear section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915386 | 1 | 1 | UNION, Sealastic, 3/8" tube |
| | 916771 | 1 | - | ELBOW, Sealastic, 45°, 3/8" tube, 1/4"NPT male |
| | 915369 | - | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| | 917772 | 1 | 1 | COUPLING, pipe reducing, 1/2"NPT to 1/4"NPT |
| | 901500 | 1 | 1 | NIPPLE, pipe, 1/2"NPT x 1-1/8" |
| 6 | 087579 | 1 | 1 | TUBE, oil return, center section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915386 | 1 | 1 | UNION, Sealastic, 3/8" tube |
| 7 | 087582 | 1 | 1 | TUBE, connecting, center and front sections |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915386 | 1 | 1 | UNION, Sealastic, 3/8" tube |
| 8 | 087102 | 1 | 1 | TUBE, oil return, front section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915369 | 1 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| | 901826 | 1 | 1 | BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT (Early units only) |

(Continued)

## HEAVY-DUTY OIL FILTER (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 9 | 055676 | 3 | 3 | CLIP, tube supporting (For two 3/8" diam. tubes, 13/32" bolt-hole) |
| | 910922 | 1 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 917125 | 2 | 2 | CAPSCREW, 3/8"NF x 1-3/8" |
| | 904206 | 3 | 3 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 10 | 065461 | 2 | 2 | BLOCK, clip spacing |
| 11 | 040796 | 2 | 2 | CLIP, tube supporting (3/8" diam., 13/32" bolt-hole) |
| 12 | 040811 | 1 | 1 | CLIP, tube supporting (For two 3/8" diam. tubes, 17/32" bolt-hole) |
| 13 | ------ | - | - | BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER) |
| 14 | ------ | - | - | TRANSFERS (See PAINTING AND MARKING) |

MEMO



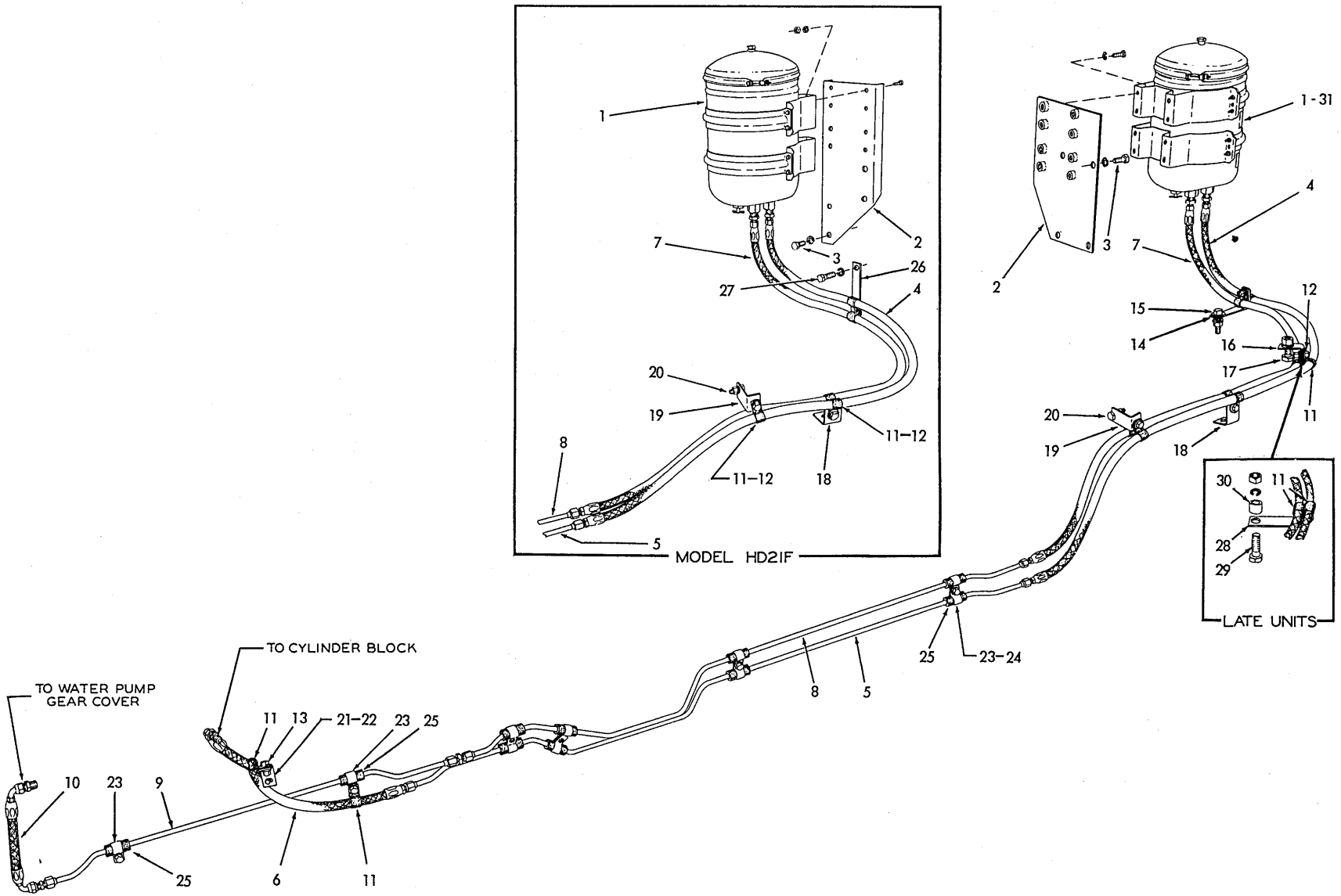

HEAVY-DUTY OIL FILTER (Second type. Model HD21A)

T-19675

# HEAVY-DUTY OIL FILTER

USAGE: Special equipment. Applicable to Model HD21A tractors serial No. 11001 and up. Supplements standard oil filter.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082442 | 1 | FILTER ASSEMBLY, lubricating oil (See page 104 for parts) |
| | 911168 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 8 | NUT, 5/16"NF |
| 2 | 095583 | 2 | HOSE ASSEMBLY, oil filter (23" long)(See page 6 for parts) for parts)(Used prior to tractor #12278) |
| | 096115 | 2 | HOSE ASSEMBLY, oil filter (39-1/2" long)(See page 6 for parts)(Effective with tractor #12278) |
| | 919127 | 2 | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male |
| 3 | 094633 | 1 | TUBE ASSEMBLY, oil supply (Includes nuts) |
| 4 | 094533 | 1 | HOSE ASSEMBLY, oil supply (See page 6 for parts) |
| | 919062 | 1 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 5 | 094634 | 1 | TUBE ASSEMBLY, oil return, rear section (Includes nuts) |
| | 919065 | 1 | UNION, flare type, 3/8" tube |
| 6 | 094632 | 1 | TUBE ASSEMBLY, oil return, front section (Includes nuts) |
| | 919065 | 1 | UNION, flare type, 3/8" tube |
| 7 | 094631 | 1 | HOSE ASSEMBLY, oil return (See page 6 for parts) |
| | 919062 | 1 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 8 | 094422 | 4 | CLIP, hose supporting |
| 9 | 036032 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| 10 | 036034 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 911115 | 4 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 3 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 11 | 096935 | 1 | ANGLE, clip attaching |
| 12 | 035221 | 1 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 13 | 094571 | 1 | ANGLE, clip attaching (Used prior to tractor #12278) |
| | 088350 | 1 | ANGLE, clip attaching (Effective with tractor #12278) |
| 14 | 036034 | 1 | CAPSCREW, 3/8"NF x 1" |
| 15 | 044973 | 1 | WASHER, plain |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 16 | 055234 | 8 | CLIP, tube supporting |
| 17 | 036032 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 18 | 093751 | 8 | BOOT, tube protecting |
| 19 | 094592 | 1 | BRACKET, filter mounting (Also mounts Heavy-duty Fuel Filter on early units)(Used prior to tractor #12278. See page 118 for mounting used on later units) |
| 20 | 035018 | 4 | CAPSCREW, 1/2"NF x 1-1/2" |
| 21 | 064531 | 4 | WASHER, plain |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 22 | 031671 | 1 | CAPSCREW, 1/2"NF x 4-1/2" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 23 | 064531 | 1 | WASHER, plain |
| 24 | 095646 | 1 | SLEEVE, bracket spacing (Used prior to tractor #12278) |
| 25 | ------ | - | TRANSFERS (See PAINTING AND MARKING) |




HEAVY-DUTY OIL FILTER (Second type. Models HD21F, G)

T-19683

# HEAVY-DUTY OIL FILTER

USAGE: Special equipment. Applicable to Models HD21F, G tractors serial No. 11001 and up. Supplements standard oil filter

* Model HD21G
** Model HD21F

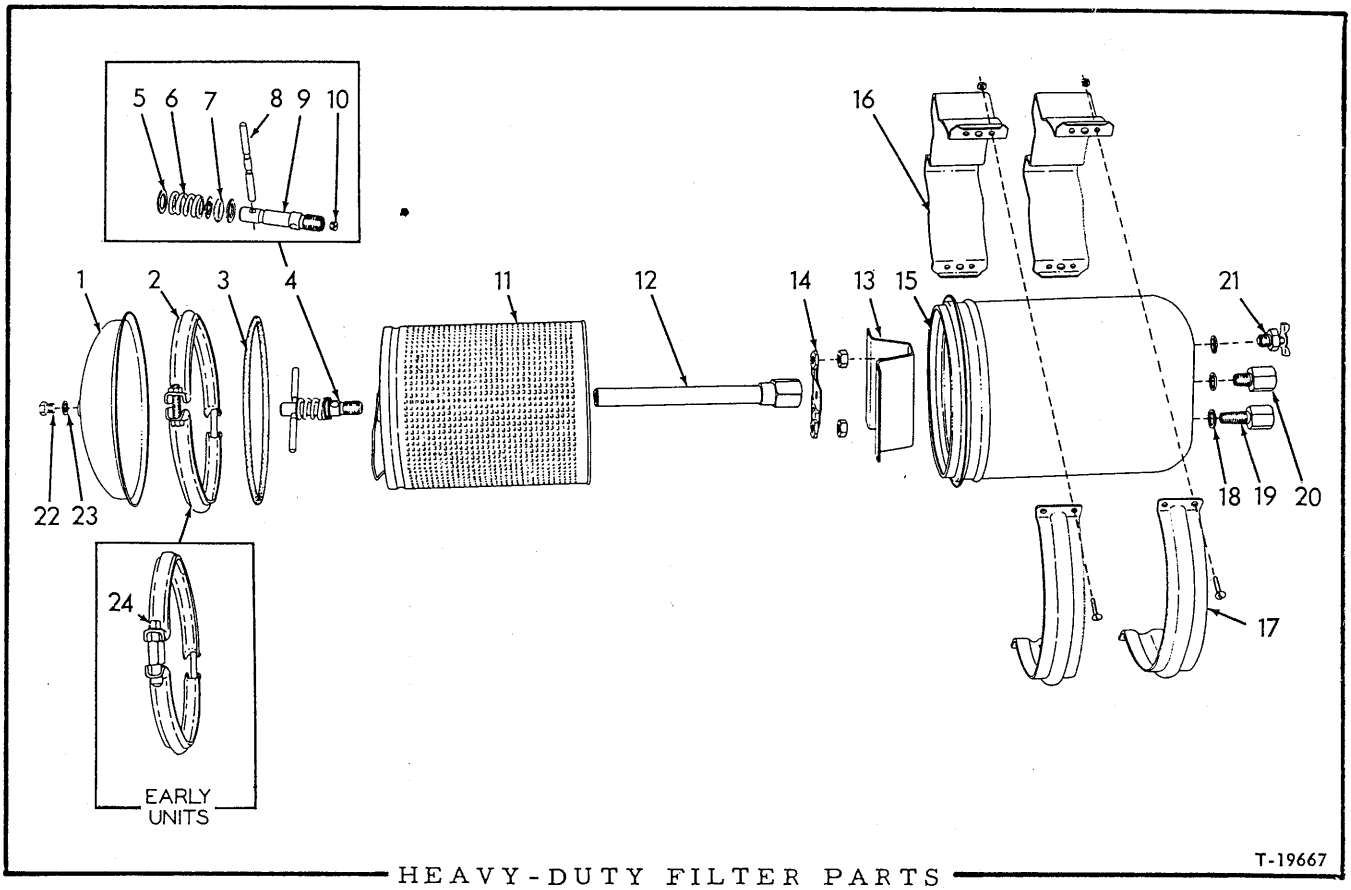
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 082442 | 1 | 1 | FILTER ASSEMBLY, lubricating oil (See page 104 for parts) |
| | 911168 | 8 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | 8 | LOCKWASHER, 5/16" |
| | 913636 | - | 8 | NUT, 5/16"NF |
| 2 | 091819 | 1 | - | BRACKET, filter mounting |
| | 094956 | - | 1 | BRACKET, filter mounting |
| 3 | 035525 | 4 | - | CAPSCREW, 1/2"NF x 1-1/8" |
| | 035061 | - | 4 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 4 | 094942 | 1 | - | HOSE ASSEMBLY, oil supply, rear (See page 6 for parts)(Used prior to tractor #12001) |
| | 623092 | 1 | - | HOSE ASSEMBLY, oil supply, rear (See page 6 for parts)(Effective with tractor #12001) |
| | 096035 | - | 1 | HOSE ASSEMBLY, oil supply, rear (See page 6 for parts)(Used prior to tractor #12001) |
| | 623093 | - | 1 | HOSE ASSEMBLY, oil supply, rear (See page 6 for parts)(Effective with tractor #12001) |
| | 919127 | 1 | 1 | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male |
| 5 | 094946 | 1 | 1 | TUBE ASSEMBLY, oil supply (Includes nuts) |
| 6 | 094533 | 1 | 1 | HOSE ASSEMBLY, oil supply, front (See page 6 parts) |
| | 919062 | 1 | 1 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 7 | 096022 | 1 | - | HOSE ASSEMBLY, oil return, rear (See page 6 for parts)(Used prior to tractor #12001) |
| | 623091 | 1 | - | HOSE ASSEMBLY, oil return, rear (See page 6 for parts)(Effective with tractor #12001) |
| | 096035 | - | 1 | HOSE ASSEMBLY, oil return, rear (See page 6 for parts)(Used prior to tractor #12001) |
| | 096022 | - | 1 | HOSE ASSEMBLY, oil return, rear (See page 6 for parts)(Effective with tractor #12001) |
| | 919127 | 1 | 1 | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male |
| 8 | 094945 | 1 | 1 | TUBE ASSEMBLY, oil return, rear section (Includes nuts) |
| | 919065 | 1 | 1 | UNION, flare type, 3/8" tube |
| 9 | 094632 | 1 | 1 | TUBE ASSEMBLY, oil return, front section (Includes nuts) |
| | 919065 | 1 | 1 | UNION, flare type, 3/8" tube |

(Continued)

## HEAVY-DUTY OIL FILTER (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 10 | 094631 | 1 | 1 | HOSE ASSEMBLY, oil return, front (See page 6 for parts) |
| | 919062 | 1 | 1 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 11 | 094422 | 10 | 8 | CLIP, hose supporting |
| 12 | 036034 | 4 | 3 | CAPSCREW, 3/8"NF x 1" |
| 13 | 036032 | 1 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 911115 | 9 | 7 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 5 | 4 | LOCKWASHER, 3/8" |
| | 911041 | 5 | 4 | NUT, 3/8"NF |
| 14 | 628063 | 1 | - | ANGLE, clip attaching |
| 15 | 035067 | 1 | - | CAPSCREW, 1/2"NF x 2" |
| | 064531 | 1 | - | WASHER, plain |
| | 904208 | 1 | - | LOCKWASHER, 1/2" |
| | 911043 | 1 | - | NUT, 1/2"NF |
| 16 | 094599 | 1 | - | ANGLE, clip attaching (Used prior to tractor #12001) |
| 17 | 023465 | 1 | - | CAPSCREW, 5/8"NF x 1-3/4" |
| | 904209 | 1 | - | LOCKWASHER, 5/8" |
| | 911044 | 1 | - | NUT, 5/8"NF |
| 18 | 088350 | 1 | 1 | ANGLE, clip attaching |
| 19 | 055372 | 1 | 1 | ANGLE, clip attaching |
| 20 | 036034 | 1 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 21 | 096935 | 1 | 1 | ANGLE, clip attaching |
| 22 | 035221 | 1 | 1 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| 23 | 055234 | 10 | 10 | CLIP, tube supporting |
| 24 | 036032 | 4 | 4 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| | 911115 | - | 1 | WASHER, plain, SAE std., 3/8" |
| 25 | 093751 | 10 | 10 | BOOT, tube protecting |
| 26 | 094957 | - | 1 | PLATE, clip attaching |
| | 070469 | - | 1 | CAPSCREW, 1/2"NF x 1-1/4" — Used prior to tractor #12001 |
| | 904208 | - | 1 | LOCKWASHER, 1/2" — Used prior to tractor #12001 |
| | 911043 | - | 1 | NUT, 1/2"NF — Used prior to tractor #12001 |
| 27 | 036034 | - | 1 | CAPSCREW, 3/8"NF x 1" — Effective with tractor #12001 |
| | 904206 | - | 1 | LOCKWASHER, 3/8" — Effective with tractor #12001 |
| | 911115 | - | 1 | WASHER, plain, SAE std., 3/8" — Effective with tractor #12001 |
| 28 | 623339 | 1 | - | ANGLE hose supporting (Effective with tractor #12001) |
| 29 | 070161 | 1 | - | CAPSCREW, 5/8"NF x 2-3/4" |
| | 904209 | 1 | - | LOCKWASHER, 5/8" |
| | 911044 | 1 | - | NUT, 5/8"NF |
| 30 | 067112 | 1 | - | BLOCK, spacing, hose supporting angle (Effective with tractor #12001) |
| 31 | ------ | - | - | TRANSFERS (See PAINTING AND MARKING) |

MEMO




HEAVY-DUTY FILTER PARTS

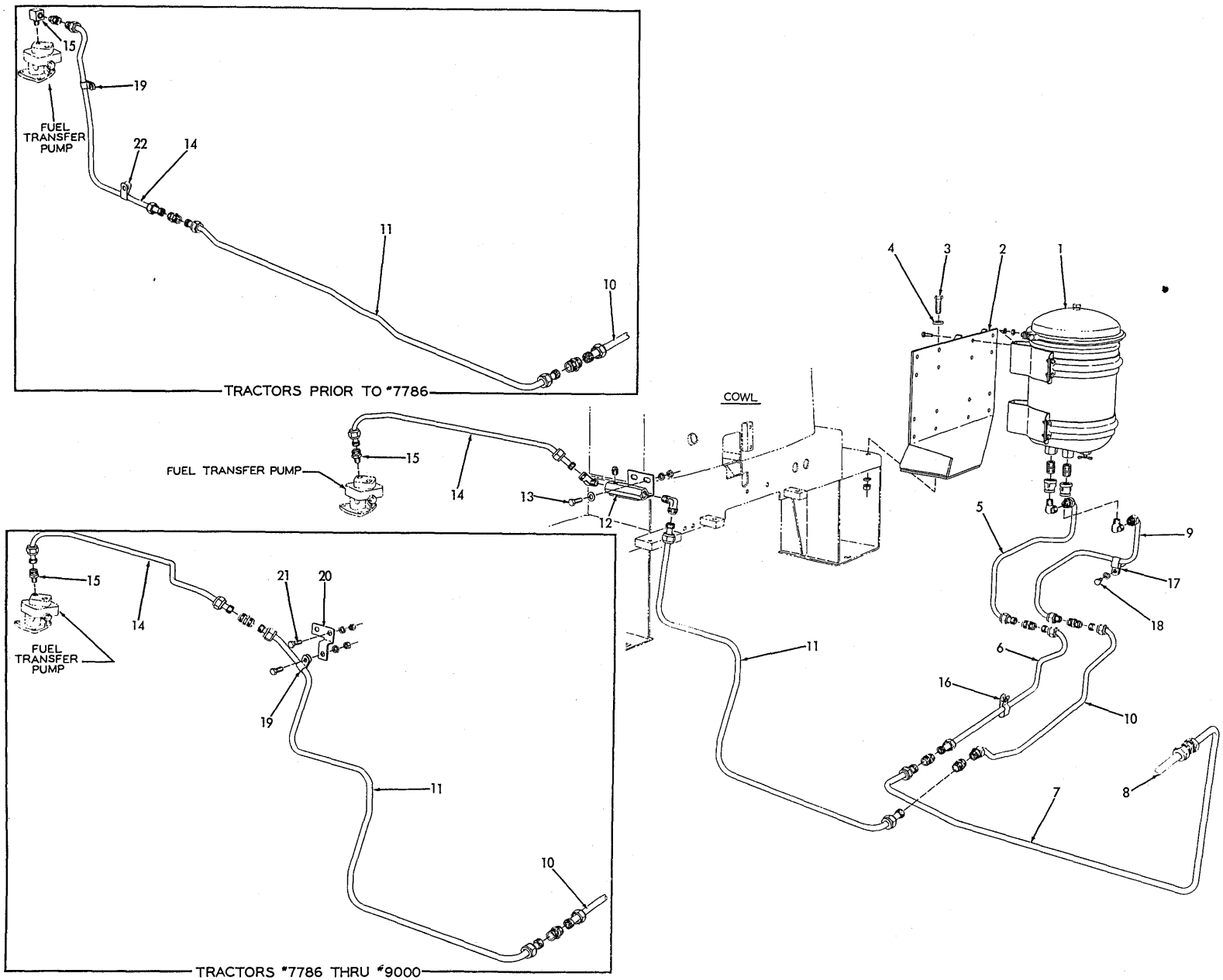
* 082441 FILTER ASSEMBLY, fuel (See pages 107 thru 119)
** 082442 FILTER ASSEMBLY, oil (See pages 92 thru 102)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 082505 | 1 | 1 | COVER |
| 2 | 630540 | 1 | 1 | RING ASSEMBLY, cover retaining |
| 3 | 082449 | 1 | 1 | GASKET, cover |
| 4 | 082492 | 1 | - | HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 9) |
| | 082493 | - | 1 | HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 10) |
| 5 | 082489 | 3 | 3 | WASHER, element hold-down |
| 6 | 082490 | 1 | 1 | SPRING, element hold-down |
| 7 | 082487 | 1 | 1 | SEAL, element hold-down |
| 8 | 082488 | 1 | 1 | HANDLE, element hold-down |
| 9 | ------ | 1 | 1 | STUD, element hold-down (Not serviced separately) |
| 10 | 082491 | - | 1 | PLUG, orifice, element hold-down |
| 11 | 091540 | 1 | 1 | ELEMENT, filtering (Original equipment) |
| | 637957 | 1 | 1 | ELEMENT, filtering (Optional) |

(Continued)

## HEAVY-DUTY FILTER PARTS (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 12 | 076668 | 1 | 1 | TUBE ASSEMBLY, outlet (Includes nut) |
| 13 | 082967 | 1 | 1 | SUPPORT, filter element (Used prior to January 1958) |
| | 096816 | 1 | 1 | SUPPORT, filter element (Effective January 1958) |
| | 911049 | 2 | 2 | NUT, jam, 5/8"NF |
| 14 | 096815 | 1 | 1 | RETAINER, element support nut (Effective January 1958) |
| 15 | ------ | 1 | 1 | HOUSING (Not serviced separately) |
| 16 | 082444 | 2 | 2 | BRACKET, mounting |
| 17 | 082443 | 2 | 2 | BAND, mounting bracket |
| | 900576 | 8 | 8 | SCREW, machine, 1/4"NC x 3/4" |
| | 911024 | 8 | 8 | NUT, 1/4"NC |
| 18 | 063891 | 3 | 3 | GASKET |
| 19 | 063890 | - | 1 | VALVE ASSEMBLY, inlet check (Includes 1 spring, 1 ring, 1 cup. Serviced only as a unit) |
| | 063889 | 1 | - | BOLT, hollow |
| 20 | 080758 | - | 1 | VALVE ASSEMBLY, outlet check (Includes 1 spring, 1 ring, 1 cup. Serviced only as a unit) |
| | 063889 | 1 | - | BOLT, hollow |
| 21 | 094167 | 1 | 1 | COCK, drain |
| 22 | 084897 | 1 | 1 | PLUG, venting |
| 23 | 084899 | 1 | 1 | WASHER, venting plug |
| 24 | 098038 | 1 | 1 | BOLT ASSEMBLY, cover retaining ring (Includes nuts)(Early units only) |




HEAVY-DUTY FUEL FILTER (First type. Model HD21A)

T-18144

# HEAVY-DUTY FUEL FILTER

USAGE: Special equipment. Applicable to Model HD21A tractors prior to serial No. 11001 except when equipped with cab or "Allis-Chalmers" hydraulic dozer. Replaces standard first stage fuel filter. See page 111 for optional installation.

* Tractors prior to serial No. 7786
** Tractors serial No. 7786 thru No. 9000
*** Tractors serial No. 9001 and up

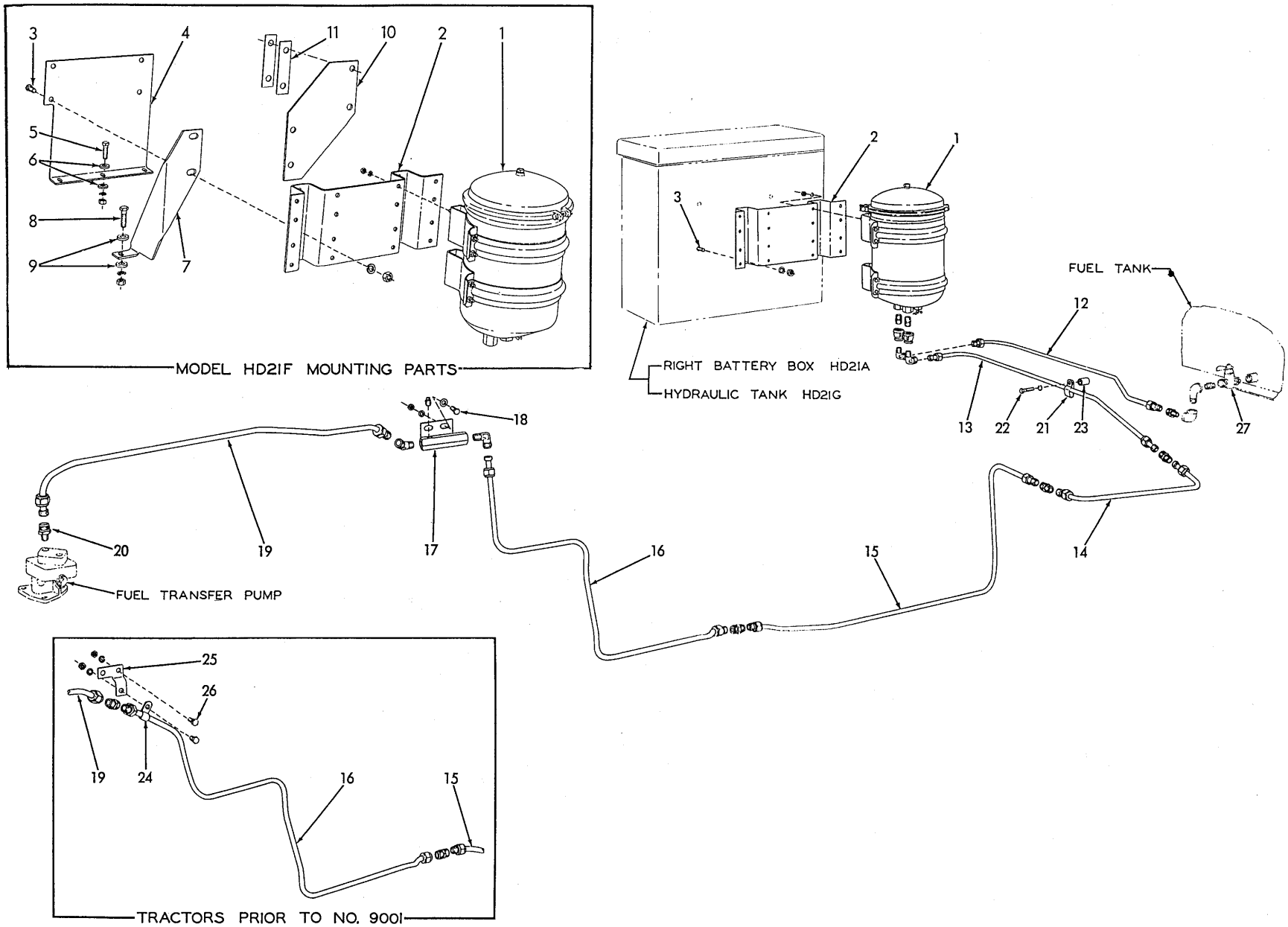
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | NOTE: See FUEL LINES for additional clips and hardware not listed here |
| 1 | 082441 | 1 | 1 | 1 | FILTER ASSEMBLY, fuel (See page 104 for parts) |
| | 911168 | 8 | 8 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | 8 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 8 | 8 | 8 | NUT, 5/16"NF |
| 2 | 083131 | 1 | 1 | 1 | BRACKET, filter mounting (Also mounts Heavy-Duty Oil Filter) |
| 3 | 035018 | 4 | 4 | 4 | CAPSCREW, 1/2"NF x 1-1/2" |
| 4 | 064531 | 4 | 4 | 4 | WASHER, plain |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | 4 | NUT, 1/2"NF |
| 5 | 074661 | 1 | 1 | 1 | TUBE, tank to filter, front section |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915380 | 1 | 1 | 1 | ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male |
| | 904227 | 1 | 1 | 1 | COUPLING, pipe reducing, 1/2"NPT to 3/8"NPT |
| | 901500 | 1 | 1 | 1 | NIPPLE, pipe, 1/2"NPT x 1-1/8" |
| 6 | 083338 | 1 | 1 | 1 | TUBE, connecting, front and center sections |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealstic, 1/2" tube (Includes ferrule) |
| | 915379 | 2 | 2 | 2 | UNION, Sealastic, 1/2" tube |
| 7 | 083337 | 1 | 1 | 1 | TUBE, tank to filter, center section |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| 8 | ------ | 1 | 1 | 1 | TUBE, tank to filter, rear section (See FUEL LINES) |
| 9 | 074663 | 1 | 1 | 1 | TUBE, filter to pump, rear section |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915380 | 1 | 1 | 1 | ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male |
| | 904227 | 1 | 1 | 1 | COUPLING, pipe reducing, 1/2"NPT to 3/8"NPT |
| | 901500 | 1 | 1 | 1 | NIPPLE, pipe, 1/2"NPT x 1-1/8" |
| 10 | 083340 | 1 | 1 | 1 | TUBE, connecting, rear and center sections |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915379 | 2 | 2 | 2 | UNION, Sealastic, 1/2" tube |
| | ------ | 1 | - | - | TUBE, filter to pump, center section (Use item 23 as required) |
| 11 | 087390 | - | 1 | - | TUBE, filter to pump, center section |
| | 093540 | - | - | 1 | TUBE, filter to pump, center section |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915379 | 1 | 1 | - | UNION, Sealastic, 1/2" tube |
| | 915380 | - | - | 1 | ELBOW, Sealastic, 90°, 1/2"NPT, 3/8"NPT male |

(Continued)

## HEAVY-DUTY FUEL FILTER (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 12 | 092801 | - | - | 1 | ADAPTER, tube connecting |
| | 901652 | - | - | 1 | PLUG, pipe, 1/4"NPT |
| 13 | 036034 | - | - | 2 | CAPSCREW, 3/8"NF x 1" |
| | 911115 | - | - | 2 | WASHER, plain, SAE std., 3/8" |
| | 904206 | - | - | 2 | LOCKWASHER, 3/8" |
| | 911041 | - | - | 2 | NUT, 3/8"NF |
| 14 | ------ | 1 | - | - | TUBE, filter to pump, front section (Use item 23 as required) |
| | 4372728 | - | 1 | 1 | LINE, filter to pump, front section |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915378 | 1 | - | - | CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male |
| | 916203 | - | - | 1 | ELBOW, Sealastic, 45°, 1/2" tube, 3/8"NPT male |
| 15 | 073068 | 1 | - | - | ELBOW, fuel tube (90°, 3/8"NPT female, 1/4"NPT male) |
| | 4254098 | - | 1 | 1 | CONNECTOR, fuel line (Sealastic, 1/2" tube, 1/4"NPT male) |
| 16 | 060660 | 1 | 1 | 1 | CLIP, tube supporting (For two 1/2" diam. tubes, 17/32" bolt-hole) |
| 17 | 059635 | 1 | 1 | 1 | CLIP, tube supporting (For two 1/2" diam. tubes, 13/32" bolt-hole) |
| 18 | 035167 | 1 | 1 | 1 | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 1 | 1 | 1 | LOCKWASHER, 3/8" |
| 19 | 091046 | 1 | 1 | - | CLIP, tube supporting (1/2" diam., 7/16" bolt-hole) |
| | 910922 | - | 1 | - | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | - | 1 | - | LOCKWASHER, 3/8" |
| | 911041 | - | 1 | - | NUT, 3/8"NF |
| 20 | 086982 | - | 1 | - | BRACKET, clip attaching |
| 21 | 036034 | - | 2 | - | CAPSCREW, 3/8"NF x 1" |
| | 904206 | - | 2 | - | LOCKWASHER, 3/8" |
| | 911041 | - | 2 | - | NUT, 3/8"NF |
| 22 | 048145 | 1 | - | - | CLIP, tube supporting (1/2" diam., 17/32" bolt-hole) |
| 23 | 065021 | - | - | - | TUBING, copper, 1/2" O.D., 18 ft. roll (Use as required) (Not illustrated) |

MEMO




HEAVY-DUTY FUEL FILTER (First type. Models HD21F, G; also HD21A with cab)

T-18145

# HEAVY-DUTY FUEL FILTER

USAGE: Special equipment. Applicable to tractors prior to serial No. 11001. Replaces standard first stage fuel filter.

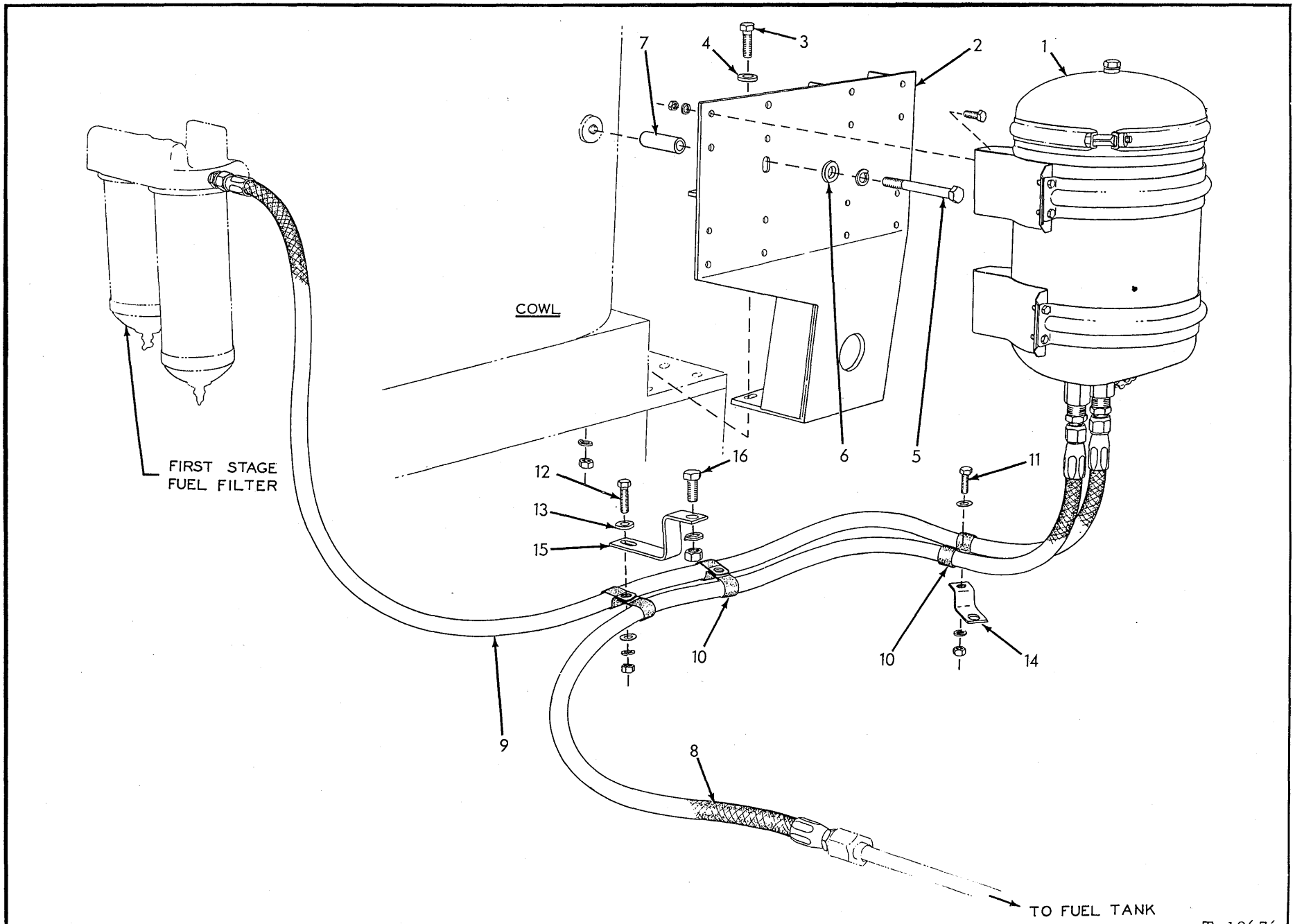
* Model HD21A tractors equipped with cab or "Allis-Chalmers" hydraulic dozer. See page 107 for optional installation
** Model HD21F
*** Model HD21G tractors prior to serial No. 9001

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | NOTE: See FUEL LINES for additional clips and hardware not listed here |
| 1 | 082441 | 1 | 1 | 1 | FILTER ASSEMBLY, fuel (See page 104 for parts) |
| | 911168 | 8 | 8 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | 8 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 8 | 8 | 8 | NUT, 5/16"NF |
| 2 | 080459 | 1 | 1 | 1 | BRACKET, filter mounting (Also mounts Heavy-Duty Oil Filter) |
| 3 | 070467 | 4 | - | - | CAPSCREW, 1/2"NF x 1" |
| | 035018 | - | 4 | - | CAPSCREW, 1/2"NF x 1-1/2" |
| | 070469 | - | - | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | - | NUT, 1/2"NF |
| 4 | 087878 | - | 1 | - | BRACKET, bracing, fuel and oil filters |
| 5 | 035073 | - | 3 | - | CAPSCREW, 1/2"NF x 1-3/4" |
| 6 | 064531 | - | 6 | - | WASHER, plain |
| | 904208 | - | 3 | - | LOCKWASHER, 1/2" |
| | 911043 | - | 3 | - | NUT, 1/2"NF |
| 7 | 087879 | - | 1 | - | BRACKET, bracing, oil filter |
| 8 | 035073 | - | 1 | - | CAPSCREW, 1/2"NF x 1-3/4" |
| 9 | 064531 | - | 2 | - | WASHER, plain |
| | 904208 | - | 1 | - | LOCKWASHER, 1/2" |
| | 911043 | - | 1 | - | NUT, 1/2"NF |
| 10 | 089250 | - | 1 | - | PLATE, bracing, fuel filter |
| 11 | 087472 | - | 2 | - | SHIM, bracing plate (Use as req'd) |
| 12 | 079000 | 1 | - | - | TUBE, fuel tank to filter |
| | 087885 | - | 1 | 1 | TUBE, fuel tank to filter |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915378 | 1 | 1 | 1 | CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male |
| | 915380 | 1 | 1 | 1 | ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male |
| | 904227 | 1 | 1 | 1 | COUPLING, pipe reducing, 1/2"NPT to 3/8"NPT |
| | 901500 | 1 | 1 | 1 | NIPPLE, pipe, 1/2"NPT x 1-1/8" |
| 13 | 079001 | 1 | - | - | TUBE, filter to pump, rear section |
| | 087884 | - | 1 | 1 | TUBE, filter to pump, rear section |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915379 | 1 | 1 | 1 | UNION, Sealastic, 1/2" tube |
| | 915380 | 1 | 1 | 1 | ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male |
| | 904227 | 1 | 1 | 1 | COUPLING, pipe reducing, 1/2"NPT to 3/8"NPT |
| | 901500 | 1 | 1 | 1 | NIPPLE, pipe, 1/2"NPT x 1-1/8" |

(Continued)

## HEAVY-DUTY FUEL FILTER (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 14 | 084675 | 1 | - | - | TUBE, connecting, rear and center sections |
| | 087883 | - | 1 | 1 | TUBE, connecting, rear and center sections |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915379 | 1 | 1 | 1 | UNION, Sealastic, 1/2" tube |
| 15 | 084371 | 1 | - | - | TUBE, filter to pump, center section |
| | 085678 | - | 1 | 1 | TUBE, filter to pump, center section |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915379 | 1 | 1 | 1 | UNION, Sealastic, 1/2" tube |
| 16 | 087583 | 1 | 1 | 1 | TUBE, connecting, center and front sections (Used prior to tractor #9001) |
| | 086762 | 1 | 1 | 1 | TUBE, connecting, center and front sections (Effective with tractor #9001) |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915379 | 1 | 1 | 1 | UNION, Sealastic, 1/2" tube (Used prior to tractor #9001) |
| | 915380 | 1 | 1 | - | ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male (Effective with tractor #9001) |
| 17 | 092801 | 1 | 1 | - | ADAPTER, tube connecting (Effective with tractor #9001) |
| | 901652 | 1 | 1 | - | PLUG, pipe, 1/4"NPT |
| 18 | 036034 | 2 | 2 | - | CAPSCREW, 3/8"NF x 1" |
| | 911115 | 2 | 2 | - | WASHER, plain, SAE std., 3/8" |
| | 904206 | 2 | 2 | - | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | - | NUT, 3/8"NF |
| 19 | 4372728 | 1 | 1 | 1 | LINE, filter to pump, front section |
| | 918564 | 2 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 916203 | 1 | 1 | - | ELBOW, Sealastic, 45°, 1/2" tube, 3/8"NPT male (Effective with tractor #9001) |
| 20 | 4254098 | 1 | 1 | 1 | CONNECTOR, fuel line (Sealastic, 1/2" tube, 1/4"NPT male) |
| 21 | 059635 | 1 | 1 | 1 | CLIP, tube supporting (For two 1/2" diam. tubes, 13/32" bolt-hole) |
| 22 | 203188 | 1 | 1 | 1 | CAPSCREW, 3/8"NF x 1-1/2" |
| | 904206 | 1 | 1 | 1 | LOCKWASHER, 3/8" |
| 23 | 076606 | 1 | 1 | 1 | SLEEVE, clip spacing |
| 24 | 091046 | 1 | 1 | 1 | CLIP, tube supporting (1/2" diam., 7/16" bolt-hole)(Used prior to tractor #9001) |
| | 910922 | 1 | 1 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 1 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | 1 | NUT, 3/8"NF |
| 25 | 086982 | 1 | 1 | 1 | BRACKET, clip attaching (Used prior to tractor #9001) |
| 26 | 036034 | 2 | 2 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | 2 | NUT, 3/8"NF |
| 27 | ------ | - | - | - | COCK (See FUEL LINES) |

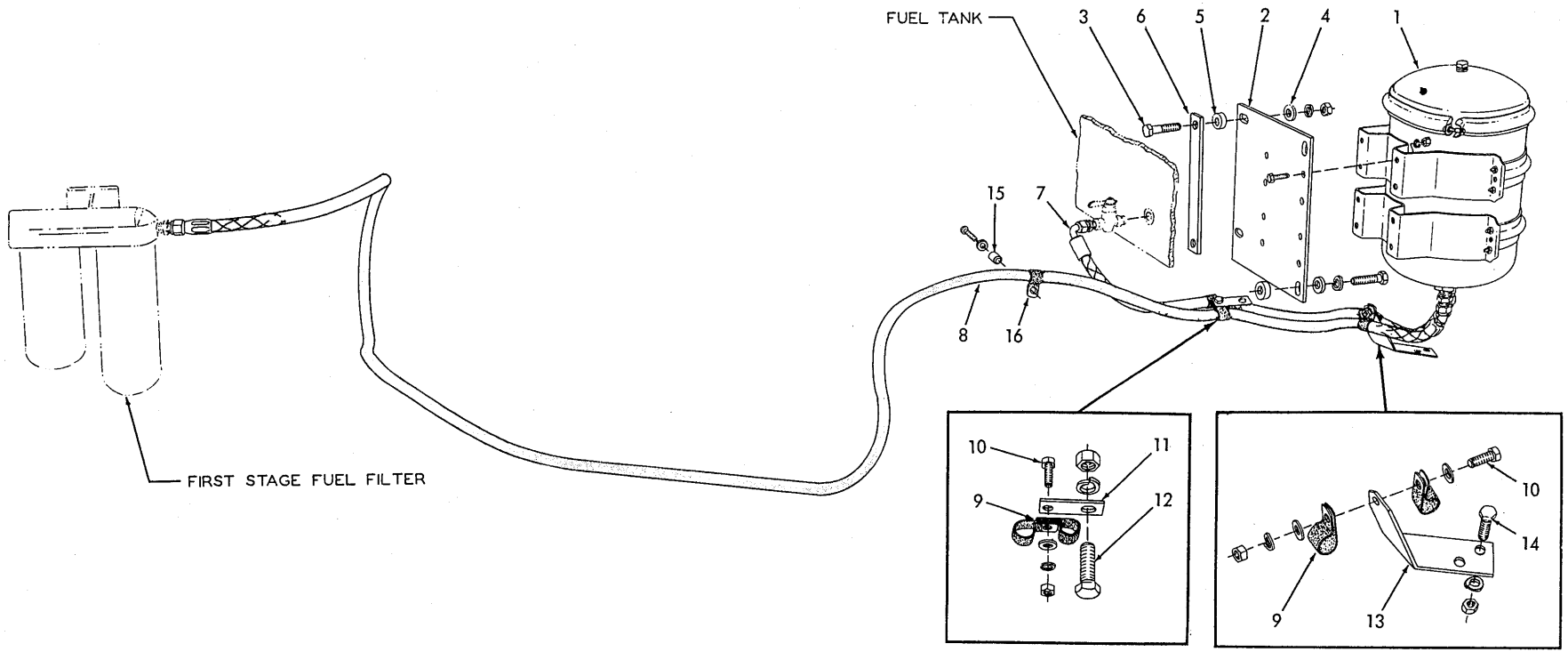



HEAVY-DUTY FUEL FILTER (Second type. Model HD21A)

# HEAVY-DUTY FUEL FILTER

USAGE: Special equipment. Applicable to Model HD21A tractors serial No. 11001 thru No. 12277, excluding Nos. 12187, 12210, 12231, 12245, 12259 and 12271. Requires removal of first stage fuel filter element.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: See FUEL LINES for additional clips and hardware not listed here |
| 1 | 082441 | 1 | FILTER ASSEMBLY, fuel (See page 104 for parts) |
| | 911168 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 8 | NUT, 5/16"NF |
| 2 | 094592 | 1 | BRACKET, filter mounting (Also mounts Heavy-duty Oil Filter) |
| 3 | 035018 | 4 | CAPSCREW, 1/2"NF x 1-1/2" |
| 4 | 064531 | 4 | WASHER, plain |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 5 | 031671 | 1 | CAPSCREW, 1/2"NF x 4-1/2" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 6 | 064531 | 1 | WASHER, plain |
| 7 | 095646 | 1 | SLEEVE, bracket spacing |
| 8 | 095567 | 1 | HOSE ASSEMBLY, fuel supply (See page 6 for parts) |
| | 919128 | 1 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male |
| 9 | 095910 | 1 | HOSE ASSEMBLY, fuel return (See page 6 for parts) |
| | 919128 | 1 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male |
| 10 | 094467 | 6 | CLIP, hose supporting |
| 11 | 036034 | 1 | CAPSCREW, 3/8"NF x 1" |
| 12 | 012992 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| 13 | 044973 | 2 | WASHER, plain |
| | 911115 | 3 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 3 | LOCKWASHER, 3/8" |
| | 911041 | 3 | NUT, 3/8"NF |
| 14 | 094555 | 1 | BRACKET, clip attaching |
| 15 | 094554 | 2 | BRACKET, clip attaching |
| 16 | 070467 | 2 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |



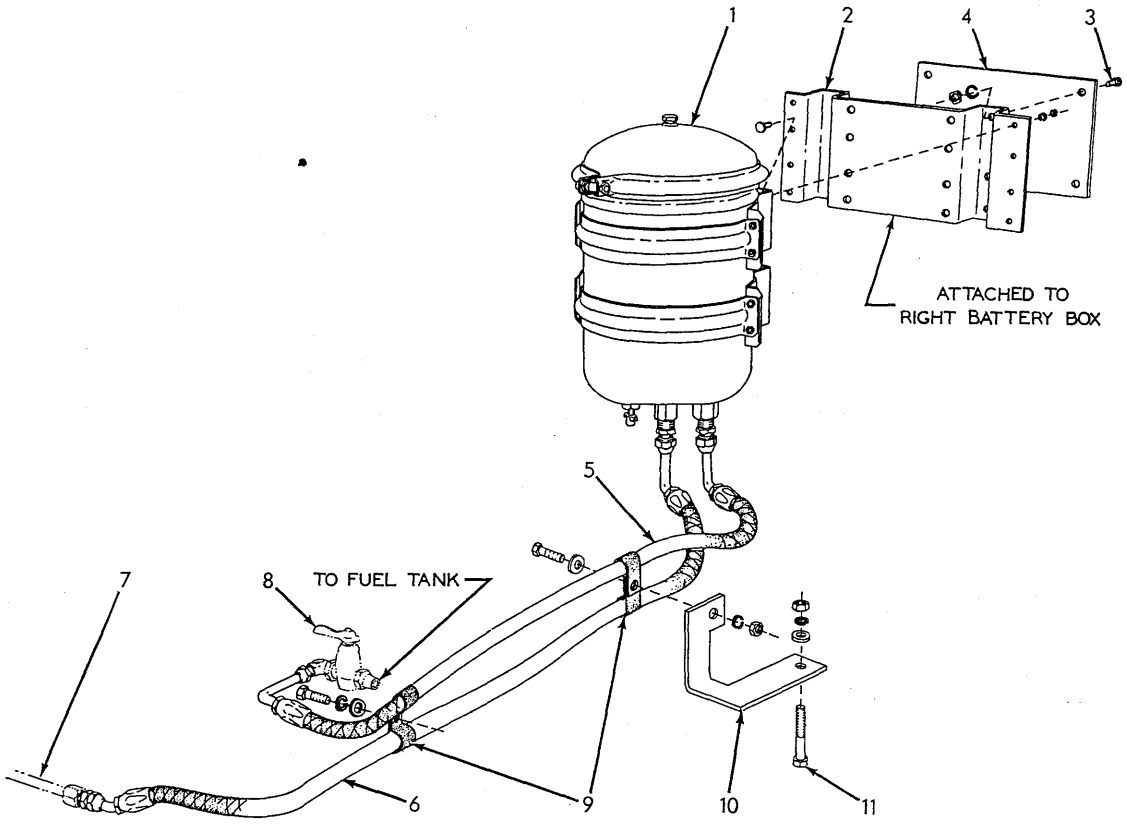

HEAVY-DUTY FUEL FILTER (Second type. Model HD21F, G)

T-19678

# HEAVY-DUTY FUEL FILTER

USAGE: Special equipment. Applicable to Models HD21F, G tractors serial No. 11001 and up. Requires removal of first stage fuel filter element.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082441 | 1 | FILTER ASSEMBLY, fuel (See page 104 for parts) |
| | 911168 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 8 | NUT, 5/16"NF |
| 2 | 094959 | 1 | PLATE, filter mounting |
| 3 | 035067 | 4 | CAPSCREW, 1/2"NF x 2" |
| 4 | 064531 | 4 | WASHER, plain |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 5 | 604645 | 4 | BOSS, filter plate spacing |
| 6 | 091491 | 1 | PLATE, reinforcing |
| 7 | 646151 | 1 | HOSE, fuel supply (See page 6) |
| | 919128 | 1 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male |
| 8 | 094940 | 1 | HOSE ASSEMBLY, fuel return (See page 6 for parts) |
| | 919128 | 1 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male |
| 9 | 094467 | 4 | CLIP, hose supporting |
| 10 | 036034 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 911115 | 3 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 11 | 094574 | 1 | PLATE, clip attaching |
| 12 | 023465 | 1 | CAPSCREW, 5/8"NF x 1-3/4" |
| | 904209 | 1 | LOCKWASHER, 5/8" |
| | 911044 | 1 | NUT, 5/8"NF |
| 13 | 094960 | 1 | ANGLE, clip attaching |
| 14 | 012992 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 15 | 043024 | 1 | BLOCK, clip spacing (HD21G only)(Used prior to tractor #12001) |
| | 913619 | 1 | CAPSCREW, 3/8"NF x 2-1/4" |
| | 044973 | 1 | WASHER, plain |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 16 | ------ | - | CLIP (See FUEL LINES for additional clips not shown here) |



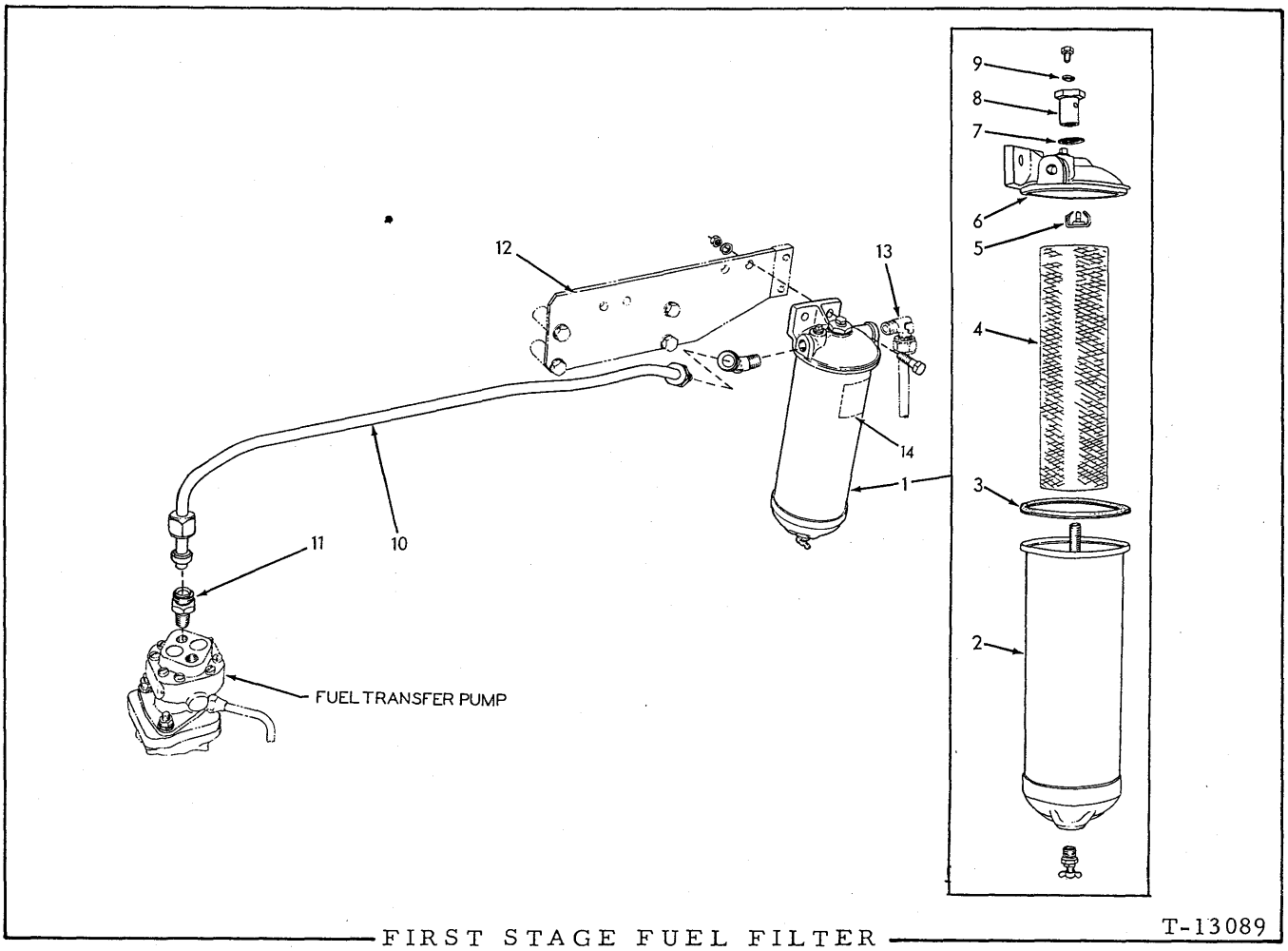

HEAVY-DUTY FUEL FILTER (Third type. Model HD21A) T-33499

USAGE: Special equipment. Applicable to Model HD21A tractors serial No. 12278 and up, including Nos. 12187, 12210, 12231, 12245, 12259 and 12271. Requires removal of first stage fuel filter element.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082441 | 1 | FILTER ASSEMBLY, fuel (See page 104 for parts) |
| | 911168 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 8 | NUT, 5/16"NF |
| 2 | 080459 | 1 | BRACKET, mounting |
| 3 | 070469 | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 4 | 099310 | 1 | PLATE, backing, battery box |
| 5 | 632123 | 1 | HOSE ASSEMBLY, filter inlet (See page 6 for parts) |
| | 919206 | 1 | ELBOW, flare type, 1/2" tube, 3/8"NPT |
| | 919128 | 1 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male |
| 6 | 632124 | 1 | HOSE ASSEMBLY, filter outlet (See page 6 for parts) |
| | 919128 | 1 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male |
| 7 | ------ | 1 | TUBE, fuel supply (See FUEL LINES) |
| 8 | ------ | - | COCK (See FUEL LINES) |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 9 | 094467 | 4 | CLIP, hose supporting |
| | 036032 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 036034 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 911115 | 2 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 10 | 632122 | 1 | BRACKET, hose supporting |
| 11 | 035248 | 1 | CAPSCREW, 5/8"NF x 2-1/4" |
| | 064810 | 1 | WASHER, plain |
| | 904209 | 1 | LOCKWASHER, 5/8" |
| | 911044 | 1 | NUT, 5/8"NF |




FIRST STAGE FUEL FILTER

USAGE: Tractors prior to serial No. 11001 except those equipped with special HEAVY-DUTY FUEL FILTER.

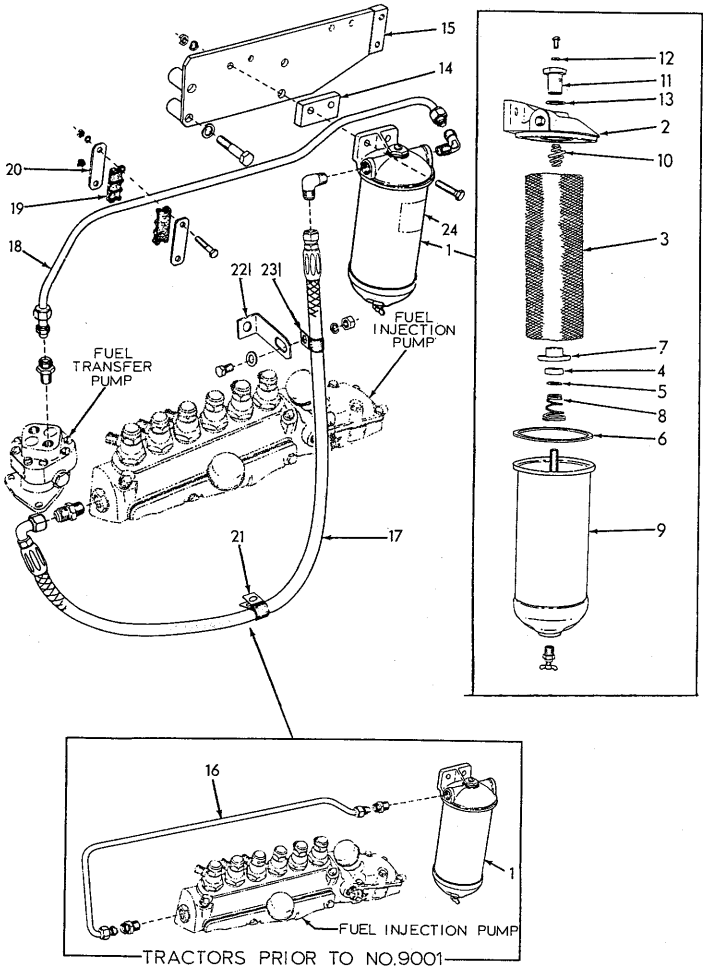
* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4372734 | 1 | - | FILTER ASSEMBLY, fuel (Consists of items 2 thru 9) |
| | 093466 | - | 1 | FILTER ASSEMBLY, fuel (Consists of items 2 thru 9) |
| | 910211 | 2 | 2 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911026 | 2 | 2 | NUT, 3/8"NC |
| 2 | ------ | 1 | 1 | SHELL, filter (Order item 1) |
| | 912415 | 1 | 1 | COCK, drain, T-handle, 1/4"NPT |
| 3 | 4040013 | 1 | 1 | GASKET, filter shell |
| 4 | 4055565 | 1 | 1 | ELEMENT KIT, (Includes item 3) |
| 5 | 4051485 | 1 | 1 | GUIDE, element centering |

(Continued)

## FIRST STAGE FUEL FILTER (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 6 | 4347790 | 1 | - | HEAD, filter |
| | 093465 | - | 1 | HEAD, filter |
| | 901652 | - | 1 | PLUG, pipe, 1/4"NPT |
| 7 | 4051484 | 1 | 1 | GASKET, shell retaining nut |
| 8 | 4051483 | 1 | 1 | NUT, shell retaining |
| | 906692 | 1 | 1 | CAPSCREW, 1/4"NC x 3/8" |
| 9 | 065577 | 1 | - | GASKET, bleeding screw (fibre) |
| | 914686 | - | 1 | WASHER, bleeding screw (copper) |
| 10 | 4372728 | 1 | 1 | LINE, filter to transfer pump |
| | 916203 | 1 | 1 | ELBOW, Sealastic, 45°, 1/2" tube, 3/8"NPT male |
| | 918564 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| 11 | 4254098 | 1 | 1 | CONNECTOR, fuel line (Sealastic, 1/2" tube, 1/4"NPT male) |
| 12 | ------ | - | - | BRACKET, mounting (See SECOND STAGE FUEL FILTER) |
| 13 | ------ | - | - | TUBE, fuel tank to filter (See FUEL LINES) |
| 14 | ------ | - | - | TRANSFER (See PAINTING AND MARKING) |




SECOND STAGE FUEL FILTER T-18168

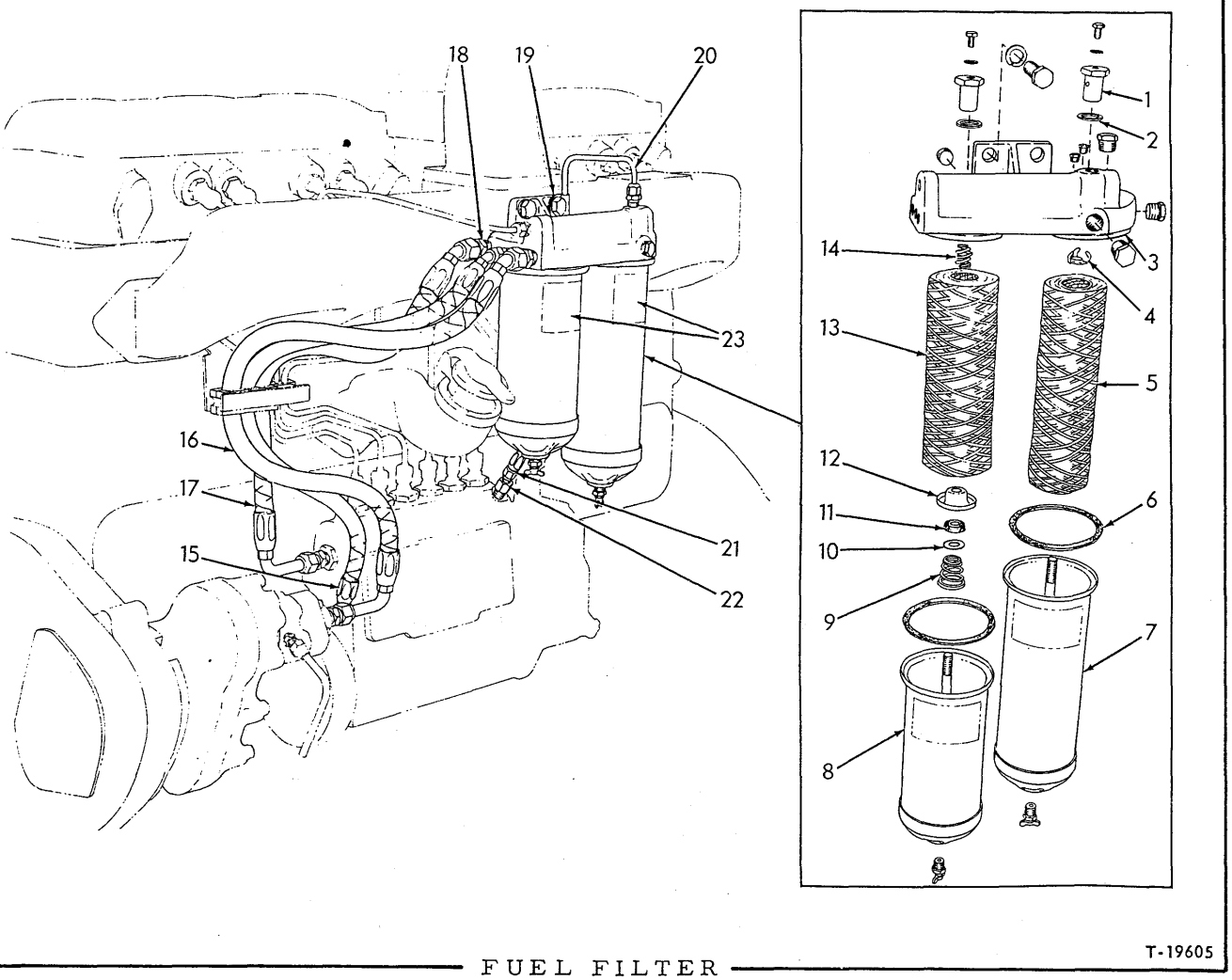
USAGE: Tractors prior to serial No. 11001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4372900 | 1 | FILTER ASSEMBLY, fuel (Consists of items 2 thru 13) |
| | 903633 | 2 | CAPSCREW, 3/8"NC x 1-3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911026 | 2 | NUT, 3/8"NC |
| 2 | 4347790 | 1 | HEAD, filter |
| 3 | 4055920 | 1 | ELEMENT KIT (Includes items 4 thru 6) |
| 4 | ------ | 1 | GASKET, element plate (Not serviced separately) |
| 5 | ------ | 1 | WASHER, element plate gasket (Not serviced separately) |
| 6 | 4040013 | 1 | GASKET, filter shell |
| 7 | 4052173 | 1 | PLATE, element seating |
| 8 | 4052174 | 1 | SPRING, element |
| 9 | ------ | 1 | SHELL, filter (Order item 1) |
| | 912415 | 1 | COCK, drain, T-handle, 1/4"NPT |

(Continued)

## SECOND STAGE FUEL FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 10 | 4055913 | 1 | GUIDE, element centering |
| 11 | 4051483 | 1 | NUT, shell retaining |
| | 915432 | 1 | SCREW, machine, 1/4"NC x 5/16" |
| 12 | 065577 | 1 | GASKET, bleeding screw |
| 13 | 4051484 | 1 | GASKET, shell retaining nut |
| 14 | 4372873 | 1 | PLATE, filter spacing |
| 15 | 4371672 | 1 | BRACKET, filter mounting |
| | 903642 | 4 | CAPSCREW, 1/2"NC x 2-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 16 | ------ | 1 | LINE, filter to injection pump (Used prior to tractor #9001)(Order 1 each HOSE ASSEMBLY 4376111, CONNECTOR 919063 and ELBOW 911309) |
| | 918325 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915368 | 1 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male (Used prior to engine #68373) |
| | 4254097 | 2 | CONNECTOR, Sealastic, 3/8" tube, 3/8"NPT male (1 less used prior to engine #68373) |
| 17 | 4376111 | 1 | HOSE ASSEMBLY, filter to injection pump (See page 6 for parts) (Effective with tractor #9001) |
| | 919063 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| | 911309 | 1 | ELBOW, flare type, 1/2" tube, 3/8"NPT male |
| 18 | 4372730 | 1 | LINE, transfer pump to second stage filter |
| | 918325 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915368 | 1 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| | 915369 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male (Used prior to engine #68373) |
| | 918318 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 3/8"NPT male (Effective with engine #68373) |
| 19 | 4372758 | 4 | CLAMP, fuel lines (rubber) |
| 20 | 4372764 | 4 | PLATE, backing |
| | 905818 | 4 | CAPSCREW, 1/4"NC x 1-1/2" |
| | 904204 | 4 | LOCKWASHER, 1/4" |
| | 910880 | 4 | NUT, 1/4"NC |
| 21 | 4376428 | 1 | CLAMP, hose supporting (Effective with tractor #9001) |
| 22 | 4376338 | 1 | BRACKET, hose supporting clamp (Effective with tractor #9001) |
| 23 | 4254580 | 1 | CLAMP, hose supporting (Effective with tractor #9001) |
| | 903638 | 1 | CAPSCREW, 3/8"NC x 5/8" |
| | 900817 | 1 | WASHER, plain, U.S. std., 3/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 912772 | 1 | NUT, 3/8"NC |
| 24 | ------ | - | TRANSFER (See PAINTING AND MARKING) |




FUEL FILTER

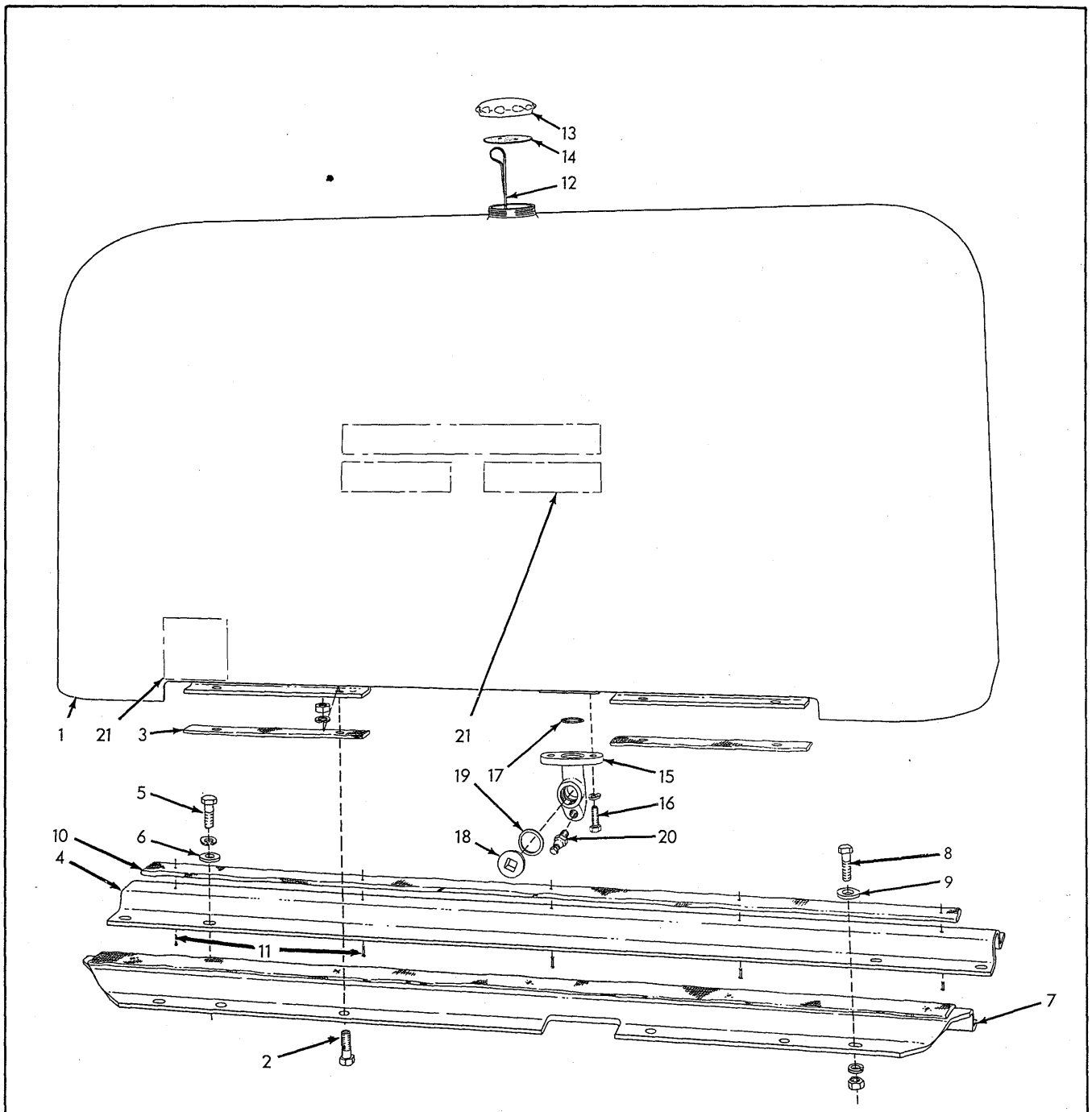
USAGE: Tractors serial No. 11001 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4051483 | 2 | NUT, shell retaining (1-3/16" long)(Original equipment) |
| | 4389113 | 2 | NUT, shell retaining (1-9/16" long)(Used with service replacement filter head only) |
| | 919288 | 2 | CAPSCREW, 1/4"NC x 3/8" } Air bleed |
| | 914686 | 2 | WASHER, copper } Air bleed |
| 2 | 4051484 | 2 | GASKET, shell retaining nut |
| 3 | 4389051 | 1 | HEAD ASSEMBLY, (Includes PLUGS indented below) |
| | 919134 | 2 | PLUG, pipe, hex-hd., 1/8"NPT |
| | 919840 | 1 | PLUG, pipe, hex-hd., 1/4"NPT (Not used with service replacement filter head) |
| | 920333 | 2 | PLUG, pipe, hex-hd., 3/8"NPT |
| | 918887 | 1 | PLUG, pipe, hex-socket, 3/8"NPT |
| | 916311 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |

(Continued)

## FUEL FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 4 | 4051485 | 1 | GUIDE, element centering, first stage filter |
| 5 | 4055565 | 1 | ELEMENT KIT, first stage filter (Includes item 6)(Not used when Heavy-Duty Filter is installed) |
| 6 | 4040013 | 2 | GASKET, filter shell |
| 7 | 4389172 | 1 | SHELL ASSEMBLY, first stage filter (Includes items 1,2,4,5,6 and COCK 912415) |
| | 912415 | 1 | COCK, drain, 1/4"NPT |
| 8 | 4388109 | 1 | SHELL ASSEMBLY, second stage filter (Includes items 1,2,6,9 thru 14 and COCK 912415) |
| | 912415 | 1 | COCK, drain, 1/4"NPT |
| 9 | 4052174 | 1 | SPRING, second stage filter |
| 10 | ------ | 1 | WASHER, element plate gasket (Not serviced separately) |
| 11 | ------ | 1 | GASKET, element plate (Not serviced separately) |
| 12 | 4052173 | 1 | PLATE, element seating, second stage filter |
| 13 | 4055920 | 1 | ELEMENT KIT, second stage filter (Includes items 6,10 and 11) |
| 14 | 4055913 | 1 | GUIDE, element centering, second stage filter |
| 15 | 4377458 | 1 | HOSE ASSEMBLY, transfer pump to second stage filter (See page 6 for parts) |
| | 919062 | 2 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| | 901826 | 1 | BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT (For use with service replacement filter head only) |
| 16 | 4377457 | 1 | HOSE ASSEMBLY, first stage filter to transfer pump (See page 6 for parts) |
| | 919205 | 1 | CONNECTOR, flare type, 1/2" tube, 1/4"NPT male |
| | 919063 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 17 | 4376742 | 1 | HOSE ASSEMBLY, second stage filter to injection pump (See page 6 for parts) |
| | 919063 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 18 | 4377515 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male (restricted) |
| 19 | 4377963 | 1 | CLIP, supporting, fuel return tube |
| 20 | 4377961 | 1 | TUBE, fuel return |
| | 917809 | 2 | NUT, Imperial, 1/4" tube |
| | 917806 | 2 | SLEEVE, Imperial, 1/4" tube |
| | 920242 | 1 | CONNECTOR, Imperial, 1/4" tube, 1/4"NPT male |
| | 917814 | 1 | CONNECTOR, Imperial, 1/4" tube, 1/4"NPT female |
| 21 | 4335557 | 1 | HOSE ASSEMBLY, fuel return (See page 6 for parts) |
| 22 | 4377956 | 1 | CONNECTOR, fuel return hose (restricted) |
| 23 | ------ | - | TRANSFERS (See PAINTING AND MARKING) |

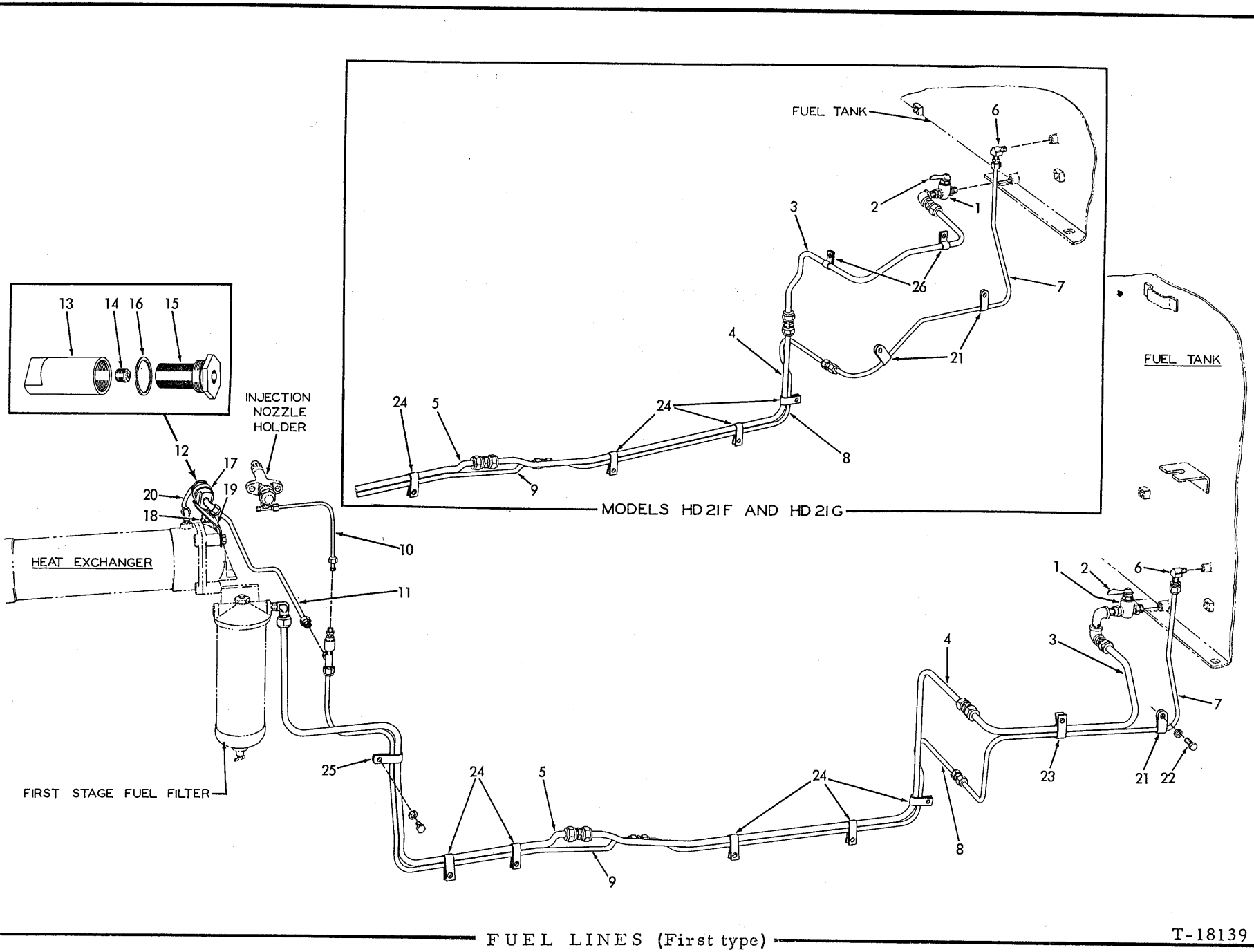



FUEL TANK

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 084136 | 1 | TANK, fuel |
| 2 | 035014 | 8 | CAPSCREW, 5/8"NF x 1-1/2" |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| | 911044 | 8 | NUT, 5/8"NF |
| 3 | 083917 | 4 | PAD, tank mounting |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 4 | 083919 | 1 | CHANNEL ASSEMBLY, tank supporting, front (Includes items 10 and 11)(Used prior to tractor #11303) |
| | 095481 | 1 | CHANNEL ASSEMBLY, tank supporting, front (Includes items 10 and 11)(Effective with tractor #11303) |
| 5 | 023465 | 8 | CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #11303) |
| | 035248 | 8 | CAPSCREW, 5/8"NF x 2-1/4" (Effective with tractor #11303) |
| 6 | 064810 | 16 | WASHER, plain |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| | 911044 | 8 | NUT, 5/8"NF (4 less used prior to tractor #11303) |
| 7 | 095479 | 1 | CHANNEL ASSEMBLY, tank supporting, rear (Includes items 10 and 11) |
| 8 | 023465 | 6 | CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #11303) |
| | 035248 | 6 | CAPSCREW, 5/8"NF x 2-1/4" (Effective with tractor #11303) |
| 9 | 064810 | 12 | WASHER, plain |
| | 904209 | 6 | LOCKWASHER, 5/8" |
| | 911044 | 6 | NUT, 5/8"NF (4 less used prior to tractor #11303) |
| 10 | 083918 | 2 | PAD, tank mounting |
| 11 | 083915 | 10 | RIVET, split, 3/16" x 3/4" |
| 12 | 053100 | 1 | GAUGE, fuel level |
| 13 | 642744 | 1 | CAP, fuel tank |
| 14 | 065613 | 1 | GASKET, fuel tank cap |
| 15 | 083955 | 1 | ELBOW, fuel tank drain |
| 16 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 17 | 923813 | 1 | O-RING, fuel tank drain elbow |
| 18 | 050594 | 1 | PLUG, drain elbow clean-out |
| 19 | 050595 | 1 | GASKET, drain elbow clean-out plug |
| 20 | 633519 | 1 | COCK, drain |
| 21 | ----- | - | TRANSFER, (See PAINTING AND MARKING) |




FUEL LINES (First type)

T-18139

# FUEL LINES

USAGE: Tractors prior to serial No. 11001

* Model HD21A
** Models HD21F

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 092727 | 1 | 1 | COCK, fuel shut-off (3/8"NPT male and female)(Includes item 2) |
| | 901489 | 1 | 1 | NIPPLE, pipe, 3/8"NPT x 1" |
| | 901678 | 1 | 1 | ELBOW, pipe, 90°, 3/8"NPT |
| | 901723 | 1 | - | ELBOW, street, 90°, 3/8"NPT |
| 2 | 082189 | 1 | 1 | HANDLE, fuel shut-off cock |
| 3 | 084408 | 1 | - | TUBE, fuel supply, rear section |
| | 085754 | - | 1 | ◊TUBE, fuel supply, rear section |
| | 918564 | 2 | 2 | NUT, Sealastic fitting, 1/2" tube |
| | 915377 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915378 | 1 | 1 | CONNECTOR, Sealastic, 1/2" tube, 3/8"NPT male |
| | 915379 | 1 | 1 | UNION, Sealastic, 1/2" tube |
| 4 | 084371 | 1 | - | TUBE, fuel supply, center section |
| | 085678 | - | 1 | TUBE, fuel supply, center section |
| | 918564 | 2 | 2 | NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915379 | 1 | 1 | UNION, Sealastic, 1/2" tube |
| 5 | 086762 | 1 | 1 | ◊TUBE, fuel supply, front |
| | 918564 | 2 | 2 | ◊NUT, Sealastic, 1/2" tube |
| | 915377 | 2 | 2 | ◊RING, Sealastic, 1/2" tube (Includes ferrule) |
| | 915380 | 1 | 1 | ◊ELBOW, Sealastic, 90°, 1/2" tube, 3/8"NPT male |
| 6 | 078926 | 1 | 1 | ELBOW, fuel return tube (90°, 1/4"NPT male and female, short type) |
| 7 | 083301 | 1 | - | TUBE, fuel return, rear section |
| | 085724 | - | 1 | TUBE, fuel return, rear section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915368 | 1 | 1 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| | 915386 | 1 | 1 | UNION, Sealastic, 3/8" tube |
| 8 | 083299 | 1 | 1 | TUBE, fuel return, center section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915386 | 1 | 1 | UNION, Sealastic, 3/8" tube |
| 9 | 083297 | 1 | 1 | TUBE, fuel return, front section |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915859 | 1 | 1 | TEE, Sealastic, service, 3/8" tube, 1/4"NPT male |

◊Indicates parts not used on tractors equipped with Heavy-duty Fuel Filter.

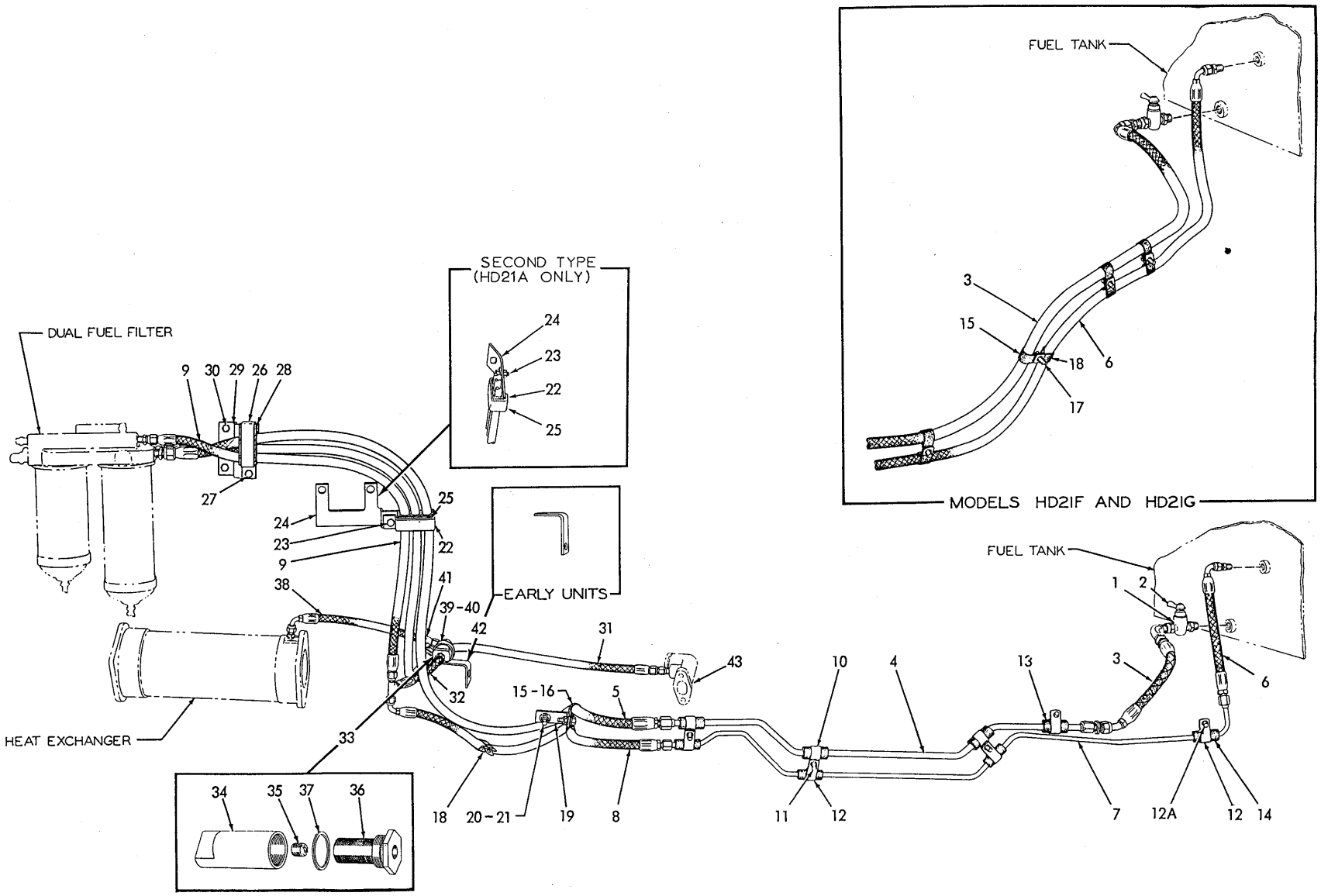
(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 10 | 082248 | 1 | 1 | TUBE, fuel return, injection nozzle holder (Used prior to tractor #9001) |
| | 911437 | 2 | 2 | NUT, compression fitting, 1/4" tube |
| | 911435 | 2 | 2 | SLEEVE, compression fitting, 1/4" tube |
| | 907061 | 1 | 1 | COUPLING, pipe reducing, 1/4" NPT to 1/8"NPT |
| | 910197 | 1 | 1 | CONNECTOR, compression type, 1/4" tube, 1/8"NPT (Includes nut and sleeve) |
| | 093172 | 1 | 1 | TUBE, fuel return, injection nozzle holder (Effective with tractor #9001) |
| | 917809 | 2 | 2 | NUT, Imperial, 1/4" tube |
| | 917806 | 2 | 2 | SLEEVE, Imperial, 1/4" tube |
| | 917812 | 1 | 1 | CONNECTOR, Imperial, 1/4" tube, 1/8"NPT male (Includes nut and sleeve) |
| | 907061 | 1 | 1 | COUPLING, pipe reducing, 1/4"NPT to 1/8"NPT |
| 11 | 082277 | 1 | 1 | TUBE, fuel return, tee to filter |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915369 | 1 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| 12 | 079044 | 1 | 1 | FILTER ASSEMBLY, fuel return line (Consists of items 13 thru 16) |
| 13 | 052701 | 1 | 1 | BODY, fuel return line filter |
| 14 | 079043 | 1 | 1 | PLUG, restricting, return line filter |
| 15 | 052702 | 1 | 1 | SCREEN, fuel return line filter |
| 16 | 042744 | 1 | 1 | GASKET, fuel return line filter |
| 17 | 053096 | 1 | 1 | CLIP, supporting, fuel return line filter |
| 18 | 070467 | 1 | 1 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 19 | 082245 | 1 | 1 | PLATE, clip attaching |
| 20 | 082239 | 1 | 1 | TUBE, filter to torque converter coil cooler |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915368 | 1 | 1 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| | 915369 | 1 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| 21 | 041262 | 1 | 2 | CLIP, rear fuel return tube (3/8" diam., 13/32" bolt-hole) |
| 22 | 036034 | 1 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | 2 | LOCKWASHER, 3/8" |
| 23 | 055232 | 1 | - | CLIP, fuel tubes (For one 1/2" diam. tube and one 3/8" diam. tube, 13/32" bolt-hole) |
| 24 | 055233 | 5 | 5 | CLIP, fuel tubes (For one 1/2" diam. tube and one 3/8" diam. tube, 13/32" bolt-hole) |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| | 081192 | 1 | 1 | △CLIP, fuel tubes (For one 1/2" diam. tube and one 3/8" diam. tube, 9/16" bolt-hole)(Used prior to tractor #9001) |
| 25 | 092464 | 1 | 1 | △CLIP, fuel tubes (For one 1/2" diam. tube and one 3/8" diam. tube, 7/16" bolt-hole)(Effective with tractor #9001) |
| | 035979 | 1 | 1 | CAPSCREW, 3/8"NF x 5/8" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| 26 | 091046 | - | 2 | CLIP, fuel tube (1/2" diam., 7/16" bolt-hole) |

△Indicates parts not used on tractors equipped with Heavy-duty Fuel Filter.




T-19642

FUEL LINES (Second type)

# FUEL LINES

USAGE: Tractors serial No. 11001 and up

* Model HD21A
** Models HD21F, G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 092727 | 1 | 1 | COCK, fuel shut-off (3/8"NPT male and female) (Includes item 2) |
| | 919063 | 1 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male (Not used on HD21A tractors after #12000, excluding #11808 and #11809) |
| | 919206 | 1 | - | ELBOW, flare type, 1/2" tube, 3/8"NPT male (Effective with tractor #12001, including #11808 and #11809) |
| 2 | 082189 | 1 | 1 | HANDLE, fuel shut-off cock |
| 3 | 093889 | 1 | - | HOSE ASSEMBLY, fuel supply, rear (See page 6 for parts) (Used prior to tractor #12001, excluding #11808 and #11809) |
| | 622977 | 1 | - | HOSE ASSEMBLY, fuel supply, rear (See page 6 for parts) (Effective with tractor #12001, including #11808 and #11809) |
| | 644511 | - | 1 | HOSE, fuel supply (See page 6) |
| | 919063 | - | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 4 | 093859 | 1 | - | TUBE ASSEMBLY, fuel supply (Includes nuts) (Used prior to tractor #12001, excluding #11808 and #11809) |
| | 622975 | 1 | - | TUBE ASSEMBLY, fuel supply (Includes nuts) (Effective with tractor #12001, including #11808 and #11809) |
| | 919066 | 1 | - | UNION, flare type, 1/2" tube |
| 5 | 096572 | 1 | - | HOSE ASSEMBLY, fuel supply, front (See page 6 for parts) |
| | 919063 | 1 | - | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 6 | 645079 | 1 | - | HOSE, fuel return, rear (See page 6) |
| | 646321 | - | 1 | HOSE, fuel return, rear (See page 6) |
| | 919062 | 1 | 1 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 7 | 093856 | 1 | - | TUBE ASSEMBLY, fuel return (Includes nuts) (Used prior to tractor #12001, excluding #11808 and #11809) |
| | 622976 | 1 | - | TUBE ASSEMBLY, fuel return (Includes nuts) (Effective with tractor #12001, including #11808 and #11809) |
| 8 | 096190 | 1 | - | HOSE ASSEMBLY, fuel return, intermediate (See page 6 for parts) |
| 9 | 094548 | 1 | 1 | HOSE ASSEMBLY, fuel return, front (See page 6 for parts) |
| | 919062 | 1 | 1 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| | 919087 | 1 | 1 | TEE, flare type, 3/8" tube |
| 10 | 055234 | 4 | - | CLIP, tube supporting |
| 11 | 036032 | 4 | - | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 4 | - | LOCKWASHER, 3/8" |
| | 911115 | 3 | - | WASHER, plain, SAE std., 3/8" |

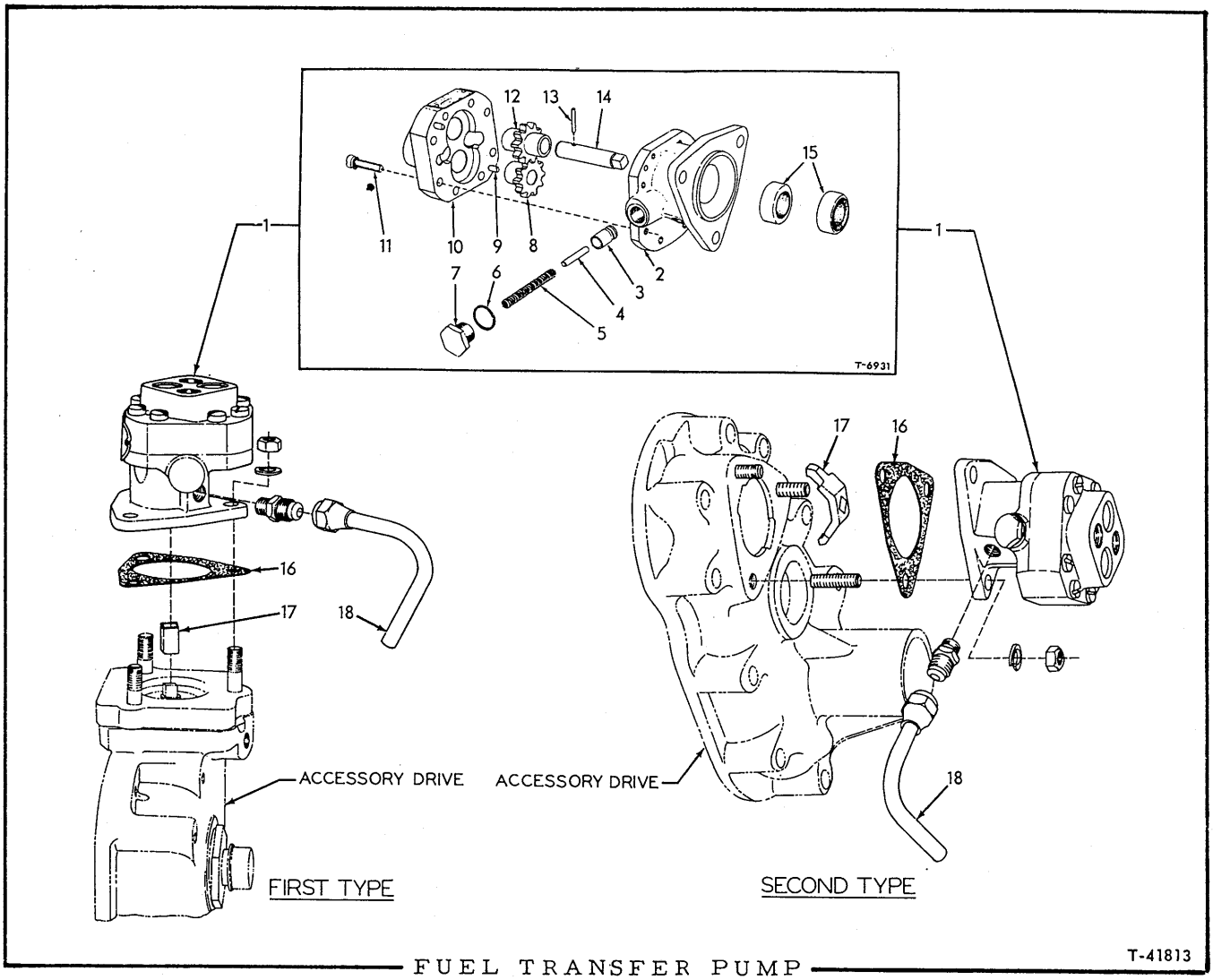
(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 12 | 097534 | 4 | - | CLIP, tube supporting |
| 12A | 036032 | 1 | - | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 1 | - | LOCKWASHER, 3/8" |
| 13 | 093752 | 4 | - | BOOT, tube protecting (1/2" tube) |
| 14 | 093751 | 4 | - | BOOT, tube protecting (3/8" tube) |
| 15 | 094467 | 2 | 7 | CLIP, hose supporting |
| 16 | 036034 | 2 | - | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| | 911041 | 2 | - | NUT, 3/8"NF |
| 17 | 036032 | - | 7 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | - | 7 | LOCKWASHER, 3/8" |
| | 911115 | - | 7 | WASHER, plain, SAE std., 3/8" |
| 18 | 094422 | 2 | 7 | CLIP, hose supporting |
| 19 | 094571 | 1 | - | ANGLE, clip attaching |
| 20 | 012992 | 1 | - | CAPSCREW, 3/8"NF x 1-1/4" |
| 21 | 044973 | 2 | - | WASHER, plain |
| | 904206 | 1 | - | LOCKWASHER, 3/8" |
| | 911041 | 1 | - | NUT, 3/8"NF |
| 22 | 094964 | 1 | 1 | CLAMP, hose attaching |
| 23 | 036034 | 1 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 24 | 097032 | 1 | 1 | BRACKET, hose clamp (Not used on HD21A tractors after #12308) |
| | 097629 | 1 | - | BRACKET, hose clamp (Effective with tractor #12309) |
| 25 | 096354 | 1 | 1 | BLOCK, hose clamp |
| 26 | 095980 | 1 | 1 | CLAMP, hose attaching |
| 27 | 036034 | 1 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 28 | 096328 | 1 | 1 | BLOCK, hose clamp |
| 29 | 096310 | 1 | 1 | BRACKET, hose clamp |
| 30 | 035244 | 2 | 2 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| 31 | 096192 | 1 | 1 | HOSE ASSEMBLY, torque converter charging (See page 6 for parts) |
| | 919062 | 2 | 2 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 32 | 095732 | 1 | 1 | HOSE ASSEMBLY, fuel return, filter to tee (See page 6 for parts) |
| 33 | 079044 | 1 | 1 | FILTER ASSEMBLY, fuel return (Consists of items 34 thru 37) |
| 34 | 052701 | 1 | 1 | BODY, filter |
| 35 | 079043 | 1 | 1 | PLUG, filter restricting |
| 36 | 052702 | 1 | 1 | SCREEN, filter |

(Continued)

## FUEL LINES (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 37 | 042744 | 1 | 1 | GASKET, filter |
| 38 | 095776 | 1 | 1 | HOSE ASSEMBLY, fuel return, heat exchanger to filter (See page 6 for parts) |
| | 919135 | 1 | 1 | ELBOW, flare type, 3/8" tube, 1/4"NPT male |
| | 919062 | 1 | 1 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 39 | 053096 | 1 | 1 | CLIP, supporting, return line filter |
| 40 | 012992 | 1 | 1 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 41 | 094422 | 1 | 1 | CLIP, supporting, charging line |
| 42 | 098185 | 1 | 1 | ANGLE, clip attaching (Not used on Models HD21A, F equipped with special Dry-type Air Cleaner) |
| | 621318 | 1 | 1 | ANGLE, clip attaching (Used only on Models HD21A, F equipped with special Dry-type Air Cleaner) |
| 43 | ------ | 1 | 1 | ELBOW (See TORQUE CONVERTER AND PIPING) |




FUEL TRANSFER PUMP

* Tractors prior to serial No.11001
** Tractors serial No.11001 and up

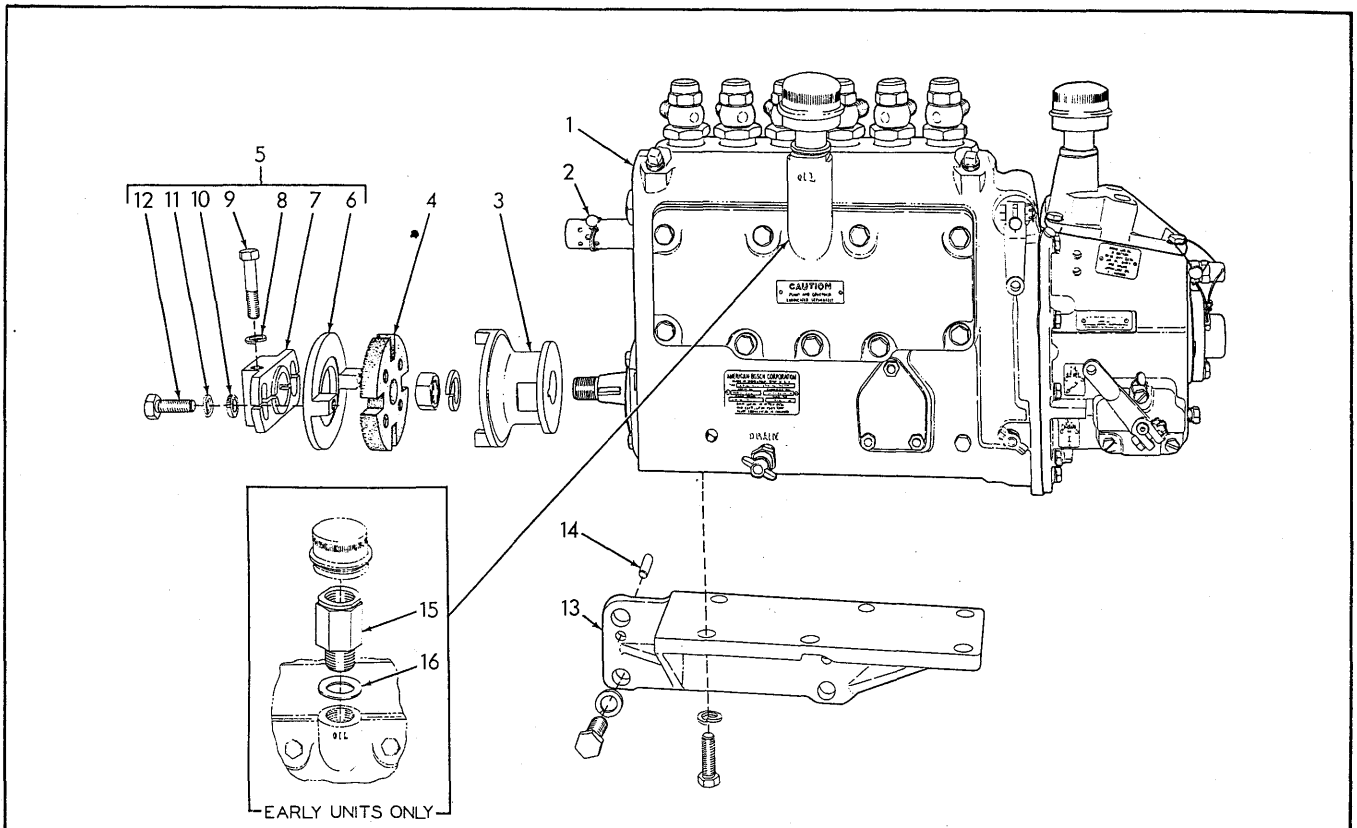
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| | 4369765 | 1 | - | PUMP ASSEMBLY, fuel (Consists of items 2 thru 15) |
| | 904205 | 3 | - | LOCKWASHER, 5/16" |
| | 910233 | 3 | - | NUT, 5/16"NF |
| 1 | 4377456 | - | 1 | PUMP ASSEMBLY, fuel (Consists of items 2 thru 15) |
| | 4376667 | - | 3 | STUD (5/16" diam.) |
| | 904205 | - | 3 | LOCKWASHER, 5/16" |
| | 910323 | - | 3 | NUT, 5/16"NC |
| 2 | ------ | 1 | 1 | STATOR (Not serviced separately) |
| 3 | 4047994 | 1 | 1 | PLUNGER, pressure relief |
| 4 | 4047993 | 1 | 1 | PIN, guiding, pressure relief spring |
| 5 | 4048003 | 1 | 1 | SPRING, pressure relief plunger |
| 6 | 4048002 | 1 | 1 | GASKET, pressure relief spring plug |

(Continued)

## FUEL TRANSFER PUMP (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 7 | 4048001 | 1 | 1 | PLUG, pressure relief spring |
| 8 | 4047992 | 1 | 1 | GEAR, driven |
| 9 | 4048000 | 2 | 2 | PIN, dowel, stator to housing |
| 10 | ------ | 1 | 1 | HOUSING (Not serviced separately) |
| 11 | 4047996 | 8 | 8 | BOLT ASSEMBLY (Includes lockwasher) |
| 12 | 4047995 | 1 | 1 | GEAR, driving |
| 13 | 4047782 | 1 | 1 | PIN, shear, driving gear |
| 14 | 4047997 | 1 | 1 | SHAFT, driving gear |
| 15 | 4047783 | 2 | 2 | SEAL, pump shaft |
| 16 | 4376605 | 1 | 1 | □ GASKET, pump to housing |
| 17 | 4372351 | 1 | - | COUPLING |
| | 4377121 | - | 1 | FORK, coupling |
| 18 | 4372546 | 1 | 1 | LINE ASSEMBLY, fuel drain (Includes 910139 NUT)(Used prior to engine #21-3708) |
| | 910139 | 1 | 1 | NUT, flare type, 5/16" tube |
| | 910171 | 1 | 1 | CONNECTOR, flare type, 5/16" tube, 1/8"NPT male |

□ Also see PACKAGED PARTS




FUEL INJECTION PUMP T-13094

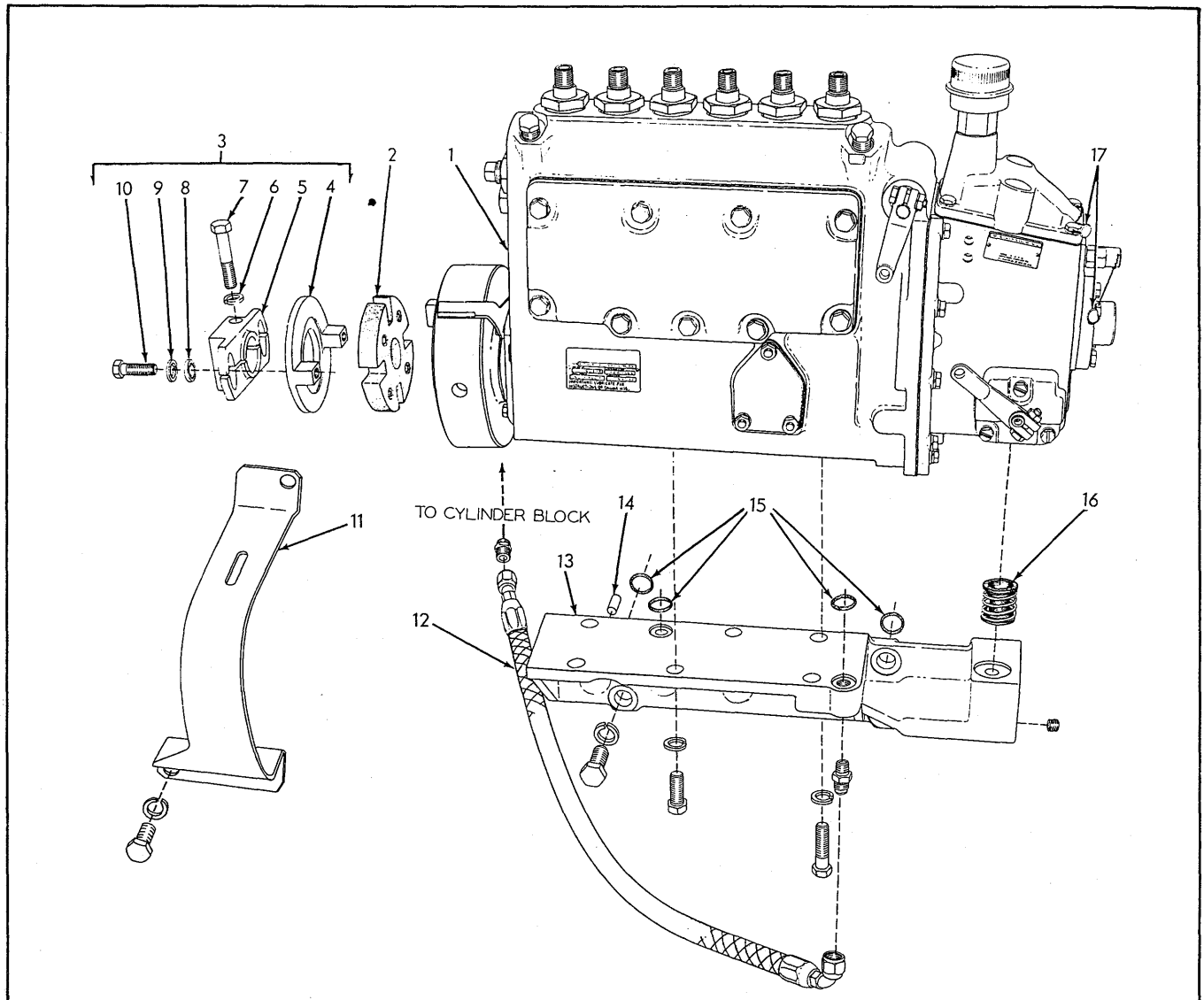
USAGE: Tractors prior to serial No. 11001 (844 series engines)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Each pump assembly listed below includes items 2 thru 5. |
| 1 | 4377692 | 1 | PUMP ASSEMBLY, injection (Engines prior to #21-2011) |
| | 4377693 | 1 | PUMP ASSEMBLY, injection (Engines #21-2011 thru #21-2363) |
| | 4376845 | 1 | PUMP ASSEMBLY, injection (Engines #21-2364 and up) |
| | 913030 | 5 | CAPSCREW, 7/16"NC x 1-1/8" (1 additional used prior to engine #21-2364) |
| | 904744 | 1 | CAPSCREW, 7/16"NC x 1-1/2" (Effective with engine #21-2364. Also attaches hose supporting bracket) |
| | 904207 | 6 | LOCKWASHER, 7/16" |
| 2 | 4355843 | 3 | SEAL, anti-tampering |
| 3 | 4371712 | 1 | COUPLING, injection pump |
| 4 | 4379813 | 1 | DISC, injection pump coupling |
| 5 | 4371714 | 1 | COUPLING ASSEMBLY, injection pump drive (Consists of items 6 thru 12) |
| 6 | 4371716 | 1 | FLANGE, injection pump drive coupling |
| 7 | 4371715 | 1 | HUB, injection pump drive coupling |
| | 905845 | 1 | KEY, #A woodruff, 1/4" x 7/8" |

(Continued)

## FUEL INJECTION PUMP (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 8 | 4371720 | 1 | LOCKWASHER, hub clamping screw |
| 9 | 4371719 | 1 | SCREW, clamping, coupling hub |
| 10 | 4371718 | 2 | WASHER, serrated, coupling capscrew |
| 11 | 4371721 | 2 | LOCKWASHER, coupling capscrew |
| 12 | 4371717 | 2 | CAPSCREW, injection pump drive coupling |
| 13 | 4363977 | 1 | BRACKET, injection pump mounting |
| | 903638 | 4 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 14 | 4502098 | 2 | PIN, dowel, mounting bracket (1/4" diam.)(Used prior to engine #68325) |
| | 4253286 | 2 | PIN, dowel, mounting bracket (5/16" diam.)(Effective with engine #68325) |
| 15 | 4373270 | 1 | EXTENSION, pump breather (Used prior to tractor #7701) |
| 16 | 4372067 | 1 | GASKET, breather extension (Used prior to tractor #7701) |




FUEL INJECTION PUMP T-19606

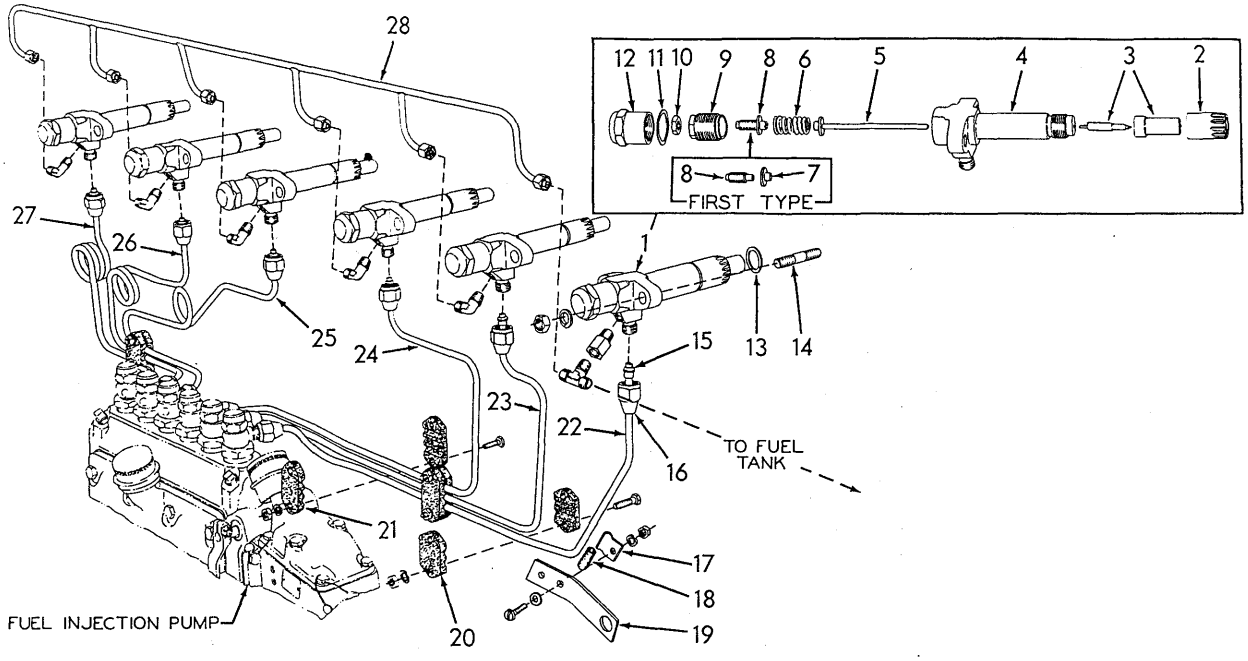
USAGE: Tractors serial No. 11001 and up (21000 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4385805 | 1 | PUMP ASSEMBLY, injection (Includes items 2 and 3) |
| | 919228 | 4 | CAPSCREW, 7/16"NC x 1-1/8" |
| | 918801 | 2 | CAPSCREW, 7/16"NC x 1-5/8" |
| | 904207 | 6 | LOCKWASHER, 7/16" |
| 2 | 4379813 | 1 | DISC, injection pump coupling |
| 3 | 4371714 | 1 | COUPLING ASSEMBLY, injection pump drive (Consists of items 4 thru 10) |
| 4 | 4371716 | 1 | FLANGE, injection pump drive coupling |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 5 | 4371715 | 1 | HUB, injection pump drive coupling |
| | 905845 | 1 | KEY, #A woodruff, 1/4" x 7/8" |
| 6 | 4371720 | 1 | LOCKWASHER, hub clamping screw |
| 7 | 4371719 | 1 | SCREW, clamping, coupling hub |
| 8 | 4371718 | 2 | WASHER, serrated, coupling capscrew |
| 9 | 4371721 | 2 | LOCKWASHER, coupling capscrew |
| 10 | 4371717 | 2 | CAPSCREW, injection pump drive coupling |
| 11 | 4379076 | 1 | GUARD, pump flywheel (Effective with engine # 21-3315) |
| | 903637 | 1 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 12 | 4377153 | 1 | HOSE ASSEMBLY, oil supply (See page 6 for parts) |
| | 919778 | 1 | CONNECTOR, flare type, 5/16" tube, 1/4"NPT male |
| | 919766 | 1 | CONNECTOR, flare type, 5/16" tube, 1/8"NPT male |
| 13 | 4376529 | 1 | BRACKET, pump mounting |
| | 917673 | 1 | PLUG, pipe, hex-socket, 1/8"NPT (Early units) |
| | 918850 | 1 | PLUG, pipe, hex-socket, 1/4"NPT (Late units) |
| | 916311 | 4 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 14 | 4253286 | 2 | PIN, dowel, mounting bracket |
| 15 | 923645 | 4 | □O-RING, mounting bracket |
| 16 | 4379038 | 1 | COUPLING, oil drain, pump to bracket |
| 17 | 4355843 | 3 | SEAL, anti-tampering |

□Also see PACKAGED PARTS




## INJECTION NOZZLES AND LINES

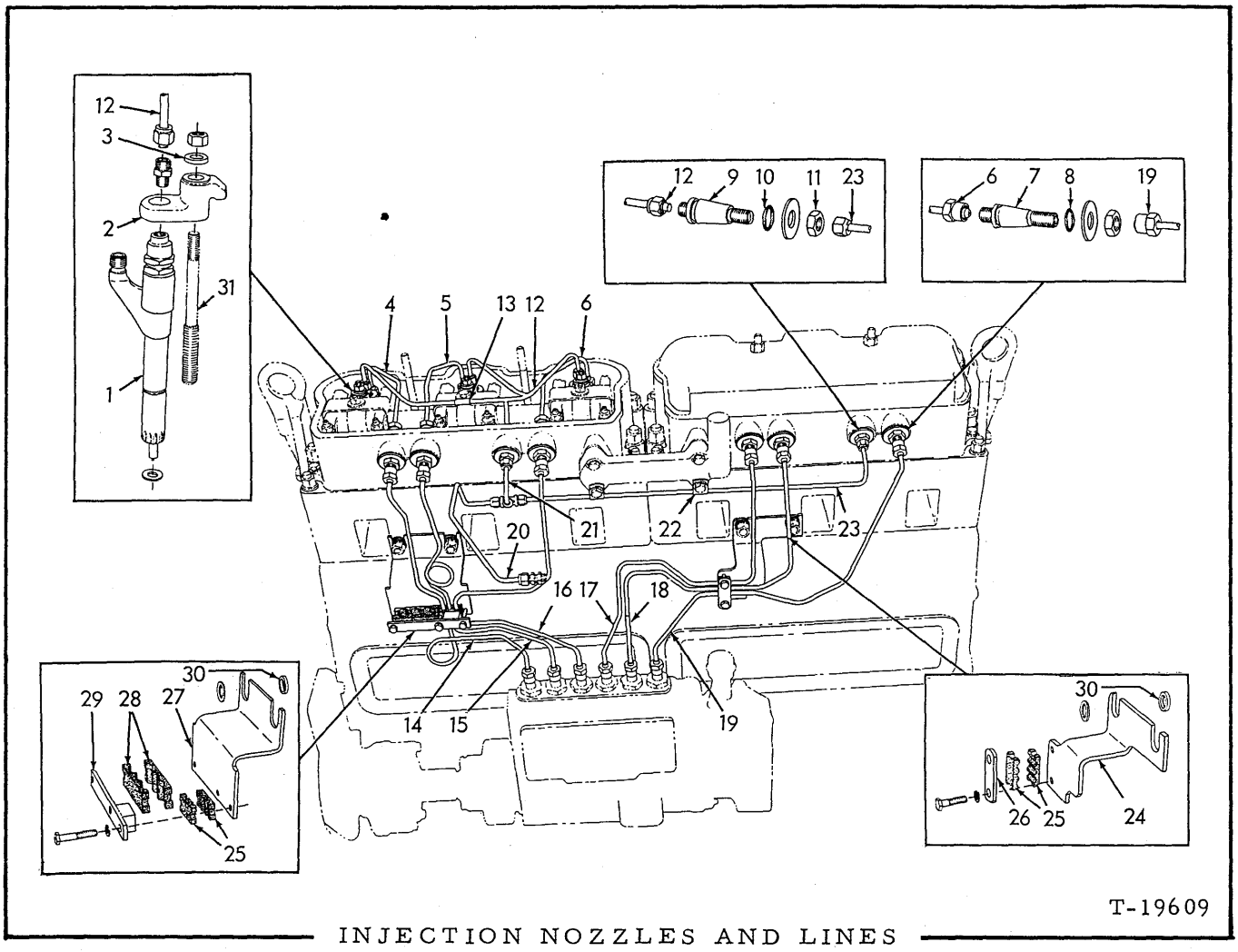
USAGE: Tractors prior to serial No. 11001 (844 series engines)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4363761 | 6 | HOLDER ASSEMBLY, nozzle (Includes items 2 thru 12) |
| 2 | 4511217 | 6 | NUT, nozzle |
| 3 | 4380445 | 6 | NOZZLE ASSEMBLY (1 body and 1 valve) |
| 4 | ------- | 6 | BODY, nozzle holder (Not serviced separately) |
| 5 | 4040094 | 6 | SPINDLE, nozzle holder |
| 6 | 4371121 | 6 | SPRING, nozzle holder |
| 7 | ------- | 6 | SEAT, nozzle holder spring (Early units) (Order SCREW 4047538) |
| 8 | ------- | 6 | SCREW, nozzle holder spring (Early units) (Order SCREW 4047538) |
| | 4047538 | 6 | SCREW, nozzle holder spring (Late units) |
| 9 | 4040096 | 6 | NUT, nozzle holder spring |
| 10 | 4040098 | 6 | NUT, nozzle holder screw |
| 11 | 4372113 | 6 | GASKET, nozzle holder cap |
| 12 | 4040099 | 6 | CAP, nozzle holder |
| 13 | 4511204 | 6 | □GASKET, nozzle holder |
| 14 | 4335573 | 12 | STUD, nozzle holder |
| | 910123 | 12 | NUT, 3/8"NF |
| | 904206 | 12 | LOCKWASHER, 3/8" |

□Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 15 | 4501149 | 12 | SLEEVE, tube |
| 16 | 4506426 | 12 | NUT, tube |
| 17 | 4016034 | 1 | CLAMP, tube |
| | 901172 | 1 | SCREW, machine, #10-24NC x 1-1/2" |
| | 910243 | 1 | WASHER, plain, #10 |
| | 904203 | 1 | LOCKWASHER, #10 |
| | 901310 | 1 | NUT, #10-24NC |
| 18 | 4363817 | 1 | SLEEVE, tube clamp (rubber) |
| 19 | 4366249 | 1 | CLIP, supporting, tube clamp |
| 20 | 4352301 | 2 | CLAMP, tube (2 grooves) |
| | 905657 | 2 | CAPSCREW, 1/4"NC x 1" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| | 910880 | 2 | NUT, 1/4"NC |
| 21 | 4350533 | 6 | CLAMP, tube (3 grooves) |
| | 905657 | 6 | CAPSCREW, 1/4"NC x 1" |
| | 904204 | 6 | LOCKWASHER, 1/4" |
| | 910880 | 6 | NUT, 1/4"NC |
| 22 | 4366194 | 1 | TUBE, fuel injection (#6 cylinder) |
| 23 | 4372867 | 1 | TUBE, fuel injection (#5 cylinder) |
| 24 | 4372866 | 1 | TUBE, fuel injection (#4 cylinder) |
| 25 | 4366191 | 1 | TUBE, fuel injection (#3 cylinder) |
| 26 | 4366190 | 1 | TUBE, fuel injection (#2 cylinder) |
| 27 | 4366189 | 1 | TUBE, fuel injection (#1 cylinder) |
| 28 | ------ | 1 | MANIFOLD, fuel return (Used prior to tractor #9001. Order 1 MANIFOLD ASSEMBLY 4375652, 1 TEE 919041, 1 ADAPTER 917032 and 5 ELBOWS 919040) |
| | 911437 | 6 | NUT, compression, 1/4" tube |
| | 911435 | 6 | SLEEVE, compression, 1/4" tube (brass) |
| | 4349376 | 5 | ELBOW, compression, 1/4" tube, 1/8"NPT male |
| | 917323 | 1 | TEE, compression, 1/4" tube, 1/8"NPT male |
| | 4375652 | 1 | MANIFOLD ASSEMBLY, fuel return (Includes NUTS and SLEEVES indented below)(Effective with tractor #9001) |
| | 917809 | 6 | NUT, Imperial, 1/4" tube |
| | 917806 | 6 | SLEEVE, Imperial, 1/4" tube (rubber) |
| | 919040 | 5 | ELBOW, Imperial, 1/4" tube, 1/8"NPT male |
| | 919041 | 1 | TEE, Imperial, 1/4" tube, 1/8"NPT male |
| | 917032 | 1 | ADAPTER, extension, 1/8"NPT male and female |




INJECTION NOZZLES AND LINES

USAGE: Tractors serial No. 11001 and up (21000 series engine)

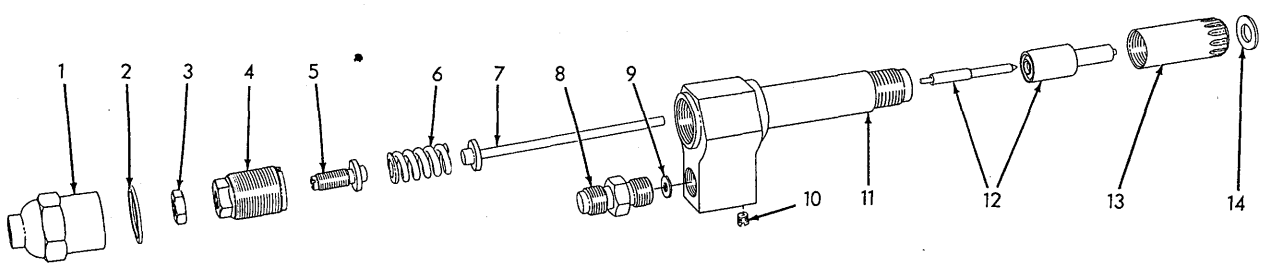
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4377111 | 6 | HOLDER ASSEMBLY, nozzle (See page 146 for parts)(Used prior to engine #21-3380, including Nos. 21-3814 thru 21-3833. Order HOLDER ASSEMBLY 4378027) |
| | 4378027 | 6 | HOLDER ASSEMBLY, nozzle (See page 147 for parts)(Effective with engine #21-3380, excluding Nos. 21-3814 thru 21-3833) |
| 2 | 4387384 | 6 | CLAMP, nozzle holder |
| | 910123 | 6 | NUT, 3/8"NF |
| 3 | 4379572 | 6 | WASHER, nozzle holder clamp |
| 4 | 4376677 | 2 | TUBE ASSEMBLY, fuel injection, internal (#1 and #4 cylinders. Includes nuts) |
| 5 | 4376678 | 2 | TUBE ASSEMBLY, fuel injection, internal (#2 and #5 cylinders. Includes nuts) |
| 6 | 4376679 | 2 | TUBE ASSEMBLY, fuel injection internal (#3 and #6 cylinders. Includes nuts) |

(Continued)

## INJECTION NOZZLES AND LINES (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 7 | 4376560 | 6 | CONNECTOR, injection line |
| | 913289 | 6 | WASHER, plain, U.S. std., 9/16" |
| | 919303 | 6 | NUT, jam, 9/16"NF |
| 8 | 4251984 | 6 | □ O-RING, injection line connector |
| 9 | 4378770 | 2 | CONNECTOR, fuel return line |
| 10 | 4251984 | 2 | □ O-RING, return line connector |
| 11 | 4377267 | 2 | NUT, return line connector (1/2"-24) |
| | 900818 | 2 | WASHER, plain, U.S. std., 1/2" |
| 12 | 4376713 | 2 | MANIFOLD ASSEMBLY, fuel return (Includes NUTS and SLEEVES indented below) |
| | 917809 | 8 | NUT, Imperial, 1/4" tube |
| | 917806 | 8 | □ SLEEVE, Imperial, 1/4" tube (rubber) |
| | 919800 | 6 | CONNECTOR, Imperial, 1/4" tube, 1/8"NPT male |
| 13 | 4377382 | 2 | CLIP, manifold supporting |
| 14 | 4377012 | 1 | TUBE ASSEMBLY, fuel injection, external (#1 cylinder. Includes nuts) |
| 15 | 4377013 | 1 | TUBE ASSEMBLY, fuel injection, external (#2 cylinder. Includes nuts) |
| 16 | 4377014 | 1 | TUBE ASSEMBLY, fuel injection, external (#3 cylinder. Includes nuts) |
| 17 | 4377015 | 1 | TUBE ASSEMBLY, fuel injection, external (#4 cylinder. Includes nuts) |
| 18 | 4377016 | 1 | TUBE ASSEMBLY, fuel injection, external (#5 cylinder. Includes nuts) |
| 19 | 4377017 | 1 | TUBE ASSEMBLY, fuel injection, external (#6 cylinder. Includes nuts) |
| 20 | 4377265 | 1 | TUBE ASSEMBLY, fuel return (Includes NUTS and SLEEVES indented below) |
| | 917809 | 2 | NUT, Imperial, 1/4" tube |
| | 917806 | 2 | SLEEVE, Imperial, 1/4" tube (rubber) |
| | 919797 | 1 | TEE, Imperial, 1/4" tube |
| | 920242 | 1 | CONNECTOR, Imperial, 1/4" tube, 1/4"NPT male |
| 21 | 4377266 | 1 | TUBE ASSEMBLY, fuel return, front (Includes NUTS and SLEEVES indented below) |
| | 917809 | 2 | NUT, Imperial, 1/4" tube |
| | 917806 | 2 | SLEEVE, Imperial, 1/4" tube (rubber) |
| 22 | 4377382 | 2 | CLIP, fuel return tube |
| 23 | 4376716 | 1 | TUBE ASSEMBLY, fuel return, rear (Includes NUTS and SLEEVES indented below) |
| | 917809 | 2 | NUT, Imperial, 1/4" tube |
| | 917806 | 2 | SLEEVE, Imperial, 1/4" tube (rubber) |
| 24 | 4377257 | 1 | BRACKET, supporting, rear injection lines |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| 25 | 4507359 | 4 | SPACER, injection lines (rubber) |
| 26 | 4507415 | 1 | PLATE, clamping, rear injection lines |
| | 915407 | 2 | CAPSCREW, 1/4"NC x 1-1/8" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| 27 | 4377252 | 1 | BRACKET, supporting, front injection lines and fuel hoses |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| 28 | 4377253 | 2 | INSERT, fuel hose clamp (rubber) |
| 29 | 4377254 | 1 | CLAMP, front injection lines and fuel hoses |
| | 916286 | 3 | CAPSCREW, 1/4"NC x 1-1/2" |
| | 904204 | 3 | LOCKWASHER, 1/4" |
| 30 | 4372864 | 8 | WASHER, backing, injection line bracket |
| 31 | ------ | - | STUD, nozzle holder clamp (See VALVE OPERATING MECHANISM) |

□ Also see PACKAGED PARTS

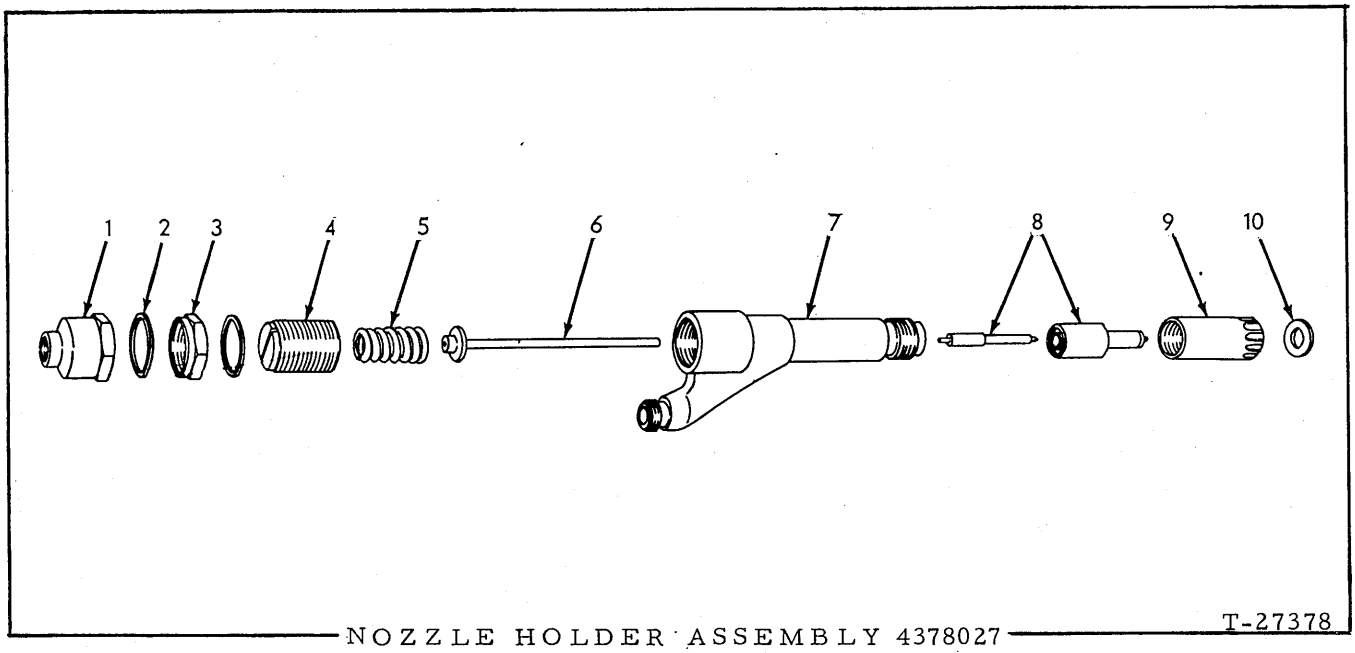



T-19610

NOZZLE HOLDER ASSEMBLY 4377111

USAGE: See page 144

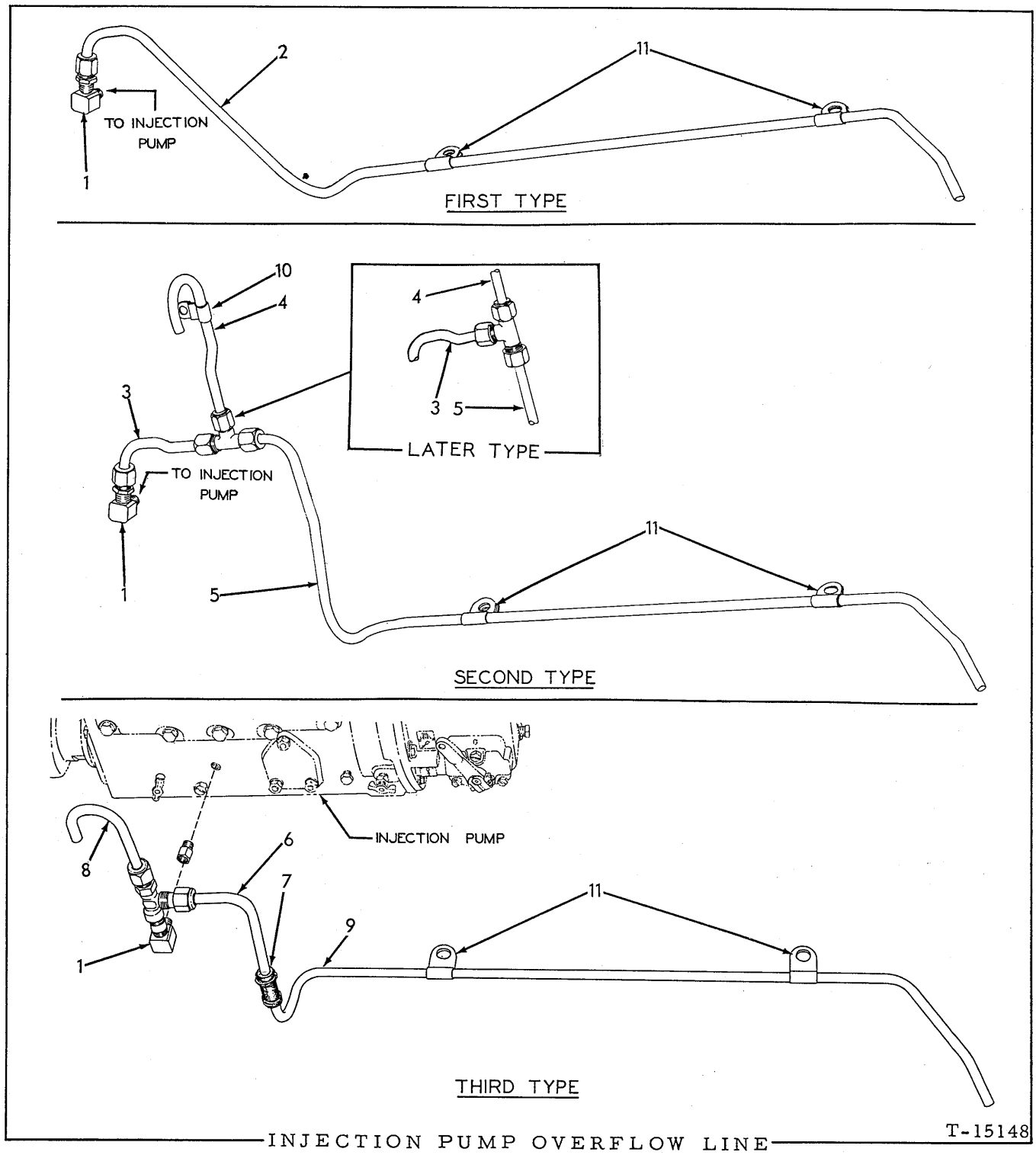
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities indicated are for one (1) Holder Assembly only |
| 1 | 4050524 | 1 | CAP, protective |
| 2 | 4049282 | 1 | GASKET, protective cap |
| 3 | 4050523 | 1 | NUT, locking, adjusting screw |
| 4 | 4050520 | 1 | NUT, spring retaining |
| 5 | 4051839 | 1 | SCREW, adjusting (includes seat) |
| 6 | 4050519 | 1 | SPRING |
| 7 | 4050517 | 1 | SPINDLE ASSEMBLY (1 spindle and 1 seat) |
| 8 | 4050526 | 1 | STUD, fuel inlet |
| 9 | 4050857 | 1 | GASKET, fuel inlet stud |
| 10 | ------- | 1 | PLUG (Not serviced separately) |
| 11 | ------- | 1 | BODY (Not serviced separately) |
| 12 | 4378020 | 1 | NOZZLE ASSEMBLY (Includes item 14) |
| 13 | 4050516 | 1 | NUT, nozzle retaining |
| 14 | 4378031 | 1 | □ GASKET, nozzle |
| | | | □ Also see PACKAGED PARTS |




NOZZLE HOLDER ASSEMBLY 4378027 T-27378

USAGE: See page 144

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities indicated are for one (1) Holder Assembly only. |
| 1 | 4378032 | 1 | NUT, cap |
| 2 | 4511243 | 2 | GASKET, cap nut |
| 3 | 4511213 | 1 | NUT, locking |
| 4 | 4378033 | 1 | SCREW, adjusting |
| 5 | 4380652 | 1 | SPRING |
| 6 | 4380198 | 1 | SPINDLE |
| 7 | ------- | 1 | BODY (Not serviced separately) |
| 8 | 4378020 | 1 | NOZZLE ASSEMBLY (Includes item 10) |
| 9 | 4378034 | 1 | NUT, nozzle retaining |
| 10 | 4378031 | 1 | □ GASKET, nozzle |
| | | | □ Also see PACKAGED PARTS |




INJECTION PUMP OVERFLOW LINE

USAGE: Engines prior to serial No. 21-2364.

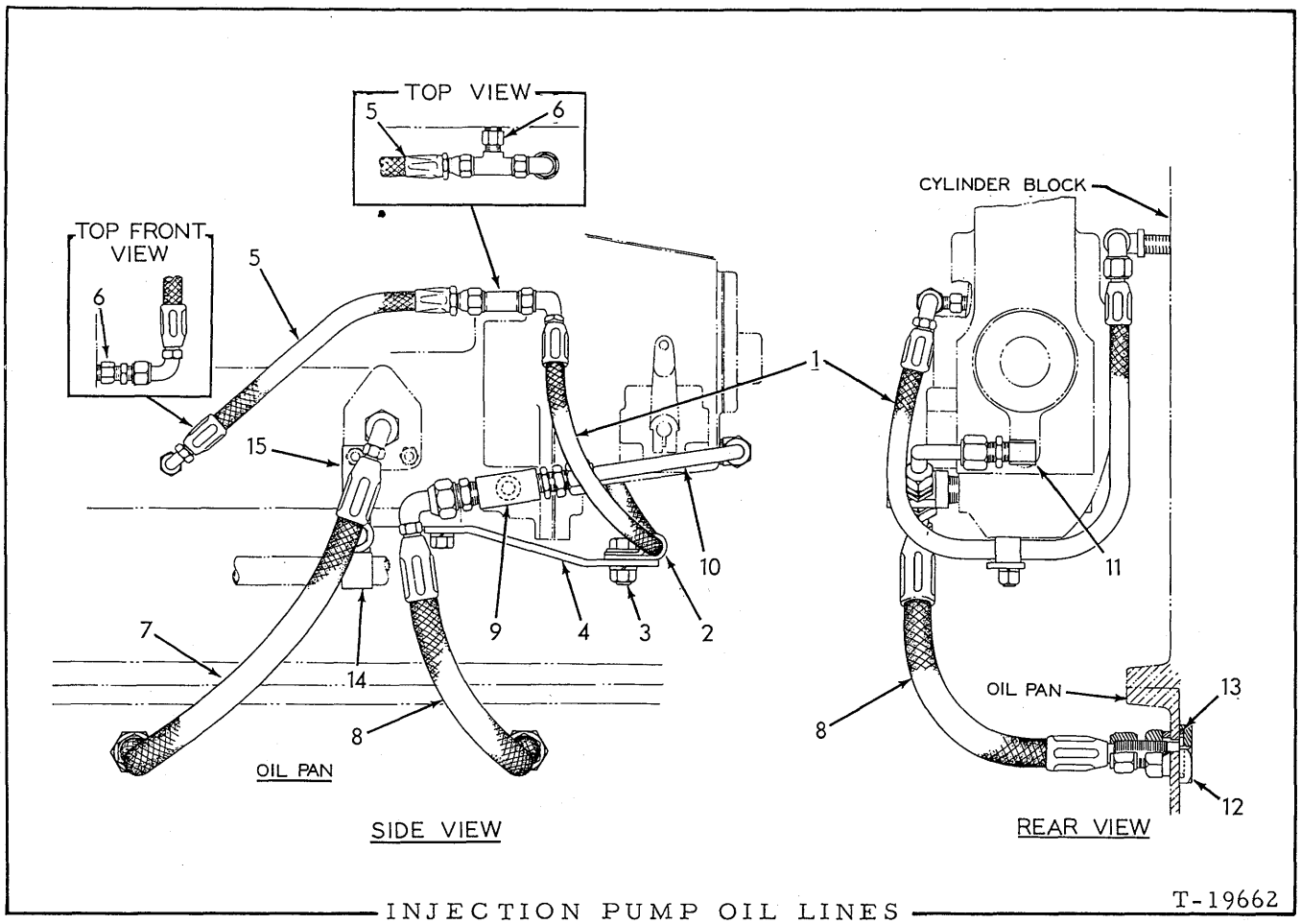
* Tractors prior to serial No. 7440
** Tractors serial No. 7440 thru 8064 and No. 8616 and up
*** Tractors serial No. 8065 thru No. 8615

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 047852 | 1 | 1 | 1 | ELBOW, fuel overflow tube |
| | 917032 | - | - | 1 | ADAPTER, pipe extension, 1/8"NPT male and female |

(Continued)

## INJECTION PUMP OVERFLOW LINE (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 2 | 084902 | 1 | - | - | TUBE, fuel overflow |
| | 918325 | 1 | - | - | NUT, Sealastic, 3/8" tube |
| | 915367 | 1 | - | - | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915368 | 1 | - | - | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| 3 | 086977 | - | 1 | - | TUBE, fuel overflow, front |
| | 918325 | - | 2 | - | NUT, Sealastic, 3/8" tube |
| | 915367 | - | 2 | - | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915368 | - | 1 | - | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| 4 | 086967 | - | 1 | - | TUBE, fuel overflow vent |
| | 918325 | - | 1 | - | NUT, Sealastic, 3/8" tube |
| | 915367 | - | 1 | - | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915371 | - | 1 | - | TEE, union, Sealastic, 3/8" tube |
| 5 | 086983 | - | 1 | - | TUBE, fuel overflow, rear (Used prior to tractor #7741) |
| | 088357 | - | 1 | - | TUBE, fuel overflow, rear (Effective with tractor #7741) |
| | 918325 | - | 1 | - | NUT, Sealastic, 3/8" tube |
| | 915367 | - | 1 | - | RING, Sealastic, 3/8" tube (Includes ferrule) |
| 6 | 090990 | - | - | 1 | TUBE, overflow, front |
| | 918325 | - | - | 1 | NUT, Sealastic, 3/8" tube |
| | 915367 | - | - | 1 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| 7 | 090991 | - | - | 1 | HOSE, rear overflow tube |
| | 918696 | - | - | 2 | CLAMP, hose, 5/8" diam. |
| 8 | 090989 | - | - | 1 | TUBE, overflow vent |
| | 918325 | - | - | 1 | NUT, Sealastic, 3/8" tube |
| | 915367 | - | - | 1 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 918775 | - | - | 1 | TEE, service, Sealastic, 3/8" tube, 1/4"NPT female |
| | 904708 | - | - | 1 | NIPPLE, pipe, 1/4"NPT x 1-1/4" |
| 9 | 090993 | - | - | 1 | TUBE, fuel overflow, rear |
| 10 | 086963 | - | 1 | - | CLIP, vent tube |
| 11 | 043344 | 2 | 2 | 2 | CLIP, rear overflow tube |




INJECTION PUMP OIL LINES T-19662

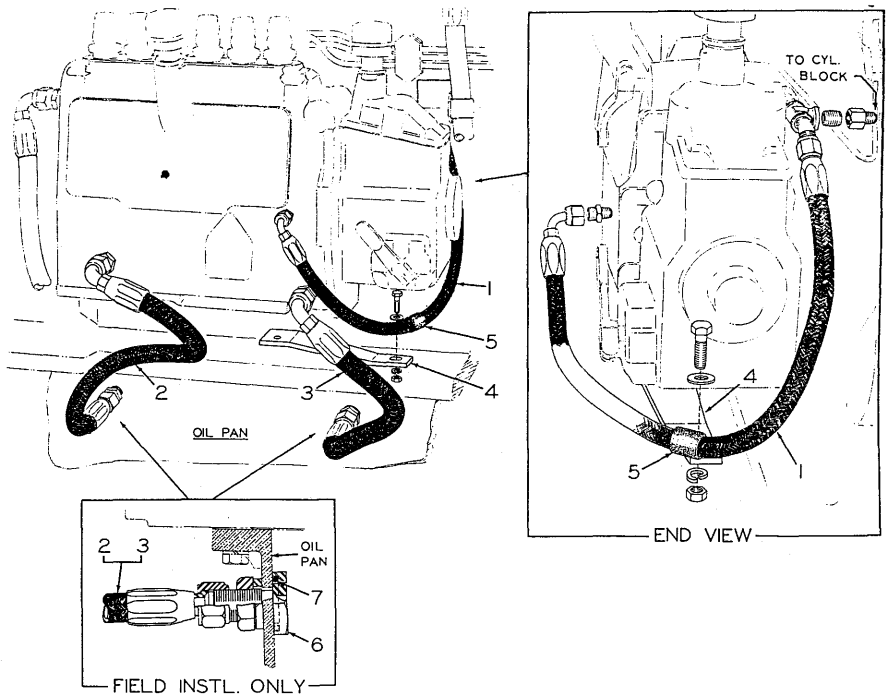
USAGE: For field conversion of engines prior to serial No. 21-2364.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4376906 | 1 | HOSE ASSEMBLY, oil supply, rear (See page 6 for parts) |
| | 919173 | 1 | ELBOW, flare type, 90°, 1/4" tube, 1/8"NPT |
| | 901702 | 1 | TEE, pipe, 1/8"NPT |
| | 901467 | 1 | NIPPLE, pipe, 1/8"NPT close |
| 2 | 4254671 | 1 | CLIP, hose supporting |
| 3 | 035167 | 1 | CAPSCREW, 3/8"NF x 7/8" |
| | 911115 | 1 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 4 | 4376911 | 1 | BRACKET, hose supporting clip |
| | 913620 | 1 | CAPSCREW, 7/16"NF x 1-1/2" (Also attaches injection pump) |
| 5 | 095685 | 1 | HOSE ASSEMBLY, oil supply, front (See page 6 for parts) |
| | 919773 | 1 | TEE, flare type, 1/4" tube, 1/8"NPT male |
| | 919171 | 1 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male |
| 6 | 097124 | 2 | ADAPTER, oil supply line (1/8"NPT male and female, restricted) |
| 7 | 4376907 | 1 | HOSE ASSEMBLY, oil drain, front (See page 6 for parts) |
| | 919063 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 8 | 4376908 | 1 | HOSE ASSEMBLY, oil drain, rear (See page 6 for parts) |
| | 919063 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |

(Continued)

## INJECTION PUMP OIL LINES (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 9 | 097122 | 1 | TEE, oil return line (3/8"NPT) |
| | 901489 | 1 | NIPPLE, pipe, 3/8"NPT close |
| 10 | 097036 | 1 | TUBE, oil drain |
| | 918325 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915368 | 2 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| | 901826 | 1 | BUSHING, pipe reducing, 3/8"NPT to 1/4"NPT |
| 11 | 097123 | 1 | ELBOW, oil drain line (1/8"NPT male, 1/4"NPT female) |
| 12 | 4376910 | 2 | CONNECTOR, oil pan |
| | 910847 | 2 | NUT, jam, 3/4"NF |
| | 904369 | 2 | LOCKWASHER, 3/4" |
| 13 | 4252761 | 2 | O-RING, oil pan connector |
| 14 | 094467 | 1 | CLIP, supporting, fuel hose |
| | 035244 | 1 | CAPSCREW, 3/8"NC x 3/4" |
| | 900817 | 1 | WASHER, plain |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911026 | 1 | NUT, 3/8"NC |
| 15 | 097281 | 1 | PLATE, fuel hose supporting clip |

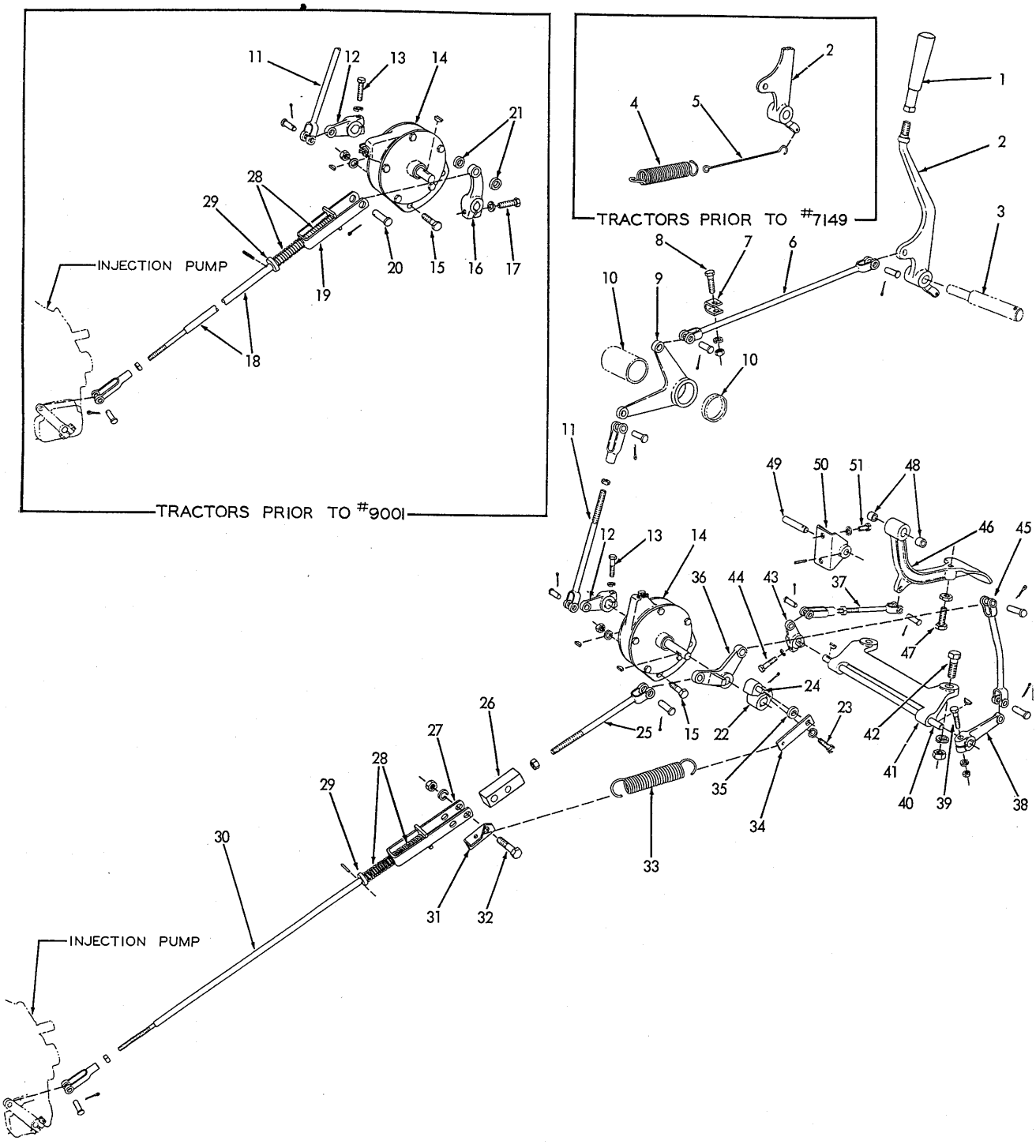



INJECTION PUMP OIL LINES — T-19558

USAGE: Effective with engine serial No. 21-2364, but later discontinued with tractor serial No. 11001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4376906 | 1 | HOSE ASSEMBLY, oil supply (See page 6 for parts) |
| | 919171 | 1 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male |
| | 919464 | 1 | ELBOW, flare type, 45°, 1/4" tube, 1/8"NPT male |
| | 917391 | 1 | TEE, pipe, brass, 1/8"NPT |
| | 901467 | 1 | NIPPLE, pipe, 1/8"NPT |
| | 917032 | 1 | ADAPTER, extension, 1/8"NPT male and female |
| 2 | 4376907 | 1 | HOSE ASSEMBLY, oil return, front (See page 6 for parts) |
| | 919063 | 2 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 3 | 4376908 | 1 | HOSE ASSEMBLY, oil return, rear (See page 6 for parts) |
| | 919063 | 2 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 4 | 4376911 | 1 | BRACKET, supporting, oil supply hose |
| 5 | 4254671 | 1 | CLAMP, oil supply hose |
| | 903775 | 1 | CAPSCREW, 3/8"NC x 7/8" |
| | 911115 | 1 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 910324 | 1 | NUT, 3/8"NC |
| | | | NOTE: Items listed below were not original equipment, being used only for field conversion of engines with thin-walled oil pans. |
| 6 | 4376910 | 2 | CONNECTOR, oil pan |
| | 910847 | 2 | NUT, jam, 3/4"NF |
| | 904369 | 2 | LOCKWASHER, 3/4" |
| 7 | 4252761 | 2 | O-RING, oil pan connector |

MEMO




THROTTLE CONTROL (First type. Models HD21A, F) T-17502

# THROTTLE CONTROL

USAGE: Model HD21A,F tractors prior to serial No. 11001

* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

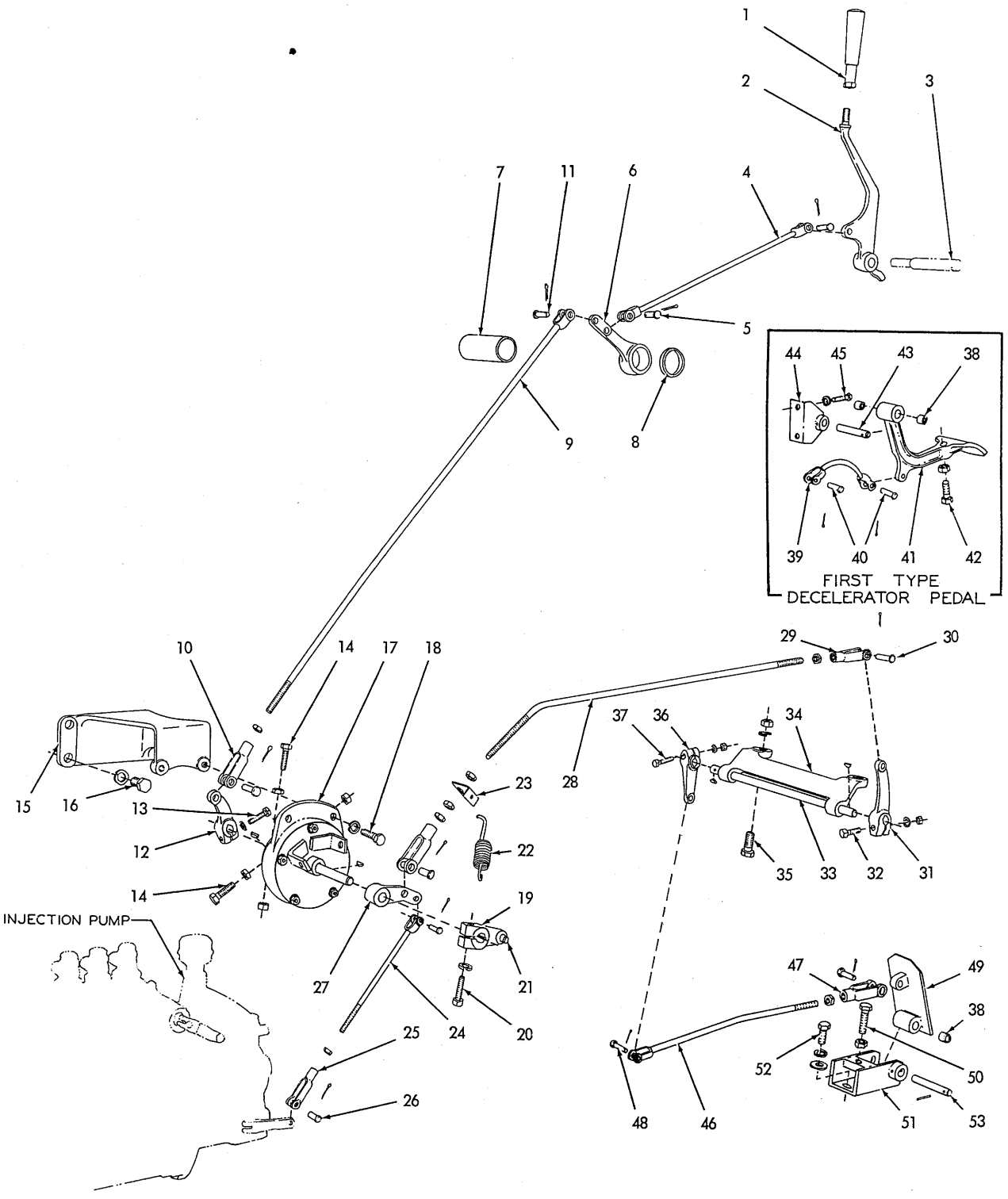
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 078620 | 1 | 1 | GRIP, operating lever |
| 2 | 074574 | 1 | 1 | LEVER, operating |
| 3 | ------ | - | - | SHAFT, operating lever (See STEERING LEVERS AND LINKAGE) |
| 4 | 043881 | 1 | - | SPRING, operating lever retracting (Used prior to tractor #7149) |
| 5 | 057885 | 1 | - | LINK, operating lever retracting spring (Used prior to tractor #7149) |
| 6 | 052569 | 1 | 1 | ROD, upper |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 7 | 080197 | 1 | 1 | CLAMP, stop |
| 8 | 012992 | 1 | 1 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 9 | 081094 | 1 | 1 | BELLCRANK |
| 10 | ------ | - | - | SPACER (See ENGINE SHUT-OFF CONTROL) |
| 11 | 081119 | 1 | - | ROD, intermediate (7-1/2" long) |
| | 081367 | - | 1 | ROD, intermediate (8-1/4" long) |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| | 628736 | 1 | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 12 | 040517 | 1 | 1 | LEVER, intermediate rod |
| | 905121 | 1 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 13 | 037450 | 1 | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | 1 | LOCKWASHER, 5/16" |
| 14 | 081106 | 1 | - | THROTTLE ASSEMBLY (See page 170 for parts) |
| | 093380 | - | 1 | THROTTLE ASSEMBLY (See page 170 for parts) |
| 15 | 012992 | 2 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | NUT, 3/8"NF |
| 16 | 055416 | 1 | - | LEVER, lower rod |
| | 905121 | 1 | - | KEY, #5 woodruff, 1/8" x 5/8" |
| 17 | 037450 | 1 | - | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | - | LOCKWASHER, 5/16" |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 18 | 081674 | 1 | - | ROD, lower |
| | 911040 | 1 | - | NUT, 1/4"NF |
| | 628737 | 1 | - | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | 1 | - | • PIN, yoke, 1/4" diam. |
| | 900970 | 1 | - | PIN, cotter, 1/16" x 1/2" |
| 19 | 078967 | 1 | - | YOKE, lower rod |
| 20 | 082875 | 1 | - | PIN, lower rod yoke |
| | 900942 | 1 | - | PIN, cotter, 3/32" x 5/8" |
| 21 | 081672 | 2 | - | SPACER, lower rod yoke |
| 22 | 094060 | - | 1 | LEVER ASSEMBLY, retracting spring (Includes item 24) |
| | 905121 | - | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 23 | 037450 | - | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | - | 1 | LOCKWASHER, 5/16" |
| 24 | 094059 | - | 1 | PIN, retracting spring lever |
| | 900942 | - | 1 | PIN, cotter, 3/32" x 5/8" |
| 25 | 092881 | - | 1 | ROD, lower rear |
| | 911041 | - | 1 | NUT, 3/8"NF |
| | 078810 | - | 1 | PIN, yoke, 3/8" diam. |
| | 900942 | - | 1 | PIN, cotter, 3/32" x 5/8" |
| 26 | 093078 | - | 1 | BLOCK, lower front rod yoke |
| 27 | 093079 | - | 1 | YOKE, lower front rod |
| 28 | 035910 | 2 | 2 | SPRING, lower rod |
| 29 | 044973 | 1 | 1 | WASHER, bearing, lower rod spring |
| | 916202 | 1 | 1 | PIN, roll, 1/8" x 7/8" |
| 30 | 093080 | - | 1 | ROD, lower front |
| | 911040 | - | 1 | NUT, 1/4"NF |
| | 628737 | - | 1 | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | - | 1 | PIN, yoke, 1/4" diam. |
| | 900970 | - | 1 | PIN, cotter, 1/16" x 1/2" |
| 31 | 093076 | - | 1 | CLIP, front, retracting spring |
| 32 | 035336 | - | 2 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| | 911041 | - | 2 | NUT, 3/8"NF |
| 33 | 043881 | - | 1 | SPRING, retracting |
| 34 | 093077 | - | 1 | CLIP, rear, retracting spring |
| 35 | 092665 | - | 1 | WASHER, spacing, retracting spring clip |
| 36 | 092884 | - | 1 | LEVER, decelerator front rod |
| 37 | 092881 | - | 1 | ROD, rear, decelerator |
| | 911041 | - | 1 | NUT, 3/8"NF |
| | 628736 | - | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | - | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | - | 2 | PIN, cotter, 3/32" x 5/8" |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 38 | 081619 | - | 1 | LEVER, cross shaft, left side |
| | 905121 | - | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 39 | 041981 | - | 1 | CAPSCREW, 5/16"NF x 1-1/2" |
| | 904205 | - | 1 | LOCKWASHER, 5/16" |
| | 913636 | - | 1 | NUT, 5/16"NF |
| 40 | 092875 | - | 1 | SHAFT, cross |
| 41 | 092886 | - | 1 | BRACKET, cross shaft |
| 42 | 035018 | - | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | - | 2 | LOCKWASHER, 1/2" |
| | 911043 | - | 2 | NUT, 1/2"NF |
| 43 | 040517 | - | 1 | LEVER, cross shaft, right side |
| | 905121 | - | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 44 | 037450 | - | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | - | 1 | LOCKWASHER, 5/16" |
| 45 | 092882 | - | 1 | ROD, front, decelerator |
| | 078810 | - | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | - | 2 | PIN, cotter, 3/32" x 5/8" |
| 46 | 092871 | - | 1 | PEDAL ASSEMBLY, decelerator (Includes item 48) |
| 47 | 035733 | - | 1 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 911035 | - | 1 | NUT, jam, 1/2"NC |
| 48 | 049988 | - | 2 | BUSHING, decelerator pedal |
| 49 | 093685 | - | 1 | SHAFT, decelerator pedal |
| | 918111 | - | 1 | PIN, roll, 1/8" x 1" |
| 50 | 092878 | - | 1 | BRACKET, decelerator pedal |
| 51 | 036032 | - | 2 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |




THROTTLE CONTROL (Second type. Models HD21A, F) T-19657

# THROTTLE CONTROL

USAGE: Model HD21A,F tractors serial No. 11001 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 078620 | 1 | GRIP, operating lever |
| 2 | 074574 | 1 | LEVER, operating |
| 3 | ------ | 1 | SHAFT, operating lever (See STEERING LEVERS AND LINKAGE) |
| 4 | 096399 | 1 | ROD, upper |
| 5 | 078810 | 2 | PIN, yoke, upper rod |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| 6 | 096336 | 1 | LEVER, upper rod |
| 7 | 096409 | 1 | SPACER, lever (4-3/16" long) |
| 8 | 081132 | 1 | SPACER, lever (5/16" thick) |
| 9 | 096331 | 1 | ROD, intermediate |
| | 911048 | 1 | NUT, jam, 3/8"NF |
| 10 | 628736 | 1 | YOKE, intermediate rod |
| 11 | 078810 | 2 | PIN, yoke, intermediate rod |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| 12 | 055416 | 1 | LEVER, intermediate rod |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 13 | 037450 | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | LOCKWASHER, 5/16" |
| 14 | 012992 | 2 | CAPSCREW, lever stop (3/8"NF x 1-1/4") |
| | 911048 | 2 | NUT, jam, 3/8"NF |
| | 911041 | 2 | NUT, 3/8"NF |
| 15 | 096341 | 1 | BRACKET, throttle mounting |
| 16 | 097494 | 3 | CAPSCREW, Nylok, 1/2"NC x 1" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 17 | 096350 | 1 | THROTTLE ASSEMBLY (See page 170 for parts) |
| 18 | 012992 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 19 | 096244 | 1 | LEVER ASSEMBLY, retracting spring (Includes item 21) |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 20 | 037450 | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | LOCKWASHER, 5/16" |
| 21 | 096242 | 1 | PIN, retracting spring lever |
| 22 | 049108 | 1 | SPRING, retracting |
| 23 | 096337 | 1 | ANGLE, retracting spring |
| | 911048 | 2 | NUT, jam, 3/8"NF |
| 24 | 096241 | 1 | ROD, lower |
| | 910267 | 1 | NUT, 1/4"NF |
| 25 | 628737 | 1 | YOKE, lower rod |

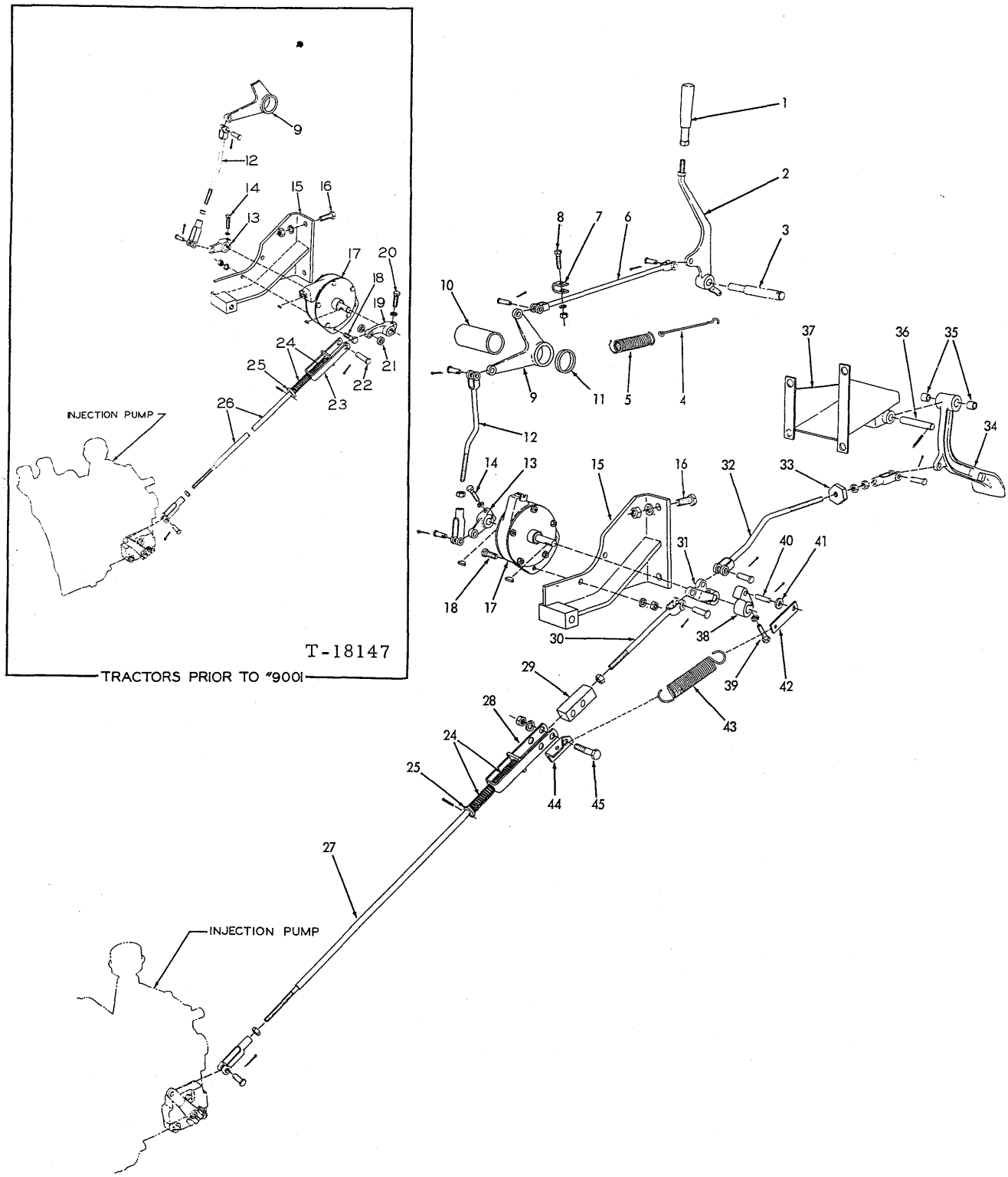
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| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 26 | 628738 | 2 | PIN, yoke, lower rod |
| | 900970 | 2 | PIN, cotter, 1/16" x 1/2" |
| 27 | 096334 | 1 | LEVER, decelerator rod |
| 28 | 096333 | 1 | ROD, front, decelerator |
| | 911048 | 2 | NUT, jam, 3/8"NF |
| 29 | 628736 | 2 | YOKE, decelerator front rod |
| 30 | 078810 | 2 | PIN, yoke, decelerator front rod |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| 31 | 093797 | 1 | LEVER, cross shaft, left side |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 32 | 041981 | 1 | CAPSCREW, 5/16"NF x 1-1/2" |
| | 904205 | 1 | LOCKWASHER, 5/16" |
| | 913636 | 1 | NUT, 5/16"NF |
| 33 | 096397 | 1 | SHAFT, cross |
| 34 | 092886 | 1 | BRACKET, cross shaft |
| 35 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 36 | 092885 | 1 | LEVER, cross shaft, right side |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 37 | 041981 | 1 | CAPSCREW, 5/16"NF x 1-1/2" |
| | 904205 | 1 | LOCKWASHER, 5/16" |
| | 913636 | 1 | NUT, 5/16"NF |
| 38 | 049988 | 2 | BUSHING, decelerator pedal |
| | | | NOTE: Items 39 thru 45 comprise the FIRST TYPE DECELERATOR PEDAL design used on tractors prior to serial No. 12001 |
| 39 | 096335 | 1 | ROD, decelerator pedal |
| 40 | 078810 | 2 | PIN, yoke, decelerator pedal rod |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| 41 | 092871 | 1 | PEDAL ASSEMBLY, decelerator (Includes item 38) |
| 42 | 035733 | 1 | CAPSCREW, pedal stop (1/2"NC x 1-3/8") |
| | 911035 | 1 | NUT, jam, 1/2"NC |
| 43 | 093685 | 1 | SHAFT, decelerator pedal |
| | 918111 | 1 | PIN, roll, 1/8" x 1" |
| 44 | 092878 | 1 | BRACKET, decelerator pedal |
| 45 | 036032 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | | | NOTE: Items 46 thru 53 comprise the SECOND TYPE DECELERATOR PEDAL design effective with tractor serial No. 12001 |
| 46 | 620954 | 1 | ROD, decelerator pedal |
| | 911048 | 1 | NUT, jam, 3/8"NF |
| 47 | 628736 | 1 | YOKE, decelerator pedal rod |

(Continued)

## THROTTLE CONTROL (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 48 | 078810 | 2 | PIN, yoke, decelerator pedal rod |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| 49 | 620946 | 1 | PEDAL ASSEMBLY, decelerator (Includes item 38) |
| 50 | 036203 | 1 | SCREW, pedal stop |
| | 911035 | 1 | NUT, jam, 1/2"NC |
| 51 | 620951 | 1 | BRACKET, decelerator pedal |
| 52 | 044249 | 2 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911115 | 2 | WASHER, plain, SAE std., 3/8" |
| 53 | 620955 | 1 | SHAFT, decelerator pedal |
| | 918111 | 1 | PIN, roll, 1/8" x 1" |




T-18167

THROTTLE CONTROL (First type. Model HD21G)

# THROTTLE CONTROL

USAGE: Model HD21G tractors prior to serial No. 11001

* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 078620 | 1 | 1 | GRIP, throttle operating lever |
| 2 | 074574 | 1 | 1 | LEVER, operating, throttle |
| 3 | ------ | 1 | 1 | SHAFT, throttle operating lever (See STEERING LEVERS AND LINKAGE) |
| 4 | 057885 | 1 | 1 | LINK, throttle lever retracting spring (Used prior to tractor #9027) |
| 5 | 043881 | 1 | 1 | SPRING, retracting, throttle operating lever (Used prior to tractor #9027) |
| 6 | 052569 | 1 | 1 | ROD, rear |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 7 | 080197 | 1 | 1 | CLAMP, stop, throttle control rod |
| 8 | 012992 | 1 | 1 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 9 | 081094 | 1 | 1 | BELLCRANK |
| 10 | 084505 | 1 | 1 | SPACER, bellcrank (4-1/4" long) |
| 11 | 081132 | 1 | 1 | SPACER, bellcrank (5/16" long) |
| 12 | 084364 | 1 | - | ROD, intermediate |
| | 094235 | - | 1 | ROD, intermediate |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| | 628736 | 1 | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 13 | 040517 | 1 | 1 | LEVER, throttle control intermediate rod |
| | 905121 | 1 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 14 | 037450 | 1 | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | 1 | LOCKWASHER, 5/16" |
| 15 | 084485 | 1 | 1 | BRACKET, throttle mounting |
| 16 | 035018 | 2 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | NUT, 1/2"NF |
| 17 | 081106 | 1 | - | THROTTLE ASSEMBLY (See page 170 for parts) |
| | 093380 | - | 1 | THROTTLE ASSEMBLY (See page 170 for parts) |
| 18 | 012992 | 2 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | NUT, 3/8"NF |

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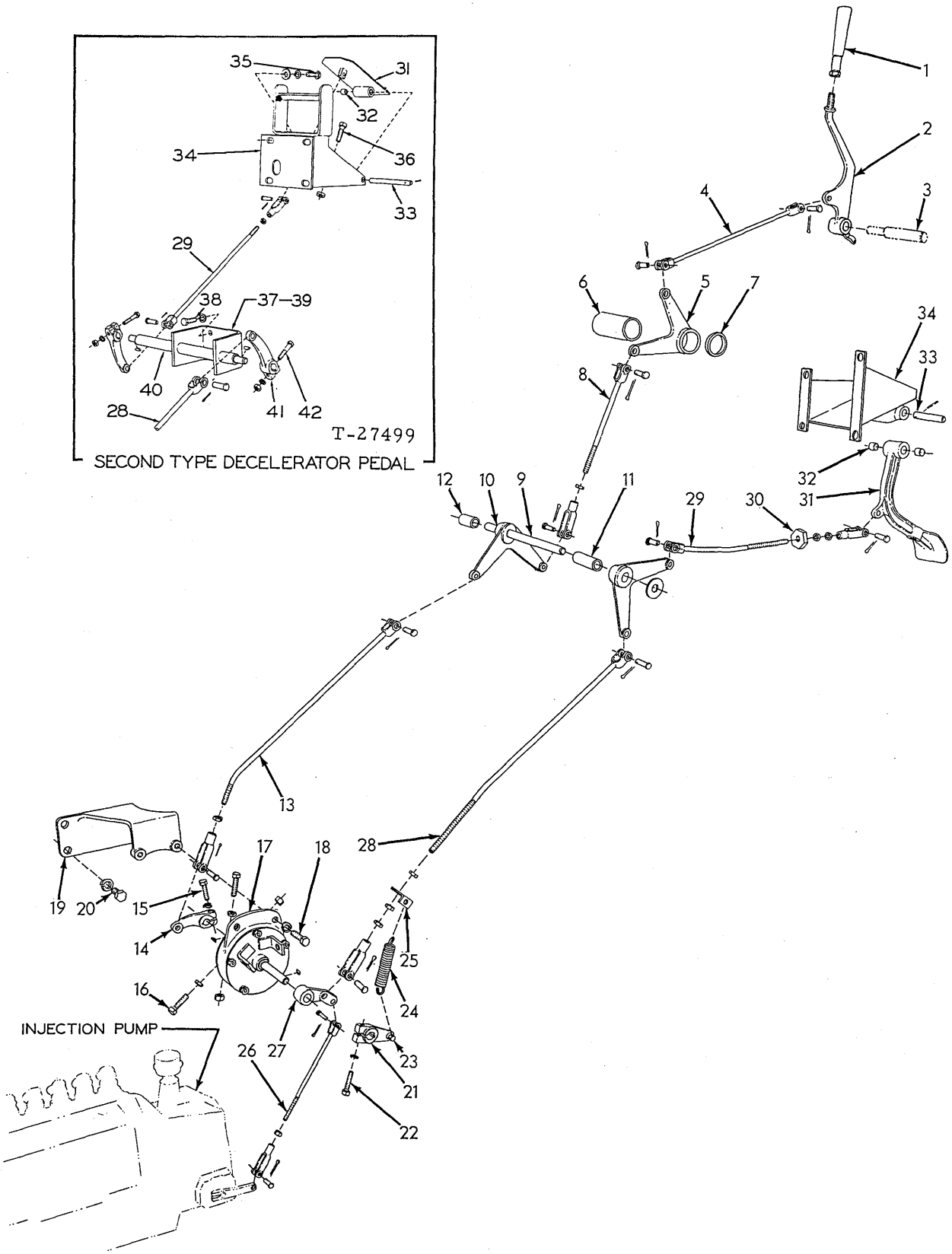
## THROTTLE CONTROL (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 19 | 055416 | 1 | - | LEVER, front throttle rod |
| | 905121 | 1 | - | KEY, #5 woodruff, 1/8" x 5/8" |
| 20 | 037450 | 1 | - | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | - | LOCKWASHER, 5/16" |
| 21 | 081672 | 2 | - | SPACER, front throttle rod yoke |
| 22 | 082875 | 1 | - | PIN, control rod yoke |
| | 900942 | 1 | - | PIN, cotter, 3/32" x 5/8" |
| 23 | 078967 | 1 | - | YOKE, front throttle rod |
| 24 | 035910 | 2 | 2 | SPRING, front throttle rod |
| 25 | 044973 | 1 | 1 | WASHER, bearing, throttle rod spring |
| | 916202 | 1 | 1 | PIN, roll, 1/8" x 7/8" |
| 26 | 081674 | 1 | - | ROD, throttle control, front |
| | 911040 | 1 | - | NUT, 1/4"NF |
| | 628737 | 1 | - | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | 1 | - | PIN, yoke, 1/4" diam. |
| | 900970 | 1 | - | PIN, cotter, 1/16" x 1/2" |
| 27 | 093080 | - | 1 | ROD, lower front |
| | 911040 | - | 1 | NUT, 1/4"NF |
| | 628737 | - | 1 | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | - | 1 | PIN, yoke, 1/4" diam. |
| | 900970 | - | 1 | PIN, cotter, 1/16" x 1/2" |
| 28 | 093079 | - | 1 | YOKE, lower front rod |
| 29 | 093078 | - | 1 | BLOCK, lower front rod yoke |
| 30 | 092881 | - | 1 | ROD, lower rear |
| | 911041 | - | 1 | NUT, 3/8"NF |
| | 078810 | - | 1 | PIN, yoke, 3/8" diam. |
| | 900942 | - | 1 | PIN, cotter, 3/32" x 5/8" |
| 31 | 093456 | - | 1 | LEVER, decelerator rod |
| 32 | 093457 | - | 1 | ROD, decelerator |
| | 911041 | - | 2 | NUT, 3/8"NF |
| | 628736 | - | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | - | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | - | 2 | PIN, cotter, 3/32" x 5/8" |
| 33 | 093780 | - | 1 | NUT, decelerator stop |
| 34 | 092871 | - | 1 | PEDAL ASSEMBLY, decelerator (Includes item 35) |
| 35 | 049988 | - | 2 | BUSHING, decelerator pedal |
| 36 | 093685 | - | 1 | SHAFT, decelerator pedal |
| | 918111 | - | 1 | PIN, roll, 1/8" x 1" |
| 37 | 093462 | - | 1 | BRACKET, decelerator pedal |

(Continued)

## THROTTLE CONTROL (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 38 | 094060 | - | 1 | LEVER ASSEMBLY, retracting spring (Includes item 40) |
| | 905121 | - | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 39 | 037450 | - | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | - | 1 | LOCKWASHER, 5/16" |
| 40 | 094059 | - | 1 | PIN, retracting spring lever |
| | 900942 | - | 1 | PIN, cotter, 3/32" x 5/8" |
| 41 | 092665 | - | 1 | WASHER, spacing, retracting spring clip |
| 42 | 093077 | - | 1 | CLIP, rear, retracting spring |
| 43 | 043881 | - | 1 | SPRING, retracting |
| 44 | 093076 | - | 1 | CLIP, front, retracting spring |
| 45 | 035336 | - | 2 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| | 911041 | - | 2 | NUT, 3/8"NF |




THROTTLE CONTROL (Second type. Model HD21G) T-19658

# THROTTLE CONTROL

USAGE: Model HD21G tractors serial No. 11001 and up

* Tractors prior to serial No. 11725, including No. 11798

** Tractors serial No. 11725 and up, excluding No. 11798

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 078620 | 1 | 1 | GRIP, operating lever |
| 2 | 074574 | 1 | 1 | LEVER, operating |
| 3 | ------ | 1 | 1 | SHAFT, operating lever (See STEERING LEVERS AND LINKAGE) |
| 4 | 052569 | 1 | 1 | ROD, upper |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 5 | 081094 | 1 | 1 | BELLCRANK |
| 6 | 096409 | 1 | 1 | SPACER, bellcrank (4-3/16" long) |
| 7 | 081132 | 1 | 1 | SPACER, bellcrank (5/16" thick) |
| 8 | 097119 | 1 | - | ROD, intermediate, upper |
| | 084474 | - | 1 | ROD, intermediate, upper |
| | 911048 | 1 | 1 | NUT, jam, 3/8"NF |
| | 628736 | 1 | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 9 | ------ | 1 | 1 | SHAFT, cross (See ENGINE SHUT-OFF CONTROL) |
| 10 | 097118 | 2 | 1 | LEVER, cross shaft |
| | 910244 | 1 | - | WASHER, plain, SAE std., 1/2" (spacing) |
| 11 | 096938 | 1 | - | SPACER, cross shaft levers (2-1/2" long) |
| | 622584 | - | 1 | SPACER, cross shaft levers (3-11/16" long) |
| 12 | 626635 | 1 | 1 | SPACER, cross shaft levers (1-11/16" long) |
| 13 | 097116 | 1 | 1 | ROD, intermediate, lower |
| | 911048 | 1 | 1 | NUT, jam, 3/8"NF |
| | 628736 | 1 | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 14 | 055416 | 1 | 1 | LEVER, intermediate lower rod |
| | 905121 | 1 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 15 | 037450 | 1 | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | 1 | LOCKWASHER, 5/16" |
| 16 | 012992 | 2 | 2 | CAPSCREW, lever stop (3/8"NF x 1-1/4" |
| | 911048 | 2 | 2 | NUT jam, 3/8"NF |
| | 911041 | 2 | 2 | NUT, 3/8"NF |

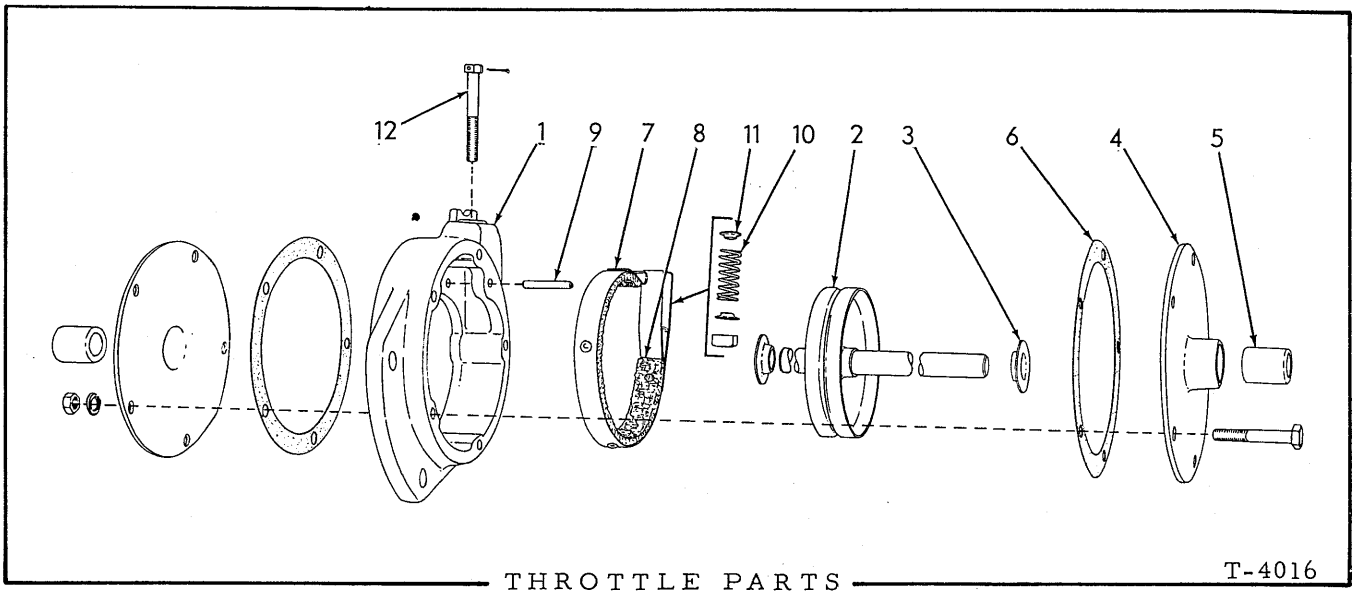
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| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 17 | 096350 | 1 | 1 | THROTTLE ASSEMBLY (See page 170 for parts) |
| 18 | 012992 | 2 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| 19 | 096341 | 1 | 1 | BRACKET, throttle mounting |
| 20 | 097494 | 3 | 3 | CAPSCREW, Nylok, 1/2"NC x 1" |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 21 | 096244 | 1 | 1 | LEVER ASSEMBLY, retracting spring (Includes item 23) |
| | 905151 | 1 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 22 | 037450 | 1 | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | 1 | LOCKWASHER, 5/16" |
| 23 | 096242 | 1 | 1 | PIN, retracting spring lever |
| 24 | 049108 | 1 | 1 | SPRING, retracting |
| 25 | 096337 | 1 | 1 | ANGLE, retracting spring |
| 26 | 096241 | 1 | 1 | ROD, lower |
| | 910267 | 1 | 1 | NUT, jam, 1/4"NF |
| | 628737 | 1 | 1 | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | 2 | 2 | PIN, yoke, 1/4" diam. |
| | 900970 | 2 | 2 | PIN, cotter, 1/16" x 1/2" |
| 27 | 096334 | 1 | 1 | LEVER, decelerator |
| 28 | 097111 | 1 | - | ROD, front, decelerator |
| | 622582 | - | 1 | ROD, front, decelerator |
| | 911048 | 3 | 3 | NUT, jam, 3/8"NF |
| | 628736 | 1 | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 29 | 097114 | 1 | - | ROD, rear, decelerator |
| | 631651 | - | 1 | ROD, rear, decelerator |
| | 911048 | 1 | 1 | NUT, jam, 3/8"NF |
| | 628736 | 1 | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | 2 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 30 | 093780 | 1 | - | NUT, decelerator stop |
| | 911048 | 1 | - | NUT, jam, 3/8" |
| 31 | 092871 | 1 | - | PEDAL ASSEMBLY, decelerator (Includes item 32) |
| | 622576 | - | 1 | PEDAL ASSEMBLY, decelerator (Includes item 32) |
| 32 | 049988 | 2 | 2 | BUSHING, decelerator pedal |
| 33 | 093685 | 1 | - | SHAFT, decelerator pedal |
| | 622575 | - | 1 | SHAFT, decelerator pedal |
| | 918111 | 1 | 1 | PIN, roll, 1/8" x 1" |

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## THROTTLE CONTROL (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 34 | 093462 | 1 | - | BRACKET, decelerator pedal |
| | 622569 | - | 1 | BRACKET, decelerator pedal |
| 35 | 614478 | - | 4 | CAPSCREW, 1/2"NF x 1-3/8" |
| | 904208 | - | 4 | LOCKWASHER, 1/2" |
| | 064531 | - | 4 | WASHER, plain |
| 36 | 036203 | - | 1 | CAPSCREW, decelerator stop (1/2"NC x 1-3/4") |
| | 911035 | - | 1 | NUT, jam, 1/2"NC |
| 37 | 622771 | - | 1 | BRACKET ASSEMBLY, decelerator control shaft (Includes item 39) |
| 38 | 036034 | - | 3 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | - | 3 | LOCKWASHER, 3/8" |
| 39 | 049988 | - | 2 | BUSHING, control shaft bracket |
| 40 | 622583 | - | 1 | SHAFT, cross, decelerator control |
| | 905121 | - | 2 | KEY, #5 woodruff, 1/8" x 5/8" |
| 41 | 093797 | - | 2 | LEVER, decelerator control |
| 42 | 041981 | - | 2 | CAPSCREW, 5/16" NF x 1-1/2" |
| | 904205 | - | 2 | LOCKWASHER, 5/16" |
| | 913636 | - | 2 | NUT, 5/16"NF |

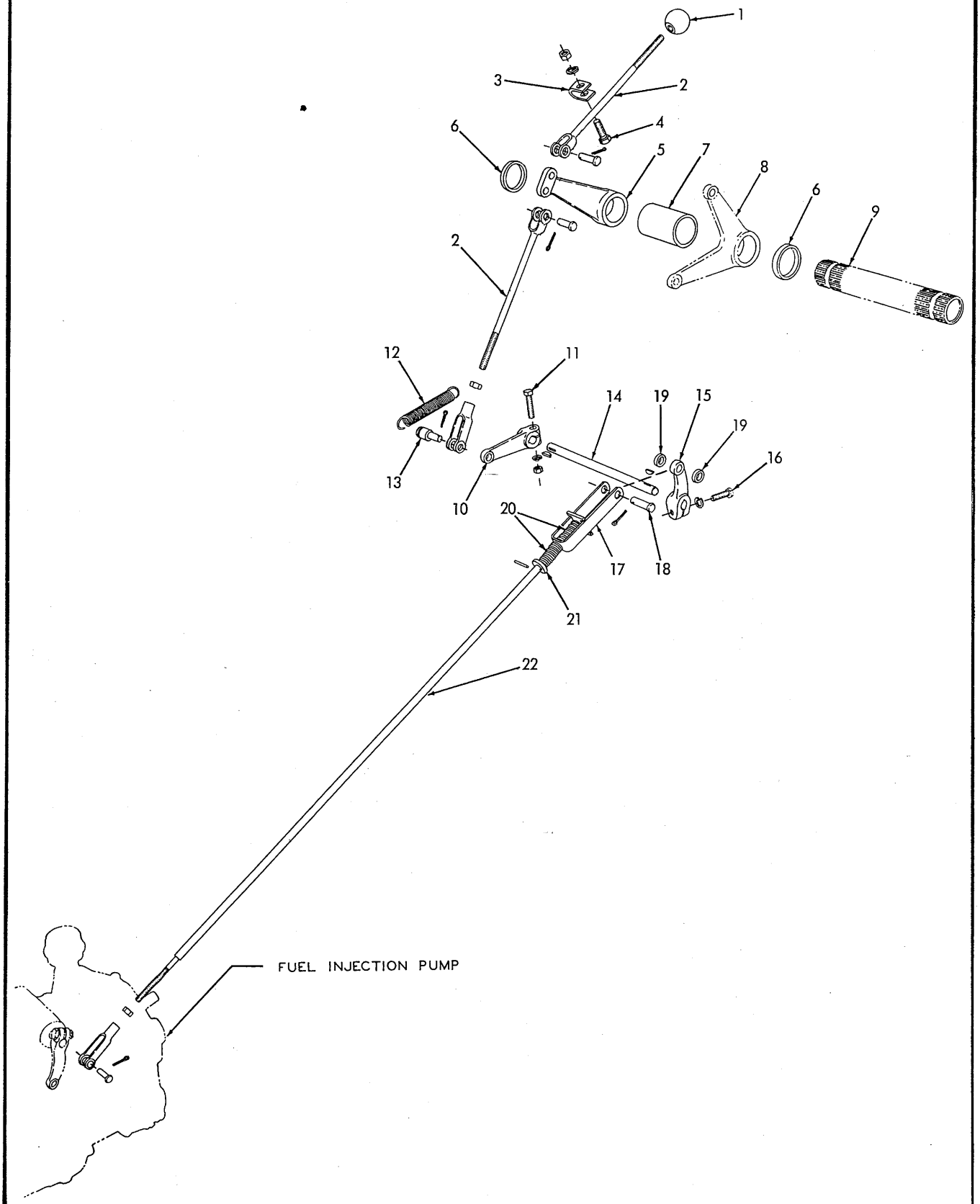



THROTTLE PARTS

* 081106 THROTTLE ASSEMBLY (See pages 155 and 163)
** 093380 THROTTLE ASSEMBLY (See pages 155 and 163)
*** 096350 THROTTLE ASSEMBLY (See pages 159 and 167)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION | |
|---|---|---|---|---|---|---|
| 1 | 068862 | 1 | 1 | 1 | CAPSCREW, friction band adjustment | |
| | 904020 | 1 | 1 | 1 | PIN, cotter, 1/16" x 1" | |
| | 901150 | 1 | 1 | 1 | NUT, square, 1/4"NC | |
| 2 | 068859 | 1 | 1 | 1 | HOUSING | |
| 3 | 068869 | 1 | 1 | 1 | PIN, friction band | |
| 4 | 068861 | 1 | 1 | 1 | BAND ASSEMBLY, friction (Includes item 5) | |
| 5 | 068864 | 1 | 1 | 1 | LINING, friction band | |
| | 915707 | 4 | 4 | 4 | RIVET, tubular, brass, 9/64" x 1/4" | |
| 6 | 069349 | 2 | 2 | 2 | COLLAR, friction band spring | |
| 7 | 068911 | 1 | 1 | 1 | SPRING, friction band | |
| 8 | 081105 | 1 | - | - | DRUM AND SHAFT | |
| | 092876 | - | 1 | - | DRUM AND SHAFT | |
| | 096347 | - | - | 1 | DRUM AND SHAFT | |
| 9 | 069996 | 2 | 2 | 2 | WASHER, thrust | |
| 10 | 068865 | 2 | 2 | 2 | GASKET, cover plate | |
| 11 | 068866 | 2 | 2 | - | PLATE ASSEMBLY, cover | Includes item 12 |
| | 096348 | - | - | 1 | PLATE ASSEMBLY, cover, outer | |
| | 096349 | - | - | 1 | PLATE ASSEMBLY, cover, inner | |
| | 914892 | 5 | 5 | 5 | CAPSCREW, 1/4"NF x 1-3/4" | |
| | 904204 | 5 | 5 | 5 | LOCKWASHER, 1/4" | |
| | 911040 | 5 | 5 | 5 | NUT, 1/4"NF | |
| 12 | 071800 | 2 | 2 | 2 | BUSHING, throttle shaft | |

MEMO

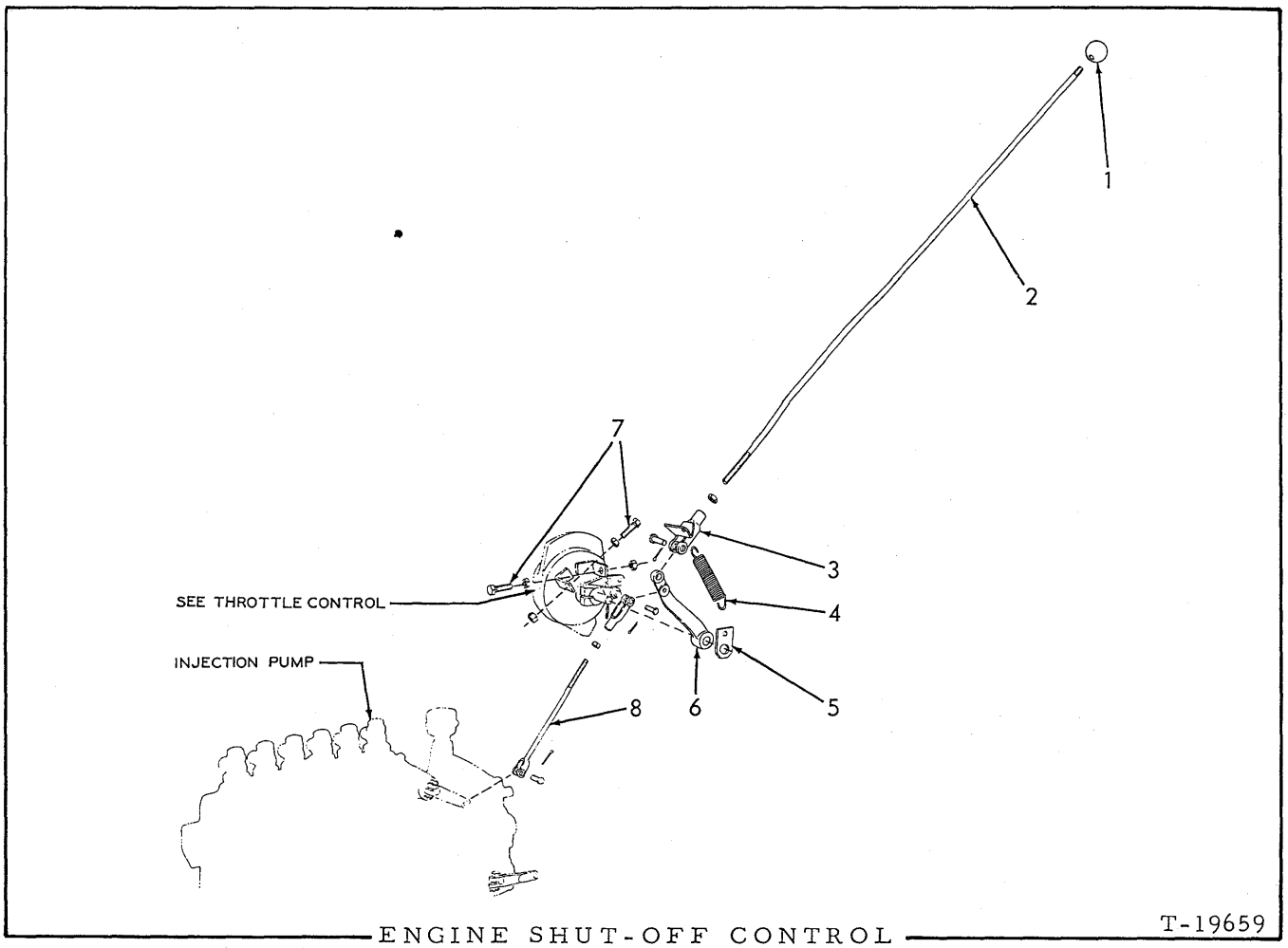



ENGINE SHUT-OFF CONTROL (First type. Models HD21A, F) T-17501

# ENGINE SHUT-OFF CONTROL

USAGE: Model HD21A,F tractors prior to serial No. 11001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 091855 | 1 | KNOB, control |
| 2 | 081593 | 2 | ROD, upper and intermediate |
| | 628736 | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | 2 | PIN, yoke, 3/8" diam. |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 3 | 080197 | 1 | CLAMP, stop |
| 4 | 012992 | 1 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 5 | 081624 | 1 | LEVER, upper |
| 6 | 081132 | 2 | SPACER, upper lever (5/16" thick) |
| 7 | 081271 | 1 | SPACER, upper lever (2-7/8" long) |
| 8 | ------ | - | BELLCRANK (See THROTTLE CONTROL) |
| 9 | ------ | - | TUBE (See STEERING LEVERS AND LINKAGE) |
| 10 | 081619 | 1 | LEVER, lower right |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 11 | 041981 | 1 | CAPSCREW, 5/16"NF x 1-1/2" |
| | 904205 | 1 | LOCKWASHER, 5/16" |
| | 913636 | 1 | NUT, 5/16"NF |
| 12 | 072438 | 1 | SPRING, lever retracting |
| 13 | 081620 | 1 | PIN, intermediate rod yoke |
| | 900942 | 1 | PIN, cotter, 3/32" x 5/8" |
| 14 | 081629 | 1 | SHAFT, lever pivot |
| 15 | 055416 | 1 | LEVER, lower left |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 16 | 037450 | 1 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 1 | LOCKWASHER, 5/16" |
| 17 | 078967 | 1 | YOKE, lower rod |
| 18 | 082875 | 1 | PIN, lower rod yoke |
| | 900942 | 1 | PIN, cotter, 3/32" x 5/8" |
| 19 | 081672 | 2 | SPACER, lower rod yoke |
| 20 | 035910 | 2 | SPRING, lower rod |
| 21 | 044973 | 1 | WASHER, bearing, lower rod spring |
| | 916202 | 1 | PIN, roll, 1/8" x 7/8" |
| 22 | 078686 | 1 | ROD, lower |
| | 911040 | 1 | NUT, 1/4"NF |
| | 628737 | 1 | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | 1 | PIN, yoke, 1/4" diam. |
| | 900970 | 1 | PIN, cotter, 1/16" x 1/2" |

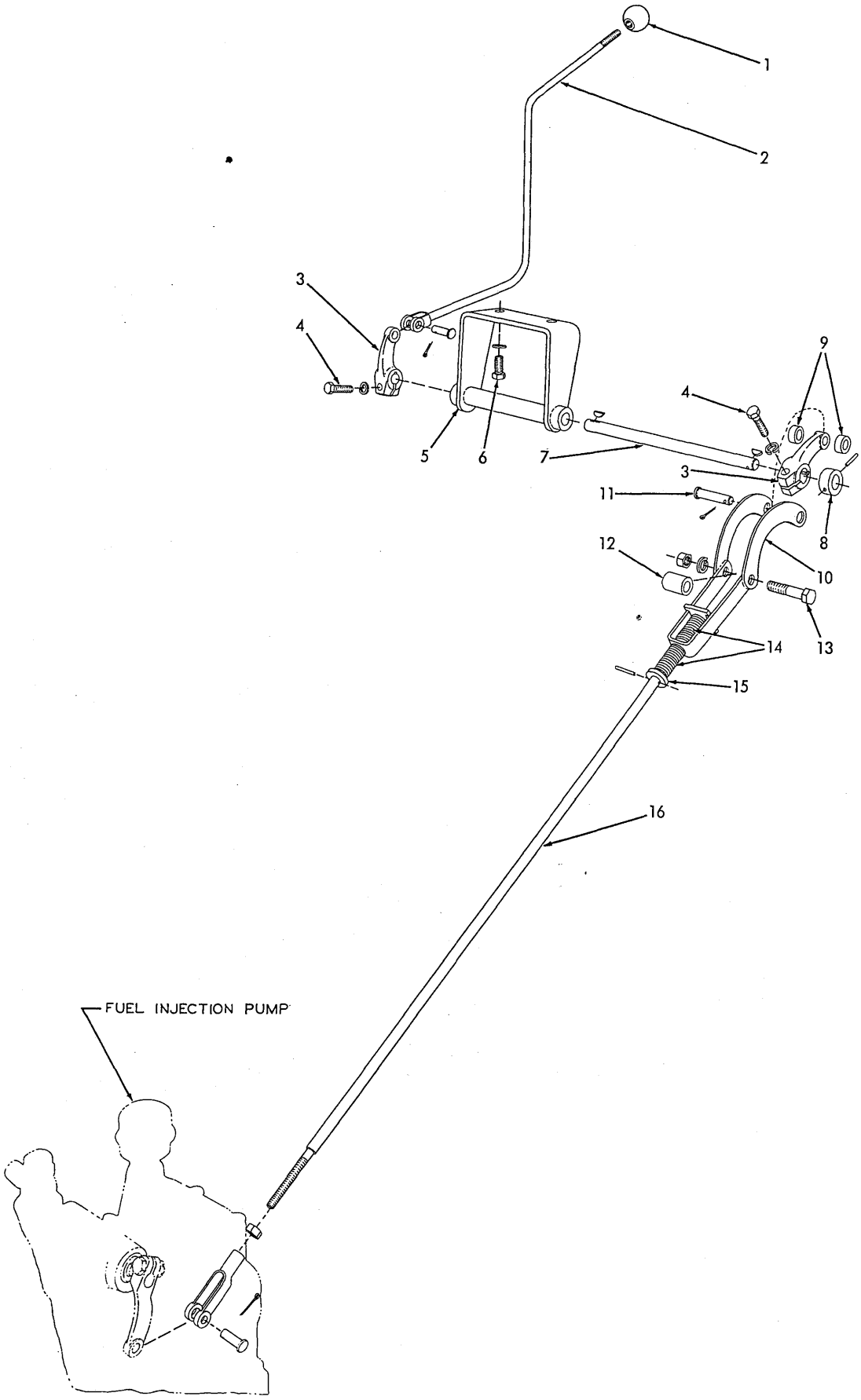



ENGINE SHUT-OFF CONTROL T-19659

USAGE: Models HD21A,F tractors serial No. 11001 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 091855 | 1 | KNOB, control |
| 2 | 096332 | 1 | ROD, upper |
| | 911048 | 1 | NUT, jam, 3/8"NF |
| 3 | 096339 | 1 | YOKE, upper |
| | 078810 | 1 | PIN, yoke, 3/8" diam. |
| | 900942 | 1 | PIN, cotter, 3/32" x 5/8" |
| 4 | 088428 | 1 | SPRING, retracting |
| 5 | 096398 | 1 | CLIP, spring attaching |
| | 916014 | 1 | PIN, roll, 3/32" x 3/4" |
| 6 | 096342 | 1 | LEVER, shut-off rod |
| 7 | 012992 | 2 | CAPSCREW, lever stop (3/8"NF x 1-1/4") |
| | 911048 | 2 | NUT, jam, 3/8"NF |
| | 911041 | 2 | NUT, 3/8"NF |
| 8 | 096241 | 1 | ROD, lower |
| | 910267 | 1 | NUT, jam, 1/4"NF |
| | 628737 | 1 | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | 2 | PIN, yoke, 1/4" diam. |
| | 900970 | 2 | PIN, cotter, 1/16" x 1/2" |

MEMO



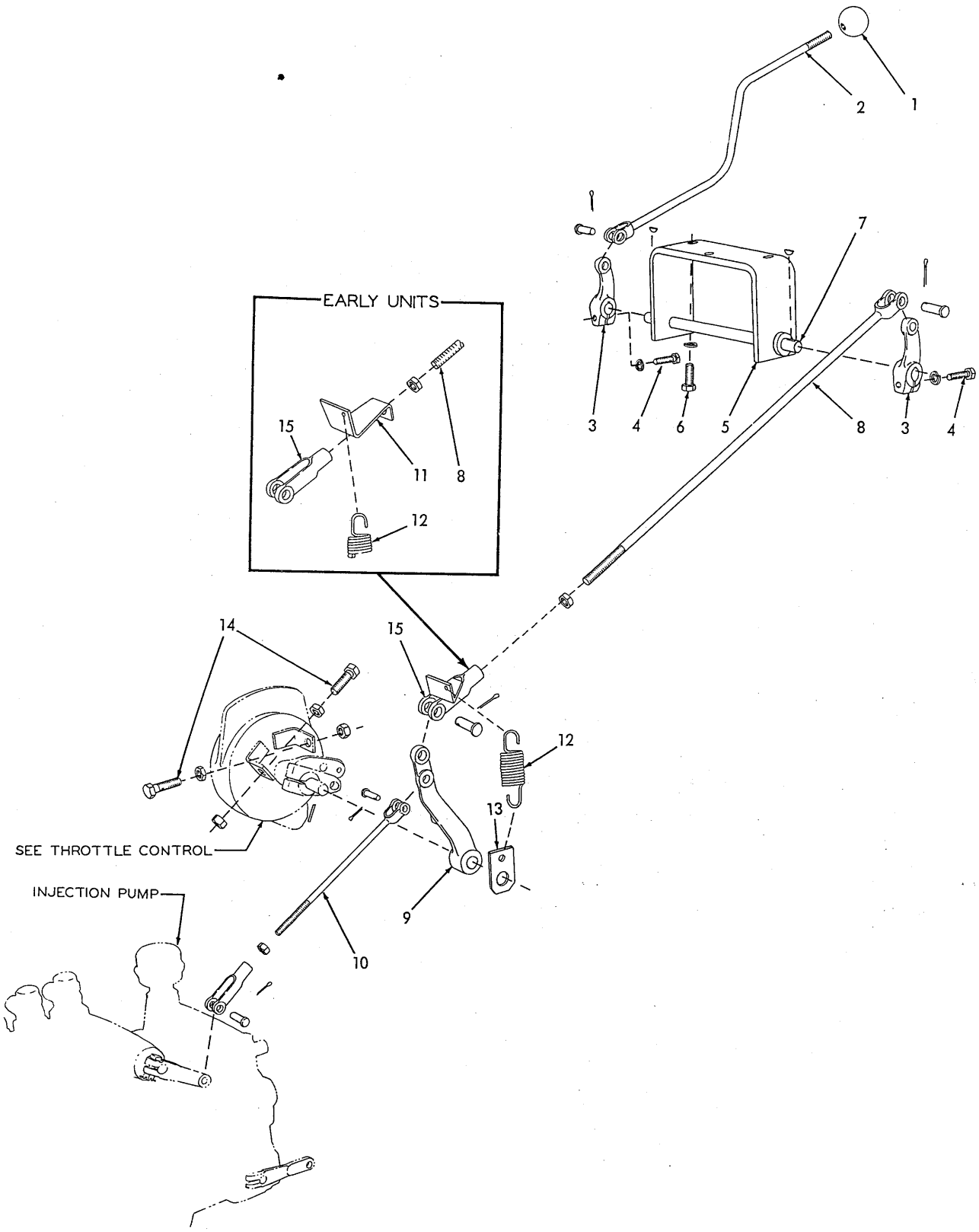

T-18149

ENGINE SHUT-OFF CONTROL (First type. Model HD21G)

# ENGINE SHUT-OFF CONTROL

USAGE: Model HD21G tractors prior to serial No. 11001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 091855 | 1 | KNOB, control |
| 2 | 085029 | 1 | ROD, upper (straight)(Used prior to tractor #9001) |
| | 093038 | 1 | ROD, upper (offset)(Effective with tractor #9001) |
| | 078810 | 1 | PIN, yoke, 3/8" diam. |
| | 900942 | 1 | PIN, cotter, 3/32" x 5/8" |
| 3 | 055416 | 2 | LEVER, cross shaft |
| | 905121 | 2 | KEY, #5 woodruff, 1/8" x 5/8" |
| 4 | 037450 | 2 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 2 | LOCKWASHER, 5/16" |
| 5 | 085030 | 1 | BRACKET, supporting, cross shaft |
| 6 | 036032 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 7 | 085032 | 1 | SHAFT, cross |
| 8 | 085033 | 1 | BLOCK, lever retaining |
| | 916202 | 1 | PIN, roll, 1/8" x 7/8" |
| 9 | 050257 | 2 | WASHER, yoke spacing |
| 10 | 085035 | 1 | YOKE, lower rod |
| 11 | 085038 | 1 | PIN, yoke |
| | 900942 | 1 | PIN, cotter, 3/32" x 1" |
| 12 | 085452 | 1 | BLOCK, spacing, lower rod yoke |
| 13 | 035336 | 1 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 14 | 035910 | 2 | SPRING, lower rod |
| 15 | 044973 | 1 | WASHER, bearing, lower rod spring |
| | 916202 | 1 | PIN, roll, 1/8" x 7/8" |
| 16 | 085037 | 1 | ROD, lower |
| | 911040 | 1 | NUT, 1/4"NF |
| | 628737 | 1 | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | 1 | PIN, yoke, 1/4" diam. |
| | 900970 | 1 | PIN, cotter, 1/16" x 1/2" |

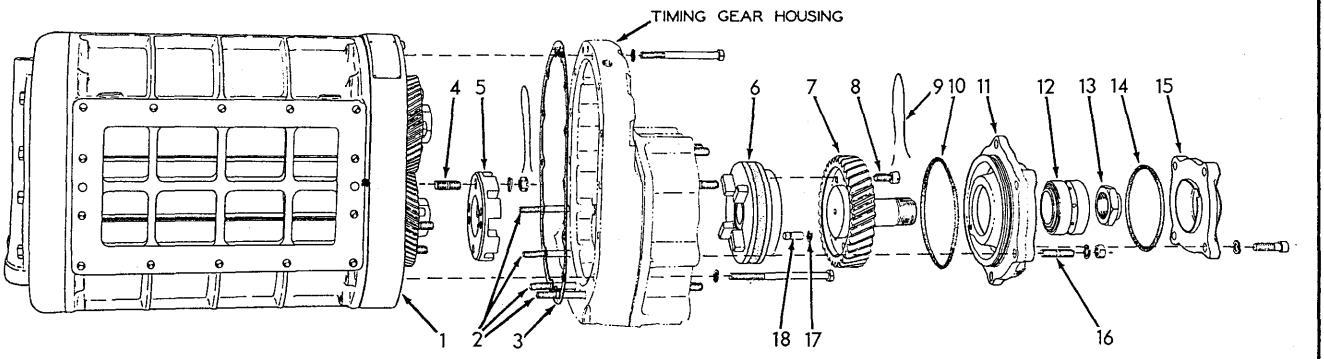



ENGINE SHUT-OFF CONTROL (Second type. Model HD21G) T-19660

# ENGINE SHUT-OFF CONTROL

USAGE: Model HD21G tractors serial No. 11001 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 091855 | 1 | KNOB, control |
| 2 | 093038 | 1 | ROD, upper (Used prior to tractor #11725, including #11798) |
| | 622568 | 1 | ROD, upper (Effective with tractor #11725, excluding #11798) |
| | 078810 | 1 | PIN, yoke, 3/8" diam. |
| | 900942 | 1 | PIN, cotter, 3/32" x 5/8" |
| 3 | 055416 | 2 | LEVER, cross shaft |
| | 905121 | 2 | KEY, #5 woodruff, 1/8" x 5/8" |
| 4 | 037450 | 2 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 2 | LOCKWASHER, 3/8" |
| 5 | 097112 | 1 | BRACKET, supporting, cross shaft |
| 6 | 036034 | 3 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 3 | LOCKWASHER, 3/8" |
| 7 | 097110 | 1 | SHAFT, cross |
| 8 | 097120 | 1 | ROD, intermediate |
| | 911048 | 1 | NUT, jam, 3/8"NF |
| | 078810 | 1 | PIN, yoke, 3/8" diam. |
| | 900942 | 1 | PIN, cotter, 3/32" x 5/8" |
| 9 | 096342 | 1 | LEVER, shut-off rod |
| 10 | 096241 | 1 | ROD, lower |
| | 910267 | 1 | NUT, jam, 1/4"NF |
| | 628737 | 1 | YOKE, rod end, adjustable, 1/4"NF |
| | 628738 | 2 | PIN, yoke, 1/4" diam. |
| | 900970 | 2 | PIN, cotter, 1/16" x 1/2" |
| 11 | 097115 | 1 | ANGLE, spring attaching (Used prior to tractor #11575) |
| 12 | 088428 | 1 | SPRING, retracting |
| 13 | 096398 | 1 | CLIP, spring attaching |
| | 916014 | 1 | PIN, roll, 3/32" x 3/4" |
| 14 | 012992 | 2 | CAPSCREW, lever stop (3/8"NF x 1-1/4") |
| | 911048 | 2 | NUT, jam, 3/8"NF |
| | 911041 | 2 | NUT, 3/8"NF |
| 15 | 628736 | 1 | YOKE, intermediate rod (Used prior to tractor #11575) |
| | 096339 | 1 | YOKE, intermediate rod (Effective with tractor #11575) |
| | 078810 | 1 | PIN, yoke, 3/8" diam. |
| | 900942 | 1 | PIN, cotter, 3/32" x 5/8" |




SUPERCHARGER AND DRIVE T-13079

USAGE: Tractors prior to serial No. 9001 (HDS-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4366183 | 1 | SUPERCHARGER ASSEMBLY (See page 183 for parts)(Used prior to engine #81317. Order SUPERCHARGER ASSEMBLY 4373029) |
| 1 | 4373029 | 1 | SUPERCHARGER ASSEMBLY (See page 183 for parts)(Effective with engine #81317) |
| | 917016 | 2 | CAPSCREW, 5/16"NC x 3-1/2" |
| | 917017 | 4 | CAPSCREW, 5/16"NC x 4-1/2" (Also attach timing gear cover) |
| | 4364294 | 4 | CAPSCREW (5/16"NC x 3-1/2", drilled-hd.) — Used prior to engine #81317 |
| 2 | 4364930 | 1 | WIRE, locking (13-1/4" long) — Used prior to engine #81317 |
| | 913599 | 3 | CAPSCREW, 5/16"NC x 2-1/2" — Effective with engine #81317 |
| | 918398 | 1 | CAPSCREW, 5/16"NC x 6-7/8" — Effective with engine #81317 |
| | 904205 | 10 | LOCKWASHER, 5/16" |
| 3 | 4362192 | 1 | GASKET, supercharger mounting (Used prior to engine #81317) |
| 3 | 4041153 | 1 | □ GASKET, supercharger mounting (Effective with engine #81317) |
| 4 | 4362189 | 4 | STUD, supercharger coupling (3/8"NF x 1", drilled) |
| | 910863 | 4 | NUT, slotted, 3/8"NF |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 4503600 | 2 | WIRE, locking, #18 x 10" |
| 5 | 4365776 | 1 | COUPLING, supercharger drive |
| 6 | 4366405 | 1 | COUPLING, supercharger drive |
| 7 | 4375545 | 1 | SHAFT AND GEAR, supercharger drive |
| 8 | 4371422 | 6 | CAPSCREW, supercharger drive coupling |
| 9 | 4353538 | 3 | WIRE, locking, supercharger drive housing capscrews |
| 10 | 4253819 | 1 | □ O-RING, supercharger drive housing |
| 11 | 4373575 | 1 | HOUSING, supercharger drive (If for engines prior to #82383 also order item 15) |
| 12 | 4253821 | 1 | BEARING, roller, supercharger drive |

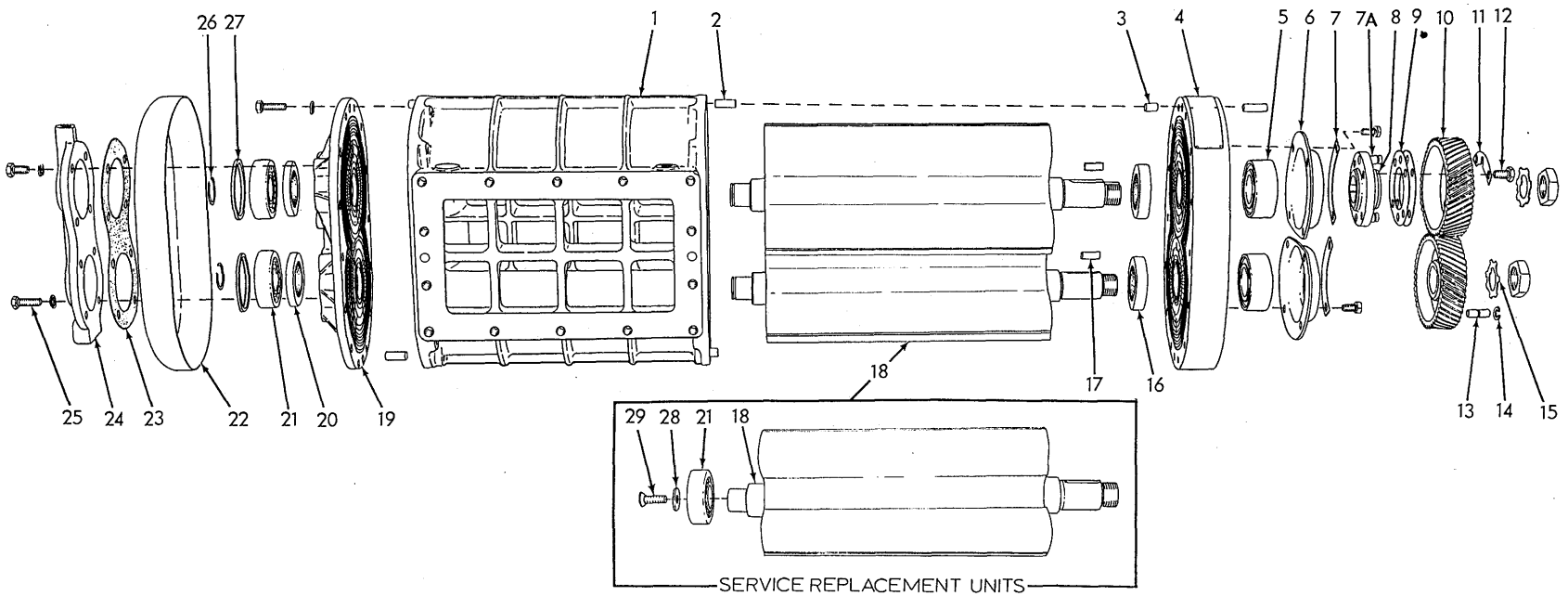
□ Also see PACKAGED PARTS

(Continued)

## SUPERCHARGER AND DRIVE (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 13 | 4371598 | 1 | NUT, supercharger drive shaft |
| 14 | 923817 | 1 | □ O-RING, supercharger drive housing cover |
| 15 | 4373569 | 1 | CAP, supercharger drive housing (If for engines prior to #82383 also order item 11) |
| | 917733 | 4 | CAPSCREW, socket-hd., 3/8"NC x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 16 | 4371116 | 6 | STUD, supercharger drive housing |
| | 910123 | 6 | NUT, 3/8"NF |
| | 904206 | 6 | LOCKWASHER, 3/8" |
| 17 | 4005987 | 2 | RING, snap, supercharger drive coupling dowel |
| 18 | 4365785 | 2 | DOWEL, supercharger drive coupling |

□ Also see PACKAGED PARTS




T-13088

SUPERCHARGER PARTS

USAGE: See page 180

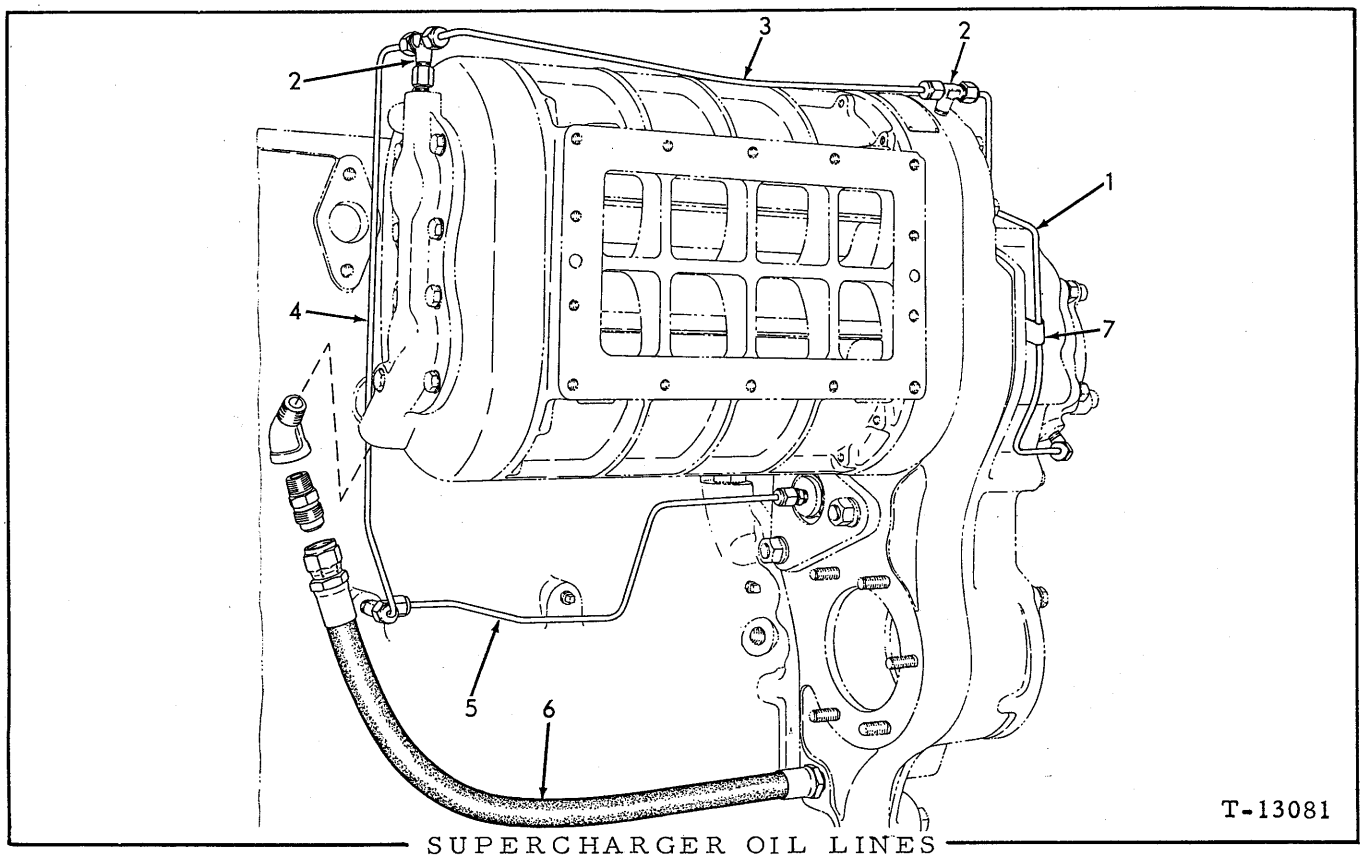
* Original equipment units
** Service replacement units (Effective May 1964)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 1 | 4041109 | 1 | 1 | HOUSING, rotor | |
| 2 | 4371690 | 4 | 4 | PIN, dowel, rotor housing | |
| 3 | 4371691 | 2 | 2 | SPACER, dowel pin | |
| 4 | 4371569 | 1 | - | PLATE ASSEMBLY, rotor housing, front (Includes rubber facing) (Used prior to engine #81317) | |
| 4 | 4041110 | 1 | 1 | PLATE ASSEMBLY, rotor housing, front (Includes rubber facing) (Effective with engine #81317) | |
| | 917539 | 2 | 2 | PIN, dowel, 3/8" x 1" | |
| 5 | 4051212 | 2 | 2 | BEARING, ball, front end | |
| 6 | 4371576 | 2 | 2 | RING, retaining, rotor front bearing | |
| | 905661 | 8 | 8 | CAPSCREW, 5/16"NC x 5/8" | |
| 7 | 4371694 | 4 | 4 | LOCK, retaining ring capscrews | |
| 7A | 4041349 | 2 | 2 | PIN, dowel, driven gear (.3747 to .3748 diam.) | Use as required for proper fit |
| 7A | 4041350 | 2 | 2 | PIN, dowel, driven gear (.3749 to .3750 diam.) | |
| 7A | 4041351 | 2 | 2 | PIN, dowel, driven gear (.3751 to .3752 diam.) | |
| 8 | ------ | 1 | 1 | HUB, drive gear (Not serviced. Order item 10) | |
| 9 | 4371570 | 1 | 1 | SHIM, gear adjustment | |
| 10 | 4371695 | 1 | 1 | GEAR SET (Consists of 2 GEARS, and items 7A, 8, 9, 11 and 12) | |
| 11 | 4371571 | 2 | 2 | LOCK, gear capscrew | |
| 12 | 4371820 | 4 | 4 | CAPSCREW, gear to hub | |
| 13 | 4371696 | 2 | 2 | PIN, dowel, drive gear | |
| 14 | 4371697 | 2 | 2 | RING, snap, drive gear dowel pin | |
| 15 | 4371574 | 2 | 2 | LOCKWASHER, rotor gear nut | |
| 16 | 4253982 | 2 | - | SEAL, oil, rotor shaft, front (2-1/8" O. D. )(Used prior to engine #81317) | |
| 16 | 4371692 | 2 | 2 | SEAL, oil, rotor shaft, front (2-1/4" O. D. )(Effective with engine #81317) | |
| 17 | 4371572 | 2 | 2 | KEY, rotor gear | |
| 18 | ------ | 2 | - | ROTOR (Order 1 each ROTOR 4056059, WASHER 4056057, CAPSCREW 4056058 and BEARING 4255311) | |
| 18 | 4056059 | - | 2 | ROTOR | |
| | 910378 | 2 | 2 | NUT, jam, 1"NF | |

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## SUPERCHARGER PARTS (Continued)

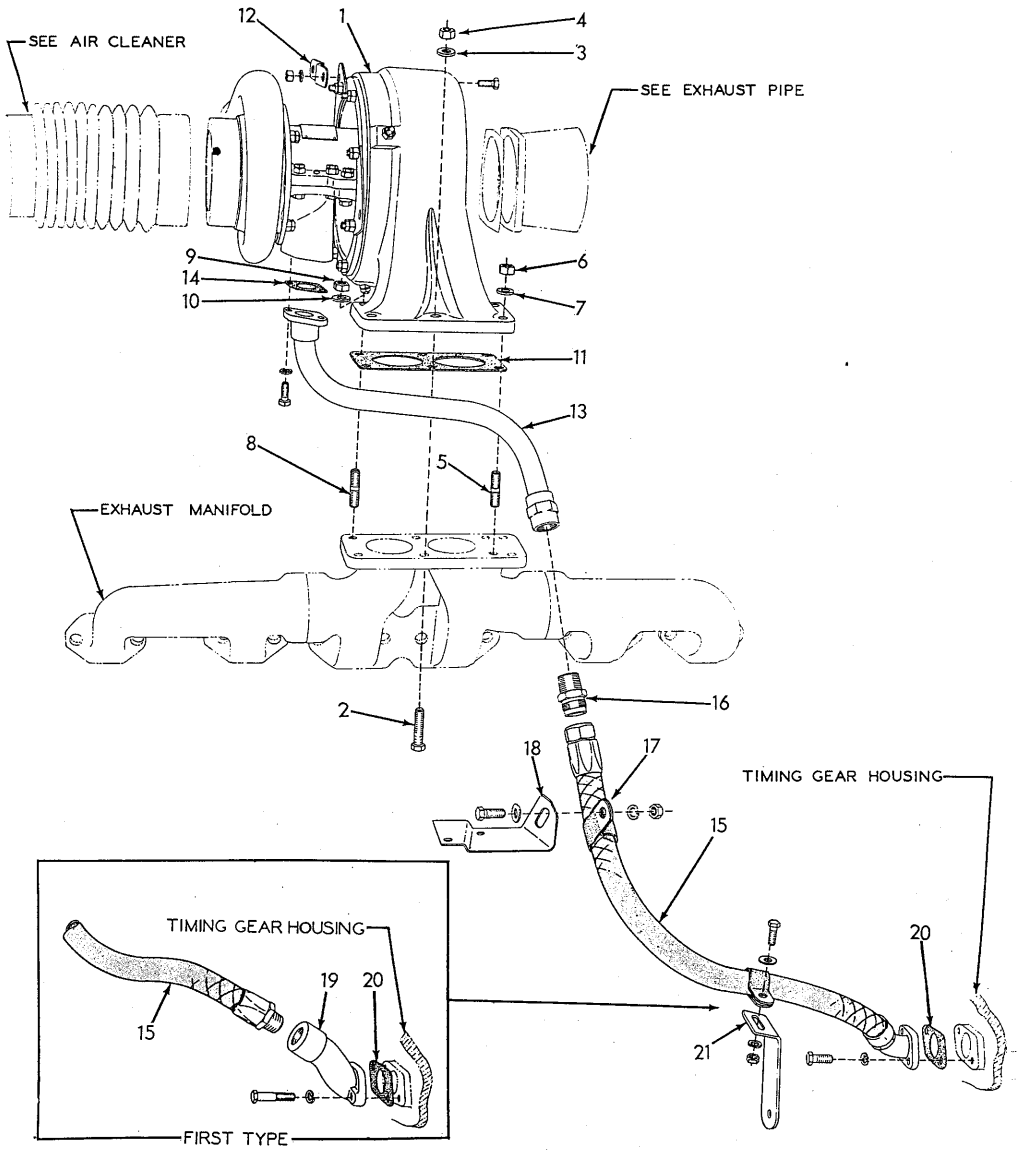
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 19 | 4041172 | 1 | 1 | PLATE ASSEMBLY, rotor housing, rear (Includes rubber facing) |
| | 903772 | 14 | 14 | CAPSCREW, 5/16"NC x 1" |
| | 904205 | 14 | 14 | LOCKWASHER, 5/16" |
| 20 | 4371692 | 2 | 2 | SEAL, oil, rotor shaft, rear |
| 21 | 4250844 | 2 | - | BEARING, roller, rear end |
| | 4255311 | - | 2 | BEARING, roller, rear end |
| 22 | 4371698 | 1 | 1 | COVER, rear end |
| 23 | 4371722 | 1 | 1 | GASKET, rear bearing cover |
| 24 | 4041547 | 1 | 1 | COVER, rotor rear bearings |
| | 905661 | 7 | 7 | CAPSCREW, 5/16"NC x 5/8" |
| 25 | 4371724 | 1 | - | CAPSCREW, 5/16"NC x 1-1/4" (Used prior to engine #67336) |
| | 905661 | 1 | 1 | CAPSCREW, 5/16"NC x 5/8" (Effective with engine #67336) |
| | 904205 | 8 | 8 | LOCKWASHER, 5/16" |
| 26 | 4371564 | 2 | - | RING, snap, rotor rear bearing |
| 27 | 4371699 | 2 | - | SPACER, rotor rear bearing |
| 28 | 4056057 | - | 2 | WASHER, rotor rear bearing |
| 29 | 4056058 | - | 2 | CAPSCREW, rotor rear bearing |




SUPERCHARGER OIL LINES

USAGE: Tractors prior to serial No. 9001 (HDS-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4372274 | 1 | LINE, oil, supercharger drive |
| | 915489 | 2 | NUT, Sealastic, 3/16" tube |
| | 915487 | 2 | RING, Sealastic, 3/16" tube (Includes ferrule) |
| | 917892 | 1 | ELBOW, Sealastic, 90°, 3/16" tube, 1/8"NPT |
| 2 | 4372232 | 2 | TEE, supercharger oil line (restricted) |
| | 917032 | 1 | ADAPTER, extension, 1/8"NPT male and female |
| 3 | 4372200 | 1 | LINE, oil, top of supercharger |
| | 915489 | 2 | NUT, Sealastic, 3/16" tube |
| | 915487 | 2 | RING, Sealastic, 3/16" tube (Includes ferrule) |
| 4 | 4372039 | 1 | LINE, oil, crankcase to rear of supercharger |
| | 915489 | 2 | NUT, Sealastic, 3/16" tube |
| | 915487 | 2 | RING, Sealastic, 3/16" tube (Includes ferrule) |
| | 917891 | 1 | TEE, Sealastic, service, 3/16" tube, 1/8"NPT male |
| 5 | 4372218 | 1 | LINE, oil, supercharger intermediate gear |
| | 915489 | 2 | NUT, Sealastic, 3/16" tube |
| | 915487 | 2 | RING, Sealastic, 3/16" tube (Includes ferrule) |
| | 917890 | 1 | CONNECTOR, Sealastic, 3/16" tube, 1/8"NPT |
| 6 | 4368862 | 1 | LINE, oil, supercharger drain |
| | 910947 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| | 910149 | 1 | ELBOW, street, 45°, 3/8"NPT (Used prior to engine #67336) |
| 7 | 4304889 | 1 | CLIP, supercharger drive oil line |




TURBOCHARGER

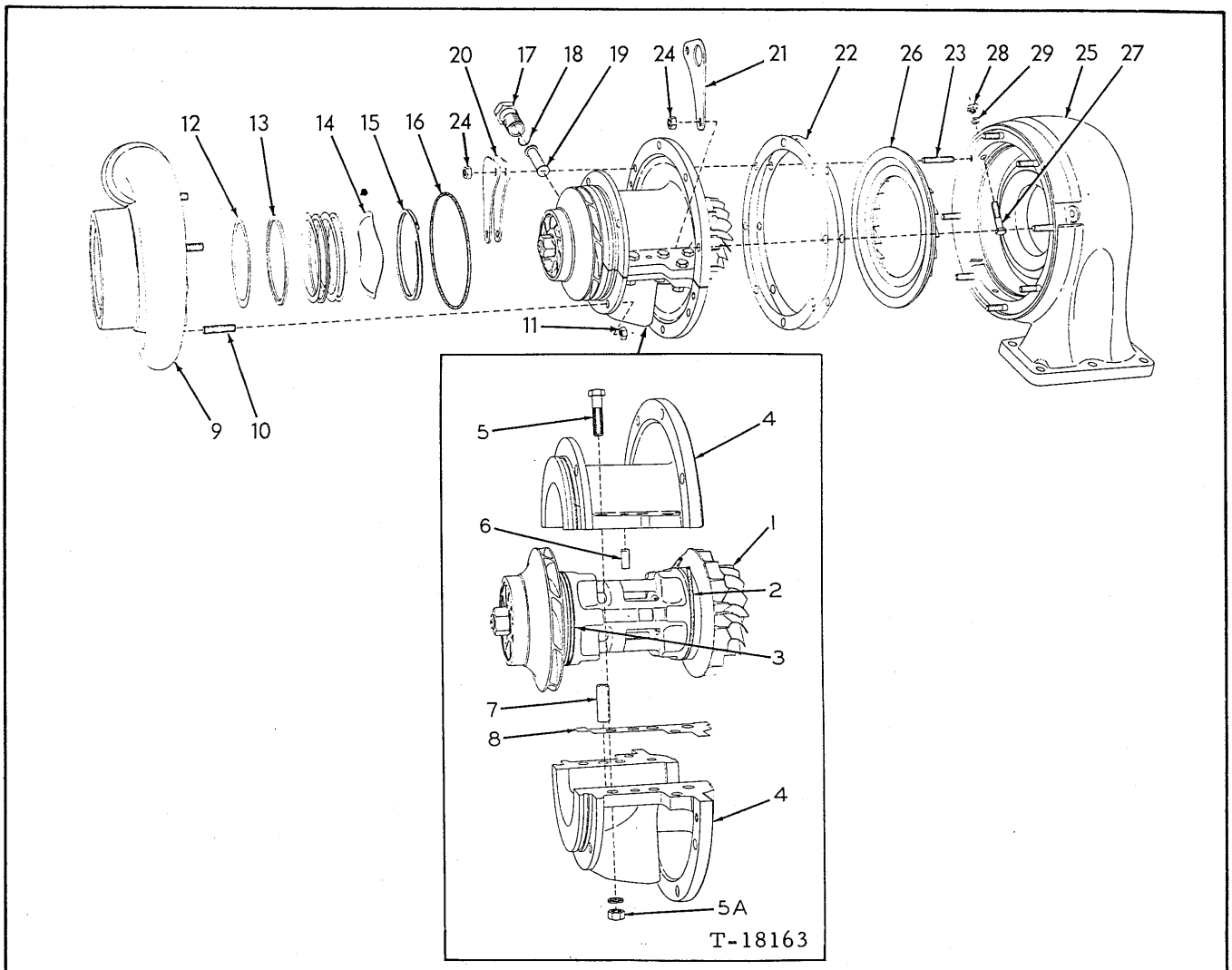
USAGE: Tractors serial No. 9001 thru No. 11000 (HDT-844 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4375303 | 1 | TURBOCHARGER ASSEMBLY (See page 188 for parts)(Original equipment. Order TURBOCHARGER ASSEMBLY 4385231) |
| | 4385231 | 1 | TURBOCHARGER ASSEMBLY (See page 190 for parts)(Service replacement) |
| 2 | 4376920 | 3 | CAPSCREW, 7/16"NC x 2" |
| 3 | 4375329 | 3 | WASHER, plain (1/8" thick) |
| 4 | 4254453 | 3 | NUT, 7/16"NC |
| 5 | 4375277 | 2 | STUD, turbocharger attachment (7/16"NC x 1-7/8") |
| 6 | 4254453 | 2 | NUT, 7/16"NC |
| 7 | 4375329 | 2 | WASHER, plain (1/8" thick) |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 8 | 4641233 | 1 | STUD, turbocharger attachment (7/16"NC x 7/16"NF x 2-7/16") (Used prior to engine #21-2152) |
| | 911042 | 1 | NUT, 7/16"NF |
| | 4375329 | 1 | WASHER, plain (1/8" thick) |
| | 4375277 | 1 | STUD, turbocharger attachment (7/16"NC x 1-7/8") (Effective with engine #21-2152) |
| 9 | 4254453 | 1 | NUT, 7/16"NC |
| 10 | 4375329 | 1 | WASHER, plain (1/8" thick) |
| 11 | 4374848 | 1 | □ GASKET, turbocharger to exhaust manifold |
| 12 | 4375527 | 1 | BRACE, turbocharger |
| | 903775 | 1 | CAPSCREW, 3/8"NC x 7/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 910324 | 1 | NUT, 3/8"NC |
| 13 | 4375313 | 1 | TUBE, turbocharger oil drain |
| | 910211 | 2 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 14 | 4641412 | 1 | □ GASKET, turbocharger oil drain tube |
| 15 | ------ | 1 | LINE, flexible, turbocharger oil drain (Used prior to engine #21-2351. Order 1 each HOSE ASSEMBLY 4376337, BRACKET 4376380, CONNECTOR 919246; 2 each CLIP 4254646, WASHER 900817, CAPSCREW 903630, CAPSCREW 903775, LOCKWASHER 904206 and NUT 910324) |
| | 4376337 | 1 | HOSE ASSEMBLY, turbocharger oil drain (See page 6 for parts) (Effective with engine #21-2351) |
| | 903630 | 2 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 16 | 4253525 | 1 | ADAPTER, oil drain line (Used prior to engine #21-2351) |
| | 919246 | 1 | CONNECTOR, 37° flare, 1" tube, 3/4"NPT male (Effective with engine #21-2351) |
| 17 | 4254589 | 1 | CLIP, supporting, oil drain hose (Used prior to engine #21-2351) |
| | 918683 | 1 | CAPSCREW, 1/2"NC x 1-1/8" |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 910325 | 1 | NUT, 1/2"NC |
| | 4254646 | 2 | CLIP, hose supporting (Effective with engine #21-2351) |
| | 903775 | 2 | CAPSCREW, 3/8"NC x 7/8" |
| | 900817 | 2 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 910324 | 2 | NUT, 3/8"NC |
| 18 | 4376092 | 1 | BRACKET, hose supporting clip |
| 19 | 4375933 | 1 | ELBOW, turbocharger oil drain line (Used prior to engine #21-2351) |
| | 910245 | 2 | CAPSCREW, 3/8"NC x 1-3/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 20 | 4371027 | 1 | □ GASKET, oil drain line flange |
| 21 | 4376380 | 1 | BRACKET, hose supporting clip, lower(Effective with engine #21-2351) |

□ Also see PACKAGED PARTS




TURBOCHARGER PARTS

T-18089

* TURBOCHARGER ASSEMBLY 4375303 (See page 186)
** TURBOCHARGER ASSEMBLY 4378684 (See page 192)

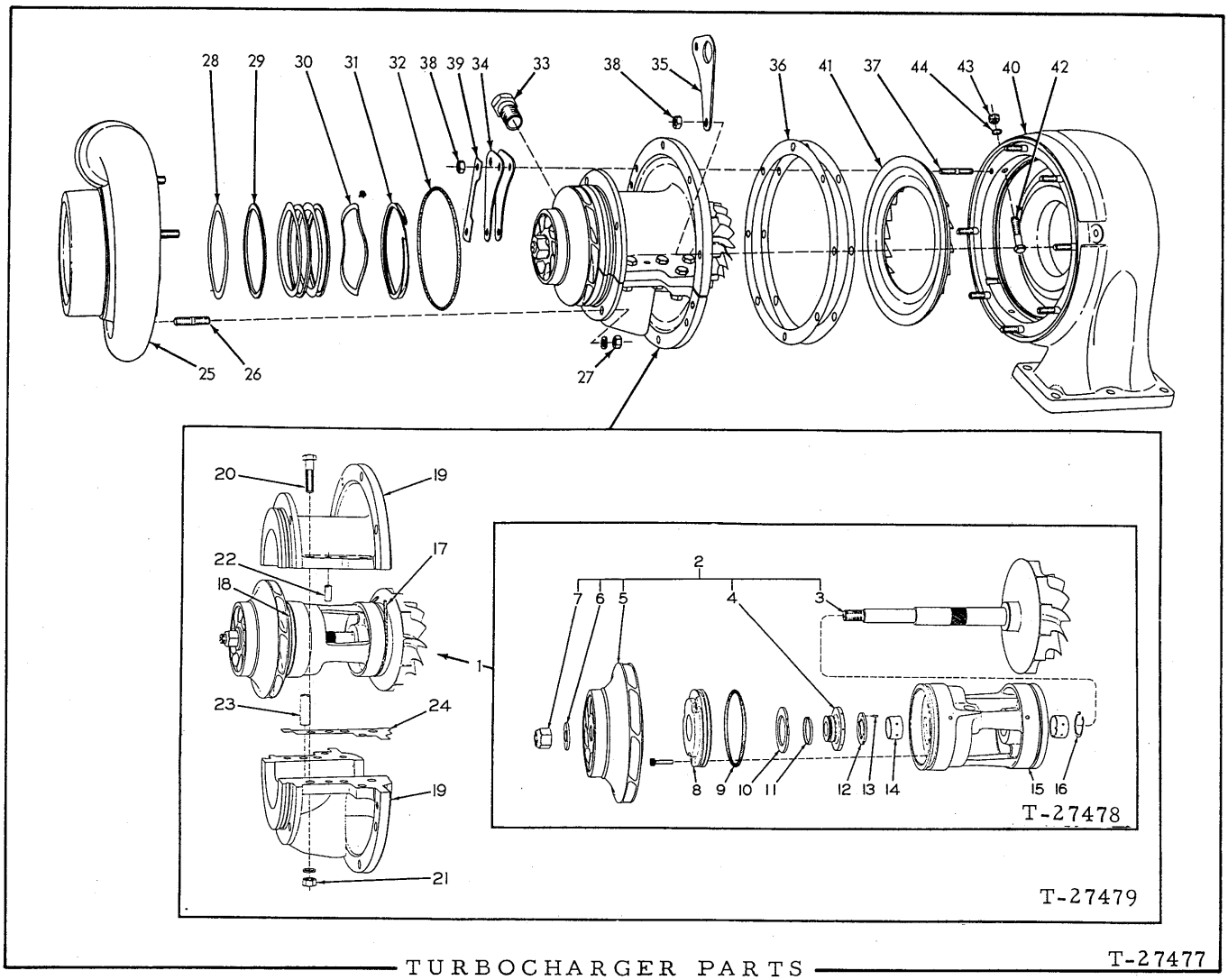
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | 1 | CARTRIDGE ASSEMBLY, turbine and impeller (Order CARTRIDGE ASSEMBLY 4053328) |
| | 4052515 | 2 | 2 | *BEARING, only, flanged (4 required on early units) |
| | 4052534 | 2 | 2 | *BEARING, only, plain (Not used on early units) |
| 2 | 4049005 | 1 | 1 | PACKING, cartridge sealing, turbine side |
| 3 | 4049004 | 1 | 1 | O-RING, cartridge sealing, blower side |
| 4 | 4051985 | 1 | 1 | HOUSING ASSEMBLY, main (Includes items 5 thru 7) |
| 5 | 4051986 | 8 | 8 | BOLT, main housing |
| | 904206 | 8 | 8 | LOCKWASHER, 3/8" |
| 5A | 4051987 | 8 | 8 | NUT (3/8"NF) |

* Bearings are not replaceable on later units which do not have split housing design.

(Continued)

## TURBOCHARGER PARTS (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 6 | 4049003 | 2 | 2 | PIN, dowel, main housing (5/16" x 3/4") |
| 7 | 4049020 | 1 | 1 | TUBE, oil |
| 8 | 4049025 | 2 | 2 | GASKET, main housing (aluminum) |
| 9 | 4049019 | 1 | 1 | HOUSING ASSEMBLY, compressor (Includes item 10) |
| 10 | 4049017 | 4 | 4 | STUD, compressor housing |
| 11 | 4051987 | 4 | 4 | NUT (3/8"NF) |
| 12 | 4049011 | 3 | 3 | GLAND, impeller seal |
| 13 | 4049001 | 3 | 3 | SPACER, impeller seal gland |
| 14 | 4049002 | 1 | 1 | WASHER, wave, impeller seal |
| 15 | 4049018 | 1 | 1 | RING, snap, impeller seal |
| 16 | 4049015 | 1 | 1 | O-RING, compressor housing |
| 17 | 4049024 | 1 | 1 | EXTENSION, oil inlet |
| 18 | ------ | 1 | 1 | WIRE, snap, oil strainer retaining (Discontinued. Not available) |
| 19 | ------ | 1 | 1 | STRAINER, lubricating oil (Discontinued. Not available) |
| 20 | 4049032 | 2 | 2 | BRACKET, supporting |
| 21 | 4049029 | 1 | 1 | BRACKET, lifting |
| 22 | 4049028 | 1 | 1 | SHIM, turbine housing (.040" thick. Use as required) |
| | 4049027 | 1 | 1 | SHIM, turbine housing (.010" thick. Use as required) |
| 23 | 4049030 | 8 | 8 | STUD, turbine housing |
| 24 | 4051987 | 8 | 8 | NUT (3/8"NF) |
| 25 | 4049013 | 1 | 1 | HOUSING ASSEMBLY, turbine (Includes item 23) |
| 26 | 4049021 | 1 | - | NOZZLE, turbine housing |
| | 4049022 | 1 | - | SHROUD, turbine housing nozzle (Not illustrated. Used between nozzle and housing on turbochargers prior to serial No. MA-00751 only) |
| | 4050586 | - | 1 | NOZZLE, turbine housing |
| 27 | 4049007 | 3 | 3 | BOLT, nozzle retaining |
| 28 | 4053380 | 3 | 3 | NUT (3/8"NF) |
| 29 | 4105451 | 3 | 3 | GASKET, nozzle retaining bolt |




T-27477

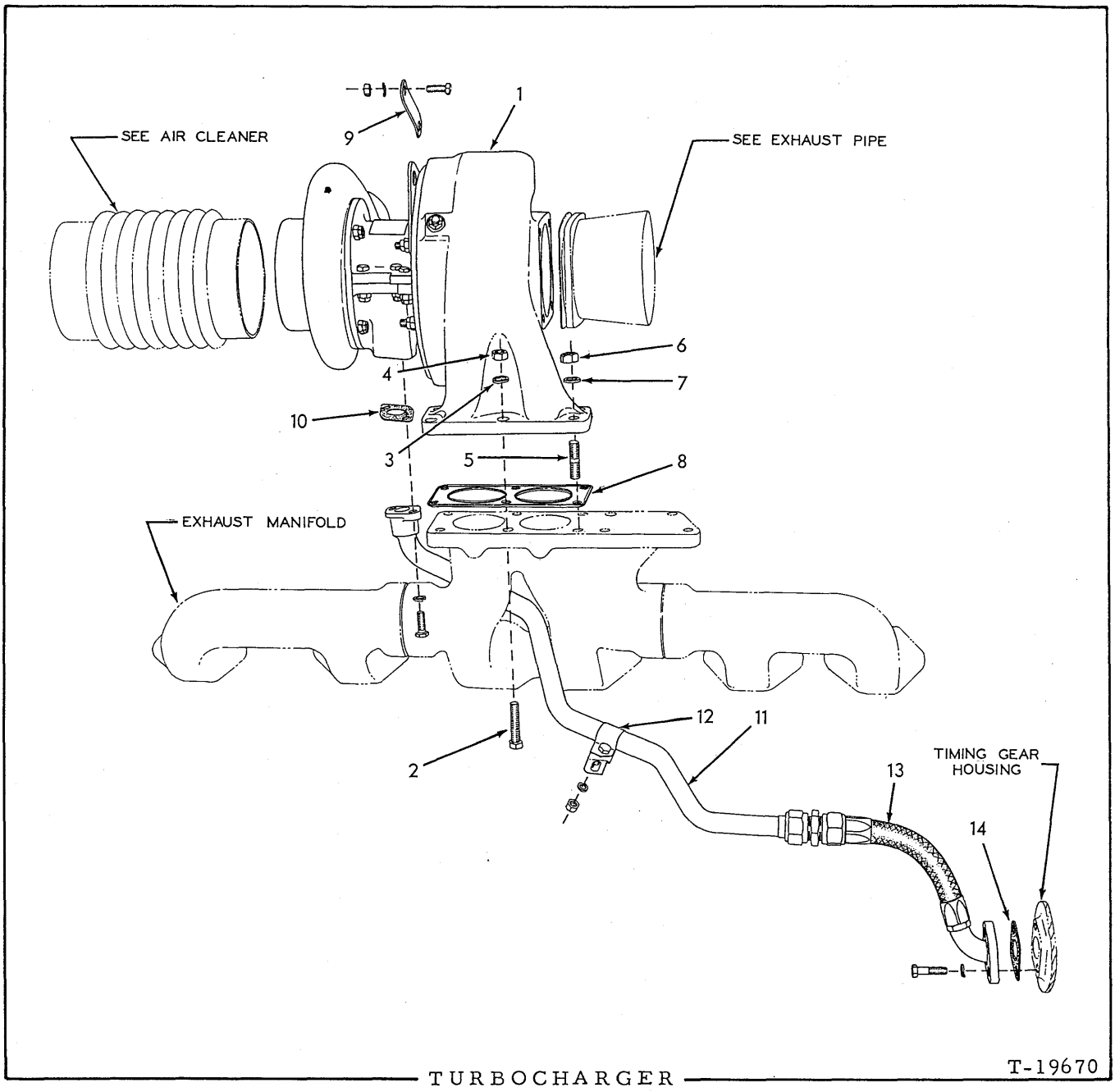
## TURBOCHARGER PARTS

* TURBOCHARGER ASSEMBLY 4385231 (See page 186)
** TURBOCHARGER ASSEMBLY 4385079 (See page 192)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4053328 | 1 | 1 | CARTRIDGE ASSEMBLY (Consists of items 2 thru 16) |
| 2 | 4053335 | 1 | 1 | ROTATING ASSEMBLY, turbine and impeller (Consists of items 3 thru 7) |
| 3 | ------ | 1 | 1 | TURBINE AND SHAFT (Order item 2) |
| 4 | 4053421 | 1 | 1 | RING, thrust |
| 5 | ------ | 1 | 1 | IMPELLER (Order item 2) |
| 6 | 4053593 | 1 | 1 | WASHER, impeller retaining |
| 7 | 4053592 | 1 | 1 | NUT, impeller retaining |
| 8 | 4053338 | 1 | 1 | PLATE, thrust |
| | 921149 | 3 | 3 | CAPSCREW, socket-hd., #10-24NC x 3/4" |
| 9 | 4053336 | 1 | 1 | O-RING, thrust plate |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 10 | 4053420 | 1 | 1 | WASHER, thrust plate |
| 11 | 4053337 | 1 | 1 | RING, turbine shaft sealing |
| 12 | 4053419 | 1 | 1 | WASHER, thrust |
| 13 | 4053422 | 2 | 2 | PIN, dowel, thrust washer |
| 14 | 4053334 | 2 | 2 | BEARING, turbine shaft |
| 15 | 4053333 | 1 | 1 | CARRIER ASSEMBLY (Includes item 13) |
| 16 | 4053339 | 1 | 1 | RING, snap, bearing retaining |
| 17 | 4049005 | 1 | 1 | PACKING, cartridge sealing, turbine side |
| 18 | 4049004 | 1 | 1 | O-RING, cartridge sealing, blower side |
| 19 | 4051985 | 1 | 1 | HOUSING ASSEMBLY, main (Includes items 20 thru 23) |
| 20 | 4051986 | 8 | 8 | BOLT |
| | 904206 | 8 | 8 | LOCKWASHER, 3/8" |
| 21 | 4051987 | 8 | 8 | NUT (3/8"NF) |
| 22 | 4049003 | 2 | 2 | PIN, dowel, main housing (5/16" x 3/4") |
| 23 | 4049020 | 1 | 1 | TUBE, oil |
| 24 | 4049025 | 2 | 2 | GASKET, main housing (aluminum) |
| 25 | 4049019 | 1 | 1 | HOUSING ASSEMBLY, compressor (Includes item 26) |
| 26 | 4049017 | 4 | 4 | STUD, compressor housing |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 27 | 4051987 | 4 | 4 | NUT, (3/8"NF) |
| 28 | 4049011 | 3 | 3 | GLAND, impeller seal |
| 29 | 4049001 | 3 | 3 | SPACER, impeller seal gland |
| 30 | 4049002 | 1 | 1 | WASHER, wave, impeller seal |
| 31 | 4049018 | 1 | 1 | RING, snap, impeller seal |
| 32 | 4049015 | 1 | 1 | O-RING, compressor housing |
| 33 | 4049024 | 1 | 1 | EXTENSION, oil inlet |
| 34 | 4049032 | 2 | 2 | BRACKET, supporting |
| 35 | 4049029 | 1 | 1 | BRACKET, lifting |
| 36 | 4049028 | 1 | 1 | SHIM, turbine housing (.040" thick) |
| | 4049027 | - | - | SHIM, turbine housing (.010" thick. Use as required) |
| 37 | 4049030 | 8 | 8 | STUD, turbine housing |
| 38 | 4051987 | 8 | 8 | NUT (3/8"NF) |
| 39 | 4052130 | 4 | 4 | PLATE, nut locking |
| 40 | 4049013 | 1 | 1 | HOUSING ASSEMBLY, turbine (Includes item 37) |
| 41 | 4049021 | 1 | - | NOZZLE, turbine housing |
| | 4050586 | - | 1 | NOZZLE, turbine housing |
| 42 | 4049007 | 3 | 3 | BOLT, nozzle retaining |
| 43 | 4053380 | 3 | 3 | NUT (3/8"NF) |
| 44 | 4105451 | 3 | 3 | GASKET, nozzle retaining bolt |




TURBOCHARGER

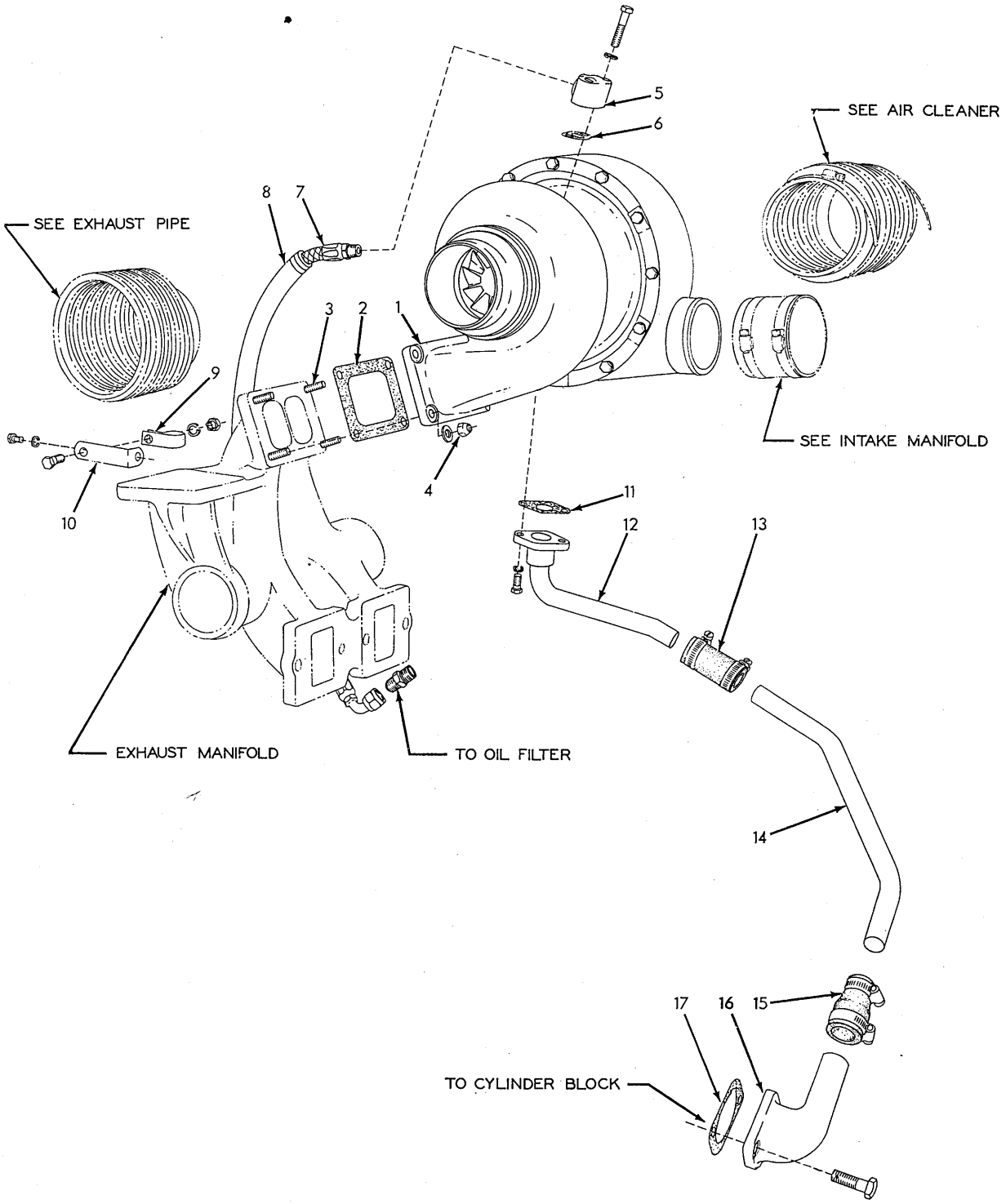
USAGE: Effective with tractor serial No. 11001 but later discontinued with engine serial No. 21-3952 (21000 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | 4378684 | 1 | TURBOCHARGER ASSEMBLY (See page 188 for parts)(Used prior to engine #21-3419) | Discontinued. Order TURBOCHARGER CHANGEOVER KIT 4387457 |
| | 4385079 | 1 | TURBOCHARGER ASSEMBLY (See page 190 for parts)(Effective with engine #21-3419) | |
| 2 | 4376920 | 3 | CAPSCREW, 7/16"NC x 2" | |
| 3 | 4375329 | 3 | WASHER, plain, 1/8" thick | |
| 4 | 4254453 | 3 | NUT, 7/16"NC | |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 5 | 4375277 | 3 | STUD, turbocharger attachment (7/16"NC x 1-7/8") |
| 6 | 4254453 | 3 | NUT, 7/16"NC |
| 7 | 4375329 | 3 | WASHER, plain (1/8" thick) |
| 8 | 4374848 | 1 | □ GASKET, turbocharger to exhaust manifold |
| 9 | 4377034 | 1 | BRACE, turbocharger |
| | 903630 | 1 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 910324 | 1 | NUT, 3/8"NC |
| 10 | 4641412 | 1 | □ GASKET, oil drain tube |
| 11 | 4376877 | 1 | TUBE, oil drain |
| | 919224 | 2 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 12 | 4378392 | 1 | CLAMP, tube supporting, upper half |
| | 4378047 | 1 | CLAMP, tube supporting, lower half |
| | 905656 | 1 | CAPSCREW, 1/4"NC x 5/8" |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| | 910880 | 1 | NUT, 1/4"NC |
| 13 | 4376879 | 1 | HOSE ASSEMBLY, oil drain (See page 6 for parts) |
| | 919225 | 2 | CAPSCREW, 3/8"NC x 1-3/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 919268 | 1 | UNION, flare type, 1" tube |
| 14 | 4371027 | 1 | □ GASKET, oil drain hose |

□ Also see PACKAGED PARTS




T-37201

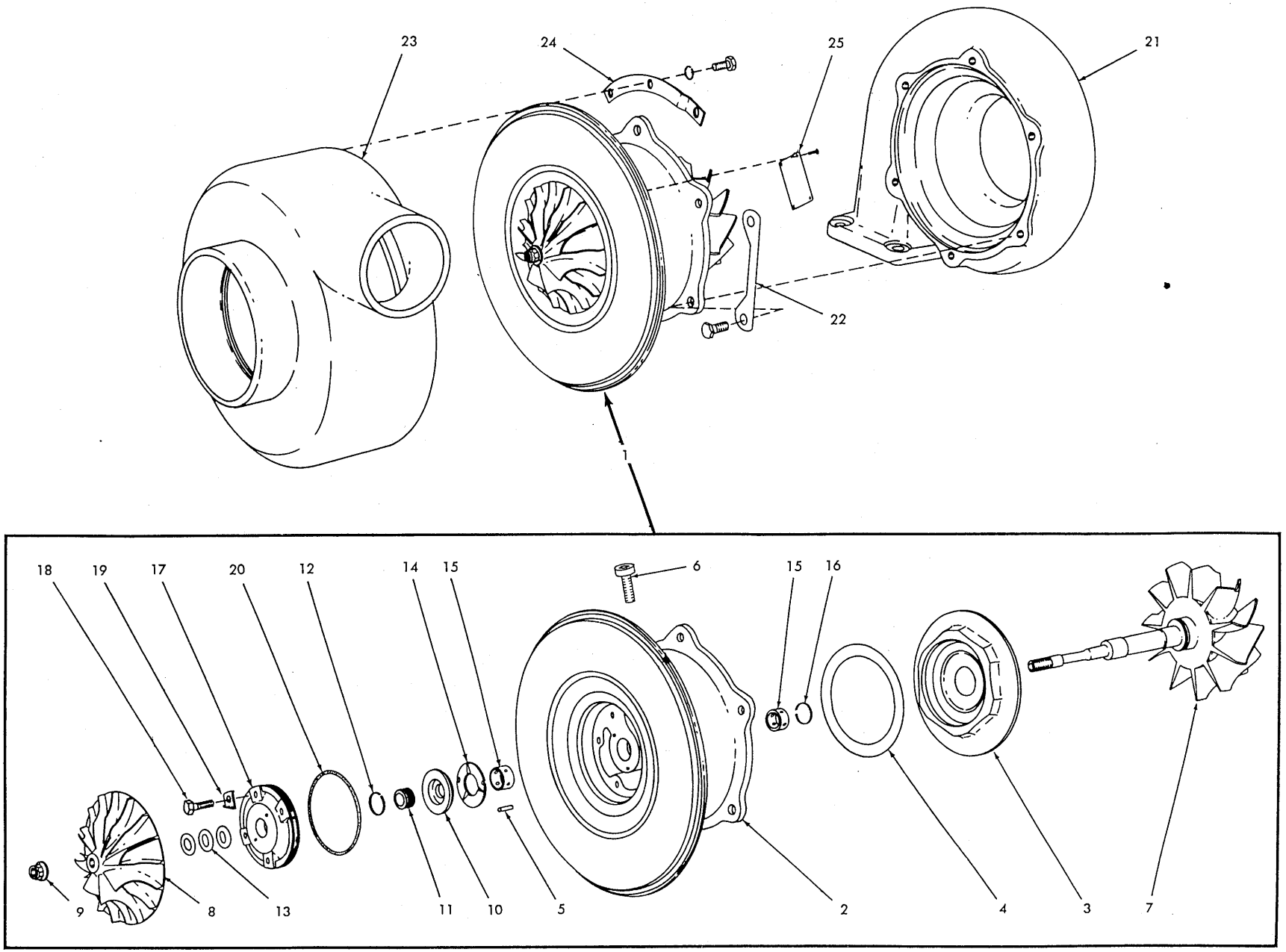
TURBOCHARGER (Third type)

# TURBOCHARGER

USAGE: Engines serial No. 21-3952 and up (21000 series engine)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386508 | 1 | TURBOCHARGER ASSEMBLY (Original equipment. Order TURBOCHARGER ASSEMBLY 4389968) |
| | 4389023 | 1 | TURBOCHARGER ASSEMBLY (First type service replacement. Effective August 1963. Order TURBOCHARGER ASSEMBLY 4389968) |
| | 4389968 | 1 | TURBOCHARGER ASSEMBLY (Second type service replacement. Effective December 1964) |
| 2 | 4336558 | 1 | GASKET, turbocharger to manifold (See item 18) |
| 3 | 4339535 | 4 | STUD, turbocharger attaching |
| 4 | 4385387 | 4 | NUT |
| | 913544 | 4 | WASHER, plain, 13/32" I. D. x 3/4" O. D. x 1/16"thick |
| 5 | 4386237 | 1 | FLANGE, oil supply line |
| | 919226 | 2 | CAPSCREW, 3/8"NC x 1-5/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 6 | 4335647 | 1 | GASKET, oil supply line flange (See item 18) |
| 7 | 4386238 | 1 | HOSE ASSEMBLY, oil supply line (See page 6 for parts. Also includes item 8) |
| | 919063 | 1 | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male |
| 8 | 4379283 | 1 | SLEEVE, hose protecting (asbestos) |
| | 916897 | 2 | CLAMP, hose, 15/16" I. D. |
| 9 | 4254646 | 1 | CLIP, hose supporting |
| | 915408 | 1 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 910324 | 1 | NUT, 3/8"NC |
| 10 | 4385412 | 1 | BRACKET, hose supporting |
| | 916268 | 1 | CAPSCREW, 3/8"NC x 5/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 11 | 4335649 | 1 | GASKET, oil drain line, upper (See item 18) |
| 12 | 4386234 | 1 | TUBE, oil drain line, upper |
| | 916269 | 2 | CAPSCREW, 3/8"NC x 7/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 13 | 4387867 | 1 | HOSE, oil drain line |
| | 4254968 | 2 | CLAMP, hose |
| 14 | 4386236 | 1 | TUBE, oil drain line, lower |
| 15 | 4379723 | 1 | ADAPTER, oil drain line |
| | 4254968 | 1 | CLAMP, hose (small) |
| | 4254991 | 1 | CLAMP, hose (large) |
| 16 | 4379672 | 1 | ELBOW, oil drain line |
| | 921865 | 2 | CAPSCREW, Nylok, 1/2"NC x 1" |
| 17 | 4310257 | 1 | GASKET, oil drain line elbow (See item 18) |
| 18 | 4387007 | 1 | GASKET KIT (Consists of items 2, 6, 11 and 17)(Not illustrated) |

See page 197 for parts




TURBOCHARGER PARTS

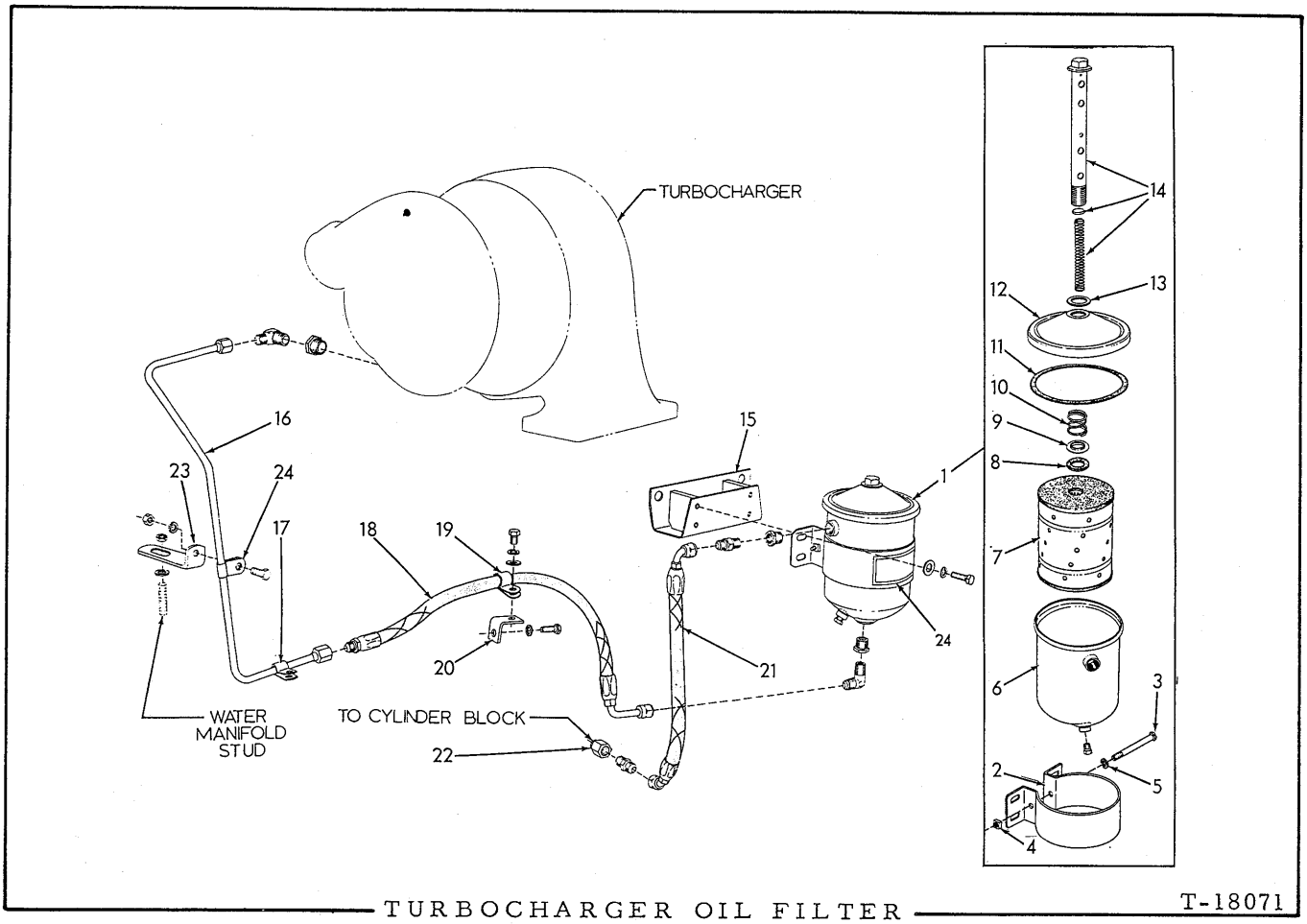
T-36187

# TURBOCHARGER PARTS

* TURBOCHARGER ASSEMBLY 4386508
* TURBOCHARGER ASSEMBLY 4389023
** TURBOCHARGER ASSEMBLY 4389968

See page 195

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4056616 | 1 | 1 | HOUSING AND ROTATING ASSEMBLY (Consists of items 2 thru 20) |
| 2 | 4055980 | 1 | - | HOUSING ASSEMBLY, center (Includes items 3 thru 6) |
| | 4056617 | - | 1 | HOUSING ASSEMBLY, center (Includes items 3 thru 6) |
| 3 | ------ | 1 | 1 | SHROUD, wheel (Not serviced separately) |
| 4 | ------ | 1 | 1 | WASHER, locking, wheel shroud (Not serviced separately) |
| 5 | 4055187 | 2 | 2 | PIN, dowel, center housing |
| 6 | 4055190 | 1 | 1 | PLUG, oil reservoir, center housing |
| 7 | ------ | 1 | - | SHAFT AND WHEEL (Order 4056620 and IMPELLER 4056621) |
| | 4056620 | - | 1 | SHAFT AND WHEEL |
| 8 | ------ | 1 | - | IMPELLER (Order 4056621 and SHAFT AND WHEEL 4056620) |
| | 4056621 | - | 1 | IMPELLER |
| 9 | 4055201 | 1 | 1 | NUT, impeller retaining |
| 10 | 4056494 | 1 | 1 | RING, thrust |
| 11 | 4056339 | 1 | 1 | SPACER, thrust |
| 12 | 4055195 | 1 | 1 | RING, sealing |
| 13 | 4055197 | - | - | SHIM, impeller (.002" thick) — Use as required |
| | 4055198 | - | - | SHIM, impeller (.005" thick) — Use as required |
| | 4055199 | - | - | SHIM, impeller (.010" thick) — Use as required |
| 14 | 4055192 | 1 | 1 | BEARING, thrust |
| 15 | 4055191 | 2 | - | BEARING, impeller shaft |
| | 4056295 | - | 2 | BEARING, impeller shaft |
| 16 | 4255196 | 3 | - | RING, snap |
| | 4056296 | - | 3 | RING, snap |
| 17 | 4055193 | 1 | 1 | PLATE ASSEMBLY, thrust, center housing (Includes riveted washer) |
| 18 | 4055196 | 4 | 4 | CAPSCREW, #10-24NC x 7/8" |
| 19 | 4055194 | 4 | 4 | PLATE, locking |
| 20 | 4053336 | 1 | 1 | O-RING, thrust plate |
| 21 | 4055982 | 1 | 1 | HOUSING, turbine (If for engines prior to #21-05279 also order 6 CAPSCREWS 4056026 and 3 PLATES 4055981) |
| | 903626 | 6 | - | CAPSCREW, 5/16"NC x 3/4" (Used prior to engine #21-05279) |
| | 4056026 | 6 | 6 | CAPSCREW, 3/8"NC x 3/4" (Effective with engine #21-05279) |
| 22 | 4055981 | 3 | 3 | PLATE, capscrew locking |
| 23 | 4055202 | 1 | 1 | HOUSING ASSEMBLY, compressor (Includes venturi) |
| 24 | 4055203 | 6 | 6 | CLAMP, compressor housing |
| | 903626 | 12 | 12 | CAPSCREW, 5/16"NC x 3/4" |
| | 917356 | 12 | 12 | LOCKWASHER, plated, 5/16" |
| 25 | 4055206 | 1 | 1 | PLATE, name |
| | 4049009 | 4 | 4 | SCREW, drive |




TURBOCHARGER OIL FILTER T-18071

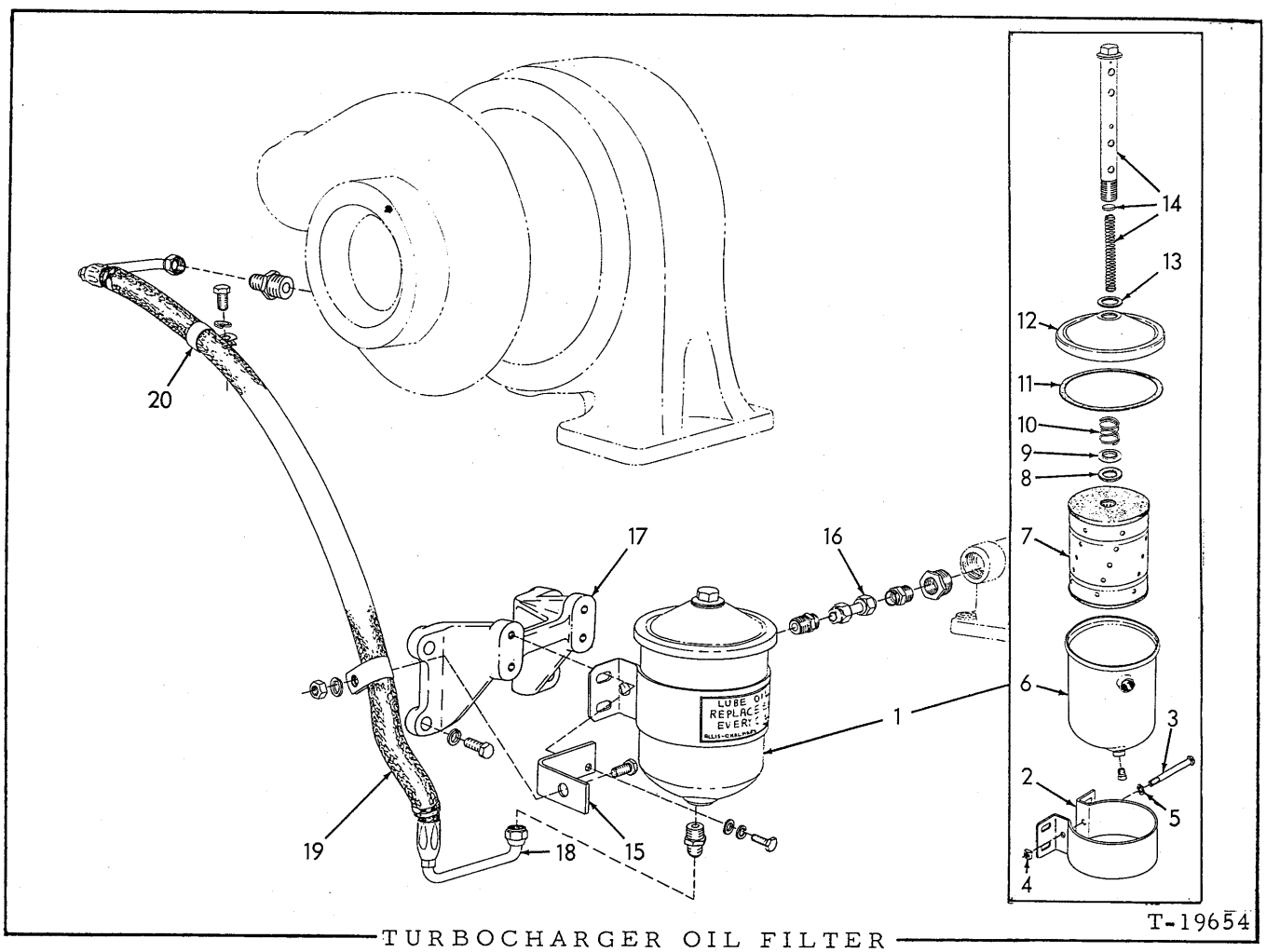
USAGE: Tractors serial No. 9001 thru No. 11000

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4372516 | 1 | FILTER ASSEMBLY, oil (Consists of items 2 thru 14) |
| | 917351 | 2 | BUSHING, pipe reducing, brass, 3/8"NPT to 1/4"NPT |
| | 917033 | 4 | CAPSCREW, 1/4"NF x 3/4" |
| | 911114 | 4 | WASHER, plain, SAE std., 1/4" |
| | 904204 | 4 | LOCKWASHER, 1/4" |
| 2 | 4506165 | 1 | CLAMP, mounting |
| 3 | 4371974 | 1 | BOLT, mounting clamp |
| 4 | 4371795 | 1 | NUT |
| 5 | 4371973 | 1 | LOCKWASHER |
| 6 | 4049472 | 1 | BODY, oil filter |
| | 917426 | 1 | PLUG, pipe, hex-hd., brass, 1/8"NPT |
| 7 | 4372517 | 1 | CARTRIDGE ASSEMBLY (Includes items 8, 11 and 13) |
| 8 | 4041209 | 1 | GASKET, cartridge |
| 9 | 4048794 | 1 | WASHER, cartridge gasket |
| 10 | 4048793 | 1 | SPRING, cartridge retaining |
| 11 | 4049470 | 1 | GASKET, filter body cover |
| 12 | 4049471 | 1 | COVER, filter body |

(Continued)

## TURBOCHARGER OIL FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 13 | 4049469 | 1 | GASKET, cover bolt |
| 14 | 4049468 | 1 | BOLT ASSEMBLY (Includes check valve. Serviced only as a unit) |
| 15 | 4375432 | 1 | BRACKET, filter mounting |
| 16 | 4376044 | 1 | TUBE ASSEMBLY, filter to turbocharger (Includes nuts and sleeves) |
| | 919136 | 1 | ELBOW, flare type, 90°, 3/8" tube, 3/8"NPT male |
| | 904271 | 1 | BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT |
| 17 | 043344 | 1 | CLIP, tube supporting |
| 18 | 4376055 | 1 | HOSE ASSEMBLY, filter to turbocharger (See page 6 for parts) |
| | 919135 | 1 | ELBOW, flare type, 90°, 3/8" tube, 1/4"NPT male |
| 19 | 4254575 | 1 | CLIP, supporting, filter hose |
| | 912742 | 1 | CAPSCREW, 3/8"NF x 1/2" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 900817 | 1 | WASHER, plain, U.S. std., 3/8"' |
| 20 | 4376043 | 1 | BRACKET, hose supporting clip |
| | 915408 | 1 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 21 | 4376054 | 1 | HOSE ASSEMBLY, filter to cylinder block (See page 6 for parts) |
| | 919062 | 2 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 22 | 4376032 | 1 | ADAPTOR, oil filter hose (1/8"NPT male, 1/4"NPT female) |
| | | | NOTE: Items listed below were not original equipment but are recommended for installation on all units. |
| 23 | 4378296 | 1 | BRACKET, oil line supporting clip |
| | 910329 | 1 | NUT, jam, 3/8"NF |
| | 914498 | 1 | WASHER, plain |
| 24 | 4378298 | 1 | CLIP, oil line supporting |
| | 903629 | 1 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 912772 | 1 | NUT, jam, 3/8"NF |




TURBOCHARGER OIL FILTER

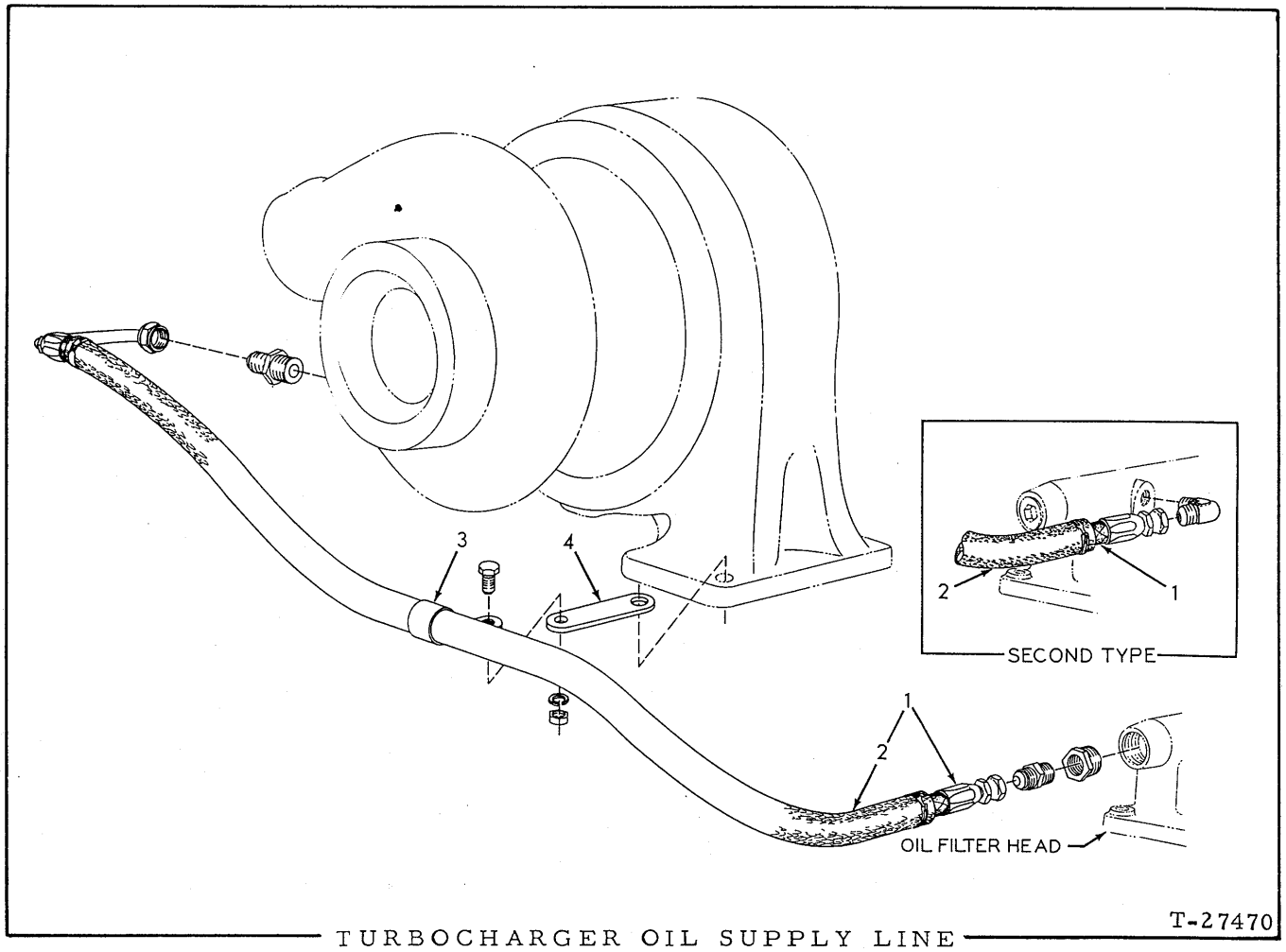
USAGE: Effective with tractor serial No. 11001 but later discontinued approx. July 1, 1960

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4372516 | 1 | FILTER ASSEMBLY, oil (Consists of items 2 thru 14) |
| | 916400 | 3 | CAPSCREW, 1/4"NF x 3/4" |
| | 912626 | 1 | CAPSCREW, 1/4"NF x 7/8" (Also attaches hose support) |
| | 911114 | 4 | WASHER, plain, SAE std., 1/4" |
| | 904204 | 4 | LOCKWASHER, 1/4" |
| 2 | 4506165 | 1 | CLAMP, mounting |
| 3 | 4371974 | 1 | BOLT, mounting clamp |
| 4 | 4371795 | 1 | NUT |
| 5 | 4371973 | 1 | LOCKWASHER |
| 6 | 4049472 | 1 | BODY, oil filter |
| | 917426 | 1 | PLUG, pipe, hex-hd., brass, 1/8"NPT |
| 7 | 4372517 | 1 | CARTRIDGE ASSEMBLY (Includes items 8, 11 and 13) |
| 8 | 4041209 | 1 | GASKET, cartridge |
| 9 | 4048794 | 1 | WASHER, cartridge gasket |
| 10 | 4048793 | 1 | SPRING, cartridge retaining |

(Continued)

## TURBOCHARGER OIL FILTER (Continued)

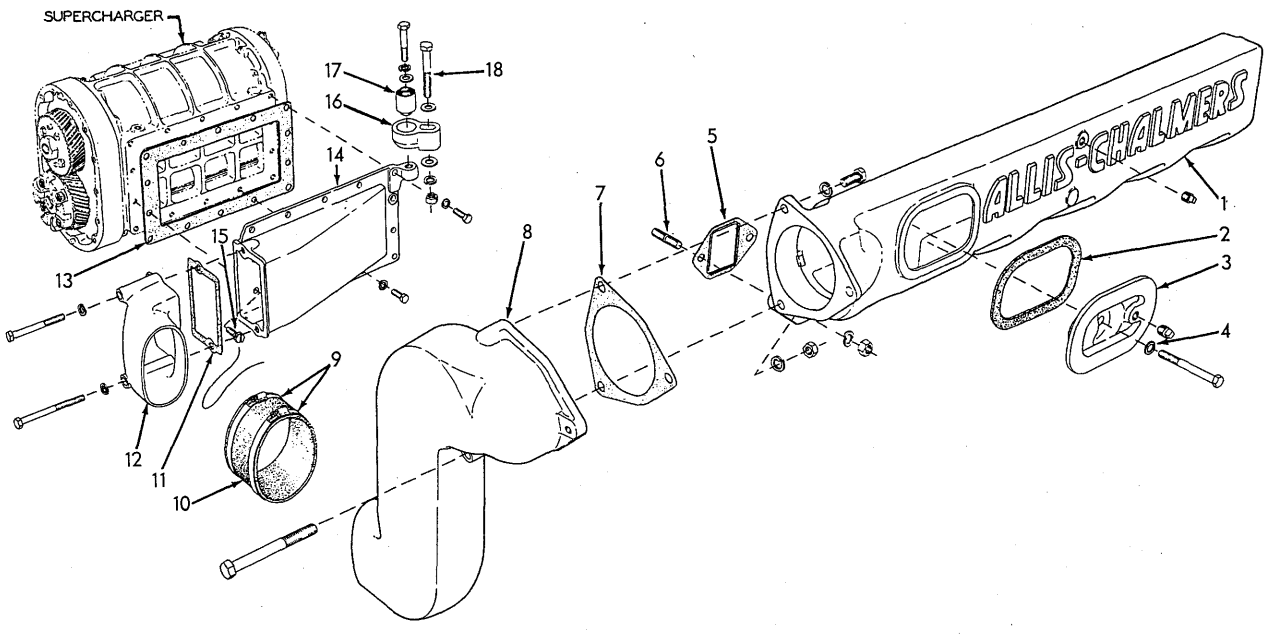
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 11 | 4049470 | 1 | GASKET, filter body cover |
| 12 | 4049471 | 1 | COVER, filter body |
| 13 | 4049469 | 1 | GASKET, cover bolt |
| 14 | 4049468 | 1 | BOLT ASSEMBLY (Includes check valve. Serviced only as a unit) |
| 15 | 4378386 | 1 | SUPPORT, filter hose |
| 16 | 4377964 | 1 | TUBE ASSEMBLY, filter inlet (Includes NUTS and SLEEVES indented below) |
| | 917810 | 2 | NUT, Imperial, 3/8" tube |
| | 917807 | 2 | SLEEVE, Imperial, 3/8" tube |
| | 918777 | 2 | CONNECTOR, Imperial, 3/8" tube, 3/8"NPT male |
| | 904239 | 1 | BUSHING, pipe reducing, 3/4"NPT to 3/8"NPT |
| 17 | 4377951 | 1 | BRACKET, filter mounting |
| | 910211 | 4 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 18 | 4379282 | 1 | HOSE ASSEMBLY, filter to turbocharger (Includes item 19. See page 6 for parts) |
| | 919172 | 1 | CONNECTOR, flare type, 3/8" tube, 3/8"NPT male |
| | 919127 | 1 | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male |
| 19 | 4379283 | 1 | SLEEVE, hose protecting (asbestos) |
| | 920552 | 2 | CLAMP, hose, 7/8"I.D. |
| 20 | 4254575 | 2 | CLIP, supporting, filter hose |
| | 916268 | 1 | CAPSCREW, 3/8"NC x 5/8" |
| | 916269 | 1 | CAPSCREW, 3/8"NC x 7/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 910324 | 1 | NUT, 3/8"NC |




TURBOCHARGER OIL SUPPLY LINE

USAGE: Effective approx. July 1, 1960 but later discontinued on engine serial No. 21-3952.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4385086 | 1 | HOSE ASSEMBLY (See page 6 for parts. Also includes item 2) (Used prior to engine #21-3811 including #21-3813 and #21-3814) |
| | 919172 | 1 | CONNECTOR, flare type, 3/8" tube, 3/8"NPT male |
| | 919127 | 1 | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male |
| | 904239 | 1 | BUSHING, pipe reducing, 3/4"NPT to 3/8"NPT |
| 1 | 4385727 | 1 | HOSE ASSEMBLY (See page 6 for parts. Also includes item 2) (Effective with engine #21-3811 excluding #21-3813 and #21-3814) |
| | 919136 | 1 | ELBOW, flare type, 90°, 3/8" tube, 3/8"NPT male |
| | 919127 | 1 | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male |
| 2 | 4385097 | 1 | TUBING, hose protecting (asbestos) |
| | 920552 | 2 | CLAMP, hose, 7/8"I.D. |
| 3 | 4254575 | 1 | CLIP, hose supporting |
| | 916268 | 1 | CAPSCREW, 3/8"NC x 5/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 910324 | 1 | NUT, 3/8"NC |
| 4 | 4385093 | 1 | BRACKET, hose supporting |




INTAKE MANIFOLD (First type) T-13071

USAGE: Tractors prior to serial No. 9001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4371474 | 1 | MANIFOLD, intake |
| | 901652 | 1 | PLUG, pipe, 1/4"NPT |
| 2 | 4363367 | 1 | □GASKET, cover plate |
| 3 | 4670584 | 1 | PLATE, cover (Not used when AIR HEATER in installed) |
| | 901652 | 1 | PLUG, pipe, 1/4"NPT |
| | 906695 | 1 | CAPSCREW, 3/8"NC x 3-1/4" |
| 4 | 4105451 | 1 | GASKET, cover plate capscrew |
| 5 | 4375865 | 6 | □GASKET, manifold |
| 6 | 4367187 | 12 | STUD, manifold |
| | 910195 | 12 | NUT, 1/2"NF |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 7 | 4362148 | 1 | □GASKET, pipe |
| 8 | 4372260 | 1 | PIPE, supercharger to manifold |
| | 903639 | 2 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 912195 | 1 | CAPSCREW, 1/2"NF x 4" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 910195 | 1 | NUT, 1/2"NF |
| 9 | 4253471 | 2 | CLAMP, supercharger hose |
| 10 | 4362147 | 1 | HOSE, supercharger pipe (rubber) |
| 11 | 4362231 | 1 | □GASKET, discharge elbow |

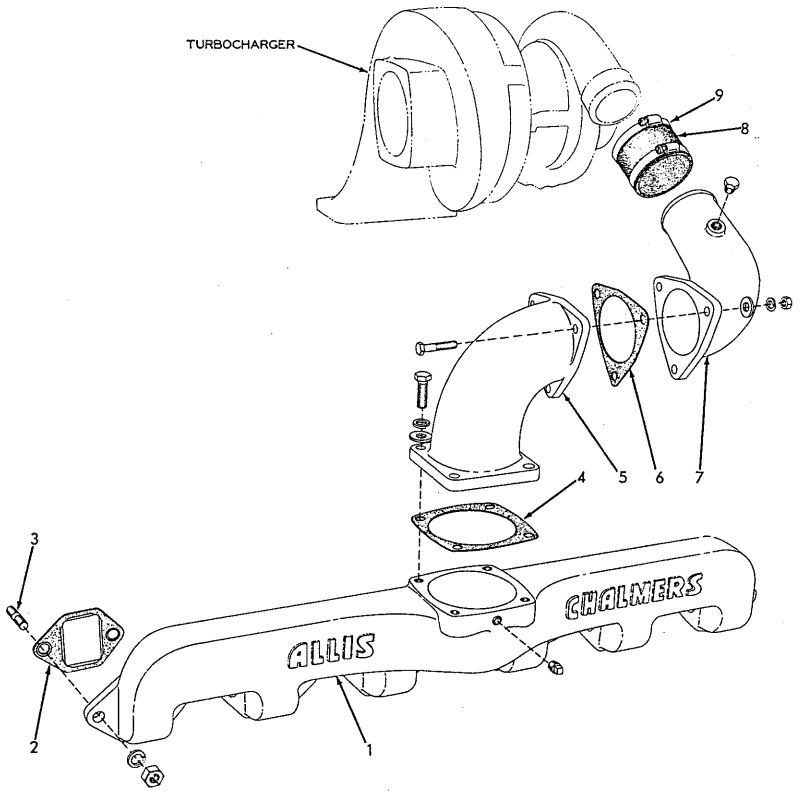
□Also see PACKAGED PARTS

(Continued)

## INTAKE MANIFOLD (First type)(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 12 | 4362230 | 1 | ELBOW, discharge |
| | 906695 | 1 | CAPSCREW, 3/8"NC x 3-1/4" |
| | 906696 | 1 | CAPSCREW, 3/8"NC x 3-3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 13 | 4362150 | 1 | □GASKET, discharge pipe |
| 14 | 4362074 | 1 | PIPE, discharge |
| | 903630 | 11 | CAPSCREW, 3/8"NC x 1" |
| | 910211 | 1 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| 15 | 4369110 | 2 | CAPSCREW (drilled head) |
| | 4503600 | 1 | WIRE, locking, #18 x 10" |
| 16 | 4362202 | 1 | BRACE, supercharger supporting |
| 17 | 4362203 | 1 | MOUNTING, shock, supercharger (rubber) |
| | 912190 | 1 | CAPSCREW, 7/16"NC x 2-1/2" |
| | 904207 | 1 | LOCKWASHER, 7/16" |
| | 912298 | 1 | WASHER, plain, SAE std., 7/16" |
| 18 | 4362258 | 1 | CAPSCREW, supporting brace (1/2"NC x 3-1/4") |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| | 910325 | 1 | NUT, 1/2"NC |

□Also see PACKAGED PARTS



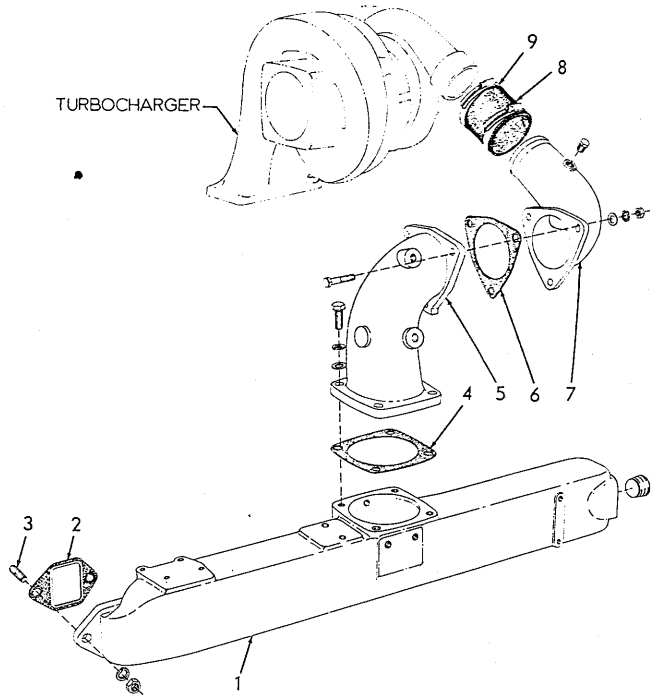

INTAKE MANIFOLD (Second type) T-18069

# INTAKE MANIFOLD (Second type)

USAGE: Tractors serial No. 9001 thru No. 11000

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4371860 | 1 | MANIFOLD, intake |
| | 901652 | 1 | PLUG, pipe, 1/4"NPT |
| 2 | 4375865 | 6 | □GASKET, manifold |
| 3 | 4367187 | 12 | STUD, manifold |
| | 910195 | 12 | NUT, 1/2"NF |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 4 | 4361551 | 1 | □GASKET, elbow to manifold |
| 5 | 4374768 | 1 | ELBOW, manifold (See page 233 for special elbow used with Air Heater System) |
| | 903639 | 4 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 912333 | 4 | WASHER, plain (17/32"I. D. x 15/16" x .065" thick) |
| 6 | 4374774 | 1 | □GASKET, intake elbow |
| 7 | 4374767 | 1 | ELBOW, intake |
| | 919840 | 1 | PLUG, pipe, hex-hd.,1/4"NPT (Not used when engine primer is installed) |
| | 903633 | 3 | CAPSCREW, 3/8"NC x 1-3/4" |
| | 911115 | 3 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 3 | LOCKWASHER, 3/8" |
| | 910324 | 3 | NUT, 3/8"NC |
| 8 | 4388349 | 1 | HOSE, elbow to turbocharger |
| 9 | 4255644 | 2 | CLAMP, hose |

□Also see PACKAGED PARTS

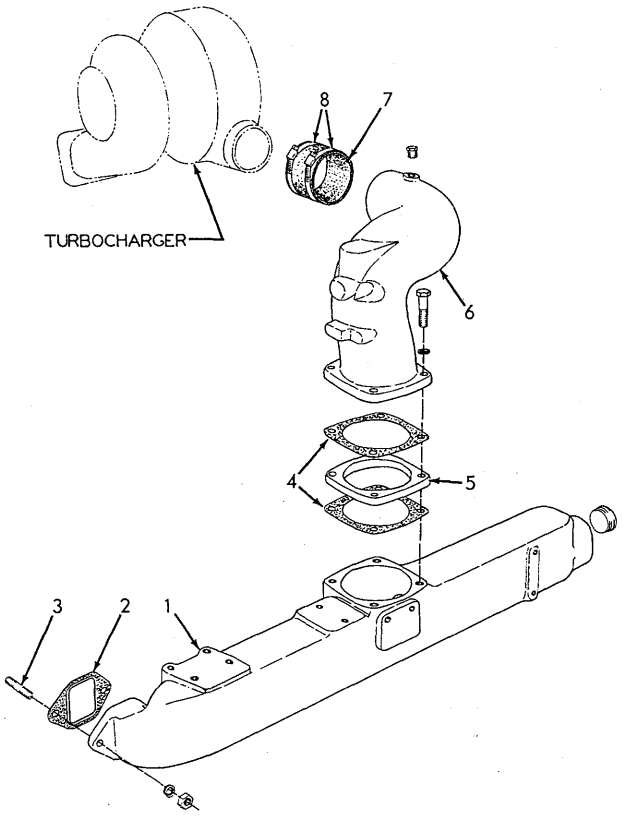



INTAKE MANIFOLD (Third type) T-19655

USAGE: Effective with tractor serial No.11001 but later discontinued with engine serial No. 21-3952

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386948 | 1 | MANIFOLD, intake |
| | 901668 | 1 | PLUG, pipe, ctsk-hd., 1-1/2"NPT |
| 2 | 4375865 | 6 | □GASKET, manifold |
| 3 | 4367187 | 5 | STUD (2" long) |
| | 4386041 | 7 | STUD (2-5/16" long) |
| | 910195 | 12 | NUT, 1/2"NF |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 4 | 4361551 | 1 | □GASKET, elbow to manifold |
| 5 | 4377022 | 1 | ELBOW, manifold (See page 237 for special elbow used with Air Heater System) |
| | 915987 | 4 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 912333 | 4 | WASHER, plain (17/32" I.D. x 15/16" x .065" thick) |
| 6 | 4374774 | 1 | □GASKET, intake elbow |
| 7 | 4374767 | 1 | ELBOW, intake |
| | 919840 | 1 | PLUG, pipe, hex-hd., 1/4"NPT (Not used when engine primer is installed) |
| | 916273 | 3 | CAPSCREW, 3/8"NC x 1-3/4" |
| | 911115 | 3 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 3 | LOCKWASHER, 3/8" |
| | 910324 | 3 | NUT, 3/8"NC |
| 8 | 4388349 | 1 | HOSE, elbow to turbocharger |
| 9 | 4255644 | 2 | CLAMP, hose |

□Also see PACKAGED PARTS

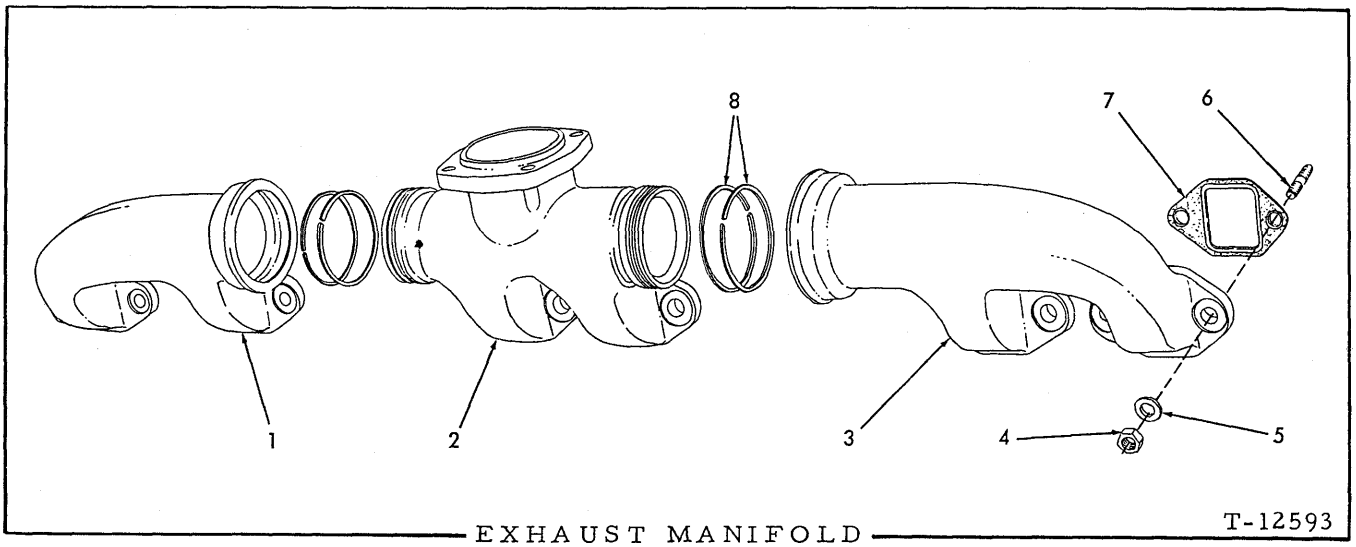



INTAKE MANIFOLD (Fourth type) T-37198

USAGE: Engines serial No. 21-3952 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386948 | 1 | MANIFOLD, intake |
| | 901668 | 1 | PLUG, pipe, ctsk-hd., 1-1/2"NPT |
| 2 | 4375865 | 6 | □GASKET, manifold |
| 3 | 4367187 | 5 | STUD (2" long) |
| | 4386041 | 7 | STUD (2-5/16" long) |
| | 910195 | 12 | NUT, 1/2"NF |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 4 | 4361551 | 2 | □GASKET, elbow to manifold |
| 5 | 4386231 | 1 | SPACER, air intake elbow |
| 6 | 4386611 | 1 | ELBOW, air intake (See page 237 for special elbow used with Air Heater System) |
| | 919840 | 1 | PLUG, pipe, hex-hd., 1/4"NPT (Not used when engine primer is installed) |
| | 903640 | 4 | CAPSCREW, 1/2"NC x 2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 7 | 4388350 | 1 | HOSE, elbow to turbocharger |
| 8 | 4255348 | 2 | CLAMP, hose |

□Also see PACKAGED PARTS

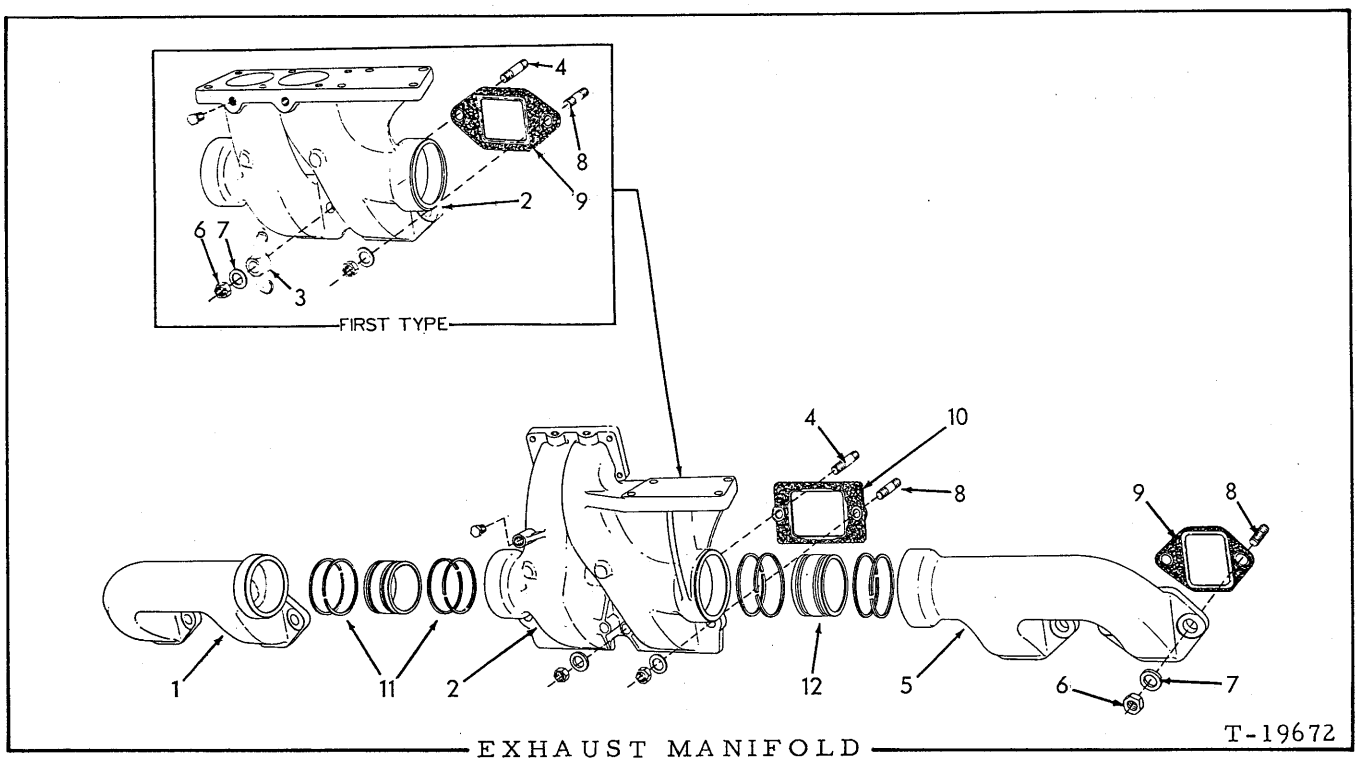



EXHAUST MANIFOLD

USAGE: Tractors prior to serial No. 9001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4365831 | 1 | MANIFOLD, rear section |
| 2 | 4367606 | 1 | MANIFOLD, center section |
| 3 | 4366308 | 1 | MANIFOLD, front section |
| 4 | 4253270 | 12 | NUT, manifold stud |
| 5 | 4371107 | 12 | WASHER, manifold stud nut |
| 6 | 4346208 | 12 | STUD, manifold |
| 7 | 4375865 | 6 | □GASKET, manifold |
| 8 | 4366243 | 4 | RING, sealing |

□Also see PACKAGED PARTS



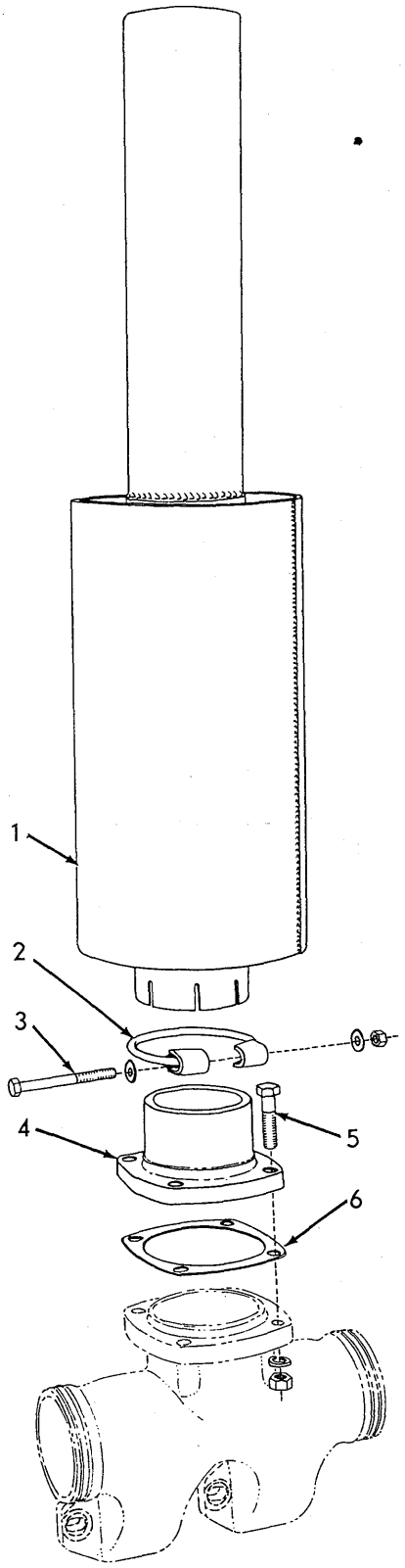

EXHAUST MANIFOLD

USAGE: Tractors serial No. 9001 and up

* Engines prior to serial No. 21-3330
** Engines serial No. 21-3330 and up

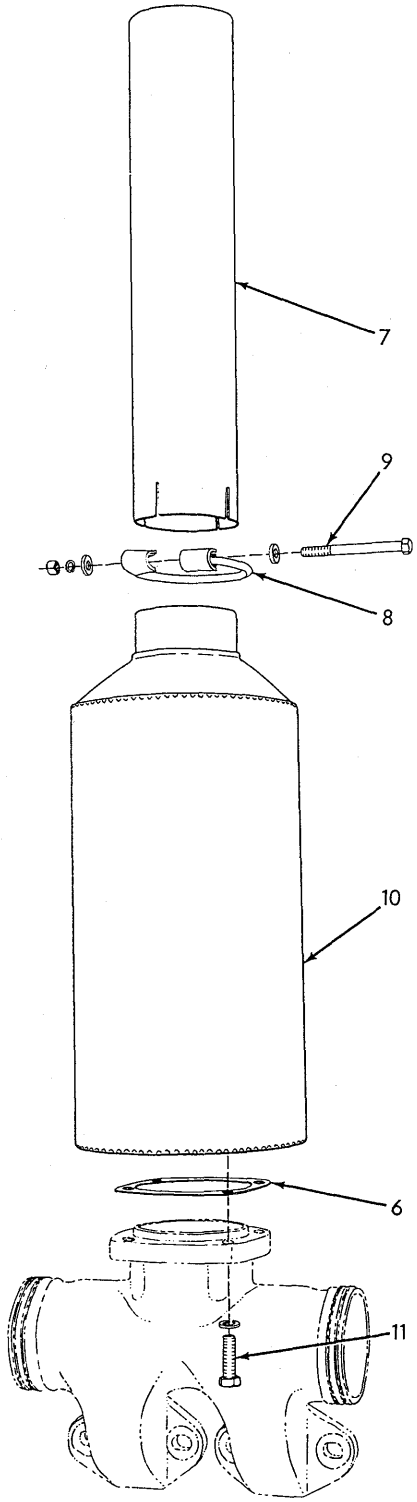
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4374694 | 1 | 1 | MANIFOLD, rear section |
| 2 | 4374691 | 1 | - | MANIFOLD, center section (Used prior to tractor #11001) |
| | ------ | 1 | - | MANIFOLD, center section (Effective with tractor #11001. Order 1 MANIFOLD 4379165 and 2 GASKETS 4379167) |
| | 4379165 | - | 1 | MANIFOLD, center section (Used prior to engine #21-3952) |
| | 4387014 | - | 1 | MANIFOLD, center section (Effective with engine #21-3952) |
| | 917425 | 2 | 2 | PLUG, pipe, hex-hd., brass, 1/4"NPT |
| 3 | 4374727 | 2 | - | CLAMP, center manifold |
| 4 | 4374744 | 2 | 2 | STUD, center manifold (1/2"NC x 3-1/4") |
| 5 | 4374695 | 1 | 1 | MANIFOLD, front section |
| 6 | 4253270 | 12 | 12 | NUT, manifold stud |
| 7 | 4371107 | 12 | 12 | WASHER, manifold stud nut |
| 8 | 4346208 | 10 | 10 | STUD, manifold (1/2"NC x 2-1/8") |
| 9 | 4375865 | 6 | 4 | □GASKET, manifold |
| 10 | 4379167 | - | 2 | □GASKET, center manifold |
| 11 | 4376036 | 8 | 8 | RING, sealing |
| 12 | 4375355 | 2 | 2 | SLEEVE, connecting |

□Also see PACKAGED PARTS



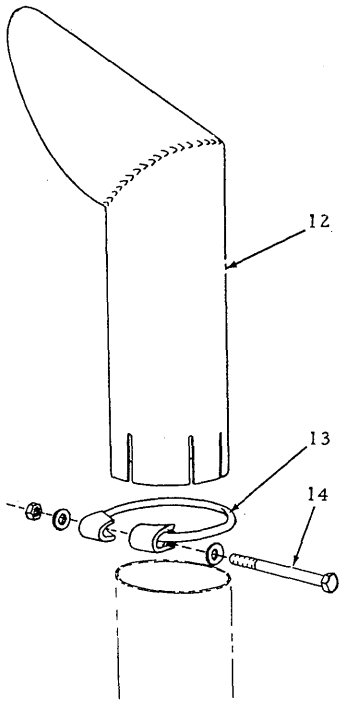

FIRST TYPE

T-13981



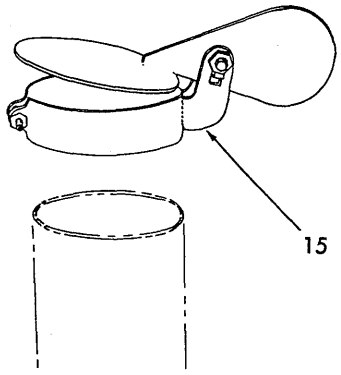

SECOND TYPE

T-14000




RAIN SHIELD

T-13997




RAIN CAP

T-13997A

MUFFLER

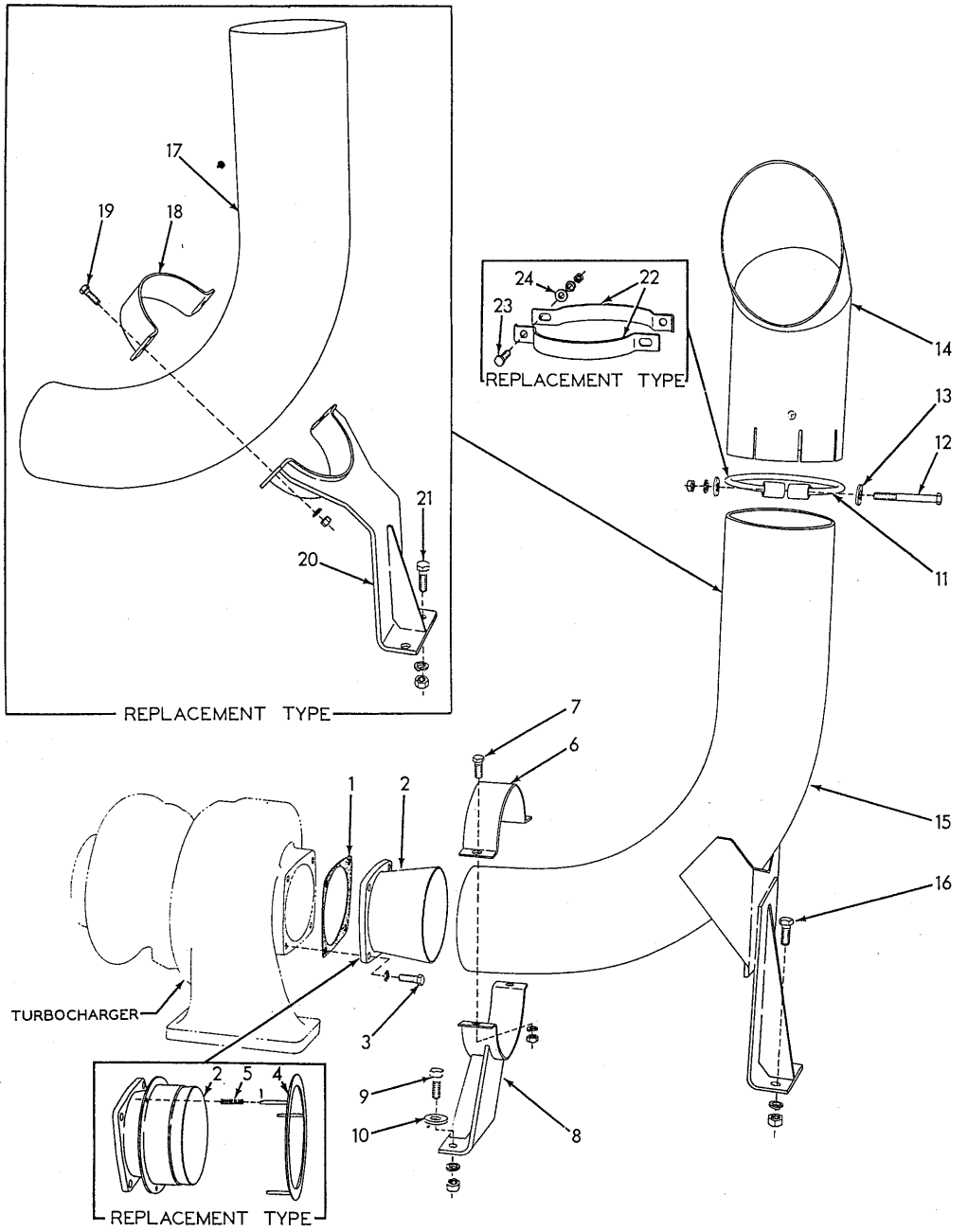
# MUFFLER

USAGE: Tractors prior to serial No. 9001

* Tractors prior to serial No. 7326
** Tractors serial No. 7326 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | - | MUFFLER (Order items 7 thru 11) |
| 2 | ------ | 1 | - | CLAMP, muffler (Original equipment. Order CLAMP 646078 and CAPSCREW 920613) |
| | 646078 | 1 | - | CLAMP, muffler (Service replacement) |
| 3 | 035711 | 1 | - | CAPSCREW, 3/8"NF x 3-3/8" (Original equipment) |
| | 920613 | 1 | - | CAPSCREW, 3/8"NF x 3" (Used with CLAMP 646078 only) |
| | 900817 | 2 | - | WASHER, plain, U.S. std., 3/8" |
| | 904206 | 1 | - | LOCKWASHER, 3/8" |
| | 911041 | 1 | - | NUT, 3/8"NF |
| 4 | 081814 | 1 | - | FLANGE, exhaust |
| 5 | 921556 | 4 | - | CAPSCREW, 1/2"NC x 2" |
| | 904208 | 4 | - | LOCKWASHER, 1/2" |
| | 911028 | 4 | - | NUT, 1/2"NC |
| 6 | 4366244 | 1 | 1 | □GASKET, exhaust flange |
| 7 | 086771 | - | 1 | PIPE, exhaust (19-1/2" long) |
| 8 | ------ | - | 1 | CLAMP, exhaust pipe (Original equipment. Order CLAMP 634091 and CAPSCREW 916389) |
| | 634091 | - | 1 | CLAMP, exhaust pipe (Service replacement) |
| 9 | 053619 | - | 1 | CAPSCREW, 3/8"NF x 3-3/4" (Original equipment) |
| | 916389 | - | 1 | CAPSCREW, 3/8"NF x 3-1/4" (Used with CLAMP 634091 only) |
| | 044973 | - | 2 | WASHER, plain |
| | 904206 | - | 1 | LOCKWASHER, 3/8" |
| | 911041 | - | 1 | NUT, 3/8"NF |
| 10 | 086770 | - | 1 | MUFFLER |
| 11 | ------ | - | 4 | CAPSCREW (Original equipment. Order STUD 4346208 and NUT 917260) |
| | 4346208 | - | 4 | STUD, (1/2" diam.)(Service replacement) |
| | 904208 | - | 4 | LOCKWASHER, 1/2" |
| | 917260 | - | 4 | NUT, brass, 1/2"NC (Service replacement) |
| | | | | NOTE: The following items are Special Equipment |
| 12 | 083170 | 1 | 1 | SHIELD, rain, exhaust pipe |
| 13 | ------ | 1 | 1 | CLAMP, exhaust pipe and rain shield (Original equipment. Order CLAMP 646078 and CAPSCREW 920613) |
| | 646078 | 1 | 1 | CLAMP, exhaust pipe and rain shield (Service replacement) |
| 14 | 052016 | 1 | 1 | CAPSCREW, 3/8"NF x 4" (Original equipment) |
| | 920613 | 1 | 1 | CAPSCREW, 3/8"NF x 3" (Used with CLAMP 646078 only) |
| | 900817 | 2 | 2 | WASHER, plain, U.S. std., 3/8" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 15 | 068623 | 1 | 1 | RAINCAP, exhaust pipe |

□Also see PACKAGED PARTS




EXHAUST PIPE

USAGE: Tractors serial No. 9001 thru No. 11000

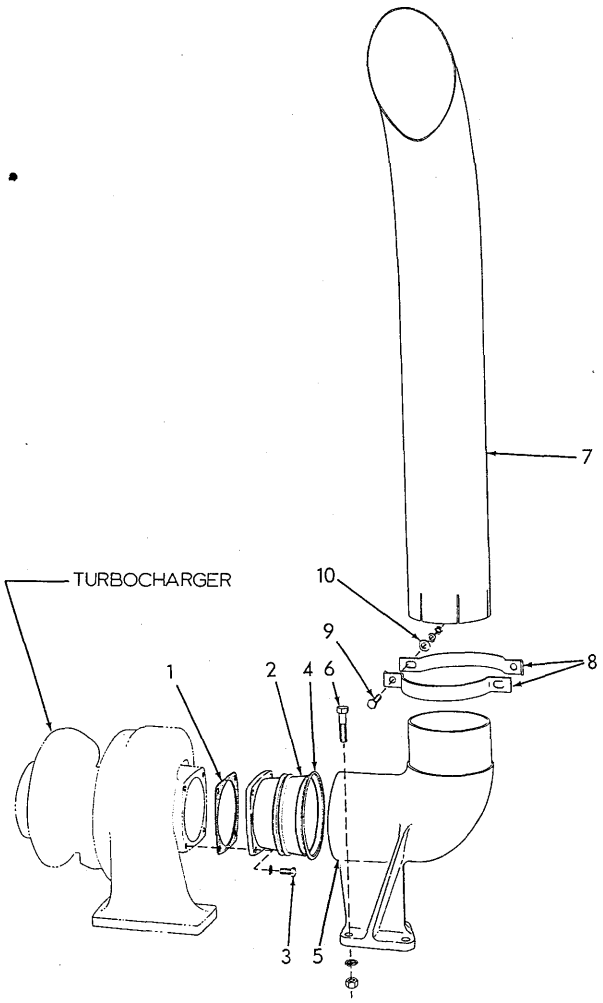
* Original Equipment
** Service replacement only

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| | | | | NOTE: See MUFFLER for exhaust pipe used on early units |
| 1 | 092491 | 1 | 1 | GASKET, exhaust |

(Continued)

## EXHAUST PIPE (Continued)

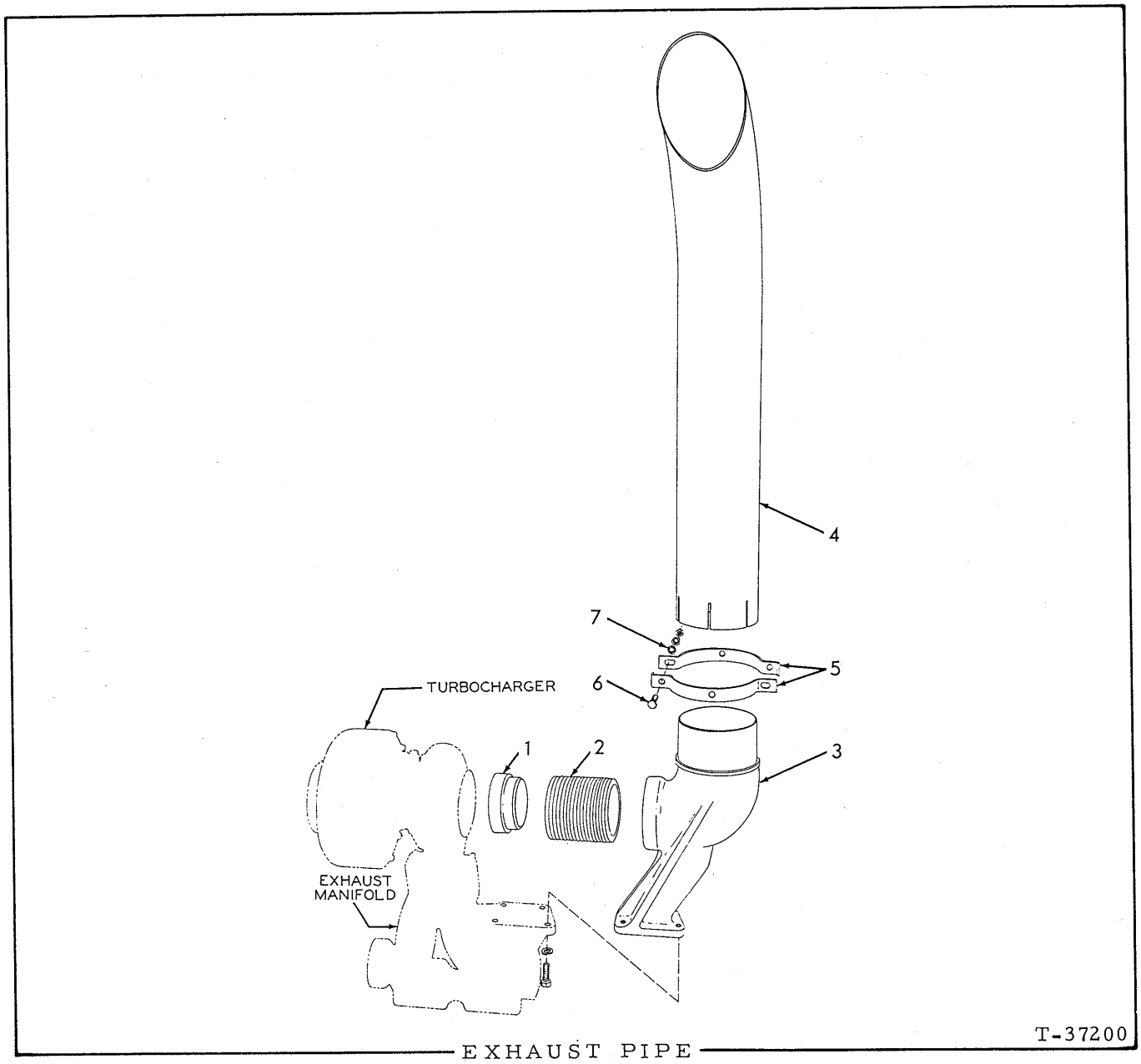
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 2 | ------ | 1 | - | DIFFUSER, exhaust (Order DIFFUSER ASSEMBLY 098011) |
| | 098011 | - | 1 | DIFFUSER ASSEMBLY, exhaust (Includes items 4 and 5) |
| 3 | 092634 | 4 | 4 | CAPSCREW, 3/8"NC x 7/8" (stainless) |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 4 | 098008 | - | 1 | RING, contact, exhaust diffuser |
| | 900800 | - | 3 | PIN, cotter, 1/16" x 3/4" |
| 5 | 051965 | - | 3 | SPRING, contact ring |
| 6 | 092234 | 1 | 1 | STRAP, exhaust pipe |
| 7 | 036034 | 2 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | NUT, 3/8"NF |
| 8 | 092232 | 1 | 1 | BRACKET, exhaust pipe supporting |
| 9 | 092912 | 2 | 2 | CAPSCREW, 7/16"NF x 1-3/4" |
| 10 | 074790 | 2 | 2 | WASHER, plain (3/16" thick) |
| | 904207 | 2 | 2 | LOCKWASHER, 7/16" |
| | 911042 | 2 | 2 | NUT, 7/16"NF |
| 11 | ------ | 1 | - | CLAMP, exhaust pipe shield (Order items 22 thru 24) |
| 12 | 053619 | 1 | - | CAPSCREW, 3/8"NF x 3-3/4" |
| 13 | 044973 | 2 | - | WASHER, plain (3/16" thick) |
| | 911041 | 1 | - | NUT, 3/8"NF |
| 14 | 091912 | 1 | 1 | SHIELD, exhaust pipe |
| 15 | ------ | 1 | - | PIPE, exhaust (Order items 17 thru 20) |
| 16 | 070469 | 2 | - | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | - | LOCKWASHER, 1/2" |
| | 911043 | 2 | - | NUT, 1/2"NF |
| 17 | 091917 | - | 1 | PIPE, exhaust |
| 18 | 092234 | - | 1 | STRAP, exhaust pipe bracket |
| 19 | 036034 | - | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| | 911041 | - | 2 | NUT, 3/8"NF |
| 20 | 097163 | - | 1 | BRACKET, exhaust pipe supporting |
| 21 | 070469 | - | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | - | 2 | LOCKWASHER, 1/2" |
| | 911043 | - | 2 | NUT, 1/2"NF |
| 22 | 095589 | - | 2 | CLAMP, exhaust pipe shield |
| 23 | 035336 | - | 2 | CAPSCREW, 3/8"NF x 1-3/4" |
| 24 | 044973 | - | 2 | WASHER, plain |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| | 911041 | - | 2 | NUT, 3/8"NF |




EXHAUST PIPE

USAGE: Effective with tractor serial No. 11001 but later discontinued with engine serial No. 21-3952

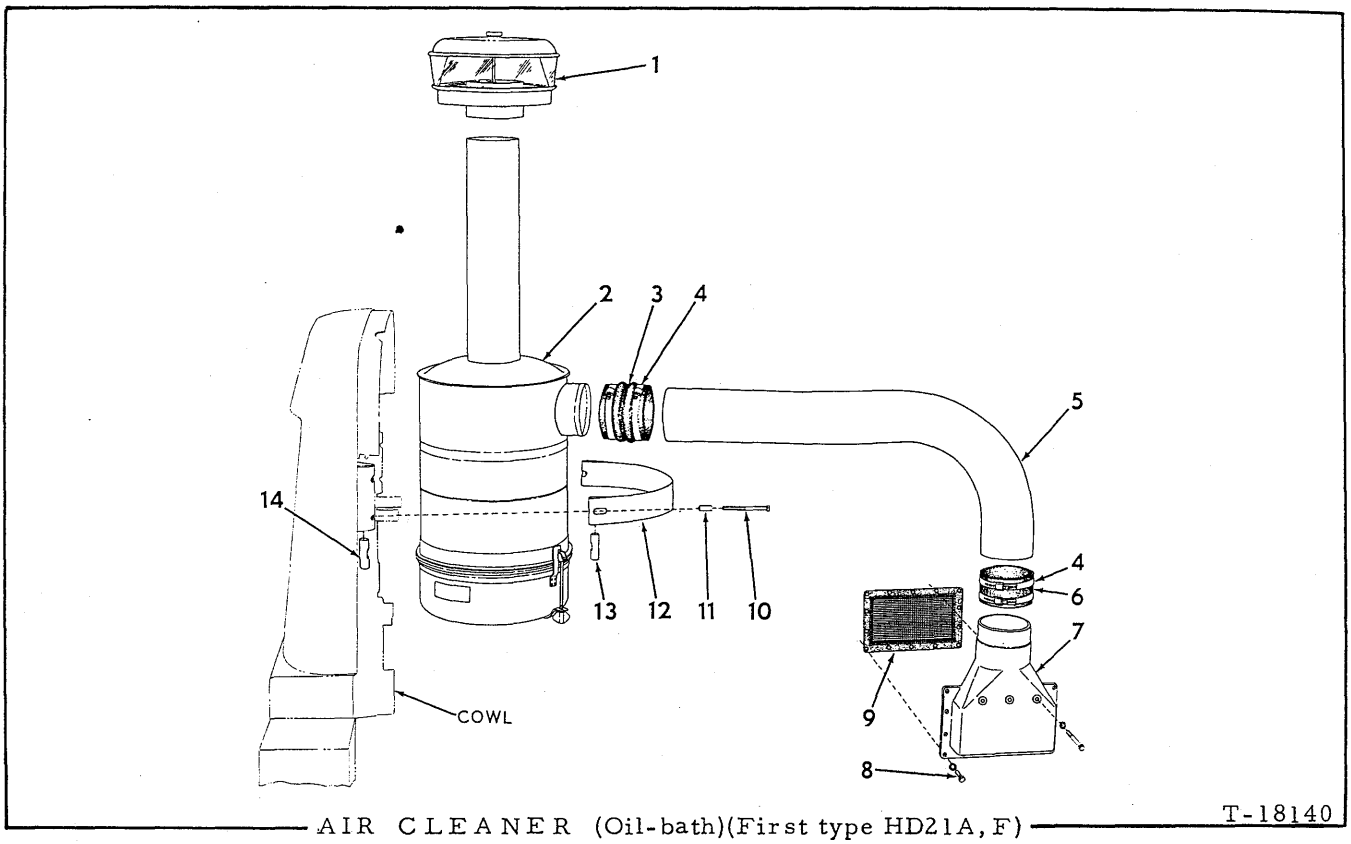
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 092491 | 1 | GASKET, exhaust diffuser |
| 2 | 098686 | 1 | DIFFUSER, exhaust |
| 3 | 092634 | 4 | CAPSCREW, 3/8"NC x 7/8" (stainless) |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 4 | 098687 | 1 | RING, sealing, exhaust diffuser (Effective with tractor #11799) |
| 5 | 629637 | 1 | ELBOW, exhaust pipe |
| 6 | 035067 | 4 | CAPSCREW, 1/2"NF x 2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 7 | 096055 | 1 | PIPE, exhaust |
| 8 | 095589 | 2 | CLAMP, exhaust pipe |
| 9 | 035336 | 2 | CAPSCREW, 3/8"NF x 1-3/4" |
| 10 | 044973 | 2 | WASHER, plain |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |




EXHAUST PIPE

USAGE: Engines serial No. 21-3952 and up

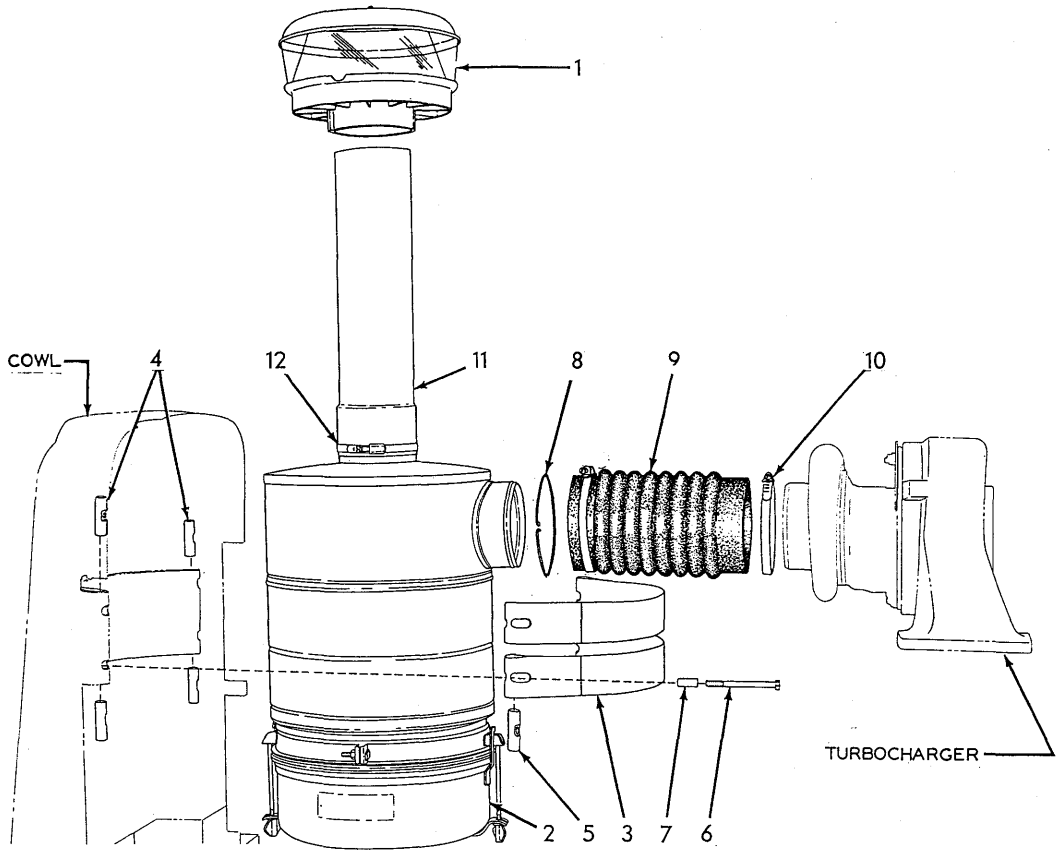
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386256 | 1 | ADAPTOR, exhaust hose |
| 2 | 4388209 | 1 | HOSE, exhaust (metal bellows) |
| 3 | 4386559 | 1 | ELBOW, exhaust pipe |
| | 919230 | 4 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 4 | 096055 | 1 | PIPE, exhaust |
| 5 | 095589 | 2 | CLAMP, exhaust pipe |
| 6 | 035336 | 2 | CAPSCREW, 3/8"NF x 1-3/4" |
| 7 | 044973 | 2 | WASHER, plain |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |




AIR CLEANER (Oil-bath)(First type HD21A,F) T-18140

USAGE: Model HD21A,F tractors prior to serial No. 9001.

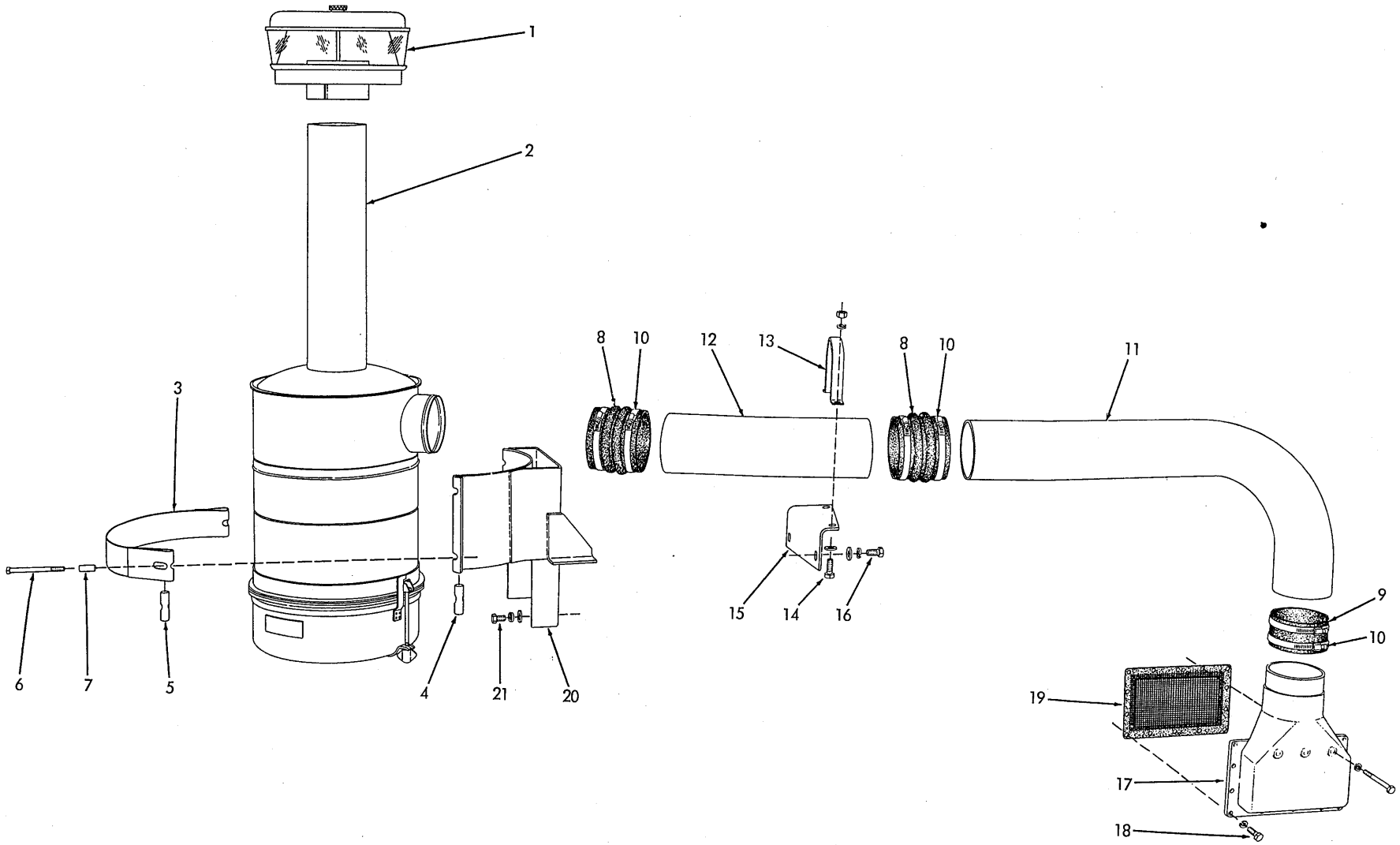
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082524 | 1 | PRE-CLEANER ASSEMBLY, air (See page 223 for parts) |
| 2 | 082526 | 1 | CLEANER ASSEMBLY, air (See page 223 for parts) |
| 3 | 080948 | 1 | HOSE, rear |
| 4 | 921919 | 4 | CLAMP, hose (4-5/8" to 7-1/4" diam.) |
| 5 | 084350 | 1 | TUBE, air |
| 6 | 081042 | 1 | HOSE, front |
| 7 | 081001 | 1 | HOUSING, air inlet |
| | 906696 | 3 | CAPSCREW, 3/8"NC x 3-3/4" |
| 8 | 013058 | 11 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 14 | LOCKWASHER, 3/8" |
| 9 | 4369803 | 1 | GASKET, air inlet housing (Includes screen) |
| 10 | 040570 | 4 | CAPSCREW, mounting band (3/8"NC x 4-1/4") |
| 11 | 053667 | 4 | SPACER, mounting band capscrew |
| 12 | 082206 | 2 | BAND, air cleaner mounting |
| 13 | 056099 | 4 | PIN, mounting band (plain hole) |
| 14 | 056100 | 4 | PIN, mounting band (threaded hole) |




AIR CLEANER (Oil-bath)(Second type HD21A,F) T-18076

USAGE: Standard equipment on Model HD21A,F tractors serial No. 9001 and up. See page 224 for special dry-type cleaner

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082524 | 1 | PRE-CLEANER ASSEMBLY, air (See page 223 for parts) |
| 2 | 092933 | 1 | CLEANER ASSEMBLY, air (See page 223 for parts)(If for tractors prior to #11861, excluding #11852 thru #11855 also order items 11 and 12) |
| 3 | 082206 | 2 | BAND, air cleaner mounting |
| 4 | 056100 | 4 | PIN, mounting band (threaded hole) |
| 5 | 056099 | 4 | PIN, mounting band (plain hole) |
| 6 | 082937 | 4 | CAPSCREW, mounting band (3/8"NC x 4-1/2") |
| 7 | 053667 | 4 | SPACER, mounting band capscrew |
| 8 | 096947 | 5 | RING, hose expanding |
| 9 | 631090 | 1 | HOSE ASSEMBLY (Includes item 8) |
| 10 | 921919 | 2 | CLAMP, hose (4-5/8" to 7-1/4" diam.) |
| 11 | 620017 | 1 | TUBE, air inlet (18-1/2" long)(Effective on HD21A with tractor #11861, including #11852 thru #11855) |
| | 631538 | 1 | TUBE, air inlet (7-1/4" long)(Effective on HD21F with tractor #11861) |
| 12 | 921919 | 1 | CLAMP, air inlet tube (4-5/8" to 7-1/4" diam.)(Effective with tractor #11861, including #11852 thru #11855) |



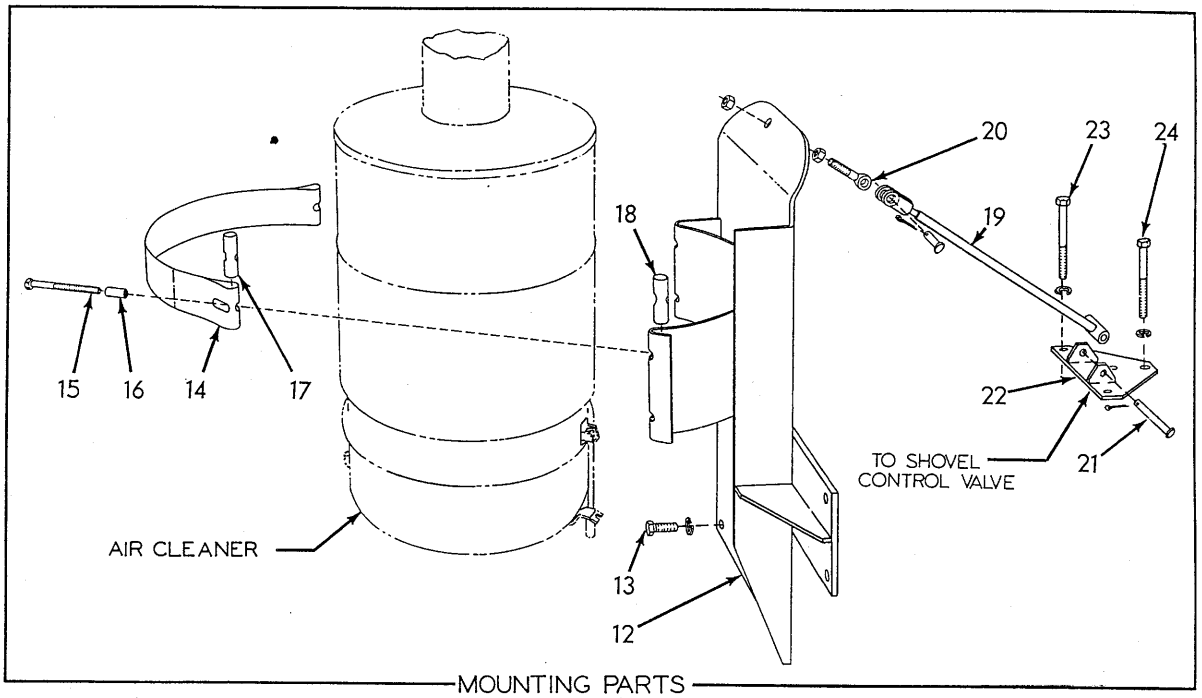

AIR CLEANER (Oil-bath)(First type HD21G)

T-18155

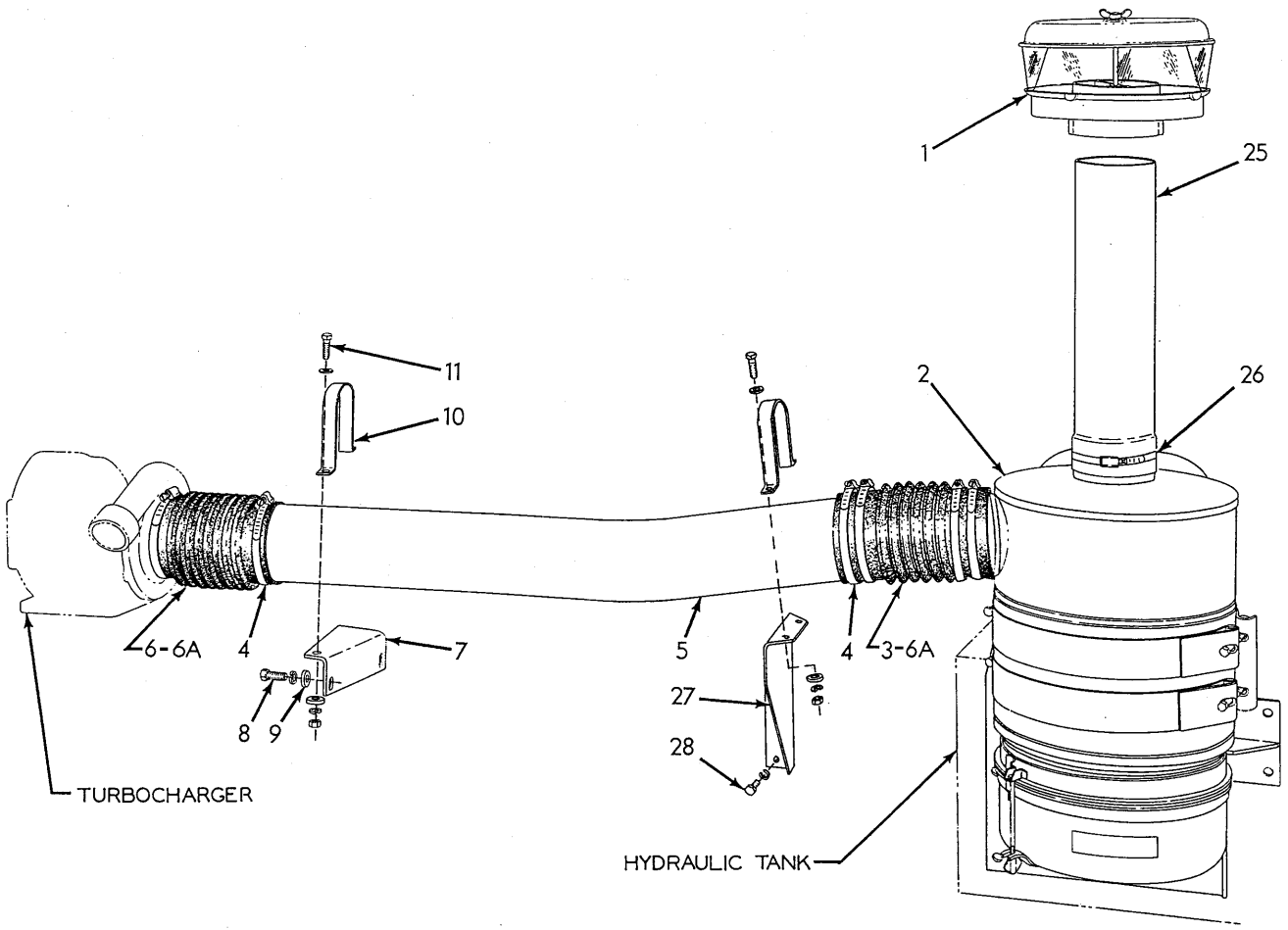
# AIR CLEANER (Oil-bath)

USAGE: Model HD21G tractors prior to serial No. 9001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082524 | 1 | PRE-CLEANER ASSEMBLY, air (See page 223 for parts) |
| 2 | 082526 | 1 | CLEANER ASSEMBLY, air (See page 223 for parts) |
| 3 | 082206 | 2 | BAND, mounting |
| 4 | 056100 | 4 | PIN, mounting band (threaded hole) |
| 5 | 056099 | 4 | PIN, mounting band (plain hole) |
| 6 | 040570 | 4 | CAPSCREW, mounting band (3/8"NC x 4-1/4") |
| 7 | 053667 | 4 | SPACER, mounting band capscrew |
| 8 | 089948 | 2 | HOSE, center and rear |
| 9 | 081042 | 1 | HOSE, front |
| 10 | 921919 | 6 | CLAMP, hose (4-5/8" to 7-1/4" diam.) |
| 11 | 089663 | 1 | TUBE, air, front |
| 12 | 084360 | 1 | TUBE, air, rear |
| 13 | 084362 | 1 | STRAP, rear air tube |
| 14 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 15 | 084361 | 1 | ANGLE, air tube strap |
| 16 | 070467 | 2 | CAPSCREW, 1/2"NF x 1" |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| 17 | 081001 | 1 | HOUSING, air inlet |
| | 906696 | 3 | CAPSCREW, 3/8"NC x 3-3/4" |
| 18 | 013058 | 11 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 14 | LOCKWASHER, 3/8" |
| 19 | 4369803 | 1 | GASKET, air inlet housing (Includes screen) |
| 20 | 084440 | 1 | BRACKET, supporting |
| 21 | 067480 | 5 | CAPSCREW, 1/2"NF x 3/4" |
| | 910244 | 5 | WASHER, plain, SAE std., 1/2" |




MOUNTING PARTS




AIR CLEANER (Oil-bath)(Second type HD21G)

T-18154

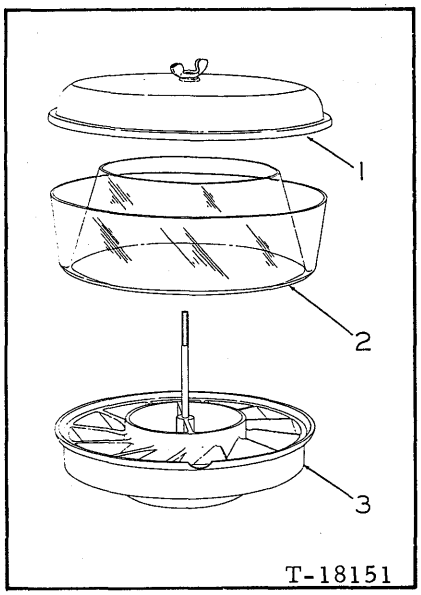
# AIR CLEANER (Oil-bath)

USAGE: Standard equipment on Model HD21G tractors serial No. 9001 and up. See page 227 for special dry-type cleaner.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082524 | 1 | PRE-CLEANER ASSEMBLY, air (See page 223 for parts) |
| 2 | 092933 | 1 | CLEANER ASSEMBLY, air (See page 223 for parts)(If for tractors prior to #11725 including #11798 also order items 25 and 26) |
| 3 | 094084 | 1 | HOSE, rear (Straight type)(Used prior to tractor #11725 including #11798) |
| | 631090 | 1 | HOSE ASSEMBLY, rear (Corrugated type. Includes item 6A)(Effective with tractor #11725, excluding #11798) |
| 4 | 921919 | 6 | CLAMP, hose |
| 5 | 093600 | 1 | TUBE, air (Used prior to tractor #12012) |
| | 629290 | 1 | TUBE, air (Effective with tractor #12012) |
| 6 | 631090 | 1 | HOSE ASSEMBLY, front (Includes item 6A) |
| 6A | 096947 | 10 | RING, hose expanding |
| 7 | 093604 | 1 | ANGLE, air tube strap |
| 8 | 614478 | 2 | CAPSCREW, 1/2"NF x 1-3/8" |
| 9 | 064531 | 2 | WASHER, plain |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 10 | 093603 | 1 | STRAP, air tube (1 additional used effective with tractor #11725, excluding #11798) |
| 11 | 614478 | 2 | CAPSCREW, 1/2"NF x 1-3/8" (2 additional used effective with tractor #11725, excluding #11798) |
| | 900818 | 2 | WASHER, plain, U.S. std., 1/2" |
| | 064531 | 2 | WASHER, plain |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 12 | 093602 | 1 | BRACKET, air cleaner mounting (Used prior to tractor #12012) |
| | 629309 | 1 | BRACKET, air cleaner mounting (Effective with tractor #12012) |
| 13 | 070469 | 4 | CAPSCREW, 1/2 "NF x 1-1/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 14 | 082206 | 2 | BAND, mounting |
| 15 | 082937 | 4 | CAPSCREW, mounting band |
| 16 | 053667 | 4 | SPACER, mounting band capscrew |
| 17 | 056099 | 4 | PIN, mounting band (plain hole) |
| 18 | 056100 | 4 | PIN, mounting band (threaded hole) |
| 19 | ------ | 1 | ROD, bracing (Used prior to tractor #12012)(Order one each ROD 623595, PLATE 623592, PIN 053077, CAPSCREW 053037 and PIN 900806; also two CAPSCREWS 053038) |
| | 623595 | 1 | ROD, bracing (Effective with tractor #12012) |

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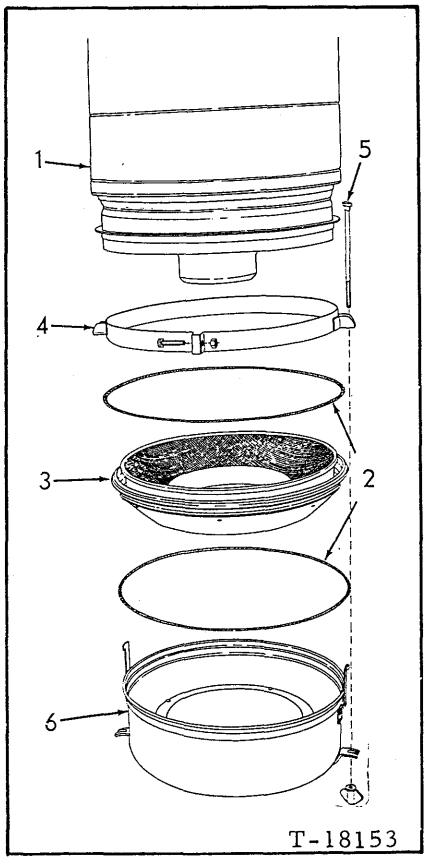
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 20 | 067902 | 1 | EYE-BOLT, bracing rod |
| | 911043 | 2 | NUT, 1/2"NF |
| | 917648 | 1 | PIN, yoke, 1/2" diam. |
| | 900806 | 1 | PIN, cotter, 1/8" x 1" |
| 21 | 053077 | 1 | PIN, bracing rod (Effective with tractor #12012) |
| | 900806 | 1 | PIN, cotter, 1/8" x 1" |
| 22 | 623592 | 1 | PLATE, bracing rod (Effective with tractor #12012) |
| 23 | 053038 | 2 | CAPSCREW, 1/2"NF x 6" |
| 24 | 053037 | 1 | CAPSCREW, 1/2"NF x 5-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 25 | 620017 | 1 | TUBE, air inlet (Effective with tractor #11725, excluding #11798) |
| 26 | 921919 | 1 | CLAMP, air inlet tube (Effective with tractor #11725, excluding #11798) |
| 27 | 621230 | 1 | BRACKET, air tube supporting (Effective with tractor #11725, excluding #11798) |
| 28 | 035525 | 2 | CAPSCREW, 1/2"NF x 1-1/8" |
| | 904208 | 2 | LOCKWASHER, 1/2" |




## AIR PRE-CLEANER ASSEMBLY 082524

USAGE: See pages 216, 217, 219 and 221

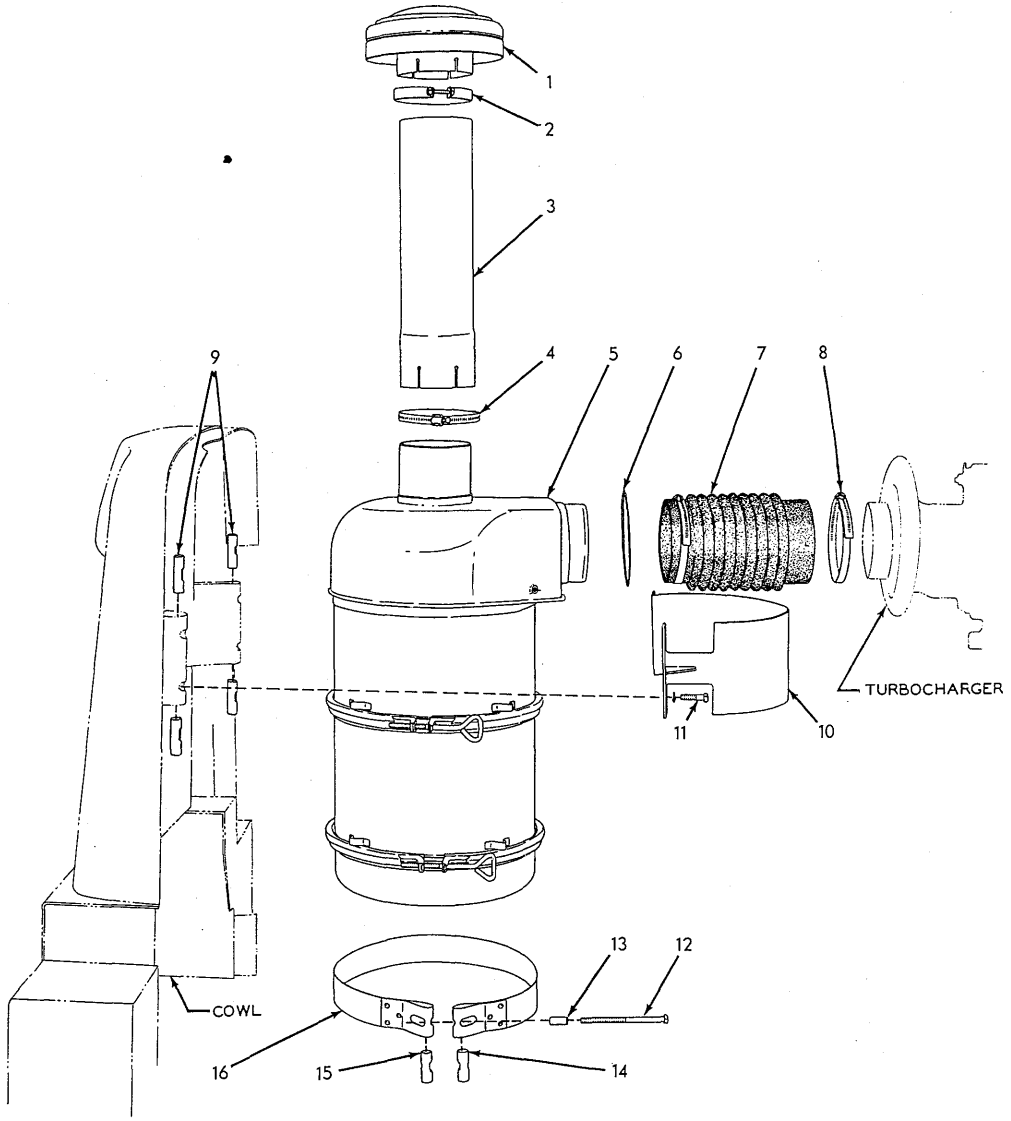
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082661 | 1 | COVER ASSEMBLY (Includes wing nut) |
| 2 | 082662 | 1 | BODY |
| 3 | 082663 | 1 | SLEEVE ASSEMBLY (Includes stud) |




## AIR CLEANER PARTS

USAGE: See pages 216, 217, 219 and 221

| | | | |
|---|---|---|---|
| 1 | ------ | 1 | BODY (Not serviced separately) |
| 2 | 082626 | 2 | GASKET, oil cup and baffle |
| 3 | 082525 | 1 | BAFFLE, oil |
| 4 | 094135 | 1 | BAND ASSEMBLY, oil cup retaining (Includes bolt and nut)(Effective with tractor #9001) |
| 5 | 081057 | 2 | BOLT, oil cup retaining |
| | 056863 | 2 | NUT, wing |
| 6 | 082627 | 1 | CUP, oil |




T-27500

AIR CLEANER (Dry-type)(HD21A,F)

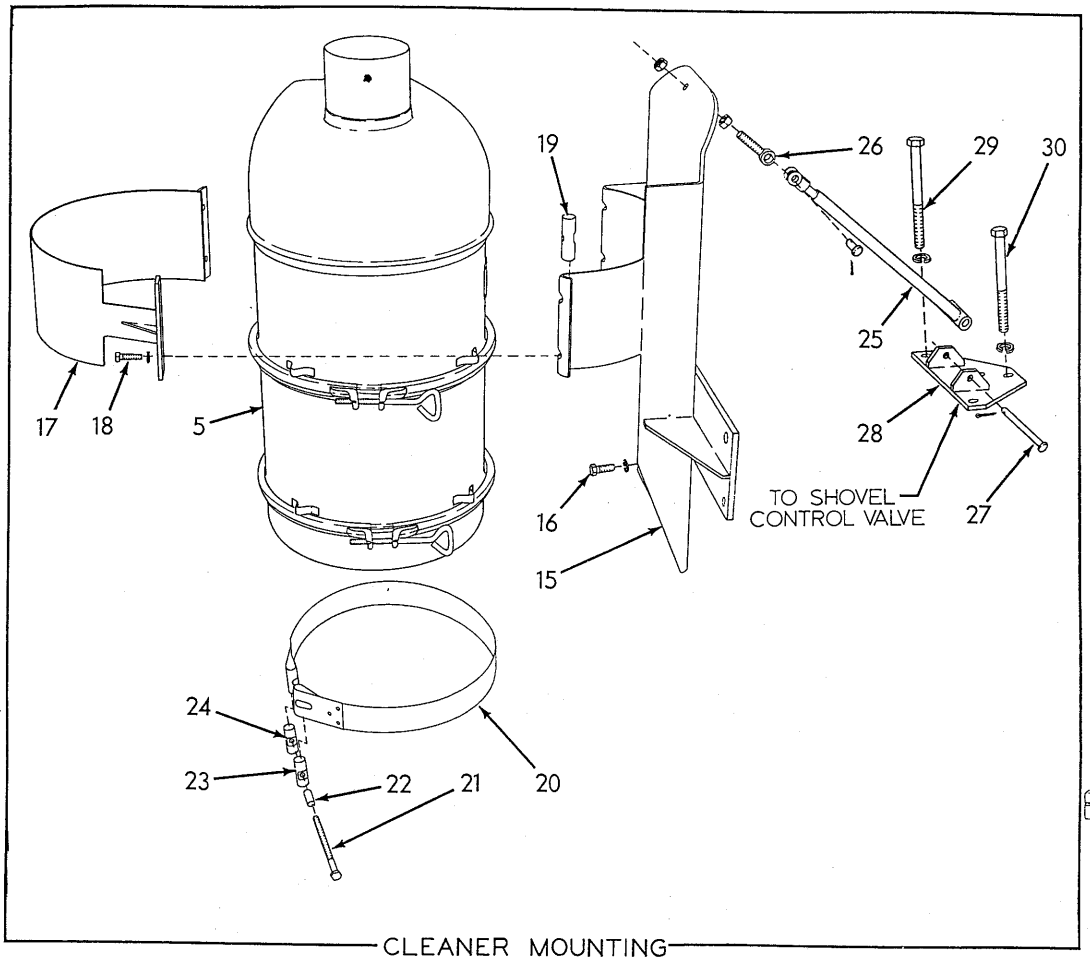
USAGE: Special equipment. Applicable to Model HD21A,F,tractors serial No. 11001 and up.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 098497 | 1 | CAP, rain (Includes item 2) |
| 2 | 620737 | 1 | CLAMP ASSEMBLY, rain cap (Includes bolt and nut) |
| 3 | 620017 | 1 | TUBE, air inlet (18-1/2" long)(Model HD21A) |
| | 631538 | 1 | TUBE, air inlet (7-1/4" long)(Model HD21F) |
| 4 | 921919 | 1 | CLAMP, air inlet tube |
| 5 | 620003 | 1 | CLEANER ASSEMBLY, air (See page 228 for parts) |

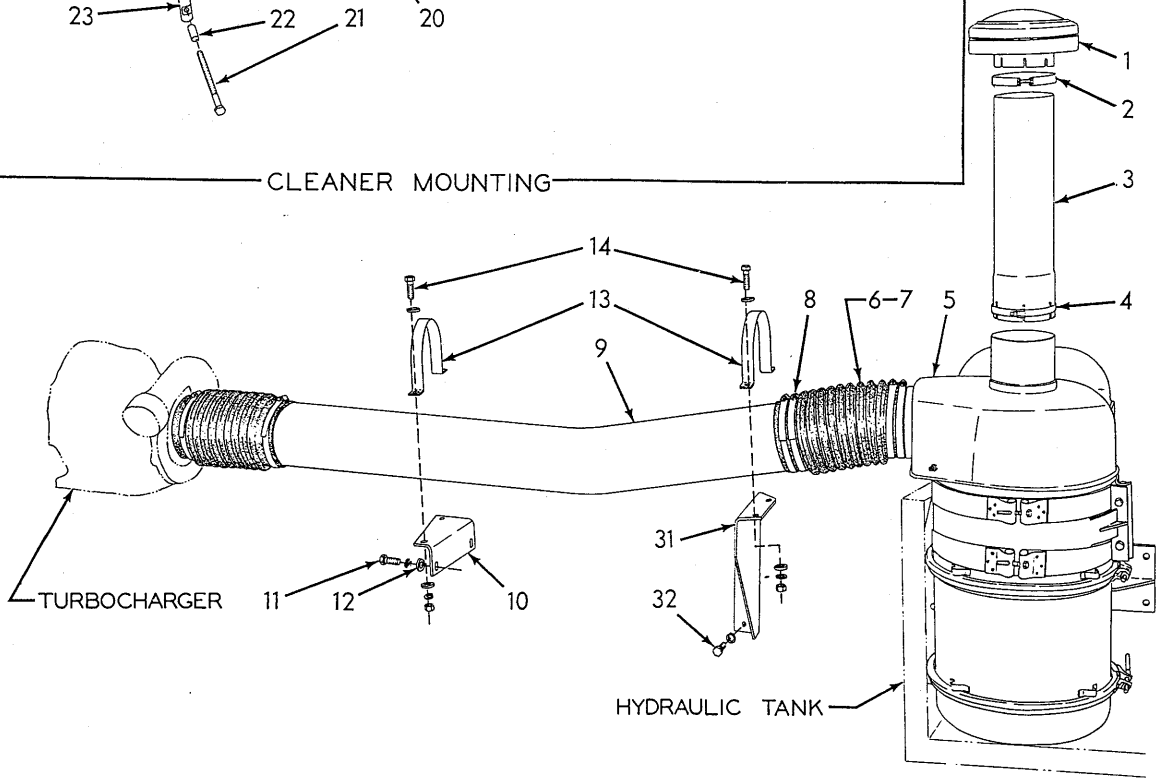
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## AIR CLEANER (Dry-type)(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 6 | 096947 | 5 | RING, hose expanding |
| 7 | 631090 | 1 | HOSE ASSEMBLY (Includes item 6) |
| 8 | 921919 | 2 | CLAMP, air cleaner hose |
| 9 | 056100 | 4 | PIN, air cleaner saddle |
| 10 | 621324 | 1 | SADDLE, air cleaner |
| 11 | 070960 | 4 | CAPSCREW, 3/8"NC x 1-1/2" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 12 | 087159 | 2 | CAPSCREW, mounting band (3/8"NC x 4-1/2") |
| 13 | 053667 | 2 | SPACER, mounting band capscrew |
| 14 | 081795 | 2 | PIN, mounting band (plain hole) |
| 15 | 081796 | 2 | PIN, mounting band (threaded hole) |
| 16 | 080818 | 2 | BAND, air cleaner mounting |




CLEANER MOUNTING



# AIR CLEANER (Dry Type)

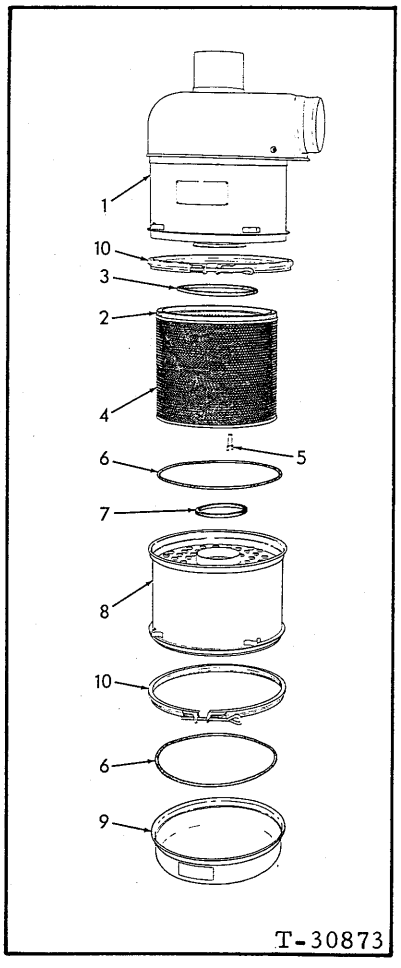
USAGE: Special equipment. Applicable to Model HD21G tractors serial No. 11001 and up.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 098497 | 1 | CAP, rain (Includes item 2) |
| 2 | 620737 | 1 | CLAMP ASSEMBLY, rain cap (Includes bolt and nut) |
| 3 | 620017 | 1 | TUBE, air inlet |
| 4 | 921919 | 1 | CLAMP, air inlet tube |
| 5 | 620003 | 1 | CLEANER ASSEMBLY, air (See page 228 for parts) |
| 6 | 631090 | 2 | HOSE ASSEMBLY, front (Includes item 7) |
| 7 | 096947 | 10 | RING, hose expanding |
| 8 | 921919 | 6 | CLAMP, hose |
| 9 | 093600 | 1 | TUBE, air (Used prior to tractor #12012) |
| | 629290 | 1 | TUBE, air (Effective with tractor #12012) |
| 10 | 093604 | 1 | ANGLE, air tube strap |
| 11 | 614478 | 2 | CAPSCREW, 1/2"NF x 1-3/8" |
| 12 | 064531 | 2 | WASHER, plain |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 13 | 093603 | 2 | STRAP, air tube |
| 14 | 614478 | 4 | CAPSCREW, 1/2"NF x 1-3/8" |
| | 900818 | 4 | WASHER, plain, U.S. std., 1/2" |
| | 064531 | 4 | WASHER, plain |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 15 | 093602 | 1 | BRACKET, air cleaner mounting (Used prior to tractor #12012) |
| | 629309 | 1 | BRACKET, air cleaner mounting (Effective with tractor #12012) |
| 16 | 070469 | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 17 | 621324 | 1 | SADDLE, air cleaner |
| 18 | 070960 | 4 | CAPSCREW, 3/8"NC x 1-1/2" |
| | 904206 | 4 | LOCKWASHER 3/8" |
| 19 | 056100 | 4 | PIN, air cleaner saddle |
| 20 | 080818 | 2 | BAND, mounting |
| 21 | 087159 | 2 | CAPSCREW, mounting band |
| 22 | 053667 | 2 | SPACER, mounting band capscrew |
| 23 | 081795 | 2 | PIN, mounting band (plain hole) |
| 24 | 081796 | 2 | PIN, mounting band (threaded hole) |
| 25 | ------ | 1 | ROD, bracing (Used prior to tractor #12012)(Order one each ROD 623595, PLATE 623592, PIN 053077, CAPSCREW 053037 and PIN 900806; also two CAPSCREWS 053038) |
| | 623595 | 1 | ROD, bracing (Effective with tractor #12012) |

(Continued)

## AIR CLEANER (Dry-type)(Continued)

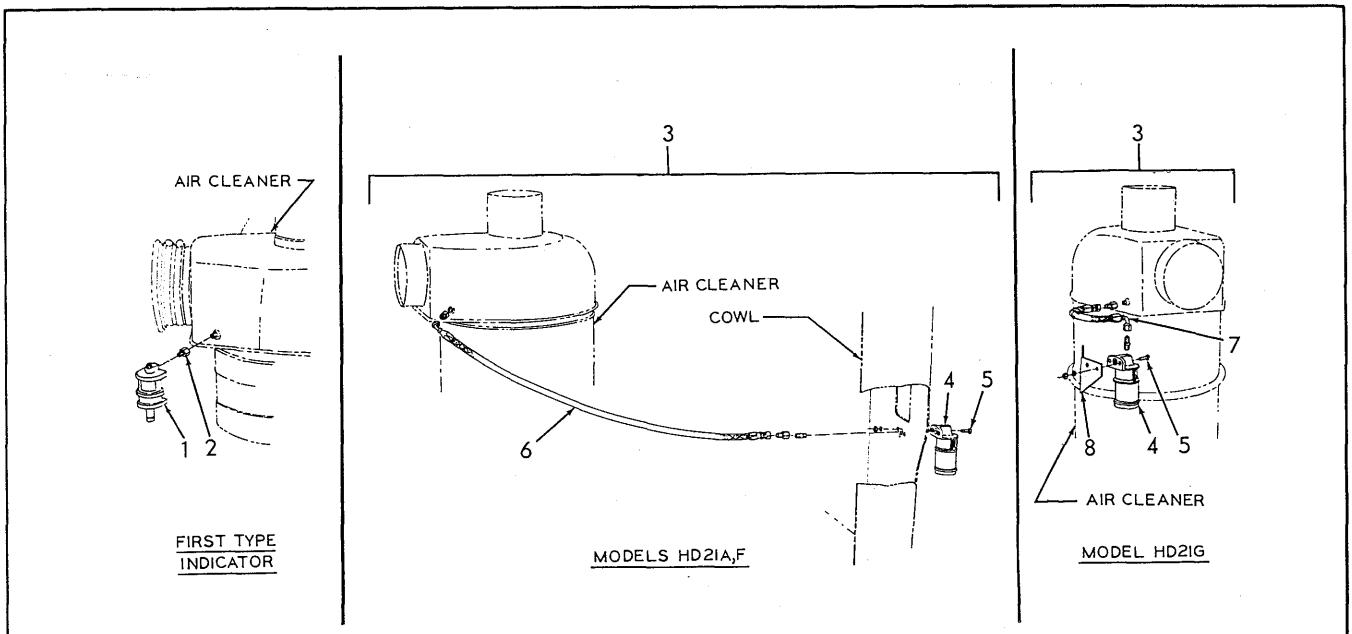
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 26 | 067902 | 1 | EYE-BOLT, bracing rod |
| | 911043 | 2 | NUT, 1/2"NF |
| | 917648 | 1 | PIN, yoke, 1/2" diam. |
| | 900806 | 1 | PIN, cotter, 1/8" x 1" |
| 27 | 053077 | 1 | PIN, bracing rod (Effective with tractor #12012) |
| | 900806 | 1 | PIN, cotter, 1/8" x 1" |
| 28 | 623592 | 1 | PLATE, bracing rod (Effective with tractor #12012) |
| 29 | 053038 | 2 | CAPSCREW, 1/2"NF x 6" |
| 30 | 053037 | 1 | CAPSCREW, 1/2"NF x 5-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 31 | 621230 | 1 | BRACKET, air tube supporting |
| 32 | 035525 | 2 | CAPSCREW, 1/2"NF x 1-1/8" |
| | 904208 | 2 | LOCKWASHER, 1/2" |




## AIR CLEANER ASSEMBLY 620003

USAGE: See pages 224 and 227

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 620724 | 1 | BODY, upper |
| 2 | ------ | 1 | GASKET, filter element, upper (Not serviced separately) |
| 3 | ------ | 1 | GASKET, filter element, lower (Not serviced separately) |
| 4 | 620717 | 1 | ELEMENT ASSEMBLY, filter (Includes items 2 and 3) |
| 5 | 620719 | 3 | NUT, wing, element retaining |
| 6 | 620721 | 2 | GASKET, air pre-cleaner, outer |
| 7 | 620722 | 1 | GASKET, air pre-cleaner, inner |
| 8 | 620723 | 1 | PRE-CLEANER ASSEMBLY, air (Serviced only as a unit) |
| 9 | 620718 | 1 | CUP, dust |
| 10 | 621530 | 2 | CLAMP ASSEMBLY (Includes tightening screw) |

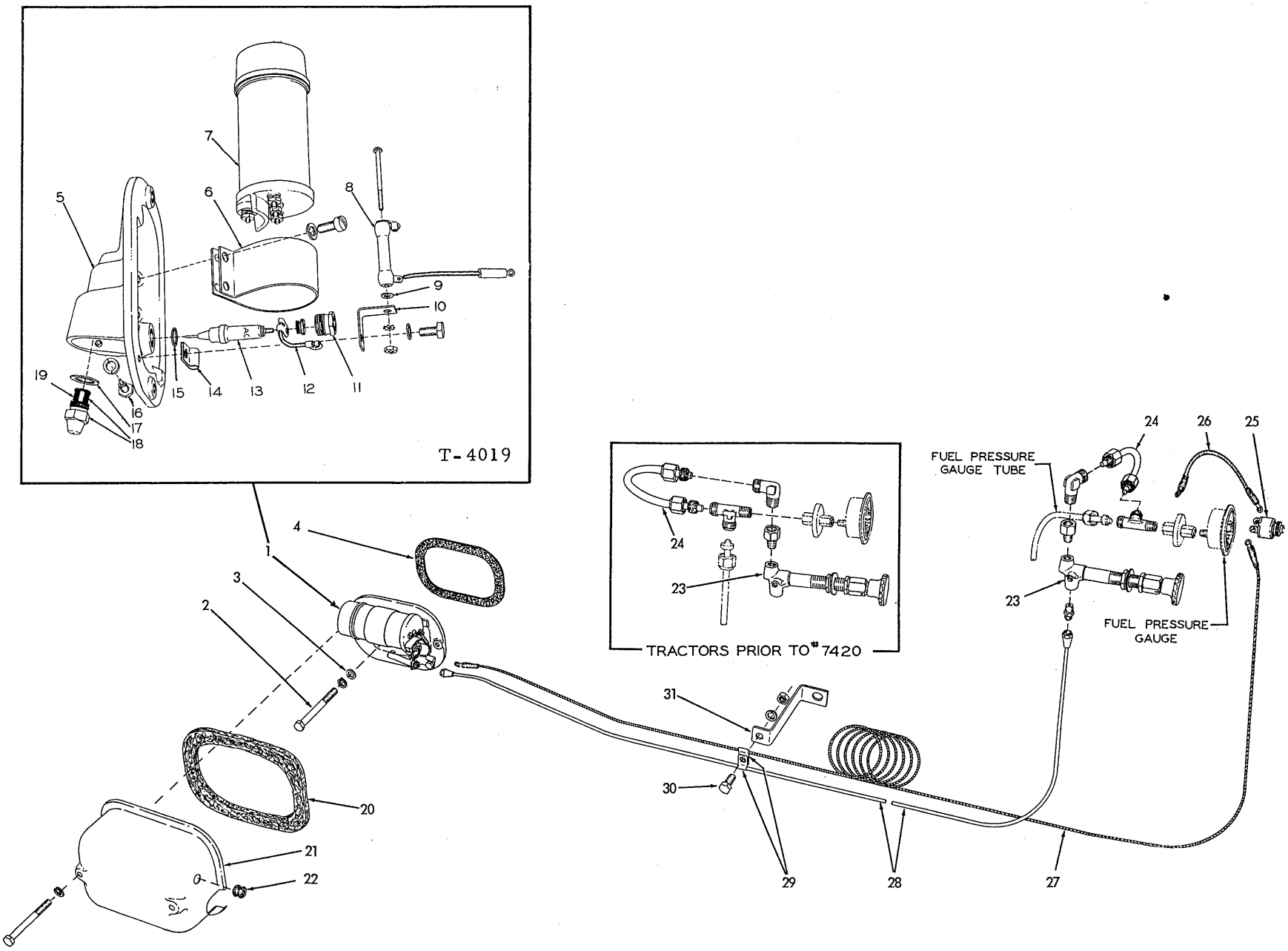



AIR RESTRICTION INDICATOR

USAGE: Special equipment. For use with dry-type Air Cleaner only

* First type. Mounted on Air Cleaner
** Second type. Remote-mounted

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 1 | ------ | 1 | - | INDICATOR ASSEMBLY (Order item 3) | |
| 2 | 917032 | 1 | - | ADAPTER, extension, 1/8"NPT male and female) | |
| 3 | 631961 | - | 1 | INDICATOR KIT (Consists of items 4 thru 6)(Models HD21A, F) | |
| 3 | 632048 | - | 1 | INDICATOR KIT (Consists of items 4, 5, 7 and 8). (Model HD21G only) | |
| 4 | 631564 | - | 1 | INDICATOR only | |
| 5 | 034964 | - | 2 | CAPSCREW, 1/4"NC x 3/4" | Models HD21A, F |
| 5 | 904204 | - | 2 | LOCKWASHER, 1/4" | Models HD21A, F |
| 5 | 911024 | - | 2 | NUT, 1/4"NC | Models HD21A, F |
| 5 | 912789 | - | 2 | CAPSCREW, 1/4"NF x 3/4" | Model HD21G |
| 5 | 904204 | - | 2 | LOCKWASHER, 1/4" | Model HD21G |
| 5 | 911040 | - | 2 | NUT, 1/4"NF | Model HD21G |
| 6 | 629184 | - | 1 | HOSE ASSEMBLY (Models HD21A, F)(See page 6 for parts) | |
| | 919174 | - | 2 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT female | |
| | 904273 | - | 1 | NIPPLE, pipe, 1/8"NPT x 1" | |
| 7 | 632049 | - | 1 | HOSE ASSEMBLY (Model HD21G)(See page 6 for parts) | |
| | 919171 | - | 1 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male | |
| | 919174 | - | 1 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT female | |
| 8 | 632050 | - | 1 | BRACKET, mounting (Model HD21G only) | |



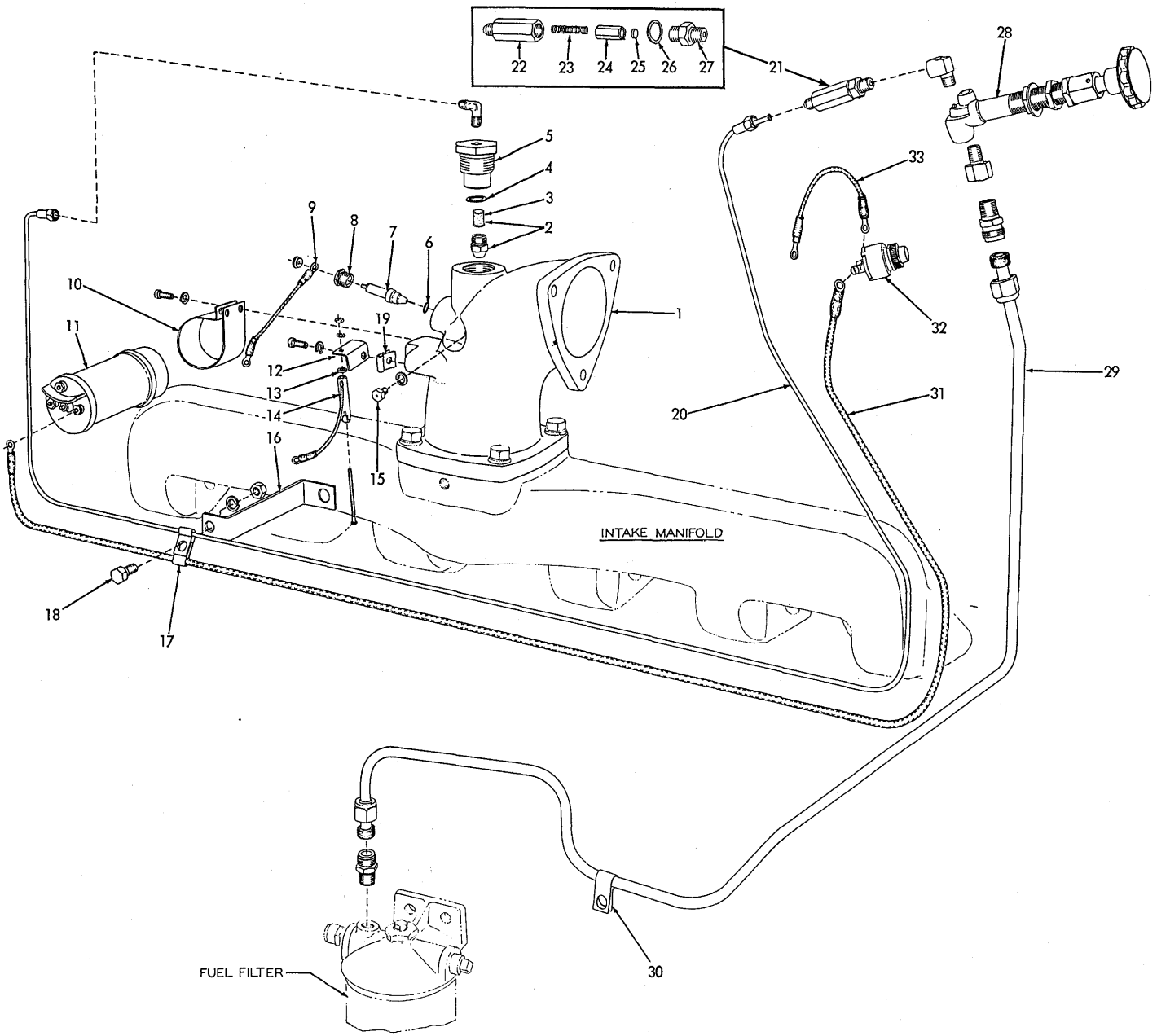

ENGINE AIR HEATER (First type)

## ENGINE AIR HEATER (First type)

USAGE: Optional equipment in place of Engine Primer on tractors prior to serial No. 9001

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 075471 | 1 | HEATER ASSEMBLY, engine air (Consists of items 5 thru 19) |
| 2 | 082013 | 1 | CAPSCREW, 3/8"NC x 3-1/4" |
| 3 | 040400 | 1 | GASKET (copper-asbestos) |
| | 911115 | 1 | WASHER, plain, SAE std., 3/8" |
| 4 | 5150020 | 1 | GASKET, air heater to manifold |
| 5 | 5153385 | 1 | BODY, air heater |
| 6 | 631199 | 1 | BRACKET, ignition coil mounting |
| | 912226 | 2 | SCREW, machine, fil-hd., 1/4"NC x 5/8" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| 7 | 097026 | 1 | COIL, ignition (Serviced only as a unit) |
| 8 | 630830 | 1 | RESISTOR |
| | 915922 | 1 | SCREW, machine, #8-32 x 2-1/4" |
| | 907154 | 1 | NUT, #8-32 |
| | 915923 | 1 | WASHER, external teeth, #8 |
| 9 | 631198 | 1 | WASHER, insulating |
| 10 | 630829 | 1 | BRACKET, resistor mounting |
| | 906692 | 1 | CAPSCREW, 1/4"NC x 3/8" |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| 11 | 630828 | 1 | NUT, insulator retaining |
| 12 | 5154125 | 1 | LEAD, coil to insulator (high tension) |
| 13 | 631226 | 1 | INSULATOR PACKAGE (Includes terminal nut and item 15) |
| 14 | 238136 | 1 | CLIP, fuel tube (3/16" diam., 9/32" bolt-hole) |
| 15 | 631566 | 1 | GASKET, insulator |
| 16 | 630827 | 1 | SCREW ASSEMBLY, electrode (1 screw, 1 electrode) |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| 17 | 630787 | 1 | WASHER, spray nozzle |
| 18 | 631224 | 1 | NOZZLE ASSEMBLY, spray (Includes item 19) |
| 19 | 631225 | 1 | STRAINER ASSEMBLY, spray nozzle (1 body and 1 screen) |
| 20 | 5154066 | 1 | GASKET, air heater cover (felt) |
| 21 | 5158071 | 1 | COVER, air heater |
| | 913189 | 2 | CAPSCREW, 5/16"NC x 2-1/2" |
| | 904205 | 2 | LOCKWASHER, 5/16" |
| 22 | 023176 | 1 | GROMMET, air heater cover (rubber) |
| 23 | 092160 | 1 | PUMP ASSEMBLY (See page 240 for parts) |

(Continued)




ENGINE AIR HEATER (Second type)

T-18083

## ENGINE AIR HEATER (First type)(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 24 | 083249 | 1 | TUBE, fuel supply (Used prior to tractor #7420) |
| | 087425 | 1 | TUBE, fuel supply (Effective with tractor #7420) |
| | 918325 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915369 | 1 | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| | 915859 | 1 | TEE, service, Sealastic, 1/4"NPT male |
| | 910856 | 1 | ADAPTER, reducing, 1/4"NPT female to 1/8"NPT male |
| 25 | 031337 | 1 | SWITCH, push button |
| 26 | 050770 | 1 | CABLE, air heater switch to light switch (7" long) |
| 27 | 081014 | 1 | CABLE, switch to air heater (76" long) |
| 28 | 051191 | 1 | TUBE ASSEMBLY, pump to heater (Includes 2 NUTS 913676) |
| | 913676 | 2 | NUT, flare type, long, 3/16" tube |
| | 910905 | 1 | CONNECTOR, flare type, 3/16" tube, 1/8"NPT male |
| | 910268 | 1 | ELBOW, flare type, 3/16" tube, 1/8"NPT male |
| 29 | 200479 | 7 | CLIP, pump tube and cable (3/16" diam., 13/32" bolt-hole) |
| 30 | 036032 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| 30 | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 31 | 083248 | 2 | BRACKET, clip attaching |

## ENGINE AIR HEATER (Second type)

USAGE: Optional equipment in place of Engine Primer on tractors serial No. 9001 thru No. 11000.

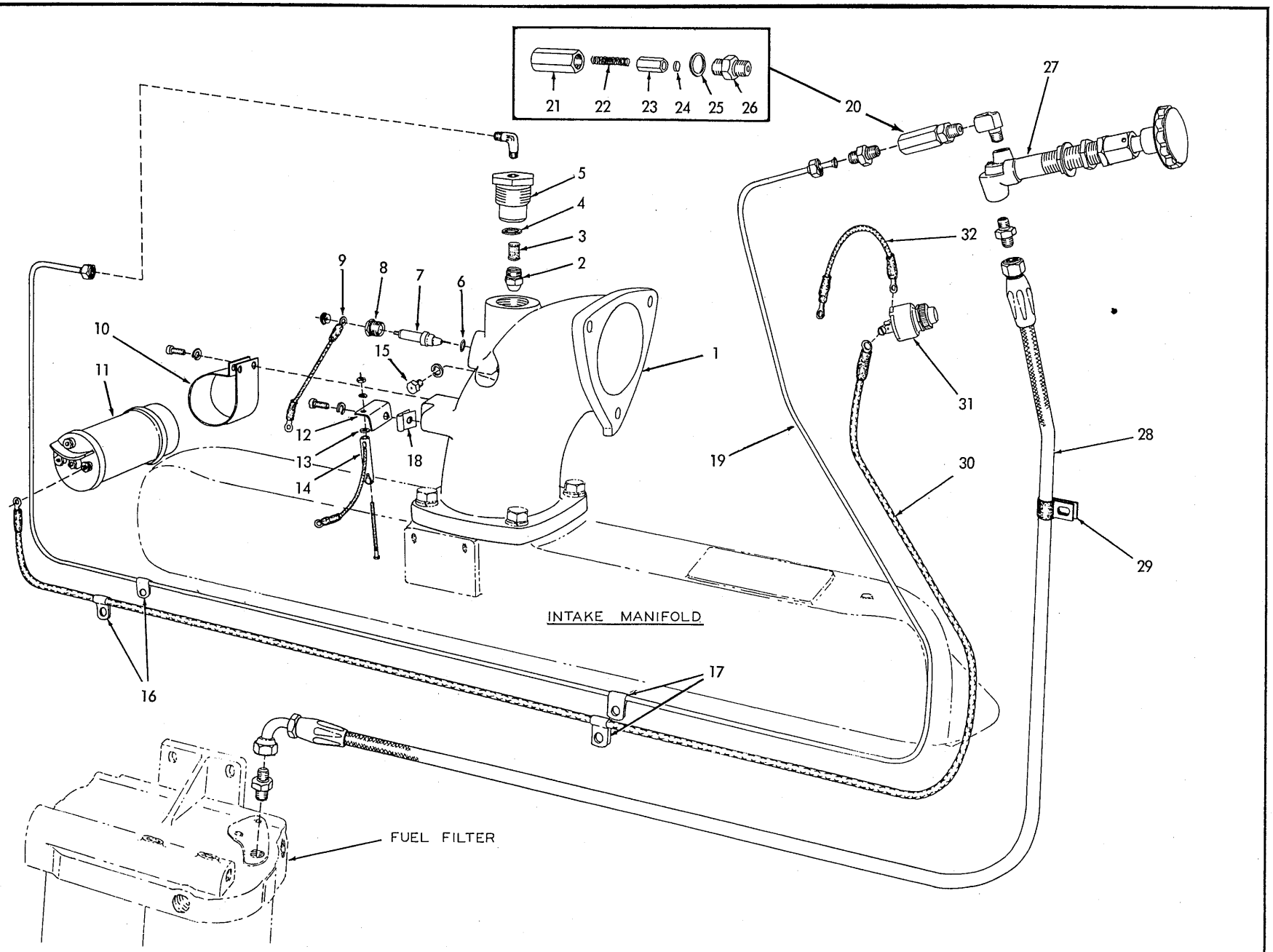
| | | | |
|---|---|---|---|
| 1 | 093370 | 1 | ELBOW, air intake (Replaces standard ELBOW 4374768) |
| 2 | 631224 | 1 | NOZZLE ASSEMBLY, spray (Includes item 3) |
| 3 | 631225 | 1 | STRAINER ASSEMBLY, spray nozzle (1 body and 1 screen) |
| 4 | 630787 | 1 | WASHER, spray nozzle |
| 5 | 088038 | 1 | BUSHING, spray nozzle |
| 6 | 631566 | 1 | GASKET, insulator |
| 7 | 631266 | 1 | INSULATOR PACKAGE (Includes terminal nut and item 6) |
| 8 | 630828 | 1 | NUT, insulator retaining |
| 9 | 095860 | 1 | CABLE, coil to insulator |
| 10 | 631199 | 1 | BRACKET, ignition coil mounting |
| | 912226 | 2 | SCREW, machine, fil-hd., 1/4"NC x 5/8" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| 11 | 097026 | 1 | COIL, ignition (Serviced only as a unit) |

(Continued)

## ENGINE AIR HEATER (Second type) (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 12 | 644133 | 1 | BRACKET, resistor mounting |
| | 912226 | 1 | SCREW, machine, fil-hd., 1/4"NC x 5/8" |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| 13 | 631198 | 1 | WASHER, insulating |
| 14 | 630830 | 1 | RESISTOR |
| | 915922 | 1 | SCREW, machine, #8-32 x 2-1/4" |
| | 915923 | 1 | LOCKWASHER, external teeth, #8 |
| | 907154 | 1 | NUT, #8-32 |
| 15 | 630827 | 1 | SCREW ASSEMBLY, electrode (1 screw and 1 electrode) |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| 16 | 083248 | 2 | BRACKET, tube and cable supporting clips |
| 17 | 200479 | 5 | CLIP, supporting, tube and cable (3/16" diam., 13/32" bolt-hole) |
| 18 | 036032 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 19 | 238136 | 1 | CLIP, tube supporting (3/16" diam., 9/32" bolt-hole) |
| 20 | 040756 | 1 | TUBE ASSEMBLY, pump to nozzle (Includes NUTS indented below) |
| | 913676 | 2 | NUT, flare type, long, 3/16" tube |
| | 910268 | 1 | ELBOW, flare type, 3/16" tube, 1/8"NPT male |
| 21 | 092792 | 1 | VALVE ASSEMBLY, check (Consists of items 22 thru 27) |
| 22 | 048607 | 1 | BODY, check valve |
| 23 | 048603 | 1 | SPRING, check valve |
| 24 | 048608 | 1 | PLUNGER, check valve |
| 25 | 048606 | 1 | DISC, check valve |
| 26 | 630713 | 1 | WASHER, check valve |
| 27 | 092793 | 1 | CONNECTOR, check valve |
| 28 | 092160 | 1 | PUMP ASSEMBLY, (See page 240 for parts) |
| | 915399 | 1 | ELBOW, street, 90°, brass, 1/8"NPT |
| 29 | 093001 | 1 | TUBE, fuel filter to pump |
| | 918325 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | RING, Seaslastic, 3/8" tube (Includes ferrule) |
| | 915368 | 2 | CONNECTOR, Seaslatic, 3/8" tube, 1/4"NPT male |
| | 910856 | 1 | ADAPTER, reducing, 1/4"NPT female to 1/8"NPT male |
| 30 | 040796 | 2 | CLIP, pump inlet tube (3/8" diam., 13/32" bolt-hole) |
| 31 | 067177 | 1 | CABLE, switch to coil |
| 32 | 031337 | 1 | SWITCH, push-button |
| 33 | 095860 | 1 | CABLE, air heater switch to light switch |

MEMO




ENGINE AIR HEATER (Third type)

T-19673

## ENGINE AIR HEATER (Third type)

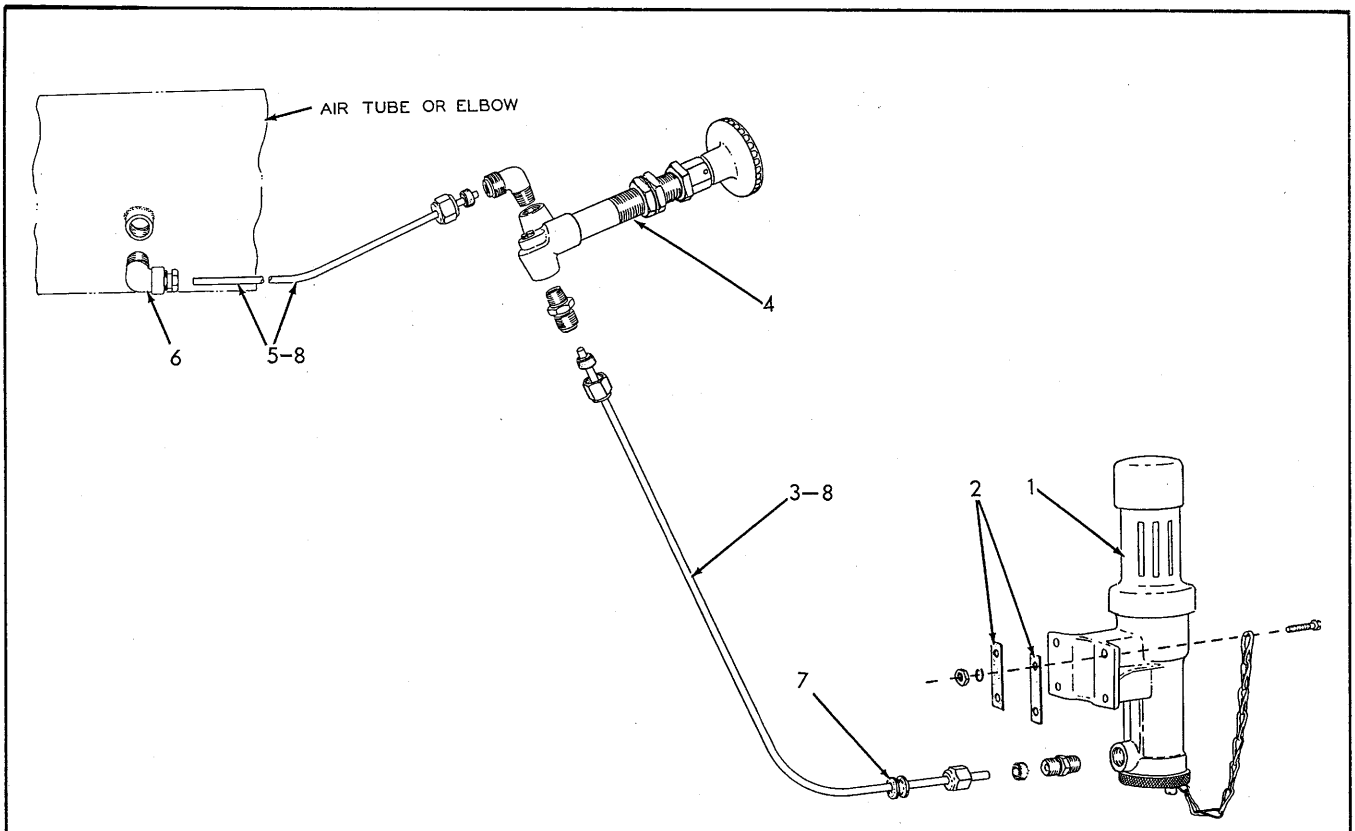
USAGE: Optional equipment in place of Engine Primer on tractors serial No. 11001 and up.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 096519 | 1 | ELBOW, air intake (Used prior to engine #21-3952. Replaces standard ELBOW 4377022) |
| | 633163 | 1 | ELBOW, air intake (Effective with engine #21-3952. Replaces standard ELBOW 4386611) |
| 2 | 631224 | 1 | NOZZLE ASSEMBLY, spray (Includes item 3) |
| 3 | 631225 | 1 | STRAINER ASSEMBLY, spray nozzle (1 body and 1 screen) |
| 4 | 630787 | 1 | WASHER, spray nozzle |
| 5 | 088038 | 1 | BUSHING, spray nozzle |
| 6 | 631566 | 1 | GASKET, insulator |
| 7 | 631226 | 1 | INSULATOR PACKAGE (Includes terminal nut and item 6) |
| 8 | 630828 | 1 | NUT, insulator retaining |
| 9 | 095860 | 1 | CABLE, coil to insulator |
| 10 | 631199 | 1 | BRACKET, ignition coil mounting |
| | 912226 | 2 | SCREW, machine, fil-hd., 1/4"NC x 5/8" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| 11 | 097026 | 1 | COIL, ignition (Serviced only as a unit) |
| 12 | 090682 | 1 | BRACKET, resistor mounting |
| | 912226 | 1 | SCREW, machine, fil-hd., 1/4"NC x 5/8" |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| 13 | 631198 | 1 | WASHER, insulating |
| 14 | 630830 | 1 | RESISTOR |
| | 915922 | 1 | SCREW, machine, #8-32 x 2-1/4" |
| | 915923 | 1 | LOCKWASHER, external teeth, #8 |
| | 907154 | 1 | NUT, #8-32 |
| 15 | 630827 | 1 | SCREW ASSEMBLY, electrode (1 screw and 1 electrode) |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| 16 | 223502 | 2 | CLIP, supporting, tube and cable (3/16" diam., 17/32" bolt-hole) |
| 17 | 073809 | 4 | CLIP, supporting, tube and cable (3/16" diam., 13/32" bolt-hole) |
| 18 | 238136 | 1 | CLIP, tube supporting (3/16" diam., 9/32" bolt-hole) |
| 19 | 094665 | 1 | TUBE ASSEMBLY, pump to nozzle (Includes nuts) |
| | 919204 | 1 | ELBOW, flare type, 3/16" tube, 1/8"NPT male |
| | 919244 | 1 | CONNECTOR, flare type, 3/16" tube, 1/8"NPT male |
| 20 | 094642 | 1 | VALVE ASSEMBLY, check (Consists of item 21 thru 26) |
| 21 | 094890 | 1 | BODY, check valve |
| 22 | 048603 | 1 | SPRING, check valve |
| 23 | 048608 | 1 | PLUNGER, check valve |

(Continued)

## ENGINE AIR HEATER (Third type)(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 24 | 048606 | 1 | DISC, check valve |
| 25 | 630713 | 1 | WASHER, check valve |
| 26 | 092793 | 1 | CONNECTOR, check valve |
| 27 | 092160 | 1 | PUMP ASSEMBLY (See page 240 for parts) |
| | 915399 | 1 | ELBOW, street, 90°, brass, 1/8"NPT |
| 28 | 097207 | 1 | HOSE ASSEMBLY, fuel filter to pump (See page 6 for parts) |
| | 919171 | 2 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male |
| 29 | 094527 | 1 | CLIP, hose supporting |
| 30 | 067177 | 1 | CABLE, switch to coil |
| 31 | 031337 | 1 | SWITCH, push-button } Used prior to tractor #12399 |
| 32 | 050770 | 1 | CABLE, switch to ammeter } |



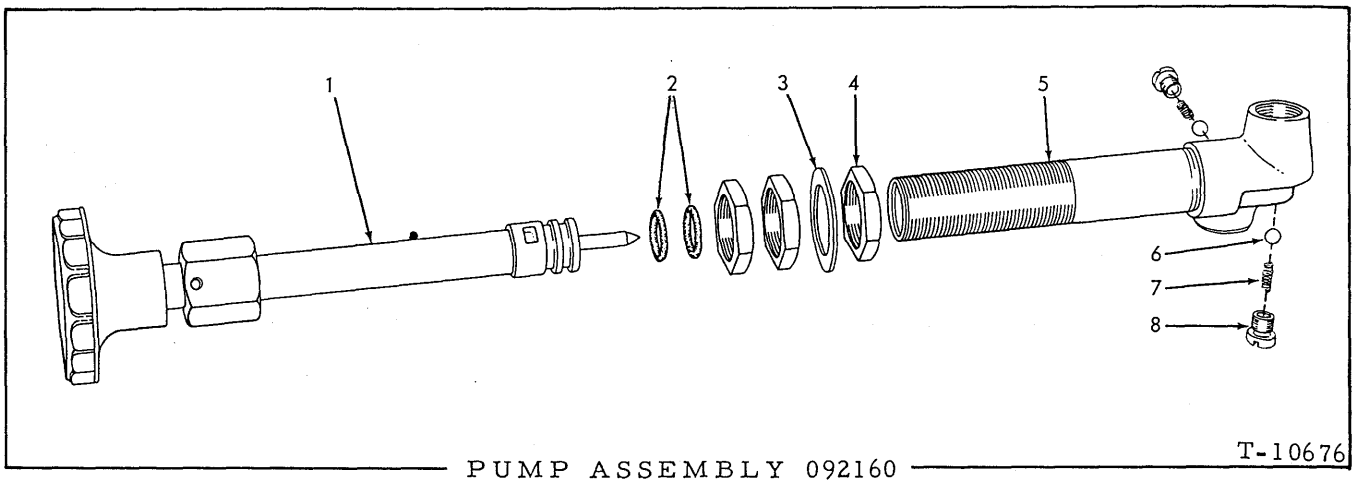

ENGINE PRIMER

# ENGINE PRIMER

USAGE: For all units except those equipped with Air Heater. Standard equipment on tractors prior to serial No. 11743; optional equipment thereafter.

* Tractors prior to serial No. 11001
** Tractors serial No. 11001 thru No. 11742
*** Tractors serial No. 11743 and up

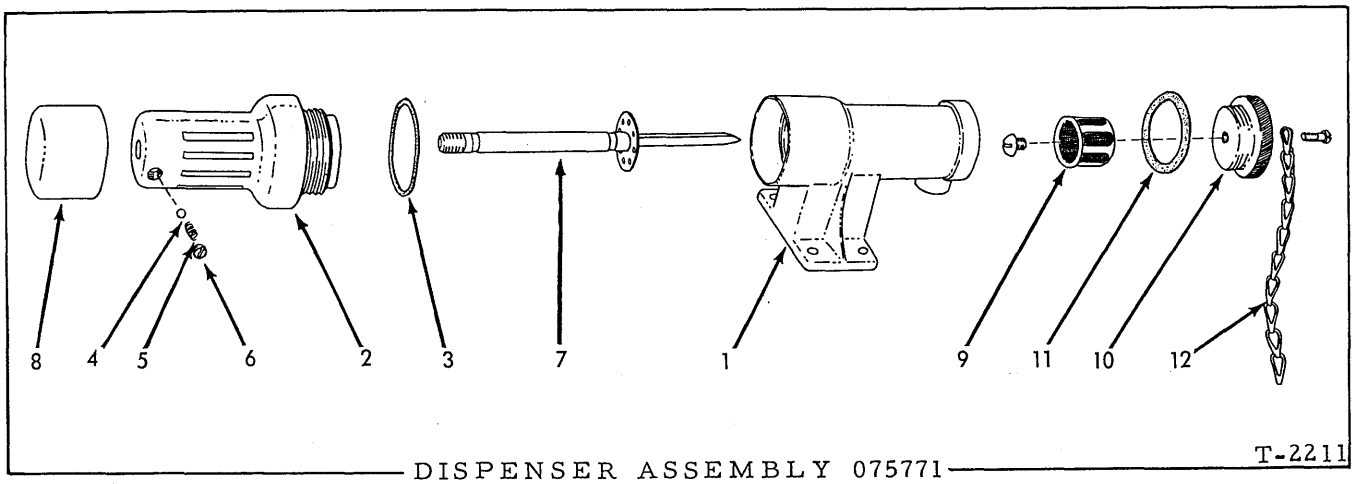
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 075771 | 1 | 1 | 1 | DISPENSER ASSEMBLY, priming fuel (See page 241 for parts) |
| | 913464 | 4 | 4 | 4 | CAPSCREW, #10-24NC x 7/8" |
| | 904203 | 4 | 4 | 4 | LOCKWASHER, #10 |
| | 901310 | 4 | 4 | 4 | NUT, #10-24NC |
| 2 | 066261 | 6 | 6 | 6 | GASKET, dispenser mounting |
| 3 | ------ | 1 | - | 1 | TUBE, dispenser to pump (Order item 8) |
| | 915488 | 2 | - | 2 | NUT, Sealastic, 1/8" tube |
| | 915486 | 2 | - | 2 | RING, Sealastic, 1/8" tube (Includes ferrule) |
| | 915556 | 2 | - | 2 | CONNECTOR, Sealastic, 1/8" tube, 1/8"NPT male |
| | 093706 | - | 1 | - | TUBE ASSEMBLY, dispenser to pump (Flared ends. Includes nuts) |
| | 919094 | - | 2 | - | CONNECTOR, flare type, 1/8" tube, 1/8"NPT male |
| 4 | 092160 | 1 | 1 | 1 | PUMP ASSEMBLY (See page 240 for parts) |
| 5 | ------ | 1 | - | 1 | TUBE, pump discharge (Order item 8) |
| | 915488 | 1 | - | 1 | NUT, Sealastic, 1/8" tube |
| | 915486 | 1 | - | 1 | RING, Sealastic, 1/8" tube |
| | 915557 | 1 | - | 1 | ELBOW, Sealastic, 1/8" tube, 1/8"NPT male |
| | 093715 | - | 1 | - | TUBE, pump discharge (Flared end) |
| | 919100 | - | 1 | - | NUT, flare type, 1/8" tube |
| | 919099 | - | 1 | - | SLEEVE, flare type, 1/8" tube |
| | 919093 | - | 1 | - | ELBOW, flare type, 90°, 1/8" tube, 1/8"NPT male |
| 6 | 066517 | 1 | 1 | 1 | ELBOW ASSEMBLY, fuel spray (Includes nozzle, nut and sleeve. Serviced only as a unit) |
| 7 | 065946 | 1 | - | - | GROMMET, tube protecting |
| | 083987 | - | 2 | 2 | GROMMET, tube protecting (Used only on Model HD21F when equipped with dozer) |
| 8 | 066253 | - | - | - | TUBING, copper, 1/8" O. D., 10 ft. roll (Use as required) |




PUMP ASSEMBLY 092160

USAGE: See pages 231, 233, 237 and 239

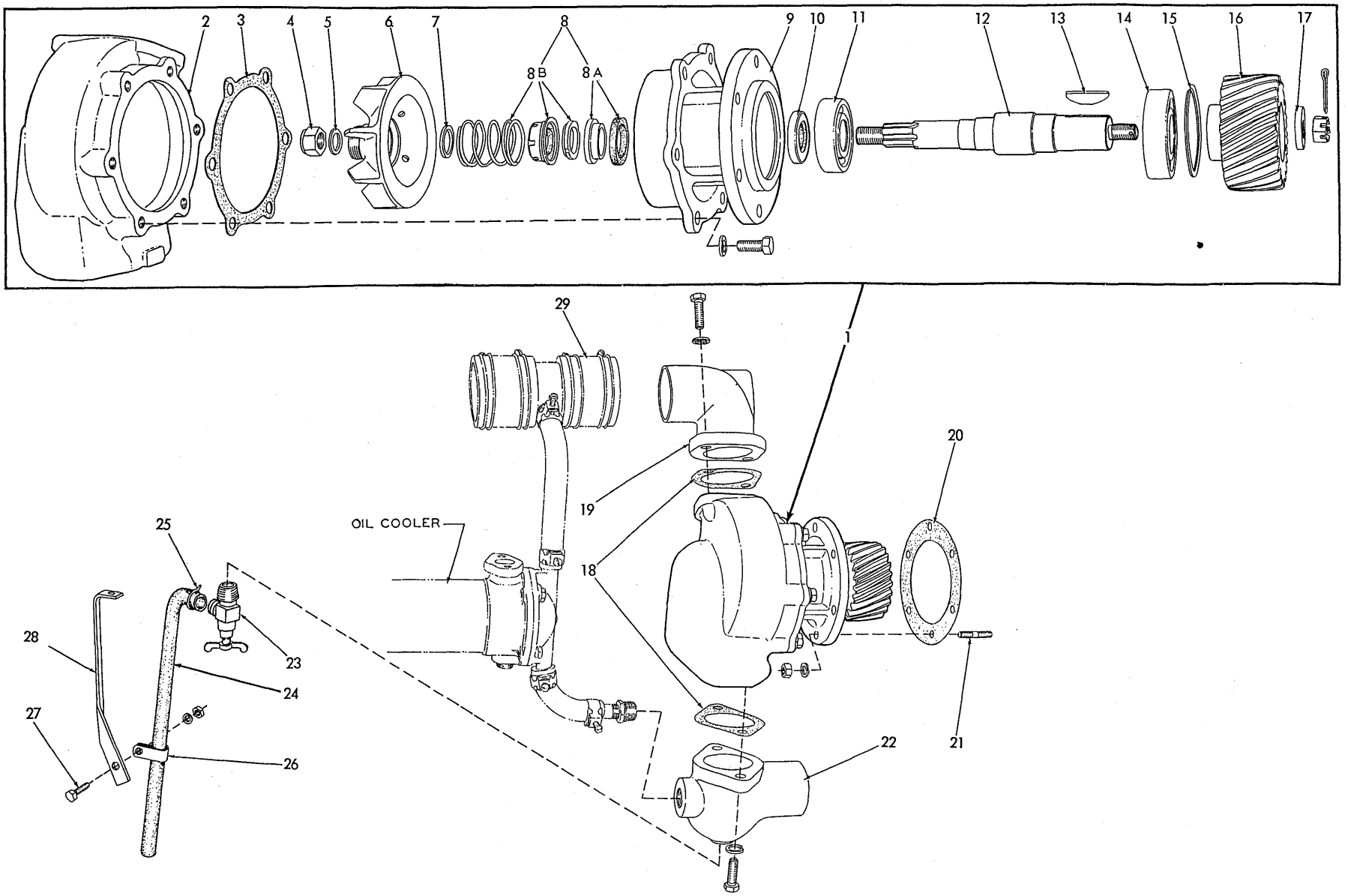
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | PISTON ASSEMBLY (Not serviced separately) |
| 2 | 923560 | 2 | O-RING, plunger |
| 3 | 066873 | 1 | WASHER, mounting |
| 4 | 066872 | 3 | NUT, mounting |
| 5 | ------ | 1 | BARREL ASSEMBLY (Not serviced separately) |
| 6 | 066876 | 2 | BALL, check valve (5/32" diam.) |
| 7 | 066875 | 2 | SPRING, check valve |
| 8 | 066874 | 2 | RETAINER, check valve |




DISPENSER ASSEMBLY 075771

USAGE: See page 239

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 068878 | 1 | BODY, fuel dispenser |
| 2 | 068879 | 1 | CHAMBER, fuel dispenser |
| 3 | 069164 | 1 | GASKET, fuel dispenser chamber |
| 4 | 905357 | 1 | BALL, steel, 3/16" diam. |
| 5 | 066251 | 1 | SPRING, plunger locking ball |
| 6 | 066252 | 1 | PLUG, retaining, locking ball spring |
| 7 | 066255 | 1 | PLUNGER, fuel dispenser |
| 8 | 068881 | 1 | KNOB, fuel dispenser plunger |
| 9 | 068875 | 1 | STRAINER, fuel dispenser |
| | 915432 | 1 | SCREW, machine, 1/4"NC x 5/16" |
| 10 | 075770 | 1 | PLUG, fuel dispenser strainer |
| 11 | 068876 | 1 | GASKET, fuel dispenser strainer plug |
| 12 | 075769 | 1 | CHAIN, strainer plug retaining |
| | 901781 | 1 | SCREW, machine, fil-hd., #10-32NF x 1/2" |




WATER PUMP (First type)

# WATER PUMP

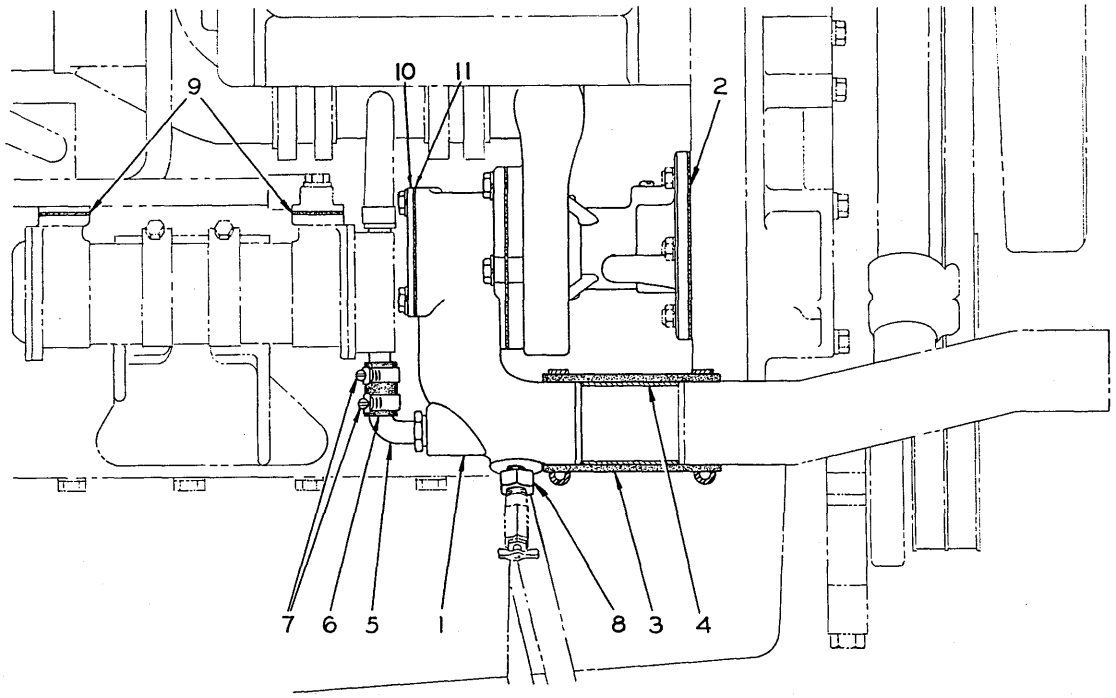
USAGE: Tractors prior to serial No. 9001. See page 245 for water pump changeover kit used optionally on some units.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | PUMP ASSEMBLY, water (Order water pump CHANGEOVER KIT 4375966) |
| 2 | 4375279 | 1 | HOUSING, impeller (When making first replacement also order one each GASKET 4030481, PLATE 4375755; two each CAPSCREW 903775, LOCKWASHER 904206) |
| 3 | 4369010 | 1 | GASKET, impeller housing |
| 4 | 4369620 | 1 | NUT, impeller retaining |
| 5 | 4369619 | 1 | WASHER, impeller retaining |
| 6 | 4375080 | 1 | IMPELLER |
| 7 | 4369618 | 1 | WASHER, impeller |
| 8 | 4369006 | 1 | SEAL KIT (Consists of items 8A and 8B) |
| 8A | 4369012 | 1 | SEAT, ceramic (Includes rubber sealing ring) |
| 8B | 4369007 | 1 | SPRING ASSEMBLY, seal (Includes rear seal face) |
| 9 | 4371887 | 1 | BODY, pump |
| | 903775 | 6 | CAPSCREW, 3/8"NC x 7/8" |
| | 916965 | 6 | LOCKWASHER, plated, 3/8" |
| 10 | 4369005 | 1 | SEAL, oil |
| 11 | 4253870 | 1 | BEARING, ball, pump shaft, rear |
| 12 | 4373645 | 1 | SHAFT, pump |
| | 910867 | 1 | NUT, slotted, 1/2"NF |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| 13 | 4660677 | 1 | KEY, drive gear |
| 14 | 4253871 | 1 | BEARING, ball, pump shaft, front |
| 15 | 4363488 | 1 | RING, snap, bearing retaining |
| 16 | 4373266 | 1 | GEAR, driving |
| 17 | 4363489 | 1 | WASHER, gear retaining |
| 18 | 4310257 | 2 | □GASKET, connecting elbows |
| 19 | 4368928 | 1 | ELBOW, water outlet |
| | 904706 | 2 | CAPSCREW, 7/16"NC x 1-1/4" |
| | 904207 | 2 | LOCKWASHER, 7/16" |
| 20 | 4376398 | 1 | □GASKET, mounting |
| 21 | 4371116 | 5 | STUD, water pump (3/8"NC x 3/8"NF x 1-7/16") |
| | 910123 | 5 | NUT, 3/8"NF |
| | 904206 | 5 | LOCKWASHER, 3/8" |

□Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 22 | 4373723 | 1 | ELBOW, water inlet |
| | 904706 | 2 | CAPSCREW, 7/16"NC x 1-1/4" |
| | 904207 | 2 | LOCKWASHER, 7/16" |
| 23 | 079751 | 1 | COCK, water drain (1/4"NPT)(Used prior to tractor #8340) |
| | 089894 | 1 | COCK, water drain (3/8"NPT)(Effective with tractor #8340) |
| 24 | 089604 | 1 | HOSE, water drain (3/8"I. D. )(Used prior to tractor #8340) |
| | 056222 | 1 | HOSE, water drain (5/8"I. D. )(Effective with tractor #8340) |
| 25 | 089879 | 1 | CLAMP, hose, spring type, 9/16" diam. (Used prior to tractor #8340) |
| | 089107 | 1 | CLAMP, hose, spring type, 15/16" diam. (Effective with tractor #8340) |
| 26 | 069657 | 1 | CLIP, hose supporting |
| 27 | 036034 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 28 | 082613 | 1 | BRACKET, supporting, water drain hose |
| 29 | ------ | - | HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER) |



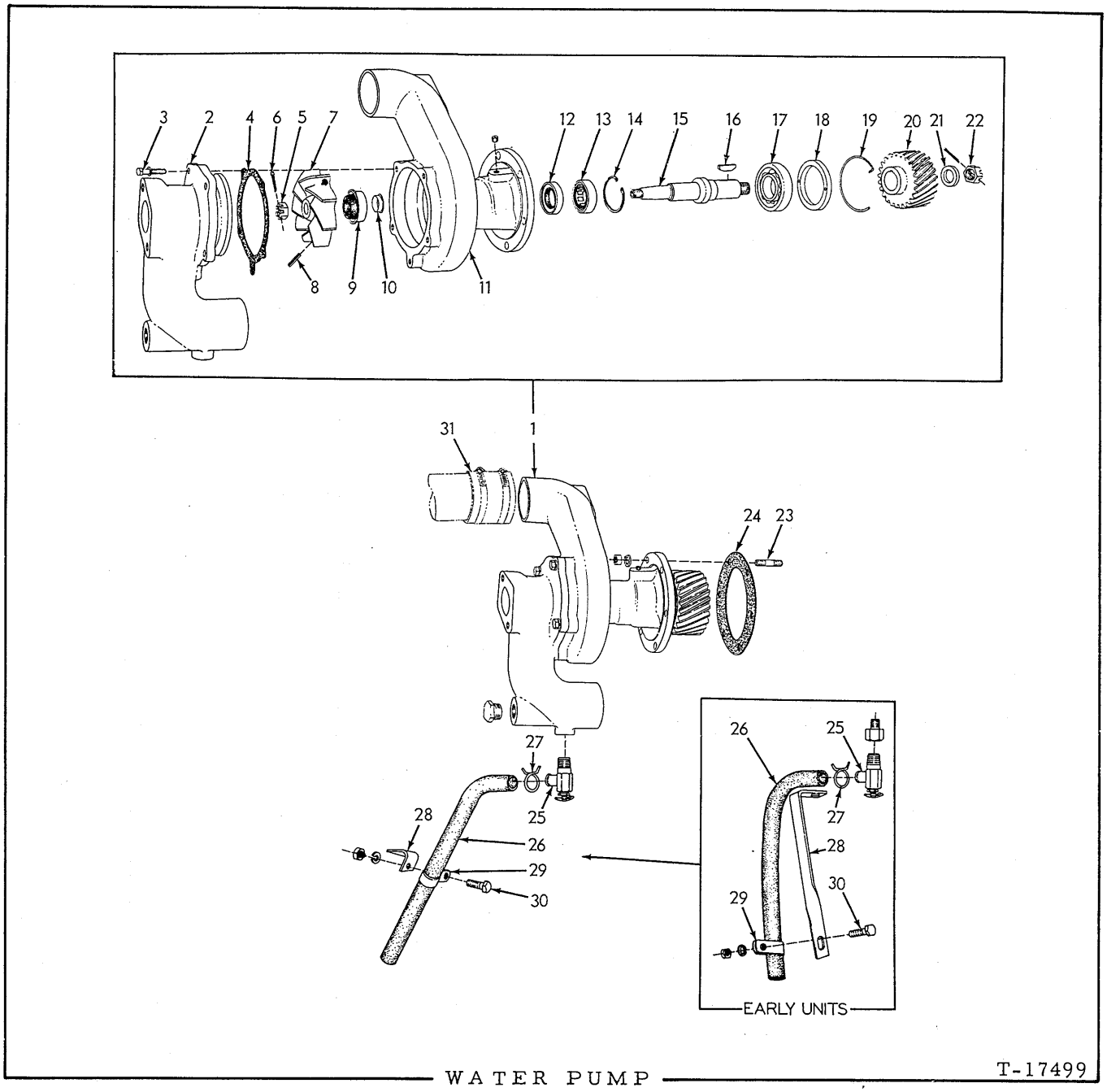

T-18136

## WATER PUMP CHANGEOVER KIT

USAGE: Effective with tractor serial No. 8823 including tractors serial No. 7190, 8014, 8140, 8313, 8319, 8337, 8346, 8370, 8463, 8464, 8471, 8480, 8485, 8541, 8546, 8567, 8572, 8575, 8576, 8577, 8586, 8587, 8603, 8610, 8650, 8656, 8672, 8673, 8677, 8678, 8679, 8684, 8692, 8695, 8696, 8699, 8700, 8702 thru 8716, 8718, 8720, 8721, 8724, 8729, 8730, 8737, 8738, 8739, 8741, 8743, 8744, 8746 thru 8751, 8754, 8760, 8761, 8763, 8765, 8766, 8768 thru 8776, 8779, 8780, 8783 thru 8786, 8788, 8789, 8791, 8792, 8794, 8795, 8796, 8798, 8800 thru 8803, 8806, 8808, 8812, 8813, 8815, 8816 and 8817.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| - | 4375966 | 1 | CHANGEOVER KIT, water pump (Consists of items 1 thru 9) |
| 1 | 4387254 | 1 | PUMP ASSEMBLY, water (See page 246 for parts)(When making first replacement also order items 10 and 11) |
| 2 | 4376398 | 1 | □GASKET, pump mounting |
| 3 | 4375967 | 1 | HOSE, water inlet (2-1/2" I. D. x 5-1/2") |
| 4 | 4375968 | 1 | TUBE, water inlet hose |
| 5 | 4375972 | 1 | ELBOW, oil cooler hose |
| 6 | 4375970 | 1 | HOSE, oil cooler (5/8"I. D. x 1-7/8") |
| 7 | 4254968 | 2 | CLAMP, hose |
| 8 | 912483 | 1 | ADAPTER, reducing, 3/8"NPT female to 1/4"NPT male |
| 9 | 4371027 | 2 | GASKET, oil cooler connections |
| 10 | 4375755 | 1 | PLATE, by-pass hole cover |
| | 903775 | 2 | CAPSCREW, 3/8"NC x 7/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 11 | 4030481 | 1 | □GASKET, by-pass hole cover plate |

□Also see PACKAGED PARTS




WATER PUMP T-17499

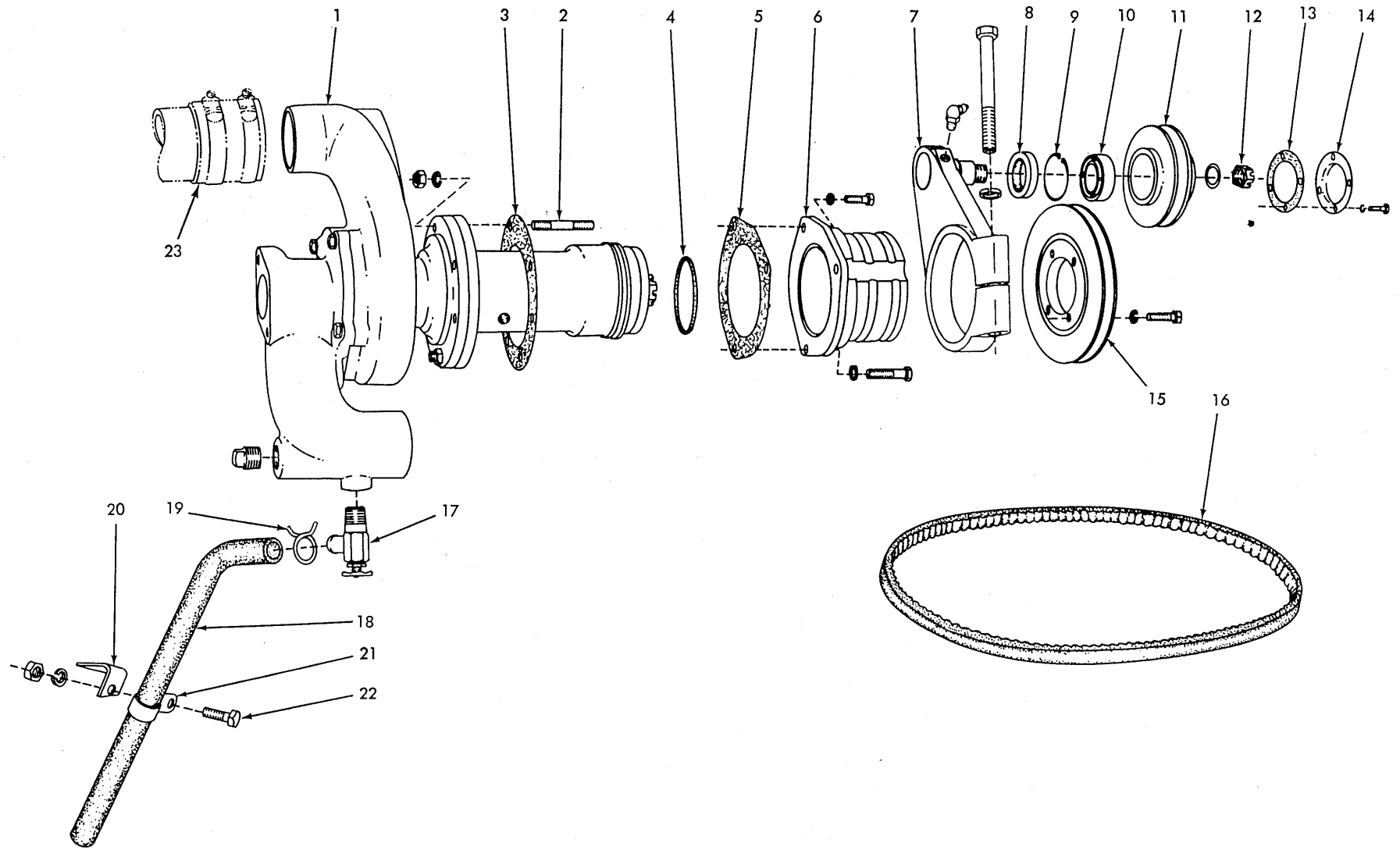
USAGE: Effective with tractors serial No. 9001 but later discontinued with engine serial No. 21-3995. Also see page 245 for Pump Changeover Kit for prior units.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4387254 | 1 | PUMP ASSEMBLY, water (Consists of item 2 thru 22) |
| | 920416 | 1 | PLUG, pipe, hex-hd., 1/2"NPT (Effective with tractor #11001) |
| 2 | 4375682 | 1 | COVER, pump inlet |
| | ------ | 1 | PLUG, pipe, 3/8"NPT (For shipping only) |
| 3 | 4041092 | 4 | CAPSCREW ASSEMBLY (Includes lockwasher) |
| 4 | 4372421 | 1 | GASKET, pump inlet cover |
| 5 | 4375686 | 1 | NUT, impeller retaining |
| 6 | 4041097 | 1 | PIN, cotter, impeller retaining nut |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 7 | 4389359 | 1 | IMPELLER ASSEMBLY (Includes ceramic insert) |
| 8 | 4375694 | 1 | PIN, groove, impeller retaining |
| 9 | 4386862 | 1 | SEAL ASSEMBLY (Serviced only as a unit) |
| 10 | 4375695 | 1 | FLINGER, water (Used prior to engine #21-3993) |
| 11 | 4375685 | 1 | BODY, pump (Used prior to April 1963) |
| | 4387255 | 1 | BODY, pump (Effective April 1963) |
| | 910230 | 1 | PLUG, pipe, slotted-hd., 1/8"NPT |
| 12 | 4660478 | 1 | SEAL, oil |
| 13 | 4041098 | 1 | BEARING, roller, pump shaft, rear (1.850 O. D.)(Used prior to April 1963) |
| | 4255338 | 1 | BEARING, roller pump shaft, rear (2.047 O. D.)(Effective April 1963) |
| 14 | 4041099 | 1 | RING, snap, bearing retaining (2" O. D.)(Used prior to April 1963) |
| | 4254100 | 1 | RING, snap, bearing retaining (2-1/4"O. D.)(Effective April 1963) |
| 15 | 4386861 | 1 | SHAFT, pump (nickel-plated)(Used prior to April 1963) |
| | 4387256 | 1 | SHAFT, pump (stainless steel)(Effective April 1963) |
| 16 | 4660677 | 1 | KEY, pump shaft |
| 17 | 4253871 | 1 | BEARING, ball, pump shaft, front |
| 18 | 4375690 | 1 | RETAINER, ball bearing |
| 19 | 4371707 | 1 | LOCKWIRE, bearing retaining |
| 20 | 4373266 | 1 | GEAR, driving |
| 21 | 4375691 | 1 | WASHER, gear retaining |
| 22 | 4052167 | 1 | NUT, gear retaining |
| | 900808 | 1 | PIN, cotter, 1/8" x 1-1/2" |
| 23 | 4371116 | 5 | STUD, water pump |
| | 904206 | 5 | LOCKWASHER, 3/8" |
| | 910123 | 5 | NUT, 3/8"NF |
| 24 | 4376398 | 1 | □GASKET, pump mounting |
| 25 | 089894 | 1 | COCK, water drain |
| | 912483 | 1 | ADAPTER, reducing, 3/8"NPT female to 1/4"NPT male (Used prior to engine #21-2100) |
| 26 | 056222 | 1 | HOSE, water drain |
| 27 | 089107 | 1 | CLAMP, hose (spring type, 15/16" diam.) |
| 28 | 082613 | 1 | BRACKET, supporting, water drain hose (Used prior to tractor #11001) |
| | 096208 | 1 | ANGLE, supporting, water drain hose (Effective with tractor #11001) |
| 29 | 069657 | 1 | CLIP, hose supporting |
| 30 | 035167 | 1 | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 31 | ------ | - | HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER) |

□Also see PACKAGED PARTS




WATER PUMP (Third type)

T-71983

# WATER PUMP

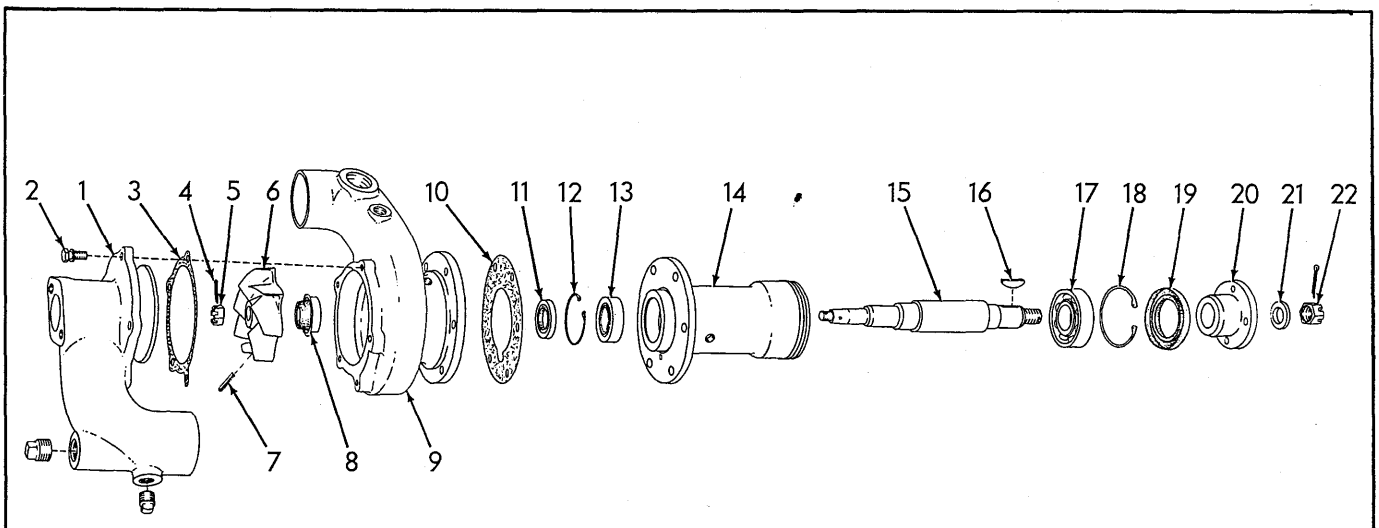
USAGE: Effective with engine serial No. 21-3995

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4387607 | 1 | PUMP ASSEMBLY (See page 251 for parts) |
| 2 | 4371116 | 5 | STUD, attaching |
| | 904206 | 5 | LOCKWASHER, 3/8" |
| | 910123 | 5 | NUT, 3/8"NF |
| 3 | 4376398 | 1 | □GASKET, pump mounting |
| 4 | 923935 | 1 | O-RING, pump body |
| 5 | 4361740 | 1 | □GASKET, idler support |
| 6 | 4386855 | 1 | SUPPORT, belt tightening idler |
| | 919224 | 1 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 912069 | 2 | CAPSCREW, 3/8"NC x 2-1/2" |
| | 904206 | 3 | LOCKWASHER, 3/8" |
| 7 | 4388339 | 1 | BRACKET, supporting, idler pulley |
| | 915275 | 1 | FITTING, lubricating, 67-1/2°, 1/8"NPT |
| | 916320 | 1 | CAPSCREW, 1/2"NC x 4" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 8 | 4254670 | 1 | SEAL, oil, idler pulley |
| 9 | 4254100 | 1 | RING, snap, idler pulley |
| 10 | 4255031 | 1 | BEARING, ball, idler pulley |
| 11 | 4387294 | 1 | PULLEY, idler (For 11/16" belt. Original equipment) |
| | 4388253 | 1 | PULLEY, idler (For 1/2" belt. Used on Model HD21G with service replacement CRANKSHAFT PULLEY 4388244 only) |
| 12 | 917626 | 1 | NUT, self-locking, 3/4"NF |
| | 910819 | 1 | WASHER, plain |
| 13 | 4347752 | 1 | GASKET, idler pulley cover |
| 14 | 4347751 | 1 | COVER, idler pulley |
| | 905656 | 4 | CAPSCREW, 1/4"NC x 5/8" |
| | 904204 | 4 | LOCKWASHER, 1/4" |
| 15 | 4386824 | 1 | PULLEY (For 11/16" belt. Original equipment) |
| | 916225 | 4 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 4388240 | 1 | PULLEY (For 1/2" belt. Used on Model HD21G with service replacement CRANKSHAFT PULLEY 4388244 only) |
| | 4751643 | 4 | BOLT (self-locking, 3/8"NF x 1") |
| 16 | 4388434 | 1 | BELT, pump driving (Models HD21A, F) |
| | 645829 | 1 | BELT, pump driving (Model HD21G)(11/16" wide. Original equipment) |
| | 4388326 | 1 | BELT, pump driving (Model HD21G)(1/2" wide. Used with PULLEYS 4388240 and 4388253) |
| 17 | 089894 | 1 | COCK, water drain |

□Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 18 | 056222 | 1 | HOSE, water drain |
| 19 | 089107 | 1 | CLAMP, hose, spring type, 15/16" diam. |
| 20 | 096208 | 1 | ANGLE, supporting, water drain hose |
| 21 | 069657 | 1 | CLIP, drain hose |
| 22 | 035167 | 1 | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| 23 | ------ | 1 | HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER) |

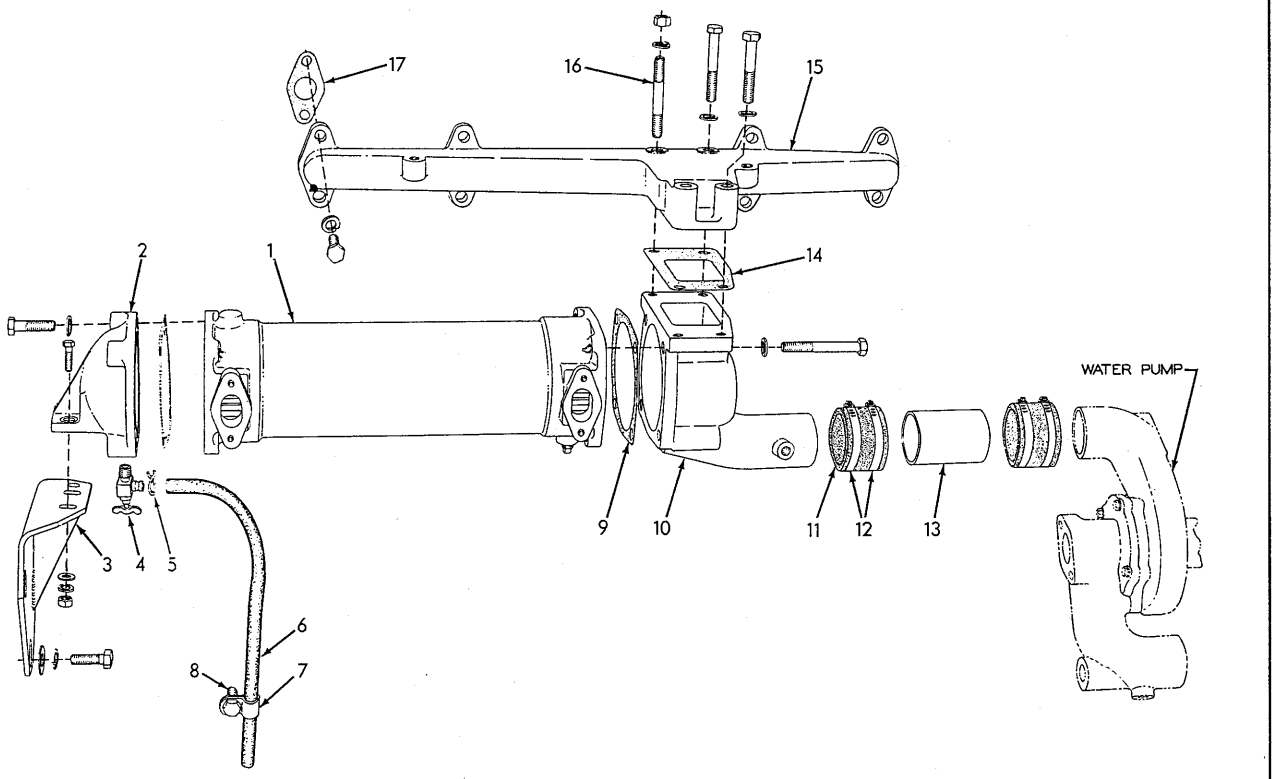



WATER PUMP ASSEMBLY 4387607

# WATER PUMP ASSEMBLY 4387607

USAGE: See page 249

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4375682 | 1 | COVER, pump inlet |
| | ------ | 1 | PLUG, pipe, 3/8"NPT (bottom) |
| | ------ | 1 | PLUG, pipe, 1/2"NPT (rear) |
| 2 | 4041092 | 4 | CAPSCREW ASSEMBLY (Includes lockwasher) |
| 3 | 4372421 | 1 | GASKET, pump inlet cover |
| 4 | 4041097 | 1 | PIN, cotter, impeller retaining nut |
| 5 | 4375686 | 1 | NUT, impeller retaining |
| 6 | 4389359 | 1 | IMPELLER ASSEMBLY (Includes ceramic insert) |
| 7 | 4375694 | 1 | PIN, impeller retaining |
| 8 | 4386862 | 1 | SEAL ASSEMBLY (Serviced only as a unit) |
| 9 | 4387609 | 1 | BODY, pump |
| | 920131 | 1 | PLUG, pipe, 3/8"NPT (Not original equipment) |
| 10 | 4387051 | 1 | GASKET, pump body |
| 11 | 4386927 | 1 | SEAL, oil, rear end (1" shaft diam.) (Original equipment) |
| | 4387605 | 1 | SEAL, oil, rear end (31/32" shaft diam.) (For service replacement pump only) |
| 12 | 4254100 | 1 | RING, snap, rear bearing |
| 13 | 4255338 | 1 | BEARING, roller (rear) |
| 14 | 4387050 | 1 | SLEEVE, extension |
| 15 | 4387606 | 1 | SHAFT (When making first replacement also order SEAL 4387605) |
| 16 | 4660677 | 1 | KEY, pump shaft |
| 17 | 4253871 | 1 | BEARING, ball (front) |
| 18 | 4253318 | 1 | RING, snap, front bearing |
| 19 | 4254948 | 1 | SEAL, oil, front end |
| 20 | 4386924 | 1 | HUB, drive |
| 21 | 4375691 | 1 | WASHER, hub retaining |
| 22 | 4052167 | 1 | NUT, hub retaining |
| | 900808 | 1 | PIN, cotter, 1/8" x 1-1/2" |




WATER INLET MANIFOLD AND HEAT EXCHANGER T-13073

USAGE: Tractors prior to serial No. 11001

* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4369808 | 1 | 1 | EXCHANGER, torque converter heat |
| 2 | 4373724 | 1 | 1 | BONNET, heat exchanger |
| | 917010 | 4 | 4 | CAPSCREW, 1/2"NC x 1-7/8" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 910211 | 2 | 2 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 911115 | 2 | 2 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 910324 | 2 | 2 | NUT, 3/8"NC |
| 3 | 4369816 | 1 | - | BRACKET, heat exchanger (Illustrated)(For Models HD21A and HD21F only) |
| 3 | 4373747 | 1 | - | BRACKET, heat exchanger and generator regulator (For Model HD21G only) |
| 3 | ------ | - | 1 | BRACKET (See GENERATOR section) |
| | 903644 | 3 | - | CAPSCREW, 5/8"NC x 1-1/2" |
| | 904209 | 3 | - | LOCKWASHER, 5/8" |
| | 911100 | 3 | - | WASHER, plain, SAE std., 5/8" |

NOTE: Items 4 thru 8 became effective with tractor serial No. 8263.

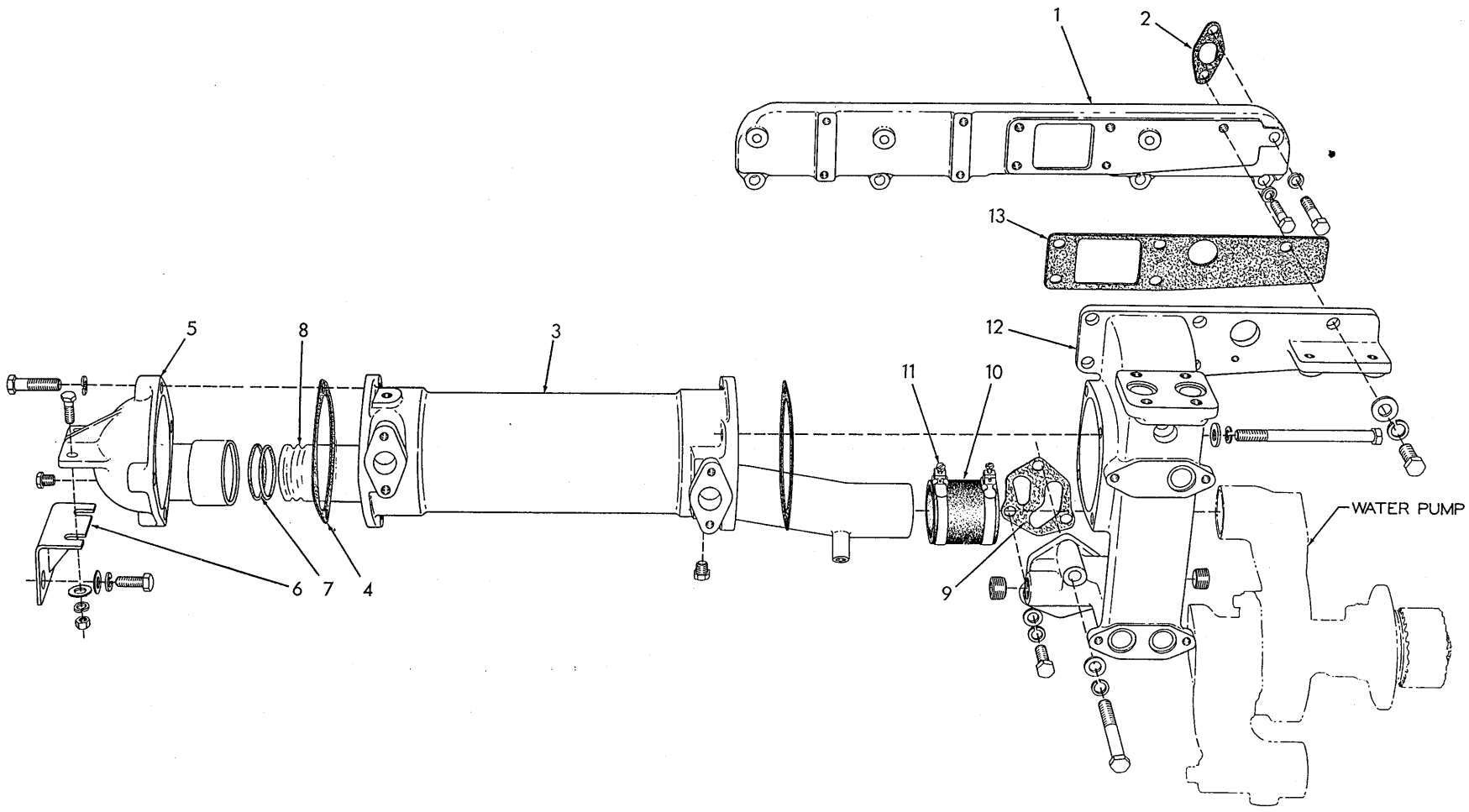
| | | | | |
|---|---|---|---|---|
| 4 | 079751 | 1 | 1 | COCK, water drain |

(Continued)

## WATER INLET MANIFOLD AND HEAT EXCHANGER (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 5 | 089879 | 1 | 1 | CLAMP, water drain hose |
| 6 | 089604 | 1 | 1 | HOSE, water drain |
| 7 | 048145 | 1 | 1 | CLIP, water drain hose |
| 8 | 035221 | 1 | 1 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| 9 | 4371160 | 2 | 2 | □GASKET, heat exchanger |
| 10 | 4369814 | 1 | - | INLET, water, heat exchanger to manifold (Used prior to engine #81500) |
| | 4372428 | 1 | - | INLET, water, heat exchanger to manifold (Effective with engine #81500) |
| | 4375659 | - | 1 | INLET, water, heat exchanger to manifold |
| | 906700 | 4 | 4 | CAPSCREW, 1/2"NC x 3-3/4" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 11 | 4014655 | 2 | - | HOSE, water tee (2-1/2"I. D. x 2-1/2" long) |
| | 4361978 | - | 2 | HOSE, water tube (2-1/2"I. D. x 2" long) |
| 12 | 4253464 | 4 | 4 | CLAMP, hose |
| 13 | 4373699 | 1 | - | TEE, water pump to heat exchanger (Has connection for oil cooler water line) |
| | 4375707 | - | 1 | TUBE, water pump to heat exchanger |
| 14 | 4369830 | 1 | - | □GASKET, water inlet to manifold (Used prior to engine #81500) |
| | 4372429 | 1 | 1 | □GASKET, water inlet to manifold (Effective with engine #81500) |
| 15 | 4369828 | 1 | - | MANIFOLD, cylinder block water inlet (Used prior to engine #81500) |
| | 4372427 | 1 | 1 | MANIFOLD, cylinder block water inlet (Effective with engine #81500) |
| | 903639 | 8 | 8 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 903781 | 2 | 2 | CAPSCREW, 1/2"NC x 2-3/4" |
| | 903782 | 1 | 1 | CAPSCREW, 1/2"NC x 3-1/2" (Also attaches oil filter) |
| | 904208 | 11 | 11 | LOCKWASHER, 1/2" |
| 16 | 4611458 | 1 | 1 | STUD, water inlet (1/2" diam.)(Also attaches oil filter) |
| | 910195 | 1 | 1 | NUT, 1/2"NF |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| 17 | 4385520 | 4 | 4 | □GASKET, water inlet manifold |

□Also see PACKAGED PARTS




WATER INLET MANIFOLD AND HEAT EXCHANGER (Second type)

T-19669

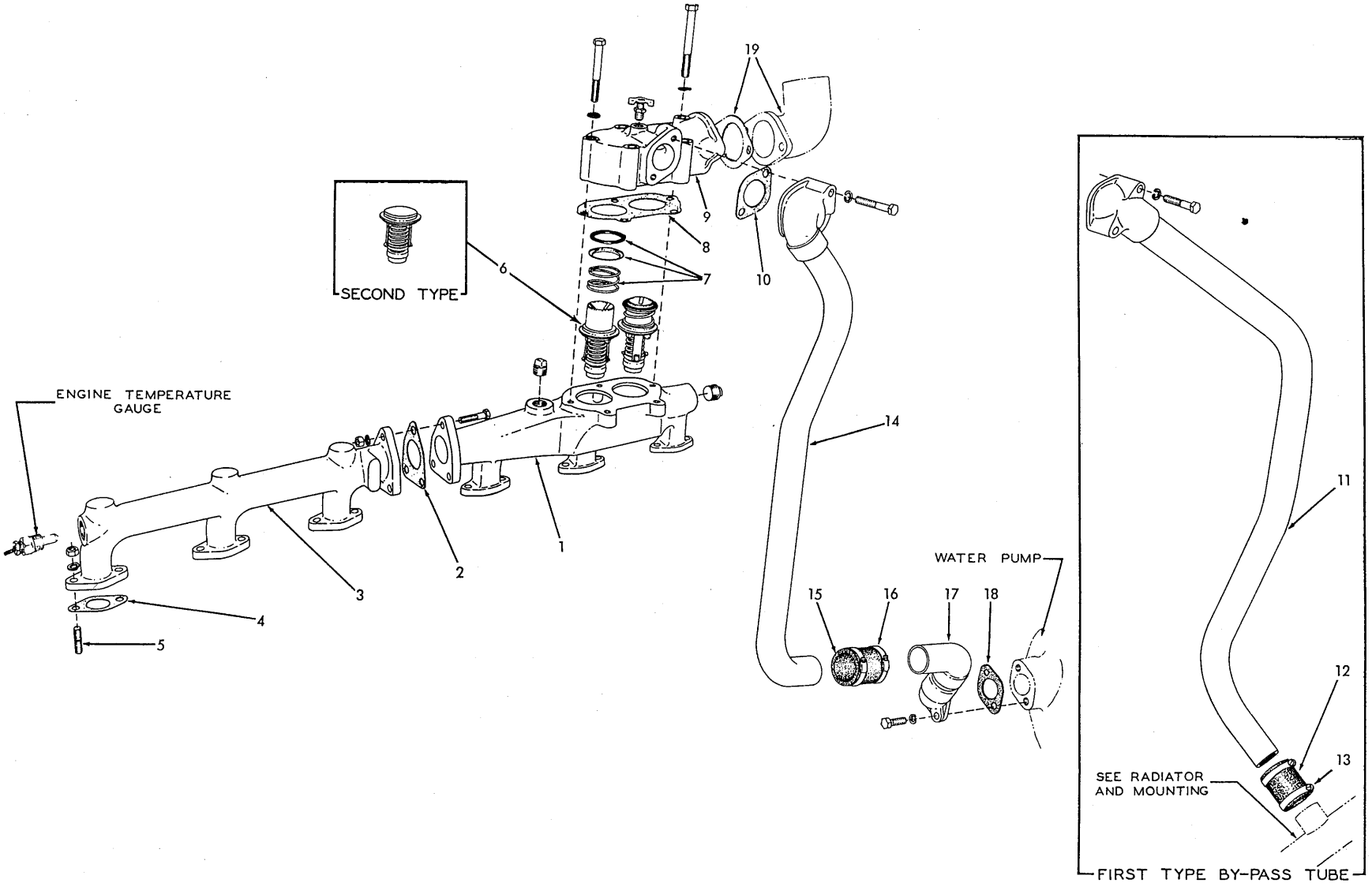
# WATER INLET MANIFOLD AND HEAT EXCHANGER

USAGE: Tractors serial No. 11001 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4389288 | 1 | MANIFOLD, water inlet |
| | 919231 | 4 | CAPSCREW, 1/2"NC x 1-7/8" |
| | 916317 | 4 | CAPSCREW, 1/2"NC x 2-3/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 2 | 4385520 | 4 | □GASKET, water inlet manifold |
| 3 | 4377644 | 1 | EXCHANGER, heat, torque converter fluid |
| | 919840 | 1 | PLUG, pipe, hex-hd., 1/4"NPT |
| | 916322 | 4 | CAPSCREW, 1/2"NC x 5" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 916009 | 4 | WASHER, plain |
| 4 | 4371160 | 2 | □GASKET, heat exchanger |
| 5 | 4378070 | 1 | BONNET, heat exchanger (If for engines prior to #21-2691 also order items 7 and 8) |
| | 919840 | 1 | PLUG, pipe, hex-hd., 1/4"NPT |
| | 919231 | 4 | CAPSCREW, 1/2"NC x 1-7/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 903632 | 2 | CAPSCREW, 3/8"NC x 1-1/2" |
| | 911115 | 2 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 910324 | 2 | NUT, 3/8"NC |
| 6 | 4377248 | 1 | BRACKET, supporting, heat exchanger |
| | 903638 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 7 | 4254806 | 2 | □O-RING, bonnet tube (Effective with engine #21-2691) |
| 8 | 4378069 | 1 | TUBE, pump to bonnet (Used on engines #21-2691 thru #21-3682 excluding exceptions listed below) |
| 8 | 4385985 | 1 | TUBE, pump to bonnet (26-1/2" long)(Used on engines #21-3683 thru #21-3994 including exceptions listed below) |
| 8 | 4386957 | 1 | TUBE, pump to bonnet (29" long)(Effective with engine #21-3995) |
| 9 | 4386495 | 1 | □GASKET, manifold to block |
| 10 | 4378843 | 1 | HOSE, heat exchanger to water pump |
| 11 | 4253464 | 2 | CLAMP, hose |
| 12 | 4377455 | 1 | MANIFOLD ASSEMBLY, water and oil (Includes PLUGS indented below)(Used prior to engine #21-05752) |
| 12 | 904224 | 2 | PLUG, pipe, ctsk-hd., 3/4"NPT |
| 12 | 4389062 | 1 | MANIFOLD, water and oil (Effective with engine #21-05752) |
| | 916311 | 5 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 915987 | 2 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 914399 | 1 | CAPSCREW, 1/2"NC x 3-3/4" (Engines prior to #21-05752) |
| | 916320 | 1 | CAPSCREW, 1/2"NC x 4" (Engines #21-05752 and up) |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| | 912333 | 8 | WASHER, plain |
| 13 | 4389291 | 1 | □GASKET, water and oil manifold |

□Also see PACKAGED PARTS

EXCEPTIONS: (See item 8) Engines No. 21-3431, 21-3527, 21-3593, 21-3597, 21-3600, 21-3604, 21-3608, 21-3609, 21-3616, 21-3622, 21-3632, 21-3634, 21-3637, 21-3638, 21-3645, 21-3646, 21-3648, 21-3650, 21-3651, 21-3652, 21-3654, 21-3655, 21-3657, 21-3658, 21-3660, 21-3664, 21-3668, 21-3670, 21-3671, 21-3673, 21-3674, 21-3676, 21-3679, 21-3680, 21-3681, 21-3691, 21-3705




WATER OUTLET MANIFOLD (First type)

T-13075

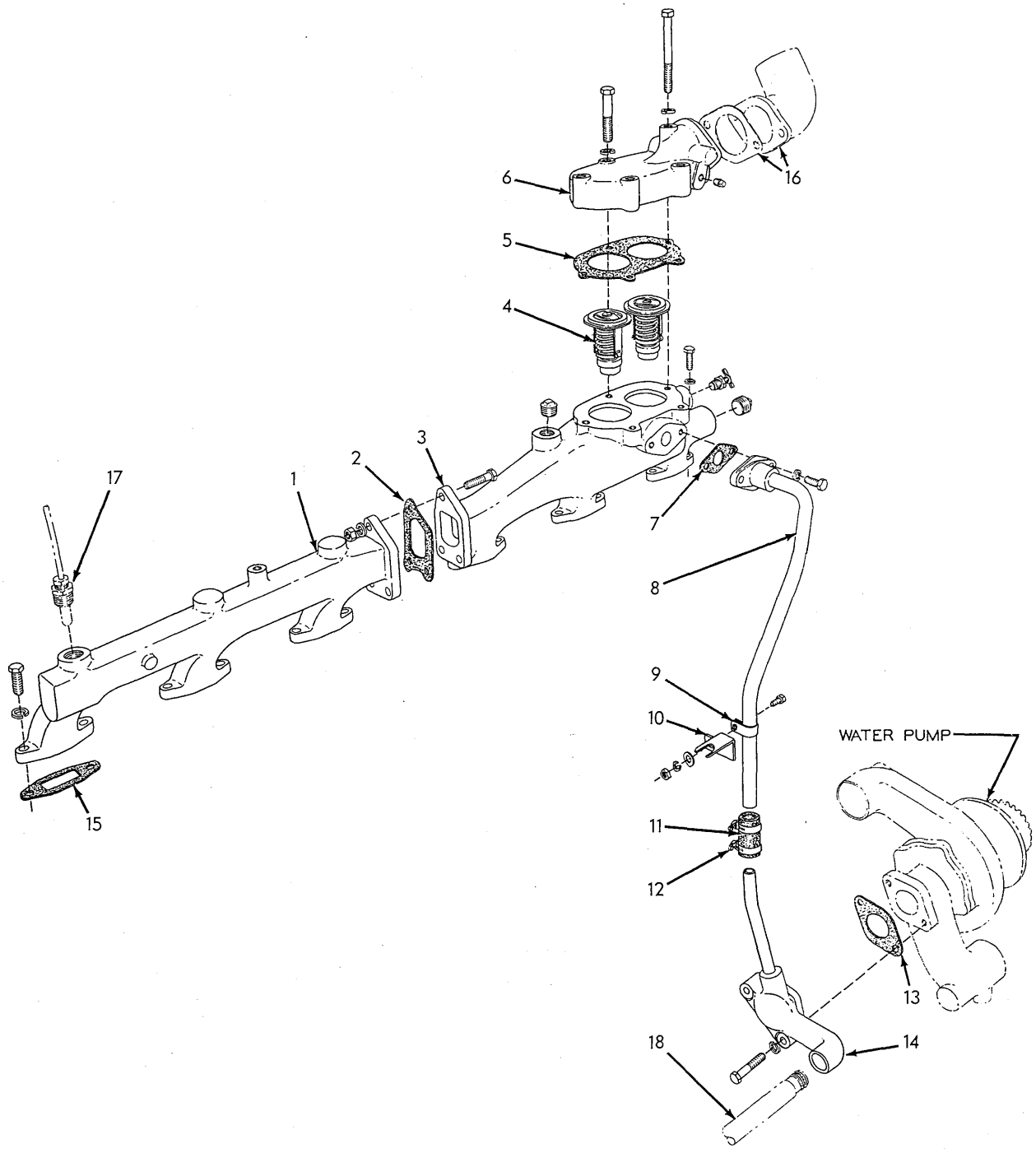
# WATER OUTLET MANIFOLD

USAGE: Tractors prior to serial No. 11001

* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4371886 | 1 | 1 | MANIFOLD, front (Used prior to engine #21-2215) |
| | 4376525 | - | 1 | MANIFOLD, front (Effective with engine #21-2215) |
| | 912726 | 1 | 1 | PLUG, pipe, 3/4"NPT |
| | 912725 | 1 | 1 | PLUG, pipe, 1/2"NPT |
| 2 | 4371897 | 1 | 1 | □GASKET, manifold connecting |
| 3 | 4371882 | 1 | 1 | MANIFOLD, rear |
| | 914499 | 3 | 3 | CAPSCREW, 3/8"NC x 1-5/8" |
| | 904206 | 3 | 3 | LOCKWASHER, 3/8" |
| | 910324 | 3 | 3 | NUT, 3/8"NC |
| 4 | 4660355 | 6 | 6 | □GASKET, manifold to head |
| 5 | 4001360 | 12 | 12 | STUD, manifold |
| | 910123 | 12 | 12 | NUT, 3/8"NF |
| | 904206 | 12 | 12 | LOCKWASHER, 3/8" |
| 6 | 4363280 | 2 | 2 | THERMOSTAT (Used prior to engine #21-2215) |
| | 4379916 | - | 2 | THERMOSTAT (Effective with engine #21-2215) |
| 7 | 4375678 | 2 | 2 | SEAL ASSEMBLY, thermostat (1 seal, 1 spring, 1 retainer. Serviced only as a unit)(Used prior to engine #21-2215) |
| 8 | 4376520 | 1 | 1 | □GASKET, thermostat cover |
| 9 | ------ | 1 | - | COVER ASSEMBLY, thermostat (Includes brass inserts)(Used prior to engine #84205)(Order one 4374418 and one 912415) |
| | 4374418 | 1 | 1 | COVER ASSEMBLY, thermostat (Includes brass inserts)(Used on engines #84205 thru #21-2215) |
| | 4376521 | - | 1 | COVER ASSEMBLY, thermostat (Includes inserts)(Effective with engine #21-2215) |
| | 912415 | 1 | 1 | COCK, T-handle, 1/4"NPT (For venting air)(Effective with engine #84205) |
| | 915601 | 4 | 4 | CAPSCREW, 7/16"NC x 3-1/4" |
| | 915604 | 1 | 1 | CAPSCREW, 7/16"NC x 4" |
| | 904207 | 5 | 5 | LOCKWASHER, 7/16" |
| 10 | 4386137 | 1 | 1 | □GASKET, upper water by-pass line |
| 11 | 4371743 | 1 | - | LINE, water by-pass |
| | 904281 | 2 | - | CAPSCREW, 3/8"NC x 2-1/4" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| 12 | 075870 | 1 | - | HOSE, water by-pass tube (1-5/8" I. D. x 2-1/4") |
| 13 | 921913 | 2 | - | CLAMP, hose, 1-13/16" to 2-3/4" diam.) |
| 14 | 4375288 | - | 1 | LINE, water by-pass, upper section |
| | 903626 | - | 2 | CAPSCREW, 3/8"NC x 2-3/4" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| 15 | 4369981 | - | 1 | HOSE, water by-pass line |
| 16 | 4253457 | - | 2 | CLAMP, hose |
| 17 | 4375714 | - | 1 | LINE, water by-pass, lower section |
| | 903630 | - | 2 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| 18 | 4030481 | - | 1 | □GASKET, lower water by-pass line |
| 19 | ------ | - | - | ELBOW AND GASKET (See RADIATOR AND MOUNTING) |

□Also see PACKAGED PARTS




WATER OUTLET MANIFOLD (Second type) T-19668

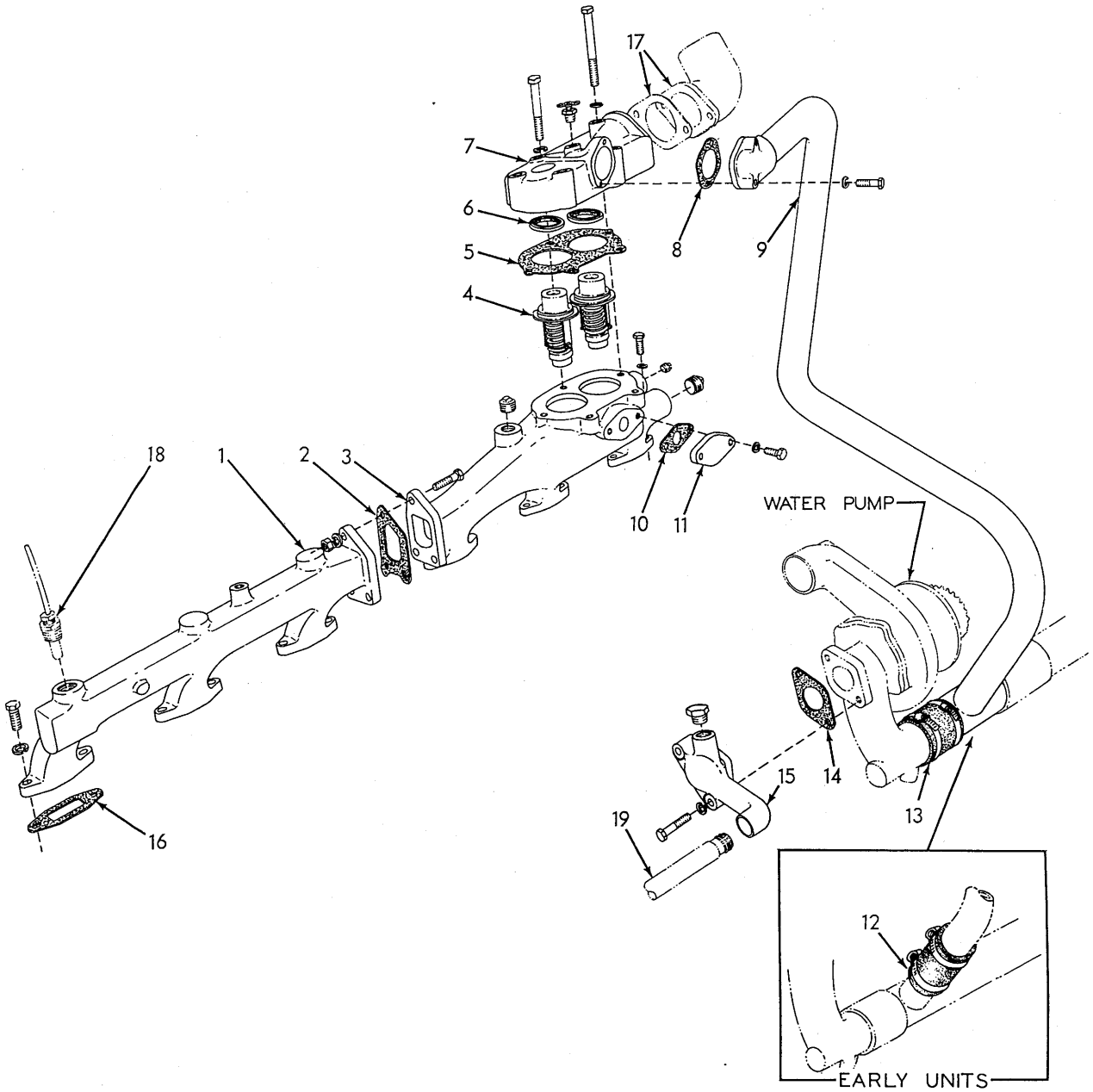
# WATER OUTLET MANIFOLD

USAGE: Effective with tractor serial No. 11001 but later discontinued with engine serial No. 21-3683; also excludes engines listed below.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386827 | 1 | MANIFOLD, rear |
| | 919224 | 6 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 914499 | 3 | CAPSCREW, 3/8"NC x 1-5/8" |
| | 904206 | 9 | LOCKWASHER, 3/8" |
| | 910324 | 3 | NUT, 3/8"NC |
| 2 | 4376527 | 1 | □GASKET, manifold connecting |
| 3 | 4388563 | 1 | MANIFOLD, front |
| | 912415 | 1 | COCK, T-handle, 1/4"NPT (For venting air) |
| | 912725 | 1 | PLUG, pipe, 1/2"NPT |
| | 912726 | 1 | PLUG, pipe, 3/4"NPT |
| | 919224 | 6 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 6 | LOCKWASHER, 3/8" |
| 4 | 4379916 | 1 | THERMOSTAT (170°) |
| | 4378269 | 1 | THERMOSTAT (180°) |
| 5 | 4376520 | 1 | □GASKET, thermostat cover |
| 6 | 4376118 | 1 | COVER, thermostat |
| | 901651 | 1 | PLUG, pipe, 1/8"NPT |
| | 916257 | 4 | CAPSCREW, 7/16"NC x 2-1/2" |
| | 918740 | 1 | CAPSCREW, 5/16"NC x 4" |
| | 904207 | 5 | LOCKWASHER, 7/16" |
| 7 | 4362458 | 1 | □GASKET, upper water by-pass tube |
| 8 | 4378522 | 1 | TUBE, water by-pass, upper section |
| | 916269 | 2 | CAPSCREW, 3/8"NC x 7/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 9 | 4253668 | 1 | CLAMP, upper water by-pass tube |
| | 903625 | 1 | CAPSCREW, 1/4"NC x 3/4" |
| | 911114 | 1 | WASHER, plain, SAE std., 1/4" |
| | 904204 | 1 | LOCKWASHER, 1/4" |
| | 911327 | 1 | NUT, 1/4"NC |
| 10 | 4378378 | 1 | BRACKET, clamp supporting |
| 11 | 4378836 | 1 | HOSE, water by-pass tube |
| 12 | 4254968 | 2 | CLAMP, hose |
| 13 | 4378112 | 1 | □GASKET, lower water by-pass tube |
| 14 | 4378104 | 1 | TUBE, water by-pass, lower section |
| | 910948 | 2 | CAPSCREW, 3/8"NC x 2" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 15 | 4376483 | 6 | □GASKET, manifold to head |
| 16 | ------ | - | ELBOW AND GASKET (See RADIATOR AND MOUNTING) |
| 17 | ------ | - | GAUGE, temperature (See INSTRUMENTS) |
| 18 | ------ | - | TUBE, water (See OIL COOLER) |

□Also see PACKAGED PARTS

EXCEPTIONS: Engines No. 21-3431, 21-3527, 21-3593, 21-3597, 21-3600, 21-3604, 21-3608, 21-3609, 21-3616, 21-3622, 21-3632, 21-3634, 21-3637, 21-3638, 21-3645, 21-3646, 21-3648, 21-3650, 21-3651, 21-3652, 21-3654, 21-3655, 21-3657, 21-3658, 21-3660, 21-3664, 21-3668, 21-3670, 21-3671, 21-3673, 21-3674, 21-3676, 21-3679, 21-3680, 21-3681, 21-3691, 21-3705




T-33431

WATER OUTLET MANIFOLD (Third type)

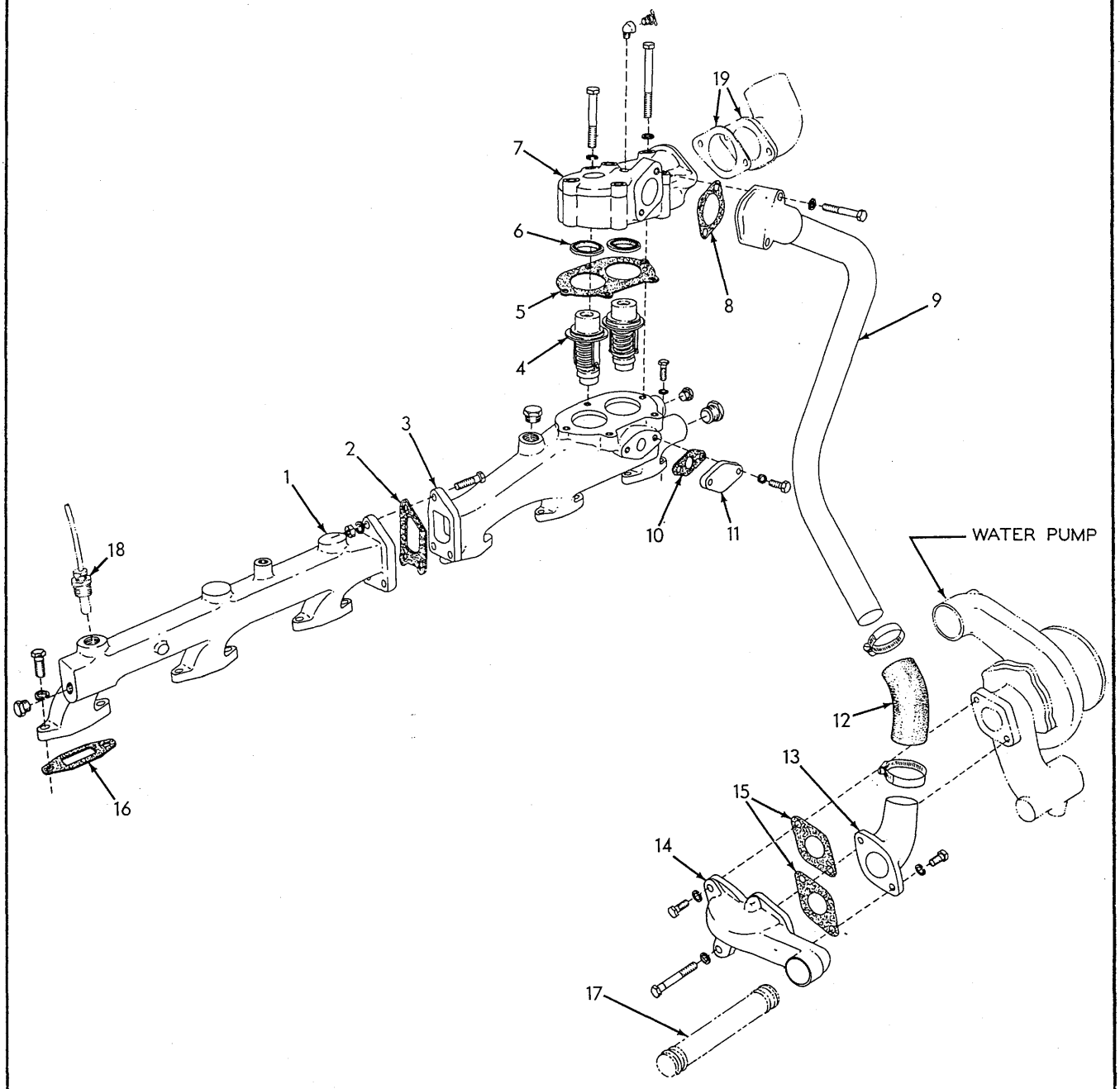
# WATER OUTLET MANIFOLD

USAGE: Engines serial No. 21-3683 thru No. 21-3994 including engines listed below.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386827 | 1 | MANIFOLD, rear |
| | 919224 | 6 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 914499 | 3 | CAPSCREW, 3/8"NC x 1-5/8" |
| | 904206 | 9 | LOCKWASHER, 3/8" |
| | 910324 | 3 | NUT, 3/8"NC |
| 2 | 4376527 | 1 | □GASKET, manifold connecting |
| 3 | 4388563 | 1 | MANIFOLD, front |
| | 901652 | 1 | PLUG, pipe, 1/4"NPT |
| | 912725 | 1 | PLUG, pipe, 1/2"NPT |
| | 912726 | 1 | PLUG, pipe, 3/4"NPT |
| | 919224 | 6 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 6 | LOCKWASHER, 3/8" |
| 4 | 4314562 | 2 | THERMOSTAT (180°) |
| 5 | 4376520 | 1 | □GASKET, thermostat cover |
| 6 | 4317554 | 2 | SEAL, thermostat |
| 7 | 4385938 | 1 | COVER ASSEMBLY, thermostat (Includes inserts and item 6) |
| | 912415 | 1 | COCK, T-handle, 1/4"NPT (For venting air) |
| | 915601 | 4 | CAPSCREW, 7/16"NC x 3-1/4" |
| | 918740 | 1 | CAPSCREW, 7/16"NC x 4" |
| | 904207 | 5 | LOCKWASHER, 7/16" |
| 8 | 4386137 | 1 | □GASKET, water by-pass tube |
| 9 | 4386055 | 1 | TUBE, water by-pass |
| | 904281 | 2 | CAPSCREW, 3/8"NC x 2-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 10 | 4362458 | 1 | □GASKET, manifold cover |
| 11 | 4313015 | 1 | COVER, front manifold |
| | 903629 | 2 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 12 | 075870 | 1 | HOSE, water by-pass tube (Used prior to engine #21-3768) |
| | 921913 | 2 | CLAMP, hose, 1-13/16" to 2-3/4" diam. |
| 13 | 4014655 | 1 | HOSE, water by-pass tube (Effective with engine #21-3768) |
| | 4255013 | 2 | CLAMP, hose |
| 14 | 4378112 | 1 | □GASKET, water pump flange |
| 15 | 4385949 | 1 | FLANGE, water pump |
| | 920416 | 1 | PLUG, pipe, hex-hd., 1/2"NPT |
| | 910948 | 2 | CAPSCREW, 3/8"NC x 2" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 16 | 4376483 | 6 | □GASKET, manifold to head |
| 17 | ------ | - | ELBOW AND GASKET (See RADIATOR AND MOUNTING) |
| 18 | ------ | - | GAUGE, temperature (See INSTRUMENTS) |
| 19 | ------ | - | TUBE, water (See OIL COOLER) |

□Also see PACKAGED PARTS

NOTE: This design also effective on engines No. 21-3431, 21-3527, 21-3593, 21-3597, 21-3600, 21-3604, 21-3608, 21-3609, 21-3616, 21-3622, 21-3632, 21-3634, 31-3637, 21-3638, 21-3645, 21-3646, 21-3648, 21-3650, 21-3651, 21-3652, 21-3654, 21-3655, 21-3657, 21-3658, 21-3660, 21-3664, 21-3668, 21-3670, 21-3671, 21-3673, 21-3674, 21-3676, 21-3679, 21-3680, 21-3681, 21-3691, 21-3705




T-37209

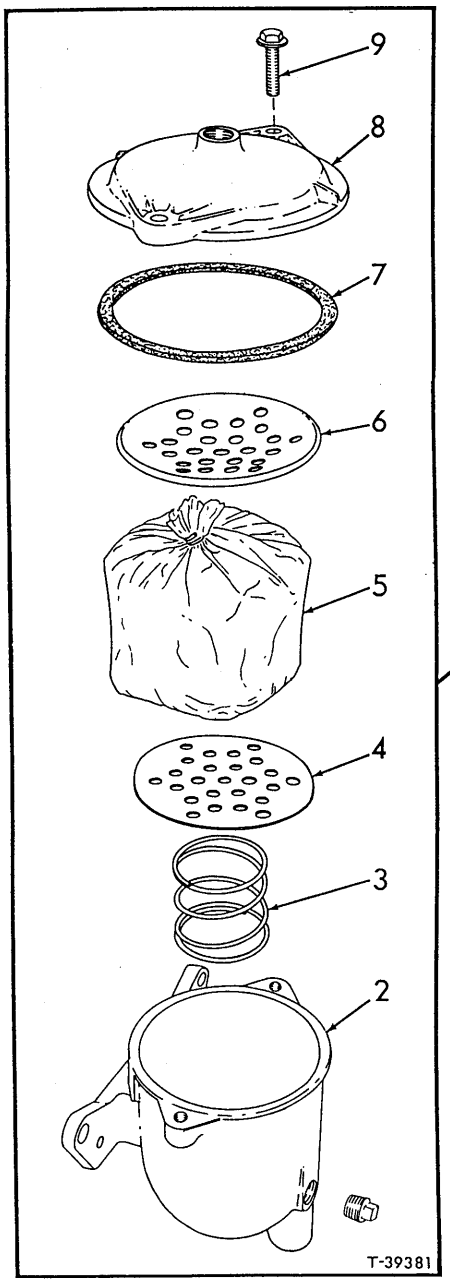
WATER OUTLET MANIFOLD (Fourth type)

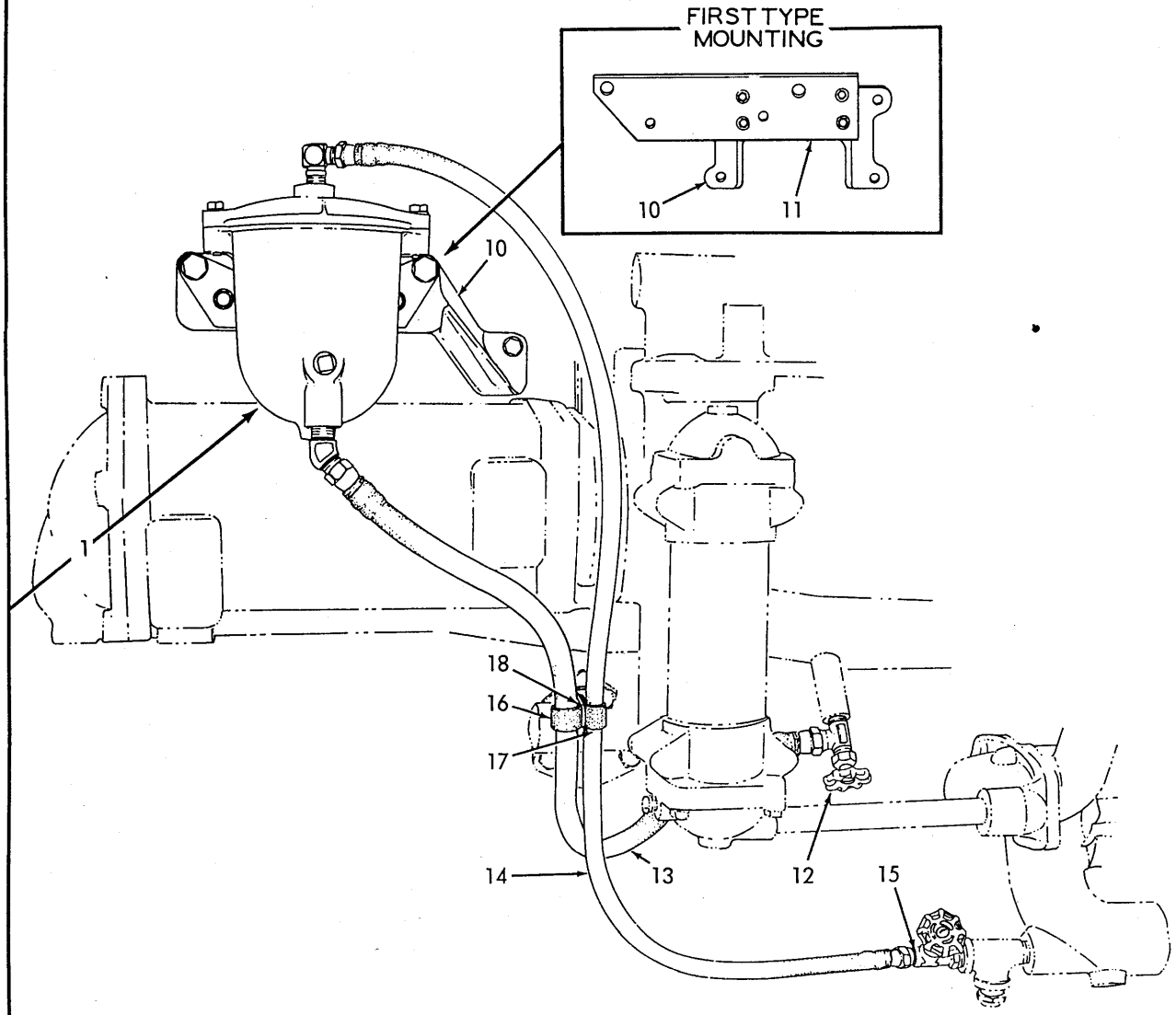
# WATER OUTLET MANIFOLD

USAGE: Engines serial No. 21-3995 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 4386827 | 1 | MANIFOLD, rear |
| | 920416 | 1 | PLUG, pipe, hex-hd., 1/2"NPT |
| | 919224 | 6 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 919226 | 3 | CAPSCREW, 3/8"NC x 1-5/8" |
| | 904206 | 9 | LOCKWASHER, 3/8" |
| | 910324 | 3 | NUT, 3/8"NC |
| 2 | 4376527 | 1 | □ GASKET, manifold connecting |
| 3 | 4388563 | 1 | MANIFOLD, front |
| | 901652 | 1 | PLUG, pipe, 1/4"NPT |
| | 912725 | 1 | PLUG, pipe, 1/2"NPT |
| | 912726 | 1 | PLUG, pipe, 3/4"NPT |
| | 919224 | 6 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 6 | LOCKWASHER, 3/8" |
| 4 | 4314562 | 2 | THERMOSTAT |
| 5 | 4376520 | 1 | □ GASKET, thermostat cover |
| 6 | 4317554 | 2 | SEAL, thermostat |
| 7 | 4385938 | 1 | COVER ASSEMBLY, thermostat (Includes inserts and item 6) |
| | 914588 | 1 | ELBOW, street, brass, 90°, 1/4"NPT |
| | 912415 | 1 | COCK, T-handle, 1/4"NPT (For venting air) |
| | 918395 | 4 | CAPSCREW, 7/16"NC x 3-1/4" |
| | 918740 | 1 | CAPSCREW, 7/16"NC x 4" |
| | 904207 | 5 | LOCKWASHER, 7/16" |
| 8 | 4386137 | 1 | □ GASKET, water by-pass tube |
| 9 | 4386891 | 1 | TUBE, water by-pass |
| | 916274 | 2 | CAPSCREW, 3/8"NC x 2-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 10 | 4362458 | 1 | □ GASKET, manifold cover |
| 11 | 4313015 | 1 | COVER, front manifold |
| | 915408 | 2 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 12 | 4386894 | 1 | ELBOW, water by-pass tube (rubber) |
| | 4255011 | 2 | CLAMP, hose |
| 13 | 4386881 | 1 | ELBOW, water by-pass line |
| | 916271 | 2 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 14 | 4386779 | 1 | FLANGE, water pump |
| | 919224 | 1 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 915990 | 1 | CAPSCREW, 3/8"NC x 2-3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 15 | 4378112 | 2 | □ GASKET, water pump flange |
| 16 | 4376483 | 6 | □ GASKET, manifold to head |
| 17 | ------- | - | TUBE, water (See OIL COOLER) |
| 18 | ------- | - | GAUGE, temperature (See INSTRUMENTS) |
| 19 | ------- | - | ELBOW AND GASKET (See RADIATOR AND MOUNTING) |

□ Also see PACKAGED PARTS




COOLANT FILTER

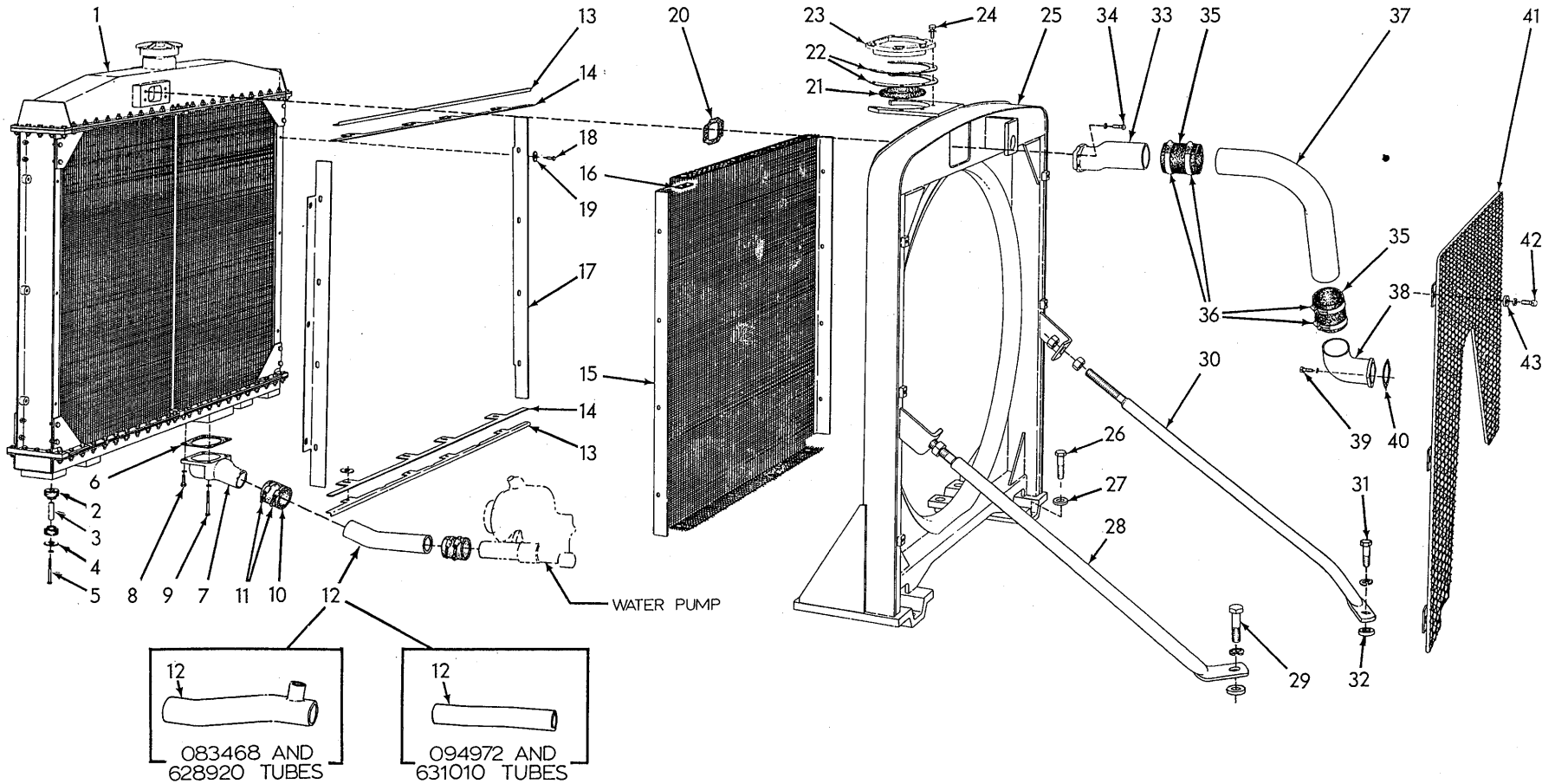
# COOLANT FILTER

USAGE: Engines serial No. 21-3683 and up, including engines listed below

* Engines prior to serial No. 21-3879
** Engines serial No. 21-3879 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 4387474 | 1 | 1 | FILTER ASSEMBLY, water (Consists of items 2 thru 9. Has element for use with permanent anti-freeze) |
| | 903638 | 2 | - | CAPSCREW, 1/2"NC x 1-1/4" |
| | 913717 | - | 2 | CAPSCREW, 1/2"NC x 1" |
| | 900818 | 2 | 2 | WASHER, plain, U.S. std., 1/2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 903773 | 2 | - | CAPSCREW, 5/16"NC x 1-1/4" |
| | 914392 | - | 2 | CAPSCREW, 5/16"NC x 1" |
| | 901165 | 2 | 2 | WASHER, plain, U.S. std., 5/16" |
| | 904205 | 2 | 2 | LOCKWASHER, 5/16" |
| 2 | 4055031 | 1 | 1 | BODY, filter |
| | 920131 | 2 | 2 | PLUG, pipe, 3/8"NPT |
| 3 | 4054569 | 1 | 1 | SPRING, filter element |
| 4 | 4054568 | 1 | 1 | PLATE, filter element, lower |
| 5 | 4058830 | 1 | 1 | ELEMENT KIT, filter (Includes item 7)(Cannot be used with permanent anti-freeze) |
| 5 | 4058831 | 1 | 1 | ELEMENT KIT, filter (Includes item 7)(Can be used with permanent anti-freeze) |
| 6 | 4055034 | 1 | 1 | PLATE, filter element, upper |
| 7 | 4054566 | 1 | 1 | GASKET, filter cover |
| 8 | 4055032 | 1 | 1 | COVER, filter |
| 9 | 4055033 | 2 | 2 | BOLT ASSEMBLY, filter cover (Includes washer) |
| 10 | 4377951 | 1 | - | BRACKET, filter mounting |
| 10 | 4386198 | - | 1 | BRACKET, filter mounting |
| | 919224 | 4 | 3 | CAPSCREW, 3/8"NC x 1-1/8" |
| | 904206 | 4 | 3 | LOCKWASHER, 3/8" |
| 11 | 4385933 | 1 | - | PLATE, filter adapting |
| | 919106 | 4 | - | CAPSCREW, socket-hd., 1/4"NF x 3/4" |
| 12 | 4255171 | 1 | 1 | VALVE, water shut-off (1/2" tube, 3/8"NPT male) |
| 13 | 4386199 | 1 | 1 | HOSE ASSEMBLY, water line to filter |
| | 920690 | 1 | 1 | ELBOW, flare type, 45°, 1/2" tube, 3/8"NPT male |
| 14 | 4385982 | 1 | - | HOSE ASSEMBLY, filter to water pump |
| 14 | 917750 | 1 | - | ELBOW, 45°, flare type, 90°, 3/8" tube, 3/8"NPT male |
| 14 | 4386200 | - | 1 | HOSE ASSEMBLY, filter to water pump |
| 14 | 919136 | - | 1 | ELBOW, 37° flare type, 90°, 3/8" tube, 3/8"NPT male |
| 15 | ------ | 1 | - | VALVE, water shut-off (3/8" tube, 1/4"NPT male)(Order one each VALVE 4255170, HOSE ASSEMBLY 4386200, BUSHING 901835 and ELBOW 919136) |
| 15 | 901839 | 1 | - | BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT |
| 15 | 4255170 | - | 1 | VALVE, water shut-off (3/8" tube, 3/8"NPT male) |
| 15 | 901835 | - | 1 | BUSHING, pipe reducing, brass, 1/2"NPT to 3/8"NPT |

(Continued)




RADIATOR AND MOUNTING (Models HD21A, F)

T-18148

## COOLANT FILTER (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 16 | 4254580 | 1 | 1 | CLAMP, water inlet hose |
| 17 | 4255010 | 1 | 1 | CLAMP, water outlet hose |
| | 916268 | 1 | 1 | CAPSCREW, 3/8"NC x 5/8" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 910324 | 1 | 1 | NUT, 3/8"NC |
| 18 | 4385093 | - | 1 | BRACKET, clamp supporting (Used prior to engine #21-4102) |
| | 4387807 | - | 1 | BRACKET, clamp supporting (Effective with engine #21-4102) |

NOTE: This design also effective on engines No. 21-3431, 21-3527, 21-3593, 21-3597, 21-3600, 21-3604, 21-3608, 21-3609, 21-3616, 21-3622, 21-3632, 21-3634, 21-3637, 21-3638, 21-3645, 21-3646, 21-3648, 21-3650, 21-3651, 21-3652, 21-3654, 21-3655, 21-3657, 21-3658, 21-3660, 21-3664, 21-3668, 21-3670, 21-3671, 21-3673, 21-3674, 21-3676, 21-3679, 21-3680, 21-3681, 21-3691, 21-3705

## RADIATOR AND MOUNTING

USAGE: Models HD21A, F

* Tractors prior to serial No. 9001
** Effective with tractor serial No. 9001

| | | | | |
|---|---|---|---|---|
| 1 | 081729 | 1 | 1 | RADIATOR ASSEMBLY (See page 271 for parts)(Standard) |
| | 632654 | 1 | 1 | RADIATOR ASSEMBLY (See page 271 for parts)(Special. Has armored tubes at rear of core to resist sand-blasting by push-type fan) |
| 2 | 061671 | 16 | 16 | SNUBBER, vibration, radiator mounting |
| 3 | 061655 | 8 | 8 | TUBE, spacing, vibration snubber |
| 4 | 061656 | 8 | 8 | WASHER, vibration snubber |
| 5 | 058936 | 8 | 8 | CAPSCREW, radiator mounting |
| | 904206 | 8 | 8 | LOCKWASHER, 3/8" |
| 6 | 081627 | 1 | 1 | GASKET, outlet elbow |
| 7 | 081288 | 1 | 1 | ELBOW, radiator outlet (Used prior to engine #21-3995) |
| | 633790 | - | 1 | ELBOW, radiator outlet (Effective with engine #21-3995) |
| 8 | 013058 | 2 | 2 | CAPSCREW, 3/8"NC x 1-1/4" |
| 9 | 056320 | 2 | 2 | CAPSCREW, 3/8"NC x 3" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 10 | 073539 | 2 | 2 | HOSE, inlet tube |
| 11 | 921914 | 4 | 4 | CLAMP, hose, 2-5/16" to 3-1/4" diam. |

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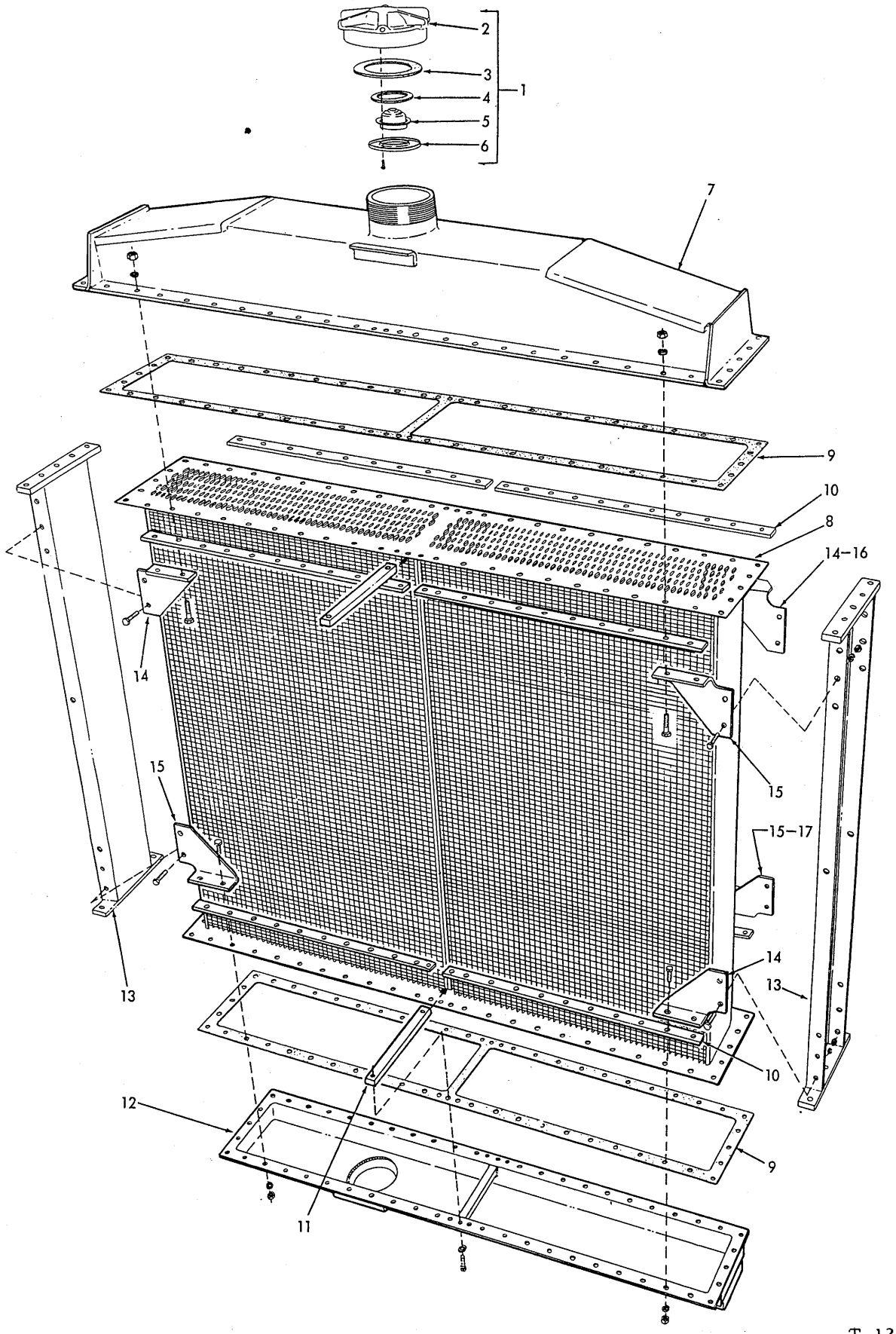
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 12 | 083468 | 1 | - | TUBE, engine inlet |
| | 094972 | - | 1 | TUBE, engine inlet (Used prior to engine #21-3683 excluding EXCEPTIONS listed below) |
| | 628920 | - | 1 | TUBE, engine inlet (Used on engines #21-3683 thru #21-3767 including EXCEPTIONS listed below) |
| | 631010 | - | 1 | TUBE, engine inlet (Used on engines #21-3768 thru #21-3994) |
| | 633792 | - | 1 | TUBE, engine inlet (Effective with engine #21-3995) |
| 13 | 083499 | 2 | 2 | BAFFLE, air, radiator top and bottom (angle type) |
| 14 | 083458 | 2 | 2 | BAFFLE, air, radiator top and bottom (flat type)(For standard radiator) |
| | 642632 | 2 | 2 | BAFFLE, air, radiator top and bottom (flat type)(For special radiator with armored core) |
| | 910335 | 8 | 8 | WASHER, plain, SAE std., 5/16" |
| 15 | 083647 | 1 | 1 | SCREEN, radiator (Standard. Mounts on rear of radiator. Not used with suction-type fan) |
| | 043646 | 8 | 8 | CAPSCREW, 5/16"NF x 1-1/4" |
| | 092665 | 8 | 8 | WASHER, plain |
| | 904205 | 8 | 8 | LOCKWASHER, 5/16" |
| | 913636 | 16 | 16 | NUT, 5/16"NF |
| | 083081 | 1 | 1 | SCREEN, radiator (Special Equipment. Mounts on front of radiator. Not used with push-type fan) |
| 16 | 083644 | 4 | 4 | ANGLE, retaining (For 083647 SCREEN only)(Used prior to tractor #7635) |
| | 632047 | 8 | 8 | WASHER, retaining (For 083647 SCREEN only)(Effective with tractor #7635) |
| 17 | 081611 | 2 | 2 | BAFFLE, air, radiator side |
| 18 | 911168 | 6 | 6 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 6 | 6 | LOCKWASHER, 5/16" |
| | 913636 | 6 | 6 | NUT, 5/16"NF |
| 19 | 092665 | 6 | 6 | WASHER, plain |
| 20 | 081614 | 1 | 1 | GASKET, radiator inlet |
| 21 | 095575 | 1 | 1 | RING, cushion |
| 22 | 076685 | 2 | 2 | SHIM, adjusting, support ring (1/32" thick. Use as required) |
| | 076684 | 1 | 1 | SHIM, adjusting, support ring (1/16" thick. Use as required) |
| 23 | 099137 | 1 | 1 | RING, radiator support |
| 24 | 012992 | 6 | 6 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" |
| 25 | 084240 | 1 | - | SUPPORT, radiator |
| | 090403 | - | 1 | SUPPORT, radiator |
| 26 | 012984 | 4 | 4 | CAPSCREW, 3/4"NF x 2-3/4" |
| 27 | 061689 | 4 | 4 | WASHER, plain |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 28 | 081717 | 1 | - | ROD, bracing, radiator support, left |
| | 639284 | - | 1 | BRACE, radiator support, left (If for tractors prior to #12148 also order 1 BOSS 060689) |
| | 911046 | 2 | 2 | NUT, 7/8"NF |
| 29 | 012984 | 1 | 1 | CAPSCREW, 3/4"NF x 2-3/4" |
| | 904369 | 1 | 1 | LOCKWASHER, 3/4" |
| 30 | 090402 | 1 | 1 | ROD, bracing, radiator support, right (Used prior to tractor #12148) |
| | 628958 | - | 1 | BRACE, radiator support, right (Effective with tractor #12148) |
| | 911046 | 2 | 2 | NUT, 7/8"NF |
| 31 | 012984 | 1 | 1 | CAPSCREW, 3/4"NF x 2-3/4" |
| | 904369 | 1 | 1 | LOCKWASHER, 3/4" |
| 32 | 060689 | - | 2 | BOSS, spacing, radiator support brace (Effective with tractor #12148) |
| 33 | 082608 | 1 | 1 | INLET, radiator |
| 34 | 035439 | 4 | 4 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 35 | 067884 | 2 | 2 | HOSE, inlet tube |
| 36 | 921914 | 4 | 4 | CLAMP, hose, 2-5/16" to 3-1/4" diam. |
| 37 | 081338 | 1 | - | TUBE, radiator inlet |
| | 092551 | - | 1 | TUBE, radiator inlet (Used prior to tractor #11001) |
| | 096031 | - | 1 | TUBE, radiator inlet (Effective with tractor #11001) |
| 38 | 081337 | 1 | - | ELBOW, engine outlet |
| | 092543 | - | 1 | ELBOW, engine outlet |
| 39 | 043886 | 2 | 2 | CAPSCREW, 7/16"NC x 1" |
| | 904207 | 2 | 2 | LOCKWASHER,7/16" |
| 40 | 4310257 | 1 | 1 | □GASKET, outlet elbow |
| 41 | 644960 | 1 | 1 | GUARD, fan |
| 42 | 036034 | 5 | 5 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 5 | 5 | LOCKWASHER, 3/8" |
| 43 | 044973 | 5 | 5 | WASHER, plain |

□Also see PACKAGED PARTS

EXCEPTIONS: (See item 12) Engines No. 21-3431, 21-3527, 21-3593, 21-3597, 21-3600, 21-3604, 21-3608, 21-3609, 21-3616, 21-3622, 21-3632, 21-3634, 21-3637, 21-3638, 21-3645, 21-3646, 21-3648, 21-3650, 21-3651, 21-3652, 21-3654, 21-3655, 21-3657, 21-3658, 21-3660, 21-3664, 21-3668, 21-3670, 21-3671, 21-3673, 21-3674, 21-3676, 21-3679, 21-3680, 21-3681, 21-3691, 21-3705



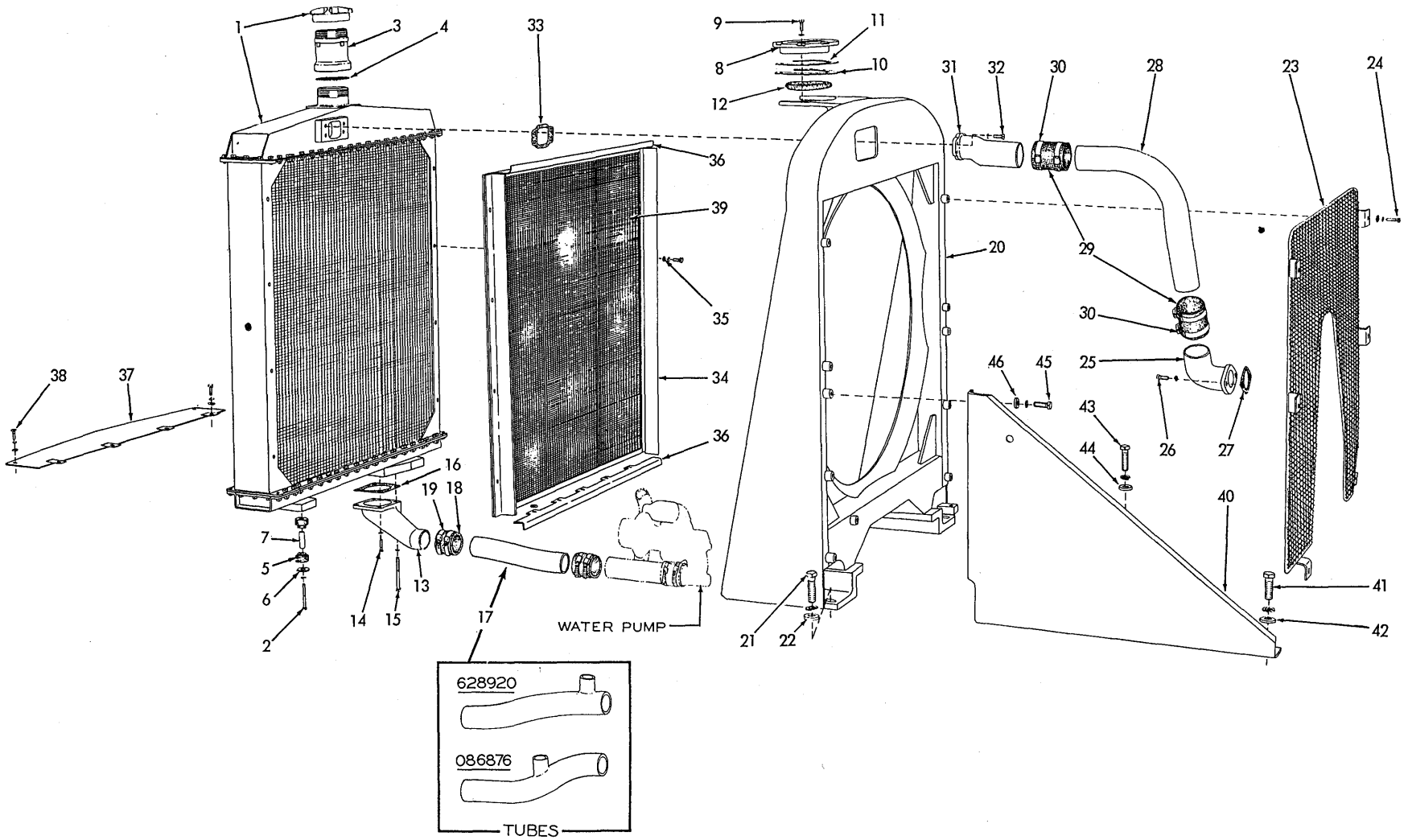

RADIATOR PARTS

# RADIATOR PARTS

* Models HD21A, F. See page 267
** Model HD21G. See page 273

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 058730 | 1 | 1 | CAP ASSEMBLY, water cooling radiator (Consists of items 2 thru 6) |
| 2 | ------ | 1 | 1 | CAP, radiator (Furnished only as part of item 1) |
| 3 | 059242 | 1 | 1 | GASKET, radiator cap |
| 4 | 059244 | 1 | 1 | GASKET, pressure valve |
| 5 | 059245 | 1 | 1 | VALVE, pressure |
| 6 | 059243 | 1 | 1 | RING, pressure valve retaining |
| | 914782 | 3 | 3 | SCREW, machine, rd-hd., brass, #5-40 x 3/8" |
| 7 | 083067 | 1 | - | TANK, top |
| | 089720 | - | 1 | TANK, top |
| | 903773 | 54 | 48 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 54 | 48 | LOCKWASHER,5/16" |
| | 911025 | 54 | 38 | NUT, 5/16"NC |
| 8 | 083071 | 1 | - | CORE (Standard) |
| | 632647 | 1 | - | CORE (Special. Has armored tubes at rear) |
| | 095642 | - | 1 | CORE (Used prior to tractor #12379) |
| | 632554 | - | 1 | CORE (Has armored tubes at rear)(Effective with tractor #12379) |
| 9 | 083599 | 2 | - | GASKET, core |
| | 091869 | - | 1 | GASKET SET, core (Consists of 5 cork strips. Enough for both ends of core) |
| 10 | 083072 | 8 | - | CLAMP, core flange |
| | 074679 | - | 4 | CLAMP, core flange |
| 11 | 083065 | 2 | - | CLAMP, core, center |
| | 903772 | 4 | - | CAPSCREW, 5/16"NC x 1" |
| | 904205 | 4 | - | LOCKWASHER, 5/16" |
| 12 | 083068 | 1 | - | TANK, bottom |
| | 089721 | - | 1 | TANK, bottom |
| | 903773 | 54 | 48 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 54 | 48 | LOCKWASHER, 5/16" |
| | 911025 | 48 | 38 | NUT, 5/16"NC |
| 13 | 083073 | 2 | - | SIDE |
| | 089724 | - | 2 | SIDE |
| | 915888 | - | 2 | SETSCREW, slotted-hd., cup-pt., 3/8"NC x 1-3/4" |
| | 903584 | - | 2 | NUT, jam, 3/8"NC |

(Continued)




T-18092

RADIATOR AND MOUNTING (Model HD21G)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 14 | 083069 | 4 | - | GUSSET, corner | |
| | 903772 | 8 | - | CAPSCREW, 5/16"NC x 1" | |
| | 904205 | 8 | - | LOCKWASHER, 5/16" | |
| | 911025 | 8 | - | NUT, 5/16"NC | |
| 15 | 083070 | 4 | - | GUSSET, corner | |
| | 903772 | 8 | - | CAPSCREW, 5/16"NC x 1" | |
| | 904205 | 8 | - | LOCKWASHER, 5/16" | |
| | 911025 | 8 | - | NUT, 5/16"NC | |
| 16 | 642254 | 2 | - | GUSSET, corner | For armored core radiator only |
| | 903772 | 4 | - | CAPSCREW, 5/16"NC x 1" | |
| | 904205 | 4 | - | LOCKWASHER, 5/16" | |
| | 911025 | 4 | - | NUT, 5/16"NC | |
| 17 | 642255 | 2 | - | GUSSET, corner | |
| | 903772 | 4 | - | CAPSCREW, 5/16"NC x 1" | |
| | 904205 | 4 | - | LOCKWASHER, 5/16" | |
| | 911025 | 4 | - | NUT, 5/16"NC | |

## RADIATOR AND MOUNTING

USAGE: Model HD21G

* Tractors prior to serial No. 9001
** Tractors serial No. 9001 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 1 | ------ | 1 | 1 | RADIATOR ASSEMBLY (See page 271 for parts)(Used prior to tractor #12379. Order RADIATOR ASSEMBLY 632453) | |
| 1 | 632453 | - | 1 | RADIATOR ASSEMBLY (Has armored tubes at rear of core to resist sand-blasting by fan. See page 271 for parts)(Effective with tractor #12379) | |
| 2 | 056320 | 6 | 6 | CAPSCREW, 3/8"NC x 3" | |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" | |
| 3 | 089483 | 1 | 1 | ADAPTER, filler cap | Used prior to tractor #11725, including #11798 |
| 4 | 089492 | 1 | 1 | GASKET, filler cap adapter | |
| 5 | 061671 | 12 | 12 | SNUBBER, vibration, radiator mounting | |
| 6 | 061656 | 6 | 6 | WASHER, vibration snubber | |
| 7 | 061655 | 6 | 6 | TUBE, spacing, vibration snubber | |
| 8 | 099137 | 1 | 1 | RING, radiator support | |
| 9 | 012992 | 6 | 6 | CAPSCREW, 3/8"NF x 1-1/4" | |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" | |
| 10 | 076685 | 2 | 2 | SHIM, adjusting, support ring (1/32" thick. Use as required) | |
| 11 | 076684 | 1 | 1 | SHIM, adjusting, support ring (1/16" thick. Use as required) | |
| 12 | 095575 | 1 | 1 | RING, cushion | |

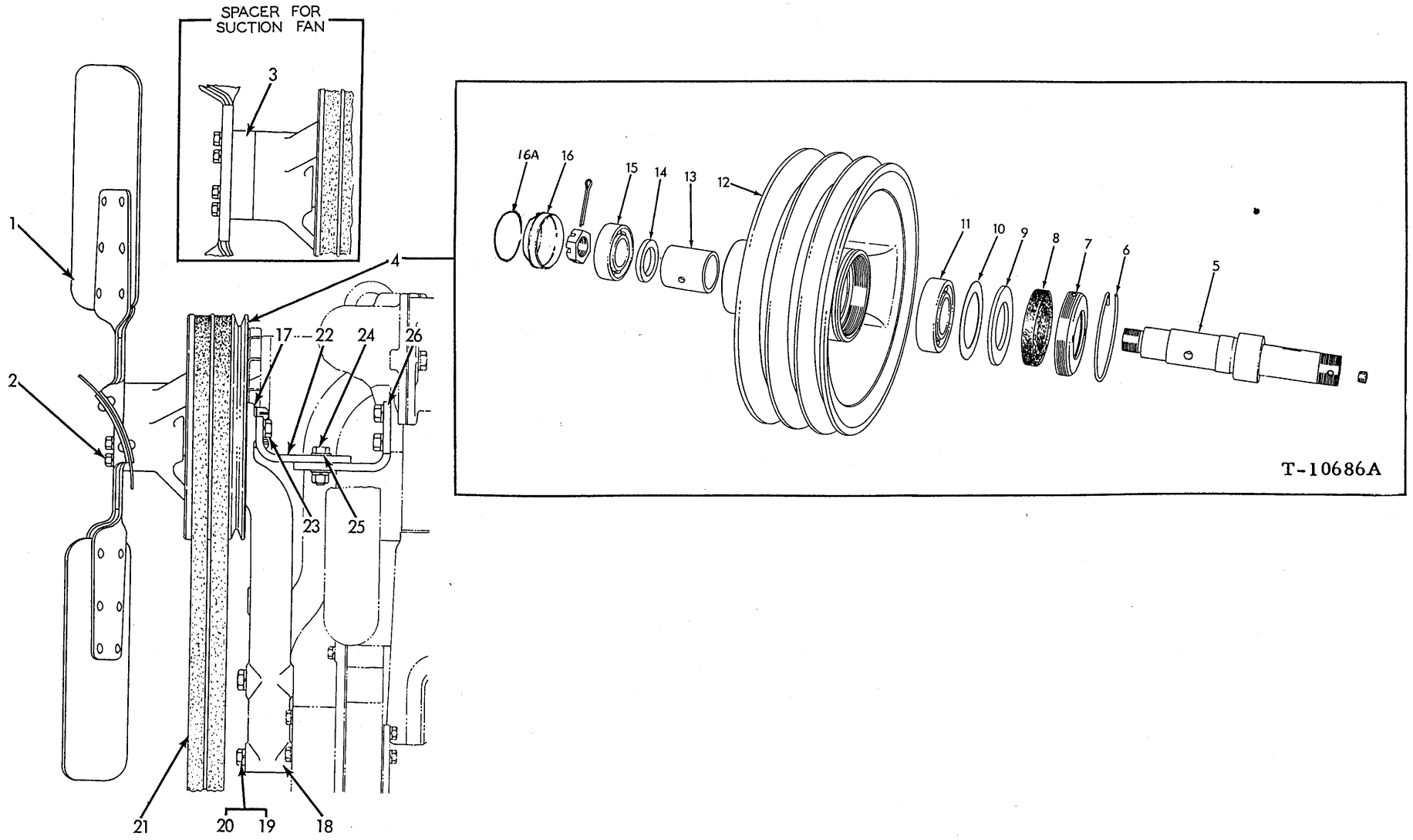
(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 13 | 081288 | 1 | - | ELBOW, radiator outlet |
| | 092328 | - | 1 | ELBOW, radiator outlet |
| 14 | 013058 | 2 | 3 | CAPSCREW, 3/8"NC x 1-1/4" |
| 15 | 056320 | 2 | - | CAPSCREW, 3/8"NC x 3" |
| | 040570 | - | 1 | CAPSCREW, 3/8"NC x 4-1/4" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 16 | 081627 | 1 | 1 | GASKET, outlet elbow |
| 17 | 086876 | 1 | - | TUBE, engine inlet |
| | 094972 | - | 1 | TUBE, engine inlet (Used prior to engine #21-3683 excluding #21-3635, #21-3653 and #21-3678) |
| | 628920 | - | 1 | TUBE, engine inlet (Used on engines #21-3683 thru #21-3767 including #21-3635, #21-3653 and #21-3678) |
| | 631010 | - | 1 | TUBE, engine inlet (Used on engines #21-3768 thru #21-3994) |
| | 633932 | - | 1 | TUBE, engine inlet (Effective with engine #21-3995) |
| 18 | 073539 | 2 | 2 | HOSE, inlet tube |
| 19 | 921914 | 4 | 4 | CLAMP, hose, 2-5/16" to 3-1/4" diam. |
| 20 | 086490 | 1 | 1 | SUPPORT, radiator |
| 21 | 012984 | 4 | 4 | CAPSCREW, 3/4"NF x 2-3/4" |
| | 904369 | 4 | 4 | LOCKWASHER, 3/4" |
| 22 | 061689 | 4 | 4 | WASHER, plain |
| 23 | 096135 | 1 | 1 | GUARD, fan |
| 24 | 012992 | 6 | 6 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" |
| | 044973 | 6 | 6 | WASHER, plain |
| 25 | 081337 | 1 | 1 | ELBOW, engine outlet (Used prior to tractor #11001) |
| | 092543 | - | 1 | ELBOW, engine outlet (Effective with tractor #11001) |
| 26 | 043886 | 2 | 2 | CAPSCREW, 7/16"NC x 1" |
| | 904207 | 2 | 2 | LOCKWASHER, 7/16" |
| 27 | 4310257 | 1 | 1 | □GASKET, outlet elbow |
| 28 | 085610 | 1 | - | TUBE, radiator inlet |
| | 092557 | - | 1 | TUBE, radiator inlet (Used prior to tractor #11001) |
| | 096123 | - | 1 | TUBE, radiator inlet (Effective with tractor #11001) |
| 29 | 067884 | 2 | 2 | HOSE, inlet tube |
| 30 | 921914 | 4 | 4 | CLAMP, hose, 2-5/16" to 3-1/4" diam. |
| 31 | 082608 | 1 | 1 | INLET, radiator |
| 32 | 035439 | 4 | 4 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 33 | 081614 | 1 | 1 | GASKET, radiator inlet |

□Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 34 | 087161 | 2 | 2 | BAFFLE, air, radiator side |
| | 911168 | 8 | 8 | CAPSCREW, 5/16"NF x 7/8" |
| | 904205 | 8 | 8 | LOCKWASHER, 5/16" |
| 35 | 092665 | 8 | 8 | WASHER, plain |
| 36 | 087062 | 2 | 2 | BAFFLE, air, radiator top and bottom, rear |
| | 092665 | 10 | 10 | WASHER, plain |
| 37 | 089488 | 1 | 1 | BAFFLE, air, radiator bottom, front |
| 38 | 036034 | 2 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 044973 | 2 | 2 | WASHER, plain (3/8" hole) |
| | 092665 | 4 | 4 | WASHER, plain (5/16" hole) |
| 39 | 087139 | 1 | 1 | SCREEN, radiator (Used prior to tractor #12379) |
| 40 | 087327 | 1 | 1 | FENDER, radiator support bracing, left |
| 40 | 087328 | 1 | 1 | FENDER, radiator support bracing, right |
| 41 | 012742 | 2 | 2 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | 2 | 2 | LOCKWASHER, 3/4" |
| 42 | 061689 | 2 | 2 | WASHER, plain |
| 43 | 035248 | 2 | 2 | CAPSCREW, 5/8"NF x 2-1/4" |
| | 904209 | 2 | 2 | LOCKWASHER, 5/8" |
| 44 | 064810 | 2 | 2 | WASHER, plain |
| 45 | 614478 | 6 | 6 | CAPSCREW, 1/2"NF x 1-3/8" |
| | 904208 | 6 | 6 | LOCKWASHER, 1/2" |
| 46 | 064531 | 6 | 6 | WASHER, plain |




T-12044

FAN (First type)

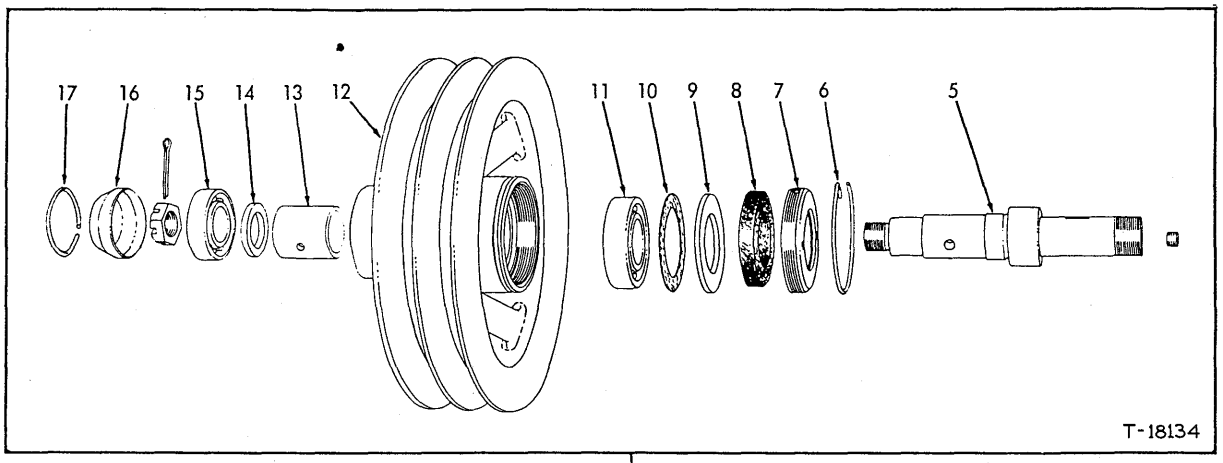
# F A N (First type)

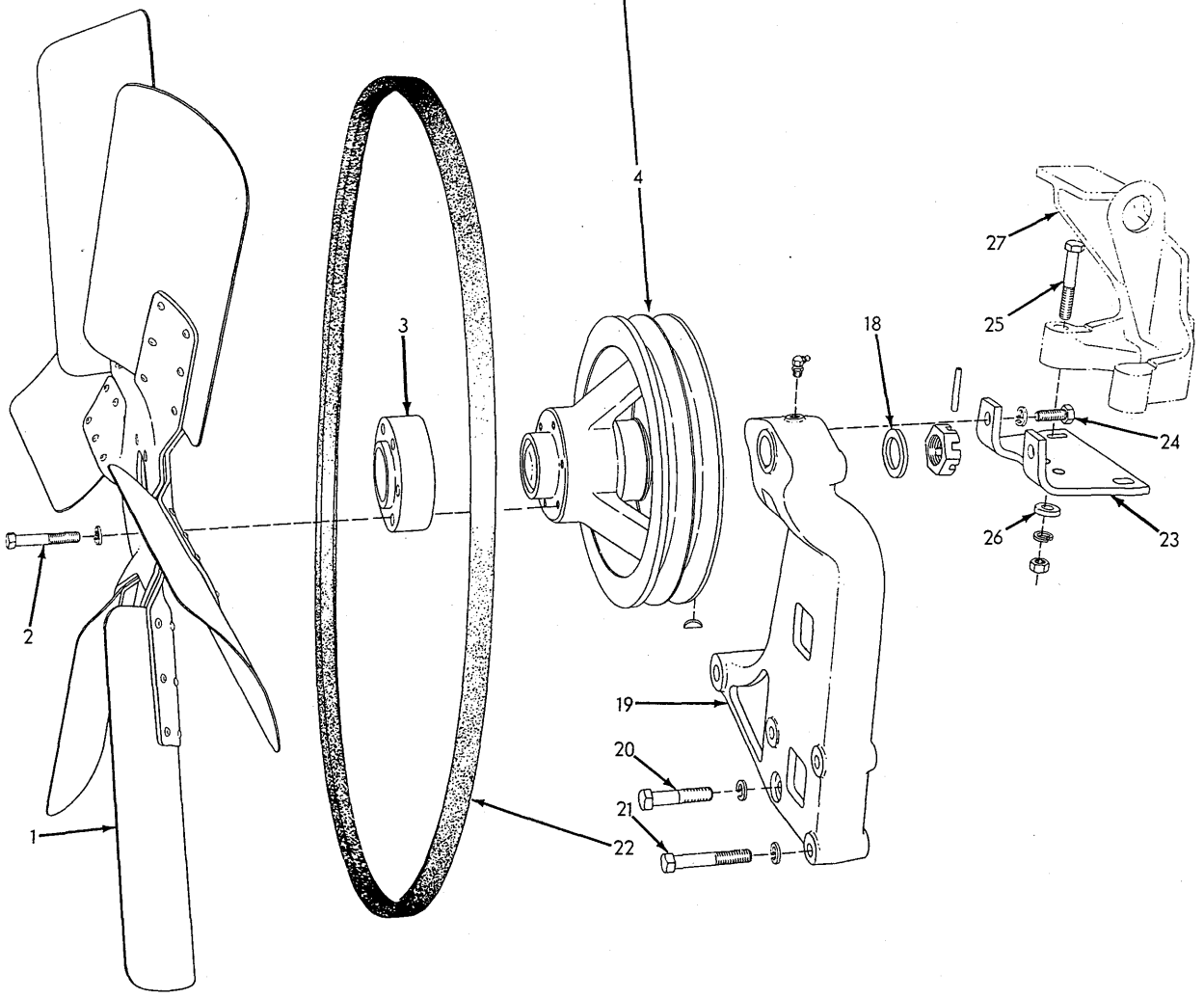
USAGE: Tractors prior to serial No. 9001

* Models HD21A, F
** Model HD21G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 078393 | 1 | - | FAN (Push type, 36" diam.)(Standard equipment) |
| | 083524 | - | 1 | FAN (Push type, 34" diam.) |
| | 065777 | 1 | - | FAN (Suction type, 36" diam.)(Special equipment) |
| 2 | 013058 | 6 | 6 | CAPSCREW, 3/8"NC x 1-1/4" (For push fans) |
| | 058936 | 6 | - | CAPSCREW, 3/8"NC x 2-3/4" (For suction fan) |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" |
| 3 | 083461 | 1 | - | SPACER, fan (For use with suction fan only) |
| 4 | 088562 | 1 | - | PULLEY ASSEMBLY (Consists of items 5 thru 16A) |
| | 088563 | - | 1 | PULLEY ASSEMBLY (Consists of items 5 thru 16A) |
| | 913798 | 1 | 1 | NUT, jam, slotted, 1-1/4"NF |
| | 915692 | 1 | 1 | PIN, roll, 1/4" x 1-7/8" |
| | 905122 | 1 | 1 | KEY, #7 woodruff, 1/8" x 3/4" |
| 5 | 082829 | 1 | 1 | SPINDLE |
| | 910230 | 1 | 1 | PLUG, pipe, slotted-hd., 1/8"NPT |
| | 915943 | 1 | 1 | NUT, jam, slotted, 3/4"NF |
| | 900808 | 1 | 1 | PIN, cotter, 1/8" x 1-1/2" |
| 6 | 4371707 | 1 | 1 | RING, snap, fan pulley |
| 7 | 4640973 | 1 | 1 | RETAINER, spindle sealing washer |
| 8 | 052106 | 1 | 1 | WASHER, spindle sealing (cork) |
| 9 | 4640975 | 1 | 1 | WASHER, retaining, rear bearing |
| 10 | 4640976 | 1 | 1 | GASKET, bearing retaining washer |
| 11 | 4253863 | 1 | 1 | BEARING, ball, rear |
| 12 | 088547 | 1 | - | PULLEY |
| | 088548 | - | 1 | PULLEY |
| 13 | 051715 | 1 | 1 | SLEEVE, spacing, spindle bearings |
| 14 | 4640978 | 1 | 1 | WASHER, spacing, front bearing |
| 15 | 4253862 | 1 | 1 | BEARING, ball, front |
| 16 | 088561 | 1 | 1 | CAP, pulley |
| 16A | 4042081 | 1 | 1 | RING, snap, cap retaining (Effective with tractor #7810) |
| 17 | 067962 | 1 | 1 | WASHER, plain |
| 18 | 082880 | 1 | - | BRACKET ASSEMBLY, fan mounting (Includes pivot pin for fan belt idler)(Used prior to tractor #7386) |
| | 084652 | 1 | - | BRACKET, fan mounting (Effective with tractor #7386) |
| | 085486 | - | 1 | BRACKET, fan mounting |
| | 915274 | 1 | 1 | FITTING, lubricating, 45°, 1/8"NPT |
| 19 | 041917 | 2 | 2 | CAPSCREW, 1/2"NC x 3-1/4" |
| 20 | 012871 | 2 | 2 | CAPSCREW, 1/2"NC x 2-3/4" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |

(Continued)




FAN (Second type)

## FAN (First type)(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 21 | 067529 | 2 | - | BELT, fan |
| | 087347 | - | 2 | BELT, fan |
| 22 | 083833 | 1 | 1 | BRACKET, fan bracing, front (Used prior to tractor #7386) |
| | 084645 | 1 | 1 | BRACKET, fan bracing, front (Effective with tractor #7386) |
| 23 | 035061 | 2 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| 24 | 035067 | 2 | - | CAPSCREW, 1/2"NF x 2" |
| | 057517 | - | 2 | CAPSCREW, 1/2"NF x 4" |
| | 087239 | - | 2 | SPACER (2" long. Not illustrated) |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | NUT, 1/2"NF |
| 25 | 064531 | 4 | 4 | WASHER, plain |
| 26 | 4372009 | 1 | 1 | BRACKET, fan bracing, rear |

## FAN (Second type)

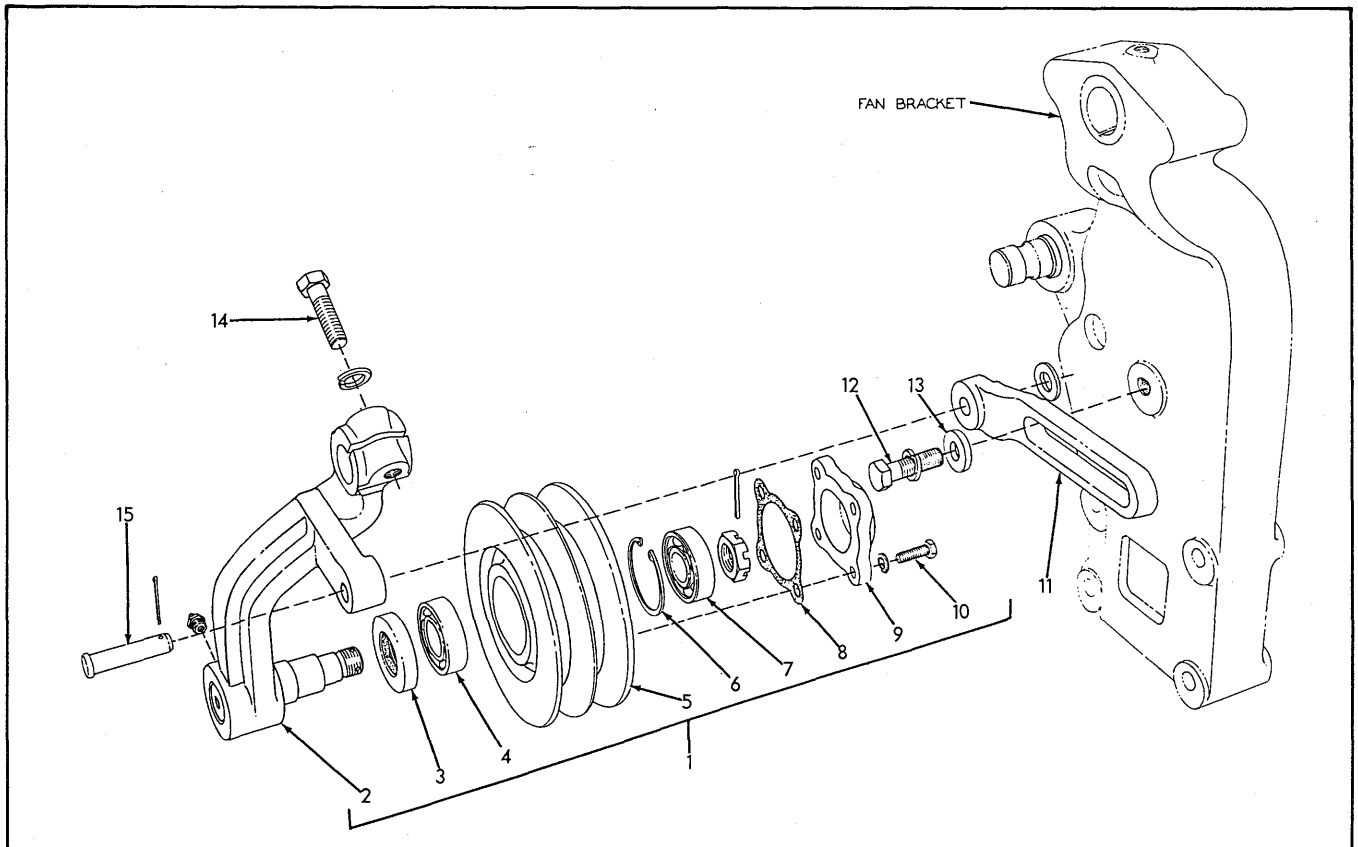
USAGE: Tractors serial No. 9001 and up

* Models HD21A,F
** Model HD21G

| | | | | |
|---|---|---|---|---|
| 1 | 078393 | 1 | - | FAN (Push type, 36" diam.)(Standard equipment) |
| | 083524 | - | 1 | FAN (Push type, 34" diam.) |
| | 065777 | 1 | - | FAN (Suction type, 36" diam.)(Special equipment) |
| 2 | 013058 | 6 | 6 | CAPSCREW, 3/8"NC x 1-1/4" (For push fans) |
| | 058936 | 6 | - | CAPSCREW, 3/8"NC x 2-3/4" (For suction fan) |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" |
| 3 | 083461 | 1 | - | SPACER, fan (For use with suction fan only) |
| 4 | 092175 | 1 | - | PULLEY ASSEMBLY (Consists of items 5 thru 17) |
| | 092355 | - | 1 | PULLEY ASSEMBLY (Consists of items 5 thru 17) |
| | 913798 | 1 | 1 | NUT, jam, slotted, 1-1/4"NF |
| | 915692 | 1 | 1 | PIN, roll, 1/4" x 1-7/8" |
| | 905122 | 1 | 1 | KEY, #7 woodruff, 1/8" x 3/4" |
| 5 | 082829 | 1 | 1 | SPINDLE |
| | 910230 | 1 | 1 | PLUG, pipe, slotted-hd., 1/8"NPT |
| | 915943 | 1 | 1 | NUT, jam, slotted, 3/4"NF |
| | 900808 | 1 | 1 | PIN, cotter, 1/8" x 1-1/2" |
| 6 | 4371707 | 1 | 1 | RING, snap, fan pulley |
| 7 | 4640973 | 1 | 1 | RETAINER, spindle sealing washer |
| 8 | 052106 | 1 | 1 | WASHER, spindle sealing (cork) |
| 9 | 4640975 | 1 | 1 | WASHER, retaining, rear bearing |
| 10 | 4640976 | 1 | 1 | GASKET, bearing retaining washer |
| 11 | 4253863 | 1 | 1 | BEARING, ball, rear |
| 12 | 092122 | 1 | - | PULLEY |
| | 092354 | - | 1 | PULLEY |
| 13 | 051715 | 1 | 1 | SLEEVE, spacing, spindle bearings |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 14 | 4640978 | 1 | 1 | WASHER, spacing, front bearing |
| 15 | 4253862 | 1 | 1 | BEARING, ball, front |
| 16 | 088561 | 1 | 1 | CAP, pulley |
| 17 | 4042081 | 1 | 1 | RING, snap, cap retaining |
| 18 | 067962 | 1 | 1 | WASHER, plain |
| 19 | 092143 | 1 | - | BRACKET, fan mounting (Used prior to engine #21-3995) |
| | 633632 | 1 | - | BRACKET, fan mounting (Effective with engine #21-3995) |
| | 092339 | - | 1 | BRACKET, fan mounting (Used prior to engine #21-3995) |
| | 633869 | - | 1 | BRACKET, fan mounting (Effective with engine #21-3995) |
| | 915274 | 1 | 1 | FITTING, lubricating, 45°, 1/8"NPT |
| 20 | 035712 | 1 | 1 | CAPSCREW, 1/2"NC x 2-1/4" (Effective with engine #21-3995) |
| 21 | 041917 | 3 | 3 | CAPSCREW, 1/2"NC x 3-1/4" (1 additional used prior to engine #21-3995) |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 22 | 087347 | 2 | 2 | BELT, fan (Furnished in matched pairs) |
| 23 | 092171 | 1 | 1 | BRACKET, fan bracing (Used prior to tractor #11001) |
| | 097256 | 1 | 1 | BRACKET, fan bracing (Effective with tractor #11001) |
| 24 | 035061 | 2 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| 25 | 070403 | 2 | 2 | CAPSCREW, 1/2"NF x 3" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | NUT, 1/2"NF |
| 26 | 064531 | 2 | 2 | WASHER, plain (1/4" thick) |
| 27 | ------ | - | - | EYE, engine lifting (See CYLINDER HEAD) |

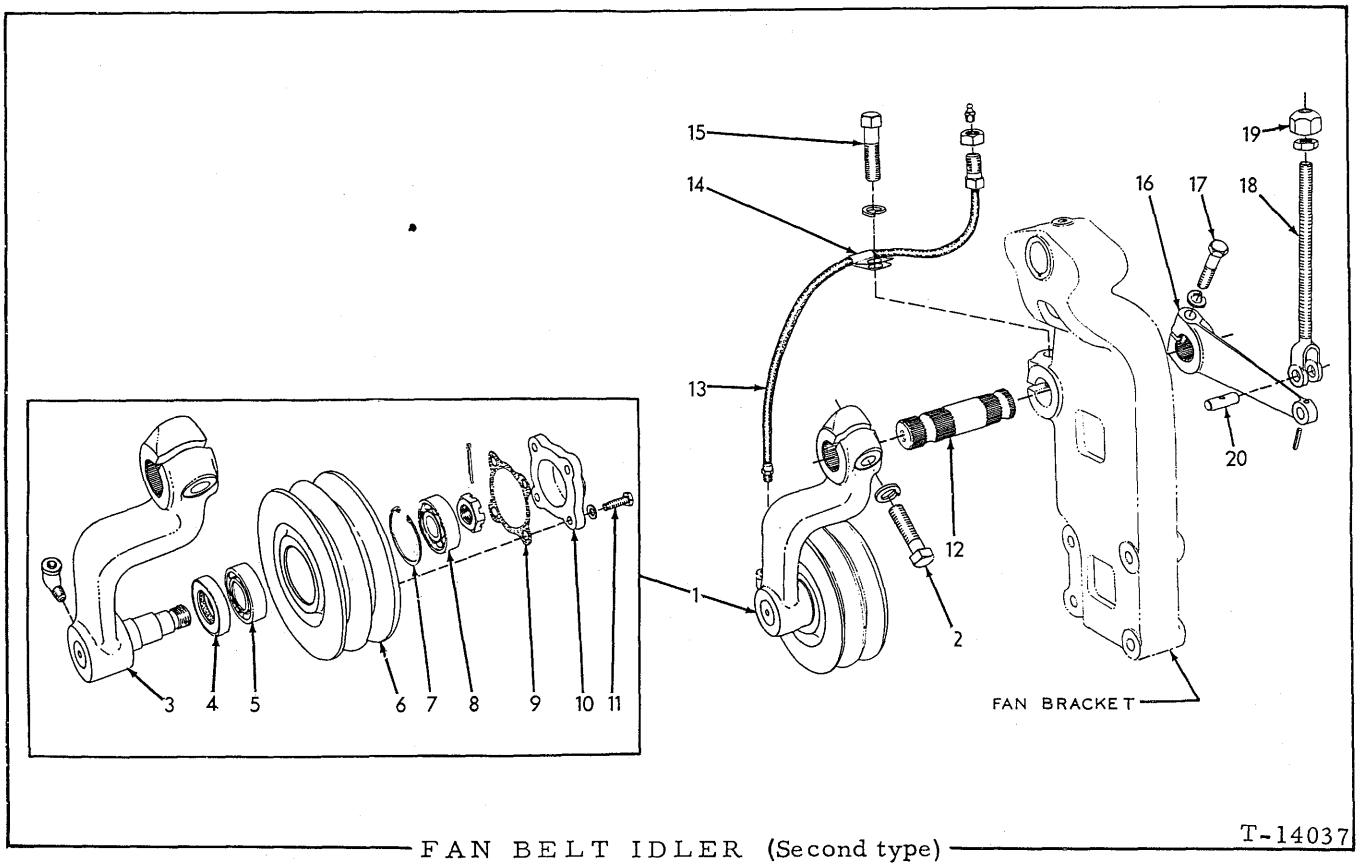



FAN BELT IDLER (First type) T-14039

# FAN BELT IDLER

USAGE: Tractors prior to serial No. 7386

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 083454 | 1 | IDLER ASSEMBLY (Consists of items 2 thru 10) |
| 2 | 083434 | 1 | ARM ASSEMBLY, mounting (Includes shaft which is not serviced separately) |
| | 914465 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| | 915943 | 1 | NUT, jam, slotted, 3/4"NF |
| | 900807 | 1 | PIN, cotter, 1/8" x 1-1/4" |
| 3 | 048720 | 1 | SEAL, oil |
| 4 | 042986 | 1 | BEARING, ball, front |
| 5 | 083431 | 1 | PULLEY |
| 6 | 056362 | 1 | RING, snap |
| 7 | 042979 | 1 | BEARING, ball, rear |
| 8 | 056370 | 1 | GASKET, pulley cap |
| 9 | 056361 | 1 | CAP, pulley |
| 10 | 045295 | 4 | CAPSCREW, 5/16"NC x 1" |
| | 904205 | 4 | LOCKWASHER, 5/16" |
| 11 | 082803 | 1 | LINK, belt adjustment |
| 12 | 035236 | 1 | CAPSCREW, 1/2"NC x 1-3/4" |
| 13 | 064531 | 1 | WASHER, plain |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 14 | 035236 | 1 | CAPSCREW, idler retaining (1/2"NC x 1-3/4") |
| 15 | 033074 | 1 | PIN, belt adjustment link |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |




FAN BELT IDLER (Second type)

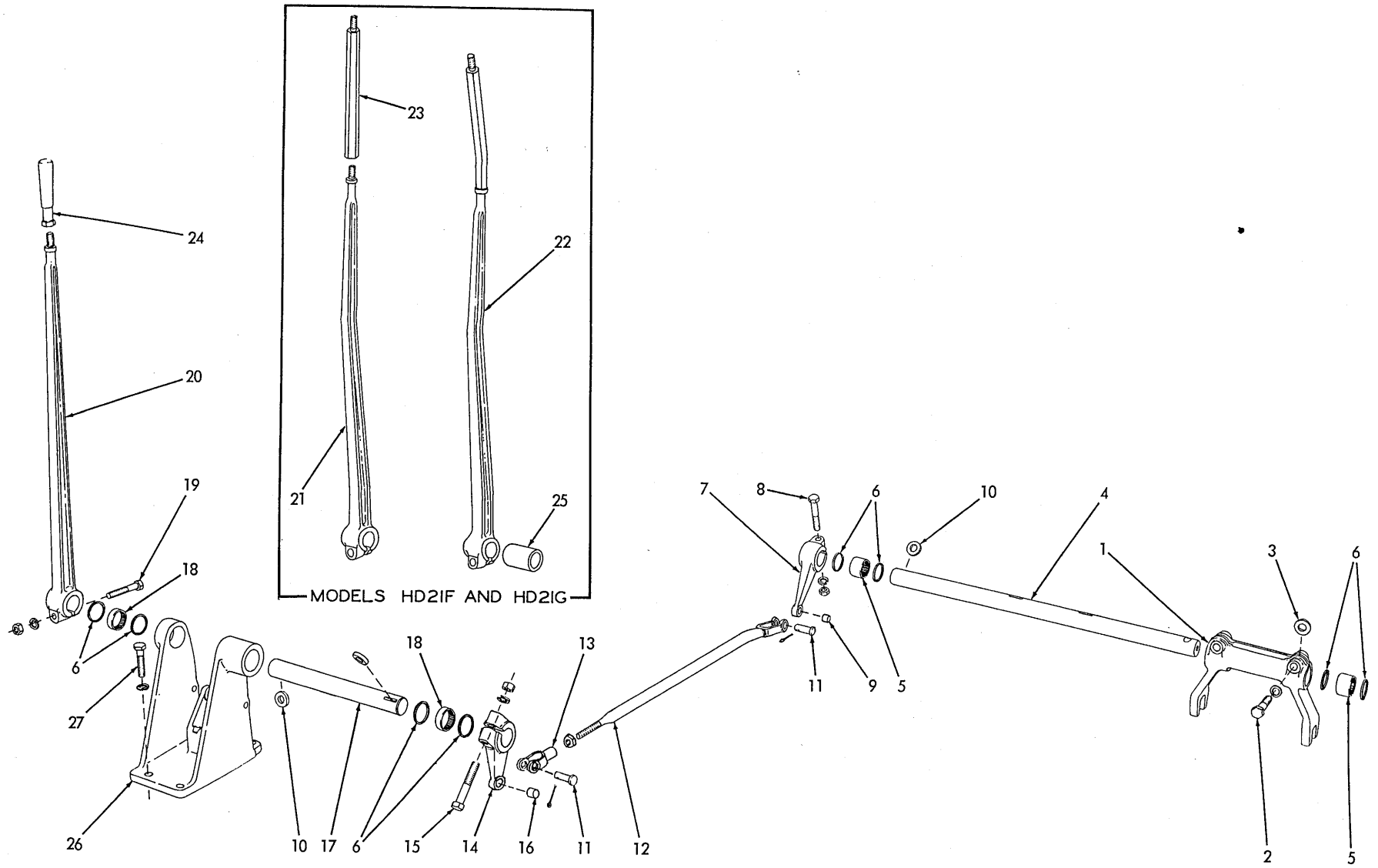
USAGE: Tractors serial No. 7386 thru 9000

* Used prior to tractor serial No. 8459
** Effective with tractor serial No. 8459

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 085567 | 1 | - | IDLER ASSEMBLY (Consists of items 3 thru 11. Has keywayed arm) (Order IDLER ASSEMBLY 090528, SHAFT 090439 and LEVER 090105) |
| | 090528 | - | 1 | IDLER ASSEMBLY (Consists of items 3 thru 11. Has splined arm) |
| 2 | 023755 | 1 | 1 | CAPSCREW, 5/8"NC x 2-1/4" |
| | 904209 | 1 | 1 | LOCKWASHER, 5/8" |
| 3 | 084664 | 1 | - | ARM ASSEMBLY, mounting (Includes shaft which is not serviced separately. Has keywayed bore) |
| | 090527 | - | 1 | ARM ASSEMBLY, mounting (Includes shaft which is not serviced separately. Has splined bore) |
| | 915943 | 1 | 1 | NUT, jam, slotted, 3/4"NF |
| | 900807 | 1 | 1 | PIN, cotter, 1/8" x 1-1/4" |
| | 907059 | 1 | 1 | ELBOW, street, 90°, 1/8"NPT |
| 4 | 048720 | 1 | 1 | SEAL, oil |
| 5 | 042986 | 1 | 1 | BEARING, ball, front |
| 6 | 083431 | 1 | 1 | PULLEY |
| 7 | 056362 | 1 | 1 | RING, snap |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 8 | 042979 | 1 | 1 | BEARING, ball, rear |
| 9 | 056370 | 1 | 1 | GASKET, pulley cap |
| 10 | 056361 | 1 | 1 | CAP, pulley |
| 11 | 045295 | 4 | 4 | CAPSCREW, 5/16"NC x 1" |
| | 904205 | 4 | 4 | LOCKWASHER, 5/16" |
| 12 | 084648 | 1 | - | SHAFT, idler mounting (keywayed) |
| | 905126 | 1 | - | KEY, #15 woodruff, 1/4" x 1" |
| | 036997 | 1 | - | KEY, #13 woodruff, hardened, 3/16" x 1" |
| | 090439 | - | 1 | SHAFT, idler mounting (splined) |
| 13 | 045496 | 1 | 1 | HOSE, lubricating |
| | 914465 | 1 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| | 911049 | 1 | 1 | NUT, jam, 5/8"NF |
| 14 | 031456 | 1 | 1 | CLIP, hose supporting |
| 15 | 023755 | 1 | 1 | CAPSCREW, fan bracket (5/8"NC x 2-1/4") |
| | 904209 | 1 | 1 | LOCKWASHER, 5/8" |
| 16 | 084647 | 1 | - | LEVER, idler adjustment (keywayed)(Used prior to tractor #8098) |
| | 089682 | 1 | - | LEVER, idler adjustment (keywayed)(Effective with tractor #8098) |
| | 090105 | - | 1 | LEVER, idler adjustment (splined) |
| 17 | 035712 | 1 | 1 | CAPSCREW, 1/2"NC x 2-1/4" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| 18 | 084644 | 1 | 1 | ROD, adjustment (9" long)(Not used on HD21G tractors prior to #8459) |
| | 090419 | 1 | - | ROD, adjustment (11" long)(Model HD21G only) |
| | 913830 | 1 | 1 | NUT, jam, 1/2"NF |
| 19 | 060774 | 1 | 1 | NUT, adjustment rod |
| 20 | 917648 | 1 | - | PIN, yoke, 1/2" diam. (adjustment rod)(Used prior to tractor #8098) |
| | 910967 | 1 | - | PIN, cotter, 1/8" x 7/8" |
| | 089318 | 1 | 1 | PIN, adjustment rod (Effective with tractor #8098) |
| | 916001 | 1 | 1 | PIN, roll, 3/16" x 1" |




T-11265

ENGINE CLUTCH CONTROL

# ENGINE CLUTCH CONTROL

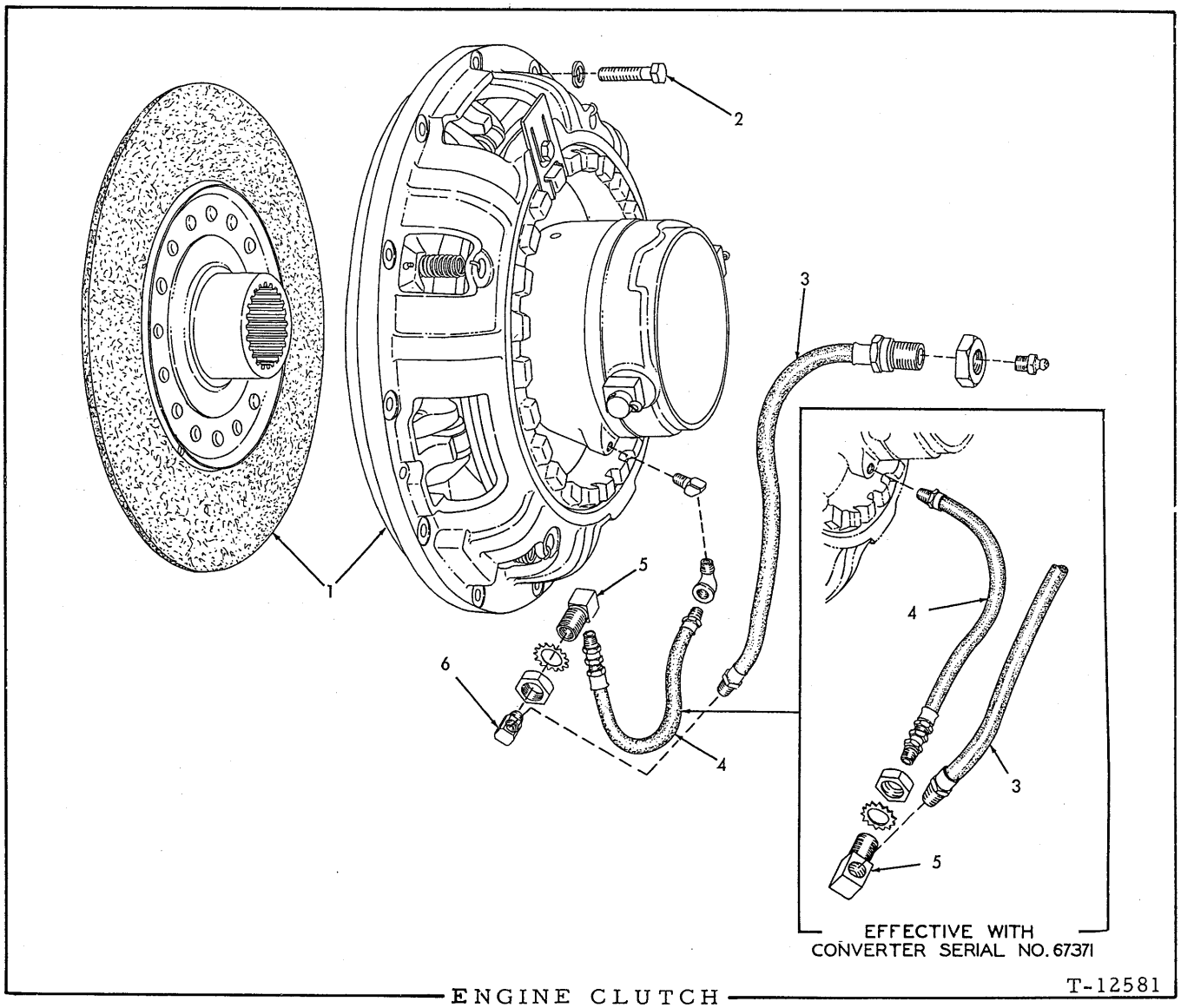
* Model HD21A
** Model HD21F
*** Model HD21G

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 054461 | 1 | 1 | 1 | FORK, clutch shifting |
| 2 | 921556 | 2 | 2 | 2 | CAPSCREW, 1/2"NC x 2" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| 3 | 052747 | 2 | 2 | 2 | KEY, clutch shifting fork |
| 4 | 075775 | 1 | 1 | 1 | SHAFT, shifting fork (Used prior to tractor #8566) |
| | 091562 | 1 | 1 | 1 | SHAFT, shifting fork (Effective with tractor #8566) |
| 5 | 604435 | 2 | 2 | 2 | BEARING, needle, shifting fork shaft |
| 6 | 053243 | 8 | 8 | 8 | SEAL, dust, operating shafts |
| 7 | 052745 | 1 | 1 | 1 | LEVER ASSEMBLY, clutch (Includes item 9) |
| 8 | 035278 | 1 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 9 | 049988 | 1 | 1 | 1 | BUSHING, intermediate lever (steel) |
| 10 | 052747 | 3 | 3 | 3 | KEY, control levers |
| 11 | 049993 | 2 | 2 | 2 | PIN, control rod yokes |
| | 900805 | 2 | 2 | 2 | PIN, cotter, 1/8" x 3/4" |
| 12 | 093021 | 1 | 1 | 1 | ROD, control |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 13 | 068389 | 1 | 1 | 1 | YOKE, control rod |
| 14 | 082221 | 1 | 1 | - | LEVER ASSEMBLY, intermediate (Includes item 16) |
| | 052745 | - | - | 1 | LEVER ASSEMBLY, intermediate (Includes item 16) |
| 15 | 035278 | 1 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 16 | 049988 | 1 | 1 | 1 | BUSHING, clutch lever (steel) |
| 17 | 052744 | 1 | - | - | SHAFT, operating lever (11-3/8" long) |
| | 074049 | - | 1 | 1 | SHAFT, operating lever (8-1/2" long)(Not used on Model HD21F after tractor #12014) |
| | 630992 | - | 1 | - | SHAFT, operating lever (8-1/2" long)(Effective with tractor #12015) |
| 18 | 053244 | 2 | 2 | 2 | BEARING, needle, operating lever shafts |
| 19 | 035278 | 1 | 1 | 1 | CAPSCREW, operating lever (1/2"NF x 2-3/4") |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 20 | 052741 | 1 | - | - | LEVER, operating |
| 21 | 079321 | - | 1 | 1 | LEVER, operating (Offset)(Not used on Model HD21G effective with tractor #9001) |
| 22 | 092747 | - | - | 1 | LEVER, operating (long type)(Effective with tractor #9001) |
| 23 | 089574 | - | 1 | 1 | EXTENSION, operating lever (Used with LEVER 079321 only) |
| 24 | 078620 | 1 | 1 | 1 | GRIP, operating lever |

(Continued)

## ENGINE CLUTCH CONTROL (Continued)

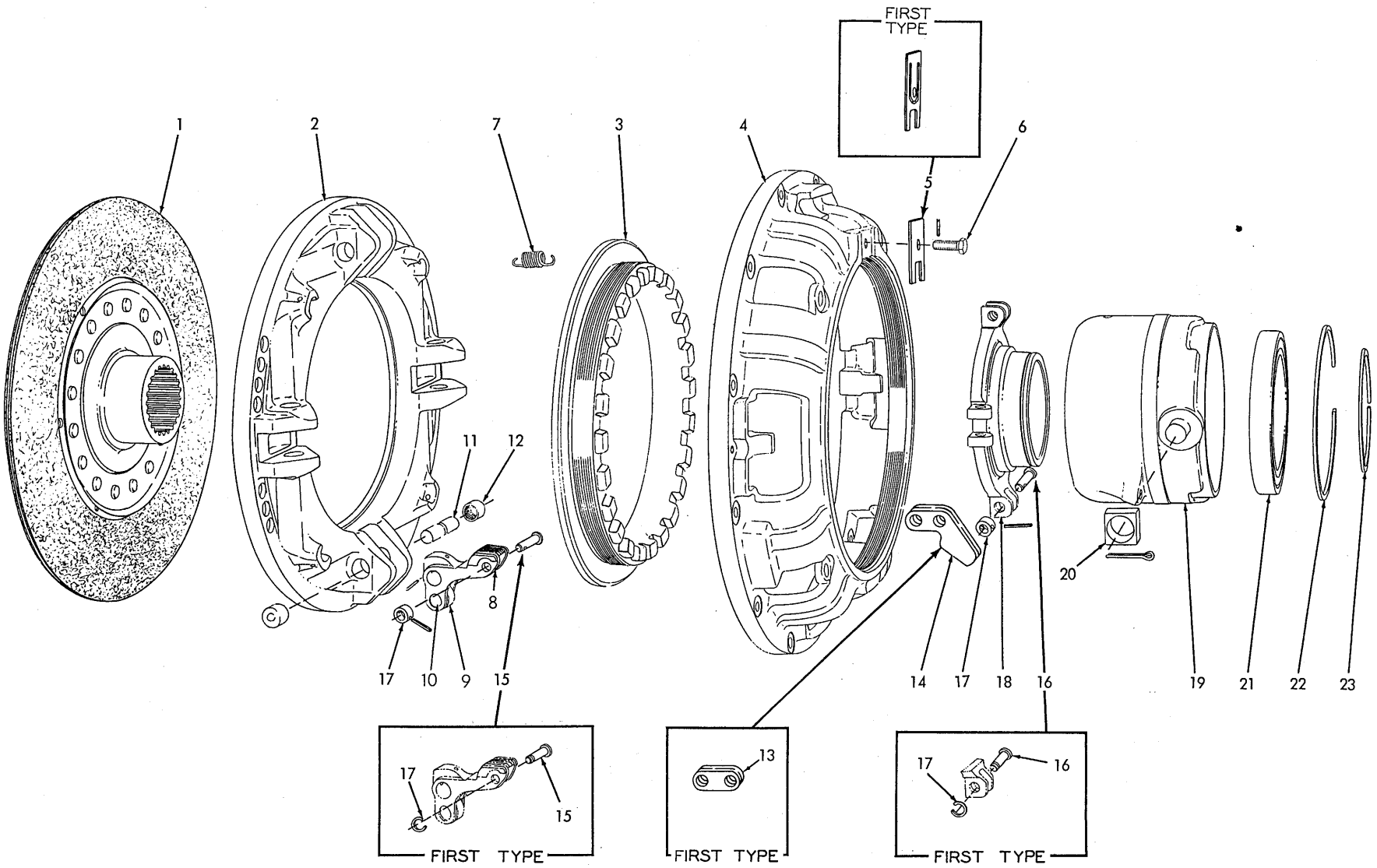
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 25 | 074051 | - | 1 | 1 | SPACER, operating lever (2-11/16" long)(Not used on Model HD21F after tractor #12014) |
| 26 | 058076 | 1 | - | - | BRACKET, operating lever shaft (Used prior to tractor #12001, excluding tractors #11808 and #11809) |
| | 623064 | 1 | - | - | BRACKET, operating lever shaft (Effective with tractor #12001, including tractors #11808 and #11809) |
| | 074039 | - | 1 | 1 | BRACKET, operating lever shaft (Not used on Model HD21F after tractor #12000, or on Model HD21G after tractor #11724, excluding #11798) |
| | 622602 | - | 1 | 1 | BRACKET, operating lever shaft (Effective on Model HD21F with tractor #12001, also on Model HD21G with tractor #11725, excluding #11798) |
| 27 | 035067 | 4 | - | 4 | CAPSCREW, 1/2"NF x 2" |
| | 070403 | - | 4 | - | CAPSCREW, 1/2"NF x 3" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |




ENGINE CLUTCH T-12581

# ENGINE CLUTCH

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 091463 | 1 | CLUTCH ASSEMBLY (See page 289 for parts)(Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 622187 | 1 | CLUTCH ASSEMBLY (Has ceramic facings. See page 289 for parts) (Effective on Model HD21G with tractor #11725, excluding #11798) |
| 2 | 070960 | 12 | CAPSCREW, 3/8"NC x 1-1/2" |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| 3 | 074065 | 1 | HOSE, lubricating, upper (25" long)(Models HD21A, F) |
| | 076322 | 1 | HOSE, lubricating, upper (31" long)(Model HD21G only) |
| | 911036 | 1 | NUT, jam, 5/8"NC |
| | 914465 | 1 | FITTING, lubricating, straight, 1/8"NPT (Not for HD21G) |
| | 915274 | 1 | FITTING, lubricating, 45°, 1/8"NPT (HD21G only) |
| 4 | 621813 | 1 | HOSE, lubricating, shifting sleeve bearing |
| | 915399 | 1 | ELBOW, street, brass, 90°, 3/8"NPT — Used prior to torque converter #67371 |
| | 914464 | 1 | ELBOW, lubricating fitting, 45°, 1/8"NPT — Used prior to torque converter #67371 |
| 5 | 090652 | 1 | FITTING, elbow, lubricating hose |
| | 910543 | 1 | LOCKWASHER, external teeth, 5/8" |
| | 911049 | 1 | NUT, jam, 5/8"NF |
| 6 | 605794 | 1 | ELBOW, lubricating fitting (90°, 1/8"NPT male and female ends) (Used prior to torque converter #67371) |




ENGINE CLUTCH PARTS

T-12580

# ENGINE CLUTCH PARTS

USAGE: See page 287

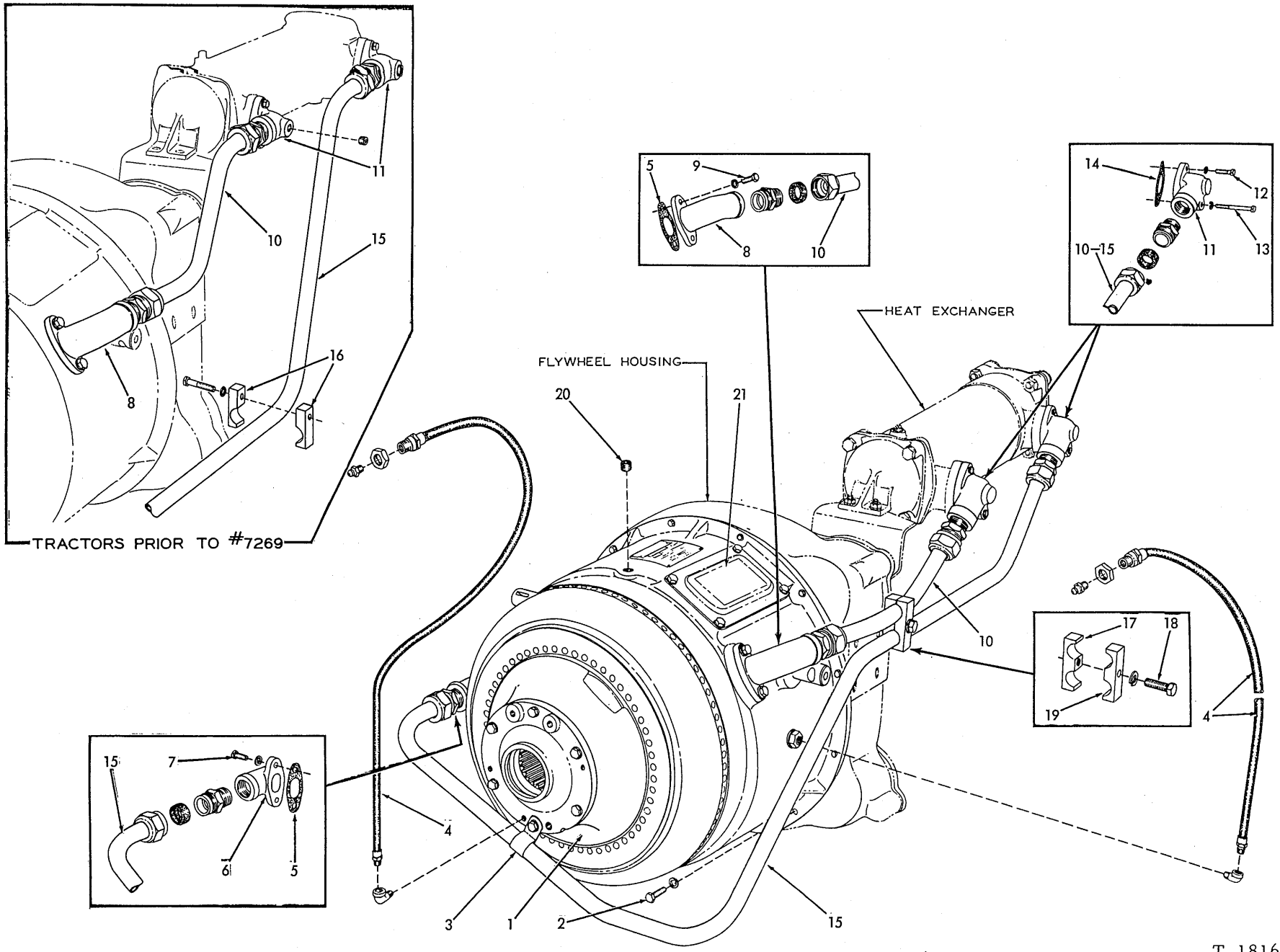
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 058867 | 1 | PLATE ASSEMBLY, driven (Includes Raybestos facings which are not serviced separately)(Used prior to tractor #11561. Will fit later units also) |
| | 095569 | 1 | PLATE ASSEMBLY, driven (Includes feramic facings which are not serviced separately)(Effective with HD21A, F tractors #11561. Not used on Model HD21G tractors after #11724, excluding #11798) |
| | 098323 | 1 | PLATE ASSEMBLY, driven (Includes ceramic facings)(Effective on Model HD21G tractors #11725, excluding #11798) |
| 2 | 082464 | 1 | PLATE, pressure |
| 3 | 620486 | 1 | RING, adjusting (If for tractors prior to #11714 also order 1 LOCK 620485) |
| 4 | 620487 | 1 | PLATE, back |
| 5 | 082139 | 1 | LOCK, adjusting ring (Used prior to tractor #11714) |
| | 620485 | 1 | LOCK, adjusting ring (Effective with tractor #11714) |
| 6 | 082140 | 1 | CAPSCREW, drilled end, 3/8"NC x 1" |
| | 917735 | 1 | PIN, roll, 3/32" x 9/16" |
| 7 | 082148 | 4 | SPRING, pressure plate retracting |
| 8 | ------ | 4 | LEVER ASSEMBLY, pressure plate (Each includes 1 pin and 1 bearing which are not serviced separately)(Used prior to torque converter serial #62973; approx. tractor #7687)(Order item 24) |
| | 088499 | 4 | LEVER ASSEMBLY, pressure plate (Includes items 9 and 10) (Effective with torque converter serial #62973; approx. tractor #7687)(Also see item 24) |
| 9 | 629038 | 4 | BEARING, needle, pressure plate lever |
| 10 | 629037 | 4 | PIN, pressure plate lever bearing |
| 11 | 082502 | 4 | PIN, pressure plate lever |
| | 916202 | 4 | PIN, roll, 1/8" x 7/8" (Also see item 24) |
| 12 | 082504 | 8 | BEARING, needle, pressure plate lever pin (Also see item 24) |
| 13 | 634958 | 4 | LINK, pressure plate lever (Used prior to torque converter serial #62973; approx. tractor #7687)(Recommend order item 24) |
| 14 | 634959 | 4 | LINK, pressure plate lever (Effective with torque converter serial #62973; approx. tractor #7687)(Also see item 24) |
| 15 | ------ | 4 | PIN, pressure plate lever (Used prior to tractor #9100)(Order 1 PIN 094481, 1 COLLAR 094483 and 1 PIN 919180) |
| | 094481 | 4 | PIN, pressure plate lever (Effective with tractor #9100)(Also see item 24) |

(Continued)

## ENGINE CLUTCH PARTS (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 16 | ------ | 4 | PIN, shifting sleeve collar (Used prior to tractor #9100)(Order 1 PIN 094482, 1 COLLAR 094483 and 1 PIN 919180) |
| | 094482 | 4 | PIN, shifting sleeve collar (Effective with tractor. #9100)(Also see item 24) |
| 17 | 058691 | 8 | RING, pin retaining (Used prior to tractor #9100) |
| | 094483 | 8 | COLLAR, pin retaining (Effective with tractor #9100)(Also see item 24) |
| | 919180 | 8 | PIN, roll, 1/8" x 5/8" |
| 18 | 082391 | 1 | COLLAR, shifting sleeve |
| 19 | 058862 | 1 | SLEEVE, shifting (Used prior to tractor #8566, including #8583) |
| | 091490 | 1 | SLEEVE, shifting (Effective with tractor #8566, excluding #8583) |
| | 900938 | 2 | PIN, cotter, 3/16" x 1" |
| 20 | 054459 | 2 | BLOCK, shifting sleeve |
| 21 | 054363 | 1 | BEARING, ball, shifting sleeve |
| 22 | 054362 | 1 | RING, retaining, shifting sleeve bearing (large) |
| 23 | 054364 | 1 | RING, retaining, shifting sleeve bearing (small) |
| 24 | 088500 | 1 | LEVER KIT, pressure plate (Conplete set of parts for converting clutch assemblies used with converters prior to serial No. 62973; items 8, 12, 14 thru 17 and PIN 916202)(Not illustrated) |

MEMO




TORQUE CONVERTER AND PIPING (First type)

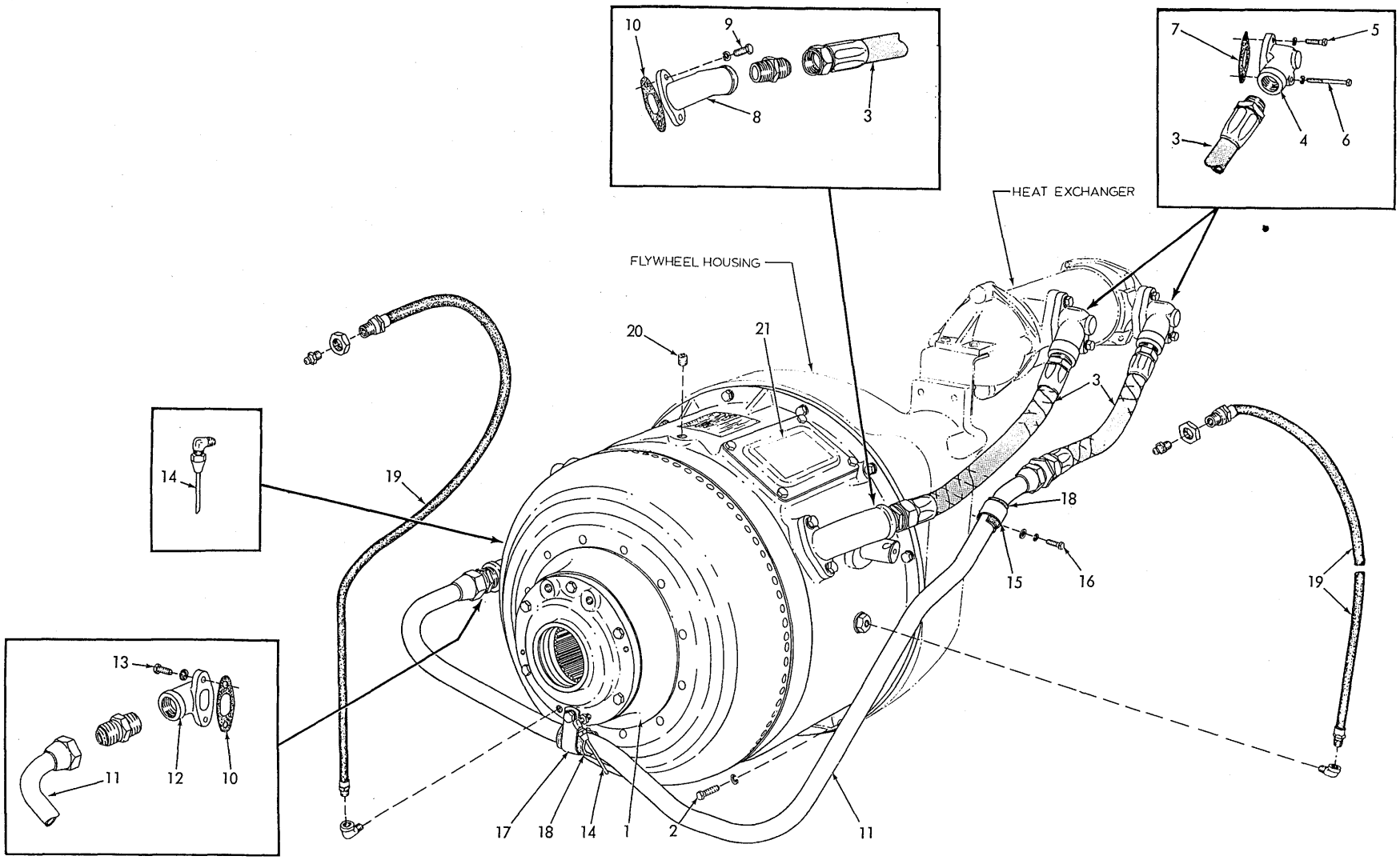
T-18165

# TORQUE CONVERTER AND PIPING

USAGE: Tractors prior to serial No. 11001

* Used prior to tractor serial No. 7269.
** Effective with tractor serial No. 7269.

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | 1 | CONVERTER ASSEMBLY, torque (Used prior to tractor #8566, including #8583. See page 297 for parts)(Order 1 CONVERTER ASSEMBLY 093243 and 1 SLEEVE 091490) |
| 1 | 093243 | - | 1 | CONVERTER ASSEMBLY, torque (Effective with tractor #8566, excluding #8583. See page 297 for parts |
| 2 | 013058 | 12 | 12 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 12 | 12 | LOCKWASHER, 3/8" |
| | | | | NOTE: Each converter assembly listed above includes engine clutch throwout mechanism and lubricating hoses. |
| 3 | 041303 | 1 | 1 | CLIP, tube supporting (1"diam.,13/32" bolt-hole) |
| 4 | 074066 | 2 | 2 | HOSE, lubricating, torque converter bearings |
| | 907059 | 2 | 2 | ELBOW, street, 90°, 1/8"NPT |
| | 911036 | 2 | 2 | NUT, jam, 5/8"NC |
| | 914465 | 2 | 2 | FITTING, lubricating, straight, 1/8"NPT (Not for HD21G) |
| | 915274 | 2 | 2 | FITTING, lubricating, 45°, 1/8"NPT (For HD21G only) |
| 5 | 053173 | 2 | 2 | GASKET, elbow to converter |
| 6 | 080990 | 1 | 1 | ELBOW, outlet |
| 7 | 035439 | 2 | 2 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| 8 | 093909 | 1 | 1 | ELBOW, inlet |
| 9 | 013058 | 2 | 2 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| 10 | 081713 | 1 | - | TUBE, fluid return, heat exchanger to converter |
| 10 | 084654 | - | 1 | TUBE, fluid return, heat exchanger to converter |
| | 918566 | 2 | 2 | NUT, Sealastic, 1" tube |
| | 915535 | 2 | 2 | RING, Sealastic, 1" tube, (Includes ferrule) |
| | 915534 | 2 | 2 | CONNECTOR, Sealastic, 1" tube, 1"NPT male |
| 11 | 075694 | 2 | - | ELBOW, heat exchanger tube connection |
| 11 | 907070 | 2 | - | PLUG, pipe, socket-hd., 1/4"NPT |
| 11 | 084610 | - | 2 | ELBOW, heat exchanger tube connection |
| 12 | 037450 | 4 | 2 | CAPSCREW, 5/16"NC x 1-1/4" |
| 13 | 086546 | - | 2 | CAPSCREW, 5/16"NC x 2-3/4" |
| | 904205 | 4 | 4 | LOCKWASHER, 5/16" |
| 14 | 075700 | 2 | 2 | GASKET, heat exchanger elbow |
| 15 | 081694 | 1 | - | TUBE, fluid discharge, converter to heat exchanger |
| 15 | 084676 | - | 1 | TUBE, fluid discharge, converter to heat exchanger |
| | 918566 | 2 | 2 | NUT, Sealastic, 1" tube |
| | 915535 | 2 | 2 | RING, Sealastic, 1" tube (Includes ferrule) |
| | 915534 | 2 | 2 | CONNECTOR, Sealastic, 1" tube, 1"NPT male |
| 16 | 044614 | 2 | - | CLAMP, heat exchanger tube (two halves) |
| | 913619 | 2 | - | CAPSCREW, 3/8"NF x 2-1/4" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| 17 | 084679 | - | 1 | CLAMP, heat exchanger tubes, inner half (threaded hole) |
| 18 | 035018 | - | 1 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | - | 1 | LOCKWASHER, 1/2" |
| 19 | 084678 | - | 1 | CLAMP, heat exchanger tubes, outer half (plain hole) |
| 20 | 051496 | 1 | 1 | PLUG, thread protecting, lifting hole |
| 21 | ------ | 1 | 1 | TRANSFER (See PAINTING AND MARKING) |




TORQUE CONVERTER AND PIPING (Second type)

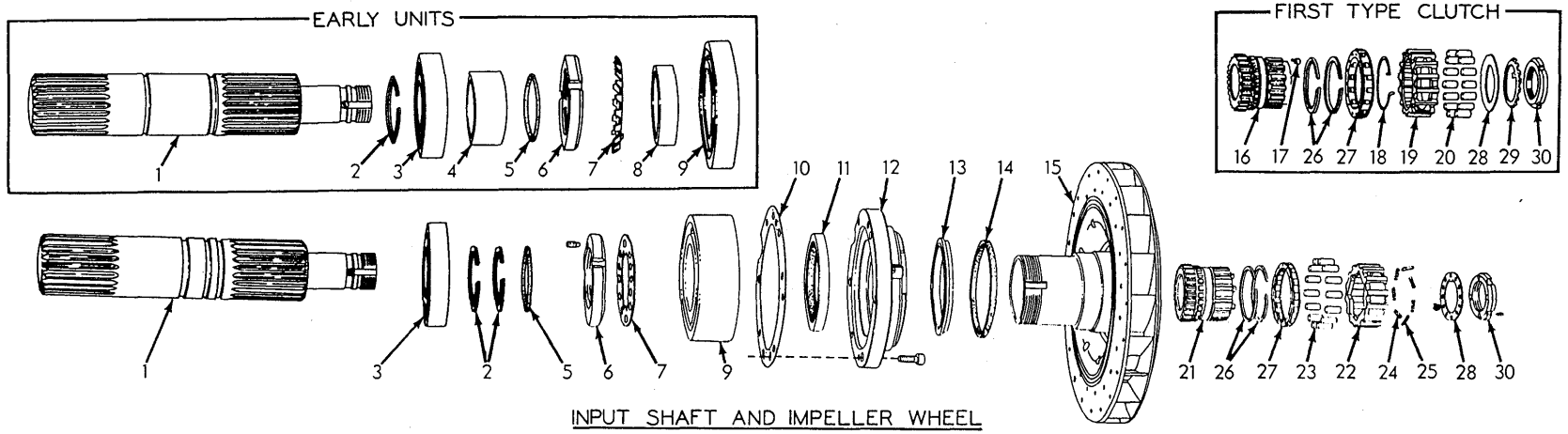
T-19643

# TORQUE CONVERTER AND PIPING

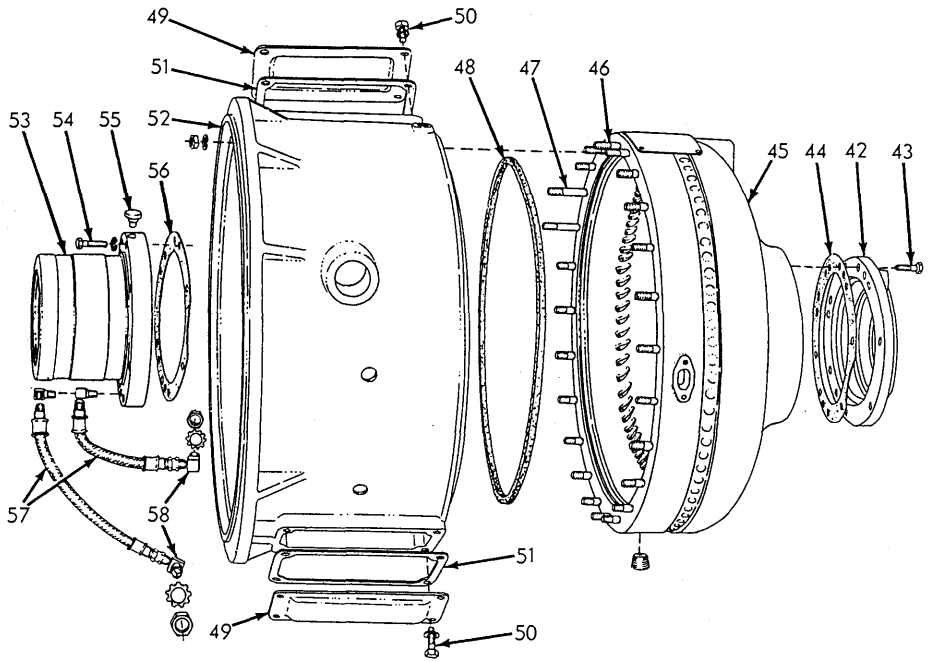
USAGE: Tractors serial No. 11001 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 093243 | 1 | CONVERTER ASSEMBLY, torque (See page 297 for parts. Also includes engine clutch throwout mechanism and lubricating hoses) |
| 2 | 013058 | 12 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| 3 | 095127 | 2 | HOSE ASSEMBLY, heat exchanger (See page 6 for parts) |
| 4 | 095090 | 2 | ELBOW, heat exchanger hose |
| 5 | 013058 | 2 | CAPSCREW, 3/8"NC x 1-1/4" |
| 6 | 058936 | 2 | CAPSCREW, 3/8"NC x 2-3/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 7 | 095091 | 2 | GASKET, heat exchanger hose elbow |
| 8 | 093909 | 1 | ELBOW, fluid inlet |
| | 919064 | 1 | CONNECTOR, flare type, 1" tube, 1"NPT |
| 9 | 013058 | 2 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 10 | 053173 | 2 | □GASKET, torque converter elbow |
| 11 | 632661 | 1 | TUBE ASSEMBLY, fluid discharge (Includes nuts)(When making first replacement also order CLIP 632695) |
| | 919064 | 1 | CONNECTOR, flare type, 1" tube, 1"NPT |
| | 919268 | 1 | UNION, flare type, 1" tube |
| 12 | 080990 | 1 | ELBOW, fluid outlet |
| 13 | 013058 | 2 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 14 | 092029 | 2 | TUBE, drain |
| | 910906 | 2 | NUT, flare type, short, 3/16" tube |
| | 910268 | 2 | ELBOW, flare type, 3/16" tube, 1/8"NPT male |
| | 901825 | 1 | BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT |
| 15 | 049769 | 1 | CLIP, fluid discharge tube, front (long type)(Original equipment) |
| | 632695 | 1 | CLIP, fluid discharge tube, front (short type)(Not original equipment) |
| 16 | 036032 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911115 | 1 | WASHER, plain, SAE std., 3/8" |
| 17 | 049769 | 1 | CLIP, fluid discharge tube, rear |
| 18 | 094238 | 2 | BOOT, protecting, fluid discharge tube |
| 19 | 074066 | 2 | HOSE, lubricating, torque converter bearings |
| | 907059 | 2 | ELBOW, street, 90°, 1/8"NPT |
| | 911036 | 2 | NUT, jam, 5/8"NC |
| | 914465 | 2 | FITTING, lubricating, straight, 1/8"NPT (Not for HD21G) |
| | 915274 | 2 | FITTING, lubricating, 45°, 1/8"NPT (For HD21G only) |
| 20 | 051496 | 1 | PLUG, thread protecting, lifting hole |
| 21 | ------ | 1 | TRANSFER (See PAINTING AND MARKING) |

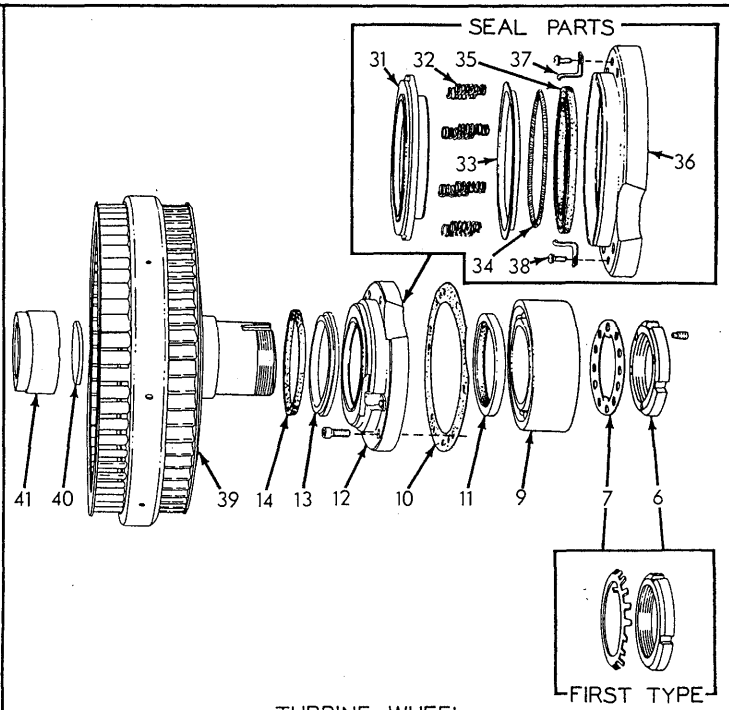
□Also see PACKAGED PARTS




INPUT SHAFT AND IMPELLER WHEEL




HOUSING AND COVERS




TURBINE WHEEL

T-16292

TORQUE CONVERTER PARTS

# TORQUE CONVERTER PARTS

USAGE: See pages 293 and 295

* Tractors prior to serial No. 8566, including No. 8583
** Tractors serial No. 8566 and up, excluding No. 8583

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 079773 | 1 | - | SHAFT, input |
| | 091513 | - | 1 | SHAFT, input |
| 2 | 052175 | 1 | 2 | RING, snap, input shaft |
| 3 | 067171 | 1 | 1 | BEARING, ball, input shaft |
| 4 | 079772 | 1 | - | SPACER, input shaft bearing |
| 5 | 079771 | 1 | 1 | RING, input shaft sealing |
| 6 | 052158 | 2 | 2 | NUT, retaining, impeller and turbine wheel bearings (Used prior to Converter #101409) |
| | 624815 | - | 2 | NUT, retaining, impeller and turbine wheel bearings (Effective with Converter #101409) |
| | 921401 | - | 2 | SETSCREW, socket-hd., half-dog-pt., 5/16"NC x 3/4" |
| 7 | 052160 | 2 | 2 | WASHER, locking, bearing retaining nut (Used prior to Converter #101409) |
| | 624816 | - | 2 | WASHER, locking, bearing retaining nut (Effective with Converter #101409) |
| 8 | 052179 | 1 | - | SPACER, impeller wheel bearing |
| 9 | 052157 | 2 | - | BEARING, ball, impeller and turbine wheels |
| | 091575 | - | 2 | BEARING, ball, impeller and turbine wheels |
| 10 | 052168 | 2 | 2 | GASKET, fluid seal |
| 11 | 052176 | 2 | 2 | SEAL, oil (Also see item 59) |
| 12 | 064882 | 2 | 2 | SEAL ASSEMBLY, fluid (Consists of item 11 and items 31 thru 38) |
| | 912267 | 12 | 12 | CAPSCREW, socket-hd., 3/8"NC x 1" |
| 13 | 052174 | 2 | 2 | RING, mating, fluid seal (Carbon)(Also see item 59) |
| 14 | 052183 | 2 | 2 | WASHER, sealing, fluid seal mating ring (rubber) (Also see item 59) |
| 15 | 093245 | 1 | 1 | WHEEL, impeller |

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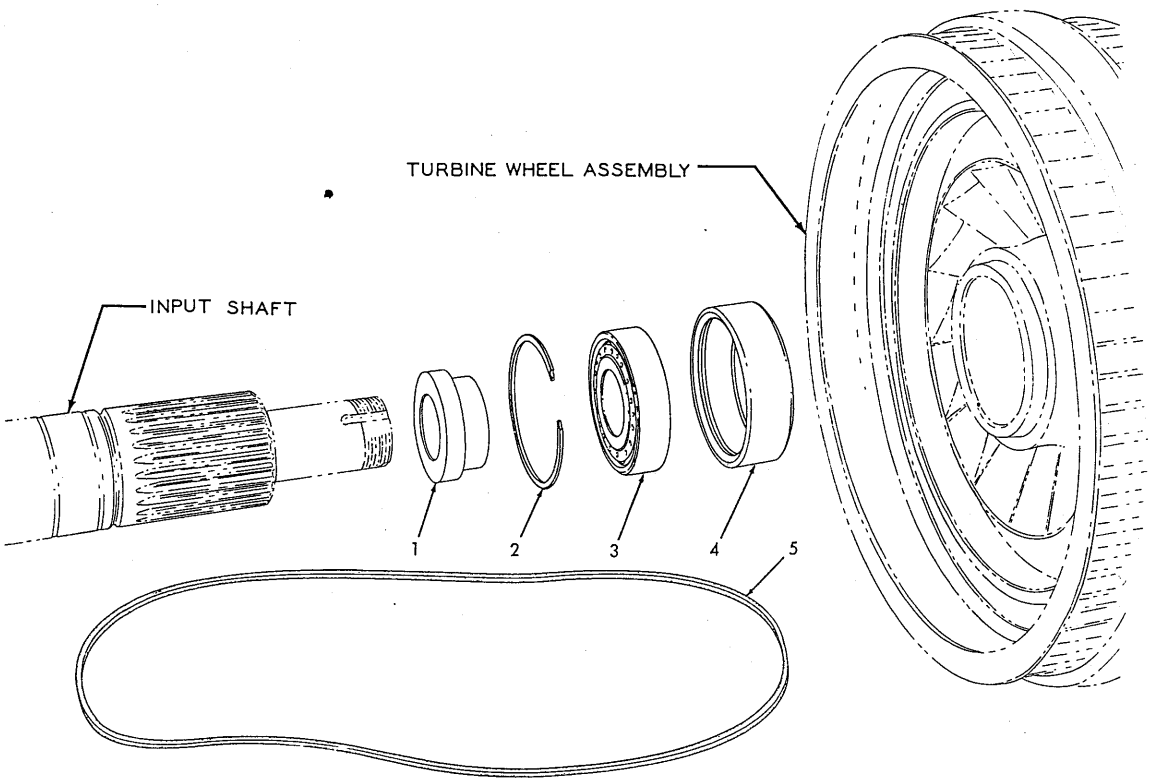
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| | | | | NOTE: Items 16 thru 20 are components of the FIRST TYPE OVER-RUNNING CLUTCH used prior to torque converter serial No. 65426.. | |
| 16 | ------ | 1 | - | CAM, over-running clutch (Order item 60) | |
| 17 | 076839 | 1 | - | PIN, stop, clutch roller cage | |
| 18 | ------ | 1 | - | SPRING, clutch roller cage | Order item 60 |
| 19 | ------ | 1 | - | CAGE, clutch rollers | |
| 20 | ------ | 14 | - | ROLLER, clutch | |
| | | | | NOTE: Items 21 thru 26 are components of the SECOND TYPE OVER-RUNNING CLUTCH effective with torque converter serial No. 65426. | |
| 21 | ------ | 1 | 1 | CAM, over-running clutch | Order item 60 |
| 22 | ------ | 1 | 1 | CAGE ASSEMBLY, clutch rollers (Includes 2 spring guiding pins) | |
| 23 | ------ | 14 | 14 | ROLLER, clutch | |
| 24 | ------ | 2 | 2 | SPRING, cage return | |
| 25 | ------ | 5 | 5 | SPRING, bumper | |
| 26 | 067704 | 2 | 2 | RING, snap, over-running clutch cam | Also see item 60 |
| 27 | 069770 | 1 | 1 | ROLLER ASSEMBLY, clutch bearing | |
| 28 | 052184 | 1 | 1 | WASHER, retaining, over-running clutch (plain type. Used prior to Converter #101409) | |
| | 624817 | - | 1 | WASHER, retaining, over-running clutch (keyed type. Effective with Converter #101409)(Also see item 60) | |
| 29 | 030123 | 1 | 1 | WASHER, locking, input shaft nut (Used prior to Converter #101409) | |
| 30 | 030107 | 1 | 1 | NUT, input shaft (Used prior to Converter #101409) | |
| | 624814 | - | 1 | NUT, input shaft (Effective with Converter #101409) | |
| | 921400 | - | 1 | SETSCREW, socket-hd., half-dog-pt., 1/4"NC x 5/8" | |
| 31 | ------ | 2 | 2 | NOSE-PIECE, fluid seal (Not serviced. Order item 59) | |
| 32 | 058717 | 16 | 16 | SPRING, fluid seal | Also see item 59 |
| 33 | 055278 | 2 | 2 | WASHER, retaining, fluid seal element | |
| 34 | 057269 | 2 | 2 | SPRING, clamping, fluid seal element | |
| 35 | 057270 | 2 | 2 | ELEMENT, fluid seal (rubber) | |
| 36 | ------ | 2 | 2 | CARRIER, fluid seal (Not serviced. Order item 12) | |
| 37 | 057268 | 4 | 4 | CLIP, retaining, fluid seal nose-piece | Also see item 59 |
| 38 | 057267 | 4 | 4 | CAPSCREW ASSEMBLY (Includes lockwasher) | |
| 39 | 058698 | 1 | - | WHEEL ASSEMBLY, turbine (Includes items 40 and 41)(See EXCHANGE OFFER below) | |
| | 091576 | - | 1 | WHEEL ASSEMBLY, turbine (Includes items 40 and 41)(See EXCHANGE OFFER below) | |
| 40 | 052172 | 1 | 1 | PLUG, turbine wheel | |
| 41 | ------ | 1 | 1 | RACE, outer, over-running clutch (Standard size. Not serviced separately) | |
| | 096656 | 1 | 1 | RACE, outer, over-running clutch (.020" oversize) | |
| | 096657 | 1 | 1 | RACE, outer, over-running clutch (.060" oversize) | |
| | | | | NOTE: Replacement of clutch outer race requires precision machining | |

(Continued)

## TORQUE CONVERTER PARTS (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 42 | 058819 | 1 | - | RETAINER, turbine wheel bearing |
| | 091561 | - | 1 | RETAINER, turbine wheel bearing |
| 43 | 013058 | 6 | - | CAPSCREW, 3/8"NC x 1-1/4" |
| | 070960 | - | 6 | CAPSCREW, 3/8"NC x 1-1/2" |
| | 904206 | 6 | - | LOCKWASHER, 3/8" |
| 44 | 052168 | 1 | 1 | GASKET, bearing retainer |
| 45 | 058695 | 1 | 1 | HOUSING ASSEMBLY, turbine (Blades are not serviced separately) |
| | 069214 | 1 | 1 | HOUSING ASSEMBLY, turbine (Reconditioned. See Parts Bulletin No. CM-9 and Service Bulletin No. 16 for plans of reconditioning used housings) |
| | 908944 | 1 | 1 | PLUG, pipe, hex-socket 1/2"NPT |
| 46 | 052181 | 22 | 22 | STUD (3/8" diam., 1-3/4" long) |
| 47 | 052182 | 2 | 2 | STUD (3/8" diam., 2-3/4" long) |
| | 904206 | 24 | 24 | LOCKWASHER, 3/8" |
| | 911041 | 24 | 24 | NUT, 3/8"NF |
| 48 | 052166 | 1 | 1 | GASKET, turbine housing (Also see item 60) |
| 49 | 057639 | 2 | 2 | PLATE, inspection |
| 50 | 035244 | 8 | 8 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 51 | 057629 | 2 | 2 | GASKET, inspection plate |
| 52 | 067151 | 1 | 1 | HOUSING ASSEMBLY, clutch (Includes 1 PLUG 910230) |
| | 910230 | 1 | 1 | PLUG, pipe, slotted-hd., 1/8"NPT |
| 53 | 067147 | 1 | - | CARRIER, input shaft bearing |
| | 091555 | - | 1 | CARRIER, input shaft bearing |
| 54 | 013058 | 6 | 6 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" |
| 55 | 605132 | 1 | 1 | VENT, air, input shaft bearing carrier |
| 56 | 052168 | 1 | 1 | GASKET, input shaft bearing carrier |
| 57 | 621813 | 2 | 2 | HOSE, greasing and draining |
| | 915399 | 2 | 2 | ELBOW, street, brass, 90°, 3/8"NPT |
| 58 | 090652 | 2 | 2 | FITTING, elbow |
| | 910543 | 2 | 2 | LOCKWASHER, external teeth, 5/8" |
| | 911049 | 2 | 2 | NUT, jam, 5/8"NF |
| 59 | 062164 | 2 | 2 | SEAL KIT, torque converter fluid (Consists of items 11, 13, 14, 31 thru 35, 37 and 38; two kits required per unit)(Not illustrated) |
| 60 | 090465 | 1 | 1 | CLUTCH KIT, over-running, (Consists of items 21 thru 28 and 48) (Not illustrated) |

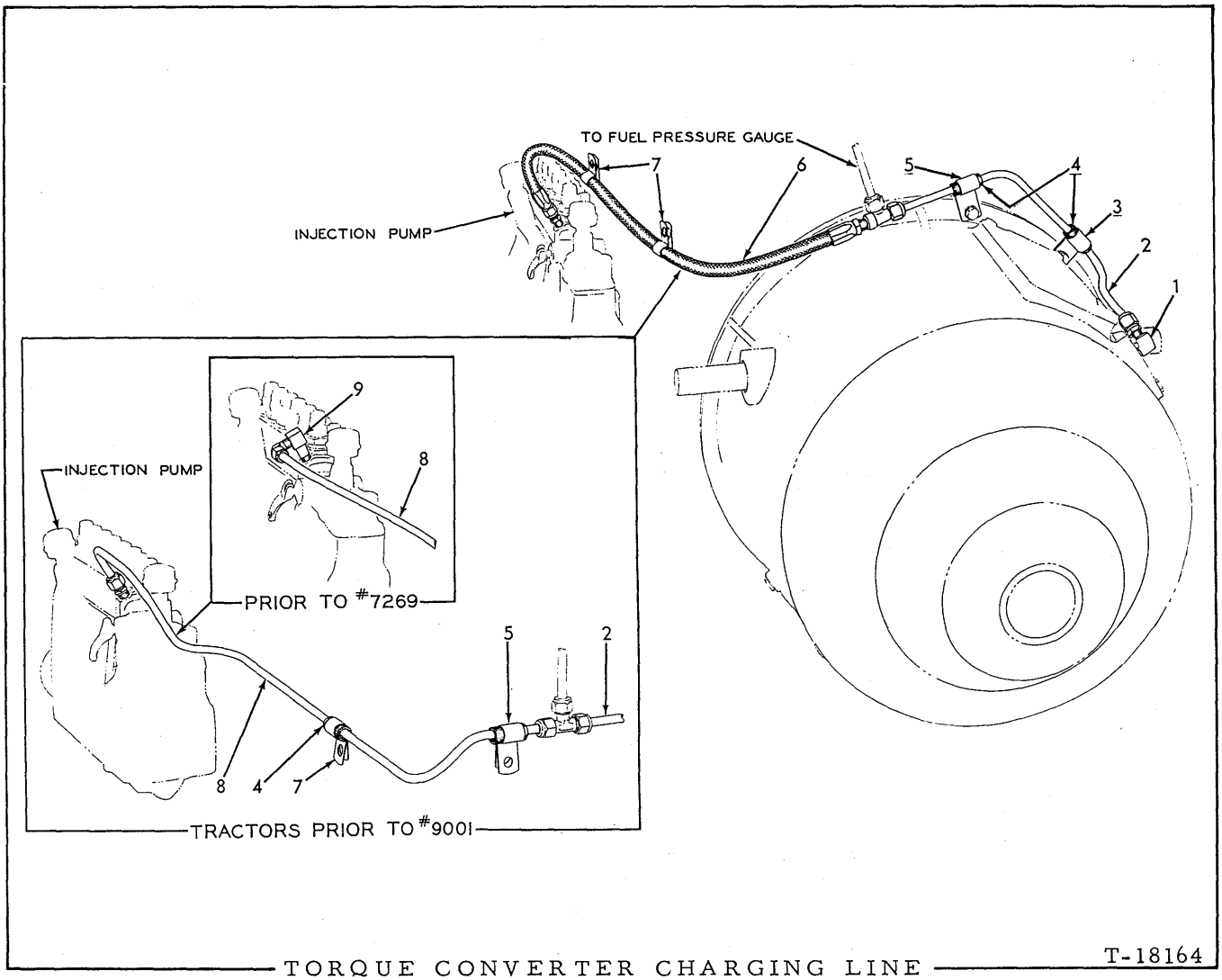
TURBINE WHEEL EXCHANGE OFFER: A used Turbine Wheel Assembly may be returned for credit, subject to factory inspection, to apply on the purchase of a new Turbine Wheel Assembly. Used Wheel Assembly No. 058698 is identified as Part No. 061799 and Used Wheel Assembly No. 091576 is identified as Part No. 091582. The amount of allowable credit is indicated in the Master Parts Price List under these numbers.




TORQUE CONVERTER BEARING KIT 634242

USAGE: Special equipment. May be installed in place of over-running CLUTCH KIT 090465 if push starting or engine braking is not essential

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| - | 634242 | 1 | BEARING KIT, over-running clutch replacement (Consists of items listed below) |
| 1 | 634234 | 1 | SPACER, bearing |
| 2 | 634233 | 1 | RING, snap, roller bearing |
| 3 | 059095 | 1 | BEARING, roller |
| 4 | 634232 | 1 | SLEEVE, adapter, roller bearing (Requires precision machining and welding to install) |
| 5 | 052166 | 1 | GASKET, turbine housing |




TORQUE CONVERTER CHARGING LINE T-18164

USAGE: Tractors prior to serial No. 11001

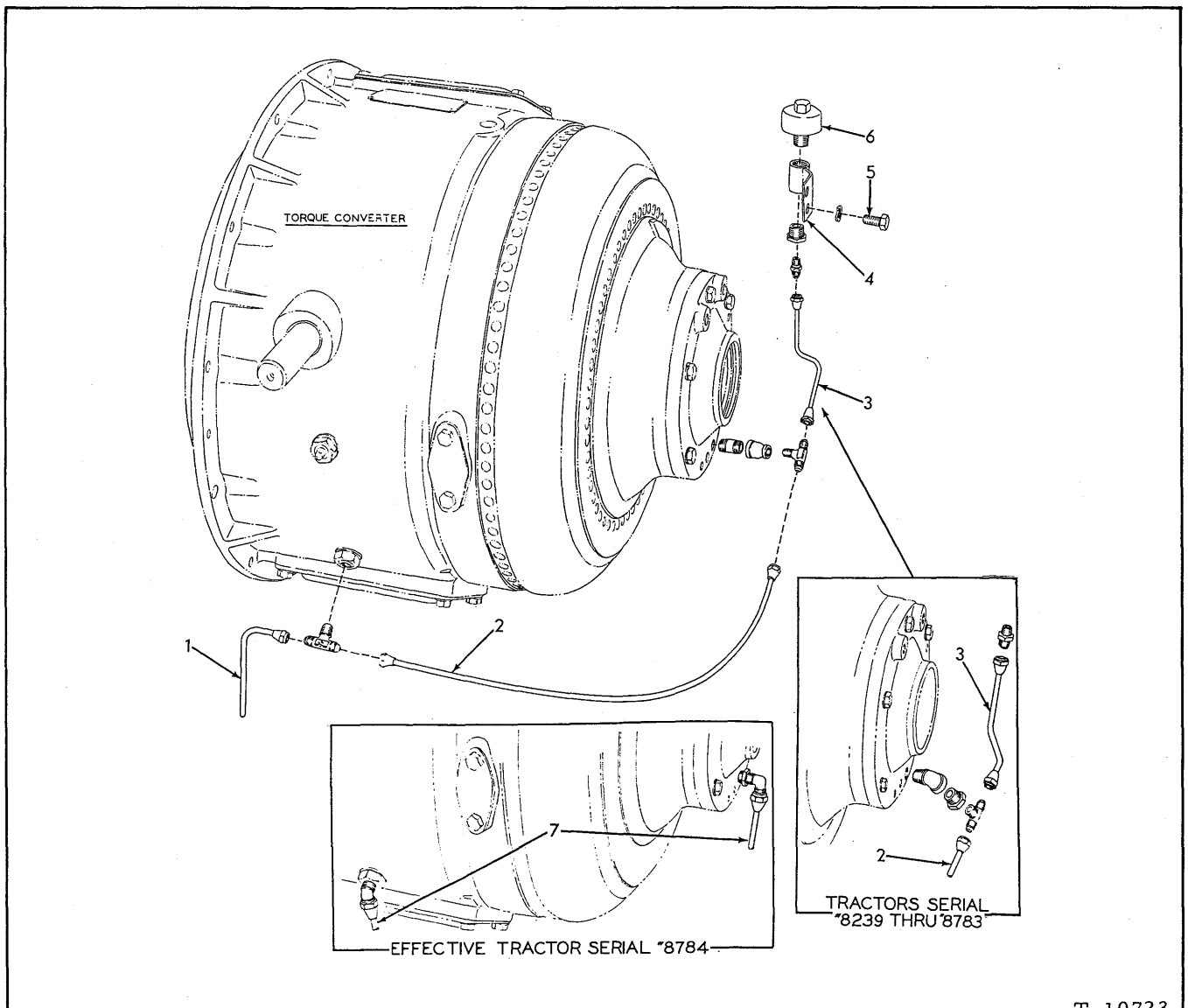
* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 047852 | 1 | 1 | ELBOW, rear tube |
| 2 | 082043 | 1 | - | TUBE, rear (Used prior to tractor #7269) |
| | 084799 | 1 | 1 | TUBE, rear (Effective with tractor #7269) |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 915368 | 1 | 1 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| | 915371 | 1 | - | TEE, union, Sealastic, 3/8" tube |
| | 918775 | - | 1 | TEE, service, Sealastic, 3/8" tube, 1/4"NPT female |
| 3 | 094131 | 1 | 1 | CLIP, rear tube (5/8" diam., 13/32" bolt-hole) |
| 4 | 086793 | 3 | 2 | SLEEVE, tube clip (rubber) |
| 5 | 086796 | 1 | 1 | CLIP, tube supporting (5/8" diam., 7/16" bolt-hole) |

(Continued)

## TORQUE CONVERTER CHARGING LINE (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 6 | 094149 | - | 1 | HOSE ASSEMBLY, fluid supply line (See page 6 for parts) |
| | 912324 | - | 1 | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male |
| 7 | 051311 | 1 | 2 | CLIP, front line (5/8" diam., 17/32" bolt-hole) |
| | 082050 | 1 | - | TUBE, front (Used prior to tractor #7269) |
| | 915369 | 1 | - | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| 8 | 084434 | 1 | - | TUBE, front (Effective with tractor #7269) |
| | 915368 | 1 | - | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| | 918325 | 2 | - | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | - | RING, Sealastic, 3/8" tube (Includes ferrule) |
| 9 | 042538 | 1 | - | ELBOW, front tube, 90°, 1/4"NPT male and female (Used prior to tractor #7269) |



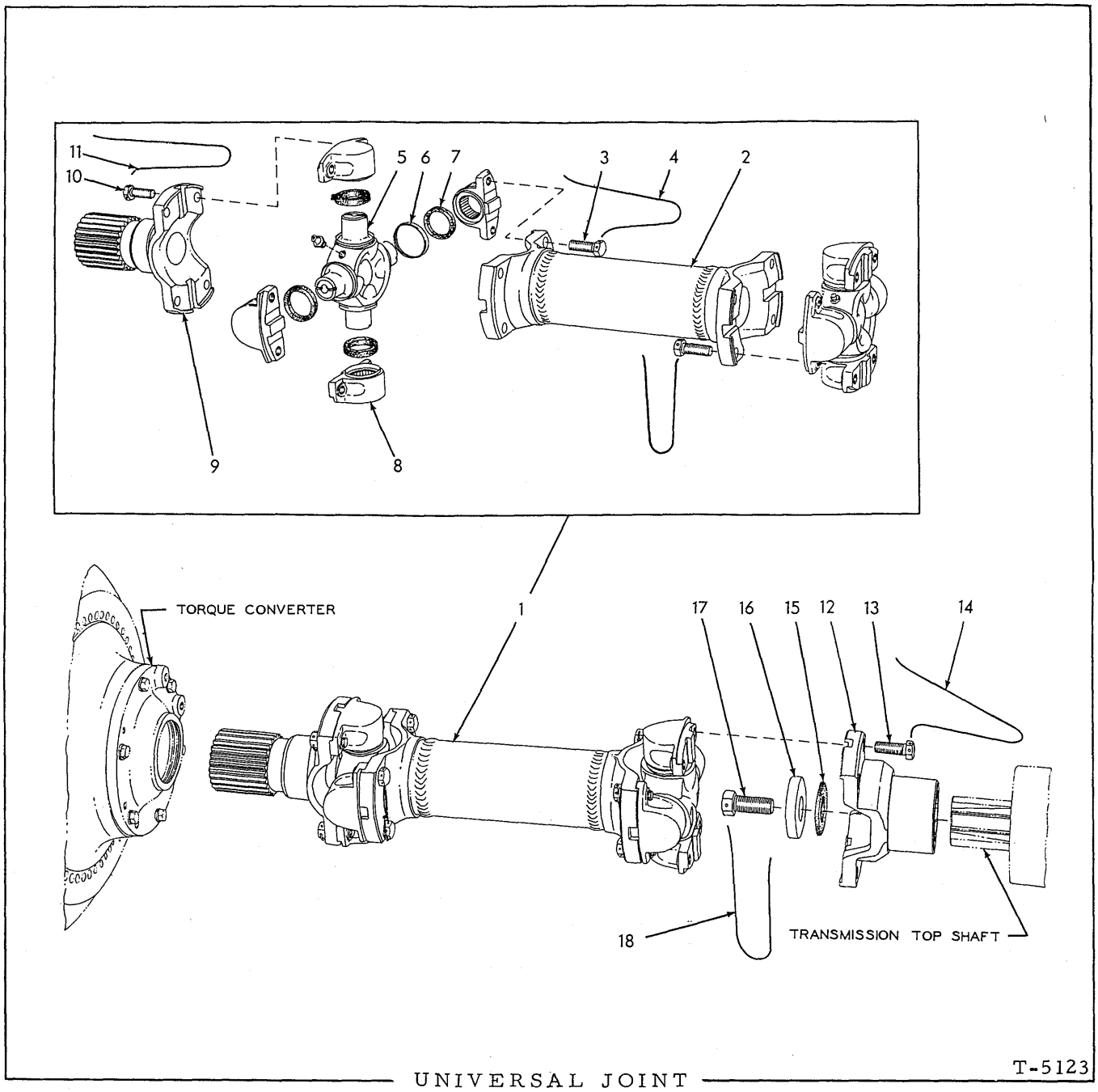

TORQUE CONVERTER SEAL DRAIN

# TORQUE CONVERTER SEAL DRAIN

USAGE: Tractors prior to serial No. 11001

* Used prior to tractor serial No. 8784.
** Effective with tractor serial No. 8784.

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 083283 | 1 | - | TUBE ASSEMBLY, front (Includes nut) |
| | 914474 | 1 | - | TEE, flare type, 3/16" tube, 1/8"NPT |
| 2 | 079497 | 1 | - | TUBE ASSEMBLY, rear (Includes NUTS 910906) |
| | 910906 | 2 | - | NUT, flare type, short, 3/16" tube |
| | 914474 | 1 | - | TEE, flare type, 3/16" tube, 1/8"NPT |
| | 907061 | 1 | - | COUPLING, pipe reducing, 1/4"NPT to 1/8"NPT (Used prior to tractor #8239) |
| | 901478 | 1 | - | NIPPLE, pipe, 1/4"NPT x 7/8" (Used prior to tractor #8239) |
| | 901825 | 1 | - | BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT (Effective with tractor #8239) |
| | 907058 | 1 | - | ELBOW, street, 45°, 1/4"NPT (Effective with tractor #8239) |
| 3 | 053171 | 1 | - | TUBE ASSEMBLY, breather (Includes nuts)(Used prior to tractor #7269) |
| | 079495 | 1 | - | TUBE ASSEMBLY, breather (Includes nuts)(Used on tractors #7269 thru #8238) |
| | 089034 | 1 | - | TUBE ASSEMBLY, breather (Includes nuts)(Effective with tractor #8239) |
| | 910905 | 1 | - | CONNECTOR, flare type, 3/16" tube, 1/8"NPT male |
| | 901838 | 1 | - | BUSHING, pipe reducing, 3/8"NPT to 1/8"NPT |
| 4 | 053192 | 1 | - | BRACKET, breather |
| 5 | 035244 | 1 | - | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 1 | - | LOCKWASHER, 3/8" |
| 6 | 050748 | 1 | - | BREATHER, air |
| 7 | 092029 | - | 2 | TUBE, drain |
| | 910906 | - | 2 | NUT, flare type, short, 3/16" tube |
| | 910268 | - | 2 | ELBOW, flare type, 3/16" tube, 1/8"NPT male |
| | 901825 | - | 1 | BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT |




T-5123

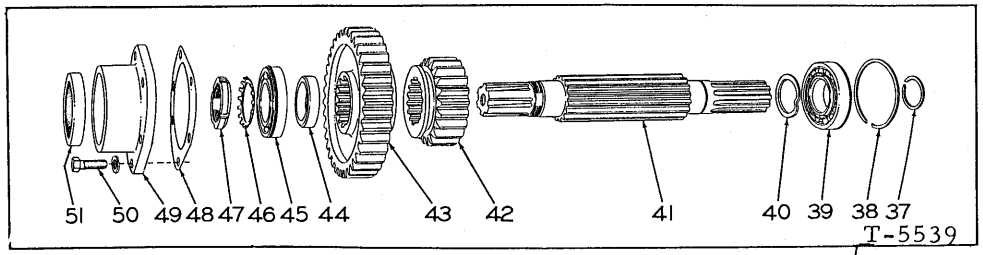
UNIVERSAL JOINT

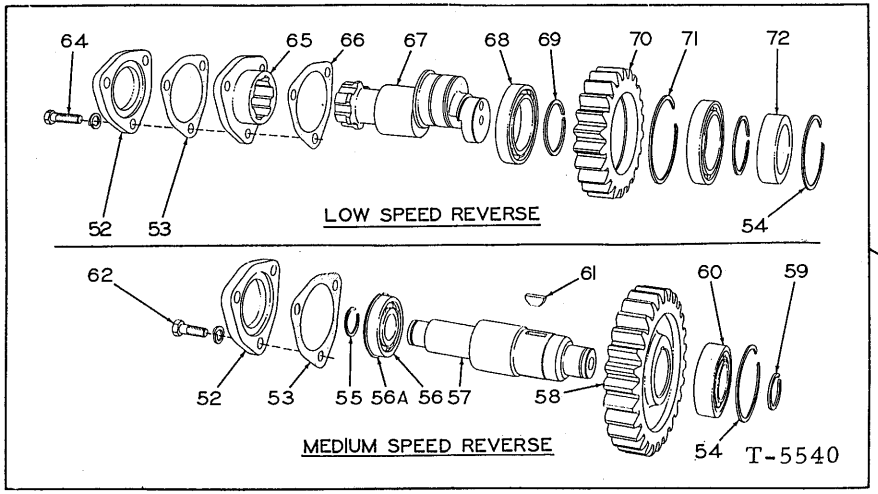
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 081061 | 1 | JOINT ASSEMBLY, universal, clutch to transmission (Consists of items 2 thru 11) |
| 2 | 081038 | 1 | TUBE, connecting |
| 3 | 035689 | 8 | CAPSCREW, drilled-hd., 1/2"NF x 1-3/8" |
| 4 | 023633 | 4 | WIRE, locking, 1/16" x 12" |
| 5 | 090311 | 2 | SPIDER ASSEMBLY (Includes item 6 and FITTING indented below) |
| | 914465 | 2 | FITTING, lubricating, straight, 1/8"NPT (Used prior to tractor #8445) |
| | 912808 | 2 | FITTING, lubricating, straight, 1/4"NF (Effective with tractor #8445) |

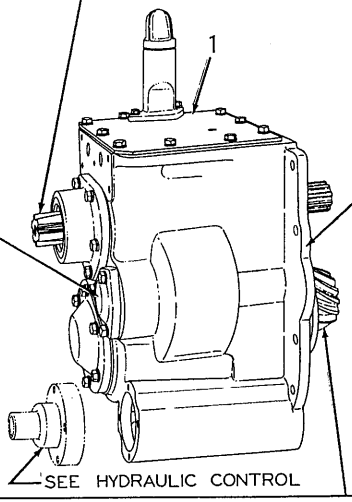
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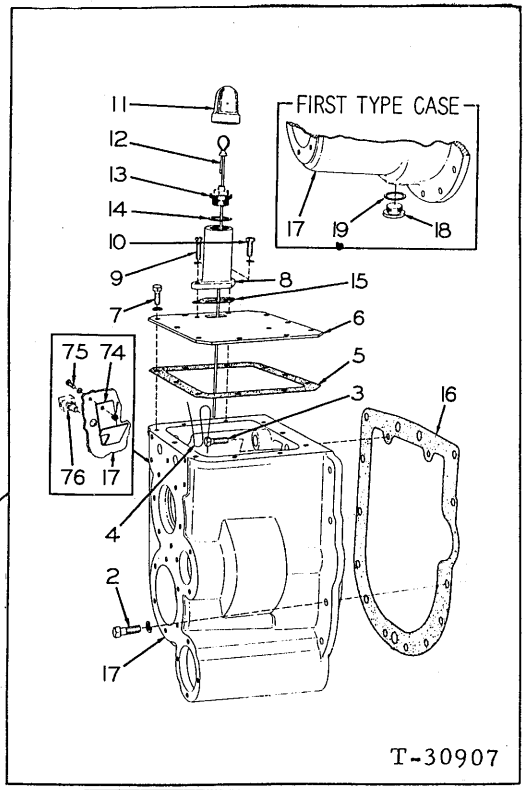
## UNIVERSAL JOINT (Continued)

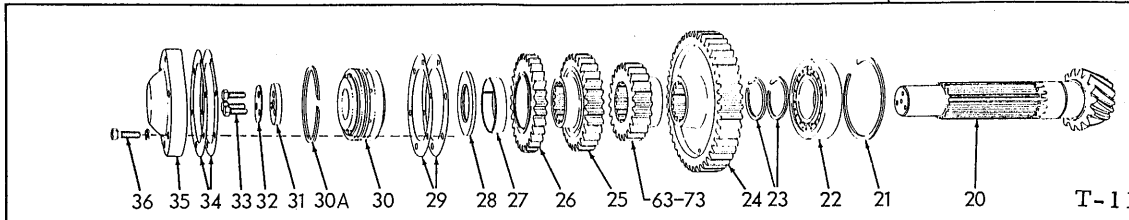
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 6 | 069954 | 8 | SHIELD, dust |
| 7 | 069965 | 8 | WASHER, sealing, spider bearing |
| 8 | 069962 | 8* | BEARING ASSEMBLY (Each includes 30 rollers, 1 washer and 1 retainer)(Serviced only as a unit) |
| 9 | 074355 | 1 | YOKE ASSEMBLY, front end (Includes cup plug) |
| 10 | 035689 | 4 | CAPSCREW, drilled-hd., 1/2"NF x 1-3/8" |
| 11 | 023633 | 2 | WIRE, locking, 1/16" x 12" |
| 12 | 073896 | 1 | YOKE, rear end |
| 13 | 035689 | 4 | CAPSCREW, drilled-hd., 1/2"NF x 1-3/8" |
| 14 | 023633 | 2 | WIRE, locking, 1/16" x 12" |
| 15 | 052760 | 1 | SEAL, yoke retaining washer (rubber) |
| 16 | 052761 | 1 | WASHER, yoke retaining |
| 17 | 075950 | 1 | CAPSCREW, yoke retaining, (drilled-hd., 3/4"NF x 1-3/4") |
| 18 | 023633 | 1 | WIRE, locking, 1/16" x 12" |


51 50 49 48 47 46 45 44 43 42 41 40 39 38 37
T-5539


64 65 66 67 68 69 70 71 72
52 53
LOW SPEED REVERSE
54
62 61 60 59
52 53 55 56A 56 57 58
MEDIUM SPEED REVERSE
54
T-5540


1
SEE HYDRAULIC CONTROL


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76 17
FIRST TYPE CASE
17 19 18
T-30907


36 35 34 33 32 31 30A 30 29 28 27 26 25 63-73 24 23 22 21 20
T-11257

T-30906

* Tractors prior to serial No. 12001, excluding Nos. 11808 and 11809
** Tractor serial No. 12001 and up, including Nos. 11808 and 11809

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 082351 | 1 | - | TRANSMISSION ASSEMBLY (Consists of items 2 thru 63)(Standard on Model HD21A tractors prior to #9001) |
| | 092038 | 1 | - | TRANSMISSION ASSEMBLY (Consists of item 2 thru 63. Provides 8 MPH forward speed and medium reverse speed)(Standard on HD21A tractors #9001 thru #11875) |
| | 099957 | 1 | - | TRANSMISSION ASSEMBLY (Consists of item 2 thru 63. Provides 6 MPH forward speed and medium reverse speed)(Standard on HD21A effective with tractor #11876) |
| | 623236 | - | 1 | TRANSMISSION ASSEMBLY (Consists of item 2 thru 63 and 74 thru 76. Provides 6 MPH forward speed and medium reverse speed) (Standard on Model HD21A) |
| | 084422 | 1 | - | TRANSMISSION ASSEMBLY (Consists of items 2 thru 54 and 64 thru 73)(Provides slow speeds on tractors prior to #9001. Standard on Models HD21F, G. Optional on Model HD21A) |
| | 093965 | 1 | - | TRANSMISSION ASSEMBLY (Consists of item 2 thru 54 and 64 thru 73. Provides 8 MPH forward speed and low reverse speed) (Standard on HD21F, G tractors #9001 thru #11690) |
| | 099958 | 1 | - | TRANSMISSION ASSEMBLY (Consists of item 2 thru 54 and 64 thru 73. Provides 6 MPH forward speed and low reverse speed) (Standard on HD21F, G effective with tractor #11691) |
| | 623237 | - | 1 | TRANSMISSION ASSEMBLY (Consists of item 2 thru 54 and 64 thru 76. Provides 6 MPH forward speed and low reverse speeds) (Standard on Models HD21F, G. Optional on Model HD21A) |
| 2 | 035229 | 12 | 10 | CAPSCREW, 5/8"NF x 2" |
| | 045524 | - | 2 | CAPSCREW, 5/8"NF x 4-1/2" |
| | 904209 | 12 | 12 | LOCKWASHER, 5/8" |
| 3 | 070162 | 2 | 2 | CAPSCREW, drilled-hd., 5/8"NF x 1-3/4" |
| 4 | 023756 | 1 | 1 | WIRE, locking, 1/16" x 26" |
| 5 | 052598 | 1 | 1 | □GASKET, case cover |
| 6 | ------ | 1 | - | COVER, transmission case (Order 1 each COVER 623378, CAPSCREW 035979 and LOCKWASHER 904206) |
| | 623378 | - | 1 | COVER, transmission case |
| 7 | 035220 | 9 | 9 | CAPSCREW, 1/2"NC x 1-1/8" |
| | 904208 | 9 | 9 | LOCKWASHER, 1/2" |
| 8 | 052654 | 1 | 1 | PIPE, filler |
| 9 | 035336 | 1 | 1 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| 10 | 035190 | 1 | 1 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |

□Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 11 | 034265 | 1 | 1 | CAP, oil filler pipe |
| 12 | 034304 | 1 | 1 | ROD, oil level gauge |
| 13 | 034268 | 1 | 1 | PLUG, oil filler pipe |
| 14 | 034269 | 1 | 1 | GASKET, oil filler pipe plug |
| 15 | 052651 | 1 | 1 | GASKET, filler pipe |
| 16 | 623177 | 1 | 1 | □GASKET, transmission to steering clutch housing |
| 17 | 082352 | 1 | - | CASE (Used prior to tractor #9001) |
| | 099937 | 1 | - | CASE (Effective with tractor #9001) |
| | 630877 | - | 1 | CASE |
| 18 | 035250 | 1 | - | PLUG, drain |
| 19 | 035249 | 1 | - | □GASKET, drain plug |
| 20 | 082201 | 1 | - | PINION AND SHAFT (14 teeth)(Standard on Model HD21A tractors prior to #9001) |
| | 082826 | 1 | - | PINION AND SHAFT (12 teeth)(Provides slow speeds on tractors prior to #9001. Standard on Models HD21F, G. Optional on Model HD21A) |
| | 091733 | 1 | 1 | PINION AND SHAFT (12 teeth)(Effective with tractor #9001 on all models) |
| 21 | 052375 | 1 | 1 | RING, snap, pinion shaft rear bearing |
| 22 | 082349 | 1 | 1 | BEARING, roller, pinion shaft, rear |
| 23 | 052132 | 2 | 2 | RING, snap, pinion shaft |
| 24 | 051828 | 1 | 1 | GEAR, low speed, pinion shaft (44 teeth) |
| 25 | 052047 | 1 | - | GEAR, high speed, pinion shaft (29 teeth)(Standard on HD21A prior to tractor #11876 and on HD21F, G prior to tractor #11691. Used for 8 MPH speed) |
| | 099894 | 1 | 1 | GEAR, high speed, pinion shaft (34 teeth)(Standard on HD21A effective with tractor #11876 and on HD21F, G effective with tractor #11691. Used for 6 MPH speed) |
| 26 | 054510 | 1 | - | GEAR ASSEMBLY, oil slinging, pinion shaft (29 teeth. Includes item 27)(Standard on HD21A prior to tractor #11876 and on HD21F, G prior to tractor #11691. Optional on later units. Used for 8 MPH speed) |
| | 099891 | 1 | - | GEAR ASSEMBLY, oil slinging, pinion shaft (34 teeth. Includes item 27)(Standard on HD21A effective with tractor #11876 and on HD21F, G effective with tractor #11691. Used for 6 MPH speed) |

□Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 27 | 054509 | 1 | - | BUSHING, oil slinging gear (7/8" wide)(Standard on HD21A prior to tractor #11876 and on HD21F, G prior to tractor #11691) |
| | 099892 | 1 | - | BUSHING, oil slinging gear (5/8" wide)(Standard on HD21A effective with tractor #11876 and on HD21F, G effective with tractor #11691) |
| 28 | 082222 | 1 | 1 | WASHER, thrust, oil slinging gear |
| 29 | 052515 | 3 | 3 | SHIM, pinion adjustment (.005" thick. Use as required) |
| | 052219 | 4 | 4 | SHIM, pinion adjustment (.007" thick. Use as required) |
| 30 | 082343 | 1 | 1 | BEARING, roller, pinion shaft, front |
| 30A | 048705 | 1 | 1 | RING, snap, pinion shaft front bearing |
| 31 | 052243 | 1 | 1 | WASHER, end, pinion shaft |
| 32 | 052244 | 1 | 1 | WASHER, locking |
| 33 | 035018 | 3 | 3 | CAPSCREW, 1/2"NF x 1-1/2" |
| 34 | 052216 | 1 | 1 | SHIM, pinion shaft adjustment (.005" thick. Use as required) |
| | 053012 | 2 | 2 | SHIM, pinion shaft adjustment (.007" thick. Use as required) |
| 35 | 082186 | 1 | 1 | RETAINER, pinion shaft front bearing (See page 561 for special Housing used when ODOMETER is installed) |
| 36 | 035712 | 6 | 6 | CAPSCREW, 1/2"NC x 2-1/4" |
| | 904208 | 6 | 6 | LOCKWASHER, 1/2" |
| 37 | 049899 | 1 | 1 | RING, snap, top shaft |
| 38 | 048704 | 1 | 1 | RING, snap, top shaft rear bearing |
| 39 | 052057 | 1 | 1 | BEARING, roller, top shaft, rear |
| 40 | 064850 | 1 | 1 | WASHER, spacing, top shaft rear bearing (grooved) |
| 41 | 065339 | 1 | 1 | SHAFT, top |
| 42 | 051985 | 1 | 1 | PINION, low speed and reverse, top shaft (21 teeth) |
| 43 | 065690 | 1 | - | GEAR, high speed, top shaft (36 teeth)(Standard on HD21A prior to tractor #11876 and on HD21F, G prior to tractor #11691. Used for 8 MPH speed) |
| | 099895 | 1 | 1 | GEAR, high speed, top shaft (31 teeth)(Standard on HD21A effective with tractor #11876 and on HD21F, G effective with tractor #11691. Used for 6 MPH speed) |
| 44 | 052084 | 1 | 1 | SPACER, top shaft front bearing |
| 45 | 648654 | 1 | 1 | BEARING, ball, top shaft, front (Includes snap ring) |
| 46 | 630028 | 1 | 1 | WASHER, locking, top shaft nut |
| 47 | 204980 | 1 | 1 | NUT, top shaft |
| 48 | 052475 | 1 | 1 | □GASKET, top shaft front bearing retainer |

□Also see PACKAGED PARTS

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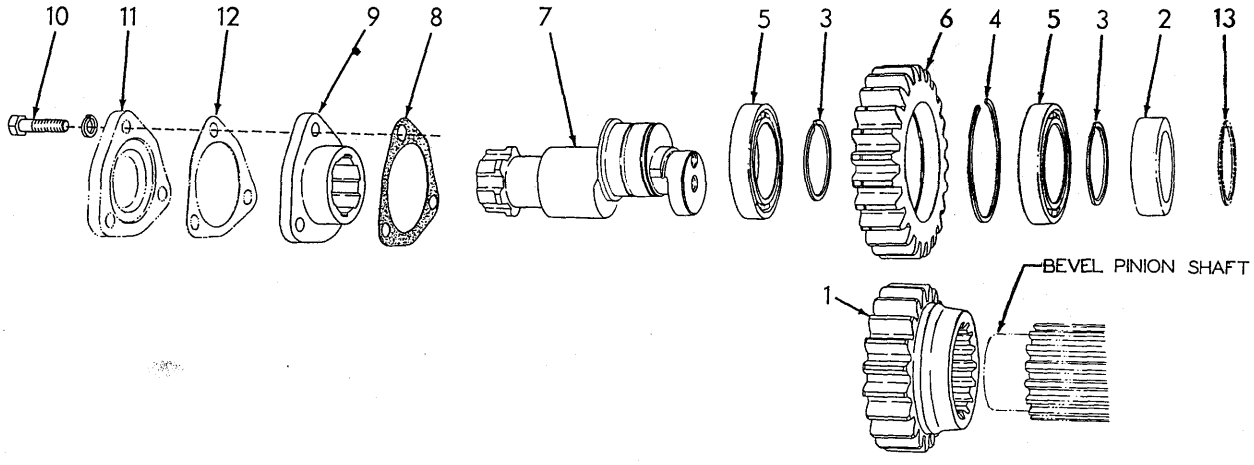
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 49 | 623527 | 1 | 1 | RETAINER ASSEMBLY, top shaft front bearing (Includes PLUG 901651) |
| | 901651 | 1 | 1 | PLUG, pipe, 1/8"NPT |
| 50 | 035190 | 6 | 6 | • CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 6 | 6 | LOCKWASHER, 1/2" |
| 51 | 628940 | 1 | 1 | SEAL, oil, top shaft, front |
| 52 | 052449 | 1 | 1 | RETAINER, reverse shaft front bearing |
| 53 | 052476 | 1 | 1 | □GASKET, reverse shaft front bearing retainer |
| 54 | 052374 | 1 | 1 | RING, snap, reverse shaft rear bearing |
| | | | | NOTE: Items 55 thru 63 comprise the MEDIUM SPEED REVERSE ARRANGEMENT used on standard Model HD21A tractors |
| 55 | 052224 | 1 | 1 | RING, snap, reverse shaft, front |
| 56 | 097088 | 1 | 1 | BEARING, ball, reverse shaft, front |
| 56A | 049526 | 1 | 1 | RING, snap, bearing retaining |
| 57 | 078043 | 1 | 1 | SHAFT, reverse |
| 58 | 051773 | 1 | 1 | GEAR, reverse shaft (27 teeth) |
| 59 | 052225 | 1 | 1 | RING, snap, reverse shaft, rear |
| 60 | 052049 | 1 | 1 | BEARING, roller, reverse shaft, rear |
| 61 | 049149 | 1 | 1 | KEY, reverse gear (woodruff, 5/16" x 1-1/8") |
| 62 | 035190 | 3 | 3 | CAPSCREW, reverse shaft front bearing retainer (1-1/2" long) |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 63 | 052051 | 1 | 1 | GEAR, reverse, pinion shaft (23 teeth) |
| | | | | NOTE: Items 64 thru 73 comprise the LOW SPEED REVERSE ARRANGEMENT furnished as optional equipment on Model HD21A tractors and as standard equipment on Model HD21F and HD21G tractors. For conversion of Model HD21A tractors in the field order item 77. |
| 64 | 921556 | 3 | 3 | CAPSCREW, reverse shaft hub retaining (2" long) |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 65 | 065517 | 1 | 1 | HUB, reverse shaft |
| 66 | 052476 | 1 | 1 | □GASKET, reverse shaft hub |
| 67 | 065516 | 1 | 1 | SHAFT, reverse |
| 68 | 057773 | 2 | 2 | BEARING, ball, reverse shaft gear |
| 69 | 065512 | 2 | 2 | RING, snap, reverse shaft |
| 70 | 065518 | 1 | 1 | GEAR, reverse shaft (22 teeth) |

See item 77

□Also see PACKAGED PARTS

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 71 | 065513 | 1 | 1 | RING, snap, reverse shaft gear | See item 77 |
| 72 | 065514 | 1 | 1 | RING, adapting, reverse shaft | |
| 73 | 065519 | 1 | 1 | GEAR, reverse, pinion shaft (31 teeth) | |
| | | | | NOTE: See page 312 for special HIGH SPEED REVERSE | |
| 74 | 630915 | - | 1 | DEFLECTOR, oil | |
| 75 | 054501 | - | 1 | CAPSCREW, oil deflector | |
| | 904206 | - | 1 | LOCKWASHER, 3/8" | |
| | 903416 | - | 1 | NUT, slotted, 3/8"NC | |
| | 900802 | - | 1 | PIN, cotter, 3/32" x 1" | |
| 76 | ------ | - | 1 | TEE, oil line (See TRANSMISSION OIL LINES) | |
| 77 | 067381 | 1 | 1 | TRANSMISSION KIT, low-speed reverse changeover (Consists of items 64 thru 73) | |

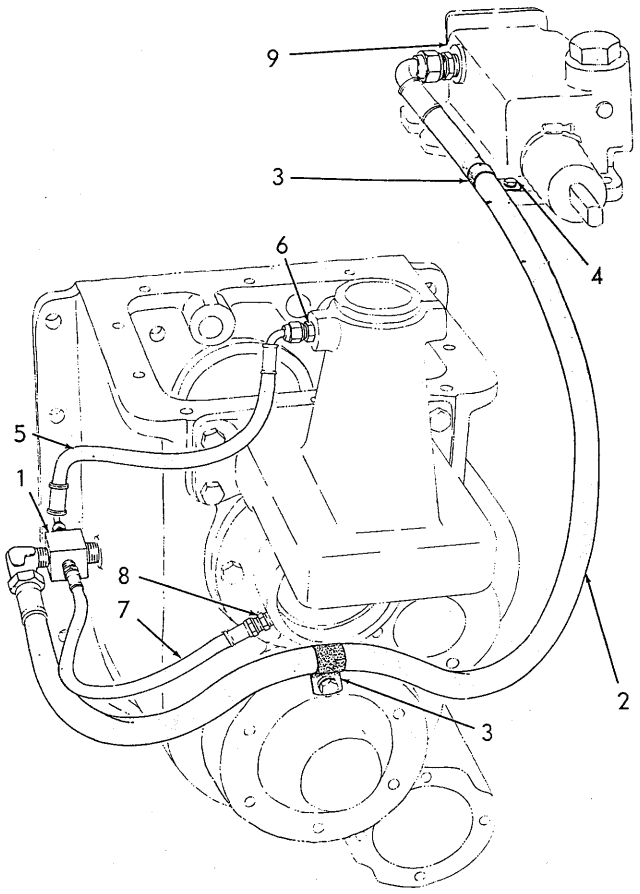



T-24195

TRANSMISSION HIGH SPEED REVERSE

USAGE: For field installation only. Provides 15% increase over standard reverse speed.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 080230 | 1 | GEAR, reverse, pinion shaft (20 teeth) (Replaces standard reverse gear 052051) |
| 2 | 065514 | 1 | RING, adapting, reverse gear shaft |
| 3 | 065512 | 2 | RING, snap, reverse gear shaft |
| 4 | 065513 | 1 | RING, snap, reverse gear shaft |
| 5 | 057773 | 2 | BEARING, ball, reverse shaft gear |
| 6 | 080227 | 1 | GEAR, reverse shaft (24 teeth) (Replaces standard reverse shaft gear 051773) |
| 7 | 065516 | 1 | SHAFT, reverse gear |
| 8 | 052476 | 1 | GASKET, hub |
| 9 | 080228 | 1 | HUB, reverse gear shaft |
| 10 | 921556 | 3 | CAPSCREW, 1/2"NC x 2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 11 | ------ | - | RETAINER } See TRANSMISSION |
| 12 | ------ | - | GASKET } See TRANSMISSION |
| 13 | ------ | - | RING } See TRANSMISSION |

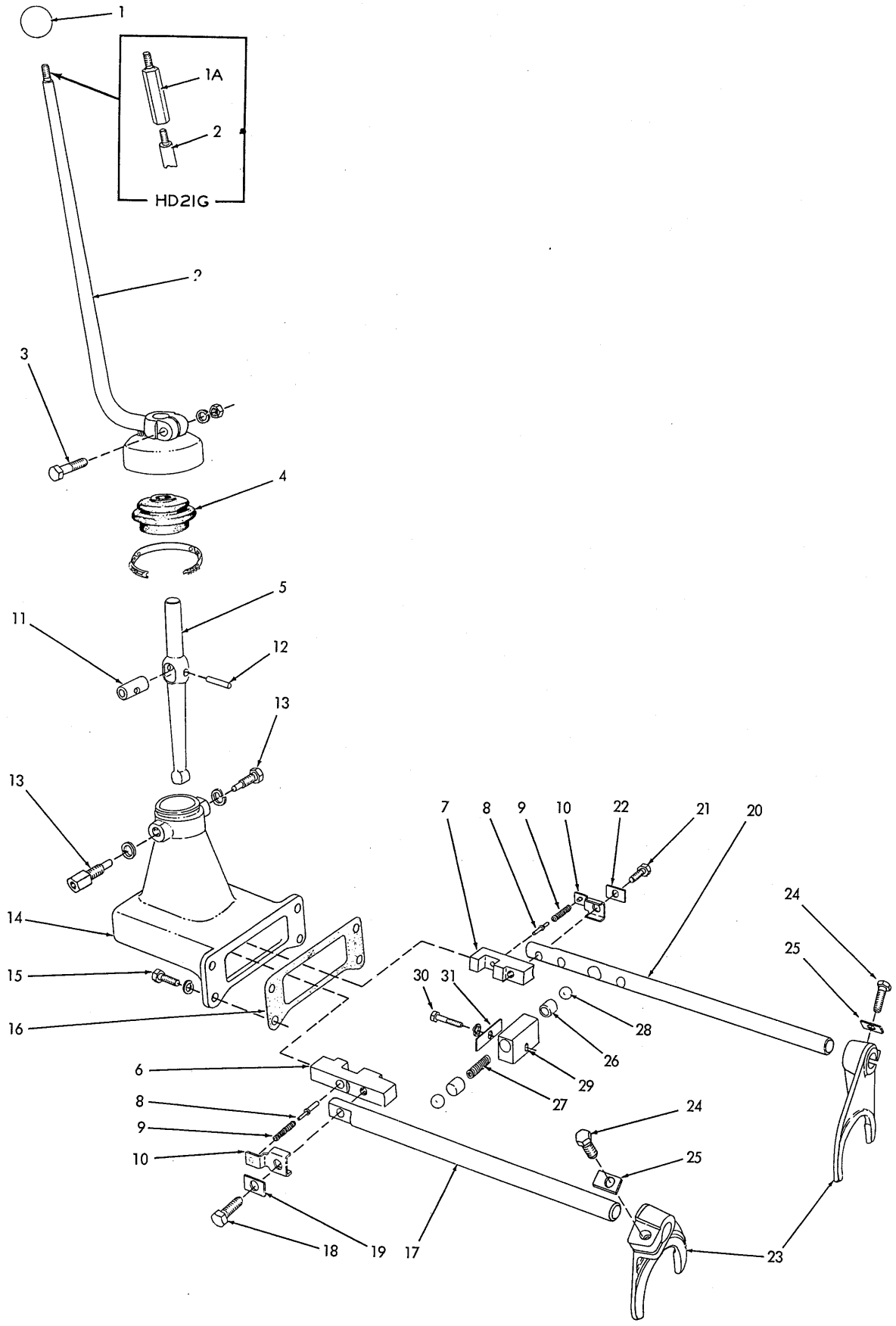



T-30889

## TRANSMISSION OIL LINES

USAGE: Tractor serial No. 12001 and up, including Nos. 11808 and 11809

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 623174 | 1 | TEE, oil distributing |
| 2 | 646341 | 1 | HOSE, brake valve to transmission case (See page 6)(Standard equipment) |
| | 919615 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 920751 | 1 | ELBOW, flare type, 3/4" tube, 1/2"NPT male |
| | 625682 | 1 | HOSE ASSEMBLY, brake valve to transmission case (See page 6 for parts)(Special. Used only with hydraulic diverter valve installations) |
| | 920751 | 2 | ELBOW, flare type, 3/4" tube, 1/2"NPT male |
| 3 | 622916 | 2 | CLIP, oil hose |
| 4 | 042430 | 1 | CAPSCREW, 1/2"NF x 3-1/4" } Used with hydraulic diverter valve installation only |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 624516 | 1 | BLOCK, spacing |
| 5 | 623306 | 1 | HOSE ASSEMBLY, tee to gear shift housing (See page 6 for parts) |
| | 919140 | 1 | CONNECTOR, flare type, 1/4" tube, 1/4"NPT male |
| 6 | 623602 | 1 | CONNECTOR, flare type, restricted, 1/4"tube, 1/4"NPT male |
| 7 | 623305 | 1 | HOSE ASSEMBLY, tee to top shaft bearing retainer (See page 6 for parts) |
| | 919140 | 1 | CONNECTOR, flare type, 1/4" tube, 1/4"NPT male |
| 8 | 623589 | 1 | CONNECTOR, flare type, restricted, 1/4" tube, 1/4"NPT male |
| 9 | ------ | 1 | VALVE ASSEMBLY, left brake (See HYDRAULIC BRAKES) |


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T-11268

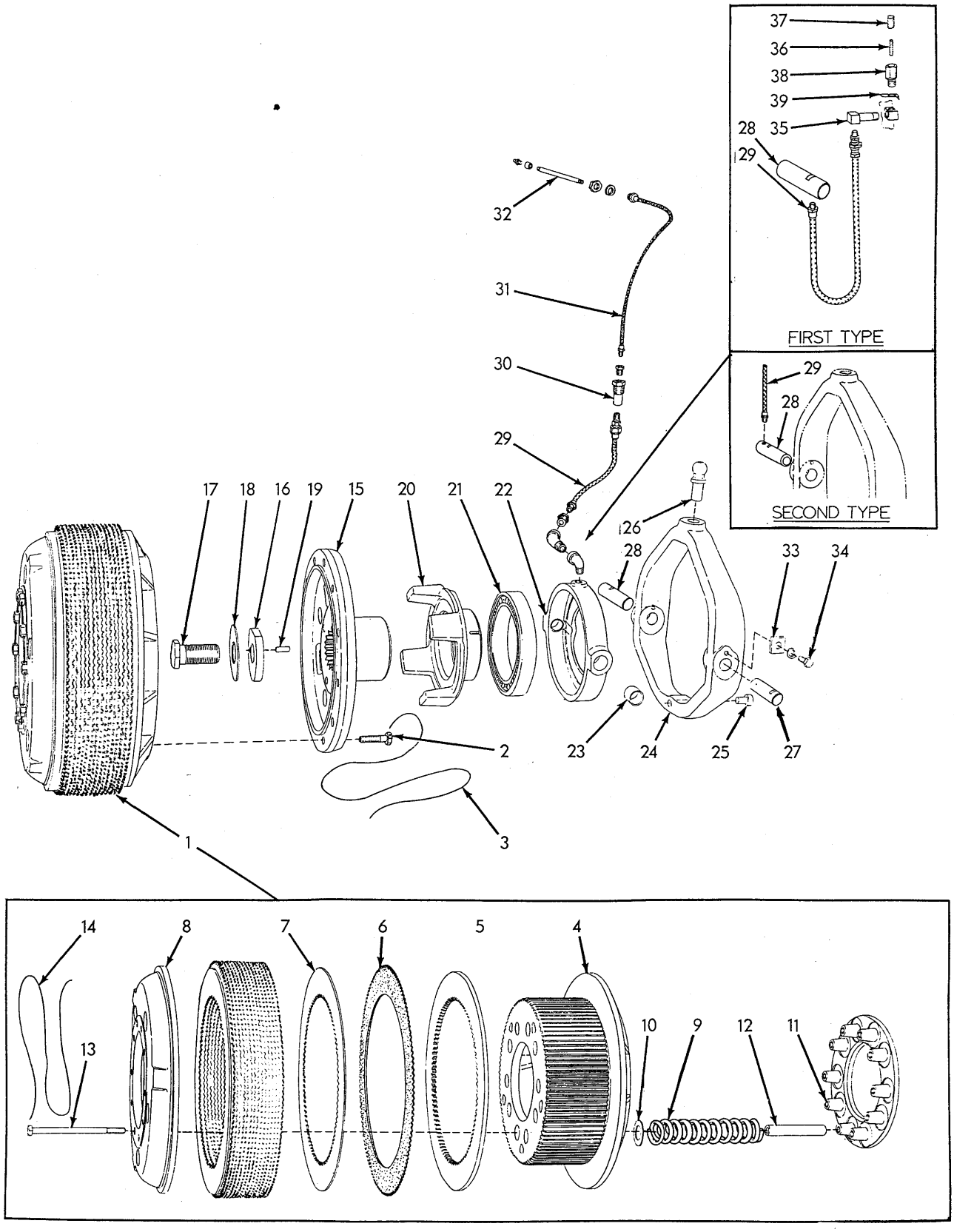
GEAR SHIFT

## GEAR SHIFT

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 091862 | 1 | BALL, shifting lever |
| 1A | 089549 | 1 | EXTENSION, gear shift lever (Model HD21G only) |
| 2 | 059108 | 1 | LEVER, shifting, upper section (Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 623265 | 1 | LEVER, shifting, upper section (Effective on Model HD21G with tractor #11725, excluding #11798) |
| 3 | 035068 | 1 | CAPSCREW, 1/2"NF x 2-1/4" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | NUT, 1/2"NF |
| 4 | 078742 | 1 | BOOT, shifting lever |
| | 916995 | 1 | CLAMP, hose, 3" I.D. |
| 5 | 622808 | 1 | LEVER, shifting, lower section |
| 6 | 065262 | 1 | BLOCK, left shifting fork shaft |
| 7 | 065257 | 1 | BLOCK, right shifting fork shaft |
| 8 | 065256 | 2 | PIN, lock |
| 9 | 036422 | 2 | SPRING, lock |
| 10 | 065260 | 2 | CLIP ASSEMBLY, spring retaining (Includes riveted pin) |
| 11 | 622080 | 1 | SHAFT, pivot, shifting lever |
| 12 | 915500 | 1 | PIN, roll, 3/8" x 1-3/4" |
| 13 | 621329 | 2 | SCREW, pivot, shifting lever shaft (dog-pt., 5/8"NC x 2") (1 less used effective with tractor #12001, including tractors #11808 and #11809) |
| | 621663 | 1 | SCREW, pivot, shifting lever shaft, left side (drilled oil passage)(Effective with tractor #12001, including tractors #11808 and #11809) |
| | 904209 | 2 | LOCKWASHER, 5/8" |
| 14 | 052447 | 1 | HOUSING, shifting lever |
| 15 | 035190 | 4 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 16 | 052478 | 1 | □GASKET, shifting lever housing |
| 17 | 089805 | 1 | SHAFT, shifting fork, left |
| 18 | 035018 | 1 | CAPSCREW, 1/2"NF x 1-1/2" |
| 19 | 029752 | 1 | LOCK, capscrew |
| 20 | 089806 | 1 | SHAFT, shifting fork, right |
| 21 | 035018 | 1 | CAPSCREW, 1/2"NF x 1-1/2" |
| 22 | 029752 | 1 | LOCK, capscrew |
| 23 | 641058 | 2 | FORK, shifting |
| 24 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| 25 | 029752 | 2 | LOCK, capscrew |

□Also see PACKAGED PARTS

(Continued)




T-15144

STEERING CLUTCHES (First type)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 26 | 052655 | 2 | PLUNGER, locking, shifting fork shaft |
| 27 | 099138 | 1 | SPRING, locking plunger |
| 28 | 905367 | 2 | BALL, steel, 3/4" diam. |
| 29 | 052657 | 1 | BLOCK, shifting shaft locking plunger |
| 30 | 053616 | 1 | CAPSCREW, 3/8"NC x 1-3/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 31 | 622113 | 1 | PLATE, stop |

## STEERING CLUTCHES

USAGE: Tractors prior to serial No. 12001, excluding Nos. 11808 and 11809

* Used prior to tractor serial No. 7708
** Used on tractors serial No. 7708 thru 9090.
*** Effective with tractor serial No. 9091.

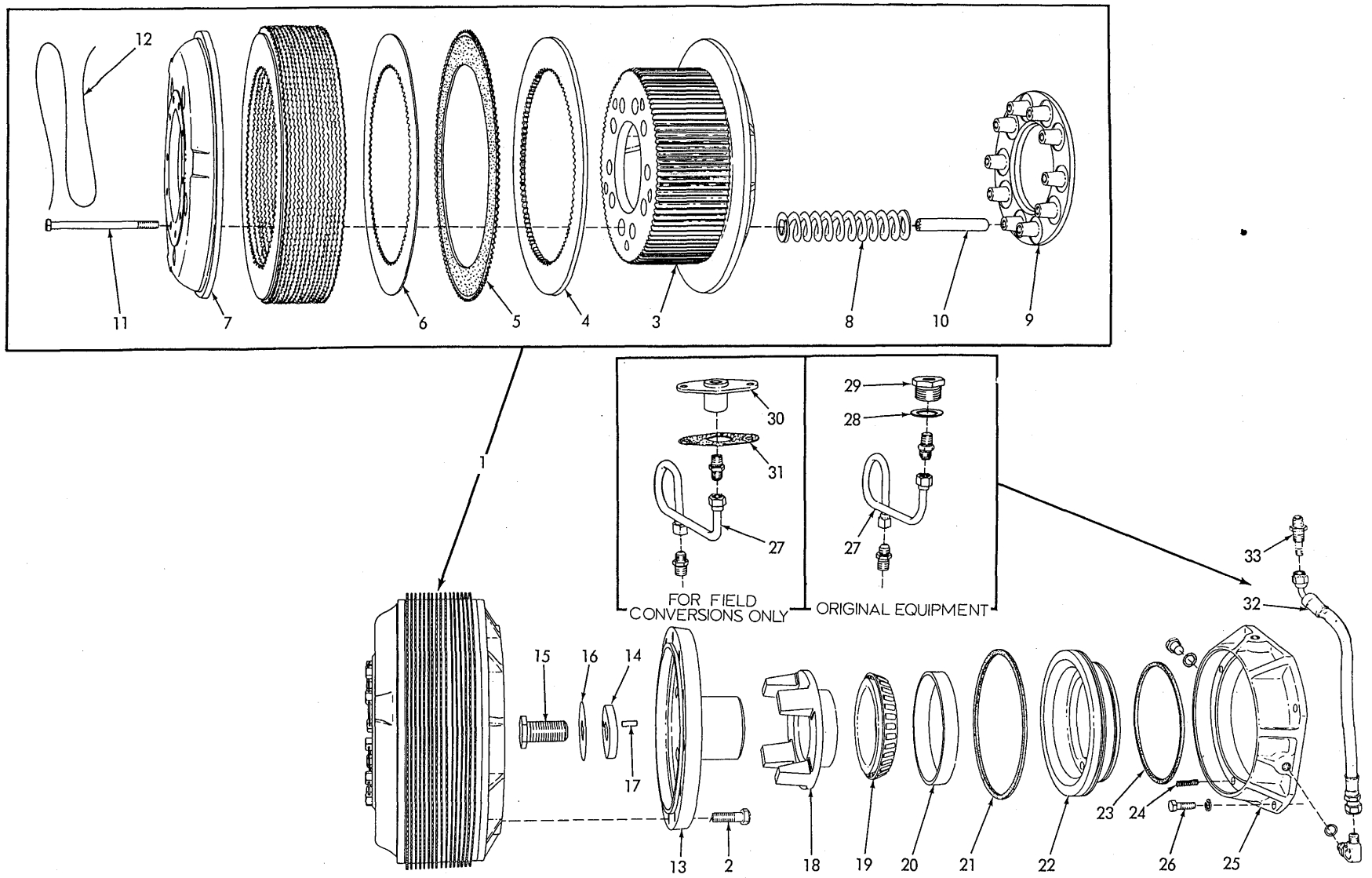
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 052094 | 2 | 2 | - | CLUTCH ASSEMBLY (Consists of items 4 thru 14) |
| | 093808 | - | - | 2 | CLUTCH ASSEMBLY (Consists of items 4 thru 14) |
| 2 | 035814 | 24 | 24 | - | CAPSCREW, drilled-hd., 1/2"NC x 1-3/4" |
| | 041266 | - | - | 24 | CAPSCREW, drilled-hd., 5/8"NC x 2" |
| 3 | 037000 | 12 | 12 | 12 | WIRE, locking, 1/16" x 16" |
| 4 | 051949 | 2 | 2 | - | HUB, steering clutch |
| | 093954 | - | - | 2 | HUB, steering clutch |
| 5 | 052117 | 2 | 2 | 2 | PLATE, back |
| 6 | 051953 | 28 | 28 | 28 | DISC, friction (bimetallic) |
| | 092794 | 4 | 4 | 4 | DISC, friction (bimetallic, tapered thickness) |
| 7 | 623018 | 34 | 34 | 34 | DISC, friction (steel)(Use as required) |
| 8 | 054809 | 2 | 2 | 2 | PLATE, pressure |
| 9 | 086940 | 20 | 20 | 20 | SPRING, pressure |
| 10 | 049105 | 20 | 20 | 20 | WASHER, spring insulating |
| 11 | 051836 | 2 | 2 | 2 | PLATE, throwout |
| 12 | 052118 | 20 | 20 | 20 | SPACER, throwout plate |
| 13 | 052119 | 20 | 20 | 20 | CAPSCREW, plate (drilled-hd., 1/2"NF x 6-1/2") |
| 14 | 052519 | 4 | 4 | 4 | WIRE, locking, 1/16" x 39" |

(Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 15 | 051954 | 2 | 2 | - | HUB, driving (wide splines) |
| | 093950 | - | - | 2 | HUB, driving (narrow splines) |
| 16 | 623345 | 2 | 2 | 2 | WASHER ASSEMBLY, hub retaining (Includes item 19)(When making first replacement also order WASHER 623347) |
| 17 | 071085 | 2 | 2 | 2 | BOLT, thin-hd., 1-1/4"NF x 2-1/2" |
| 18 | 623347 | 2 | 2 | 2 | WASHER, locking |
| 19 | 052066 | 2 | 2 | 2 | PIN, hub retaining washer |
| 20 | 095378 | 2 | 2 | 2 | SLEEVE, throwout |
| 21 | 095371 | 2 | 2 | 2 | BEARING, ball, clutch throwout |
| 22 | 621466 | 2 | 2 | 2 | CAGE ASSEMBLY, throwout bearing (Includes item 23 and 1 PLUG 901652) |
| | 901652 | 2 | 2 | 2 | PLUG, pipe, 1/4"NPT (Used prior to tractor #11001, excluding #9446 thru #9449)(See item 40) |
| 23 | 051957 | 4 | 4 | 4 | BUSHING, pivot, throwout bearing cage |
| 24 | 052220 | 2 | 2 | 2 | YOKE ASSEMBLY, throwout (Includes items 25 and 26) |
| 25 | 050220 | 2 | 2 | 2 | PIN, wear, throwout yoke |
| 26 | 052062 | 2 | 2 | 2 | BALL, throwout yoke |
| 27 | 051958 | 2 | 2 | 2 | PIN, trunnion, throwout yoke, rear |
| 28 | 082017 | 2 | - | - | PIN, trunnion, throwout yoke, front |
| | 088722 | - | 2 | 2 | PIN, trunnion, throwout yoke, front (Used prior to tractor #11840)(See item 40) |
| | 051958 | - | - | 2 | PIN, trunnion, throwout yoke, front (Effective with tractor #11840) |
| 29 | 082016 | 2 | 2 | 2 | HOSE, lubricating, throwout bearing, lower (15" long)(Used prior to tractor #11001)(See item 40) |
| | 099993 | - | - | 2 | HOSE, lubricating, throwout bearing, lower (14" long)(Effective with tractor #11001) |
| | 901722 | - | - | 2 | ELBOW, street, 90°, 1/4"NPT } Effective with tractor #11840 |
| | 907058 | - | - | 2 | ELBOW, street, 45°, 1/4"NPT } Effective with tractor #11840 |
| | 901825 | - | - | 2 | BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT } Effective with tractor #11840 |
| 30 | 044622 | - | 2 | 2 | BUSHING, hose connecting } Also see item 40 |
| | 901825 | - | 2 | 2 | BUSHING, pipe reducing, 1/4"NPT to 1/8"NPT } Also see item 40 |
| 31 | 033137 | - | 2 | 2 | HOSE, lubricating, throwout bearing, upper (24" long) } Also see item 40 |
| | 911049 | - | 2 | 2 | NUT, jam, 5/8"NF } Also see item 40 |
| | 904209 | - | 2 | 2 | LOCKWASHER, 5/8" } Also see item 40 |
| | 915274 | - | 2 | 2 | FITTING, lubricating, 45°, 1/8"NPT (HD21G tractors; also HD21A when equipped with Bucket Seat and HD21F effective with tractor #11563) } Also see item 40 |

(Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION | |
|---|---|---|---|---|---|---|
| 32 | 088723 | - | 2 | 2 | PIPE, lubricating, throwout bearing (HD21A except when equipped with Bucket Seat; also HD21F prior to tractor #11563) | Also see item 40 |
| | 901763 | - | 2 | 2 | COUPLING, pipe, 1/8"NPT | |
| | 914465 | - | 2 | 2 | FITTING, lubricating, straight, 1/8"NPT | |
| 33 | 052505 | 4 | 4 | 4 | BLOCK, locking, throwout yoke trunnion pin | |
| 34 | 035244 | 4 | 4 | 4 | CAPSCREW, 3/8"NC x 3/4" | |
| | 904206 | 4 | 4 | 4 | LOCKWASHER, 3/8" | |
| 35 | 042538 | 2 | - | - | ELBOW, lubricating hose (90°, 1/4"NPT male and female, long type) | |
| 36 | 082727 | 2 | - | - | WICK, oiling, clutch throwout bearing, lower | |
| 37 | 082726 | 2 | - | - | WICK, oiling, clutch throwout bearing, upper | |
| 38 | 075434 | 2 | - | - | HOLDER, oiling wick | |
| 39 | 075432 | 2 | - | - | LOCK, oiling wick holder | |
| 40 | 089293 | - | 1 | 1 | LUBRICATION KIT, steering clutch throwout bearing (Consists of two each HOSE 033137, BUSHING 044622, HOSE 082016, PIN 088722, PIPE 088723, PLUG 901652, COUPLING 901763, BUSHING 901825, LOCKWASHER 904209, NUT 911049 and FITTING 914465)(Used prior to tractor #11001)(Not illustrated) | |




T-30885

STEERING CLUTCHES (Second type)

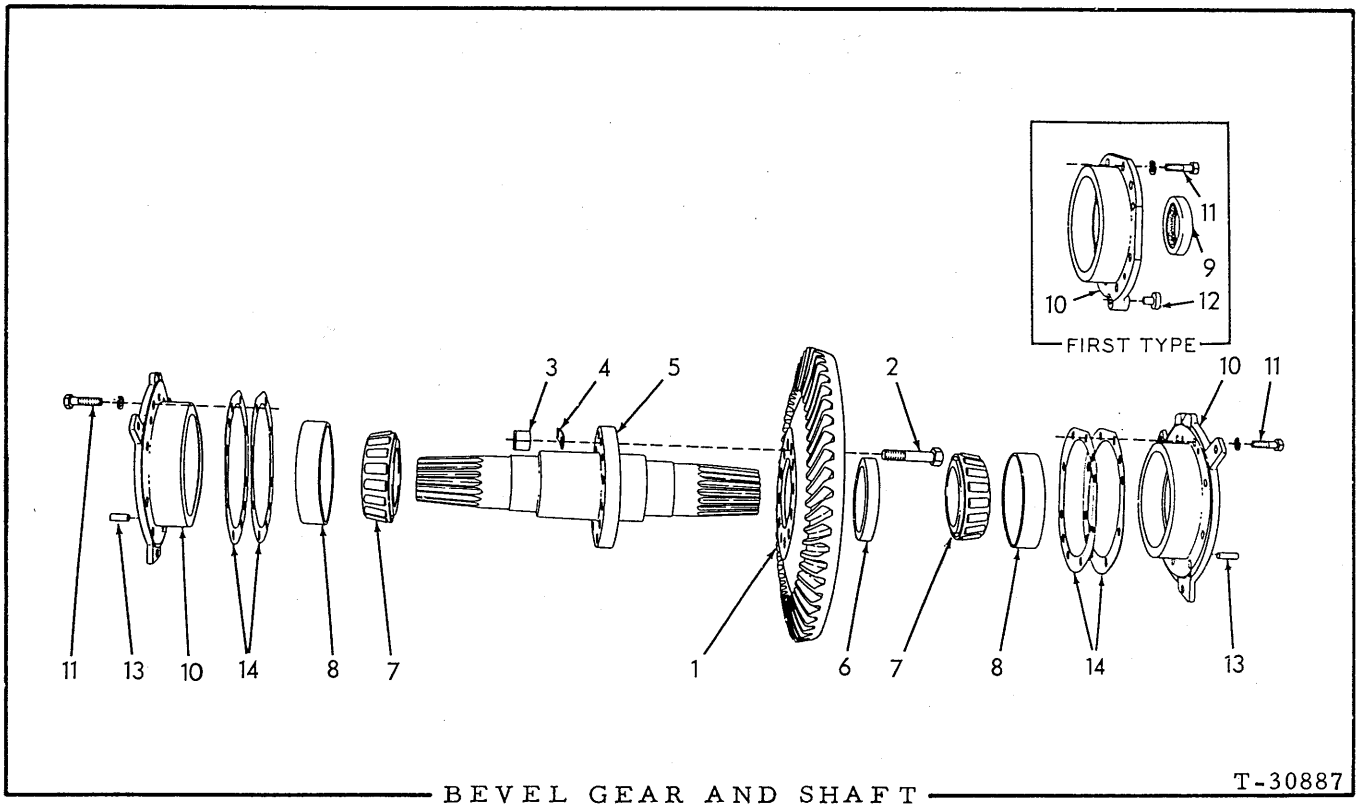
# STEERING CLUTCHES

USAGE: Tractor serial No. 12001 and up, including Nos. 11808 and 11809

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 623010 | 2 | CLUTCH ASSEMBLY (Consists of items 3 thru 12) |
| 2 | 650812 | 24 | BOLT, self-locking, 5/8"NC x 2" |
| 3 | 093954 | 2 | HUB, steering clutch |
| 4 | 052117 | 2 | PLATE, back |
| 5 | 623017 | 32 | DISC, friction (bimetallic) |
| 6 | 623018 | 34 | DISC, friction (steel)(Use as required) |
| 7 | 054809 | 2 | PLATE, pressure |
| 8 | 623016 | 20 | SPRING, pressure |
| 9 | 051836 | 2 | PLATE, throwout |
| 10 | 052118 | 20 | SPACER, throwout plate |
| 11 | 052119 | 20 | CAPSCREW, plate (drilled-hd., 1/2"NF x 6-1/2") |
| 12 | 052519 | 4 | WIRE, locking, 1/16" x 39" |
| 13 | 623013 | 2 | HUB, driving |
| 14 | 623345 | 2 | WASHER ASSEMBLY, hub retaining (Includes item 17) |
| 15 | 071085 | 2 | BOLT, thin-hd., 1-1/4"NF x 2-1/2" |
| 16 | 623347 | 2 | WASHER, locking |
| 17 | 052066 | 2 | PIN, hub retaining washer |
| 18 | 623014 | 2 | SLEEVE, throwout |
| 19 | 623007 | 2 | CONE ASSEMBLY, clutch throwout bearing |
| 20 | 623008 | 2 | CUP, clutch throwout bearing |
| 21 | 623003 | 2 | RING, sealing, actuating piston, outer |
| 22 | 623012 | 2 | PISTON, actuating |
| 23 | 623004 | 2 | RING, sealing, actuating piston, inner |
| 24 | 040475 | 6 | SPRING, actuating piston |
| 25 | ------ | 2 | RING, collector (Original equipment. Order 1 each RING 642448, HOSE ASSEMBLY 645074, PLUG 921573 and ELBOW 921402) |
| | 642448 | 2 | RING, collector (Service replacement) |
| | 921573 | 2 | PLUG, hex-hd., 3/4" straight thread (Includes O-RING 921349) |
| 26 | 035733 | 6 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 27 | 628747 | 2 | TUBE ASSEMBLY, oil pressure (Includes nuts)(Original equipment) |
| | 624680 | 2 | TUBE ASSEMBLY, oil pressure (Includes nuts)(Used only in field conversions of tractors prior to #12001) |
| | 919128 | 4 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male (2 less used with tractor #12168 and up including #12163) |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 28 | 035249 | 2 | GASKET, pressure tube bushing | Used prior to tractor #12168, excluding #12163 |
| 29 | 623005 | 2 | BUSHING, pressure tube connection | |
| 30 | 624679 | 2 | *ADAPTER, pressure tube connection | Used only in field conversions of tractors prior to #12001 |
| 31 | 624504 | 2 | GASKET, pressure tube adapter | |
| 32 | 645074 | 2 | HOSE, oil pressure (See page 6) (Service replacement) | |
| | 921402 | 2 | ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" straight thread (Includes washer, nut and O-RING 921349) | |
| 33 | ------ | 2 | UNION (See CONTROL VALVE AND LINES) | |



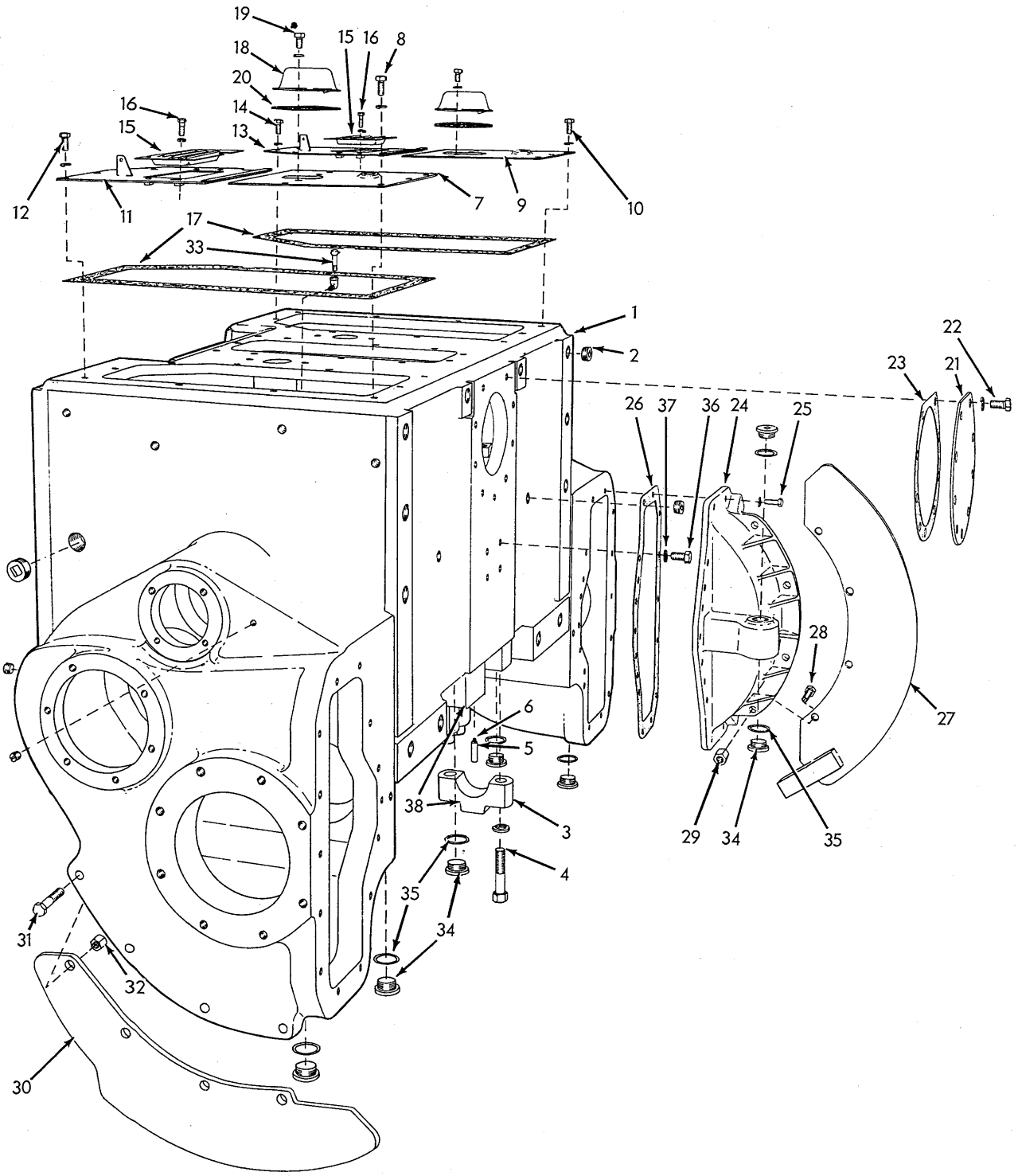

BEVEL GEAR AND SHAFT

# BEVEL GEAR AND SHAFT

* Tractors prior to serial No. 12001, excluding Nos. 11808 and 11809

** Tractor serial No. 12001 and up, including Nos. 11808 and 11809

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 067322 | 1 | - | GEAR, bevel (52 teeth)(Used only with 14-tooth PINION AND SHAFT 082201 on Model HD21A tractors prior to #9001) |
| | 068913 | 1 | - | GEAR, bevel (52 teeth)(Used only with 12-tooth PINION AND SHAFT 082826 to provide slow speeds on tractors prior to #9001. Standard on Models HD21F and G. Optional on Model HD21A) |
| | 090254 | 1 | 1 | GEAR, bevel (45 teeth)(Used on all models effective with tractor #9001) |
| 2 | 645321 | 12 | 12 | CAPSCREW, 3/4"NF x 3-1/4" |
| 3 | 012767 | 12 | 12 | NUT, high, 3/4"NF |
| 4 | 067325 | 6 | 6 | PLATE, locking |
| 5 | 067323 | 1 | - | SHAFT, bevel gear (wide splines)(Used prior to tractor #9091) |
| | 093945 | 1 | 1 | SHAFT, bevel gear (narrow splines)(Effective with tractor #9091) |
| 6 | 067324 | 1 | 1 | RING, locking, bevel gear capscrew (5" O. D. )(Original equipment) |
| | 645316 | 1 | 1 | RING, locking, bevel gear capscrews (4-7/8" O. D. )(Service replacement) |
| 7 | 051997 | 2 | 2 | CONE ASSEMBLY, shaft bearing |
| 8 | 042877 | 2 | 2 | CUP, shaft bearing |
| 9 | 052392 | 2 | - | SEAL, oil (3-3/4" O. D. )(Used prior to tractor #9091) |
| | 628940 | 2 | - | SEAL, oil (4-1/4" O. D. )(Effective with tractor #9091) |
| 10 | 067373 | 2 | - | CAGE ASSEMBLY, bearing (Includes item 12)(Used prior to tractor #9091) |
| | 093948 | 2 | - | CAGE ASSEMBLY, bearing (Includes item 12)(Effective with tractor #9091) |
| | 623006 | - | 2 | CAGE ASSEMBLY, bearing (Includes item 13) |
| 11 | 035073 | 16 | 16 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 16 | 16 | LOCKWASHER, 1/2" |
| 12 | 052125 | 2 | - | PIN, wear, bearing retainer |
| 13 | 052459 | - | 4 | PIN, bearing cage |
| 14 | 067483 | 12 | 12 | SHIM, bearing adjustment (. 005" thick. Use as required) |
| | 067484 | 10 | 12 | SHIM, bearing adjustment (. 007" thick. Use as required) |
| | 067485 | 4 | 4 | SHIM, bearing adjustment (. 030" thick. Use as required) |




T-27406

STEERING CLUTCH AND FINAL DRIVE HOUSING (First type)

# STEERING CLUTCH AND FINAL DRIVE HOUSING

USAGE: Tractors prior to serial No 12001, excluding Nos. 11808 and 11809

* Tractors prior to serial No. 11856, excluding Nos. 11801 thru 11806
** Tractor serial No. 11856 and up, including Nos. 11801 thru 11806

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | - | HOUSING ASSEMBLY (Order 1 HOUSING 622542, 2 each COVER 631092, GASKET 621486, CAGE 621479, PLUG 901666; 12 CAPSCREW 023465. If for tractors prior to #11404, including #11410, 11411, 11412, 11413 and 11419, also order 2 each SHIM 099429, BRACKET 099427; 8 each CAPSCREW 070161, CAPSCREW 012453, LOCKWASHER 904369. If for tractors prior to #9214 add 14 SHIM 094122, 4 SHIM 094121, 4 SHIM 094120 and 12 LOCKWASHER 904209. If for tractors prior to #8741 add 2 each COVER 091573, O-RING 923824 and PLUG 912725. If for tractors prior to #7708 add 2 each PIN 088722, HOSE 082016, BUSHING 044622, FITTING 914465 and BUSHING 901825) |
| | 622542 | - | 1 | HOUSING ASSEMBLY (Includes items 3 thru 6) |
| | 901652 | 2 | - | PLUG, pipe, 1/4"NPT (Used on tractors #7708 thru #9098) |
| | 911081 | 2 | 2 | PLUG, pipe, slotted-hd., 1/4"NPT |
| | 907070 | 2 | - | PLUG, pipe, ctsk-hd., 1/4"NPT (Used on tractors #9121 thru #9347) |
| | 904223 | 4 | 4 | PLUG, pipe, ctsk-hd., 1/2"NPT (2 less used prior to tractor #9348) |
| | 904224 | 2 | - | PLUG, pipe, ctsk-hd., 3/4"NPT (Used prior to tractor #9121) |
| | 901667 | 2 | 2 | PLUG, pipe, ctsk-hd., 1-1/4"NPT |
| 2 | 052979 | 6 | 6 | PLUG, thread protecting (1-1/4"NF, socket-hd.) |
| 3 | 058019 | 4 | 4 | CAP, truck frame pivot shaft (Also see item 38) |
| 4 | 073424 | 8 | 8 | CAPSCREW, 1"NF x 4" |
| | 910916 | 8 | 8 | LOCKWASHER, 1" |
| 5 | 076726 | 2 | 2 | WICK ASSEMBLY, pivot shaft lubricating (Consists of 1 PIN and 1 WICK 050357)(Also serves as dowel pin for pivot shaft) |
| 6 | 050357 | 2 | 2 | WICK, pivot shaft lubricating |
| 7 | 081379 | 1 | 1 | COVER, left steering clutch compartment, rear section (Used prior to tractor #11859, excluding #11801 thru 11806) |
| | 622045 | - | 1 | COVER, left steering clutch compartment, rear section (Effective with tractor #11859, including #11801 thru 11806) |
| 8 | 070467 | 5 | 5 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 5 | 5 | LOCKWASHER, 1/2" |
| 9 | 081380 | 1 | 1 | COVER, right steering clutch compartment, rear section (Used prior to tractor #11859, excluding #11801 thru 11806) |
| | 622046 | - | 1 | COVER, right steering clutch compartment, rear section (Effective with tractor #11859, including #11801 thru 11806) |
| 10 | 070467 | 5 | 5 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 5 | 5 | LOCKWASHER, 1/2" |

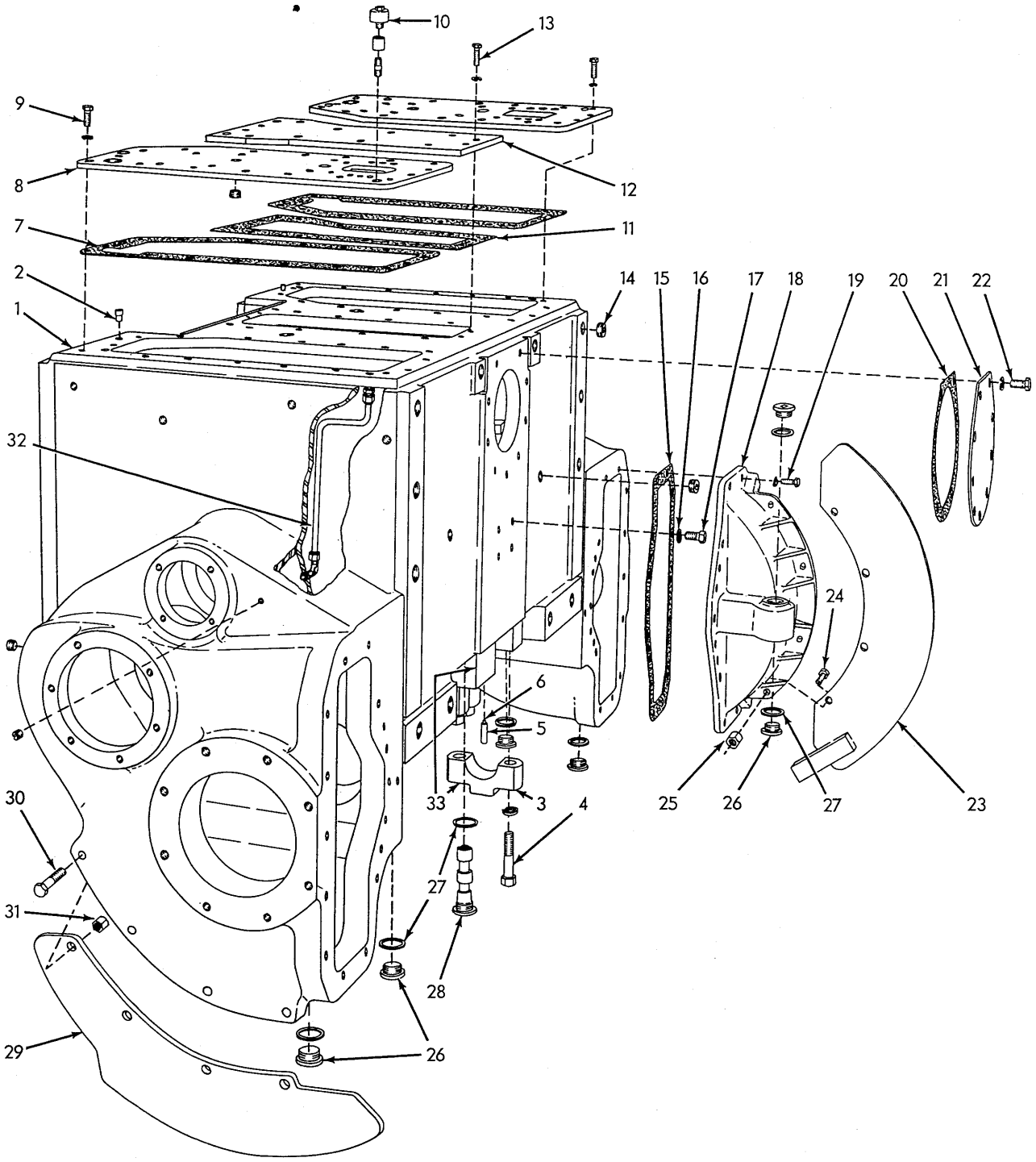
(Continued)

## STEERING CLUTCH AND FINAL DRIVE HOUSING (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 11 | 081389 | 1 | - | COVER, left steering clutch compartment, front section (Used prior to tractor #11385) |
| | 099207 | 1 | 1 | COVER, left steering clutch compartment, front section (Effective with tractor #11385) |
| 12 | 070467 | 5 | 5 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 5 | 5 | LOCKWASHER, 1/2" |
| 13 | 081390 | 1 | - | COVER, right steering clutch compartment, front section (Used prior to tractor #11385) |
| | 099208 | 1 | 1 | COVER, right steering clutch compartment, front section (Effective with tractor #11385) |
| 14 | 070467 | 5 | 5 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 5 | 5 | LOCKWASHER, 1/2" |
| 15 | 099196 | 2 | 2 | PLATE, ventilating, steering clutch compartment (Effective with tractor #11385) |
| 16 | 036034 | 8 | 8 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 8 | 8 | LOCKWASHER, 3/8" |
| 17 | 054723 | 2 | 2 | GASKET, steering clutch compartment covers (Also see item 39) |
| 18 | 052922 | 2 | 2 | COVER, brake band adjustment (Used prior to tractor #11859, excluding #11801 thru 11806) |
| | 622043 | - | 2 | COVER, brake band adjustment (Effective with tractor #11859, including #11801 thru 11806) |
| 19 | 067480 | 4 | 4 | CAPSCREW, 1/2"NF x 3/4" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 20 | 066596 | 2 | 2 | GASKET, brake band adjustment cover (Also see item 39) |
| 21 | 052977 | 1 | 1 | COVER, gear compartment (Power take-off opening) |
| 22 | 070590 | 9 | - | CAPSCREW, 5/8"NF x 1-1/8" (Used prior to tractor #9359) |
| | 035392 | 9 | 9 | CAPSCREW, 5/8"NC x 1-1/4" (Effective with tractor #9359) |
| | 904209 | 9 | 9 | LOCKWASHER, 5/8" |
| 23 | 052976 | 1 | 1 | GASKET, gear compartment cover (Also see item 39) |
| 24 | 620399 | 2 | - | COVER, final drive compartment |
| | 631092 | - | 2 | COVER, final drive compartment (When making first replacement also order 4 CAPSCREWS 070161) |
| 25 | 035018 | 32 | 32 | CAPSCREW, 1/2"NF x 1-1/2" (4 less used prior to tractor #11732, excluding #11711, 11716 and 11729) |
| | 904208 | 32 | 32 | LOCKWASHER, 1/2" |
| 26 | 620408 | 2 | - | GASKET, final drive compartment cover (Also see item 39) |
| | 621486 | - | 2 | GASKET, final drive compartment cover |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 27 | 621495 | 1 | 1 | GUARD, track sprocket, upper left } Standard |
| | 621496 | 1 | 1 | GUARD, track sprocket, upper right } Standard |
| | 634203 | 1 | 1 | GUARD, track sprocket, upper left } Special heavy-duty |
| | 634204 | 1 | 1 | GUARD, track sprocket, upper right } Special heavy-duty |
| 28 | 023618 | 8 | 8 | CAPSCREW, 5/8"NF x 2-1/2" (Original equipment) |
| | 070161 | 8 | 8 | CAPSCREW, 5/8"NF x 2-3/4" (Service replacement) |
| 29 | 904209 | 8 | - | LOCKWASHER, 5/8" } Used prior to tractor #2565 |
| | 911044 | 8 | - | NUT, 5/8"NF } Used prior to tractor #2565 |
| | 072366 | 8 | 8 | NUT, high, 5/8"NF (Effective with tractor #2565) |
| 30 | 621493 | 1 | 1 | GUARD, track sprocket, lower left } Standard |
| | 621494 | 1 | 1 | GUARD, track sprocket, lower right } Standard |
| | 621563 | 1 | 1 | GUARD, track sprocket, lower left } Special heavy-duty |
| | 621564 | 1 | 1 | GUARD, track sprocket, lower right } Special heavy-duty |
| 31 | 023618 | 8 | 8 | CAPSCREW, 5/8"NF x 2-1/2" |
| 32 | 904209 | 8 | - | LOCKWASHER, 5/8" } Used prior to tractor #2565 |
| | 911044 | 8 | - | NUT, 5/8"NF } Used prior to tractor #2565 |
| | 072366 | 8 | 8 | NUT, high, 5/8"NF (Effective with tractor #2565) |
| 33 | 051447 | 2 | 2 | BREATHER ASSEMBLY, final drive compartment (Serviced only as a unit) |
| | 907059 | 2 | 2 | ELBOW, street, 90°, 1/8"NPT |
| 34 | 035250 | 9 | 9 | PLUG, filling and drain |
| 35 | 035249 | 9 | 9 | GASKET, filling and drain plugs (Also see item 39) |
| 36 | 070590 | 4 | - | CAPSCREW, hole plugging (5/8"NF x 1-1/8")(Used prior to tractor #9359) |
| | 035392 | 4 | 4 | CAPSCREW, hole plugging (5/8"NC x 1-1/4")(Effective with tractor #9359) |
| 37 | 049918 | 4 | 4 | WASHER, hole plugging capscrew (copper) |
| 38 | J96214 | 2 | 2 | CAP ASSEMBLY, truck frame pivot shaft, inner |
| | 096213 | 2 | 2 | CAP ASSEMBLY, truck frame pivot shaft, outer |
| | | | | NOTE: Each Cap Assembly includes items 3 and 4; also upper block which requires welding to housing. |
| 39 | 069626 | 1 | - | GASKET SET (Consists of items 17, 20, 23, 26 and 3 GASKETS 035249)(Not illustrated) |




T-30905

STEERING CLUTCH AND FINAL DRIVE HOUSING (Second type)

# STEERING CLUTCH AND FINAL DRIVE HOUSING

USAGE: Tractor serial No. 12001 and up, including Nos. 11808 and 11809

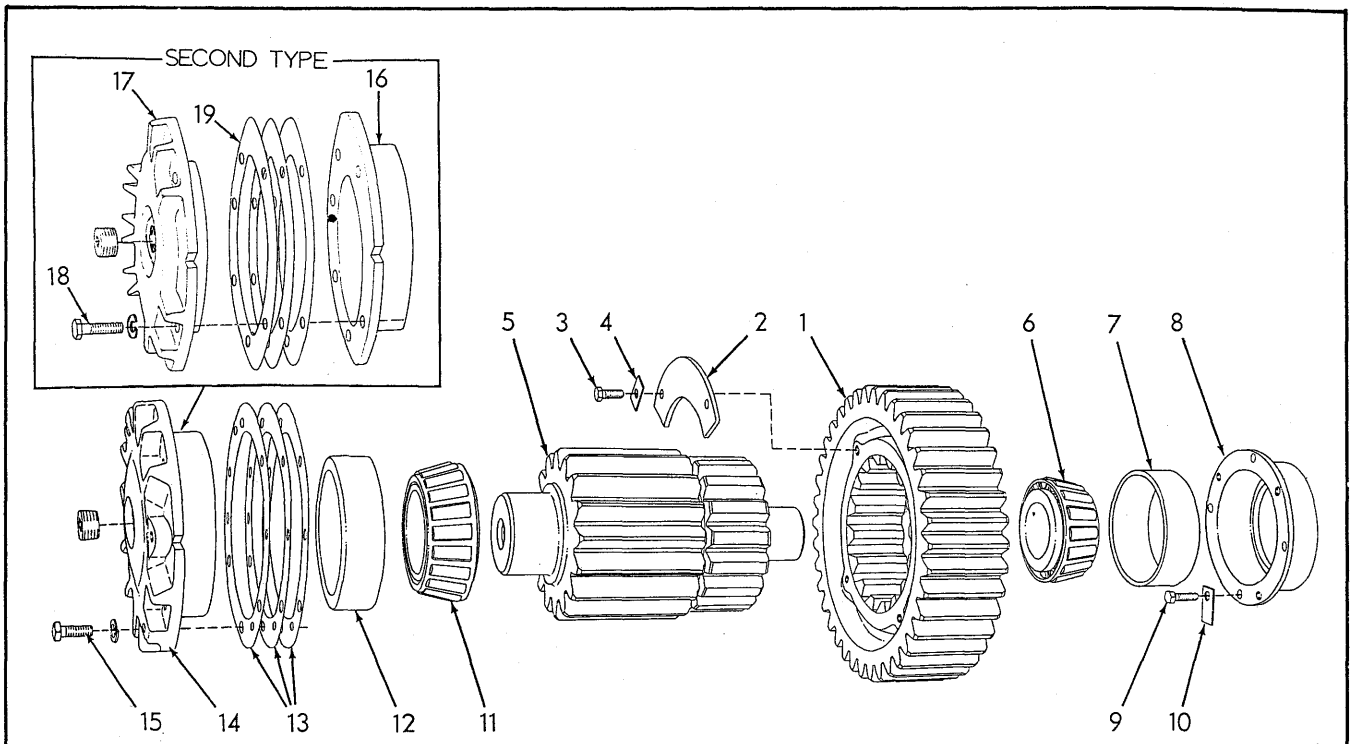
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 623121 | 1 | HOUSING ASSEMBLY (Includes items 2 thru 6) |
| | 911081 | 2 | PLUG, pipe, slotted-hd., 1/4"NPT |
| | 904223 | 4 | PLUG, pipe, ctsk-hd., 1/2"NPT |
| 2 | 643740 | 2 | PIN, dowel, clutch compartment covers |
| 3 | 058019 | 4 | CAP, truck frame pivot shaft (Also see item 33) |
| 4 | 073424 | 8 | CAPSCREW, 1"NF x 4" |
| | 910916 | 8 | LOCKWASHER, 1" |
| 5 | 076726 | 2 | WICK ASSEMBLY, pivot shaft lubricating (Consists of 1 pin and 1 WICK 050357)(Also serves as dowel pin for pivot shaft) |
| 6 | 050357 | 2 | WICK, pivot shaft lubricating |
| 7 | 623134 | 2 | GASKET, clutch compartment cover plate |
| 8 | 623135 | 2 | PLATE, cover, clutch compartment |
| | 908944 | 1 | PLUG, pipe, hex-socket, 1/2"NPT (left plate only) |
| 9 | 035073 | 26 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 26 | LOCKWASHER, 1/2" |
| 10 | 050748 | 2 | BREATHER, final drive |
| | 901765 | 2 | COUPLING, pipe, 3/8"NPT |
| | 901489 | 2 | NIPPLE, pipe, 3/8"NPT x 1" |
| 11 | 623262 | 1 | GASKET, bevel gear compartment top cover |
| 12 | 623261 | 1 | COVER, bevel gear compartment, top |
| 13 | 035073 | 12 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 14 | 052979 | 6 | PLUG, thread protecting (1-1/4"NF, socket-hd.) |
| 15 | 621486 | 2 | GASKET, final drive compartment cover |
| 16 | 049918 | 4 | WASHER, hole plugging capscrew (copper) |
| 17 | 035392 | 4 | CAPSCREW, hole plugging (5/8"NF x 1-1/4") |
| 18 | 631092 | 2 | COVER, final drive compartment (When making first replacement on tractors prior to #12297 also order 4 CAPSCREWS 070161) |
| 19 | 035018 | 32 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 32 | LOCKWASHER, 1/2" |
| 20 | 052976 | 1 | GASKET, gear compartment cover |
| 21 | 052977 | 1 | COVER, bevel gear compartment, rear |
| 22 | 035392 | 9 | CAPSCREW, 5/8"NC x 1-1/4" |
| | 904209 | 9 | LOCKWASHER, 5/8" |
| 23 | 621495 | 1 | GUARD, track sprocket, upper left — Standard |
| | 621496 | 1 | GUARD, track sprocket, upper right — Standard |
| | 634203 | 1 | GUARD, track sprocket, upper left — Special heavy-duty |
| | 634204 | 1 | GUARD, track sprocket, upper right — Special heavy-duty |
| 24 | 023618 | 8 | CAPSCREW, 5/8"NF x 2-1/2" (Used prior to tractor #12297) |
| | 070161 | 8 | CAPSCREW, 5/8"NF x 2-3/4" (Effective with tractor #12297) |
| 25 | 072366 | 8 | NUT, high, 5/8"NF |

(Continued)

## STEERING CLUTCH AND FINAL DRIVE HOUSING (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 26 | 035250 | 8 | PLUG, filling and drain |
| 27 | 035249 | 9 | GASKET, filling and drain plugs |
| 28 | 067543 | 1 | PLUG, drain, bevel gear compartment (magnetic) |
| 29 | 621493 | 1 | GUARD, track sprocket, lower left — Standard |
| | 621494 | 1 | GUARD, track sprocket, lower right — Standard |
| | 621563 | 1 | GUARD, track sprocket, lower left — Special heavy-duty |
| | 621564 | 1 | GUARD, track sprocket, lower right — Special heavy-duty |
| 30 | 023618 | 8 | CAPSCREW, 5/8"NF x 2-1/2" |
| 31 | 072366 | 8 | NUT, high, 5/8"NF |
| 32 | 623065 | 2 | TUBE ASSEMBLY, final drive breather (Includes nuts) |
| | 919173 | 2 | ELBOW, flare type, 1/4" tube, 1/8"NPT male |
| | 919171 | 2 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male |
| 33 | 096214 | 2 | CAP ASSEMBLY, truck frame pivot shaft, inner |
| | 096213 | 2 | CAP ASSEMBLY, truck frame pivot shaft, outer |

NOTE: Each Cap Assembly includes items 3 and 4; also upper block which requires welding to housing.




FINAL DRIVE INTERMEDIATE GEARS

* Original equipment. Tractors prior to serial No. 11856, excluding Nos. 11801 thru 11806, 11808 and 11809)
** Original equipment. Tractors serial No. 11856 and up, including Nos. 11801 thru 11806, 11808 and 11809)
*** Service only. For units on which the steering clutch and final drive housing has been replaced.

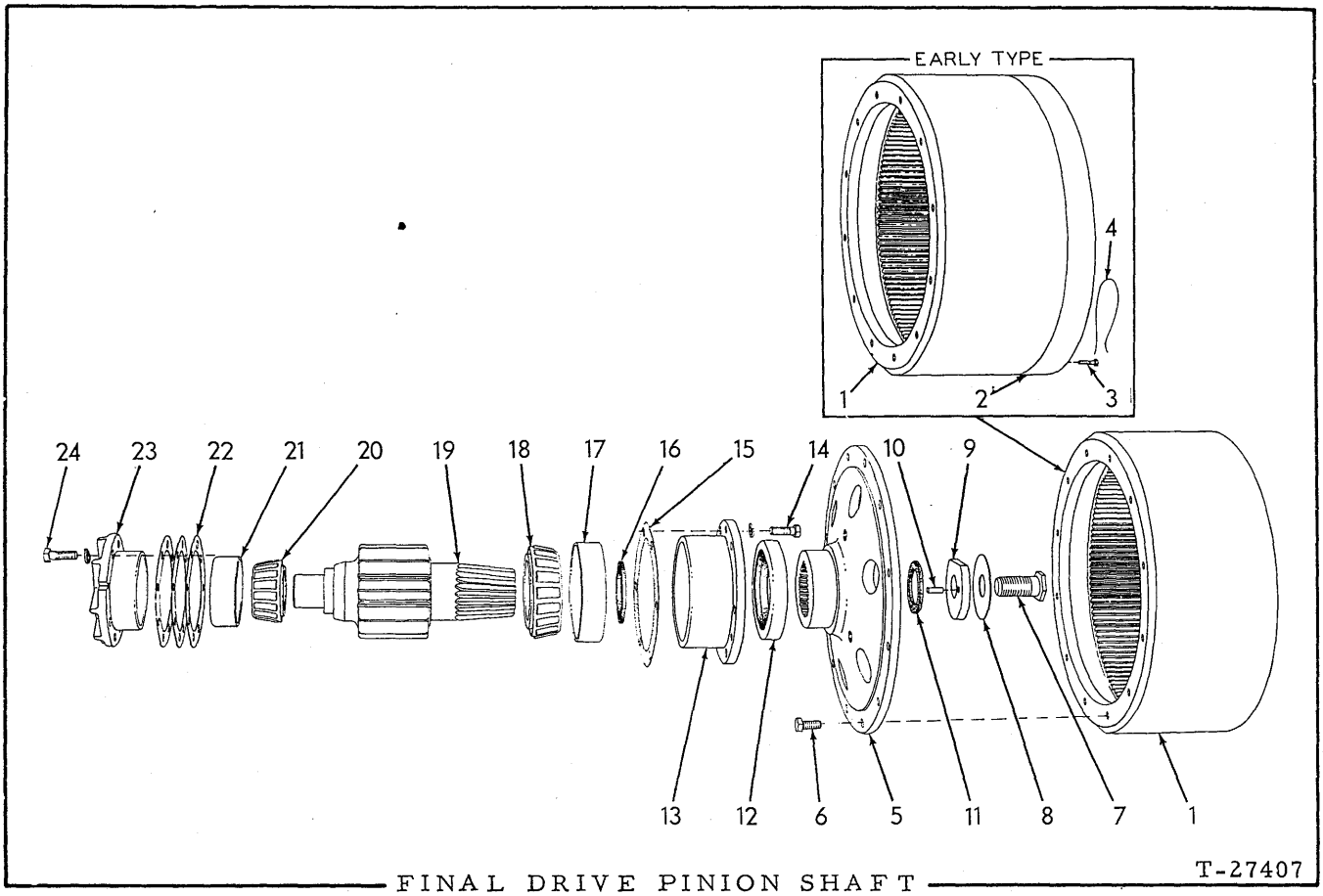
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION | |
|---|---|---|---|---|---|---|
| 1 | 051967 | 2 | 2 | 2 | GEAR (38 teeth) | |
| 2 | 052372 | 4 | 4 | 4 | LOCK, gear | |
| 3 | 036034 | 8 | 8 | 8 | CAPSCREW, 3/8"NF x 1" | |
| 4 | 052444 | 8 | 8 | 8 | LOCK, capscrew | |
| 5 | 622812 | 2 | 2 | 2 | PINION (16 teeth) | |
| 6 | 061456 | 2 | 2 | 2 | CONE ASSEMBLY, pinion inner bearing | |
| 7 | 605334 | 2 | 2 | 2 | CUP, pinion inner bearing | |
| 8 | 067355 | 2 | 2 | 2 | CAGE, pinion inner bearing cup | |
| 9 | 036034 | 8 | 8 | 8 | CAPSCREW, 3/8"NF x 1" | |
| 10 | 068999 | 8 | 8 | 8 | LOCK, capscrew | |
| 11 | 051989 | 2 | 2 | 2 | CONE ASSEMBLY, pinion outer bearing | |
| 12 | 051988 | 2 | 2 | 2 | CUP, pinion outer bearing | |
| 13 | 094120 | 4 | 4 | 4 | SHIM, bearing adjustment (.005" thick) | Use as required |
| | 094121 | 4 | 4 | 4 | SHIM, bearing adjustment (.007" thick) | |
| | 094122 | 14 | 14 | 14 | SHIM, bearing adjustment (.010" thick) | |

(Continued)

## FINAL DRIVE INTERMEDIATE GEARS (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 14 | 083678 | 2 | - | - | CAGE, pinion outer bearing (Used prior to tractor #9214) |
| | 094119 | 2 | - | - | CAGE, pinion outer bearing (Effective with tractor #9214) |
| | 621479 | - | 2 | - | CAGE, pinion outer bearing |
| | 901666 | - | 2 | - | PLUG, pipe, ctsk-hd., 1"NPT |
| 15 | 035018 | 12 | - | - | CAPSCREW, 1/2"NF x 1-1/2" (Used prior to tractor #9214) |
| | 035229 | 12 | - | - | CAPSCREW, 5/8"NF x 2"(Effective with tractor #9214) |
| | 023465 | - | 12 | - | CAPSCREW, 5/8"NF x 1-3/4" |
| | 904208 | 12 | - | - | LOCKWASHER, 1/2" (Used prior to tractor #9214) |
| | 904209 | 12 | 12 | - | LOCKWASHER, 5/8" (Effective with tractor #9214) |
| 16 | 650420 | - | - | 2 | CAGE, pinion outer bearing |
| 17 | 650419 | - | - | 2 | RETAINER, pinion outer bearing |
| | 901666 | - | - | 2 | PLUG, pipe, ctsk-hd., 1"NPT |
| 18 | 035248 | - | - | 12 | CAPSCREW, 5/8"NF x 2-1/4" |
| | 904209 | - | - | 12 | LOCKWASHER, 5/8" |
| 19 | 650418 | - | - | 4 | SHIM, bearing adjustment (.005" thick) } Use as required |
| | 650417 | - | - | 4 | SHIM, bearing adjustment (.007" thick) } Use as required |
| | 650416 | - | - | 14 | SHIM, bearing adjustment (.010" thick) } Use as required |

MEMO




FINAL DRIVE PINION SHAFT

* Tractors prior to serial No. 9091
** Tractors serial No. 9091 thru 11521, excluding exceptions listed below
△ Tractors serial No. 11522 thru 12000, excluding Nos. 11808 and 11809, but including exceptions listed below
△△ Tractor serial No. 12001 and up, including Nos. 11808 and 11809

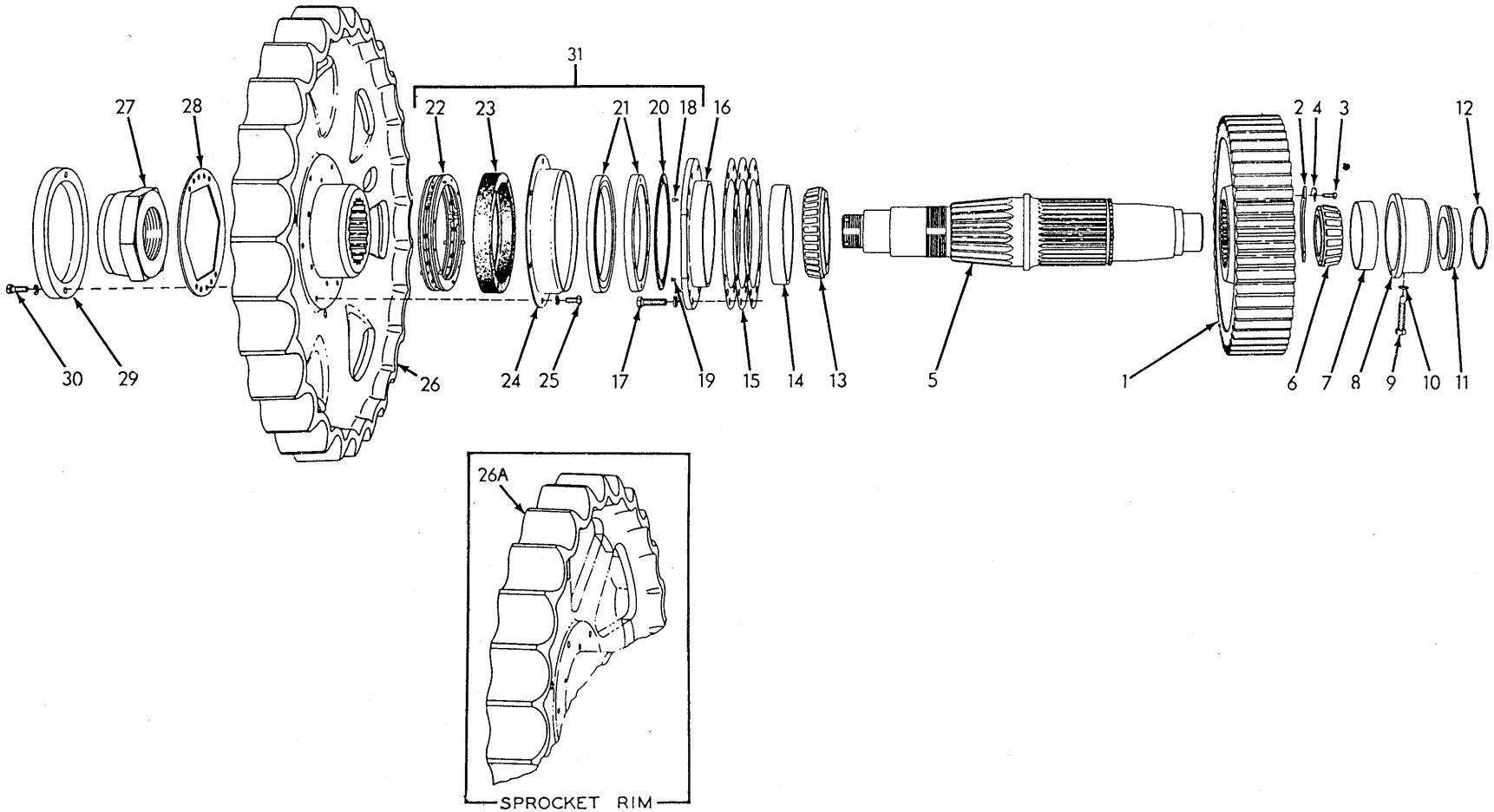
| ITEM | PART NO. | QUANTITY * | ** | △ | △△ | DESCRIPTION |
|---|---|---|---|---|---|---|
| 1 | 051951 | 2 | - | - | - | DRUM, brake |
| | 093953 | - | 2 | - | 2 | DRUM, brake |
| | 099180 | - | - | 2 | - | DRUM ASSEMBLY, brake (Includes items 2 and 3) |
| 2 | ------ | - | - | 2 | - | RING, extension, brake drum (Not serviced separately) |
| 3 | 099963 | - | - | 24 | - | CAPSCREW, drilled-hd., 3/8"NC x 2" |
| 4 | 023633 | - | - | 12 | - | WIRE, locking, 1/16" x 12" |
| 5 | 052050 | 2 | - | - | - | HUB, brake drum |
| | 093952 | - | 2 | 2 | - | HUB, brake drum |
| | 623344 | - | - | - | 2 | HUB, brake drum |

(Continued)

## FINAL DRIVE PINION SHAFT (Continued)

| ITEM | PART NO. | QUANTITY * | ** | Δ | ΔΔ | DESCRIPTION |
|---|---|---|---|---|---|---|
| 6 | 090767 | 24 | - | - | - | CAPSCREW, brake drum (drilled-hd., 1/2"NC x 1-3/16") |
| | 023619 | - | 24 | 24 | - | CAPSCREW, brake drum (drilled-hd., 5/8"NC x 1-1/2") |
| | 023633 | 12 | 12 | 12 | - | WIRE, locking, 1/16" x 12" |
| | 650811 | - | - | - | 24 | BOLT, brake drum (5/8"NC x 1-1/2") |
| 7 | 071085 | 2 | 2 | 2 | 2 | CAPSCREW, hub retaining |
| 8 | 623347 | 2 | 2 | 2 | 2 | WASHER, locking, hub retaining capscrew |
| 9 | ------ | 2 | 2 | 2 | - | WASHER ASSEMBLY, hub retaining (Includes item 10) (Order WASHER ASSEMBLY 623345 and WASHER 623347) |
| | 623345 | - | - | - | 2 | WASHER ASSEMBLY, hub retaining (Includes item 10) |
| 10 | 052066 | 2 | 2 | 2 | 2 | PIN, hub retaining washer |
| 11 | 623346 | - | - | - | 2 | SEAL, oil, pinion shaft (neoprene) |
| 12 | 052115 | 2 | 2 | 2 | - | SEAL, oil, brake drum hub |
| | 623350 | - | - | - | 2 | SEAL, oil, brake drum hub |
| 13 | 067352 | 2 | 2 | 2 | - | CAGE, inner bearing cup |
| | 623349 | - | - | - | 2 | CAGE, inner bearing cup |
| 14 | 035018 | 12 | 12 | 12 | 12 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 12 | 12 | 12 | 12 | LOCKWASHER, 1/2" |
| 15 | 052420 | 2 | 2 | 2 | 2 | GASKET, bearing cage |
| 16 | 052086 | 2 | 2 | 2 | - | SEAL, oil, pinion shaft (neoprene) |
| 17 | 042877 | 2 | 2 | 2 | 2 | CUP, inner bearing |
| 18 | 051997 | 2 | 2 | 2 | 2 | CONE ASSEMBLY, inner bearing |
| 19 | 051977 | 2 | - | - | - | PINION (14 teeth, wide splines) |
| | 093949 | - | 2 | 2 | 2 | PINION (14 teeth, narrow splines) |
| 20 | 082304 | 2 | 2 | 2 | 2 | CONE ASSEMBLY, outer bearing |
| 21 | 082305 | 2 | 2 | 2 | 2 | CUP, outer bearing |
| 22 | 084048 | 4 | 4 | 4 | 4 | SHIM, bearing adjustment (.005" thick) } Use as required |
| | 084049 | 4 | 4 | 4 | 4 | SHIM, bearing adjustment (.007" thick) } Use as required |
| | 084050 | 20 | 20 | 20 | 20 | SHIM, bearing adjustment (.010" thick) } Use as required |
| 23 | 082319 | 2 | 2 | 2 | 2 | CAGE, outer bearing cup |
| 24 | 035018 | 8 | 8 | 8 | 8 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 8 | 8 | 8 | 8 | LOCKWASHER, 1/2" |

Tractor exceptions: Serial Nos. 9446, 9447, 9448, 9449, 11426, 11481, 11491, 11495, 11497, 11498, 11499, 11500, 11503, 11504, 11506, 11507, 11510, 11511, 11513, 11514, 11515, 11517, 11518, 11520.

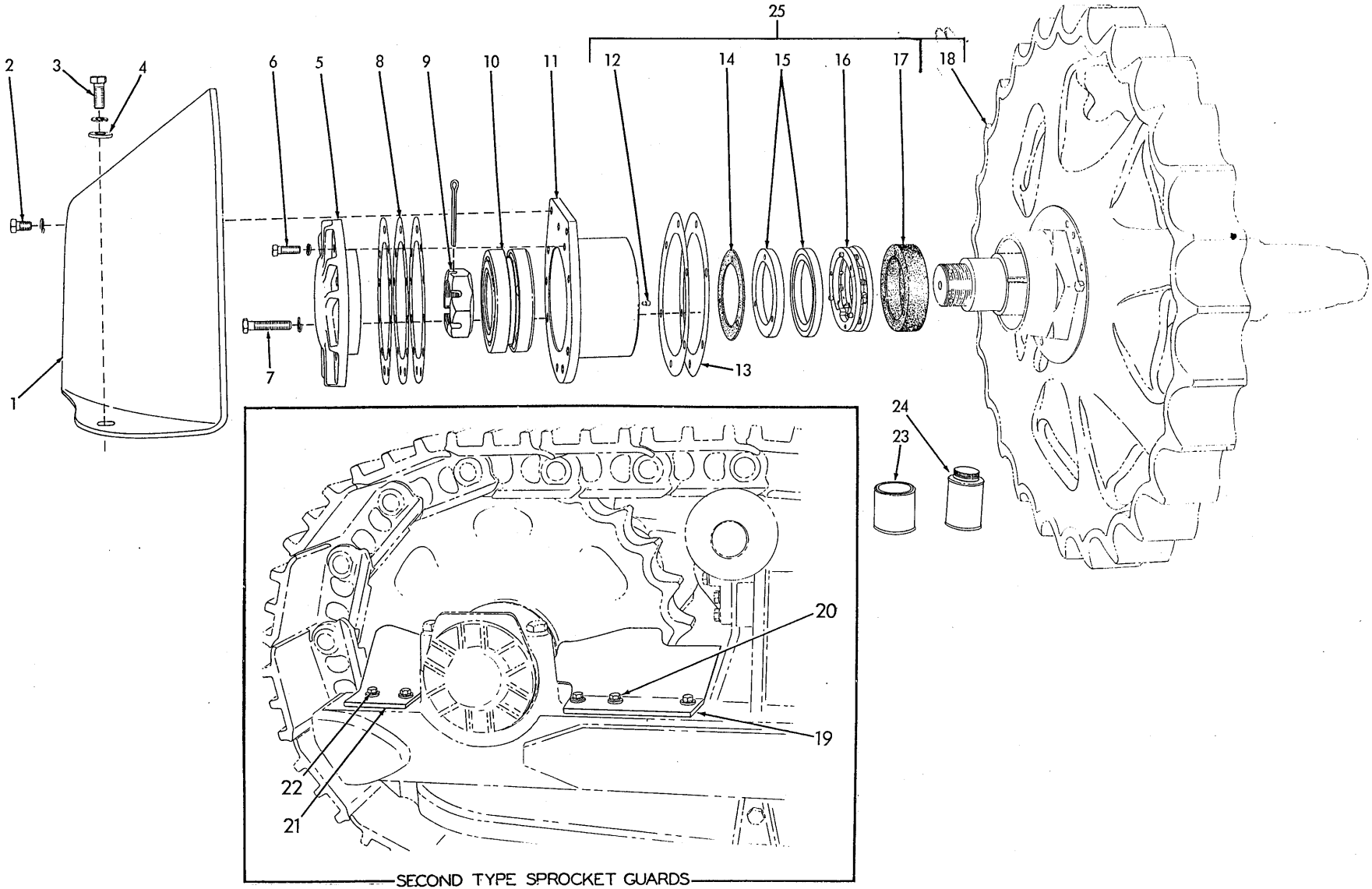



T-17409

FINAL DRIVE SPROCKET, SHAFT AND GEAR

## FINAL DRIVE SPROCKET, SHAFT AND GEAR

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 622811 | 2 | GEAR, driving (51 teeth) |
| 2 | 052161 | 4 | LOCK, gear retaining |
| 3 | 036034 | 8 | CAPSCREW, 3/8"NF x 1" |
| 4 | 052444 | 8 | LOCK, capscrew |
| 5 | 099962 | 2 * | SHAFT, sprocket |
| 6 | 051997 | 2 | CONE ASSEMBLY, inner bearing |
| 7 | 042877 | 2 | CUP, inner bearing |
| 8 | 067350 | 2 | CAGE, inner bearing cup |
| 9 | 067348 | 2 | SETSCREW, hex-hd., dog-pt., 5/8"NF x 3" |
| 10 | 049918 | 2 | WASHER, plain (copper) |
| 11 | 067349 | 2 | COVER, inner bearing (Used prior to tractor #8741) |
| | 091573 | 2 | COVER, inner bearing (Effective with tractor #8741) |
| 12 | 053495 | 2 | SEAL, inner bearing cover (4-1/4"I. D.)(Used prior to tractor #8741) |
| | 923824 | 2 | O-RING, inner bearing cover (5-1/4"I. D.)(Effective with tractor #8741) |
| 13 | 082307 | 2 | CONE ASSEMBLY, intermediate bearing |
| 14 | 082308 | 2 | CUP, intermediate bearing |
| 15 | 067518 | 4 | SHIM, bearing adjustment (.005" thick) — Use as required |
| | 067519 | 4 | SHIM, bearing adjustment (.007" thick) — Use as required |
| | 067520 | 20 | SHIM, bearing adjustment (.010" thick) — Use as required |
| 16 | 082310 | 2 | CAGE ASSEMBLY, intermediate bearing (Includes items 18 and 19) |
| 17 | 035229 | 16 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 16 | LOCKWASHER, 5/8" |
| 18 | 084432 | 6 | PIN, locating, seal ring (9/16" long) — See item 31 |
| 19 | 080547 | 6 | PIN, locating, seal ring gasket (13/32" long) — See item 31 |
| 20 | 082320 | 2 | GASKET, seal ring — See item 31 |
| 21 | 082322 | 4 | RING, inner seal — See item 31 |
| 22 | 082326 | 2 | FOLLOWER ASSEMBLY, inner seal (Serviced only as a unit) — See item 31 |
| 23 | 082323 | 2 | BOOT, inner seal — See item 31 |
| 24 | 082321 | 2 | GUARD, seal |
| 25 | 035221 | 12 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 26 | 624550 | 2 | SPROCKET, track driving (Standard, Disc type. Has flat tooth-base) |
| | 622171 | 2 | SPROCKET, track driving (Special. Disc type. Has skelton tooth-base to minimize packing of track) |
| 26A | 629272 | 2 | SPROCKET RIM (Flat tooth-base. Spoke-type. Requires welding to install) |
| 27 | 082318 | 2 | NUT, sprocket retaining |
| 28 | 082315 | 2 | LOCK, sprocket retaining nut |
| 29 | 630056 | 2 | RING, nut protecting (Effective with approx. tractor #12102) |
| 30 | 035221 | 4 | CAPSCREW, 1/2"NC x 1" (Used prior to approx. tractor #12102) |
| | 035190 | 4 | CAPSCREW, 1/2"NC x 1-1/2" (Effective with approx. tractor #12102) |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 31 | 091978 | 2 | SEAL KIT, final drive (Includes parts for one (1) side only; items 18 thru 23) |



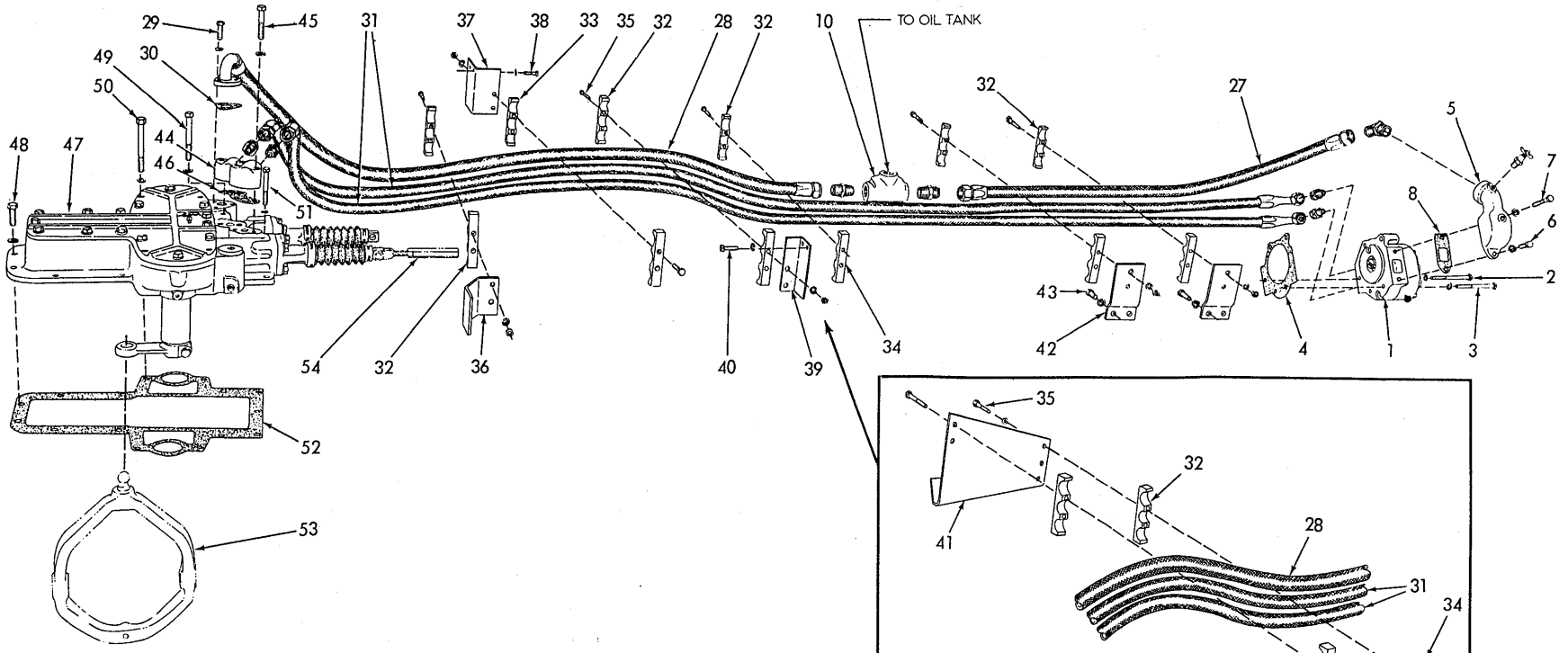

T-18073

FINAL DRIVE OUTBOARD BEARING AND SEAL

# FINAL DRIVE OUTBOARD BEARING AND SEAL

* Model HD21A,F tractors prior to serial No. 12049; also Model HD21G tractors prior to serial No. 11725 including No. 11798
** Model HD21A,F tractors serial No. 12049 and up; also Model HD21G tractors serial No. 11725 and up, excluding No. 11798

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 082328 | 2 | - | GUARD, sprocket |
| 2 | 035159 | 4 | - | CAPSCREW, 5/8"NC x 1" |
| | 904209 | 4 | - | LOCKWASHER, 5/8" |
| 3 | 071113 | 4 | - | CAPSCREW, 5/8"NC x 2" |
| | 904209 | 4 | - | LOCKWASHER, 5/8" |
| 4 | 602448 | 4 | - | WASHER, plain |
| 5 | 082316 | 2 | 2 | CAP, outboard bearing |
| 6 | 614478 | 6 | 6 | CAPSCREW, 1/2"NF x 1-3/8" |
| | 904208 | 6 | 6 | LOCKWASHER, 1/2"' |
| 7 | 013467 | 12 | 12 | CAPSCREW, 5/8"NF x 3" |
| | 904209 | 12 | 12 | LOCKWASHER, 5/8" |
| 8 | 082358 | 4 | 4 | SHIM, butboard bearing cap (.005" thick. Use as required) |
| | 082357 | 4 | 4 | SHIM, outboard bearing cap (.007" thick. Use as required) |
| | 082356 | 8 | 8 | SHIM, outboard bearing cap (.010" thick. Use as required) |
| 9 | 082311 | 2 | 2 | NUT, retaining, outboard bearing |
| | 904016 | 2 | 2 | PIN, cotter, 3/8" x 4" |
| 10 | 082306 | 2 | 2 | BEARING, roller, outboard (Each consists of 1 roller assembly and 2 cups. Serviced only as a unit) |
| 11 | 082327 | 2 | 2 | CAGE, outboard bearing |
| 12 | 084432 | 6 | 6 | PIN, locating, seal ring (See item 25) |
| 13 | 069761 | 12 | 12 | SHIM, outboard bearing cage (.015" thick. Use as rquired) |
| 14 | 082309 | 2 | 2 | GASKET, seal ring (See item 25) |
| 15 | 082303 | 4 | 4 | RING, seal (See item 25) |
| 16 | 082317 | 2 | 2 | FOLLOWER ASSEMBLY, seal (Serviced only as a unit) (See item 25) |
| 17 | 082312 | 2 | 2 | BOOT, seal (See item 25) |
| 18 | ------ | - | - | SPROCKET (See SPROCKET, SHAFT AND GEAR) |
| 19 | 622411 | - | 1 | PLATE, front closure, left side |
| | 622412 | - | 1 | PLATE, front closure, right side |
| 20 | 023755 | - | 6 | CAPSCREW, 5/8"NC x 2-1/4" |
| | 904209 | - | 6 | LOCKWASHER, 5/8" |
| | 602448 | - | 6 | WASHER, plain |
| 21 | 622413 | - | 1 | PLATE, rear closure, left side |
| | 622414 | - | 1 | PLATE, rear closure, right side |
| 22 | 023755 | - | 4 | CAPSCREW, 5/8"NC x 2-1/4" |
| | 904209 | - | 4 | LOCKWASHER, 5/8" |
| | 602448 | - | 4 | WASHER, plain |
| 23 | 033288 | - | - | CEMENT, neoprene, 1/2 pt. can } For cementing boots and gaskets |
| 24 | 054890 | - | - | SOLVENT, neoprene cement, 1/2 pt. can } For cementing boots and gaskets |
| 25 | 091979 | 2 | 2 | SEAL KIT, final drive (Includes parts for one (1) side only; items 12 and 14 thru 17) (Not illustrated) |




HYDRAULIC STEERING CONTROL (First type)

T-15204

# HYDRAULIC STEERING CONTROL

USAGE: Tractors prior to serial No. 11001

* Used prior to tractor serial No. 8060
** Effective with tractor serial No. 8060

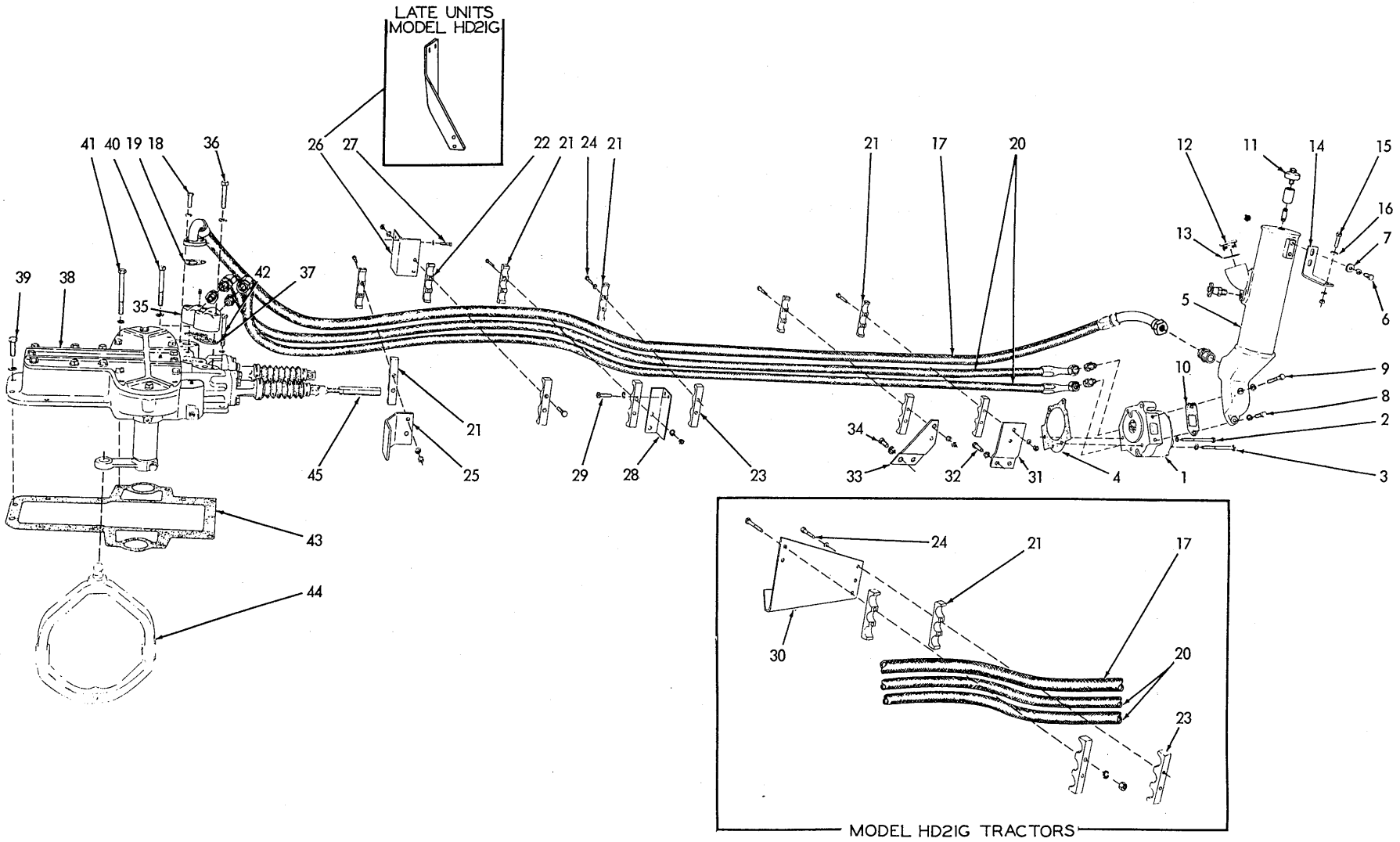
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 082781 | 1 | 1 | PUMP ASSEMBLY, hydraulic (See page 346 for parts)(Original equipment. Order PUMP ASSEMBLY 099915 and 2 CAPSCREWS 622781) |
| | 099915 | 1 | 1 | PUMP ASSEMBLY, hydraulic (See page 347 for parts)(Service replacement) |
| 2 | 082937 | 3 | 3 | CAPSCREW, 3/8"NC x 4-1/2" |
| | 904206 | 3 | 3 | LOCKWASHER, 3/8" |
| 3 | 082936 | 2 | 2 | CAPSCREW, 7/16"NC x 4-1/2" (For PUMP ASSEMBLY 082781) |
| | 622781 | 2 | 2 | CAPSCREW, 7/16"NC x 4-7/8" (For PUMP ASSEMBLY 099915) |
| | 904207 | 2 | 2 | LOCKWASHER, 7/16" |
| 4 | 082810 | 1 | 1 | GASKET, hydraulic pump |
| 5 | 082812 | 1 | 1 | ELBOW, front oil return line |
| | 914453 | 1 | 1 | COCK, vent, 1/8"NPT (Not original equipment on tractors prior to #9014) |
| 6 | 041250 | 1 | 1 | CAPSCREW, 7/16"NC x 1-1/4" |
| 7 | 082905 | 1 | 1 | CAPSCREW, 7/16"NC x 3-1/4" |
| | 904207 | 2 | 2 | LOCKWASHER, 7/16" |
| 8 | 082811 | 1 | 1 | GASKET, elbow |
| 9 | 082913 | 1 | - | TUBE ASSEMBLY, oil return, front section (Includes 2 nuts, 2 ferrules and 2 RINGS 917692) |
| | 917692 | 2 | - | RING, Sealastic, 1" tube (No ferrule included) |
| | 915534 | 2 | - | CONNECTOR, Selastic, 1" tube, 1"NPT male |
| 10 | 082891 | 1 | 1 | TEE, oil return line |
| 11 | 082127 | 1 | - | TUBE ASSEMBLY, oil return, rear section (Includes 1 RING 917692, 1 NUT 918566 and 1 ferrule) |
| | 917692 | 1 | - | RING, Sealastic, 1" tube (No ferrule included) |
| | 915535 | 1 | - | RING, Sealastic, 1" tube (Includes ferrule) |
| | 918566 | 2 | - | NUT, Sealastic, 1" tube |
| | 915534 | 1 | - | CONNECTOR, Sealastic, 1" tube, 1"NPT male |
| 12 | 066814 | 1 | - | ELBOW, rear oil return tube |
| 13 | 047558 | 2 | - | CAPSCREW, 7/16"NC x 2-1/4" |
| 14 | 040011 | 1 | - | CAPSCREW, 7/16"NC x 1-1/2" |
| | 904207 | 3 | - | LOCKWASHER, 7/16" |
| 15 | 066554 | 4 | - | CONNECTOR, oil supply tubes (1/2"NPT and 1-3/16"EF male ends) |
| 16 | 082128 | 1 | - | TUBE ASSEMBLY, oil supply, left clutch control, rear section (Includes 1 RING 917691, 1 NUT 918234 and 1 ferrule) |
| | 917691 | 1 | - | RING, Sealastic, 3/4" tube (No ferrule included) |
| | 915558 | 1 | - | RING, Sealastic, 3/4" tube (Includes ferrule) |
| | 918234 | 2 | - | NUT, Sealastic, 3/4" tube |
| | 915560 | 1 | - | UNION, Sealastic, 3/4" tube |
| 17 | 082799 | 1 | - | TUBE ASSEMBLY, oil supply, left clutch control, front section (Includes 2 nuts, 2 ferrules and 2 RINGS 917691) |
| | 917691 | 2 | - | RING, Sealastic, 3/4" tube (No ferrule included) |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 18 | 085956 | 1 | - | TUBE ASSEMBLY, oil supply, right clutch control, rear section (Includes 1 RING 917691, 1 NUT 918234 and 1 ferrule) |
| | 917691 | 1 | - | RING, Sealastic, 3/4" tube (No ferrule included) |
| | 915558 | 1 | - | RING, Sealastic, 3/4" tube (Includes ferrule) |
| | 918234 | 2 | - | NUT, Sealastic, 3/4" tube |
| | 915560 | 1 | - | UNION, Sealastic, 3/4" tube |
| 19 | 082798 | 1 | - | TUBE ASSEMBLY, oil supply, right clutch control, front section (Includes 2 nuts, 2 ferrules and 2 RINGS 917691) |
| | 917691 | 2 | - | RING, Sealastic, 3/4" tube (No ferrule included) |
| 20 | 056407 | 5 | - | CLAMP, tube supporting (half only. Plain holes) |
| | 913611 | 4 | - | CAPSCREW, 3/8"NF x 2-1/2" |
| | 904206 | 4 | - | LOCKWASHER, 3/8" |
| | 911041 | 4 | - | NUT, 3/8"NF |
| 21 | 080976 | 1 | - | CLAMP, tube supporting (half only. Threaded holes) |
| 22 | 035336 | 2 | - | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| 23 | 080864 | 1 | - | PLATE, tube supporting clamp |
| 24 | 035061 | 2 | - | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 2 | - | LOCKWASHER, 1/2" |
| 25 | 059550 | 1 | - | BRACKET, tube supporting clamp |
| 26 | 035190 | 2 | - | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 2 | - | LOCKWASHER, 1/2" |
| 27 | 089690 | - | 1 | HOSE ASSEMBLY, oil return, front section (See page 6 for parts) |
| | 920693 | - | 1 | ELBOW, flare type, 45°, 1" tube, 1"NPT male |
| | 919064 | - | 1 | CONNECTOR, flare type, 1" tube, 1"NPT male |
| 28 | 089691 | - | 1 | HOSE ASSEMBLY, oil return, rear section (See page 6 for parts) |
| | 919064 | - | 1 | CONNECTOR, flare type, 1" tube, 1"NPT male |
| 29 | 041250 | - | 3 | CAPSCREW, 7/16"NC x 1-1/4" |
| | 904207 | - | 3 | LOCKWASHER, 7/16" |
| 30 | 056474 | 1 | 1 | GASKET, rear oil return line connection |
| 31 | 646338 | - | 2 | HOSE, oil supply (See page 6) |
| | 919615 | - | 4 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| 32 | 089583 | - | 10 | CLAMP, hose supporting (half only. plain holes) |
| | 914339 | - | 10 | CAPSCREW, 3/8"NF x 2-3/4" |
| | 904206 | - | 10 | LOCKWASHER, 3/8" |
| | 911041 | - | 10 | NUT, 3/8"NF |
| 33 | 089920 | - | 1 | CLAMP, hose supporting (half only. beveled end) |
| 34 | 089729 | - | 1 | CLAMP, hose supporting (half only. threaded holes) |
| 35 | 035336 | - | 2 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| 36 | 089687 | - | 1 | BRACKET, hose supporting clamp |
| 37 | 089925 | - | 1 | ANGLE, hose supporting clamp |
| 38 | 012992 | - | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 39 | 089650 | - | 1 | ANGLE, hose clamp (Not for Model HD21G tractors) |
| 40 | 012992 | - | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| 41 | 089865 | - | 1 | ANGLE, hose clamp (For Model HD21G tractors only) |
| 42 | 089685 | - | 2 | PLATE, hose supporting clamp |
| 43 | 035061 | - | 4 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | - | 4 | LOCKWASHER, 1/2" |
| 44 | 056281 | 1 | 1 | CAP, oil supply line connection |
| 45 | 028979 | 4 | 4 | CAPSCREW, 1/2"NC x 2-1/2" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 46 | 056304 | 1 | 1 | GASKET, supply line connection cap |
| 47 | 052951 | 1 | 1 | VALVE ASSEMBLY, steering clutch throwout (See page 351 for parts) |
| 48 | 035018 | 9 | 9 | CAPSCREW, 1/2"NF x 1-1/2" |
| 49 | 043576 | 2 | 2 | CAPSCREW, 1/2"NF x 3-3/4" |
| 50 | 031671 | 4 | 4 | CAPSCREW, 1/2"NF x 4-1/2" |
| 51 | 042430 | 1 | 1 | CAPSCREW, 1/2"NF x 3-1/4" |
| | 904208 | 16 | 16 | LOCKWASHER, 1/2" |
| 52 | 052470 | 1 | 1 | GASKET, steering clutch throwout valve |
| 53 | ------ | - | - | YOKE (See STEERING CLUTCHES) |
| 54 | ------ | - | - | ROD (See STEERING LEVERS AND LINKAGE) |




HYDRAULIC STEERING CONTROL (Second type)

T-19644

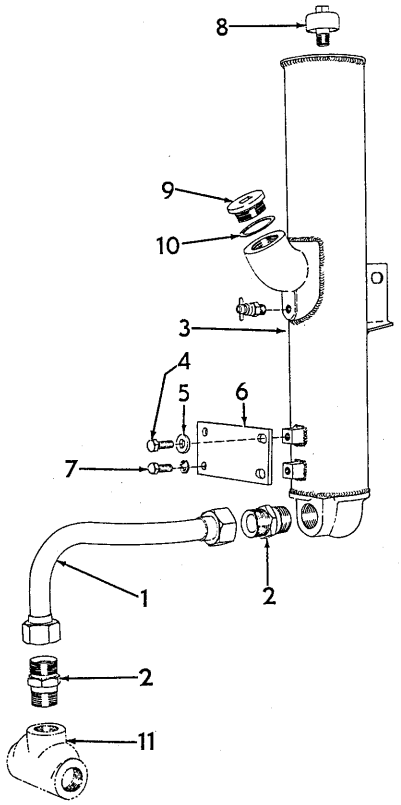
# HYDRAULIC STEERING CONTROL

USAGE: Tractors serial No. 11001 thru No. 12000, excluding Nos. 11808 and 11809

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082781 | 1 | PUMP ASSEMBLY, hydraulic (See page 346 for parts) (Used prior to tractor #11931, excluding 11725, 11807, 11817, 11830, 11905 and 11908)(Order PUMP ASSEMBLY 099915 and 2 CAPSCREWS 622781) |
| | 099915 | 1 | PUMP ASSEMBLY, hydraulic (See page 347 for parts) (Effective with tractor #11931, including 11725, 11807, 11817, 11830, 11905 and 11908) |
| 2 | 082937 | 3 | CAPSCREW, 3/8"NC x 4-1/2" |
| | 904206 | 3 | LOCKWASHER, 3/8" |
| 3 | 082936 | 2 | CAPSCREW, 7/16"NC x 4-1/2" (Used prior to tractor #11931, excluding 11725, 11807, 11817, 11830, 11905 and 11908) |
| | 622781 | 2 | CAPSCREW, 7/16"NC x 4-7/8" (Effective with tractor #11931, including 11725, 11807, 11817, 11830, 11905 and 11908) |
| | 904207 | 2 | LOCKWASHER, 7/16" |
| 4 | 082810 | 1 | GASKET, hydraulic pump |
| 5 | 096946 | 1 | TANK, oil |
| | 912319 | 1 | COCK, drain, 1/4"NPT |
| 6 | 036034 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 7 | 044973 | 2 | WASHER, plain |
| 8 | 041250 | 1 | CAPSCREW, 7/16"NC x 1-1/4" |
| 9 | 082905 | 1 | CAPSCREW, 7/16"NC x 3-1/4" |
| | 904207 | 2 | LOCKWASHER, 7/16" |
| 10 | 082811 | 1 | GASKET, oil tank |
| 11 | 050748 | 1 | BREATHER, oil tank |
| | 901765 | 1 | COUPLING pipe, 3/8"NPT |
| | 901490 | 1 | NIPPLE, pipe, 3/8"NPT x 1-1/2" |
| 12 | 035250 | 1 | PLUG, oil tank |
| 13 | 035249 | 1 | GASKET, oil tank plug |
| 14 | 096945 | 1 | ANGLE, tank bracing (Not for Model HD21G) |
| | 097059 | 1 | ANGLE, tank bracing (Model HD21G only) |
| 15 | 036039 | 2 | CAPSCREW, 3/8"NF x 1-3/8" |
| 16 | 044973 | 2 | WASHER, plain |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 17 | 096943 | 1 | HOSE ASSEMBLY, oil return (See page 6 for parts) |
| | 919064 | 1 | CONNECTOR, flare type, 1"tube, 1"NPT male |
| 18 | 041250 | 3 | CAPSCREW, 7/16"NC x 1-1/4" |
| | 904207 | 3 | LOCKWASHER, 7/16" |
| 19 | 056474 | 2 | GASKET, oil return hose connection |

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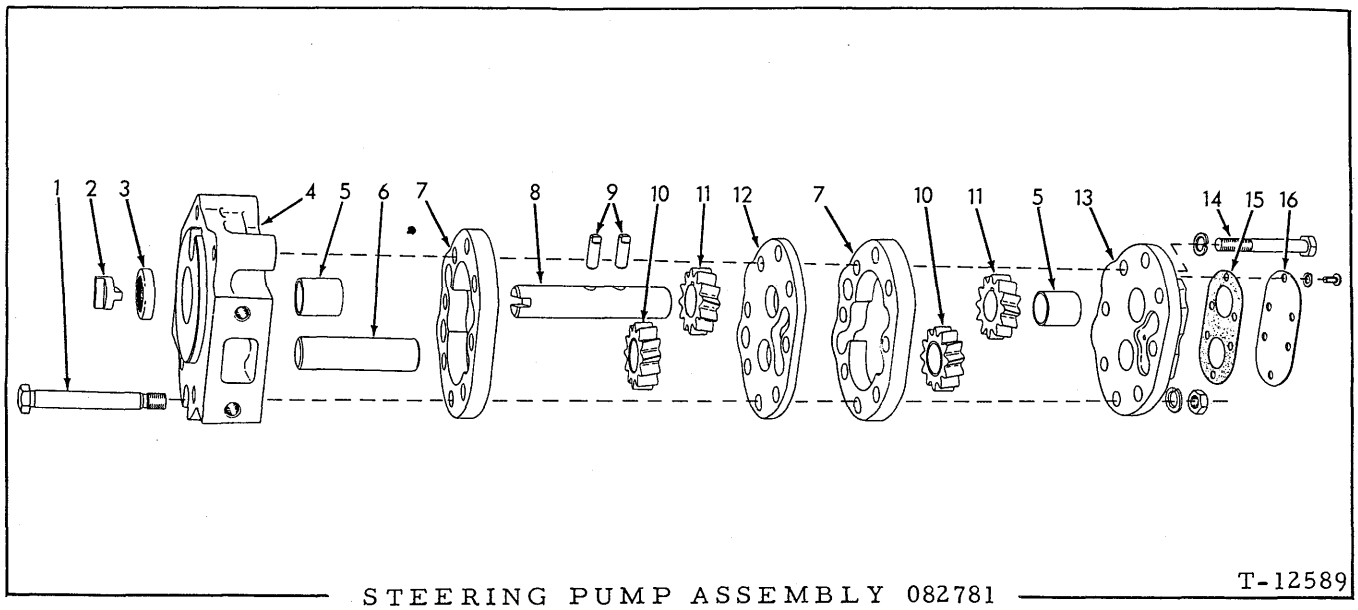
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 20 | 646338 | 2 | HOSE, oil supply (See page 6) |
| | 919615 | 4 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| 21 | 089583 | 10 | CLAMP, hose supporting (Half only. Plain holes) |
| | 914339 | 10 | CAPSCREW, 3/8"NF x 2-3/4" |
| | 904206 | 10 | LOCKWASHER, 3/8" |
| | 911041 | 10 | NUT, 3/8"NF |
| 22 | 089920 | 1 | CLAMP, hose supporting (Half only. Beveled end) |
| 23 | 089729 | 1 | CLAMP, hose supporting (Half only. Threaded holes) |
| 24 | 035336 | 2 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 25 | 089687 | 1 | BRACKET, hose supporting clamp |
| 26 | 089925 | 1 | ANGLE, hose supporting clamp (Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 622531 | 1 | ANGLE, hose supporting clamp (Effective with Model HD21G tractor #11725, excluding #11798) |
| 27 | 012992 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 28 | 089650 | 1 | ANGLE, hose clamp (Not for Model HD21G) |
| 29 | 012992 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 30 | 089865 | 1 | ANGLE, hose clamp (Model HD21G only) |
| 31 | 089685 | 1 | PLATE, hose supporting clamp, front |
| 32 | 035061 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 33 | 094301 | 1 | PLATE, hose supporting clamp, rear |
| 34 | 035061 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 35 | 056281 | 1 | CAP, hose connection (If for tractors prior to #11761, also order 2 PLUG 901651) |
| | 901651 | 2 | PLUG, pipe, sq-hd., 1/8"NPT (Effective with tractor #11761) |
| 36 | 028979 | 4 | CAPSCREW, 1/2"NC x 2-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 37 | 056304 | 1 | GASKET, hose connection cap |
| 38 | 052951 | 1 | VALVE ASSEMBLY, steering clutch throwout (See page 351 for parts) |
| 39 | 035018 | 9 | CAPSCREW, 1/2"NF x 1-1/2" |
| 40 | 043576 | 2 | CAPSCREW, 1/2"NF x 3-3/4" |
| 41 | 031671 | 4 | CAPSCREW, 1/2"NF x 4-1/2" |
| 42 | 042430 | 1 | CAPSCREW, 1/2"NF x 3-1/4" |
| | 904208 | 16 | LOCKWASHER, 1/2" |
| 43 | 052470 | 1 | GASKET, steering clutch throwout valve |
| 44 | ------ | - | YOKE (See STEERING CLUTCHES) |
| 45 | ------ | - | ROD (See STEERING LEVERS AND LINKAGE) |




STEERING CONTROL OIL TANK T-15199

USAGE: Tractors prior to serial No. 11001

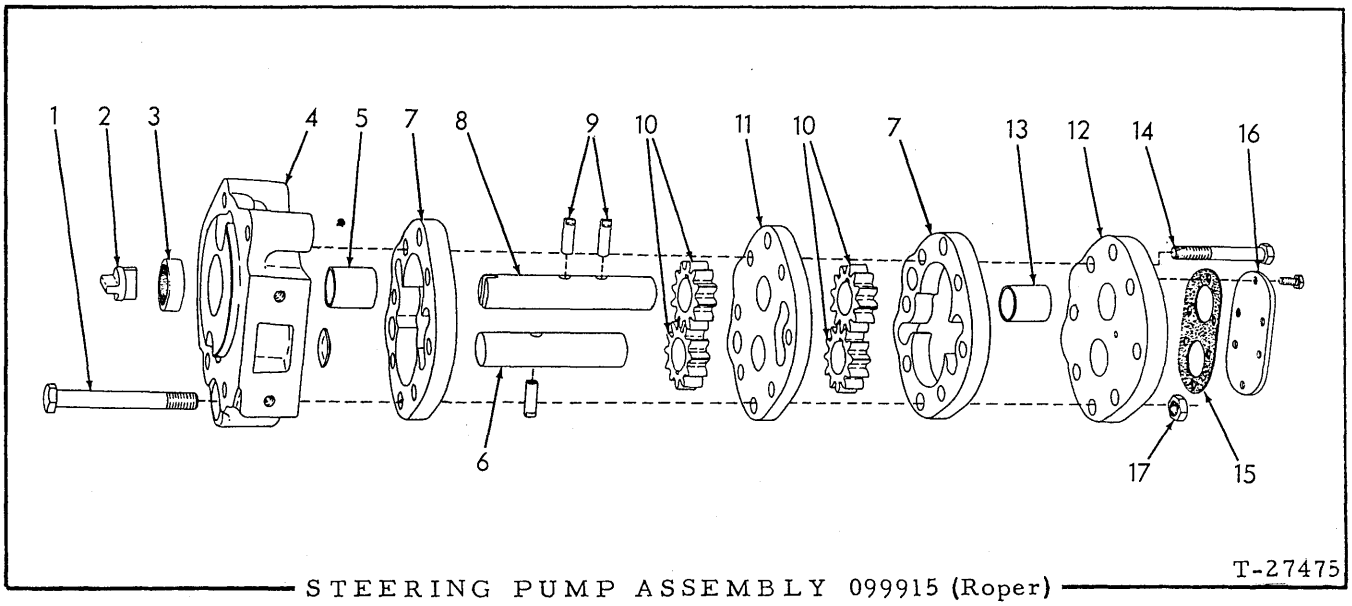
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 082903 | 1 | TUBE, oil tank (Used prior to tractor #8060) |
| | 918566 | 2 | NUT, Sealastic, 1" tube |
| | 915535 | 2 | RING, Sealastic, 1" tube (Includes ferrule) |
| | 089686 | 1 | TUBE ASSEMBLY, oil tank (Includes nuts)(Effective with tractor #8060) |
| 2 | 915534 | 2 | CONNECTOR, Sealastic, 1" tube, 1"NPT male (Used prior to tractor #8060) |
| | 051697 | 2 | CONNECTOR, oil tube (Effective with tractor #8060) |
| 3 | 087091 | 1 | TANK, oil |
| | 912319 | 1 | COCK, drain, 1/4"NPT |
| 4 | 012992 | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 5 | 044973 | 2 | WASHER, plain (3/16" thick) |
| 6 | 082846 | 1 | PLATE, bracing, oil tank |
| 7 | 036034 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 8 | 050748 | 1 | BREATHER, oil tank |
| 9 | 035250 | 1 | PLUG, oil tank |
| 10 | 035249 | 1 | GASKET, oil tank plug |
| 11 | ------ | 1 | TEE (See first type HYDRAULIC STEERING CONTROL) |




STEERING PUMP ASSEMBLY 082781

USAGE: See pages 339 and 343

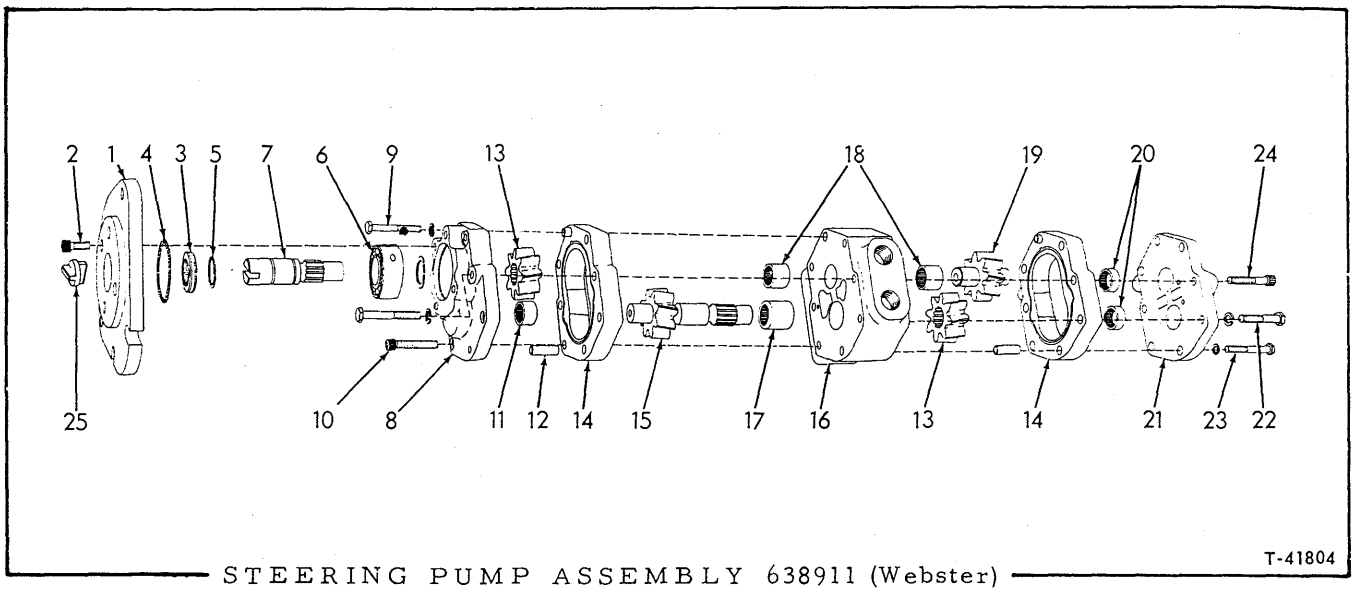
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 083981 | 2 | BOLT, dowel |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911035 | 2 | NUT, jam, 1/2"NC |
| 2 | 645109 | 1 | COUPLING, driving shaft |
| 3 | 090655 | 1 | SEAL, oil, driving shaft |
| 4 | 083983 | 1 | PLATE ASSEMBLY, back (Includes items 5 and 6) |
| 5 | 059776 | 2 | BEARING, driving gear shaft |
| 6 | 059773 | 1 | SHAFT, idling gears |
| 7 | 059772 | 2 | CASE |
| 8 | 083979 | 1 | SHAFT, driving |
| 9 | 059782 | 2 | PIN, driving gear |
| 10 | 059775 | 2 | GEAR ASSEMBLY, idling (Includes bushing which is not serviced separately) |
| 11 | 059779 | 2 | GEAR, driving |
| 12 | 059771 | 1 | PLATE, spacing |
| 13 | 083982 | 1 | PLATE ASSEMBLY, front (Includes item 5) |
| 14 | 088736 | 4 | CAPSCREW (7/16"NC x 3") |
| | 904207 | 4 | LOCKWASHER, 7/16" |
| 15 | 059778 | 1 | GASKET, cover plate |
| 16 | 059777 | 1 | PLATE, cover |
| | 900575 | 6 | SCREW, machine, 1/4"NC x 5/8" |
| | 904204 | 6 | LOCKWASHER, 1/4" |




STEERING PUMP ASSEMBLY 099915 (Roper)

USAGE: See pages 339, 343, 356 and 360

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 622789 | 2 | CAPSCREW, 1/2"NC x 4-1/2" |
| 2 | 645109 | 1 | COUPLING, driving shaft |
| 3 | 090655 | 1 | SEAL, oil, driving shaft |
| 4 | 099914 | 1 | PLATE ASSEMBLY, back (Includes item 5 and PLUG indented below) |
| | 910005 | 1 | PLUG, expansion, 1-1/8" diam. |
| 5 | 059776 | 2 | BEARING, back plate |
| 6 | 099912 | 1 | SHAFT, idling gears |
| 7 | 099910 | 2 | CASE |
| 8 | 099913 | 1 | SHAFT, driving |
| 9 | 059782 | 3 | PIN, gear driving |
| 10 | 099916 | 4 | GEAR |
| 11 | 099911 | 1 | SPACER |
| 12 | 099917 | 1 | PLATE ASSEMBLY, front (Includes item 13) |
| 13 | 059776 | 2 | BEARING, front plate |
| 14 | 088736 | 4 | CAPSCREW (7/16"NC x 3") |
| 15 | 059778 | 1 | GASKET, cover plate |
| 16 | 632112 | 1 | PLATE, cover |
| | 903625 | 6 | CAPSCREW, 1/4"NC x 3/4" |
| 17 | 622790 | 2 | NUT, doweling capscrew (1/2"NC) |




STEERING PUMP ASSEMBLY 638911 (Webster)

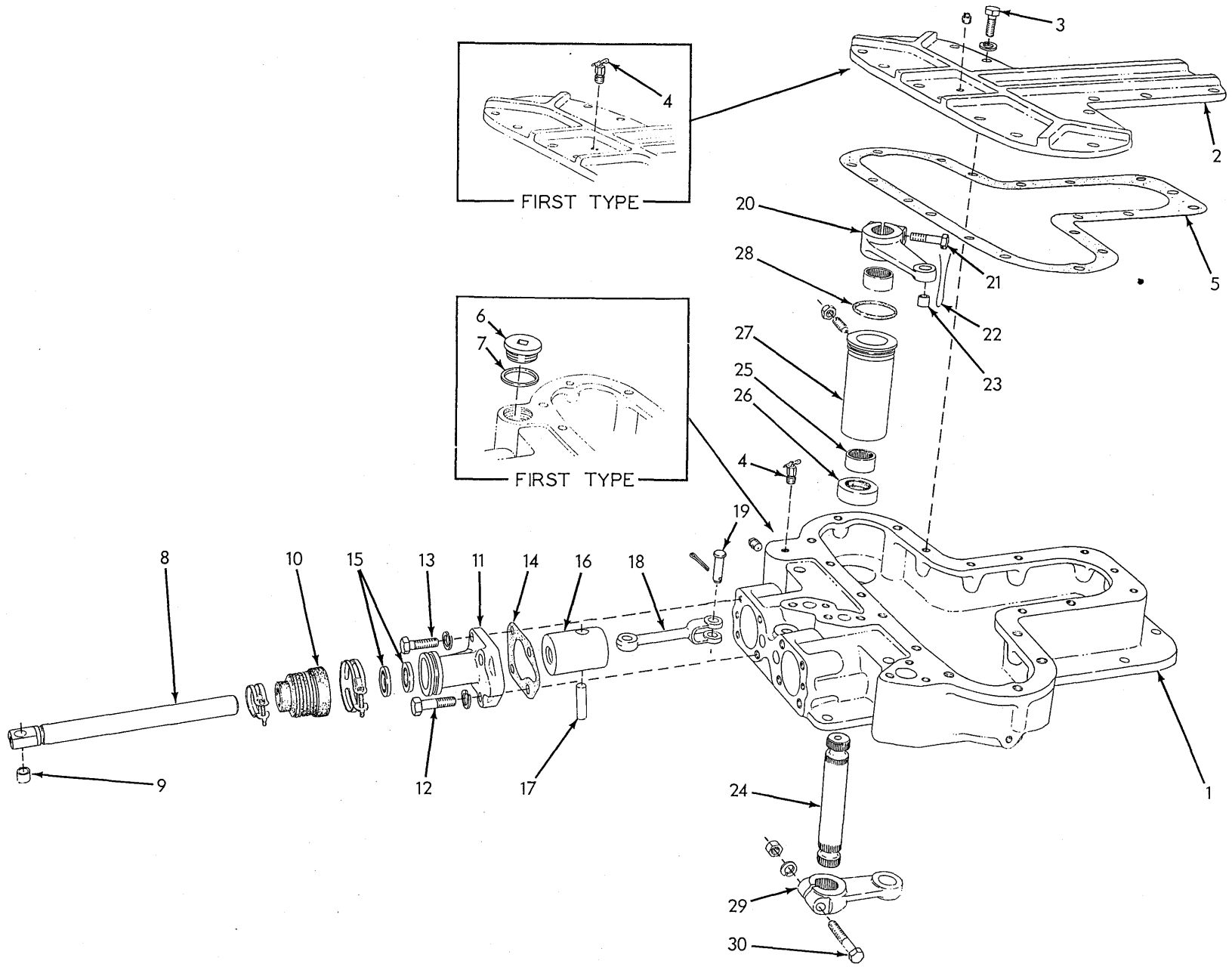
USAGE: See pages 356 and 360

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 643449 | 1 | PLATE ASSEMBLY, adapting (Includes item 3) |
| 2 | 643551 | 4 | CAPSCREW, socket-hd., 5/16"NC x 3/4" |
| 3 | 643438 | 1 | SEAL, oil |
| 4 | 3039053 | 1 | O-RING, adapting plate |
| 5 | 628161 | 2 | RING, snap, drive shaft |
| 6 | 4255031 | 1 | BEARING, ball |
| 7 | 644354 | 1 | SHAFT, drive |
| 8 | 643496 | 1 | BODY ASSEMBLY (Includes item 11) |
| | 921160 | 4 | CAPSCREW, 5/16"NC x 2-1/4" |
| | 904205 | 4 | LOCKWASHER, 5/16" |
| 9 | 054305 | 2 | CAPSCREW, 1/4"NC x 2" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| 10 | 643553 | 2 | CAPSCREW, socket-hd., 5/16"NC x 1-1/2" |
| 11 | 208253 | 1 | BEARING, needle, driven shaft (short) |
| 12 | 643544 | 4 | PIN, dowel (hollow) |
| 13 | 643545 | 2 | GEAR (splined) |
| 14 | 643534 | 2 | PLATE, gear housing |
| 15 | 644898 | 1 | SHAFT ASSEMBLY, driven (Includes gear. Serviced only as a unit) |
| 16 | 643492 | 1 | PLATE ASSEMBLY, center (Includes items 17 and 18) |
| 17 | 643494 | 1 | BEARING, needle, driven shaft (long) |
| 18 | 208253 | 2 | BEARING, needle |
| 19 | 644897 | 1 | SHAFT ASSEMBLY, idler (Includes gear. Serviced only as a unit) |

(Continued)

## STEERING PUMP ASSEMBLY 638911 (Webster)(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 20 | 4254654 | 2 | BEARING, needle, pump cover |
| 21 | 643491 | 1 | COVER ASSEMBLY (Includes item 20) |
| 22 | 051473 | 4 | CAPSCREW, 5/16"NC x 1-3/4" |
| | 904205 | 4 | LOCKWASHER, 5/16" |
| 23 | 054305 | 2 | CAPSCREW, 1/4"NC x 2" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| 24 | 643552 | 2 | CAPSCREW, socket-hd., 5/16"NC x 1-3/4" |
| 25 | 645109 | 1 | COUPLING, drive shaft |

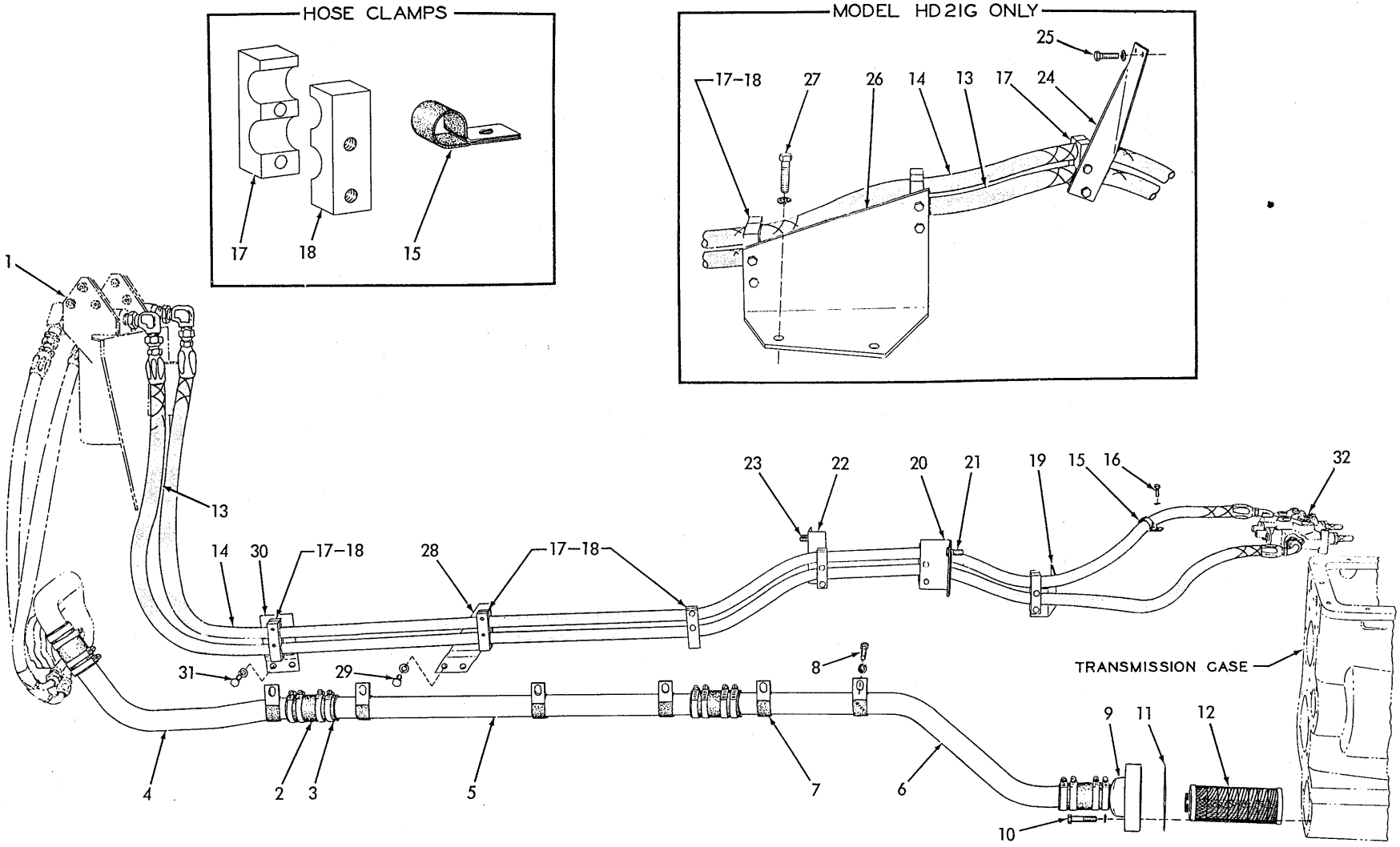



CONTROL VALVE ASSEMBLY 052951

# CONTROL VALVE ASSEMBLY 052951

USAGE: See pages 339 and 343

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 061423 | 1 | HOUSING, control mechanism (If for tractors prior to #11232 also order 1 PLUG 901651) |
| | 901652 | 1 | PLUG, pipe, sq-hd., 1/4"NPT (oil drain) |
| 2 | 097942 | 1 | COVER ASSEMBLY, housing (Includes PLUG indented below) |
| | 901651 | 1 | PLUG, pipe, 1/8"NPT (Not original equipment. Discard when installing 097942 COVER ASSEMBLY on tractors prior to #11232) |
| 3 | 035061 | 15 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 15 | LOCKWASHER, 1/2" |
| 4 | 914453 | 1 | COCK, vent (T-handle, 1/8"NPT) |
| 5 | 061426 | 1 | GASKET, housing cover |
| 6 | 035250 | 1 | PLUG, oil filler (Used prior to tractor #11232) |
| 7 | 035249 | 1 | GASKET, oil filler plug (Used prior to tractor #11232) |
| 8 | 052616 | 2 | SPOOL ASSEMBLY, valve (Includes item 9) |
| 9 | 049988 | 2 | BUSHING, valve spool (steel) |
| 10 | 079421 | 2 | BOOT, valve spool |
| | 913232 | 2 | CLAMP, hose, 1-3/8" diam. (front) |
| | 914503 | 2 | CLAMP, hose, 2-3/16" diam. (rear) |
| 11 | 079372 | 2 | BRACKET, valve spool |
| 12 | 036203 | 4 | CAPSCREW, 1/2 NC x 1-3/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 13 | 035190 | 4 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 14 | 059883 | 2 | GASKET, valve spool bracket |
| 15 | 052641 | 4 | SEAL, oil, valve spool |
| 16 | 065112 | 2 | PISTON, control |
| 17 | 052459 | 2 | PIN, piston |
| 18 | 076792 | 2 | ROD, connecting |
| 19 | 049993 | 2 | PIN, connecting rod |
| | 910967 | 2 | PIN, cotter, 1/8" x 7/8" |
| 20 | 098027 | 2 | LEVER ASSEMBLY, actuating, upper (Includes item 23) |
| 21 | 035814 | 2 | CAPSCREW, drilled-hd., 1/2"NC x 1-3/4" |
| 22 | 023633 | 2 | WIRE, locking, 1/16" x 12" |
| 23 | 049988 | 2 | BUSHING, upper actuating lever |
| 24 | 052468 | 2 | SHAFT, actuating lever |
| 25 | 052642 | 4 | BEARING, needle, actuating lever shaft |
| 26 | 056450 | 2 | SEAL, oil, actuating lever shaft |
| 27 | 052467 | 2 | RETAINER, actuating lever shaft bearings |
| | 912230 | 2 | SETSCREW, slotted-hd., cone-pt., 3/8"NC x 1" |
| | 911026 | 2 | NUT, 3/8"NC |
| 28 | 034004 | 2 | RING, packing, bearing retainer |
| 29 | 069995 | 2 | LEVER, actuating, lower |
| 30 | 035278 | 2 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 911043 | 2 | NUT, 1/2"NF |
| | 904208 | 2 | LOCKWASHER, 1/2" |




HYDRAULIC CONTROL

T-30898

# HYDRAULIC CONTROL

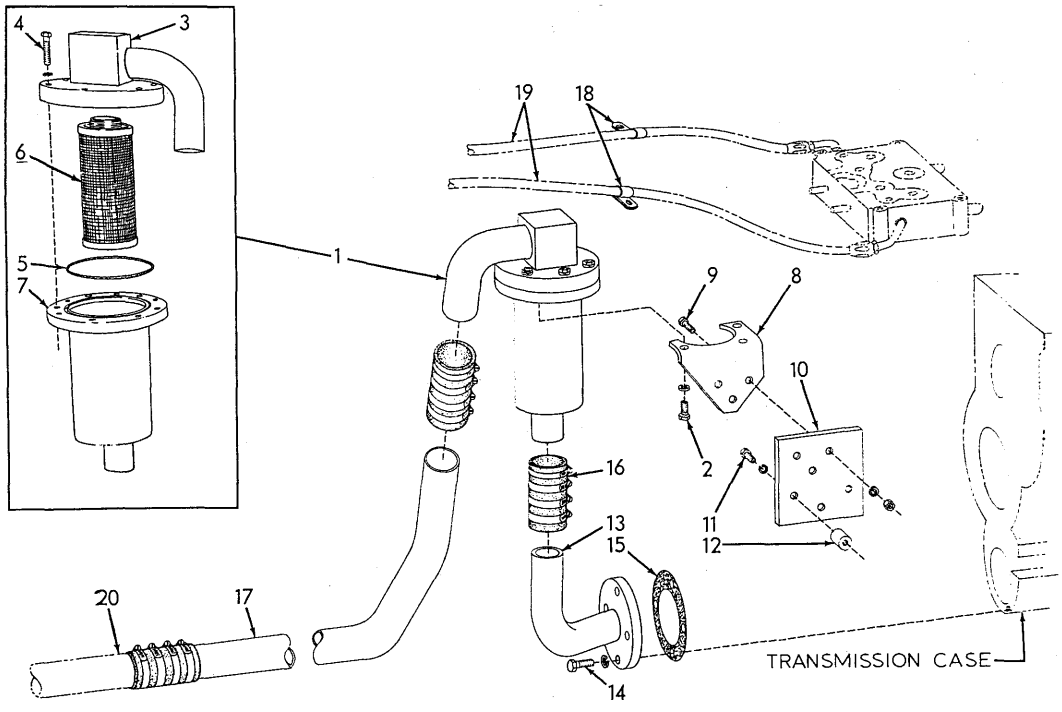
USAGE: Tractors serial No. 12001 and up, including Nos. 11808 and 11809. Also see page 355

* Models HD21A, F
** Model HD21G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | - | - | STEERING PUMP AND FILTERS (See pages 356 and 360 for details) |
| 2 | 623234 | 4 | 4 | HOSE, suction line |
| 3 | 921913 | 16 | 16 | CLAMP, hose, 1-13/16" to 2-3/4" diam. |
| 4 | 623095 | 1 | 1 | TUBE, suction line, front section (Original equipment) |
| | 640607 | 1 | 1 | TUBE, suction line, front section (Used only with Webster service replacement PUMP ASSEMBLY 638911, replacing TUBE 623095) |
| 5 | 623094 | 1 | 1 | TUBE, suction line, intermediate section |
| 6 | 623106 | 1 | 1 | TUBE, suction line, rear section (Not used with HYDRAULIC SYSTEM FILTER CHANGEOVER) |
| 7 | 623235 | 6 | 6 | CLIP, suction tube supporting |
| 8 | 070467 | 6 | 6 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 6 | 6 | LOCKWASHER, 1/2" |
| 9 | 623176 | 1 | 1 | COVER, oil filter compartment (Not used with HYDRAULIC SYSTEM FILTER CHANGEOVER) |
| 10 | 035712 | 4 | 4 | CAPSCREW, 1/2"NC x 2-1/4" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 11 | 623122 | 1 | 1 | GASKET, filter compartment cover |
| 12 | 623268 | 1 | 1 | SCREEN, oil |
| 13 | 623282 | 1 | 1 | HOSE ASSEMBLY, filter to valve, left (See page 6 for parts)(Used prior to tractor #12329) |
| | 919342 | 1 | 1 | CONNECTOR, flare type, 3/4" tube, 3/4"NPT male |
| | 919615 | 1 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 631505 | 1 | 1 | HOSE ASSEMBLY, filter to valve, left (See page 6 for parts)(Effective with tractor #12329) |
| | 919615 | 1 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 921840 | 1 | 1 | ELBOW, flare type, swivel nut, 3/4" tube, 3/4"NPT male |
| 14 | 623283 | 1 | 1 | HOSE ASSEMBLY, filter to valve, right (See page 6 for parts)(Used prior to tractor #12329) |
| | 919342 | 1 | 1 | CONNECTOR, flare type, 3/4" tube, 3/4"NPT male |
| | 919615 | 1 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 631504 | 1 | 1 | HOSE ASSEMBLY, filter to valve, right (See page 6 for parts) (Effective with tractor #12329) |
| | 919615 | 1 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 921840 | 1 | 1 | ELBOW, flare type, swivel nut, 3/4" tube, 3/4"NPT male |
| 15 | 621451 | 1 | 1 | CLIP, hose supporting |
| 16 | 035167 | 1 | 1 | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 17 | 623281 | 9 | 11 | CLAMP, hose supporting (Half only. Plain holes) |
| | 914339 | 6 | 10 | CAPSCREW, 3/8"NF x 2-3/4" |
| | 046419 | 6 | 2 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 12 | 12 | • LOCKWASHER, 3/8" |
| | 911041 | 6 | 10 | NUT, 3/8"NF |
| 18 | 623304 | 3 | 1 | CLAMP, hose supporting (Half only. Threaded holes) |
| 19 | 089687 | 1 | 1 | BRACKET, hose supporting, rear |
| 20 | 623277 | 1 | - | ANGLE, hose supporting, intermediate |
| 21 | 012992 | 2 | - | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| 22 | 089650 | 1 | - | ANGLE, hose supporting, intermediate |
| 23 | 012992 | 2 | - | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| 24 | 622531 | - | 1 | ANGLE, hose supporting, intermediate |
| 25 | 012992 | - | 2 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| 26 | 089865 | - | 1 | ANGLE, hose supporting, intermediate |
| 27 | 035067 | - | 2 | CAPSCREW, 1/2"NF x 2" |
| | 904208 | - | 2 | LOCKWASHER, 1/2" |
| 28 | 094301 | 1 | 1 | PLATE, hose supporting, intermediate |
| 29 | 035061 | 1 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 1 | 2 | LOCKWASHER, 1/2" |
| 30 | 089685 | 1 | 1 | PLATE, hose supporting, front |
| 31 | 035061 | 2 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| 32 | ------ | - | - | VALVE, control (See CONTROL VALVE AND LINES) |



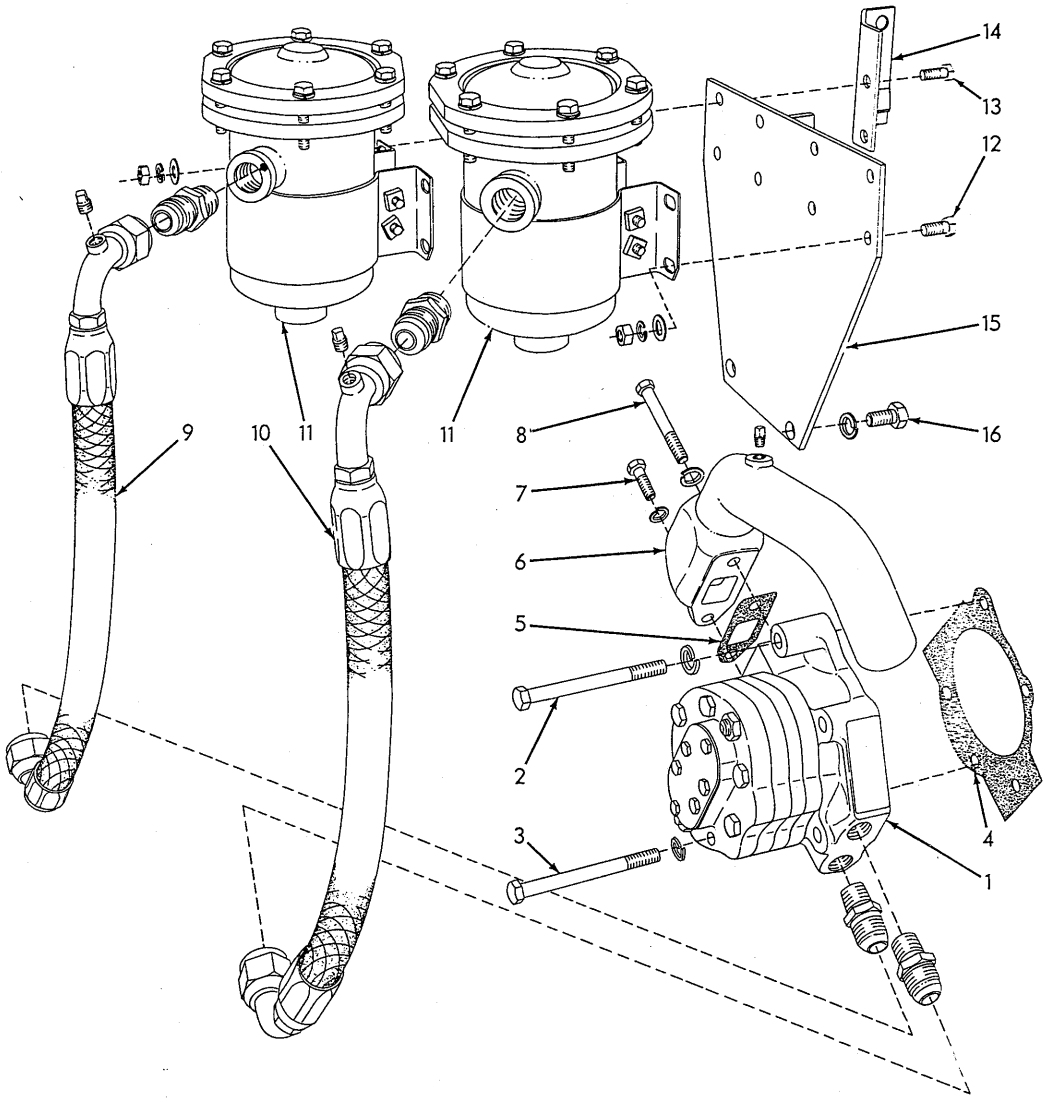

HYDRAULIC SYSTEM FILTER CHANGEOVER

# HYDRAULIC SYSTEM FILTER CHANGEOVER

USAGE: Applicable to tractors serial No. 12001 and up, including Nos. 11808 and 11809. Provides better accessibility to suction line oil screen.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 641778 | 1 | FILTER ASSEMBLY (Consists of items 3 thru 7) |
| 2 | 070469 | 3 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 3 | 641700 | 1 | COVER, filter |
| 4 | 035336 | 6 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | 6 | LOCKWASHER, 3/8" |
| 5 | 923824 | 1 | O-RING, filter cover |
| 6 | 623268 | 1 | SCREEN, oil |
| 7 | 641685 | 1 | HOUSING, filter |
| 8 | 641689 | 1 | BRACKET, filter mounting |
| 9 | 035018 | 3 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 911043 | 3 | NUT, 1/2"NF |
| 10 | 641750 | 1 | PLATE, filter mounting |
| 11 | 035525 | 3 | CAPSCREW, 1/2"NF x 1-1/8" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 12 | 049868 | 3 | BLOCK, tapped (Requires welding to frame) |
| 13 | 641766 | 1 | TUBE, filter to transmission case |
| 14 | 035733 | 4 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 15 | 623122 | 1 | GASKET, oil tube to transmission case |
| 16 | 623234 | 3 | HOSE, suction line |
| | 912913 | 12 | CLAMP, hose, 1-13/16" to 2-3/4" diam. |
| 17 | 641779 | 1 | TUBE, suction line, rear section |
| 18 | 622916 | 2 | CLIP, hose supporting |
| 19 | ------ | - | HOSE, filter to valve |
| 20 | ------ | - | TUBE, suction line, intermediate section |

See HYDRAULIC CONTROL




STEERING PUMP AND FILTERS T-30895

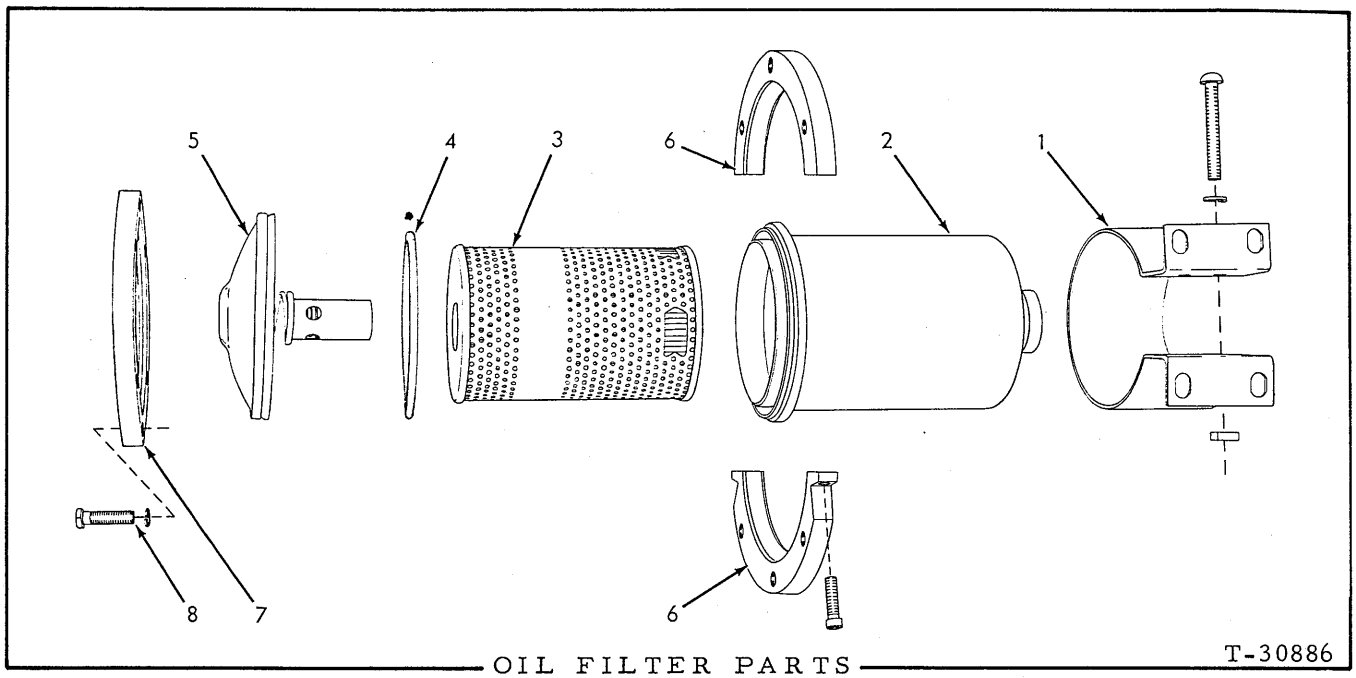
USAGE: Tractors serial No. 12001 thru 12328, including Nos. 11808 and 11809

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 099915 | 1 | PUMP ASSEMBLY (Roper. See page 347 for parts)(Original equipment. Can be replaced by PUMP ASSEMBLY 638911, 3 CAPSCREWS 082013, 2 CAPSCREWS 041250 and 1 TUBE 640607) |
| | 638911 | 1 | PUMP ASSEMBLY (Webster. See page 348 for parts)(Used as service replacement for PUMP ASSEMBLY 099915. Provides 75% capacity increase) |
| 2 | 082937 | 3 | CAPSCREW, 3/8"NC x 4-1/2" |
| | 082013 | 3 | CAPSCREW, 3/8"NC x 3-1/4" (For PUMP 638911 only) |
| | 904206 | 3 | LOCKWASHER, 3/8" |
| 3 | 622781 | 2 | CAPSCREW, 7/16"NC x 4-7/8" |
| | 041250 | 2 | CAPSCREW, 7/16"NC x 1-1/4" (For PUMP 638911 only) |
| | 904207 | 2 | LOCKWASHER, 7/16" |
| 4 | 082810 | 1 | GASKET, hydraulic pump |

(Continued)

## STEERING PUMP AND FILTERS (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 5 | 082811 | 1 | GASKET, inlet elbow |
| 6 | 623171 | 1 | ELBOW, pump inlet |
| | 901651 | 1 | PLUG, pipe, 1/8"NPT |
| 7 | 041250 | 1 | CAPSCREW, 7/16"NC x 1-1/4" |
| 8 | 082905 | 1 | CAPSCREW, 7/16"NC x 3-1/4" |
| | 904207 | 2 | LOCKWASHER, 7/16" |
| 9 | 623280 | 1 | HOSE ASSEMBLY, pump to right filter (See page 6 for parts) |
| | 901651 | 1 | PLUG, pipe, 1/8"NPT |
| | 919615 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 919342 | 1 | CONNECTOR, flare type, 3/4" tube, 3/4"NPT male |
| 10 | 623278 | 1 | HOSE ASSEMBLY, pump to left filter (See page 6 for parts) |
| | 901651 | 1 | PLUG, pipe, 1/8"NPT |
| | 919615 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 919342 | 1 | CONNECTOR, flare type, 3/4" tube, 3/4"NPT male |
| 11 | 629164 | 2 | FILTER ASSEMBLY (See page 358 for parts)(Used prior to tractor #12088)(Order FILTER ASSEMBLY 629707) |
| | 629829 | 2 | FILTER ASSEMBLY (See page 358for parts)(Used on tractors #12088 thru #12135)(Order FILTER ASSEMBLY 629707) |
| | 629707 | 2 | FILTER ASSEMBLY (See page 359 for parts)(Effective with tractor #12136) |
| 12 | 035167 | 6 | CAPSCREW, 3/8"NF x 7/8" |
| 13 | 036034 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 911115 | 8 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| | 911041 | 8 | NUT, 3/8"NF |
| 14 | 623279 | 1 | BRACKET, supporting |
| 15 | 623288 | 1 | BRACKET, filter mounting |
| 16 | 035220 | 2 | CAPSCREW, 1/2"NC x 1-1/8" |
| | 904208 | 2 | LOCKWASHER, 1/2" |

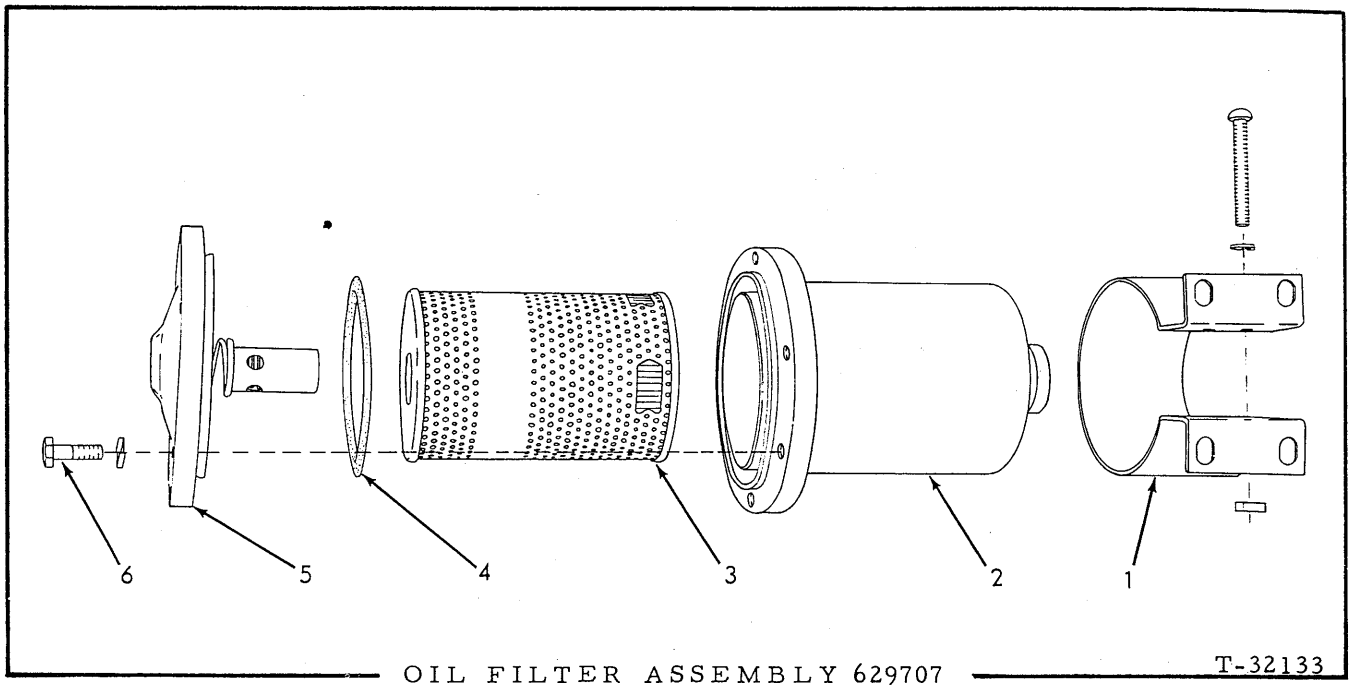



OIL FILTER PARTS

USAGE: See page 356

* 629164 FILTER ASSEMBLY
** 629829 FILTER ASSEMBLY

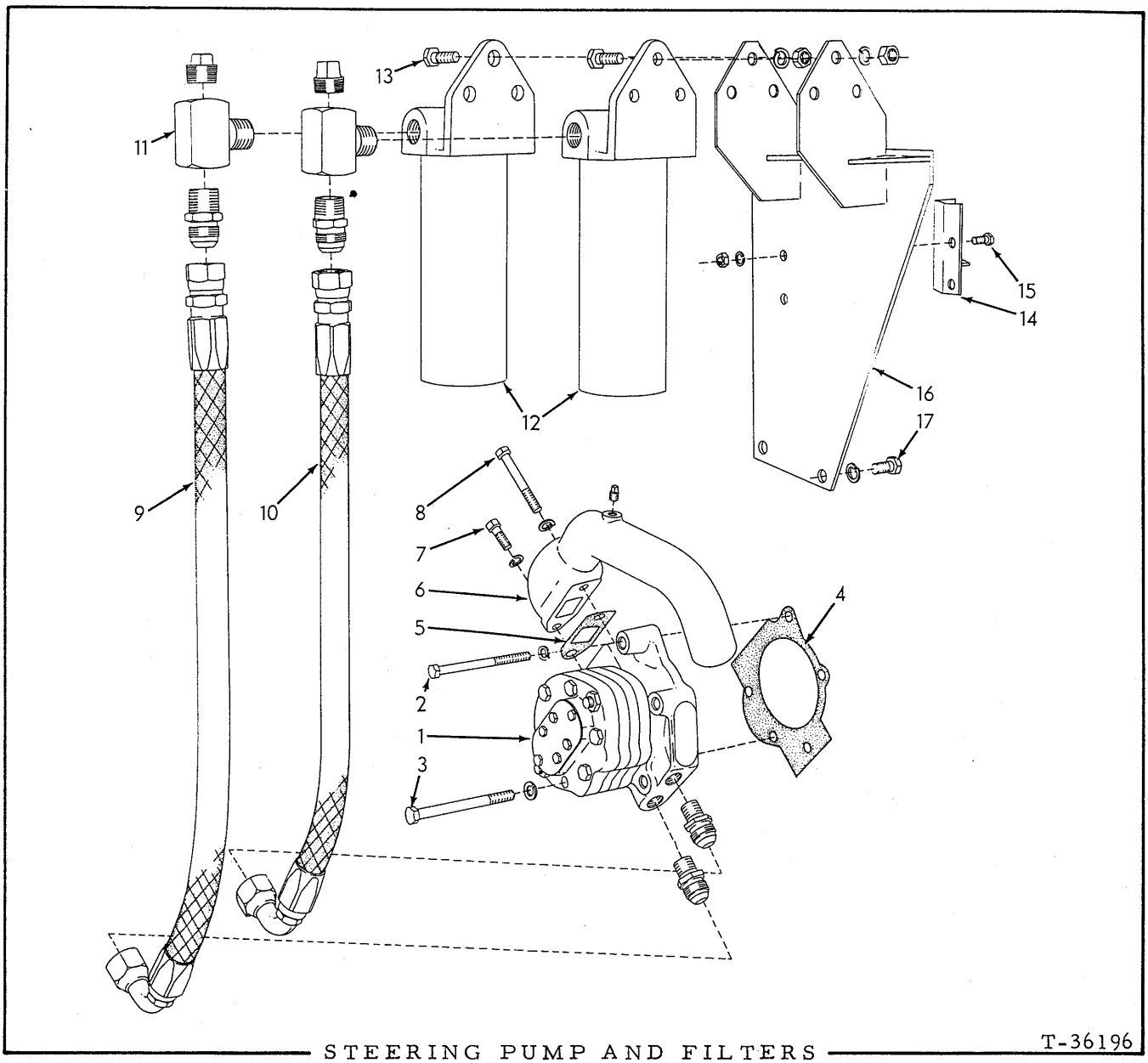
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| | | | | NOTE: Quantities indicated are for one (1) filter assembly only | |
| 1 | 623045 | 1 | 1 | BRACKET ASSEMBLY, mounting (Includes hardware indented below) | |
| | 903765 | 2 | 2 | SCREW, machine, 5/16"NC x 2-1/2" | |
| | 904205 | 2 | 2 | LOCKWASHER, 5/16" | |
| | 901151 | 2 | 2 | NUT, square, 5/16"NC | |
| 2 | 623048 | 1 | 1 | CASE | |
| 3 | 623049 | 1 | 1 | ELEMENT PACKAGE (Includes item 4) | |
| 4 | ------ | 1 | - | GASKET, case cover (Not serviced. Order O-RING 923600) | |
| | 923600 | - | 1 | O-RING, case cover | |
| 5 | 623046 | 1 | 1 | COVER ASSEMBLY (Includes relief valve) | |
| 6 | ------ | 1 | - | RING ASSEMBLY, lower (Includes CAPSCREW indented below)(Order CASE 629643) | See FILTER ASSEMBLY 629707 |
| | ------ | - | 1 | RING ASSEMBLY, lower (Includes CAPSCREW indented below)(Order CASE 629643) | |
| | 912262 | 2 | 2 | CAPSCREW, hex-socket-hd., 1/4"NC x 1" | |
| 7 | ------ | 1 | 1 | RING, upper (Order COVER ASSEMBLY 629642) | |
| 8 | 070960 | 6 | - | CAPSCREW, 3/8"NC x 1-1/2" | |
| | 013059 | - | 6 | CAPSCREW, 3/8"NC x 2" | |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" | |




OIL FILTER ASSEMBLY 629707 T-32133

USAGE: See page 356

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities indicated are for one (1) filter assembly only |
| 1 | 623045 | 1 | BRACKET ASSEMBLY, mounting (Includes hardware indented below) |
| | 903765 | 2 | SCREW, machine, 5/16"NC x 2-1/2" |
| | 904205 | 2 | LOCKWASHER, 5/16" |
| | 901151 | 2 | NUT, square, 5/16"NC |
| 2 | 629643 | 1 | CASE (Includes lower clamp ring) |
| 3 | 623049 | 1 | ELEMENT PACKAGE (Includes item 4) |
| 4 | 923600 | 1 | O-RING, case cover |
| 5 | 629642 | 1 | COVER ASSEMBLY (Includes relief valve and upper clamp ring) |
| 6 | 070960 | 6 | CAPSCREW, 3/8"NC x 1-1/2" |
| | 904206 | 6 | LOCKWASHER, 3/8" |




STEERING PUMP AND FILTERS T-36196

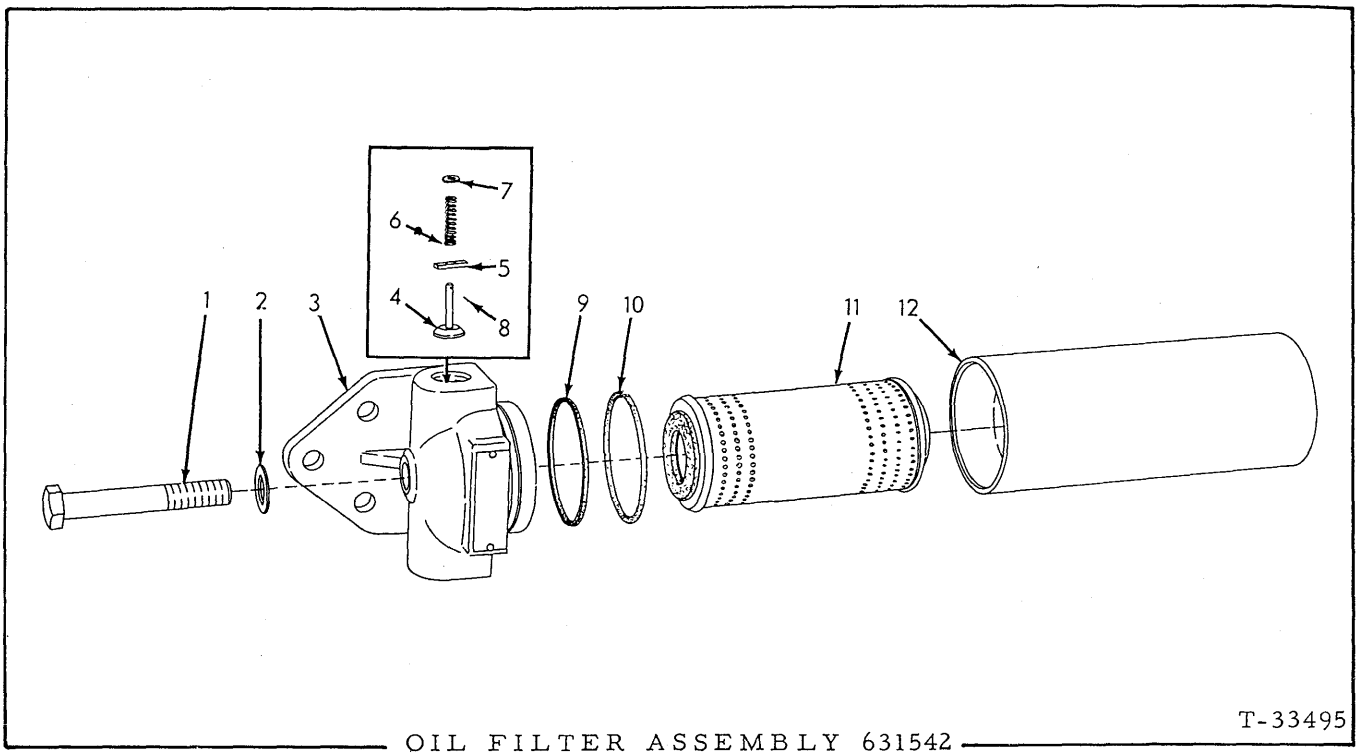
USAGE: Tractors serial No. 12329 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 099915 | 1 | PUMP ASSEMBLY (Roper. See page 347 for parts)(Original equipment. Can be replaced by PUMP ASSEMBLY 638911, 3 CAPSCREWS 082013, 2 CAPSCREWS 041250 and 1 TUBE 640607) |
| 1 | 638911 | 1 | PUMP ASSEMBLY (Webster. See page 348 for parts)(Used as service replacement for PUMP ASSEMBLY 099915. Provides 75% capacity increase) |
| 2 | 082937 | 3 | CAPSCREW, 3/8"NC x 4-1/2" |
| 2 | 082013 | 3 | CAPSCREW, 3/8"NC x 3-1/4" (For PUMP 638911 only) |
| 2 | 904206 | 3 | LOCKWASHER, 3/8" |
| 3 | 622781 | 2 | CAPSCREW, 7/16"NC x 4-7/8" |
| 3 | 041250 | 2 | CAPSCREW, 7/16"NC x 1-1/4" (For PUMP 638911 only) |
| 3 | 904207 | 2 | LOCKWASHER, 7/16" |

(Continued)

## STEERING PUMP AND FILTERS (Continued)

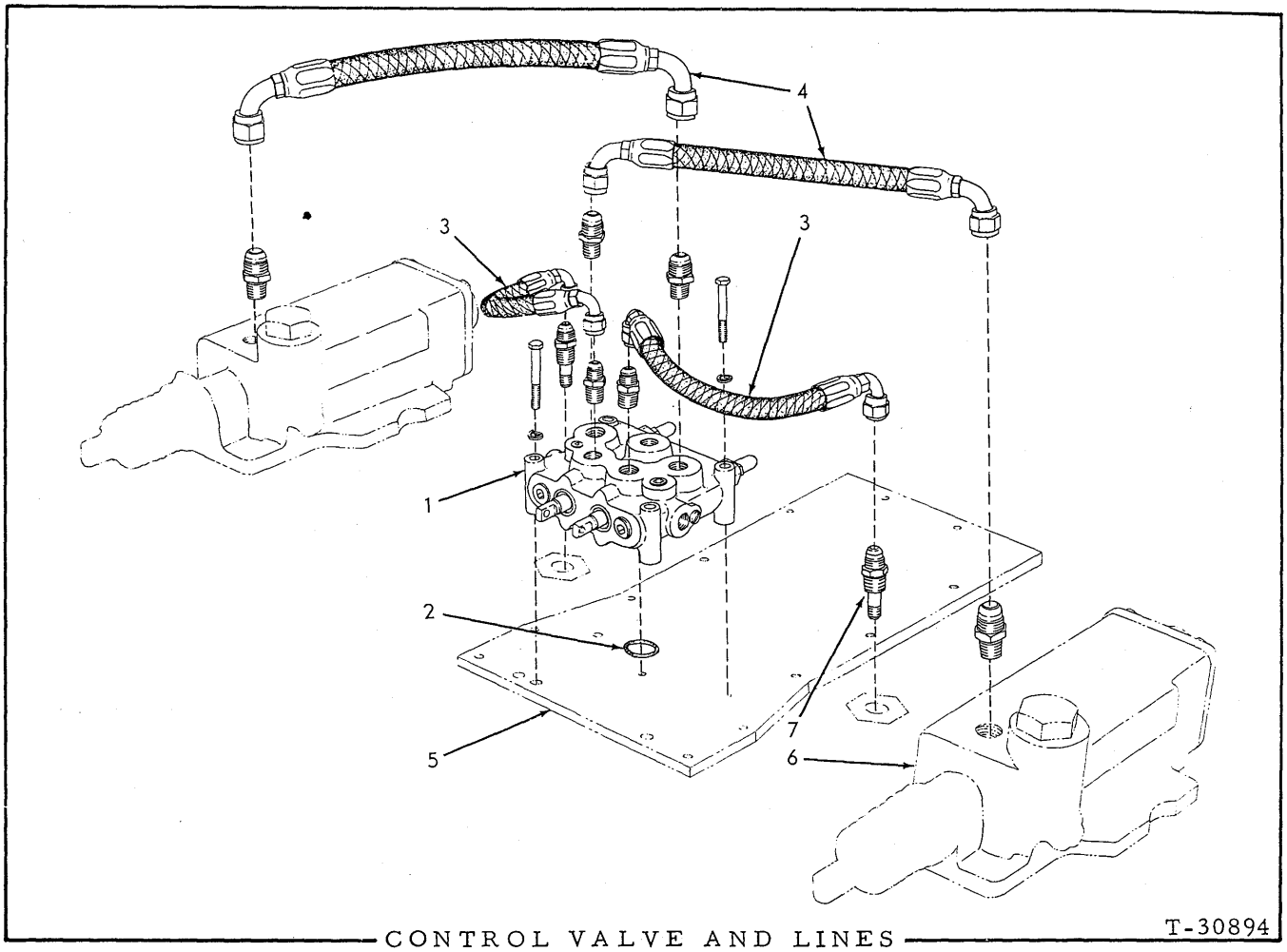
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 4 | 082810 | 1 | GASKET, hydraulic pump |
| 5 | 082811 | 1 | GASKET, inlet elbow |
| 6 | 623171 | 1 | ELBOW, pump inlet |
| | 901651 | 1 | PLUG, pipe, 1/8"NPT |
| 7 | 041250 | 1 | CAPSCREW, 7/16"NC x 1-1/4" |
| 8 | 082905 | 1 | CAPSCREW, 7/16"NC x 3-1/4" |
| | 904207 | 2 | LOCKWASHER, 7/16" |
| 9 | 631503 | 1 | HOSE ASSEMBLY, pump to right filter (See page 6 for parts) |
| | 919615 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 919342 | 1 | CONNECTOR, flare type, 3/4" tube, 3/4"NPT male |
| 10 | 631502 | 1 | HOSE ASSEMBLY, pump to left filter (See page 6 for parts) |
| | 919615 | 1 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| | 919342 | 1 | CONNECTOR, flare type, 3/4" tube, 3/4"NPT male |
| 11 | 634096 | 2 | TEE, pump hose |
| | 905262 | 2 | PLUG, pipe, 3/4"NPT |
| 12 | 631542 | 2 | FILTER ASSEMBLY (See page 362 for parts) |
| 13 | 614478 | 6 | CAPSCREW, 1/2"NF x 1-3/8" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| | 911043 | 6 | NUT, 1/2"NF |
| 14 | 623279 | 1 | BRACKET, supporting |
| 15 | 035167 | 2 | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 16 | 631501 | 1 | BRACKET, filter mounting |
| 17 | 035220 | 2 | CAPSCREW, 1/2"NC x 1-1/8" |
| | 904208 | 2 | LOCKWASHER, 1/2" |




OIL FILTER ASSEMBLY 631542

USAGE: See page 360

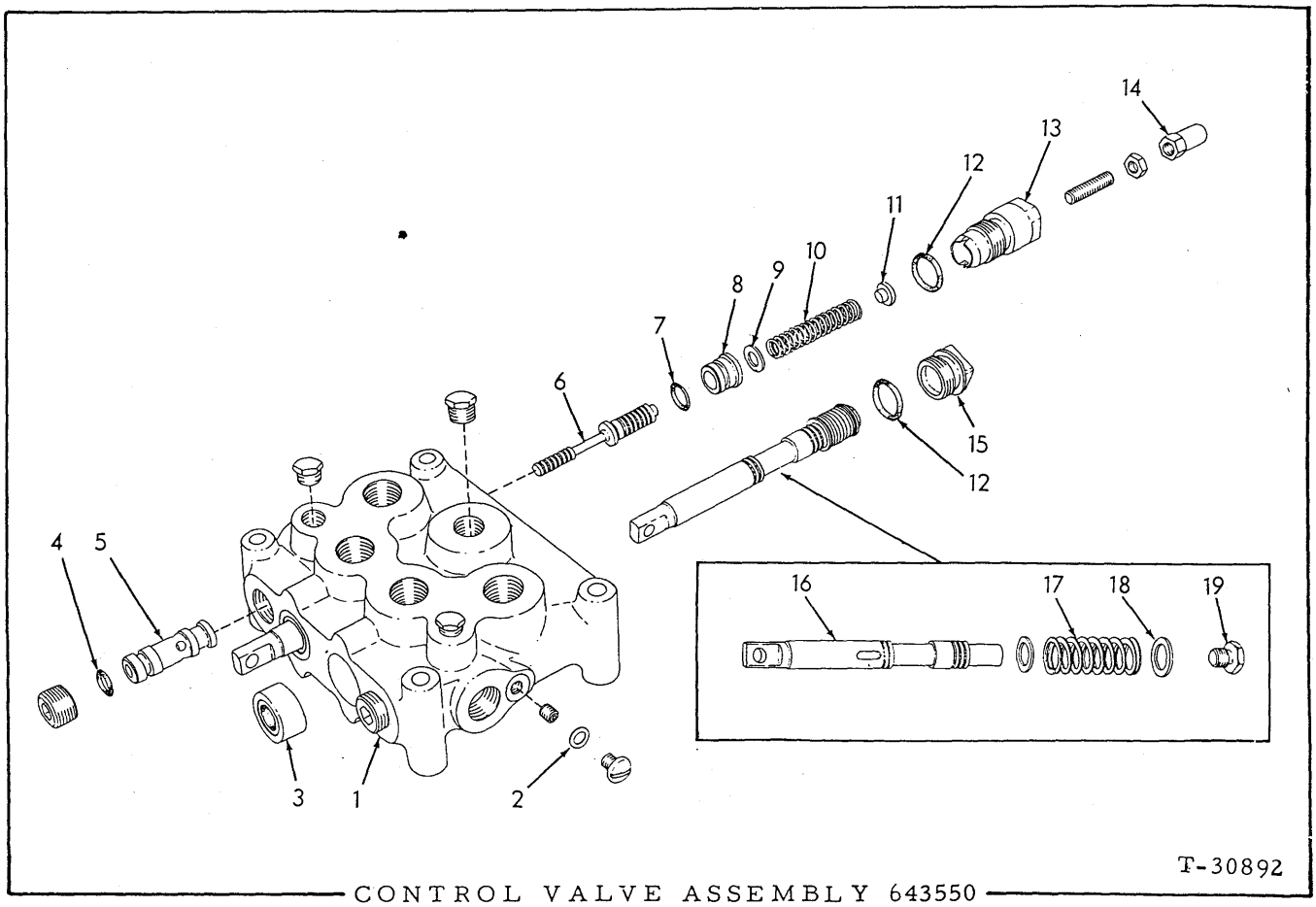
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 070299 | 1 | CAPSCREW, tank retaining (5/8"NF x 4") |
| 2 | 631869 | 1 | WASHER, tank retaining capscrew |
| 3 | 631846 | 1 | HEAD |
| 4 | 631871 | 1 | VALVE, by-pass (Requires snap ring)(Early units) |
| | 646302 | 1 | VALVE, by-pass (Requires cotter pin)(Late units) |
| 5 | 631868 | 1 | SPANNER, by-pass valve |
| 6 | 631870 | 1 | SPRING, by-pass valve |
| 7 | 632060 | 1 | WASHER, by-pass valve spring |
| 8 | 632061 | 1 | RING, snap, by-pass valve (Early units) |
| | 900970 | 1 | PIN, cotter, 1/16" x 1/2" (Late units) |
| 9 | 632062 | 1 | RING, sealing, filter head |
| 10 | 632063 | 1 | O-RING, filter head |
| 11 | 631828 | 1 | ELEMENT KIT (Includes items 2, 9 and 10) |
| 12 | 631872 | 1 | TANK |




CONTROL VALVE AND LINES T-30894

USAGE: Tractors serial No. 12001 and up, including Nos. 11808 and 11809

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 643550 | 1 | VALVE ASSEMBLY, control (See page 364 for parts) |
| | 917151 | 2 | CAPSCREW, 3/8"NF x 3-1/4" |
| | 913633 | 2 | CAPSCREW, 3/8"NF x 4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 2 | 923575 | 1 | O-RING, valve to compartment cover |
| 3 | 629785 | 1 | HOSE ASSEMBLY, clutch control, left (See page 6 for parts) |
| | 629780 | 1 | HOSE ASSEMBLY, clutch control, right (See page 6 for parts) |
| | 919128 | 2 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male |
| 4 | 623287 | 2 | HOSE ASSEMBLY, brake control (See page 6 for parts) |
| | 919615 | 4 | CONNECTOR, flare type, 3/4" tube, 1/2"NPT male |
| 5 | ------ | - | COVER, bevel gear compartment (See STEERING CLUTCH AND FINAL DRIVE HOUSING) |
| 6 | ------ | - | VALVE ASSEMBLY (See HYDRAULIC BRAKES) |
| 7 | 919128 | 2 | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male (Used prior to tractor #12168, excluding #12163) |
| | 628458 | 2 | UNION, bulkhead (Effective with tractor #12168, including #12163) |




CONTROL VALVE ASSEMBLY 643550

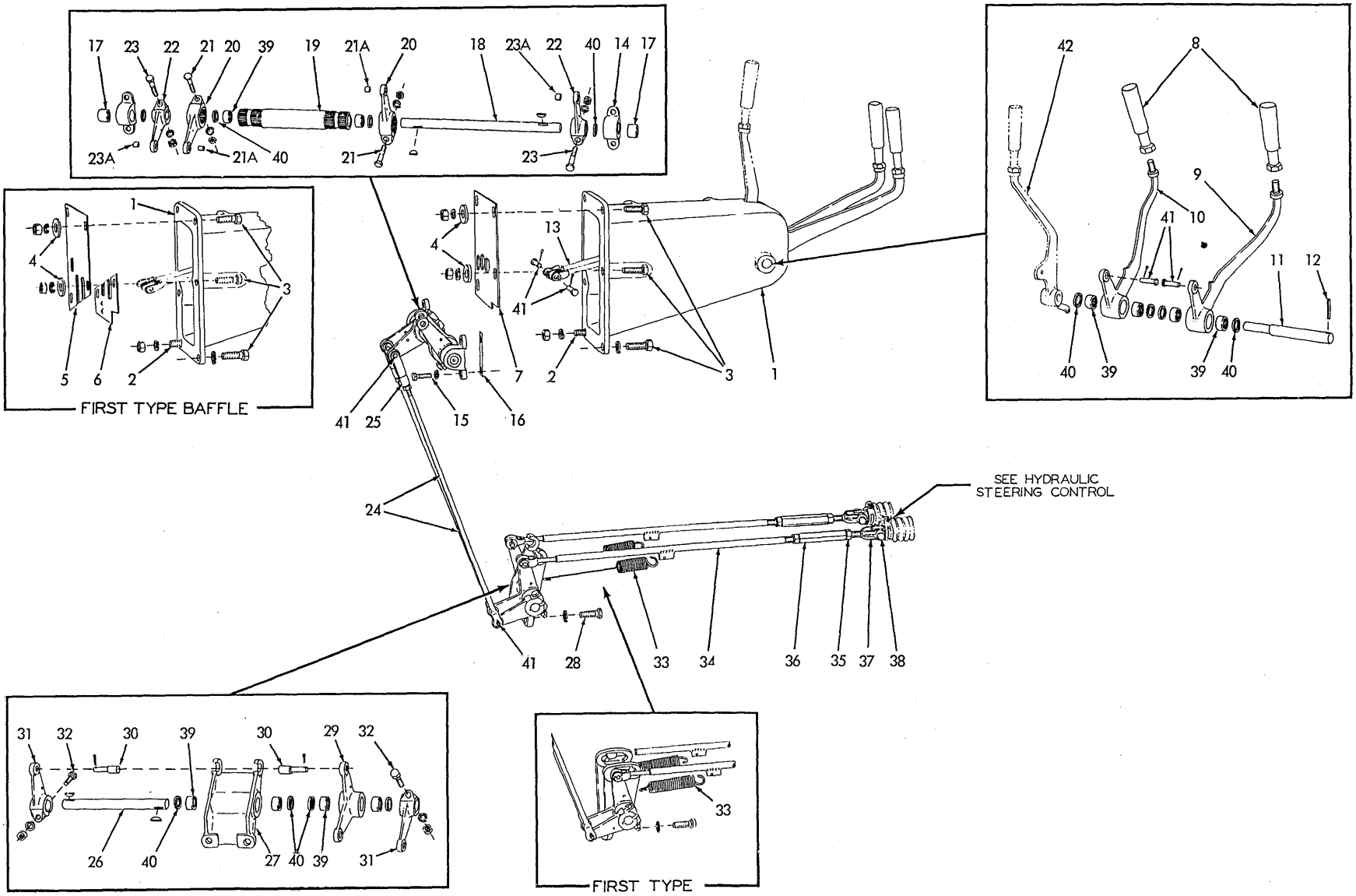
USAGE: See page 363

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | HOUSING (Not serviced separately) |
| | 919840 | 2 | PLUG, pipe, hex-hd., 1/4"NPT |
| | 920333 | 1 | PLUG, pipe, hex-hd., 3/8"NPT |
| | 908944 | 2 | PLUG, pipe, hex-socket, 1/2"NPT |
| | 900585 | 2 | SCREW, machine, 5/16"NC x 5/8" |
| 2 | 3001737 | 2 | GASKET, plugging screw |
| 3 | 623420 | 2 | SEAL, oil, operating plunger |
| 4 | 923548 | 2 | O-RING, relief valve front seat |
| 5 | 3014007 | 2 | SEAT, relief valve, front |
| | 905564 | 2 | SETSCREW, hex-socket, cup-pt., 5/16"NC x 5/8" |
| 6 | 623431 | 2 | PLUNGER, relief valve |
| 7 | 923376 | 2 | O-RING, relief valve rear seat |
| 8 | 623430 | 2 | SEAT, relief valve, rear |
| 9 | 631935 | 2 | WASHER, relief valve plunger |
| 10 | 630528 | 2 | SPRING, relief valve |

(Continued)

## CONTROL VALVE ASSEMBLY 643550 (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 11 | 623427 | 2 | GUIDE, relief valve spring |
| 12 | 923574 | 4 | O-RING, rear caps |
| 13 | 623428 | 2 | CAP, relief valve adjustment |
| | 921303 | 2 | SETSCREW, oval-pt., 3/8"NF x 1-1/2" |
| | 911048 | 2 | NUT, jam, 3/8"NF |
| 14 | 3002757 | 2 | NUT, acorn, relief valve |
| 15 | 623429 | 2 | CAP, operating plunger |
| 16 | ------ | 2 | PLUNGER, operating (Not serviced separately) |
| 17 | 627378 | 2 | SPRING, operating plunger |
| 18 | 627377 | 4 | WASHER, operating plunger |
| 19 | 627380 | 2 | CAP, operating plunger |




T-11267

STEERING LEVERS AND LINKAGE (First type)

# STEERING LEVERS AND LINKAGE

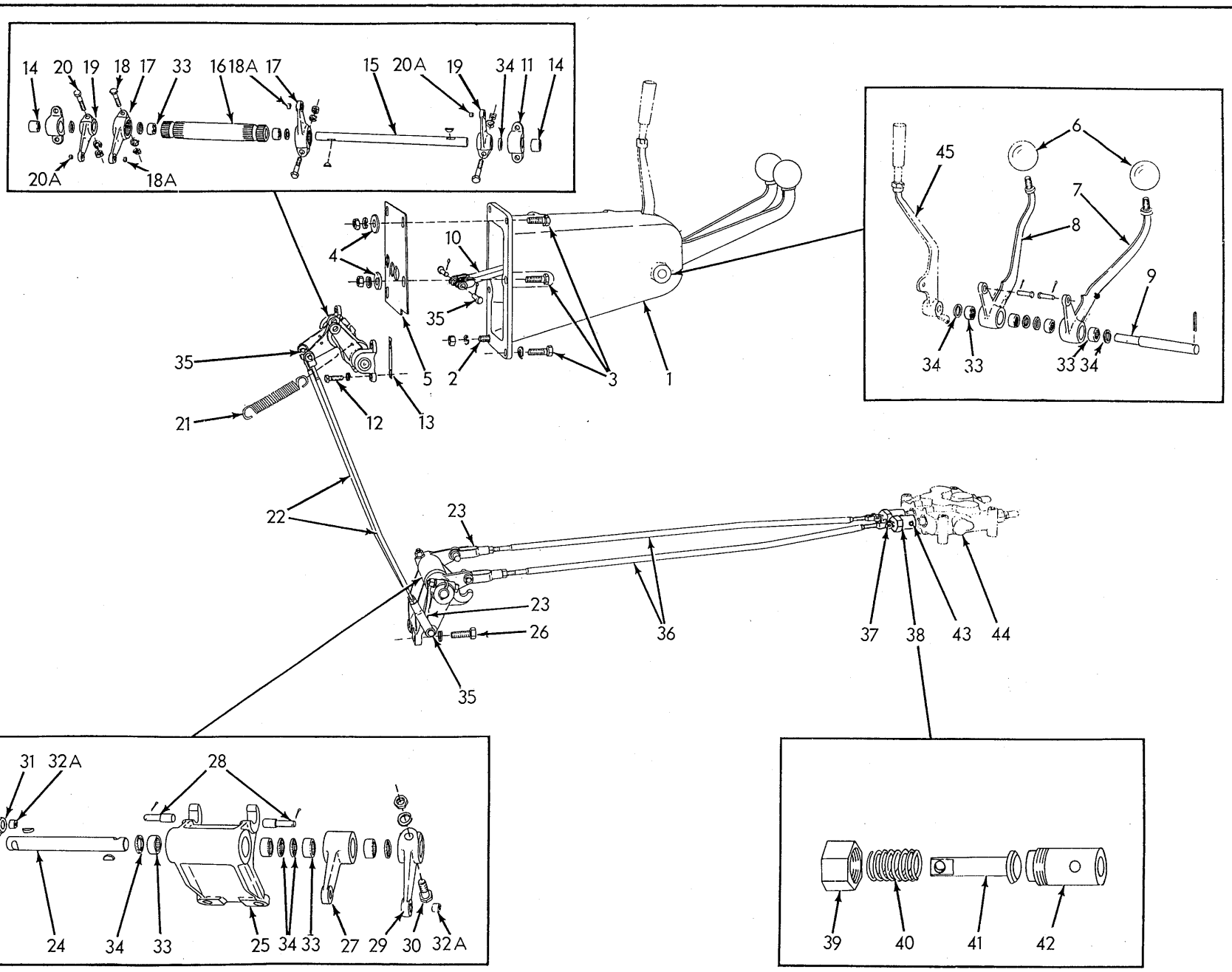
USAGE: Tractors prior to serial No. 12001, excluding Nos. 11808 and 11809

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 099497 | 1 | BRACKET, steering lever |
| 2 | 070469 | 1 | CAPSCREW, 1/2"NF x 1-1/4" |
| 3 | 035018 | 5 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 4 | 064531 | 4 | WASHER, plain |
| | 911043 | 5 | NUT, 1/2"NF |
| 5 | ------ | 1 | PLATE, air baffle, upper } Used prior to tractor #11043 including #11089. Order item 7 |
| 6 | ------ | 1 | PLATE, air baffle, lower } |
| 7 | 096141 | 1 | PLATE, air baffle (Effective with tractor #11043 on all models except HD21G) |
| | 098025 | 1 | PLATE, air baffle (Effective with tractor #11043, excluding #11089, on Model HD21G only) |
| 8 | 078620 | 2 | GRIP, steering lever (Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 091862 | 2 | KNOB, steering lever (Effective with Model HD21G tractor #11725, excluding #11798) |
| 9 | 052583 | 1 | LEVER, steering, left (Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 622547 | 1 | LEVER, steering, left (Effective with Model HD21G tractor #11725, excluding #11798) |
| 10 | 052584 | 1 | LEVER, steering, right (Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 622548 | 1 | LEVER, steering, right (Effective with Model HD21G tractor #11725, excluding #11798) |
| 11 | 054236 | 1 | SHAFT, steering lever |
| 12 | 915989 | 1 | PIN, roll, 3/16" x 1-3/8" |
| 13 | 052569 | 2 | ROD, control, upper |
| 14 | 052566 | 2 | BLOCK, pillow, cross shaft |
| 15 | 036034 | 4 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 16 | 061554 | 4 | SHIM, aligning, upper cross shaft (Use as req'd) |
| 17 | 052644 | 2 | BEARING, needle, upper cross shaft (3/4" long) |
| 18 | 052572 | 1 | SHAFT, cross, upper |
| | 905123 | 2 | KEY, #9 woodruff, 3/16" x 3/4" |
| 19 | 052573 | 1 | TUBE, upper cross shaft levers |
| 20 | 630841 | 2 | LEVER ASSEMBLY, upper cross shaft tube (Includes item 21A) |
| 21 | 046419 | 2 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 21A | 624584 | 2 | BUSHING, upper cross shaft lever |

(Continued)

## STEERING LEVERS AND LINKAGE (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 22 | 630837 | 2 | LEVER ASSEMBLY, control (Includes item 23A) |
| 23 | 046419 | 2 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 23A | 624584 | 2 | BUSHING, control lever |
| 24 | 081125 | 2 | ROD, control, vertical (Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 622565 | 2 | ROD, control, vertical (Effective with Model HD21G tractor #11725, excluding #11798) |
| | 911041 | 2 | NUT, 3/8"NF |
| 25 | 628736 | 2 | YOKE, control rod |
| 26 | 069467 | 1 | SHAFT, cross, lower |
| | 905123 | 2 | KEY, #9 woodruff, 3/16" x 3/4" |
| 27 | 099491 | 1 | BRACKET, lower cross shaft |
| 28 | 035733 | 2 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 29 | 081301 | 1 | BELLCRANK, lower cross shaft |
| 30 | 052564 | 2 | PIN, control rod yoke |
| | 900801 | 2 | PIN, cotter, 3/32" x 3/4" |
| 31 | 081300 | 2 | LEVER, lower cross shaft |
| 32 | 046419 | 2 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | NUT, 3/8"NF |
| 33 | 043881 | 2 | SPRING, rod retracting (5" long)(Used prior to tractor #11410, excluding #11309 and #11387) |
| | 044245 | 2 | SPRING, rod retraeting (7-1/2" long)(Effective with tractor #11410, including #11309 and #11387) |
| 34 | 099498 | 2 | ROD, control, lower (If for tractors prior to #11410, excluding #11309 and #11387 also order 1 SPRING 044245) |
| | 911043 | 2 | NUT, 1/2"NF |
| 35 | 053005 | 2 | NUT, lower control rod yoke (1/2"NF left hand thread) |
| 36 | 052601 | 2 | NUT, adjusting, lower control rod |
| 37 | 073034 | 2 | YOKE, lower control rod |
| 38 | 049993 | 2 | PIN, lower control rod yoke |
| | 900805 | 2 | PIN, cotter, 1/8" x 3/4" |
| 39 | 052643 | 10 | BEARING, needle, control linkage (1/2" long) |
| 40 | 052662 | 12 | SEAL, dust, control linkage bearings |
| 41 | 078810 | 8 | PIN, control linkage yokes |
| | 900801 | 8 | PIN, cotter, 3/32" x 3/4" |
| 42 | ------ | - | LEVER, throttle (See THROTTLE CONTROL) |




T-30888

STEERING LEVERS AND LINKAGE (Second type)

# STEERING LEVERS AND LINKAGE

USAGE: Tractors serial No. 12001 and up, including Nos. 11808 and 11809

* Models HD21A, F
** Model HD21G

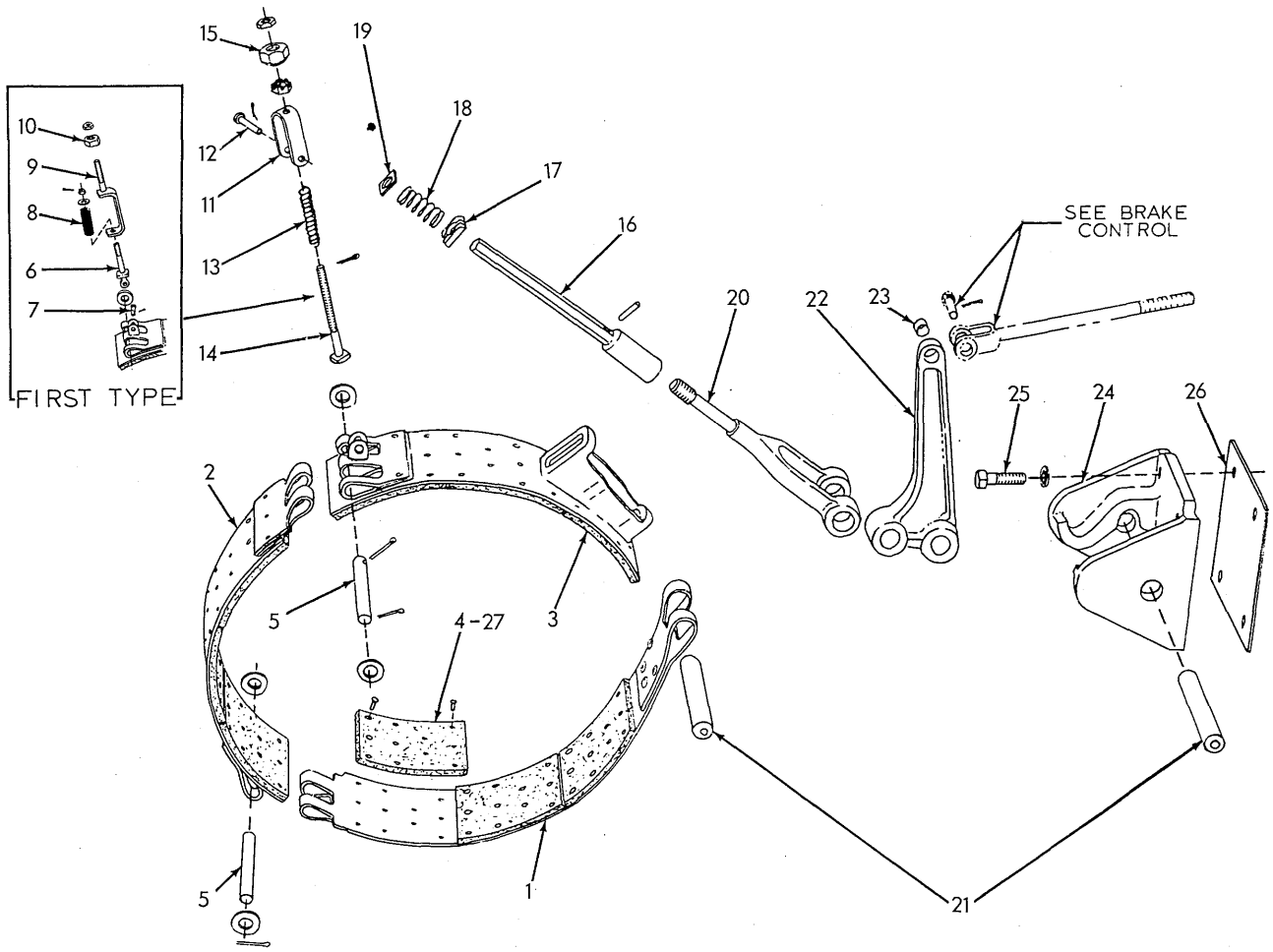
| ITEM | PART NO. | QTY * | QTY ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 099497 | 1 | 1 | BRACKET, steering lever |
| 2 | 070469 | 1 | 1 | CAPSCREW, 1/2"NF x 1-1/4" |
| 3 | 035018 | 5 | 5 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 6 | 6 | LOCKWASHER, 1/2" |
| 4 | 064531 | 4 | 4 | WASHER, plain |
| | 911043 | 5 | 5 | NUT, 1/2"NF |
| 5 | 096141 | 1 | - | PLATE, air baffle |
| | 098025 | - | 1 | PLATE, air baffle |
| 6 | 090020 | 2 | - | KNOB, steering lever |
| | 091862 | - | 2 | KNOB, steering lever |
| 7 | 052583 | 1 | - | LEVER, steering, left |
| | 622547 | - | 1 | LEVER, steering, left |
| 8 | 052584 | 1 | - | LEVER, steering, right |
| | 622548 | - | 1 | LEVER, steering, right |
| 9 | 054236 | 1 | 1 | SHAFT, steering lever |
| | 915989 | 1 | 1 | PIN, roll, 3/16" x 1-3/8" |
| 10 | 052569 | 2 | 2 | ROD, control, upper |
| 11 | 052566 | 2 | 2 | BLOCK, pillow, cross shaft |
| 12 | 036034 | 4 | 4 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 13 | 061554 | 4 | 4 | SHIM, aligning, upper cross shaft (Use as required) |
| 14 | 052644 | 2 | 2 | BEARING, needle, upper cross shaft (3/4" long) |
| 15 | 052572 | 1 | 1 | SHAFT, cross, upper |
| | 905123 | 2 | 2 | KEY, #9 woodruff, 3/16" x 3/4" |
| 16 | 052573 | 1 | 1 | TUBE, upper cross shaft levers |
| 17 | 630841 | 2 | 2 | LEVER ASSEMBLY, upper cross shaft tube (Includes item 18A) |
| 18 | 046419 | 2 | 2 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | NUT, 3/8"NF |
| 18A | 624584 | 2 | 2 | BUSHING, upper cross shaft lever |
| 19 | 630837 | 2 | 2 | LEVER ASSEMBLY, control (Includes item 20A) |
| 20 | 046419 | 2 | 2 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | NUT, 3/8"NF |
| 20A | 624584 | 2 | 2 | BUSHING, control lever |
| 21 | 072438 | 2 | 2 | SPRING, retracting |

(Continued)

## STEERING LEVERS AND LINKAGE (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 22 | 081125 | 2 | - | ROD, control, vertical |
| | 622565 | - | 2 | ROD, control, vertical |
| | 911041 | 2 | 2 | NUT, 3/8"NF |
| 23 | 628736 | 4 | 4 | YOKE, control rod |
| 24 | 623284 | 1 | 1 | SHAFT, cross, lower |
| | 905123 | 2 | 2 | KEY, #9 woodruff, 3/16" x 3/4" |
| 25 | 623290 | 1 | 1 | BRACKET, lower cross shaft |
| 26 | 035733 | 2 | 2 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| 27 | 623286 | 1 | 1 | BELLCRANK, lower cross shaft |
| 28 | 052564 | 2 | 2 | PIN, control rod yoke |
| | 900801 | 2 | 2 | PIN, cotter, 3/32" x 3/4" |
| 29 | 630837 | 1 | 1 | LEVER ASSEMBLY, lower cross shaft, left (Includes item 32A) |
| 30 | 046419 | 1 | 1 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 31 | 630836 | 1 | 1 | LEVER ASSEMBLY, lower cross shaft, right (Includes item 32A) |
| 32 | 046419 | 1 | 1 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 32A | 624584 | 2 | 2 | BUSHING, lower cross shaft levers |
| 33 | 052643 | 10 | 10 | BEARING, needle, control linkage (1/2" long) |
| 34 | 052662 | 12 | 12 | SEAL, dust, control linkage bearings |
| 35 | 078810 | 8 | 8 | PIN, control linkage yokes |
| | 900801 | 8 | 8 | PIN, cotter, 3/32" x 3/4" |
| 36 | 630872 | 2 | 2 | ROD, control, lower (If for tractors prior to #12230 also order items 38 and 43) |
| | 911041 | 2 | 2 | NUT, 3/8"NF |
| 37 | 627451 | 2 | 2 | PIN, lower control rod |
| | 900801 | 2 | 2 | PIN, cotter, 3/32" x 3/4" |
| 38 | 630846 | 2 | 2 | OVERTRAVEL ASSEMBLY (Consists of items 39 thru 42)(Effective with tractor #12230) |
| 39 | ------ | 2 | 2 | CAP, overtravel |
| 40 | ------ | 2 | 2 | SPRING, overtravel |
| 41 | ------ | 2 | 2 | PLUNGER, overtravel |
| 42 | ------ | 2 | 2 | SEAT, overtravel |
| | | | | Not serviced separately |
| 43 | 630833 | 2 | 2 | PIN, overtravel (Effective with tractor #12230) |
| | 900801 | 2 | 2 | PIN, cotter, 3/32" x 3/4" |
| 44 | ------ | 1 | 1 | VALVE, control (See CONTROL VALVE AND LINES) |
| 45 | ------ | 1 | 1 | LEVER, throttle (See THROTTLE CONTROL) |

MEMO



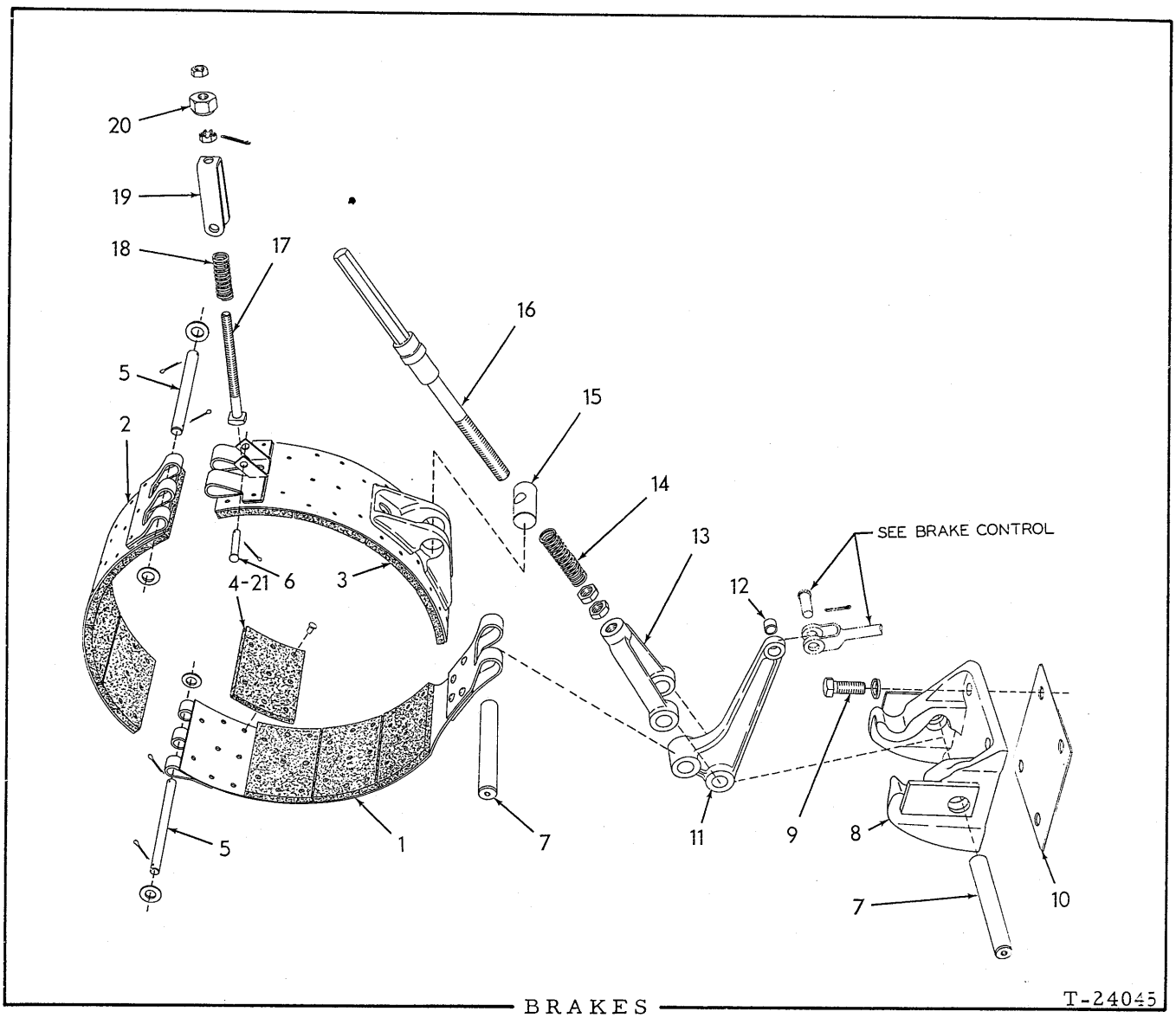

BRAKES

USAGE: Tractors prior to serial No. 11206 excluding Nos. 9446, 9447, 9448 and 9449

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | 058016 | 2 | BAND ASSEMBLY, bottom section (Each includes 3 LININGS 058010, 30 RIVETS 911097 and 3 RIVETS 915639) | |
| 2 | 058013 | 2 | BAND ASSEMBLY, intermediate section (Each includes 3 LININGS 058010, 27 RIVETS 911097 and 3 RIVETS 915639) | |
| 3 | 058009 | 2 | BAND ASSEMBLY, top section (Each includes 3 LININGS 058010, 29 RIVETS 911097 and 3 RIVETS 915639) | |
| 4 | 058010 | 18 | LINING, band | See item 27 |
| | 911097 | 172 | RIVET, tubular, brass, fl-hd., 3/16" x 3/8" | |
| | 915639 | 22 | RIVET, tubular, brass, fl-hd., 3/16" x 21/32" | |
| 5 | 053260 | 4 | PIN, hinge, band | |
| | 914659 | 8 | WASHER, plain, SAE std., 9/16" | |
| | 900938 | 8 | PIN, cotter, 3/16" x 1" | |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Items 6 thru 10 comprise the First type Band Support used on tractors prior to serial No. 9430. |
| 6 | 060772 | 2 | BOLT, eye, band supporting |
| | 900817 | 2 | WASHER, plain, U.S. std., 3/8" |
| | 910863 | 2 | NUT, slotted, 3/8"NF |
| | 900802 | 2 | PIN, cotter, 3/32" x 1" |
| 7 | 078810 | 2 | PIN, eye bolt |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| 8 | 060668 | 2 | SPRING, supporting, eye bolt |
| 9 | 060770 | 2 | SUPPORT, band adjustment |
| | 913830 | 2 | NUT, jam, 1/2"NF |
| 10 | 060774 | 2 | NUT, band adjustment support |
| | | | NOTE: Items 11 thru 15 comprise the Second Type Band Support effective with tractor serial No. 9430 |
| 11 | 095216 | 2 | YOKE, band supporting |
| 12 | 085038 | 2 | PIN, band supporting yoke |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| 13 | 095214 | 2 | SPRING, band supporting |
| 14 | 095215 | 2 | BOLT, band supporting |
| | 910867 | 2 | NUT, slotted, 1/2"NF |
| | 900807 | 2 | PIN, cotter, 1/8" x 1-1/4" |
| 15 | 060774 | 2 | NUT, band supporting bolt |
| | 913830 | 2 | NUT, jam, 1/2"NF |
| 16 | 078998 | 2 | ADJUSTER, band |
| | 915634 | 2 | PIN, roll, 1/4" x 1-1/8" |
| 17 | 079208 | 2 | BLOCK, adjuster spring |
| 18 | 079203 | 2 | SPRING, adjuster |
| 19 | 079212 | 2 | WASHER, adjuster spring |
| 20 | 051904 | 2 | FORK, band adjusting |
| 21 | 052634 | 4 | PIN, band end (6-1/4" long)(Original equipment) |
| | 095493 | 4 | PIN, band end (6-7/8" long)(Service replacement. Used with BRACKET 095495 only) |
| 22 | 066391 | 2 | LEVER ASSEMBLY, band (Includes item 23) |
| 23 | 052669 | 2 | BUSHING, band lever |
| 24 | ------ | 2 | BRACKET, lever (Original equipment. Order BRACKET 095495 and 2 PINS 095493) |
| | 095495 | 2 | BRACKET, lever (Service replacement) |
| 25 | 035229 | 8 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| 26 | 099429 | 2 | SHIM, lever bracket |
| 27 | 065378 | 2 | LINING KIT, brake band (Includes linings and attaching rivets for one (1) side only) |



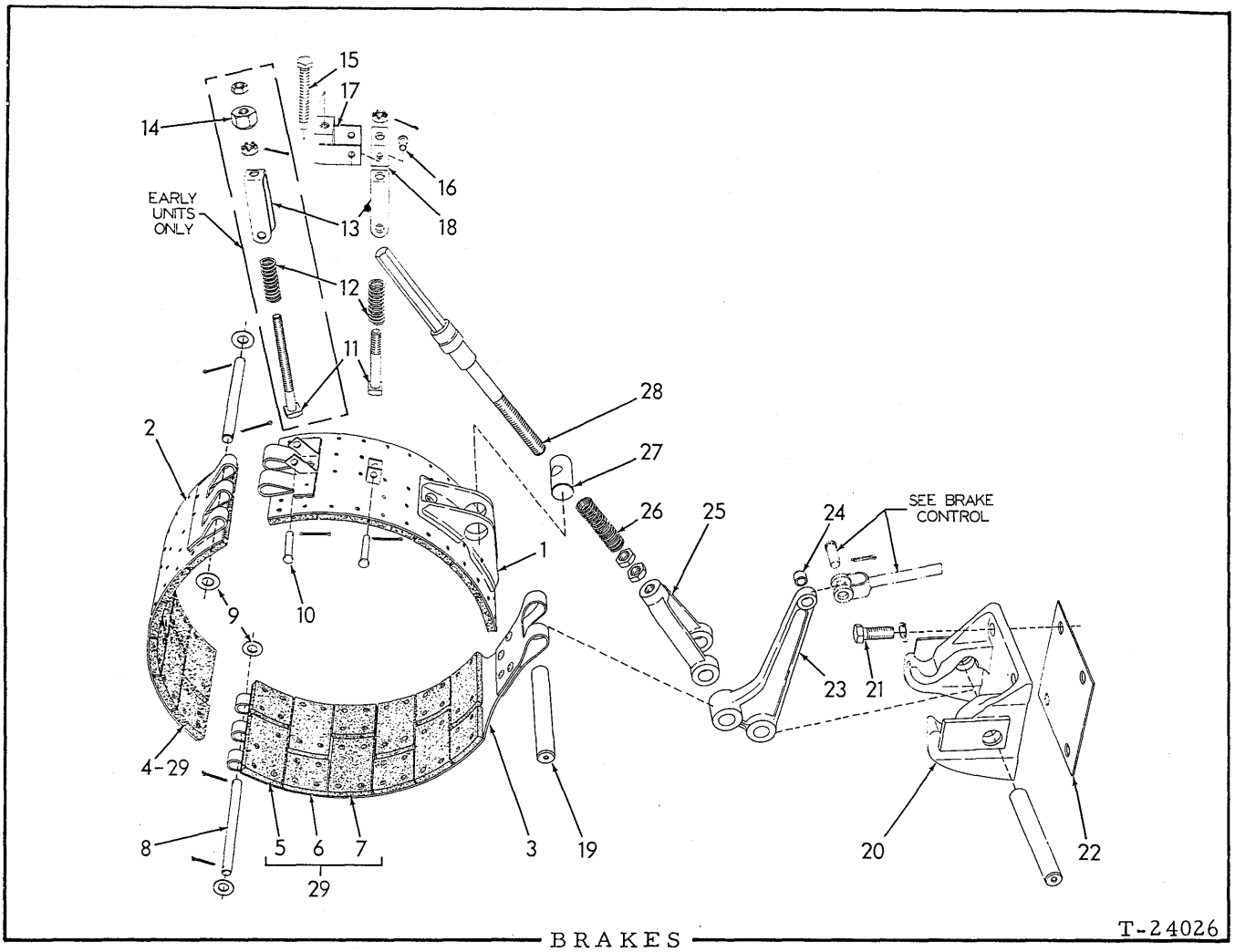

BRAKES

USAGE: Tractors serial No. 11206 thru 11521 with exception of Nos. 11426, 11481, 11491, 11495, 11497, 11498, 11499, 11500, 11503, 11504, 11506, 11507, 11510, 11511, 11513, 11514, 11515, 11517, 11518, 11520.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 097890 | 2 | BAND ASSEMBLY, bottom section (Each includes 4 LININGS 097882, 29 RIVETS 911097 and 3 RIVETS 915639) |
| 2 | 097885 | 2 | BAND ASSEMBLY, intermediate section (Each includes 4 LININGS 097882, 26 RIVETS 911097 and 6 RIVETS 915639) |
| 3 | 097891 | 2 | BAND ASSEMBLY, top section (Each includes 4 LININGS 097882, 29 RIVETS 911097 and 3 RIVETS 915639) |
| 4 | 097882 | 24 | LINING, brake band |
| | 911097 | 168 | RIVET, tubular, brass, fl-hd., 3/16" x 3/8" } See item 21 |
| | 915639 | 24 | RIVET, tubular, brass, fl-hd., 3/16" x 21/32" } |
| 5 | 099369 | 4 | PIN, band hinge |
| | 914659 | 8 | WASHER, plain, SAE std., 9/16" |
| | 900938 | 8 | PIN, cotter, 3/16" x 1" |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 6 | 097880 | 2 | PIN, band supporting yoke |
| | 900942 | 2 | PIN, cotter, 3/32" x 5/8" |
| 7 | 095493 | 4 | PIN, band end |
| 8 | 095495 | 2 | BRACKET, lever |
| 9 | 035229 | 8 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| 10 | 099429 | 2 | SHIM, lever bracket |
| 11 | 066391 | 2 | LEVER ASSEMBLY, band (Includes item 12) |
| 12 | 052669 | 2 | BUSHING, band lever |
| 13 | 097878 | 2 | YOKE, band adjusting screw |
| 14 | 098292 | 2 | SPRING, band adjusting screw |
| 15 | 099320 | 2 | PIN, swivel, band adjusting screw |
| 16 | 097896 | 2 | SCREW, band adjusting |
| | 910847 | 4 | NUT, jam, 3/4"NF |
| 17 | 095215 | 2 | BOLT, band supporting |
| | 910867 | 2 | NUT, slotted, 1/2"NF |
| | 900807 | 2 | PIN, cotter, 1/8" x 1-1/4" |
| 18 | 095214 | 2 | SPRING, band supporting |
| 19 | 095216 | 2 | YOKE, band supporting |
| 20 | 060774 | 2 | NUT, band supporting bolt |
| | 913830 | 2 | NUT, jam, 1/2"NF |
| 21 | 097922 | 2 | LINING KIT, brake band (Includes linings and attaching rivets for one (1) side only) |




BRAKES

USAGE: Tractors serial No. 11522 thru No. 12000

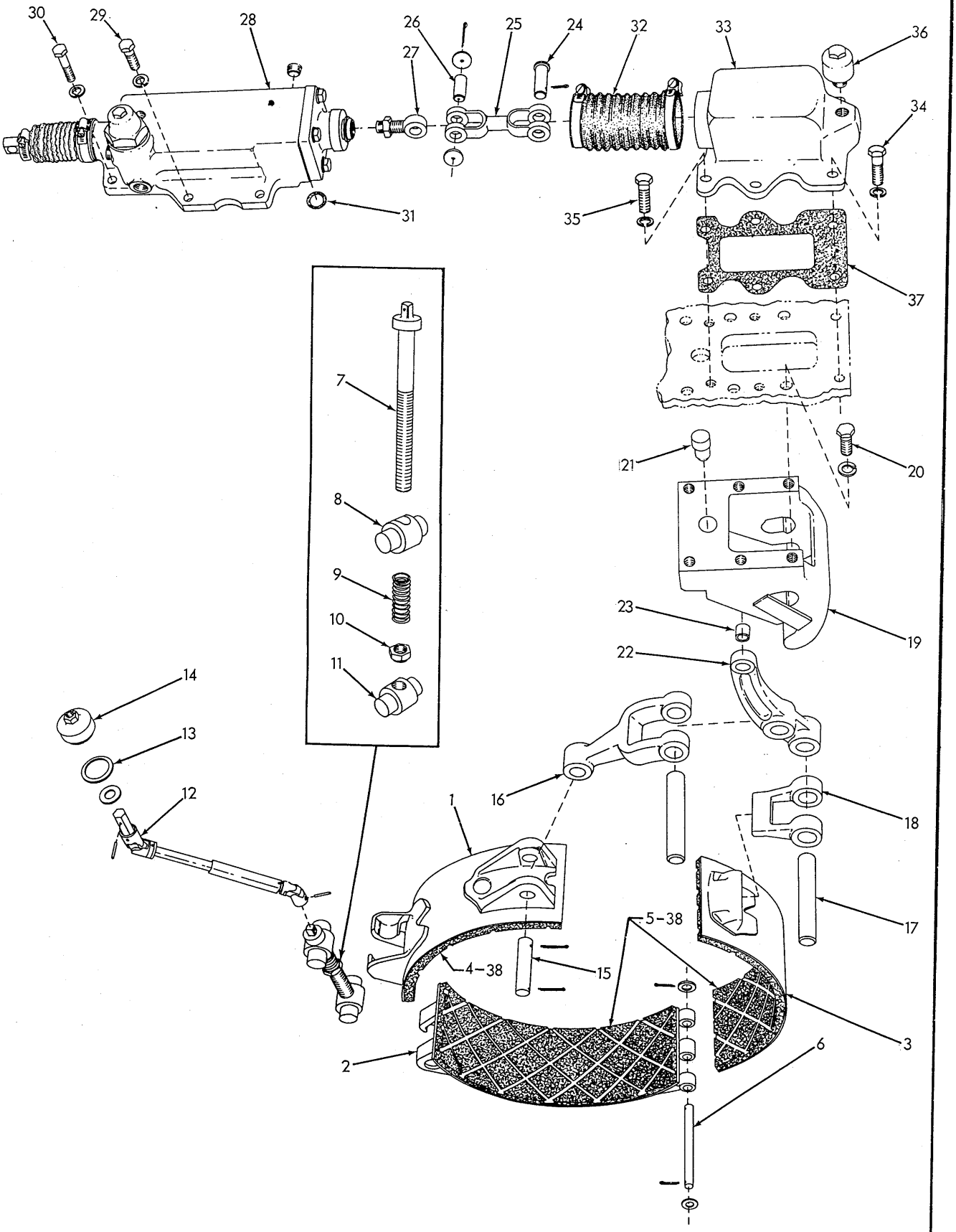
* Tractors serial No. 11522 thru 11858, including Nos. 9446 thru 9449, 11426, 11481, 11491, 11495, 11497 thru 11500, 11503, 11504, 11506, 11507, 11510, 11511, 11513, 11514, 11515, 11517, 11518, 11520; excluding Nos. 11801 thru 11806.

** Tractors serial No. 11859 thru 12000, including Nos. 11801 thru 11806; excluding Nos. 11808 and 11809

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 621291 | 2 | 2 | BAND ASSEMBLY, top section (Each includes 1 LINING 099187, 6 LININGS 099188, 5 LININGS 099189, 41 RIVETS 920218 and 7 RIVETS 920257) |
| 2 | 099186 | 2 | 2 | BAND ASSEMBLY, intermediate section (Each includes 1 LINING 099187, 5 LININGS 099188, 5 LININGS 099189, 1 LINING 099190, 44 RIVETS 920218 and 4 RIVETS 920257) |
| 3 | 099191 | 2 | 2 | BAND ASSEMBLY, bottom section (Each includes 5 LININGS 099188, 6 LININGS 099189, 1 LINING 099190, 46 RIVETS 920218 and 2 RIVETS 920257) |
| 4 | 099187 | 4 | 4 | LINING, brake band (2-5/8" long, staggered holes) } See item 29 |
| | 920218 | 12 | 12 | RIVET, tubular, steel, 3/16" x 7/16" } See item 29 |
| | 920257 | 4 | 4 | RIVET, tubular, steel, 3/16" x 23/32" } See item 29 |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 5 | 099190 | 4 | 4 | LINING, brake band (4-1/2" long, staggered holes) | See item 29 |
| | 920218 | 12 | 12 | RIVET, tubular, steel, 3/16" x 7/16" | |
| | 920257 | 4 | 4 | RIVET, tubular, steel, 3/16" x 23/32" | |
| 6 | 099189 | 32 | 32 | LINING, brake band (2-5/8" long) | |
| | 920218 | 116 | 116 | RIVET, tubular, steel, 3/16" x 7/16" | |
| | 920257 | 12 | 12 | RIVET, tubular, steel, 3/16" x 23/32" | |
| 7 | 099188 | 32 | 32 | LINING, brake band (4-1/2" long) | |
| | 920218 | 122 | 122 | RIVET, tubular, steel, 3/16" x 7/16" | |
| | 920257 | 6 | 6 | RIVET, tubular, steel, 3/16" x 23/32" | |
| 8 | 099369 | 4 | 4 | PIN, band hinge | |
| | 900938 | 8 | 8 | PIN, cotter, 3/16" x 1" | |
| 9 | 099209 | 8 | 8 | WASHER, band hinge pin | |
| 10 | 097880 | 2 | 2 | PIN, band supporting yoke | |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" | |
| 11 | 095215 | 2 | - | BOLT, band supporting | |
| | 622057 | - | 2 | BOLT, band supporting | |
| | 910867 | 2 | 2 | NUT, slotted, 1/2"NF | |
| | 900807 | 2 | 2 | PIN, cotter, 1/8" x 1-1/4" | |
| 12 | 095214 | 2 | 2 | SPRING, band supporting | |
| 13 | 095216 | 2 | - | YOKE, band supporting | |
| | 622051 | - | 2 | YOKE, band supporting | |
| 14 | 060774 | 2 | - | NUT, band supporting bolt | |
| | 913830 | 2 | - | NUT, jam, 1/2"NF | |
| 15 | 622053 | - | 2 | SCREW, band supporting adjustment | |
| 16 | 086988 | - | 4 | PIN, band supporting bracket | |
| 17 | 622054 | - | 2 | SUPPORT, top band | |
| 18 | 622052 | - | 2 | BRACKET, band supporting | |
| 19 | 095493 | 4 | 4 | PIN, band end | |
| 20 | 099427 | 2 | 2 | BRACKET, lever | |
| 21 | 012453 | 8 | 8 | CAPSCREW, 3/4"NF x 2" | |
| | 904369 | 8 | 8 | LOCKWASHER, 3/4" | |
| 22 | 099429 | 2 | 2 | SHIM, lever bracket | |
| 23 | 066391 | 2 | 2 | LEVER ASSEMBLY, band (Includes item 24) | |
| 24 | 052669 | 2 | 2 | BUSHING, band lever | |
| 25 | 097878 | 2 | 2 | YOKE, band adjusting screw | |
| 26 | 098292 | 2 | 2 | SPRING, band adjusting screw | |
| 27 | 099320 | 2 | 2 | PIN, swivel, band adjusting screw | |
| 28 | 097896 | 2 | 2 | SCREW, band adjusting | |
| | 910847 | 4 | 4 | NUT, jam, 3/4"NF | |
| 29 | 099221 | 2 | 2 | LINING KIT, brake band (Includes feramic linings and attaching rivets for one (1) side only. Original equipment) | |
| | 628713 | 2 | 2 | LINING KIT, brake band (Includes molded type linings and attaching rivets for one (1) side only. Service replacement) | |


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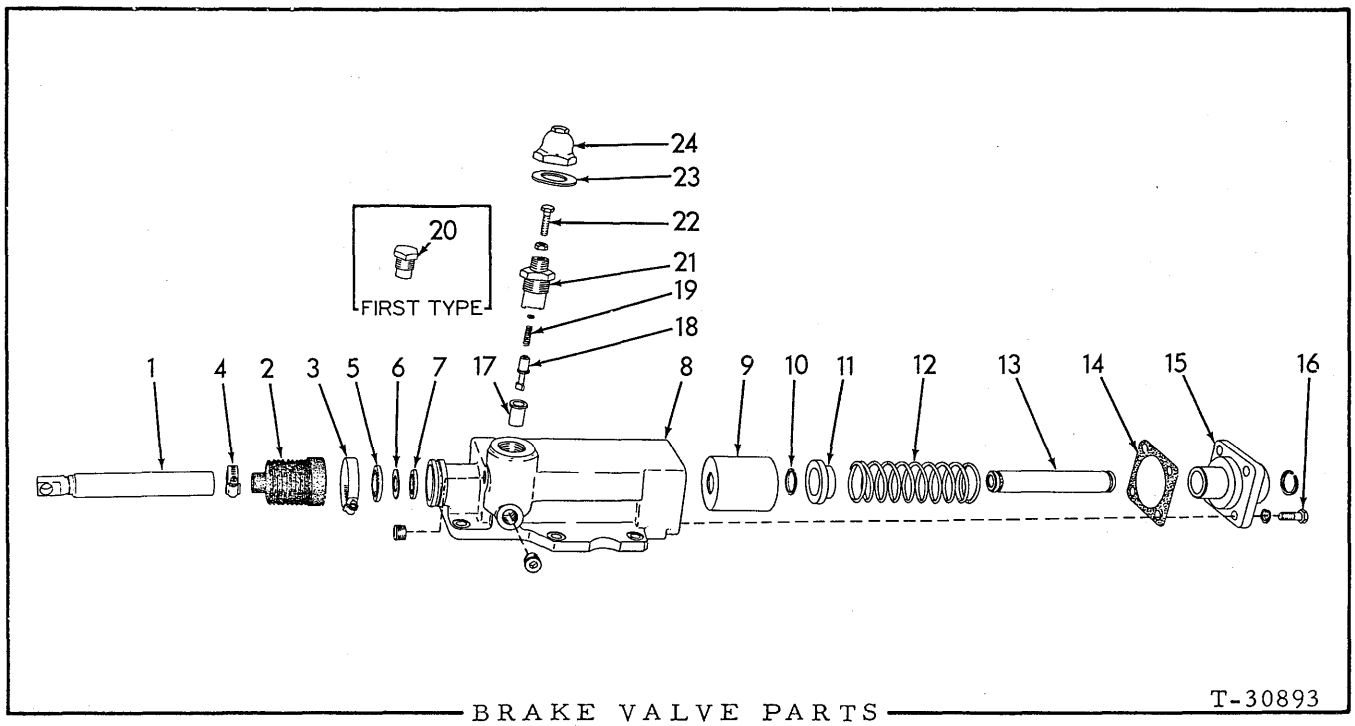
# HYDRAULIC BRAKES

USAGE: Tractors serial No. 12001 and up, including Nos. 11808 and 11809

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | 637993 | 2 | BAND ASSEMBLY, top section | Include bonded linings. Not original equipment. |
| 2 | 638002 | 2 | BAND ASSEMBLY, bottom section | |
| 3 | 637997 | 2 | BAND ASSEMBLY, rear section | |
| 4 | 623217 | 2 | LINING, top band (Original equipment. Not used with service replacement brake bands) | See item 38 |
| | 910914 | 48 | RIVET, tubular, brass, 3/16" x 1/2" | |
| 5 | 623226 | 4 | LINING, bottom and rear bands (Original equipment. Not used with service replacement brake bands) | |
| | 910914 | 132 | RIVET, tubular, brass, 3/16" x 1/2" | |
| 6 | 623130 | 2 | PIN, band hinge | |
| | 912900 | 4 | WASHER, plain, 21/32" x 1" x .109 | |
| | 900806 | 4 | PIN, cotter, 1/8" x 1" | |
| 7 | 623168 | 2 | SCREW, band adjusting | |
| 8 | 623181 | 2 | PIN, adjusting screw, upper band | |
| 9 | 623180 | 2 | SPRING, band adjusting screw | |
| 10 | 623179 | 2 | NUT, band adjusting screw | |
| 11 | 623153 | 2 | PIN, adjusting screw, bottom band | |
| 12 | 623560 | 2 | DRIVE ASSEMBLY, universal, band adjustment (Serviced only as a unit) | |
| | 921330 | 2 | PIN, roll, 7/32" x 1-1/8" (lower) | |
| | 920335 | 2 | PIN, roll, 5/32" x 1-1/8" (upper) | |
| | 910883 | 2 | WASHER, plain, 29/32" x 1-1/2" x .109 | |
| 13 | 623144 | 2 | GASKET, brake adjustment hole plug | |
| 14 | 623167 | 2 | PLUG, brake adjustment hole | |
| 15 | 623132 | 2 | PIN, top band | |
| | 900808 | 4 | PIN, cotter, 1/8" x 1-1/2" | |
| 16 | 623133 | 2 | YOKE, brake band, upper | |
| 17 | 623131 | 4 | PIN, band yoke | |
| 18 | 623158 | 2 | YOKE, brake band, lower | |
| 19 | 623182 | 2 | BRACKET ASSEMBLY, band lever (Includes item 21) | |
| 20 | 023465 | 12 | CAPSCREW, 5/8"NF x 1-3/4" | |
| | 904209 | 12 | LOCKWASHER, 5/8" | |
| 21 | 643740 | 2 | PIN, dowel, band lever bracket | |
| 22 | 623165 | 2 | LEVER ASSEMBLY, band operating (Includes item 23) | |
| 23 | 623164 | 2 | BUSHING, band operating lever | |
| 24 | 623139 | 2 | PIN, connecting rod, rear | |
| | 910302 | 2 | PIN, cotter, 5/32" x 1-1/4" | |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 25 | 623140 | 2 | ROD, connecting |
| 26 | 623141 | 2 | PIN, connecting rod, front (Original equipment) |
| | 919761 | 2 | PIN, roll, 1/8" x 1-1/4" |
| | 637729 | 2 | •PIN, connecting rod, front (Service replacement) |
| | 904003 | 2 | PIN, cotter, 1/8" x 2-1/4" |
| | 637730 | 4 | WASHER, plain |
| 27 | 623142 | 2 | EYE, connecting (Original equipment) |
| | 638818 | 2 | EYE, connecting (Service replacement) |
| | 910847 | 2 | NUT, jam, 3/4"NF |
| 28 | 623213 | 2 | VALVE ASSEMBLY, brake operating (See page 383 for parts) (Original equipment. Order VALVE ASSEMBLY 638600) |
| | 638600 | 2 | VALVE ASSEMBLY, brake operating (See page 383 for parts) (Service replacement) |
| | 908944 | 1 | PLUG, pipe, hex-socket, 1/2"NPT (left valve) |
| 29 | 035073 | 8 | CAPSCREW, 1/2"NF x 1-3/4" |
| 30 | 035892 | 4 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 31 | 923575 | 2 | O-RING, valve discharge port |
| 32 | 623138 | 2 | BOOT, connecting |
| | 921914 | 4 | CLAMP, hose, 2-5/16" x 3-1/4" diam. |
| 33 | 623137 | 2 | COVER, band linkage |
| 34 | 035067 | 4 | CAPSCREW, 1/2"NF x 2" |
| 35 | 070467 | 8 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 36 | 622207 | 2 | BREATHER, clutch compartment |
| 37 | 623136 | 2 | GASKET, band linkage cover |
| 38 | 627326 | 2 | LINING KIT, brake band (Includes linings and attaching rivets for one (1) side only; items 4 and 5) |



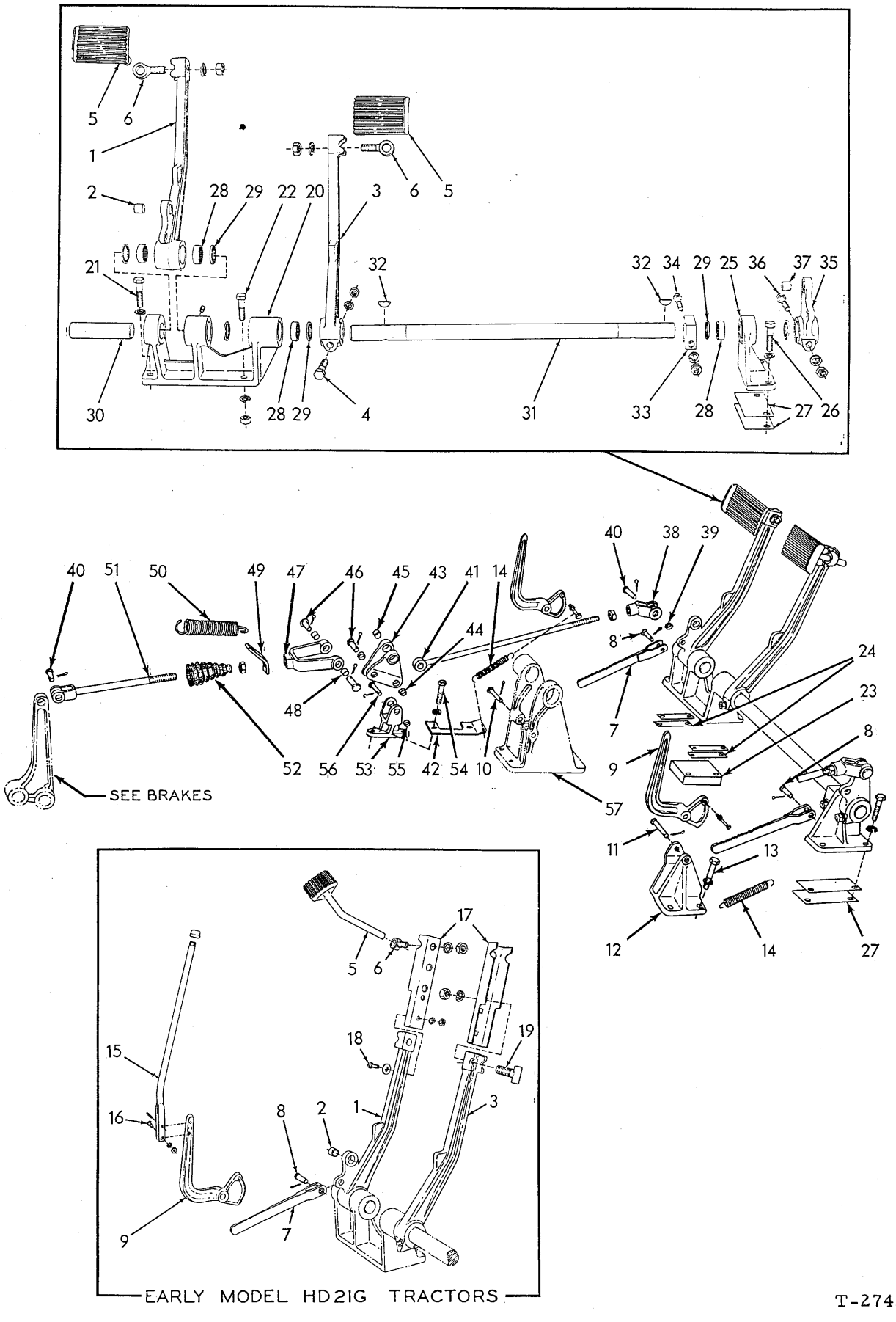

BRAKE VALVE PARTS

# BRAKE VALVE PARTS

USAGE: See page 381

* 623213 VALVE ASSEMBLY
** 638600 VALVE ASSEMBLY

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| | | | | NOTE: All quantities indicated are for one (1) Valve Assembly only |
| 1 | 623194 | 1 | 1 | SPOOL, valve |
| 2 | 623195 | 1 | 1 | BOOT, valve spool |
| 3 | 921913 | 1 | 1 | CLAMP, hose, 1-13/16" to 2-3/4" diam. |
| 4 | 921912 | 1 | 1 | CLAMP, hose, 1-1/16" to 2" diam. |
| 5 | 623197 | 1 | 1 | SEAL, outer |
| 6 | 623489 | 1 | 1 | WASHER, back-up, inner seal (vellumoid) |
| 7 | 623198 | 1 | 1 | SEAL, inner |
| 8 | 623202 | 1 | 1 | HOUSING |
| | 908944 | 2 | 2 | PLUG, pipe, hex-socket, 1/2"NPT |
| 9 | 623201 | 1 | 1 | PISTON ASSEMBLY (Includes fulcrum pin) |
| 10 | 623206 | 2 | 2 | RING, snap, actuating rod |
| 11 | 623203 | 1 | 1 | RETAINER, actuating rod spring |
| 12 | 623204 | 1 | 1 | SPRING, actuating rod |
| 13 | 623207 | 1 | 1 | ROD, actuating |
| 14 | 623196 | 1 | 1 | GASKET, actuating rod retainer |
| 15 | 623205 | 1 | 1 | RETAINER, actuating rod |
| 16 | 614478 | 4 | 4 | CAPSCREW, 1/2"NF x 1-3/8" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 17 | 623211 | 1 | 1 | SEAT, relief valve |
| 18 | 628019 | 1 | 1 | VALVE, relief |
| 19 | 623210 | 1 | 1 | SPRING, relief valve |
| | 911982 | 4 | 1 | WASHER, plain |
| 20 | 623209 | 1 | - | CAP, relief valve |
| 21 | 638563 | - | 1 | CAP, relief valve |
| 22 | 638561 | - | 1 | CAPSCREW, pressure adjustment |
| | 911048 | - | 1 | NUT, jam, 3/8"NF |
| 23 | 641148 | - | 1 | GASKET, cap |
| 24 | 638562 | - | 1 | CAP, pressure adjustment screw |




BRAKE CONTROL (First type)

# BRAKE CONTROL

USAGE: Tractors prior to serial No. 12001, excluding Nos. 11808 and 11809

* Models HD21A, F; also Model HD21G prior to tractor serial No. 9027
** Model HD21G tractors serial No. 9027 thru No. 11724, including No. 11798
*** Model HD21G effective with tractor serial No. 11725 excluding No. 11798

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 058064 | 1 | - | - | LEVER ASSEMBLY, pedal, left (Includes item 2) |
| | 094545 | - | 1 | - | LEVER ASSEMBLY, pedal, left (Includes item 2) |
| | 622558 | - | - | 1 | LEVER ASSEMBLY, pedal, left (Includes item 2) |
| 2 | 052669 | 1 | 1 | 1 | BUSHING, left pedal lever |
| 3 | 058077 | 1 | - | - | LEVER, pedal, right |
| | 094530 | - | 1 | - | LEVER, pedal, right |
| | 622564 | - | - | 1 | LEVER, pedal, right |
| 4 | 035278 | 1 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 5 | 050434 | 2 | - | - | PAD, pedal lever (Model HD21A, F tractors only prior to #11682) |
| | 623151 | 2 | - | - | PAD, pedal lever (Model HD21A, F tractors only effective with #11682) |
| | 090395 | 1 | 1 | - | PAD, left pedal lever } Model HD21G only |
| | 090396 | 1 | 1 | - | PAD, right pedal lever } Model HD21G only |
| | 623151 | - | - | 2 | PAD, pedal lever |
| 6 | 050433 | 2 | 2 | 2 | BOLT, eye, pedal lever pad |
| | 904209 | 2 | 2 | 2 | LOCKWASHER, 5/8" |
| | 911044 | 2 | 2 | 2 | NUT, 5/8"NF |
| 7 | 051288 | 2 | 2 | - | BAR, parking brake lock |
| | 622624 | - | - | 2 | BAR, parking brake lock |
| 8 | 049993 | 2 | 2 | 2 | PIN, parking brake lock bar |
| | 900805 | 2 | 2 | 2 | PIN, cotter, 1/8" x 3/4" |
| 9 | 058073 | 2 | - | - | LOCK, parking brake |
| | 093024 | - | 2 | - | LOCK, parking brake |
| | 622528 | - | - | 2 | LOCK, parking brake |
| | 903774 | 2 | 2 | 2 | CAPSCREW, 5/16"NC x 2" |
| | 906652 | 2 | 2 | 2 | NUT, jam, 5/16"NC |
| 10 | 058356 | 1 | 1 | 1 | PIN, left parking brake lock (4" long) |
| | 900805 | 1 | 1 | 1 | PIN, cotter, 1/8" x 3/4" |
| 11 | 053077 | 1 | 1 | 1 | PIN, right parking brake lock (2- 3/4" long) |
| | 900805 | 1 | 1 | 1 | PIN, cotter, 1/8" x 3/4" |

(Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 12 | 058074 | 1 | 1 | - | BRACKET, right parking brake lock |
| | 622603 | - | - | 1 | BRACKET, right parking brake lock |
| 13 | 035067 | 2 | 2 | - | CAPSCREW, 1/2"NF x 2" (Not for HD21F) |
| | 070403 | 2 | - | - | CAPSCREW, 1/2"NF x 3" (Model HD21F only) |
| | 035073 | - | - | 2 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | - | - | 2 | NUT, 1/2"NF |
| 14 | 072438 | 2 | 2 | 2 | SPRING, parking brake lock |
| 15 | 094409 | - | 2 | - | EXTENSION, parking brake lock |
| | 901751 | - | 2 | - | CAP, pipe, 1/4"NPT |
| | 916001 | - | 2 | - | PIN, roll, 3/16" x 1" |
| 16 | 054304 | - | 2 | - | CAPSCREW, 1/4"NC x 1-1/4" |
| | 904204 | - | 2 | - | LOCKWASHER, 1/4" |
| | 911024 | - | 2 | - | NUT, 1/4"NC |
| 17 | 094478 | - | 2 | - | CHANNEL, extension, pedal lever |
| 18 | 203188 | - | 2 | - | CAPSCREW, 3/8"NF x 1-1/2" |
| | 911115 | - | 2 | - | WASHER, plain, SAE std., 3/8" |
| | 904206 | - | 2 | - | LOCKWASHER, 3/8" |
| | 911041 | - | 2 | - | NUT, 3/8"NF |
| 19 | 094477 | - | 2 | - | STUD, channel attaching |
| | 904209 | - | 2 | - | LOCKWASHER, 5/8" |
| | 911044 | - | 2 | - | NUT, 5/8"NF |
| 20 | 622656 | 1 | 1 | 1 | BRACKET, pedal shaft, left |
| 21 | 035067 | 2 | 2 | - | CAPSCREW, 1/2"NF x 2" (Not for Model HD21F) |
| | 070403 | 2 | - | - | CAPSCREW, 1/2"NF x 3" (Model HD21F only) |
| | 035892 | - | - | 2 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| 22 | 035073 | 2 | 2 | - | CAPSCREW, 1/2"NF x 1-3/4" (Not for Model HD21F) |
| | 035278 | 2 | - | - | CAPSCREW, 1/2"NF x 2-3/4" (Model HD21F only) |
| | 035067 | - | - | 2 | CAPSCREW, 1/2"NF x 2" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | 2 | NUT, 1/2"NF |
| 23 | 074041 | 1 | - | - | PLATE, spacing, pedal shaft left bracket (1" thick) (Model HD21F only) |
| | 622611 | - | - | 1 | PLATE, spacing, pedal shaft left bracket (1/4" thick) |
| | 622604 | - | - | 1 | PLATE, spacing, pedal shaft right bracket (1/4" thick) |
| 24 | 077304 | 4 | - | - | SHIM, bracket spacing (1/32" thick. Use as req'd) (Model HD21F only) |
| 25 | 058273 | 1 | 1 | 1 | BRACKET, pedal shaft, right |
| 26 | 035067 | 2 | 2 | - | CAPSCREW, 1/2"NF x 2" (Not for Model HD21F) |
| | 070403 | 2 | - | - | CAPSCREW, 1/2"NF x 3" (Model HD21F only) |
| | 035892 | - | - | 2 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| 27 | 053278 | 2 | 2 | 2 | SHIM, right pedal shaft bracket (Use as req'd) |
| 28 | 053244 | 4 | 4 | 4 | BEARING, needle, pedal shafts |
| 29 | 053243 | 6 | 6 | 6 | SEAL, dust, pedal shafts |

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## BRAKE CONTROL (Continued)

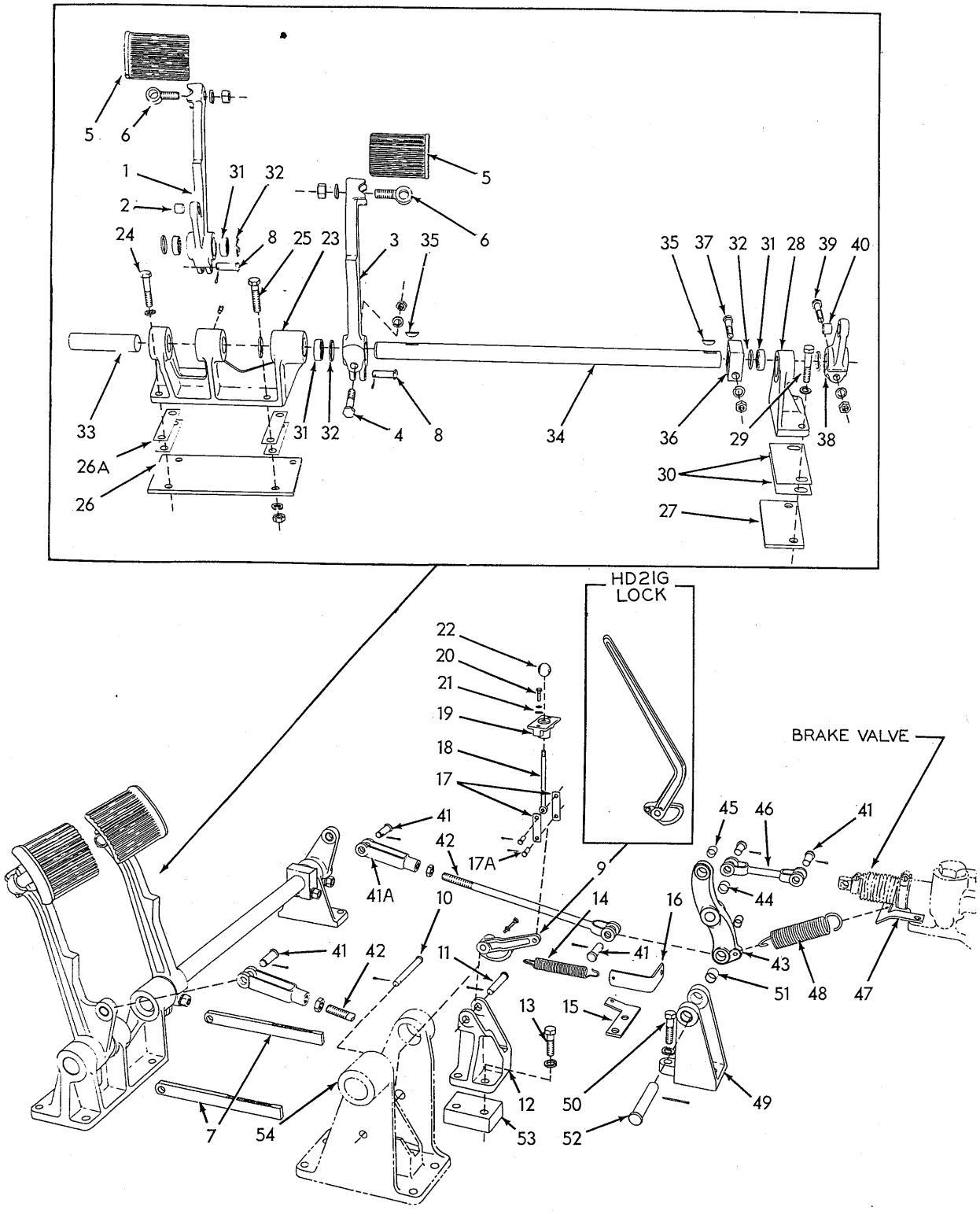
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 30 | 052656 | 1 | 1 | 1 | SHAFT, left pedal |
| | 903093 | 1 | 1 | 1 | SETSCREW, slotted-hd., cup-pt., 3/8"NC x 5/8" |
| 31 | 052660 | 1 | 1 | 1 | SHAFT, right pedal |
| 32 | 036997 | 2 | 2 | 2 | KEY, #13 woodruff, 3/16" x 1" |
| 33 | 052639 | 1 | 1 | 1 | COLLAR, right pedal shaft |
| 34 | 035278 | 1 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 35 | 058066 | 1 | 1 | - | LEVER ASSEMBLY, right pedal shaft (Includes item 37) |
| | 622598 | - | - | 1 | LEVER ASSEMBLY, right pedal shaft (Includes item 37) |
| 36 | 035278 | 1 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 37 | 052669 | 1 | 1 | 1 | BUSHING, pedal shaft lever |
| 38 | 066399 | 2 | 2 | 2 | YOKE ASSEMBLY, front rod (Includes item 39) |
| 39 | 096142 | 4 | 4 | 4 | BUSHING, front rod yoke |
| 40 | 052671 | 4 | 4 | 4 | PIN, rod |
| | 900806 | 4 | 4 | 4 | PIN, cotter, 1/8" x 1" |
| 41 | 076800 | 2 | 2 | - | ROD, front (Used prior to tractor #11522, excluding #9446 thru 9449, 11426, 11481, 11491, 11495, 11497 thru 11500, 11503, 11504, 11506, 11507, 11510, 11511, 11513, 11514, 11515, 11517, 11518 and 11520) |
| | 099211 | 2 | 2 | 2 | ROD, front (Effective with tractor #11522, including #9446 thru 9449, 11426, 11481, 11491, 11495, 11497 thru 11500, 11503, 11504, 11506, 11507, 11510, 11511, 11513, 11514, 11515, 11517, 11518, 11520) |
| | 911044 | 2 | 2 | 2 | NUT, 5/8"NF |
| 42 | 621930 | 1 | 1 | 1 | CLIP, attaching, left parking brake lock spring |
| | 622601 | - | - | 1 | CLIP, attaching, right parking brake lock spring (Not illustrated) |
| 43 | 066395 | 2 | 2 | 2 | BELLCRANK ASSEMBLY, rod (Includes items 44 and 45) |
| 44 | 096142 | 8 | 8 | 8 | BUSHING, bellcrank (steel, 5/16" long) |
| 45 | 052669 | 4 | 4 | 4 | BUSHING, bellcrank (steel, 5/8" long) |
| 46 | 052671 | 6 | 6 | 6 | PIN, rod |
| | 900806 | 6 | 6 | 6 | PIN, cotter, 1/8" x 1" |
| 47 | 066397 | 2 | 2 | 2 | YOKE ASSEMBLY, rear rod (Includes item 48) |
| 48 | 052669 | 4 | 4 | 4 | BUSHING, rear rod yoke (steel) |

(Continued)

## BRAKE CONTROL (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 49 | 082834 | 2 | 2 | 2 | CLIP, attaching, rod spring |
| 50 | 624057 | 2 | 2 | 2 | SPRING, rod |
| 51 | 076798 | 2 | 2 | - | ROD, rear (11-1/2" long) (Used prior to tractor #11522, excluding #9446 thru 9449, 11426, 11481, 11491, 11495, 11497 thru 11500, 11503, 11504, 11506, 11507, 11510, 11511, 11513, 11514, 11515, 11517, 11518 and 11520) |
| | 099210 | 2 | 2 | - | ROD, rear (12-1/2" long) (Effective with tractor #11522, including #9446 thru 9449, 11426, 11481, 11491, 11495, 11497 thru 11500, 11503, 11504, 11506, 11507, 11510, 11511, 11513, 11514, 11515, 11517, 11518 and 11520) |
| | 076798 | - | - | 2 | ROD, rear |
| | 911044 | 2 | 2 | 2 | NUT, 5/8"NF |
| 52 | 078908 | 2 | 2 | 2 | BOOT, rod (rubber) |
| 53 | 066393 | 2 | 2 | 2 | BRACKET ASSEMBLY, bellcrank pivot (Includes item 55) |
| 54 | 035067 | 4 | 4 | 4 | CAPSCREW, 1/2"NF x 2" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| 55 | 096142 | 4 | 4 | 4 | BUSHING, bellcrank pivot bracket (steel) |
| 56 | 066418 | 2 | 2 | 2 | PIN, bellcrank pivot bracket |
| | 900806 | 2 | 2 | 2 | PIN, cotter, 1/8" x 1" |
| 57 | ------ | 1 | 1 | 1 | BRACKET (See ENGINE CLUTCH CONTROL) |

MEMO




BRAKE CONTROL (Second type)

# BRAKE CONTROL

USAGE: Tractors serial No. 12001 and up, including Nos. 11808 and 11809. Not used on Models HD21A,G tractors serial No. 12278 and up, including Nos. 12187, 12210, 12231, 12245, 12259 and 12271

* Model HD21A
** Model HD21F
*** Model HD21G

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 623156 | 1 | 1 | - | LEVER ASSEMBLY, pedal, left (Includes item 2) |
| | 622558 | - | - | 1 | LEVER ASSEMBLY, pedal, left (Includes item 2) |
| 2 | 052669 | 1 | 1 | 1 | BUSHING, left pedal lever |
| 3 | 623152 | 1 | 1 | - | LEVER, pedal, right |
| | 622564 | - | - | 1 | LEVER, pedal, right |
| 4 | 035278 | 1 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 5 | 623151 | 2 | 2 | 2 | PAD, pedal lever |
| 6 | 050433 | 2 | 2 | 2 | BOLT, eye, pedal lever pad |
| | 904209 | 2 | 2 | 2 | LOCKWASHER, 5/8" |
| | 911044 | 2 | 2 | 2 | NUT, 5/8"NF |
| 7 | 622624 | 2 | 2 | 2 | BAR, parking brake lock |
| 8 | 049993 | 2 | 2 | 2 | PIN, parking brake lock bar |
| | 900805 | 2 | 2 | 2 | PIN, cotter, 1/8" x 3/4" |
| 9 | 623150 | 2 | 2 | - | LOCK, parking brake |
| | 622528 | - | - | 2 | LOCK, parking brake |
| | 905665 | 2 | 2 | 2 | CAPSCREW, 5/16"NC x 2-1/4" |
| | 906652 | 2 | 2 | 2 | NUT, jam, 5/16"NC |
| 10 | 058356 | 1 | 1 | 1 | PIN, left parking brake lock (4" long) |
| | 900805 | 1 | 1 | 1 | PIN, cotter, 1/8" x 3/4" |
| 11 | 053077 | 1 | 1 | 1 | PIN, right parking brake lock (2-3/4" long) |
| | 900805 | 1 | 1 | 1 | PIN, cotter, 1/8" x 3/4" |
| 12 | 622603 | 1 | 2 | 1 | BRACKET, right parking brake lock |
| 13 | 035073 | 2 | - | 2 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 070403 | - | 2 | - | CAPSCREW, 1/2"NF x 3" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | 2 | NUT, 1/2"NF |
| 14 | 607229 | 2 | 2 | 2 | SPRING, parking brake lock |
| 15 | 623148 | 1 | 1 | 1 | CLIP, attaching, left parking brake lock spring |
| 16 | 622601 | 1 | 1 | 1 | CLIP, attaching, right parking brake lock spring |
| 17 | 623143 | 4 | 4 | - | LINK, parking brake lock |
| 17A | 078810 | 4 | 4 | - | PIN, parking brake link |
| | 900801 | 4 | 4 | - | PIN, cotter, 3/32" x 3/4" |

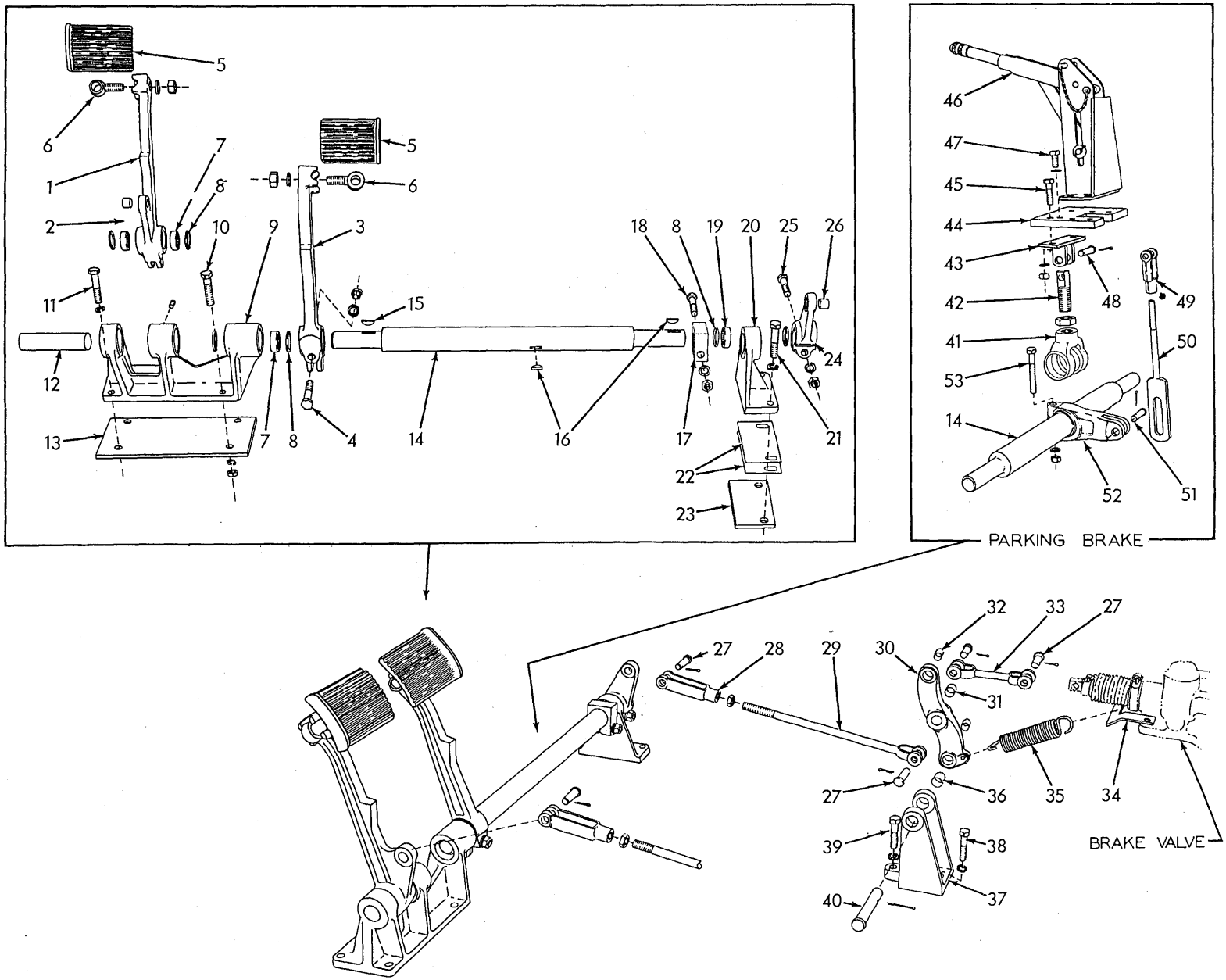
(Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 18 | 623154 | 2 | 2 | - | ROD, parking brake lock |
| 19 | 623129 | 2 | - | - | GUIDE, parking brake lock |
| | 623273 | - | 2 | - | GUIDE, parking brake lock |
| 20 | 036034 | 4 | 4 | - | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 4 | 4 | - | LOCKWASHER, 3/8" |
| 21 | 044973 | 4 | 4 | - | WASHER, plain |
| 22 | 091855 | 2 | 2 | - | KNOB, parking brake lock |
| 23 | 622656 | 1 | 1 | 1 | BRACKET, pedal shaft, left |
| 24 | 035892 | 2 | - | 2 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 070403 | - | 2 | - | CAPSCREW, 1/2"NF x 3" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| 25 | 035067 | 2 | - | 2 | CAPSCREW, 1/2"NF x 2" |
| | 070403 | - | 2 | - | CAPSCREW, 1/2"NF x 3" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | 2 | NUT, 1/2"NF |
| 26 | 622611 | 1 | 1 | 1 | PLATE, spacing, pedal shaft left bracket (1/4" thick) |
| | 074041 | - | 1 | - | PLATE, spacing, pedal shaft left bracket (1" thick) |
| 26A | 077304 | - | 4 | - | SHIM, bracket spacing (1/32" thick. Use as req'd) |
| 27 | 622604 | 1 | 1 | 1 | PLATE, spacing, pedal shaft right bracket (1/4" thick) |
| 28 | 058273 | 1 | 1 | 1 | BRACKET, pedal shaft, right |
| 29 | 035892 | 2 | - | 2 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 070403 | - | 2 | - | CAPSCREW, 1/2"NF x 3" |
| | 904208 | 2 | 2 | 2 | LOCKWASHER, 1/2" |
| 30 | 053278 | 2 | 2 | 2 | SHIM, right pedal shaft bracket (Use as req'd) |
| 31 | 053244 | 4 | 4 | 4 | BEARING, needle, pedal shafts |
| 32 | 053243 | 6 | 6 | 6 | SEAL, dust, pedal shafts |
| 33 | 052656 | 1 | 1 | 1 | SHAFT, left pedal |
| | 903093 | 1 | 1 | 1 | SETSCREW, slotted-hd., cup-pt., 3/8"NC x 5/8" |
| 34 | 052660 | 1 | 1 | 1 | SHAFT, right pedal |
| 35 | 036997 | 2 | 2 | 2 | KEY, #13 woodruff, 3/16" x 1" |
| 36 | 052639 | 1 | 1 | 1 | COLLAR, right pedal shaft |
| 37 | 035278 | 1 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 38 | 622598 | 1 | 1 | 1 | LEVER ASSEMBLY, right pedal shaft (Includes item 40) |
| 39 | 035278 | 1 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | 1 | NUT, 1/2"NF |
| 40 | 052669 | 1 | 1 | 1 | BUSHING, pedal shaft lever |

(Continued)

## BRAKE CONTROL (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 41 | 052671 | 8 | 8 | 8 | PIN, brake rods |
| | 900806 | 8 | 8 | 8 | PIN, cotter, 1/8" x 1" |
| 41A | 628730 | 2 | 2 | 2 | YOKE, front rod |
| 42 | 623149 | 2 | 2 | 2 | ROD, front |
| | 911049 | 2 | 2 | 2 | NUT, jam, 5/8"NF |
| 43 | 631945 | 2 | 2 | 2 | LEVER ASSEMBLY, rocker (Includes items 44 and 45) |
| 44 | 623164 | 4 | 4 | 4 | BUSHING, rocker lever, center |
| 45 | 052669 | 4 | 4 | 4 | BUSHING, rocker lever, end |
| 46 | 623146 | 2 | 2 | 2 | ROD, rear |
| 47 | 623145 | 2 | 2 | 2 | CLIP, retracting spring |
| 48 | 624057 | 2 | 2 | 2 | SPRING, retracting |
| 49 | 623193 | 2 | 2 | 2 | BRACKET ASSEMBLY, rocker lever (Includes item 51) |
| 50 | 035067 | 4 | 4 | 4 | CAPSCREW, 1/2"NF x 2" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| 51 | 623164 | 4 | 4 | 4 | BUSHING, rocker lever bracket |
| 52 | 623147 | 2 | 2 | 2 | PIN, rocker lever bracket |
| | 910302 | 2 | 2 | 2 | PIN, cotter, 5/32" x 1-1/4" |
| 53 | 623066 | - | 1 | - | PLATE, spacing, right parking brake bracket |
| 54 | ------ | 1 | 1 | 1 | BRACKET (See ENGINE CLUTCH CONTROL) |




BRAKE CONTROL (Third type)

# BRAKE CONTROL

USAGE: Model HD21A, G tractors serial No. 12278 and up, including Nos. 12187, 12210, 12231, 12245, 12259 and 12271

* Model HD21A
** Model HD21G

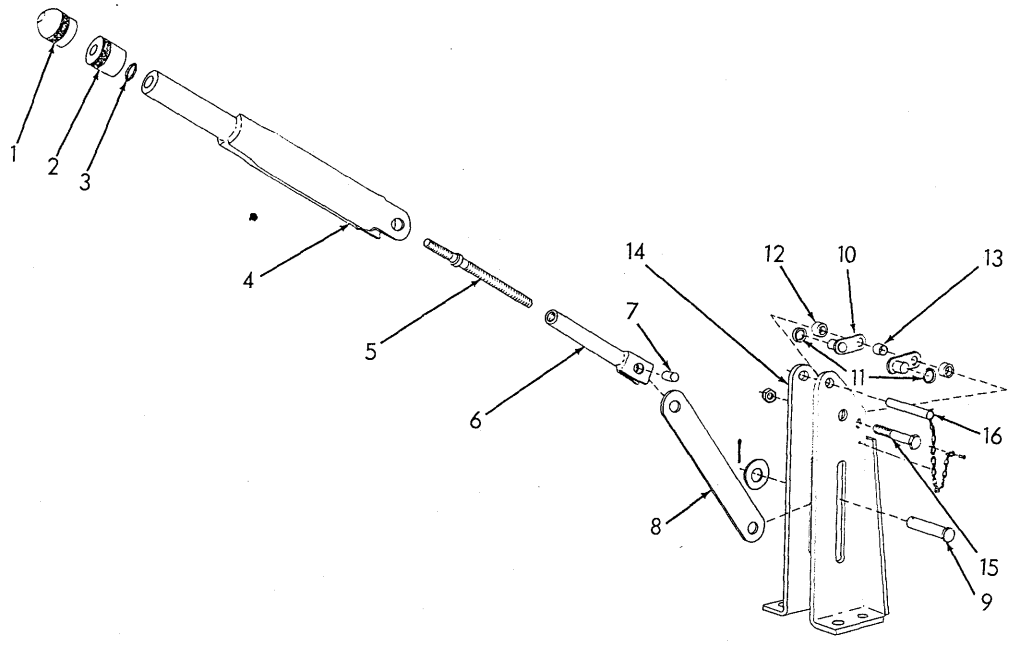
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 623156 | 1 | - | LEVER ASSEMBLY, pedal, left (Includes item 2) |
| | 622558 | - | 1 | LEVER ASSEMBLY, pedal, left (Includes item 2) |
| 2 | 052669 | 1 | 1 | BUSHING, left pedal lever |
| 3 | 623152 | 1 | - | LEVER, pedal, right |
| | 622564 | - | 1 | LEVER, pedal, right |
| 4 | 035278 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 5 | 623151 | 2 | 2 | PAD, pedal lever |
| 6 | 050433 | 2 | 2 | BOLT, eye, pedal lever pad |
| | 904209 | 2 | 2 | LOCKWASHER, 5/8" |
| | 911044 | 2 | 2 | NUT, 5/8"NF |
| 7 | 053244 | 3 | 3 | BEARING, needle, pedal shafts (1/2" wide) |
| 8 | 053243 | 6 | 6 | SEAL, dust, pedal shafts |
| 9 | 622656 | 1 | 1 | BRACKET, pedal shaft, left |
| 10 | 035067 | 2 | 2 | CAPSCREW, 1/2"NF x 2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | NUT, 1/2"NF |
| 11 | 035892 | 2 | 2 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| 12 | 052656 | 1 | 1 | SHAFT, left pedal |
| | 903093 | 1 | 1 | SETSCREW, slotted-hd., cup-pt., 3/8"NC x 5/8" |
| 13 | 622611 | 1 | 1 | PLATE, spacing, pedal shaft left bracket |
| 14 | 631952 | 1 | 1 | SHAFT, right pedal |
| 15 | 036997 | 1 | 1 | KEY, right pedal (3/16"x 1") |
| 16 | 631883 | 2 | 2 | KEY, right pedal shaft (1/4" x 1-1/4") |
| 17 | 052639 | 1 | 1 | COLLAR, right pedal shaft |
| 18 | 035278 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 19 | 052642 | 1 | 1 | BEARING, needle, right pedal shaft (3/4" wide) |
| 20 | 058273 | 1 | 1 | BRACKET, pedal shaft, right |
| 21 | 035892 | 2 | 2 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| 22 | 053278 | 2 | 2 | SHIM, right pedal shaft bracket (Use as req'd) |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 23 | 622604 | 1 | 1 | PLATE, spacing, pedal shaft right bracket (1/4" thick) |
| 24 | 631940 | 1 | 1 | LEVER ASSEMBLY, right pedal shaft (Includes item 26) |
| 25 | 035278 | 1 | 1 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 26 | 052669 | 1 | 1 | BUSHING, pedal shaft lever |
| 27 | 052671 | 8 | 8 | PIN, brake rods |
| | 900806 | 8 | 8 | PIN, cotter, 1/8" x 1" |
| 28 | 628730 | 2 | 2 | YOKE, front rod |
| | 911049 | 2 | 2 | NUT, jam, 5/8"NF |
| 29 | 623149 | 2 | 2 | ROD, front |
| 30 | 631945 | 2 | 2 | LEVER ASSEMBLY, rocker (Includes items 31 and 32) |
| 31 | 623164 | 4 | 4 | BUSHING, rocker lever, center |
| 32 | 052669 | 4 | 4 | BUSHING, rocker lever, end |
| 33 | 623146 | 2 | 2 | ROD, rear |
| 34 | 623145 | 2 | 2 | CLIP, retracting spring |
| 35 | 624057 | 2 | 2 | SPRING, retracting |
| 36 | 623164 | 4 | 4 | BUSHING, rocker lever bracket |
| 37 | 631943 | 2 | 2 | BRACKET ASSEMBLY, rocker lever (Includes item 36) |
| 38 | 035229 | 2 | 2 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 2 | 2 | LOCKWASHER, 5/8" |
| 39 | 035067 | 2 | 2 | CAPSCREW, 1/2"NF x 2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| 40 | 623147 | 2 | 2 | PIN, rocker lever bracket |
| | 910302 | 2 | 2 | PIN, cotter, 5/32" x 1-1/4" |
| 41 | 631881 | 1 | 1 | YOKE, shaft bracing |
| 42 | 631937 | 1 | - | EYE, shaft bracing yoke (3-1/2" long) |
| | 638339 | - | 1 | EYE, shaft bracing yoke (8-3/8" long) |
| | 911051 | 1 | 1 | NUT, jam, 1"NF |
| 43 | 631951 | 1 | 1 | BRACKET, bracing yoke eye |
| 44 | 631938 | 1 | 1 | PLATE, mounting, parking brake lever |
| 45 | 035073 | 2 | 2 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | NUT, 1/2"NF |

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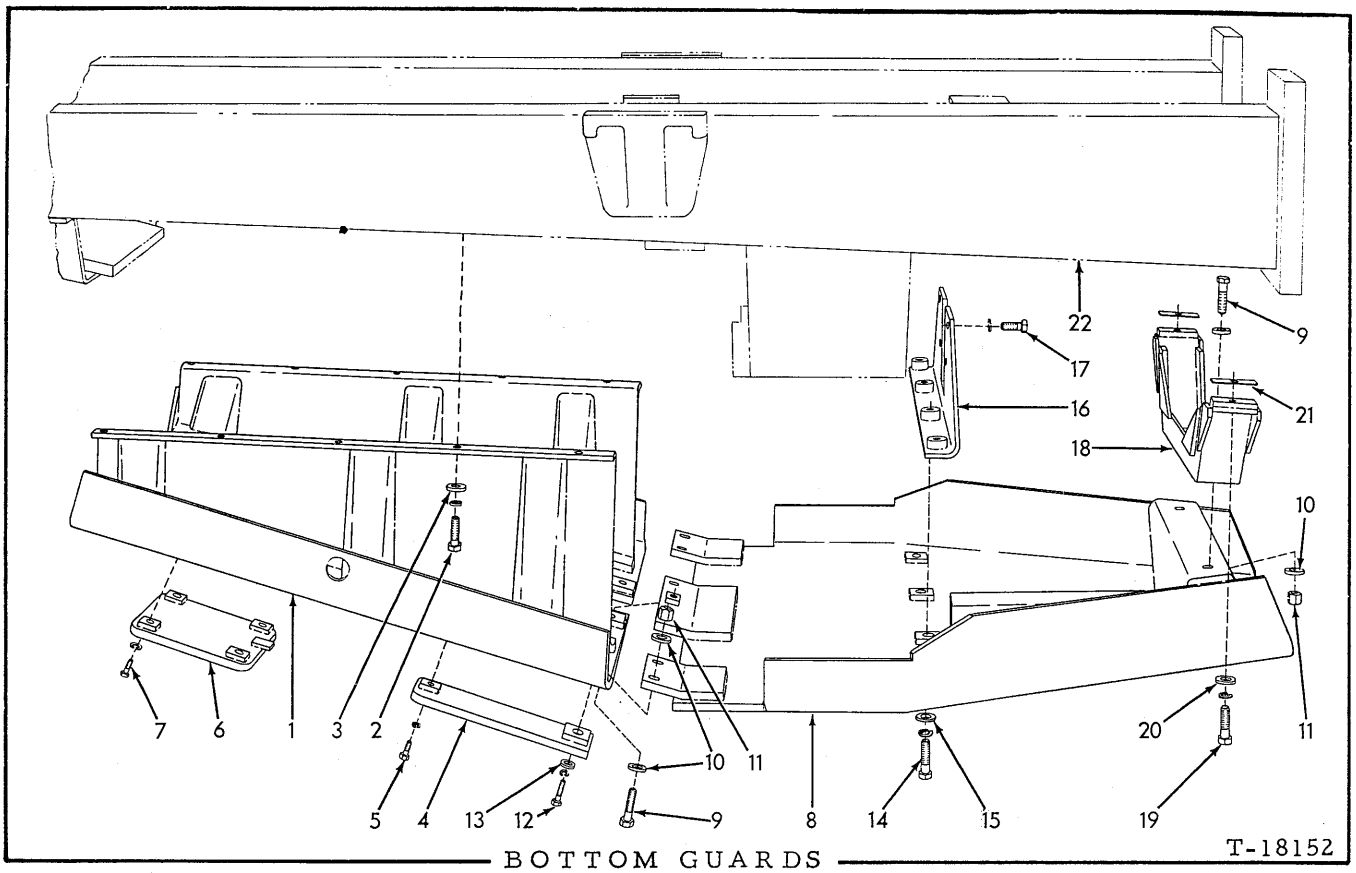
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 46 | 631981 | 1 | 1 | LEVER ASSEMBLY, operating, parking brake (See page 398 for parts) |
| 47 | 070467 | 4 | 4 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 48 | 052671 | 1 | 1 | PIN, bracing yoke eye |
| | 900806 | 1 | 1 | PIN, cotter, 1/8" x 1" |
| 49 | 068389 | 1 | 1 | YOKE, parking brake rod |
| 50 | 631893 | 1 | - | ROD, connecting, parking brake lever (12-1/4" long) |
| | 631980 | - | 1 | ROD, connecting, parking brake lever (17" long) |
| 51 | 052671 | 1 | 1 | PIN, parking brake lever |
| | 900806 | 1 | 1 | PIN, cotter, 1/8" x 1" |
| 52 | 631974 | 1 | 1 | LEVER, parking brake |
| 53 | 065588 | 1 | 1 | CAPSCREW, 1/2"NF x 3-1/2" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |




PARKING BRAKE LEVER ASSEMBLY 631981 T-37196

USAGE: See page 395

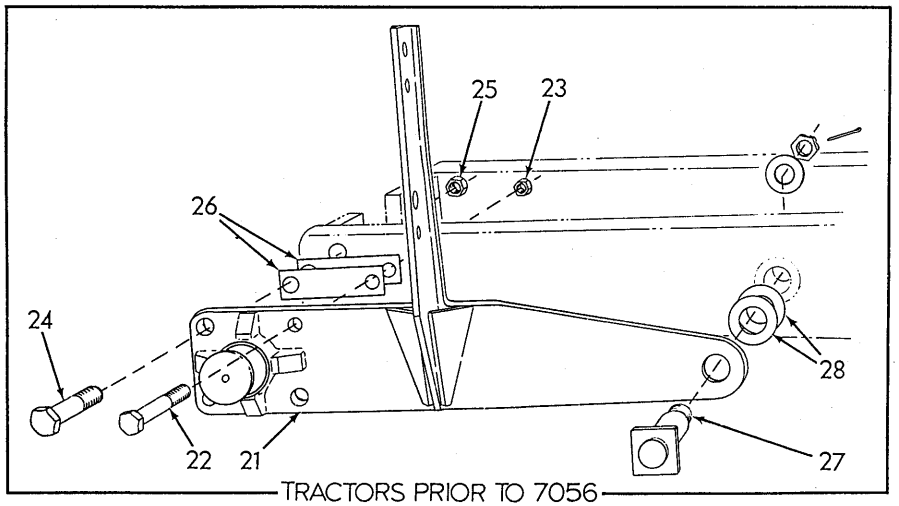
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 637801 | 1 | CAP, adjusting stud |
| 2 | 637802 | 1 | NUT, cap locking |
| 3 | 923548 | 1 | O-RING, adjusting stud knob |
| 4 | 637803 | 1 | LEVER, operating |
| 5 | 637818 | 1 | STUD, lever adjusting |
| 6 | 637804 | 1 | TUBE, adjusting stud |
| 7 | 637819 | 1 | PIN, connecting link |
| 8 | 637805 | 1 | LINK, connecting |
| 9 | 637811 | 1 | PIN, clevis |
| | 900818 | 1 | WASHER, plain, U.S. std., 1/2" |
| | 900806 | 1 | PIN, cotter, 1/8" x 1" |
| 10 | 637808 | 2 | BRACKET, pivot |
| 11 | 637806 | 2 | SPACER, pivot bracket (3/4" O.D.) |
| 12 | 637809 | 2 | SPACER, pivot bracket (5/8" O.D.) |
| 13 | 637810 | 1 | SPACER, pivot bracket (1/2" O.D.) |
| 14 | ------ | 1 | BRACKET, supporting (Not serviced separately) |
| 15 | 637817 | 1 | BOLT, pivot bracket (drilled-hd.)(Early units) |
| | 099575 | 1 | CAPSCREW, pivot bracket (Late units) |
| | 919219 | 1 | NUT, Sealastic stop, thin, 3/8"NF |
| 16 | 637820 | 1 | PIN, lever locking (Includes chain) |
| | 913533 | 1 | SCREW, thread-cutting, #4 x 1/4" (Early units) |
| | 628406 | 1 | PIN, drive (Late units) |



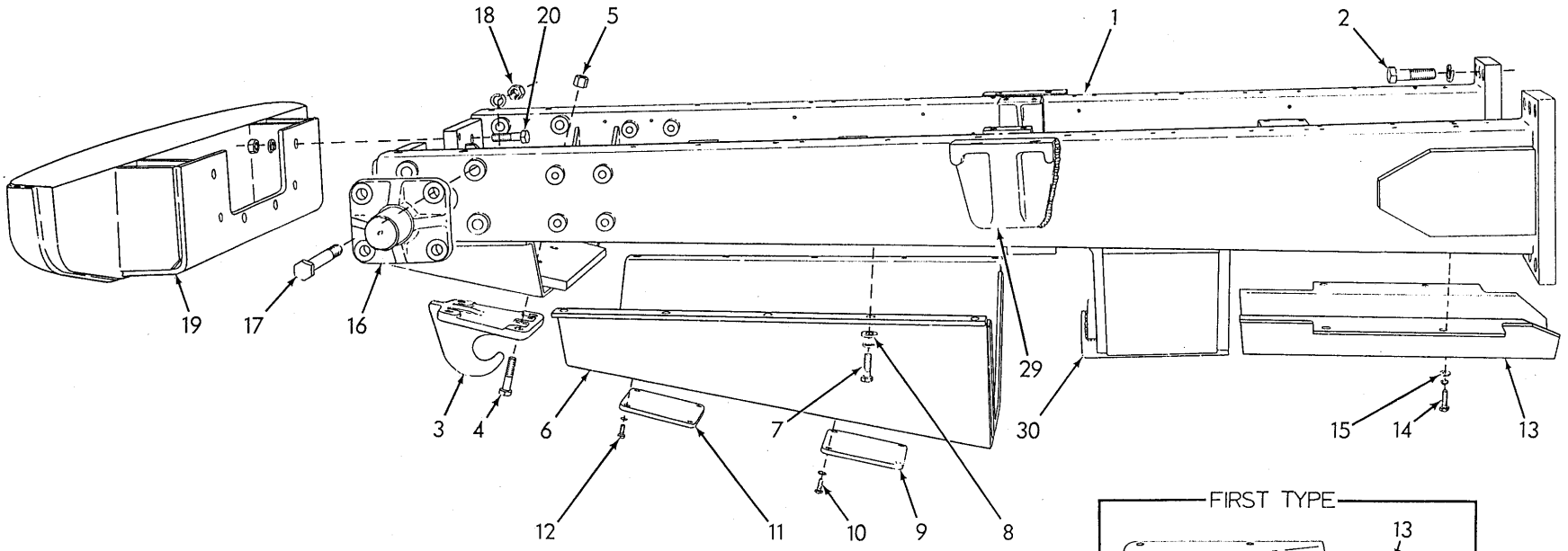

BOTTOM GUARDS

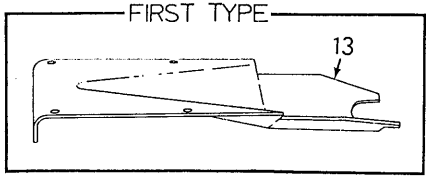
USAGE: Special Equipment for Model HD21A only

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 091729 | 1 | GUARD ASSEMBLY, bottom, front section (Includes items 4 thru 7) (Used in place of standard crankcase GUARD) |
| 2 | 013465 | 10 | CAPSCREW, 3/4"NF x 2-1/2" |
| | 904369 | 10 | LOCKWASHER, 3/4" |
| 3 | 061689 | 10 | WASHER, plain |
| 4 | 083799 | 1 | COVER, oil drain opening, rear |
| 5 | 070469 | 1 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 6 | 069985 | 1 | COVER, oil and water drain opening, front |
| 7 | 070469 | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 8 | 091128 | 1 | GUARD, bottom, rear section |
| 9 | 012984 | 8 | CAPSCREW, 3/4"NF x 2-3/4" |
| 10 | 061689 | 16 | WASHER, plain |
| 11 | 012767 | 8 | NUT, high, 3/4"NF |
| 12 | 035068 | 1 | CAPSCREW, 1/2"NF x 2-1/4" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 13 | 047063 | 1 | WASHER, plain |
| 14 | 013465 | 4 | CAPSCREW, 3/4"NF x 2-1/2" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 15 | 061689 | 4 | WASHER, plain |
| 16 | 060556 | 1 | SUPPORT, rear bottom guard |
| 17 | 072595 | 4 | CAPSCREW, 3/4"NF x 1-3/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 18 | 060557 | 1 | CHANNEL, supporting, guard rear section |
| 19 | 012984 | 2 | CAPSCREW, 3/4"NF x 2-3/4" |
| | 904369 | 2 | LOCKWASHER, 3/4" |
| 20 | 061689 | 2 | WASHER, plain |
| 21 | 073309 | 2 | SHIM, channel adjustment (Use as required) |
| 22 | ------ | 1 | FRAME, (See MAIN FRAME) |




TRACTORS PRIOR TO 7056




MAIN FRAME

T-18130

# MAIN FRAME

* Model HD21A
** Model HD21F
*** Model HD21G

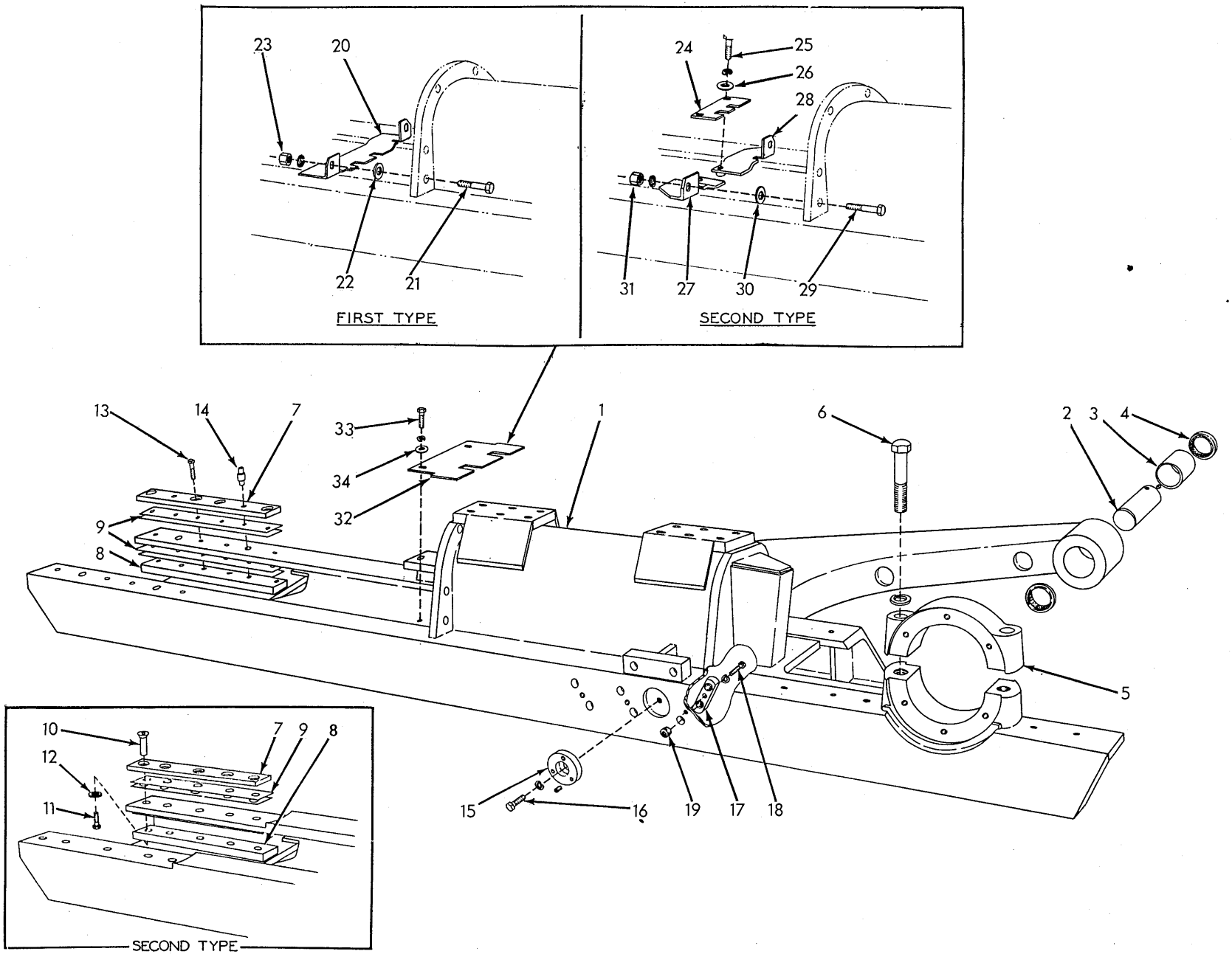
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 084569 | 1 | - | - | FRAME, main (Includes items 29 and 30)(Used prior to tractor #12278. If for tractors prior to #11730 also order SHIELD 623125. If for tractors prior to #9001 add 4 CAPSCREWS 012742, 4 NUTS 012767, 8 CAPSCREWS 035440 and 4 LOCKWASHERS 904209. Ream holes in engine rear supporting brackets for larger capscrews. If for tractors prior to #7056 add 2 each BRACKET 084213, TRUNNION 087795; 8 each CAPSCREW 030446, CAPSCREW 077197, NUT 600236 and LOCKWASHER 910916. |
| | 632052 | 1 | - | - | FRAME, main (Includes items 29 and 30)(Effective with tractor #12278) |
| | 085599 | - | 1 | - | FRAME, main (Includes item 30)(If required for tractors prior to #11859 also order SHIELD 623126) |
| | 085598 | - | - | 1 | FRAME, main (Includes item 30)(Used prior to tractor #11938) |
| | 621361 | - | - | 1 | FRAME, main (Includes item 30)(Used on tractor #11938 thru #12278) |
| | 632090 | - | - | 1 | FRAME, main (Includes item 30)(Effective with tractor #12278) |
| 2 | 053251 | 12 | 12 | 12 | CAPSCREW, 1-1/4"NF x 4-1/2" |
| | 904210 | 12 | 12 | 12 | LOCKWASHER, 1-1/4" |
| 3 | 040503 | 1 | 1 | 1 | HOOK, front pull |
| 4 | 013006 | 4 | 4 | 4 | CAPSCREW, 7/8"NF x 3-3/4" |
| 5 | 070400 | 4 | 4 | 4 | NUT, high, 7/8"NF |
| 6 | 082593 | 1 | 1 | 1 | GUARD ASSEMBLY, crankcase (Includes items 9 thru 12) (Used prior to tractor #8771) |
| | 091629 | 1 | 1 | 1 | GUARD ASSEMBLY, crankcase (Includes items 9 thru 12) (Effective with tractor #8771) |
| 7 | 013465 | 10 | 10 | 10 | CAPSCREW, 3/4"NF x 2-1/2" |
| | 904369 | 10 | 10 | 10 | LOCKWASHER, 3/4" |
| 8 | 061689 | 10 | 10 | 10 | WASHER, plain |
| 9 | 082630 | 1 | 1 | 1 | PLATE, cover, oil drain opening, rear (Used prior to tractor #8771) |
| | 091634 | 1 | 1 | 1 | PLATE, cover, oil drain opening, rear (Effective with tractor #8771) |
| 10 | 070469 | 4 | 4 | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| 11 | 082631 | 1 | 1 | 1 | PLATE, cover, oil and water drain opening, front (Used prior to tractor #8771) |
| | 091634 | 1 | 1 | 1 | PLATE, cover, oil and water drain opening, front (Effective with tractor #8771) |
| 12 | 070469 | 4 | 4 | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |

(Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 13 | 058413 | 1 | - | - | SHIELD, rear (Used prior to tractor #11730) |
| | 623125 | 1 | - | - | SHIELD, rear (Effective with tractor #11730) |
| | 074716 | - | 1 | - | SHIELD, rear (Used prior to tractor #11859) |
| | 623126 | - | 1 | - | SHIELD, rear (Effective with tractor #11859) |
| | 623127 | - | - | 1 | SHIELD, rear |
| 14 | 035067 | 4 | 4 | 4 | CAPSCREW, 1/2"NF x 2" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| 15 | 064531 | 4 | 4 | 4 | WASHER, plain |
| 16 | 087795 | 2 | 2 | - | TRUNNION, radiator guard mounting (Effective on Model HD21A with tractor #7056) |
| 17 | 077197 | 8 | 8 | - | CAPSCREW, 1"NF x 8-1/4" |
| | 910916 | 8 | 8 | - | LOCKWASHER, 1" |
| 18 | 600236 | 8 | 8 | - | NUT, high, 1"NF |
| 19 | 084163 | 1 | 1 | - | BUMPER, front (Used prior to tractor #9001. Not used with front mounted allied equipment) |
| | 093922 | 1 | 1 | - | BUMPER, front (Effective with tractor #9001. Not used with front mounted allied equipment) |
| 20 | 012586 | 4 | 4 | - | CAPSCREW, 1"NF x 3-1/2" |
| | 910916 | 4 | 4 | - | LOCKWASHER, 1" |
| | 911047 | 4 | 4 | - | NUT, 1"NF |
| | | | | | NOTE: Items 21 thru 28 comprise the first type radiator guard mounting arrangement used on Model HD21A tractors prior to #7056 |
| 21 | 084929 | 1 | - | - | PLATE, radiator guard mounting, left |
| | 084930 | 1 | - | - | PLATE, radiator guard mounting, right |
| 22 | 084955 | 4 | - | - | CAPSCREW, 1"NF x 7-1/2" |
| 23 | 600236 | 4 | - | - | NUT, high, 1"NF |
| 24 | 085576 | 4 | - | - | CAPSCREW, 1-1/4"NF x 7-1/2" |
| 25 | 028847 | 4 | - | - | NUT, high, 1-1/4"NF |
| 26 | 084934 | 8 | - | - | SHIM, mounting plate, front (1/16" thick. Use as required) |
| | 084935 | 8 | - | - | SHIM, mounting plate, front (.035" thick. Use as required) |
| | 084936 | 16 | - | - | SHIM, mounting plate, front (.014" thick. Use as required) |
| 27 | 084942 | 2 | - | - | PIN, radiator guard mounting plate (See FRONT PUSHER for special pin) |
| | 900825 | 2 | - | - | WASHER, plain, U.S. std., 1-1/2" |
| | 911058 | 2 | - | - | NUT, castle, 1-1/2"NF |
| | 901345 | 2 | - | - | PIN, cotter, 1/4" x 2-1/2" |
| 28 | 084937 | 4 | - | - | SHIM, mounting plate, rear (1/16" thick. Use as required) |
| | 084938 | 4 | - | - | SHIM, mounting plate, rear (.035" thick. Use as required) |
| | 084939 | 8 | - | - | SHIM, mounting plate, rear (.014" thick. Use as required) |

(Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 29 | 085527 | 2 | - | - | BRACKET, supporting, front fender (Requires welding to install. Must be added to Model HD21F frame when used with dozer) |
| 30 | 623558 | 1 | 1 | 1 | TUBE, spring pivot pin (Requires welding and reaming to install) |




TRUCK FRAME

T-27434

## TRUCK FRAME

* Model HD21A tractors prior to serial No. 12368
△ Model HD21A tractors serial No. 12368 and up
** Model HD21F tractors prior to serial No. 12368
△△ Model HD21F tractors serial No. 12368 and up
*** Model HD21G tractors prior to serial No. 11725, including No. 11798. See page 409 for later design

| ITEM | PART NO. | QUANTITY * | △ | ** | △△ | *** | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 1 | 078065 | 1 | - | - | - | - | FRAME ASSEMBLY, left (Used prior to tractor #9001) |
| | 631363 | 1 | 1 | - | - | - | FRAME ASSEMBLY, left (Includes items 3, 5, 6 and 7 thru 12)(Effective with tractor #9001. If for tractors prior to #12001 also order 2 ROLLERS 623825, 4 BLOCKS 623826, 12 CAPSCREWS 012762 and 12 LOCKWASHERS 905347. If for tractors prior to #11679 also add 28 BLOCKS 098730, 28 CAPSCREWS 085026 and 28 LOCKWASHERS 905347. Holes in truck wheel brackets must be enlarged for these capscrews) |
| | 078123 | - | - | 1 | - | - | FRAME ASSEMBLY, left (Used prior to tractor #12015) |
| | 623939 | - | - | 1 | - | - | FRAME ASSEMBLY, left (Effective with tractor #12015) |
| | 631369 | - | - | - | 1 | - | FRAME ASSEMBLY, left (Includes items 3, 5, 6 and 7 thru 12) |
| | 089393 | - | - | - | - | 1 | FRAME ASSEMBLY, left (Used prior to tractor #11001) |
| | 098737 | - | - | - | - | 1 | FRAME ASSEMBLY, left (Effective with tractor #11001. When making first replacement also order 4 CAPSCREWS 615166, 4 CAPSCREWS 052361, 8 LOCKWASHERS 904210 and 8 NUTS 913097. Holes in rigid beam must be enlarged for these capscrews. If for tractors prior to #11679 also order 32 BLOCKS 098730, 32 CAPSCREWS 085026 and 32 LOCKWASHERS 905347. Holes in truck wheel brackets must be enlarged for these capscrews) |
| | 078066 | 1 | - | - | - | - | FRAME ASSEMBLY, right (Used prior to tractor #9001) |
| | 098734 | 1 | - | - | - | - | FRAME ASSEMBLY, right (Used on tractors #9001 thru #12000. If for tractors prior to #11679, also order 28 BLOCKS 098730, 28 CAPSCREWS 085026 and 28 LOCKWASHERS 905347. Holes in truck wheel brackets must be enlarged for these capscrews) |
| | 623924 | 1 | - | - | - | - | FRAME ASSEMBLY, right (Effective with tractor #12001) |
| | 631364 | - | 1 | - | - | - | FRAME ASSEMBLY, right (Includes items 3, 5, 6 and 7 thru 12) |
| | 078124 | - | - | 1 | - | - | FRAME ASSEMBLY, right (Used prior to tractor #12015) |
| | 623940 | - | - | 1 | - | - | FRAME ASSEMBLY, right (Effective with tractor #12015) |
| | 631370 | - | - | - | 1 | - | FRAME ASSEMBLY, right (Includes items 3, 5, 6, and 7 thru 12) |
| | 089394 | - | - | - | - | 1 | FRAME ASSEMBLY, right (Used prior to tractor #11001) |
| | 098738 | - | - | - | - | 1 | FRAME ASSEMBLY, right (Effective with tractor #11001. When making first replacement also order 4 CAPSCREWS 615166, 4 CAPSCREWS 052361, 8 LOCKWASHERS 904210 and 8 NUTS 913097. Holes in rigid beam must be enlarged for these capscrews. If for tractors prior to #11679 also order 32 BLOCKS 098730, 32 CAPSCREWS 085026 and 32 LOCKWASHERS 905347. Holes in truck wheel brackets must be enlarged for these capscrews) |

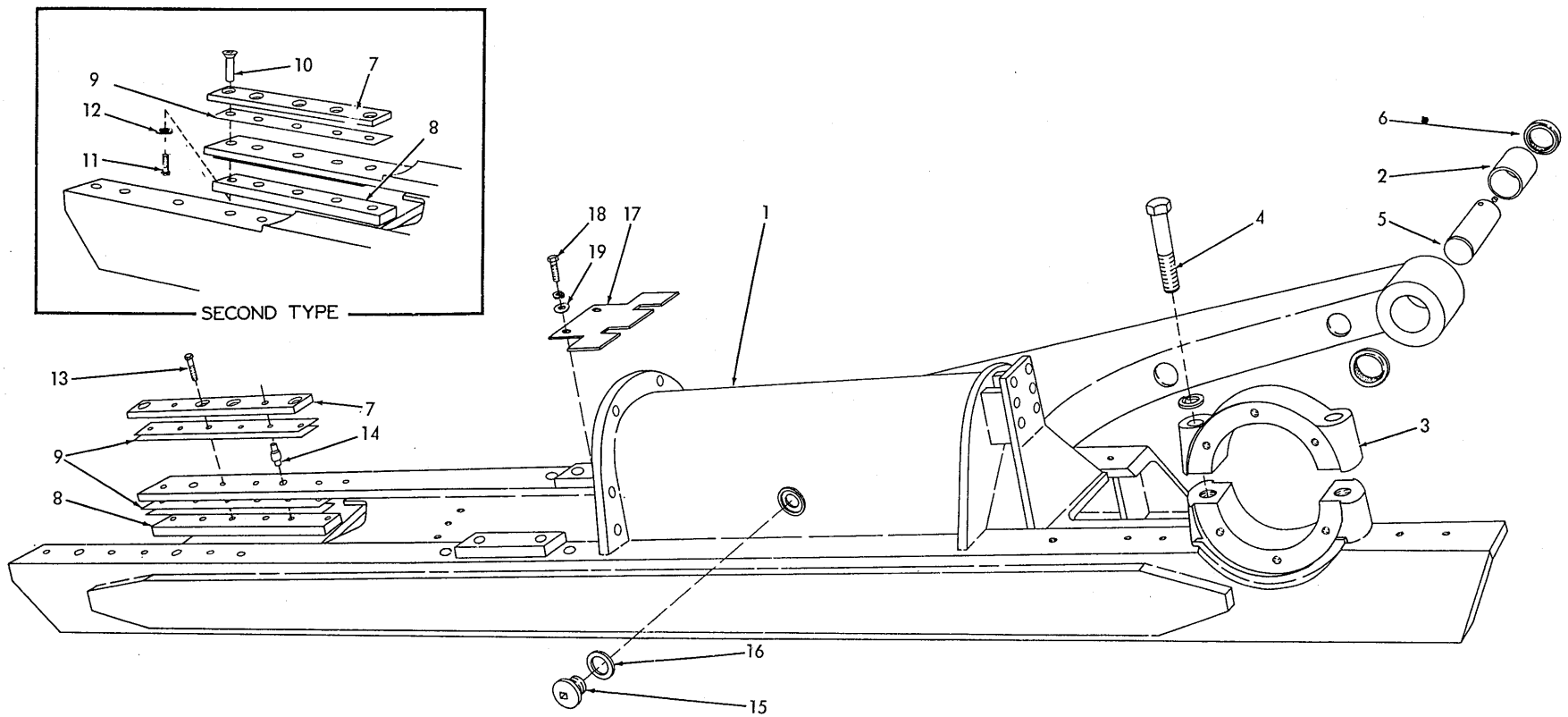
NOTE: Each Frame Assembly listed above includes items 3, 5 and 6, except as otherwise indicated.

(Continued)

| ITEM | PART NO. | QUANTITY * | Δ | ** | ΔΔ | *** | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 2 | 052080 | 2 | 2 | 2 | 2 | 2 | SHAFT, pivot |
| | 907070 | 2 | 2 | 2 | 2 | 2 | PLUG, pipe, ctsk-hd., 1/4"NPT |
| 3 | 052079 | 2 | 2 | 2 | 2 | 2 | BUSHING, pivot shaft |
| 4 | 622984 | 4 | 4 | 4 | 4 | 4 | SEAL, oil, pivot shaft |
| 5 | 069810 | 2 | 2 | 2 | 2 | 2 | CAP, sprocket shaft bearing |
| 6 | 052077 | 4 | 4 | 4 | 4 | 4 | CAPSCREW, 1-1/4"NF x 6" |
| | 904210 | 4 | 4 | 4 | 4 | 4 | LOCKWASHER, 1-1/4" |
| 7 | 051929 | 4 | - | 4 | - | 4 | BAR, slide, track idler, upper (Not used on Model HD21A after tractor #11742 or on HD21F after #12014) |
| | 620693 | 4 | - | 4 | - | - | BAR, slide, track ilder, upper (Effective with tractor #11743 on Model HD21A and #12015 on HD21F) |
| | 630624 | - | 4 | - | 4 | - | BAR, slide, track idler, upper |
| 8 | 094968 | 4 | - | 4 | - | 4 | BAR, slide, track idler, lower (Not used on Model HD21A after tractor #11742 or on HD21F after #12014) |
| | 620692 | 4 | - | 4 | - | - | BAR, slide, track idler, lower (Effective with tractor #11743 on Model HD21A and #12015 on HD21F) |
| | 631704 | - | 4 | - | 4 | - | BAR, slide, track idler, lower |
| 9 | 097754 | 8 | - | 8 | - | 8 | SHIM, slide bar (.015" thick. Use as required) |
| | 094538 | 12 | - | 12 | - | 12 | SHIM, slide bar (.030" thick. Use as required) |
| | 094537 | 8 | - | 8 | - | 8 | SHIM, slide bar (.060" thick. Use as required) |
| | 637601 | - | 4 | - | 4 | - | SHIM, upper slide bar (.015" thick. Use as required) |
| | 632575 | - | 4 | - | 4 | - | SHIM, upper slide bar (.030" thick. Use as required) |
| 10 | 631690 | - | 20 | - | 20 | - | DOWEL, tapped, track idler slide bar |
| 11 | 646045 | - | 20 | - | 20 | - | CAPSCREW, Nylok, 3/8"NF x 1" |
| 12 | 647080 | - | 20 | - | 20 | - | WASHER, plain (hardened) |
| 13 | 045621 | 16 | - | 16 | - | 24 | CAPSCREW, slide bar attaching (thin-hd., 5/8"NF x 2-1/4")(24 used prior to tractor #11743 on Model HD21A and prior to #12015 on HD21F) |
| 14 | 621058 | 8 | - | 8 | - | - | DOWEL, slide bar (Effective with tractor #11743 on Model HD21A and #12015 on HD21F) |
| 15 | 052085 | 2 | 2 | - | - | - | COVER (Removed when mounting dozing equipment) |
| 16 | 070469 | 2 | 2 | - | - | - | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | 2 | - | - | - | LOCKWASHER, 1/2" |
| | 911255 | 6 | 6 | - | - | - | SETSCREW, socket-hd., cup-pt., 1/2"NC x 3/4" |
| 17 | 052144 | 6 | 6 | 6 | - | - | BLOCK, tapped (For mounting dozing equipment)(4 used prior to tractor #7686) |
| 18 | 035892 | 4 | 4 | - | - | - | CAPSCREW, 1/2"NF x 2-1/2 (Used prior to tractor #7686) |
| | 035067 | 6 | 6 | 6 | - | - | CAPSCREW, 1/2"NF x 2" (Effective with tractor #7686) |
| | 904208 | 6 | 6 | 6 | - | - | LOCKWASHER, 1/2" |

(Continued)

| ITEM | PART NO. | QUANTITY * | △ | ** | △△ | *** | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 19 | 053421 | 12 | 12 | 12 | - | - | PLUG (3/4"NPT)(For protecting dozer mounting holes)(8 used prior to tractor #7686) |
| | | | | | | | NOTE: Items 20 thru 23 comprise the first type closure arrangement used as Special Equipment on early Model HD21A tractors |
| 20 | ------ | 2 | - | - | - | - | PLATE, closure (Order items 24 thru 28) |
| 21 | 071943 | 4 | - | - | - | - | CAPSCREW, 3/4"NF x 3-3/4" |
| 22 | 061689 | 4 | - | - | - | - | WASHER, plain |
| | 904369 | 4 | - | - | - | - | LOCKWASHER, 3/4" |
| 23 | 012767 | 4 | - | - | - | - | NUT, high, 3/4"NF |
| | | | | | | | NOTE: Items 24 thru 31 comprise the second type closure arrangement used as Special Equipment prior to tractor #11294 on HD21A, tractor #11417 on HD21F and tractor #11250 on HD21G |
| 24 | 096186 | 2 | - | 2 | - | 2 | PLATE, closure |
| 25 | 035073 | 4 | - | 4 | - | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 4 | - | 4 | - | 4 | LOCKWASHER, 1/2" |
| 26 | 064531 | 4 | - | 4 | - | 4 | WASHER, plain |
| 27 | 096813 | 2 | - | 2 | - | 2 | BRACKET, closure plate supporting, left |
| 28 | 096814 | 2 | - | 2 | - | 2 | BRACKET, closure plate supporting, right |
| 29 | 071943 | 4 | - | 4 | - | 4 | CAPSCREW, supporting bracket (3/4"NF x 3-3/4") |
| 30 | 061689 | 4 | - | 4 | - | 4 | WASHER, plain |
| | 904369 | 4 | - | 4 | - | 4 | LOCKWASHER, 3/4" |
| 31 | 012767 | 4 | - | 4 | - | 4 | NUT, high, 3/4"NF |
| | | | | | | | NOTE: Items 32 thru 34 comprise the third type closure arrangement used as Standard Equipment effective with tractor #11294 on HD21A, tractor #11417 on HD21F and tractor #11250 on HD21G |
| 32 | 097490 | 2 | 2 | 2 | - | 2 | PLATE, closure (Not used on Model HD21F tractors after #12014) |
| | 622460 | - | - | 2 | 2 | - | PLATE, closure (Effective with tractor #12015) |
| 33 | 012992 | 4 | 4 | 4 | 4 | 4 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 4 | 4 | 4 | 4 | 4 | LOCKWASHER, 3/8" |
| 34 | 044973 | 4 | 4 | 4 | 4 | 4 | WASHER, plain |




TRUCK FRAME (Second type Model HD21G)

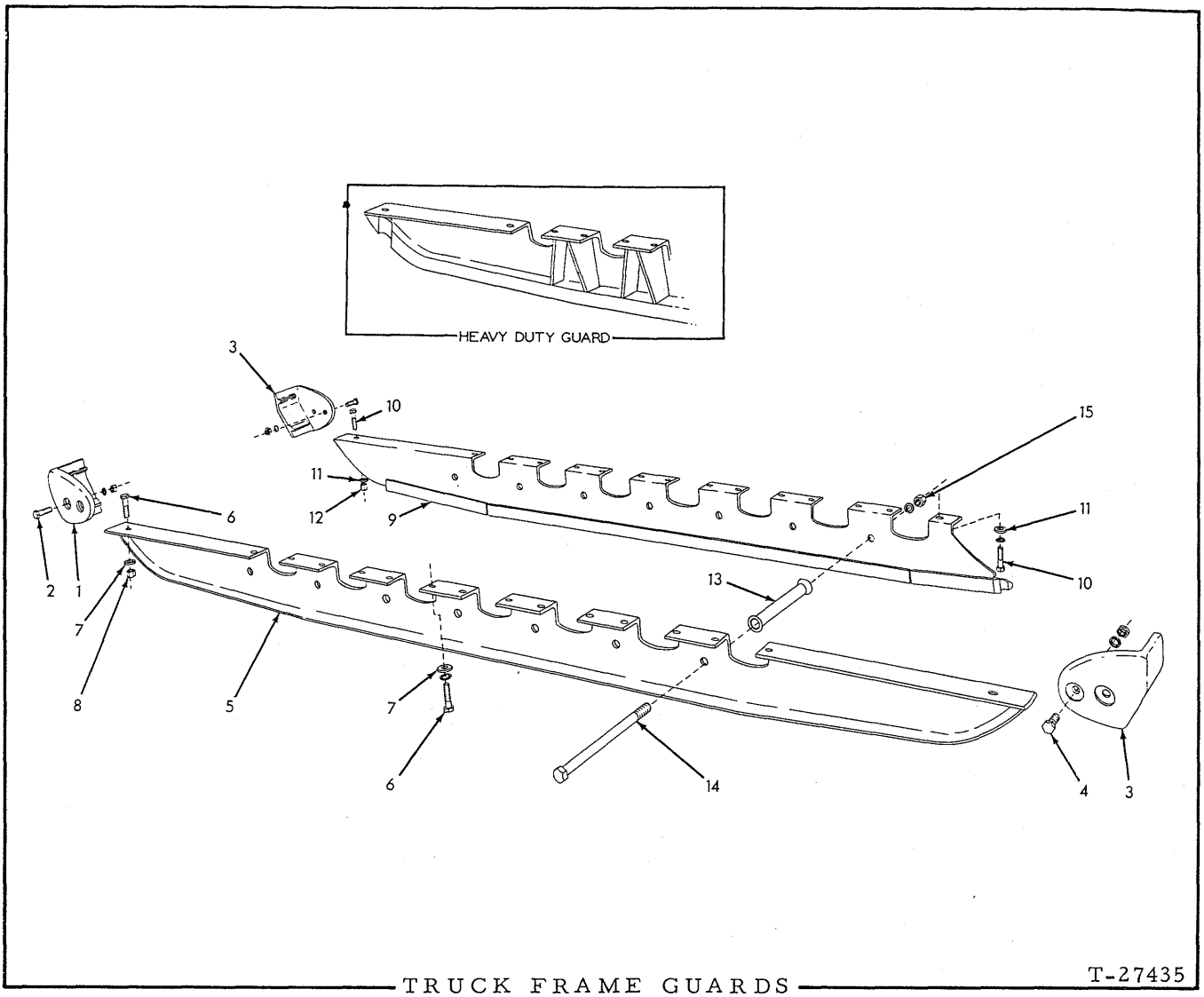
T-27480

# TRUCK FRAME

USAGE: Model HD21G tractors serial No. 11725 and up, excluding #11798

* Tractors prior to serial No. 12368
** Tractors serial No. 12368 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 631393 | 1 | 1 | FRAME ASSEMBLY, left (Includes items 2, 3, 4 and 7 thru 12) |
| | 622458 | 1 | - | FRAME ASSEMBLY, right (Includes items 2 thru 4) |
| | 631394 | - | 1 | FRAME ASSEMBLY, right (Includes items 2, 3, 4 and 7 thru 12) |
| 2 | 052079 | 2 | 2 | BUSHING, pivot shaft |
| 3 | 069810 | 2 | 2 | CAP, sprocket shaft bearing |
| 4 | 052077 | 4 | 4 | CAPSCREW, 1-1/4"NF x 6" |
| | 904210 | 4 | 4 | LOCKWASHER, 1-1/4" |
| 5 | 052080 | 2 | 2 | SHAFT, pivot |
| | 907070 | 2 | 2 | PLUG, pipe, ctsk-hd., 1/4"NPT |
| 6 | 622984 | 4 | 4 | SEAL, dirt, pivot shaft |
| 7 | 620693 | 4 | - | BAR, slide, track idler, upper |
| | 630624 | - | 4 | BAR, slide, track idler, upper |
| 8 | 620692 | 4 | - | BAR, slide, track idler, lower |
| | 631704 | - | 4 | BAR, slide, track idler, lower |
| 9 | 097754 | 8 | - | SHIM, slide bar (.015" thick. Use as required) |
| | 094538 | 12 | - | SHIM, slide bar (.030" thick. Use as required) |
| | 094537 | 8 | - | SHIM, slide bar (.060" thick. Use as required) |
| | 632575 | - | 4 | SHIM, slide bar (.030" thick. Use as required) |
| | 637601 | - | 4 | SHIM, slide bar (.015" thick. Use as required) |
| 10 | 631690 | - | 20 | DOWEL, tapped, track idler slide bar |
| 11 | 646045 | - | 20 | CAPSCREW, Nylok, 3/8"NF x 1" |
| 12 | 647080 | - | 20 | WASHER, plain (hardened) |
| 13 | 045621 | 16 | - | CAPSCREW, slide bar (5/8"NF x 2-1/4") |
| 14 | 621058 | 8 | - | DOWEL, slide bar |
| 15 | 035250 | 2 | 2 | PLUG, oil filler, track release housing |
| 16 | 035249 | 2 | 2 | GASKET, oil filler plug |
| 17 | 622460 | 2 | 2 | PLATE, top closure |
| 18 | 012992 | 4 | 4 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 19 | 044973 | 4 | 4 | WASHER, plain |




TRUCK FRAME GUARDS T-27435

USAGE: Model HD21A,F tractors prior to serial No. 12368

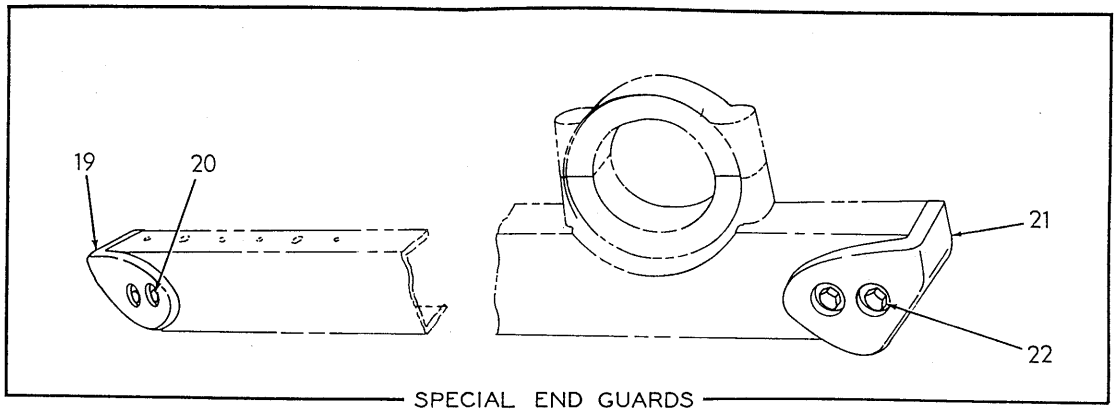
* Standard equipment. Tractors prior to serial No. 11554, excluding EXCEPTIONS below.
** Standard equipment. Tractors serial No. 11554 and up, including EXCEPTIONS below.
*** Special equipment (Heavy-duty)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 082979 | - | - | 3 | GUARD, end, left hand |
| 2 | 012742 | - | - | 6 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | - | - | 6 | LOCKWASHER, 3/4" |
| | 911045 | - | - | 6 | NUT, 3/4"NF |
| 3 | 082980 | - | - | 3 | GUARD, end, right hand |
| 4 | 012742 | - | - | 6 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | - | - | 6 | LOCKWASHER, 3/4" |
| | 911045 | - | - | 6 | NUT, 3/4"NF |

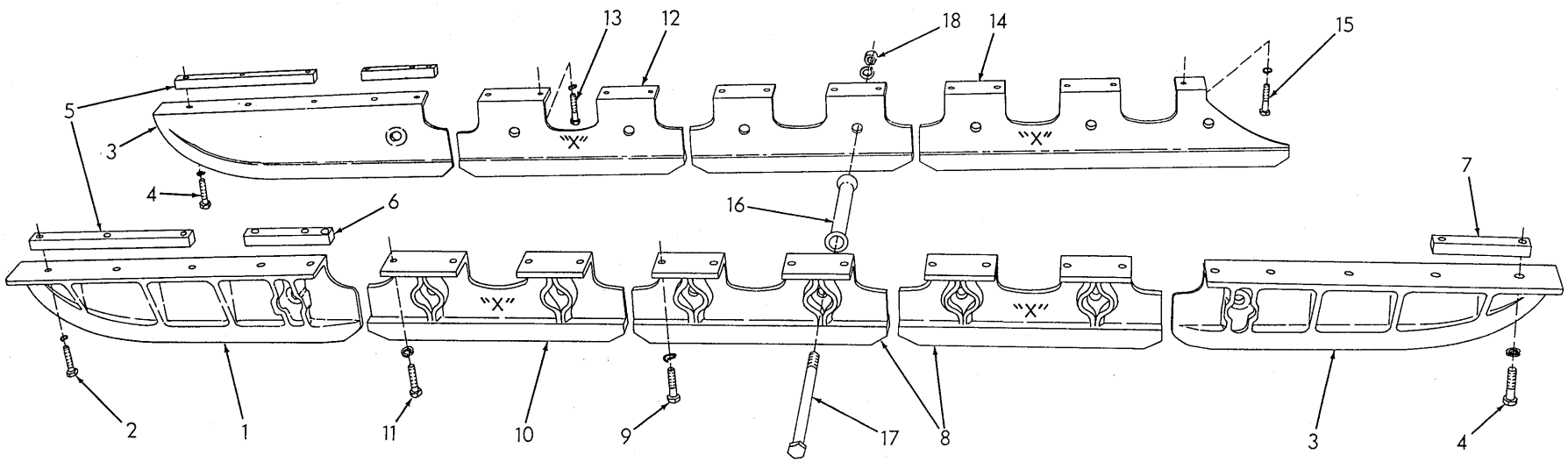
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| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION | |
|---|---|---|---|---|---|---|
| 5 | 051910 | 2 | - | - | GUARD, outer (Model HD21A tractors only prior to #9001) | |
| | 099381 | 1 | - | - | GUARD, outer, left truck frame | Effective with tractor #9001 on Model HD21A |
| | 099382 | 1 | - | - | GUARD, outer, right truck frame | |
| | 099387 | - | 1 | - | GUARD, outer, left truck frame | |
| | 099388 | - | 1 | - | GUARD, outer, right truck frame | |
| | 082958 | - | - | 2 | GUARD, outer (Model HD21A tractors only prior to #9001) | |
| | 091139 | - | - | 1 | GUARD, outer, left truck frame | Effective with tractor #9001 on Model HD21A |
| | 091140 | - | - | 1 | GUARD, outer, right truck frame | |
| 6 | 070285 | 32 | 32 | - | CAPSCREW, 3/4"NF x 3" | 4 less used on Model HD21A prior to tractor #9001 |
| | 012526 | - | - | 32 | CAPSCREW, 3/4"NF x 3-1/4" | |
| | 904369 | 28 | 28 | 28 | LOCKWASHER, 3/4" | |
| 7 | 061689 | 32 | 32 | 32 | WASHER, plain | |
| 8 | 012767 | 4 | 4 | 4 | NUT, high, 3/4"NF | |
| 9 | 051911 | 1 | - | - | GUARD, inner, left truck frame | Model HD21A tractors only prior to #9001 |
| | 051912 | 1 | - | - | GUARD, inner, right truck frame | |
| | 099383 | 1 | - | - | GUARD, inner, left truck frame | Effective with tractor #9001 on Model HD21A |
| | 099384 | 1 | - | - | GUARD, inner, right truck frame | |
| | 099389 | - | 1 | - | GUARD, inner, left truck frame | |
| | 099390 | - | 1 | - | GUARD, inner, right truck frame | |
| | 082955 | - | - | 1 | GUARD, inner, left truck frame | Model HD21A tractors only prior to #9001 |
| | 082956 | - | - | 1 | GUARD, inner, right truck frame | |
| | 091137 | - | - | 1 | GUARD, inner, left truck frame | Effective with tractor #9001 on Model HD21A |
| | 091138 | - | - | 1 | GUARD, inner, right truck frame | |
| 10 | 070285 | 30 | 30 | - | CAPSCREW, 3/4"NF x 3" | 4 less used on Model HD21A prior to tractor #9001 |
| | 012526 | - | - | 30 | CAPSCREW, 3/4"NF x 3-1/4" | |
| | 904369 | 28 | 28 | 28 | LOCKWASHER, 3/4" | |
| 11 | 061689 | 30 | 30 | 30 | WASHER, plain | |
| 12 | 012767 | 2 | 2 | 2 | NUT, high, 3/4"NF | |
| 13 | 082968 | - | 14 | 12 | SPACER, guard bracing (2 less used on Model HD21A prior to tractor #9001) | |
| 14 | 099718 | - | 14 | - | CAPSCREW, guard bracing spacer (1"NF x 15-1/2") | |
| | 082969 | - | - | 12 | CAPSCREW, guard bracing spacer (1"NF x 16-1/4")(2 less used on Model HD21A prior to tractor #9001) | |
| | 910916 | - | 14 | 12 | LOCKWASHER, 1" | |
| 15 | 600236 | - | 14 | 12 | NUT, high, 1"NF | |

EXCEPTIONS: Tractor serial Nos. 9446, 9447, 9448, 9449, 11426, 11481, 11491, 11495, 11497, 11498, 11499, 11500, 11503, 11504, 11506, 11507, 11510, 11511, 11513, 11514, 11515, 11517, 11518, 11520, 11522, 11523, 11524, 11525, 11526, 11528, 11529, 11531, 11532, 11533, 11535, 11536, 11537, 11541, 11542, 11543, 11544, 11545, 11546, 11547, 11548, 11549, 11551, 11552, 11553.




SPECIAL END GUARDS




GUARDS MARKED "X" ARE SPECIAL EQUIPMENT

TRUCK FRAME GUARDS (Second type. Models HD21A, F)

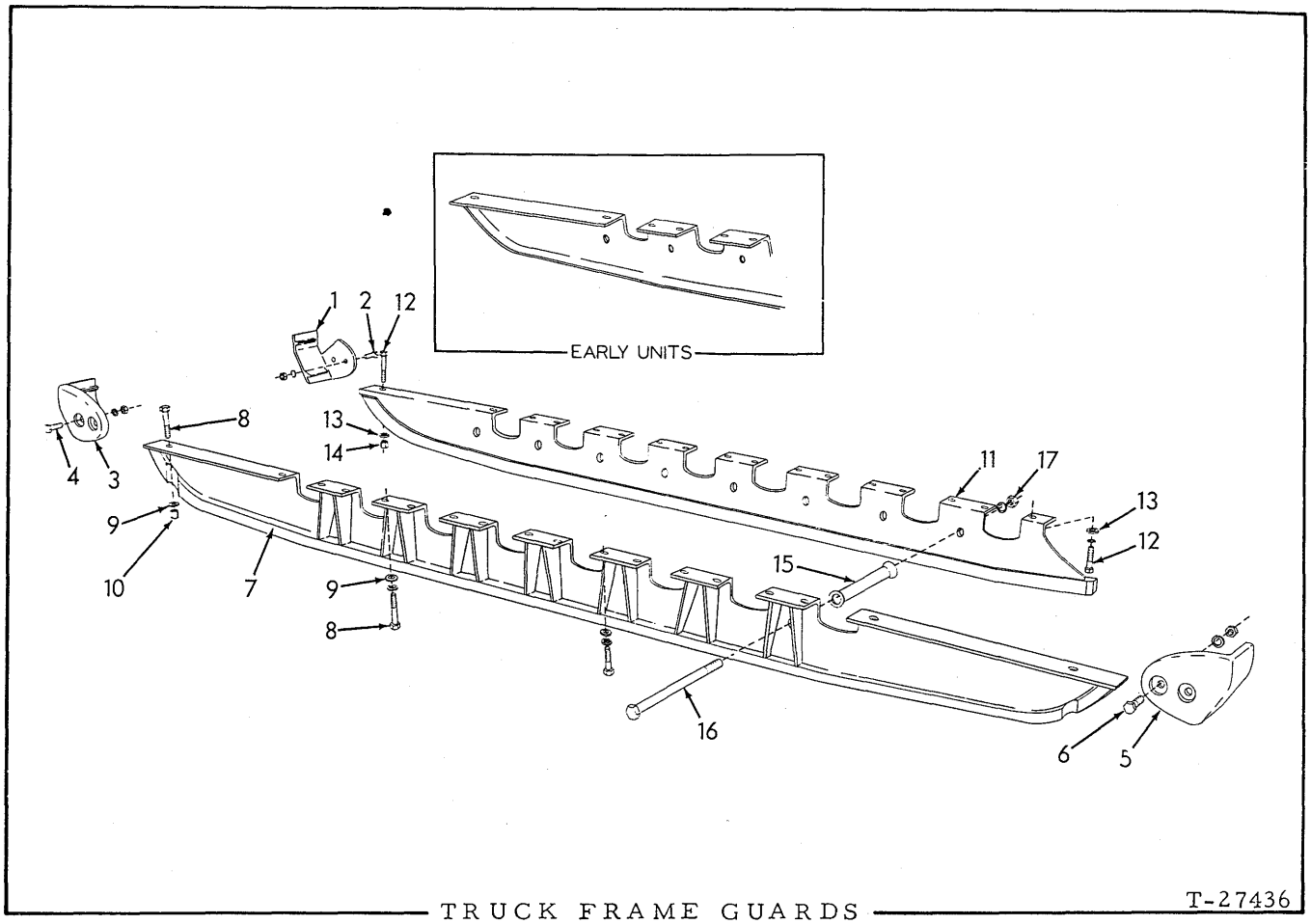
T-36228

# TRUCK FRAME GUARDS

USAGE: Model HD21A, F tractors serial No. 12368 and up

* Partial guarding. Standard equipment
** Full guarding. Special equipment

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 632327 | 3 | 3 | GUARD, end section, left hand |
| 2 | 070285 | 15 | 15 | CAPSCREW, 3/4"NF x 3" |
| | 904369 | 15 | 15 | LOCKWASHER, 3/4" |
| 3 | 632328 | 3 | 3 | GUARD, end section, right hand |
| 4 | 070285 | 15 | 15 | CAPSCREW, 3/4"NF x 3" |
| | 904369 | 15 | 15 | LOCKWASHER, 3/4" |
| 5 | 632349 | 4 | 4 | BLOCK, tapped, front guard attachment (16-1/4" long) |
| 6 | 632325 | 4 | 4 | BLOCK, tapped, front guard attachment (8-1/2" long) |
| 7 | 632350 | 4 | 4 | BLOCK, tapped, rear guard attachment |
| 8 | 632397 | 4 | 6 | GUARD, intermediate section |
| 9 | 070285 | 16 | 24 | CAPSCREW, 3/4"NF x 3" |
| | 904369 | 16 | 24 | LOCKWASHER, 3/4" |
| 10 | 632417 | - | 2 | GUARD, intermediate front section, left hand |
| 11 | 070285 | - | 8 | CAPSCREW, 3/4"NF x 3" |
| | 904369 | - | 8 | LOCKWASHER, 3/4" |
| 12 | 632418 | - | 2 | GUARD, intermediate front section, right hand |
| 13 | 070285 | - | 8 | CAPSCREW, 3/4"NF x 3" |
| | 904369 | - | 8 | LOCKWASHER, 3/4" |
| 14 | 632447 | - | 1 | GUARD, rear inner section, left side |
| | 632448 | - | 1 | GUARD, rear inner section, right side |
| 15 | 070285 | - | 10 | CAPSCREW, 3/4"NF x 3" |
| | 904369 | - | 10 | LOCKWASHER, 3/4" |
| 16 | 632361 | 6 | 16 | SPACER, guard bracing |
| 17 | 632366 | 6 | 16 | CAPSCREW, guard bracing (1"NF x 15-7/8") |
| | 910916 | 6 | 16 | LOCKWASHER, 1" |
| 18 | 600236 | 6 | 16 | NUT, high, 1"NF |
| 19 | 082979 | - | 3 | GUARD, end, left hand |
| 20 | 012742 | - | 6 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | - | 6 | LOCKWASHER, 3/4" |
| | 911045 | - | 6 | NUT, 3/4"NF |
| 21 | 082980 | - | 3 | GUARD, end, right hand |
| 22 | 012742 | - | 6 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | - | 6 | LOCKWASHER, 3/4" |
| | 911045 | - | 6 | NUT, 3/4"NF |




TRUCK FRAME GUARDS T-27436

USAGE: Model HD21G tractors prior to serial No. 12368

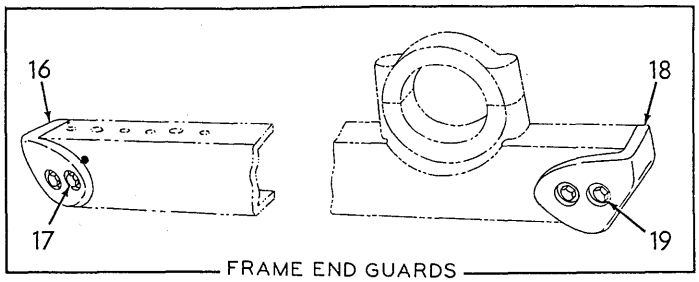
* Standard equipment prior to tractor serial No. 11685
** Standard equipment on tractors serial No. 11685 thru 11724, including No. 11798
*** Standard equipment effective with tractor serial No. 11725, excluding No. 11798; special equipment on prior units

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 098111 | - | - | 1 | GUARD, front end, right truck frame, inner |
| | 098112 | - | - | 1 | GUARD, front end, left truck frame, inner |
| 2 | 012742 | - | - | 4 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | - | - | 4 | LOCKWASHER, 3/4"' |
| | 911045 | - | - | 4 | NUT, 3/4"NF |
| 3 | 082979 | - | - | 2 | GUARD, end, left hand |
| 4 | 012742 | - | - | 4 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | - | - | 4 | LOCKWASHER, 3/4" |
| | 911045 | - | - | 4 | NUT, 3/4"NF |
| 5 | 082980 | - | - | 2 | GUARD, end, right hand |
| 6 | 012742 | - | - | 4 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | - | - | 4 | LOCKWASHER, 3/4" |
| | 911045 | - | - | 4 | NUT, 3/4"NF |

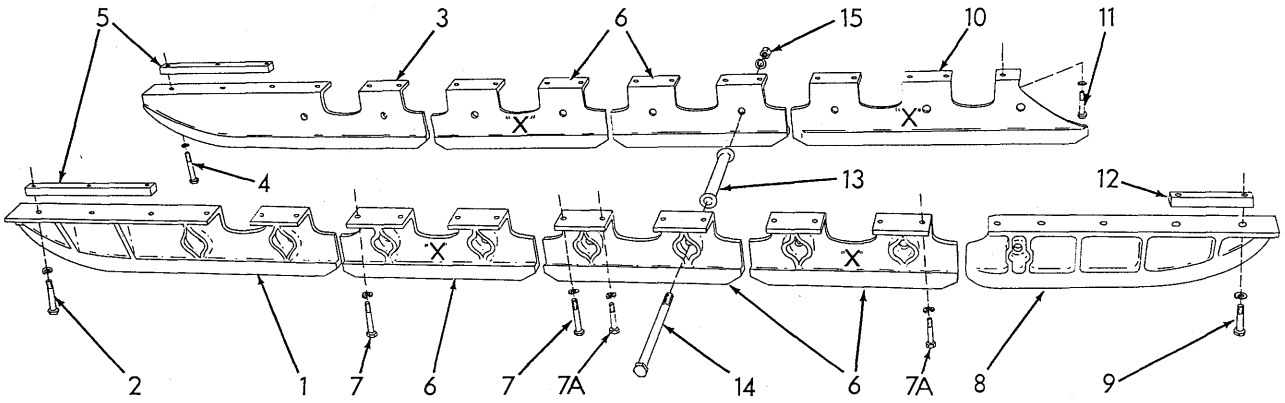
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## TRUCK FRAME GUARDS (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 7 | 099561 | 1 | - | - | GUARD, outer, left truck frame |
| | 099562 | 1 | - | - | GUARD, outer, right truck frame |
| | 099565 | - | 1 | - | GUARD, outer, left truck frame |
| | 099566 | - | 1 | - | GUARD, outer, right truck frame |
| | 092479 | - | - | 1 | GUARD, outer, left truck frame |
| | 092480 | - | - | 1 | GUARD, outer, right truck frame |
| 8 | 070285 | 36 | 36 | - | CAPSCREW, 3/4"NF x 3" |
| | 035423 | - | - | 18 | CAPSCREW, 3/4"NF x 4-1/4" (Not used prior to tractor #11725) |
| | 012526 | - | - | 18 | CAPSCREW, 3/4"NF x 3-1/4" (18 additional used prior to tractor #11725) |
| | 904369 | 32 | 32 | 32 | LOCKWASHER, 3/4" |
| 9 | 061689 | 36 | 36 | 36 | WASHER, plain |
| 10 | 012767 | 4 | 4 | 4 | NUT, high, 3/4"NF |
| 11 | 099563 | 1 | - | - | GUARD, inner, left truck frame |
| | 089496 | 1 | - | - | GUARD, inner, right truck frame |
| | 099567 | - | 1 | - | GUARD, inner, left truck frame |
| | 099568 | - | 1 | - | GUARD, inner, right truck frame |
| | 092485 | - | - | 1 | GUARD, inner, left truck frame |
| | 092486 | - | - | 1 | GUARD, inner, right truck frame |
| 12 | 070285 | 34 | 34 | - | CAPSCREW, 3/4"NF x 3" |
| | 035423 | - | - | 18 | CAPSCREW, 3/4"NF x 4-1/4" (Not used prior to tractor #11725) |
| | 012526 | - | - | 16 | CAPSCREW, 3/4"NF x 3-1/4" (18 additional used prior to tractor #11725) |
| | 904369 | 32 | 32 | 32 | LOCKWASHER, 3/4" |
| 13 | 061689 | 34 | 34 | 34 | WASHER, plain |
| 14 | 012767 | 2 | 2 | 2 | NUT, high, 3/4"NF |
| 15 | 082968 | - | 16 | 14 | SPACER, guard bracing |
| 16 | 099718 | - | 16 | - | CAPSCREW, guard bracing spacer (1"NF x 15-1/2") |
| | 082969 | - | - | 14 | CAPSCREW, guard bracing spacer (1"NF x 16-1/4") |
| | 910916 | - | 16 | 14 | LOCKWASHER, 1" |
| 17 | 600236 | - | 16 | 14 | NUT, high, 1"NF |




FRAME END GUARDS




GUARDS MARKED "X" ARE SPECIAL EQUIPMENT

TRUCK FRAME GUARDS

T-36229

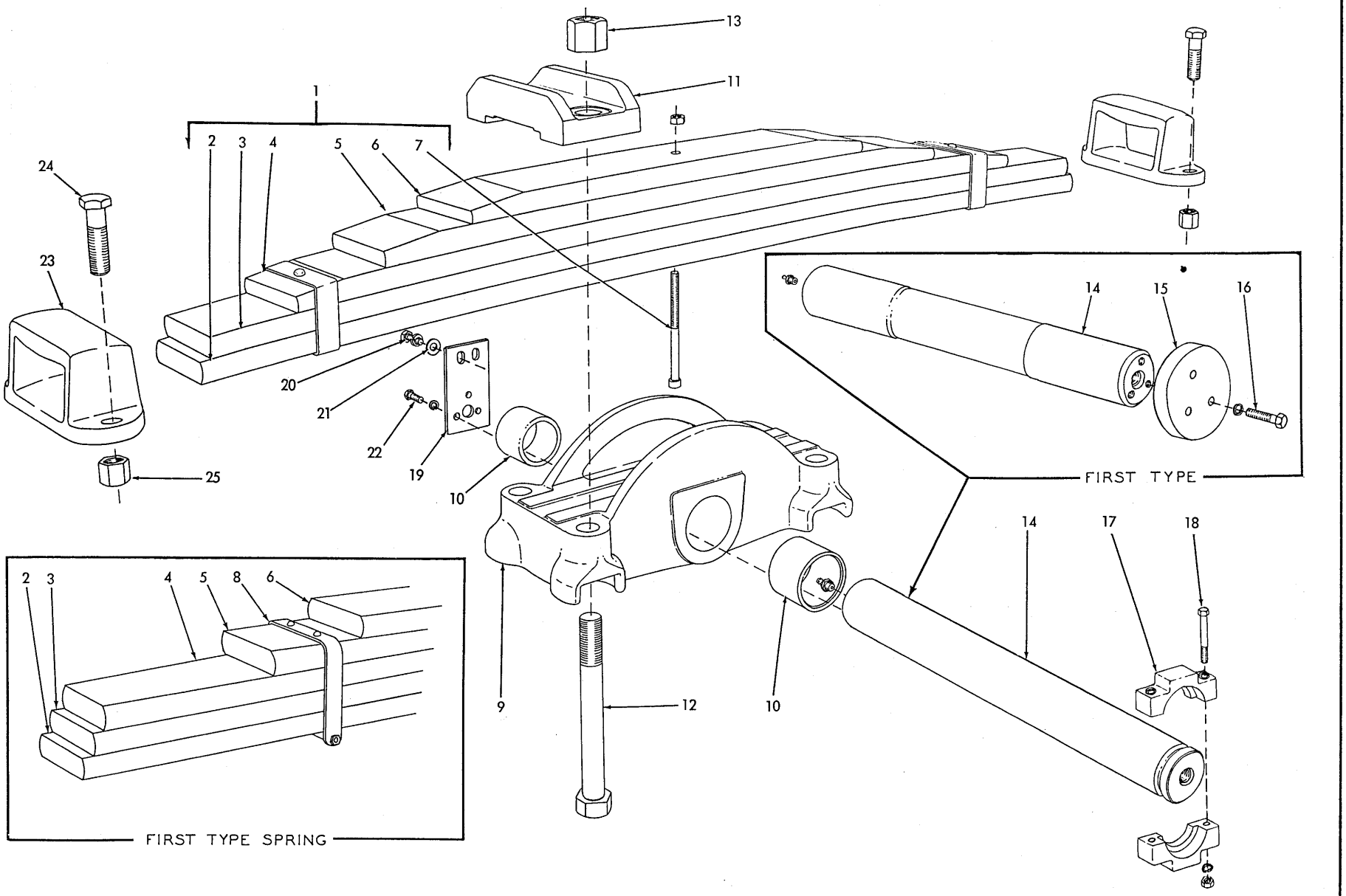
USAGE: Model HD21G tractors serial No. 12368 and up

* Partial guarding. Standard equipment
** Full guarding. Special equipment

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 632497 | 2 | 2 | GUARD, front section, left hand |
| 2 | 035423 | 12 | 12 | CAPSCREW, 3/4"NF x 4-1/4" |
| | 904369 | 12 | 12 | LOCKWASHER, 3/4" |
| 3 | 632498 | 2 | 2 | GUARD, front section, right hand |
| 4 | 035423 | 12 | 12 | CAPSCREW, 3/4"NF x 4-1/4" |
| | 904369 | 12 | 12 | LOCKWASHER, 3/4" |
| 5 | 632553 | 4 | 4 | BLOCK, tapped, front guard attachment |
| 6 | 632397 | 4 | 10 | GUARD, intermediate section |
| 7 | 035423 | 4 | 20 | CAPSCREW, 3/4"NF x 4-1/4" |
| 7A | 012526 | 12 | 20 | CAPSCREW, 3/4"NF x 3-1/4" |
| | 904369 | 16 | 40 | LOCKWASHER, 3/4" |
| 8 | 632327 | 1 | 1 | GUARD, rear outer section, left side |
| | 632328 | 1 | 1 | GUARD, rear outer section, right side |
| 9 | 012526 | 10 | 10 | CAPSCREW,3/4"NF x 3-1/4" |
| | 904369 | 10 | 10 | LOCKWASHER, 3/4" |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 10 | 632447 | - | 1 | GUARD, rear inner section, left side |
| | 632448 | - | 1 | GUARD, rear inner section, right side |
| 11 | 012526 | - | 10 | CAPSCREW, 3/4"NF x 3-1/4" |
| | 904369 | - | 10 | LOCKWASHER, 3/4" |
| 12 | 632350 | 4 | 4 | BLOCK, tapped, rear outer guard attachment |
| 13 | 632361 | 8 | 18 | SPACER, guard bracing |
| 14 | 632366 | 8 | 18 | CAPSCREW, guard bracing |
| | 910916 | 8 | 18 | LOCKWASHER, 1" |
| 15 | 600236 | 8 | 18 | NUT, high, 1"NF |
| 16 | 082979 | 1 | 1 | GUARD, outer front, left side |
| | 082980 | 1 | 1 | GUARD, outer front, right side |
| | 098111 | 1 | 1 | GUARD, inner front, left side |
| | 098112 | 1 | 1 | GUARD, inner front, right side |
| 17 | 012742 | 8 | 8 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | 8 | 8 | LOCKWASHER, 3/4" |
| | 911045 | 8 | 8 | NUT, 3/4"NF |
| 18 | 082979 | 1 | 1 | GUARD, rear, left side |
| | 082980 | 1 | 1 | GUARD, rear, right side |
| 19 | 012742 | 4 | 4 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | 4 | 4 | LOCKWASHER, 3/4" |
| | 911045 | 4 | 4 | NUT, 3/4"NF |




EQUALIZING SPRING

# EQUALIZING SPRING

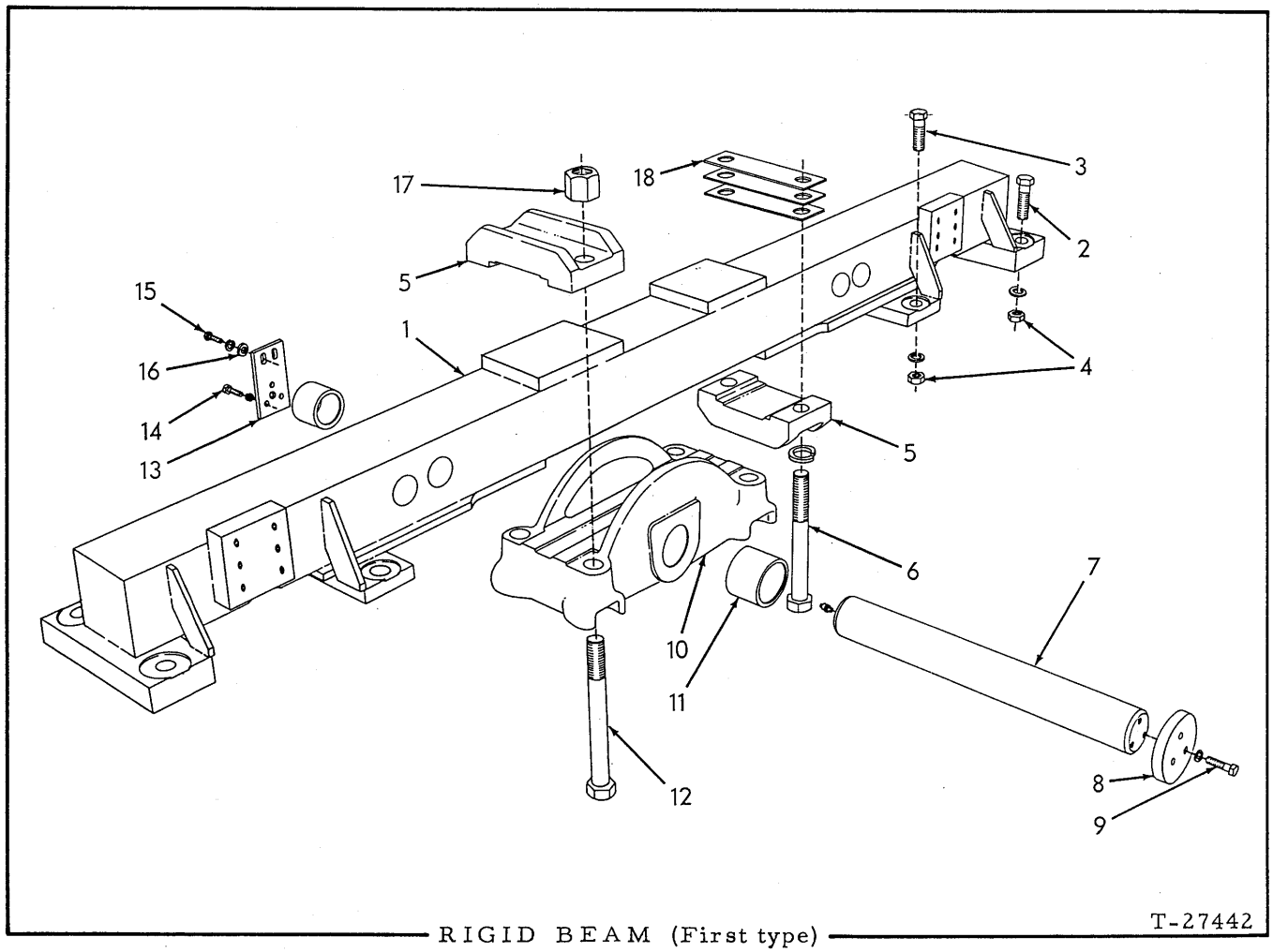
USAGE: Model HD21A only

* Tractors prior to serial No. 12001
** Tractors serial No. 12001 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | - | SPRING ASSEMBLY (Consists of items 2 thru 8. 1-3/8" thick leaves)(Order SPRING ASSEMBLY 099739, 2 SEATS 099738 and 4 CAPSCREWS 621803) |
| | 099739 | - | 1 | SPRING ASSEMBLY (Consists of items 2 thru 7. 1-1/2" thick leaves) |
| 2 | 052248 | 1 | - | LEAF, main (73-1/2" long) |
| | 099687 | - | 1 | LEAF, main (73-1/2" long) |
| 3 | 096279 | 1 | - | LEAF, second (72-1/2" long) |
| | 099734 | - | 1 | LEAF, second (72-1/2" long) |
| 4 | 052250 | 1 | - | LEAF, third (57-1/4" long)(Used prior to tractor #8598) |
| | 096280 | 1 | - | LEAF, third (71-1/2" long)(Effective with tractor #8598) |
| | 099735 | - | 1 | LEAF ASSEMBLY, third (61-1/2" long)(Includes riveted rebound bands. Serviced only as a unit) |
| 5 | 052251 | 1 | - | LEAF, fourth (54" long. Includes item 8) |
| | 099736 | - | 1 | LEAF, fourth (49" long) |
| 6 | 052252 | 1 | - | LEAF, fifth (37-1/4" long) |
| | 099737 | - | 1 | LEAF, fifth (37-1/4" long) |
| 7 | 052253 | 1 | - | BOLT, center (5/8"NF x 7-3/4". Includes NUT 911044) |
| | 065468 | - | 1 | CAPSCREW, center (5/8"NF x 8-1/4") |
| | 911044 | 1 | 1 | NUT, 5/8"NF |
| 8 | 088386 | 2 | - | CLIP KIT, spring rebound (Each consists of 1 clip, 2 rivet, 1 bolt, 1 nut and 1 spacer) |
| 9 | 065860 | 1 | 1 | SADDLE ASSEMBLY (Includes item 10) |
| 10 | 052256 | 2 | 2 | BUSHING, saddle |
| 11 | 052264 | 2 | 2 | SADDLE, spring bolt |
| 12 | 065862 | 4 | - | CAPSCREW, spring saddle (1-1/2"NF x 13-1/4") |
| | 621803 | - | 4 | CAPSCREW, spring saddle (1-1/2"NF x 13-7/8") |
| 13 | 052263 | 4 | 4 | NUT, high, 1-1/2"NF |
| 14 | 622802 | 1 | - | PIN, spring pivot (Used prior to tractor #8077) |
| | 622782 | 1 | 1 | PIN, spring pivot (Effective with tractor #8077) |
| | 912497 | 1 | 1 | FITTING, lubricating, straight, 1/4"NPT (Not original equipment on tractors prior to #12001) |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 15 | 052260 | 1 | - | WASHER, pivot pin (Used prior to tractor #8077) |
| 16 | 035073 | 3 | - | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 3 | - | LOCKWASHER, 1/2" |
| 17 | 089136 | 2 | 2 | CAP, pivot pin retaining (Effective with tractor #8077) |
| 18 | 061631 | 2 | 2 | CAPSCREW, 1/2"NC x 3-1/2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2"' |
| | 911028 | 2 | 2 | NUT, 1/2"NC |
| 19 | 622783 | - | 1 | PLATE, pivot pin retaining |
| 20 | 035229 | 2 | 2 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 2 | 2 | LOCKWASHER, 5/8" |
| 21 | 040089 | 2 | 2 | WASHER, plain |
| 22 | 035073 | 3 | 3 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 23 | 052851 | 2 | - | SEAT, spring (5-3/4" high)(Used prior to tractor #8598) |
| | 090757 | 2 | - | SEAT, spring (7-1/8" high)(Effective with tractor #8598) |
| | 099738 | - | 2 | SEAT, spring |
| 24 | 012586 | 4 | 4 | CAPSCREW, 1"NF x 3-1/2" |
| 25 | 600236 | 4 | 4 | NUT, high, 1"NF |



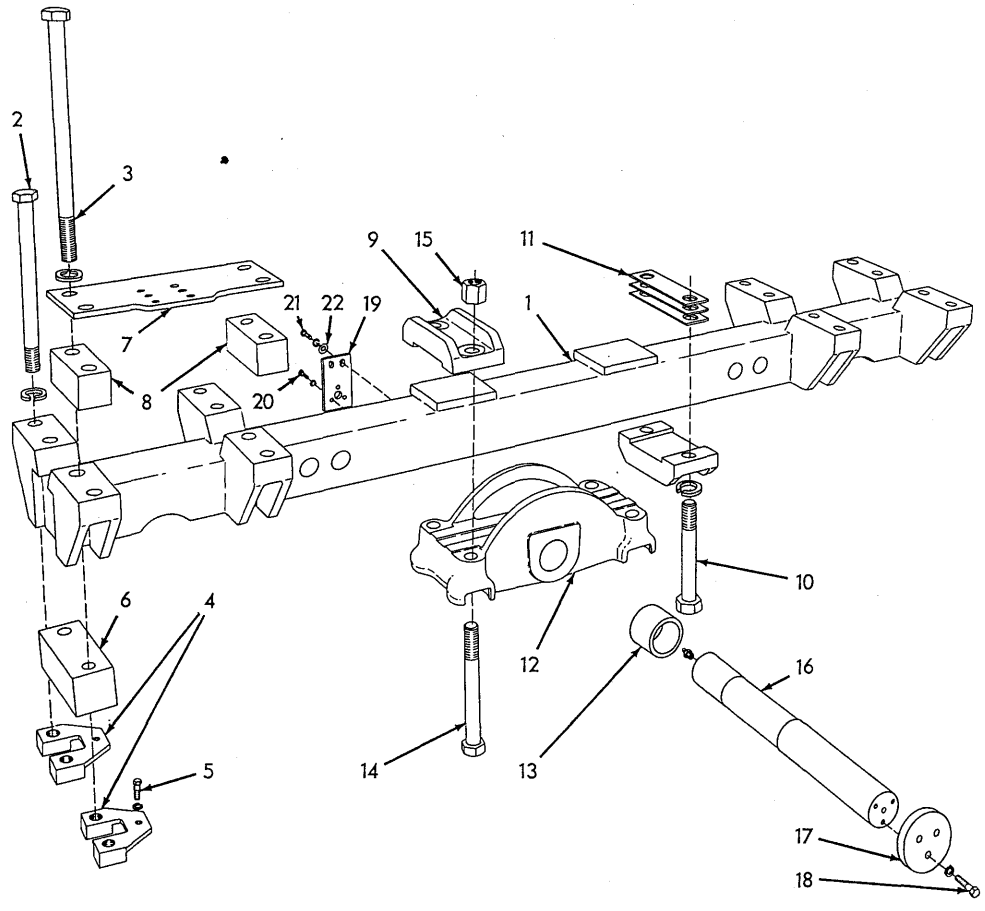

T-27442

RIGID BEAM (First type)

# RIGID BEAM

USAGE: Models HD21F, G prior to tractor serial No. 11725, including Nos. 11798, 11841, 11851, 11859 and 11874

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 098711 | 1 | BEAM, rigid (When making first replacement also order 4 CAPSCREWS 052361, 4 CAPSCREWS 615166, 8 NUTS 913097 and 8 LOCKWASHERS 904210. Requires enlarging holes in truck frame) |
| 2 | 012586 | 4 | CAPSCREW, 1"NF x 3-1/2" (Original equipment) |
| | 052361 | 4 | CAPSCREW, 1-1/4"NF x 4" (Not original equipment) |
| 3 | 012586 | 4 | CAPSCREW, 1"NF x 3-1/2" (Original equipment) |
| | 615166 | 4 | CAPSCREW, 1-1/4"NF x 3-1/2" (Not original equipment) |
| | 904210 | 8 | LOCKWASHER, 1-1/4" (Not original equipment) |
| 4 | 913097 | 8 | NUT, 1-1/4"NF (Not original equipment) |
| | 600236 | 8 | NUT, high, 1"NF (Original equipment) |
| 5 | 052264 | 4 | SADDLE, bolt |
| 6 | 073371 | 4 | CAPSCREW, saddle (1-1/2"NF x 12-3/8") |
| | 913077 | 4 | LOCKWASHER, 1-1/2" |
| 7 | 622802 | 1 | PIN, beam saddle |
| | 912497 | 1 | FITTING, lubricating, straight, 1/4"NPT (Not original equipment) |
| 8 | 052260 | 1 | WASHER, saddle pin |
| 9 | 035073 | 3 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 10 | 065860 | 1 | SADDLE ASSEMBLY (Includes item 11) |
| 11 | 052256 | 2 | BUSHING, saddle |
| 12 | 065862 | 4 | CAPSCREW, saddle (1-1/2"NF x 13-1/4") |
| 13 | 622783 | 1 | PLATE, pivot pin retaining |
| 14 | 035073 | 3 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 15 | 035229 | 2 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 2 | LOCKWASHER, 5/8" |
| 16 | 040089 | 2 | WASHER, plain |
| 17 | 052263 | 4 | NUT, high, 1-1/2"NF |
| 18 | 073396 | 2 | SHIM, spacing (1/16" thick. Use as required) |
| | 073397 | 6 | SHIM, spacing (1/8" thick. Use as required) |
| | 073398 | 2 | SHIM, spacing (1/4" thick. Use as required) |




RIGID BEAM

USAGE: Models HD21F, G serial Nos. 11725 and up, excluding Nos. 11798, 11841, 11851, 11859, 11874.

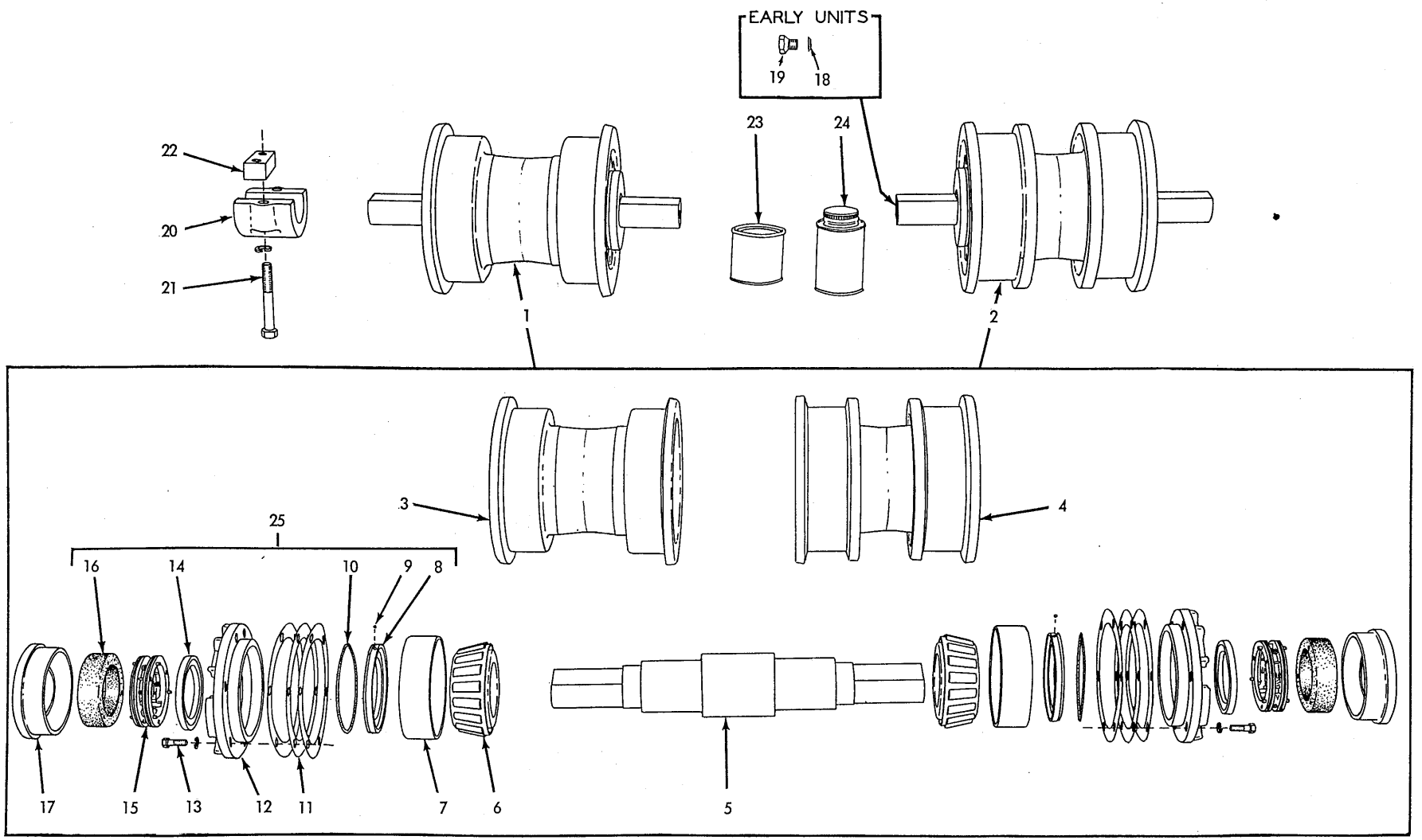
* Model HD21G
** Model HD21F

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 622485 | 1 | 1 | BEAM, rigid |
| 2 | 622488 | 8 | 8 | CAPSCREW, 1-1/4"NF x 16-3/4" |
| 3 | 622489 | 8 | - | CAPSCREW, 1-1/4"NF x 20-7/8" |
| | 623519 | - | 8 | CAPSCREW, 1-1/4"NF x 18-1/2" |
| | 904210 | 16 | 16 | LOCKWASHER, 1-1/4" |
| 4 | 622484 | 8 | 8 | BLOCK, tapped |
| 5 | 035018 | 8 | 8 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 8 | 8 | LOCKWASHER, 1/2" |
| 6 | 622483 | 4 | 4 | BLOCK, beam spacing |
| 7 | 622399 | 2 | - | PLATE, mounting, front track supporting roller |
| | 623731 | - | 2 | PLATE, mounting, front track supporting roller |

(Continued)

## RIGID BEAM (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 8 | 622400 | 4 | - | BLOCK, spacing, roller mounting plate (3-1/8" thick) |
| | 623874 | - | 4 | PLATE, spacing, roller mounting plate (3/4" thick) |
| 9 | 052264 | 4 | 4 | SADDLE, bolt |
| 10 | 078175 | 4 | 4 | CAPSCREW, beam to main frame (1-1/2"NF x 11-1/2") |
| | 913077 | 4 | 4 | LOCKWASHER, 1-1/2" |
| 11 | 073396 | 2 | 2 | SHIM, spacing (1/16" thick. Use as req'd) |
| | 073397 | 6 | 6 | SHIM, spacing (1/8" thick. Use as req'd) |
| | 073398 | 2 | 2 | SHIM, spacing (1/4" thick. Use as req'd) |
| 12 | 065860 | 1 | 1 | SADDLE ASSEMBLY (Includes item 13) |
| 13 | 052256 | 2 | 2 | BUSHING, saddle |
| 14 | 065862 | 4 | 4 | CAPSCREW, saddle (1-1/2"NF x 13-1/4") |
| 15 | 052263 | 4 | 4 | NUT, high, 1-1/2"NF |
| 16 | 622802 | 1 | 1 | PIN, beam saddle |
| | 912497 | 1 | 1 | FITTING, lubricating, straight, 1/4"NPT |
| 17 | 052260 | 1 | 1 | WASHER, pivot pin |
| 18 | 035073 | 3 | 3 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 19 | 622783 | 1 | 1 | PLATE, pivot pin retaining |
| 20 | 035073 | 3 | 3 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 3 | 3 | LOCKWASHER, 1/2" |
| 21 | 035229 | 2 | 2 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 2 | 2 | LOCKWASHER, 5/8" |
| 22 | 040089 | 2 | 2 | WASHER, plain |




T-5148

TRUCK WHEELS

# TRUCK WHEELS

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 622438 | 1 | WHEEL ASSEMBLY, single flange (Consists of items 3 and 5 thru 17)(Models HD21A, F) |
| | 622296 | 1 | WHEEL ASSEMBLY, single flange (Consists of items 3 and 5 thru 17)(Model HD21G) |
| 2 | 622439 | 1 | WHEEL ASSEMBLY, double flange (Consists of items 4 thru 17) (Used prior to tractor #11682) |
| 3 | 076301 | 1 | WHEEL, single flange |
| 4 | 076302 | 1 | WHEEL, double flange (Used prior to tractor #11682) |
| 5 | 622437 | 1 | SHAFT |
| 6 | 076296 | 2 | CONE ASSEMBLY, bearing |
| 7 | 604398 | 2 | CUP, bearing |
| 8 | ------ | 2 | RING, seal, inner (Order item 25) |
| 9 | 905357 | 2 | BALL, steel, 3/16" diam. (See item 25) |
| 10 | 923822 | 2 | O-RING, seal packing (See item 25) |
| 11 | 076294 | 4 | SHIM, bearing adjustment (.007" thick. Use as required) |
| | 076293 | 4 | SHIM, bearing adjustment (.010" thick. Use as required) |
| | 076292 | 2 | SHIM, bearing adjustment (.032" thick. Use as required) |
| 12 | 076299 | 2 | RETAINER, bearing |
| 13 | 035018 | 12 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 12 | LOCKWASHER, 1/2" |
| 14 | ------ | 2 | RING, seal, outer (Order item 25) |
| 15 | 051959 | 2 | SPRING ASSEMBLY, seal (Serviced only as a unit) |
| 16 | 051629 | 2 | BOOT, seal spring (Models HD21A, F) } See item 25 |
| | 622295 | 2 | BOOT, seal spring (high-temperature)(Model HD21G) } See item 25 |
| 17 | 076298 | 2 | RETAINER, seal |
| 18 | 034043 | 1 | GASKET, shaft oil hole plug (Used prior to tractor #12001) |
| 19 | 034042 | 1 | PLUG, shaft oil hole (Used prior to tractor #12001) |
| 20 | 051136 | 2 | BRACKET, attaching (Used prior to tractor #11679 including #11841, 11851, 11859, 11874) |
| | 098744 | 2 | BRACKET, attaching (Effective with tractor #11679 excluding #11841, 11851, 11859, 11874) |
| 21 | 071014 | 4 | CAPSCREW, 3/4"NF x 4-1/2" } Tr. prior to #11679, including |
| | 904369 | 4 | LOCKWASHER, 3/4" } 11841, 11851, 11859, 11874 |
| | 085026 | 4 | CAPSCREW, 7/8"NF x 4-1/2" } Eff. with tr. #11679, excluding |
| | 905347 | 4 | LOCKWASHER, 7/8" } 11841, 11851, 11859, 11874 |
| | 622557 | 4 | CAPSCREW, 7/8"NF x 5-1/2" (Used on first 4 wheels only for Model HD21G, starting with tractor #11725, excluding #11798) |

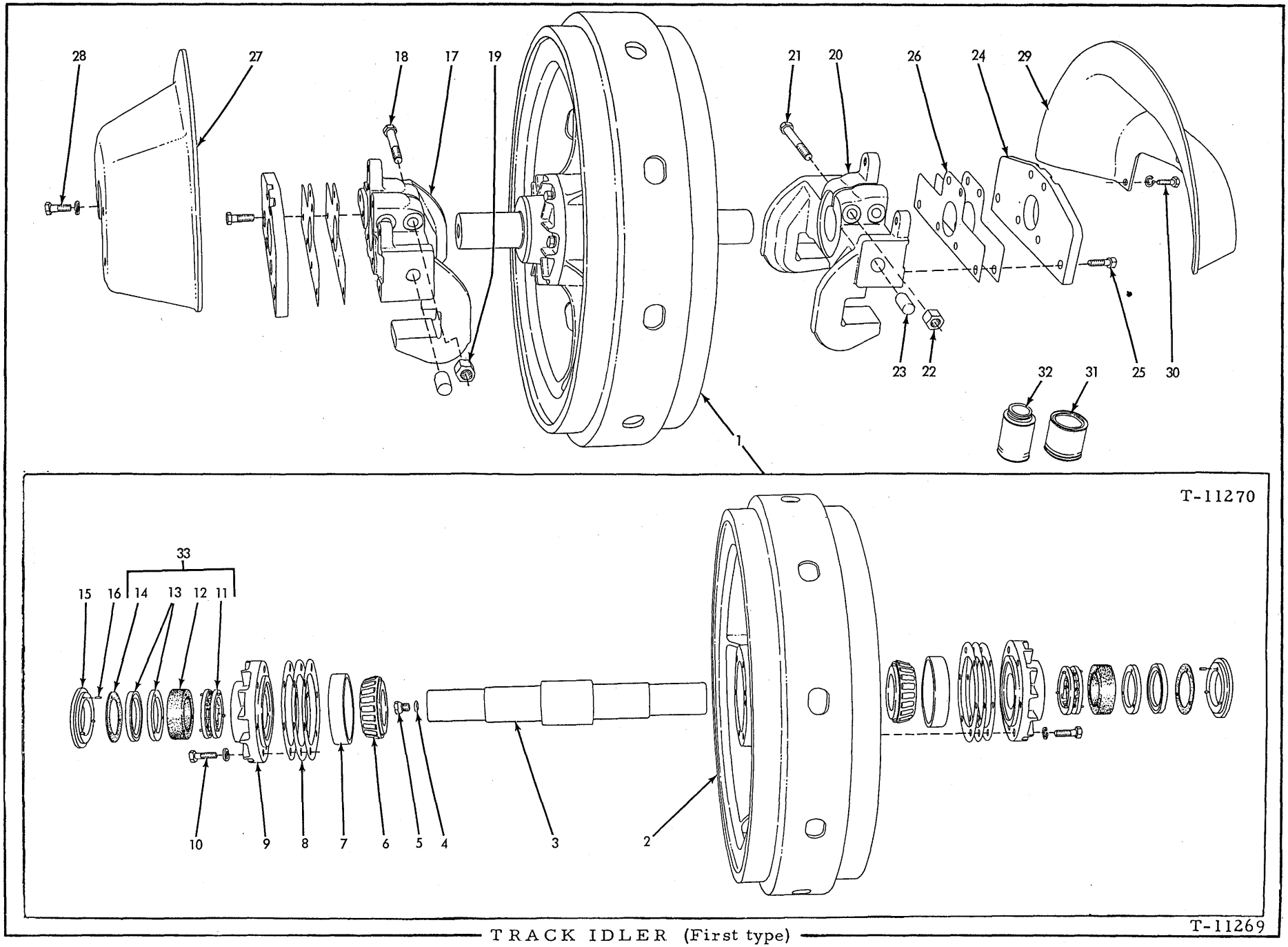
(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 22 | 051919 | 4 | BLOCK, tapped, attaching capscrews (3/4"NF holes)(Used prior to tractor #11679 including #11841, 11851, 11859, 11874) |
| | 098730 | 4 | BLOCK, tapped, attaching capscrews (7/8"NF holes)(Effective with tractor #11679 excluding #11841, 11851, 11859, 11874) |
| 23 | 033288 | - | CEMENT, neoprene, 1/2 pint can } For cementing seal boots |
| 24 | 054890 | - | SOLVENT, neoprene cement, 1/2 pint can } For cementing seal boots |
| 25 | 622234 | 1 | SEAL KIT (Includes parts for one (1) wheel only; items 8, 9, 10, 14 and 16)(Models HD21A, F) |
| | 630031 | 1 | SEAL KIT (Includes parts for one (1) wheel only; items 8, 9, 10, 14 and 16)(Model HD21G) |

NOTE: All quantities indicated above are for one (1) wheel only. Tractors prior to serial No. 11682 used four (4) double-flange wheels. The number of wheels used on the various models is as follows:

Model HD21A (Prior to serial No. 9001) . . . . . 12
Model HD21A (Effective serial No. 9001). . . . . 14
Model HD21F . . . . . 14
Model HD21G . . . . . 16

MEMO

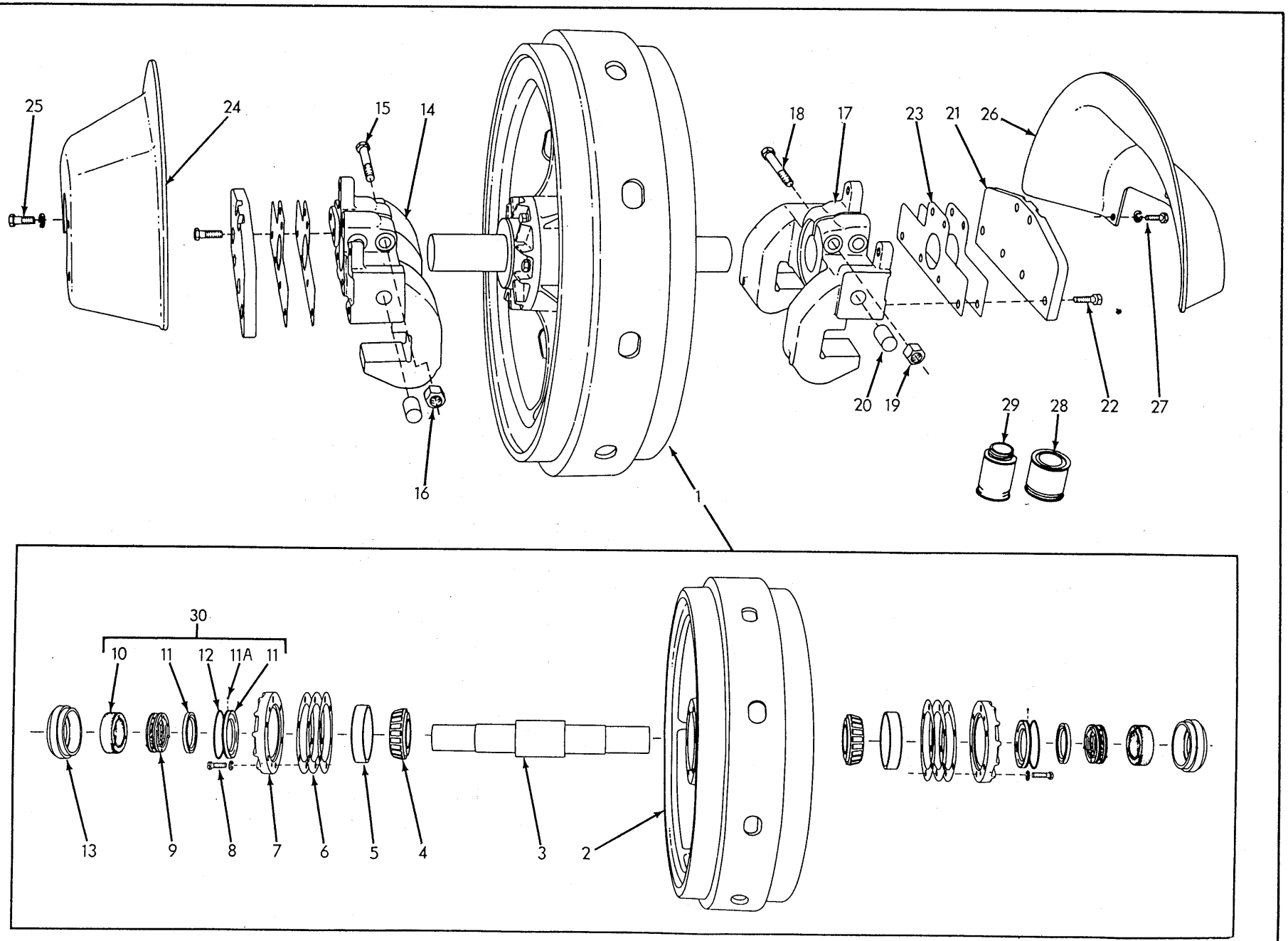



TRACK IDLER (First type)

# TRACK IDLER

USAGE: Models HD21A, F tractors prior to serial No. 12084 and Model HD21G tractors prior to serial No. 12163 excluding Nos. 11817 and 12136.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 2 | IDLER ASSEMBLY, track (Models HD21A, F)(Order IDLER ASSEMBLY 622204) |
| | ------ | 2 | IDLER ASSEMBLY, track (Model HD21G)(Order IDLER ASSEMBLY 630411) |
| 2 | ------ | 2 | IDLER, only (Spoke type. For Models HD21A, F)(Order 1 IDLER 622203 and 6 SHIMS 051614) |
| | ------ | 2 | IDLER, only (Closed-type. For Model HD21G)(Order 1 IDLER 622649 and 6 SHIMS 051614) |
| 3 | 051621 | 2 | SHAFT |
| 4 | 034043 | 2 | GASKET, shaft oil hole plug |
| 5 | 034042 | 2 | PLUG, shaft oil hole |
| 6 | 051630 | 4 | CONE ASSEMBLY, bearing |
| 7 | 051631 | 4 | CUP, bearing |
| 8 | 051614 | 6 | SHIM, bearing adjustment (.032" thick. Use as required) |
| | 051615 | 6 | SHIM, bearing adjustment (.010" thick. Use as required) |
| | 051616 | 6 | SHIM, bearing adjustment (.007" thick. Use as required) |
| 9 | 051617 | 4 | RETAINER, bearing |
| 10 | 023465 | 24 | CAPSCREW, 5/8"NF x 1-3/4" |
| | 904209 | 24 | LOCKWASHER, 5/8" |
| 11 | 051959 | 4 | SPRING ASSEMBLY, seal (Serviced only as a unit)(See item 33) |
| 12 | 051629 | 4 | BOOT, seal (See item 33) |
| 13 | ------ | 8 | RING, seal (Order item 33) |
| 14 | 051622 | 4 | GASKET, seal ring (See item 33) |
| 15 | 051620 | 4 | GUARD ASSEMBLY, seal (Includes item 16) |
| 16 | 051964 | 12 | PIN, seal guard |
| 17 | 622545 | 2 | BRACKET ASSEMBLY, left (Includes item 23) |
| 18 | 051634 | 4 | CAPSCREW, 3/4"NF x 5-3/4" |
| 19 | 012767 | 4 | NUT, high, 3/4"NF |
| 20 | 622546 | 2 | BRACKET ASSEMBLY, right (Includes item 23) |
| 21 | 051634 | 4 | CAPSCREW, 3/4"NF x 5-3/4" |
| 22 | 012767 | 4 | NUT, high, 3/4"NF |
| 23 | 051647 | 4 | PIN, dowel, idler bracket |
| 24 | 637636 | 4 | PLATE, guide |
| 25 | 023465 | 24 | CAPSCREW, 5/8"NF x 1-3/4" |
| 26 | 051640 | 4 | SHIM, guide plate (1/16" thick. Use as required) |
| | 051643 | 8 | SHIM, guide plate (1/32" thick. Use as required) |
| 27 | 084997 | 2 | GUARD, left |
| 28 | 035229 | 6 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 6 | LOCKWASHER, 5/8" |
| 29 | 084998 | 2 | GUARD, right |
| 30 | 035229 | 6 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 6 | LOCKWASHER, 5/8" |
| 31 | 033288 | - | CEMENT, neoprene, 1/2 pint can } For cementing seal boots and gaskets |
| 32 | 054890 | - | SOLVENT, neoprene cement, 1/2 pint can } For cementing seal boots and gaskets |
| 33 | 083535 | 2 | SEAL KIT (Includes parts for one (1) idler only; items 11 thru 14) |

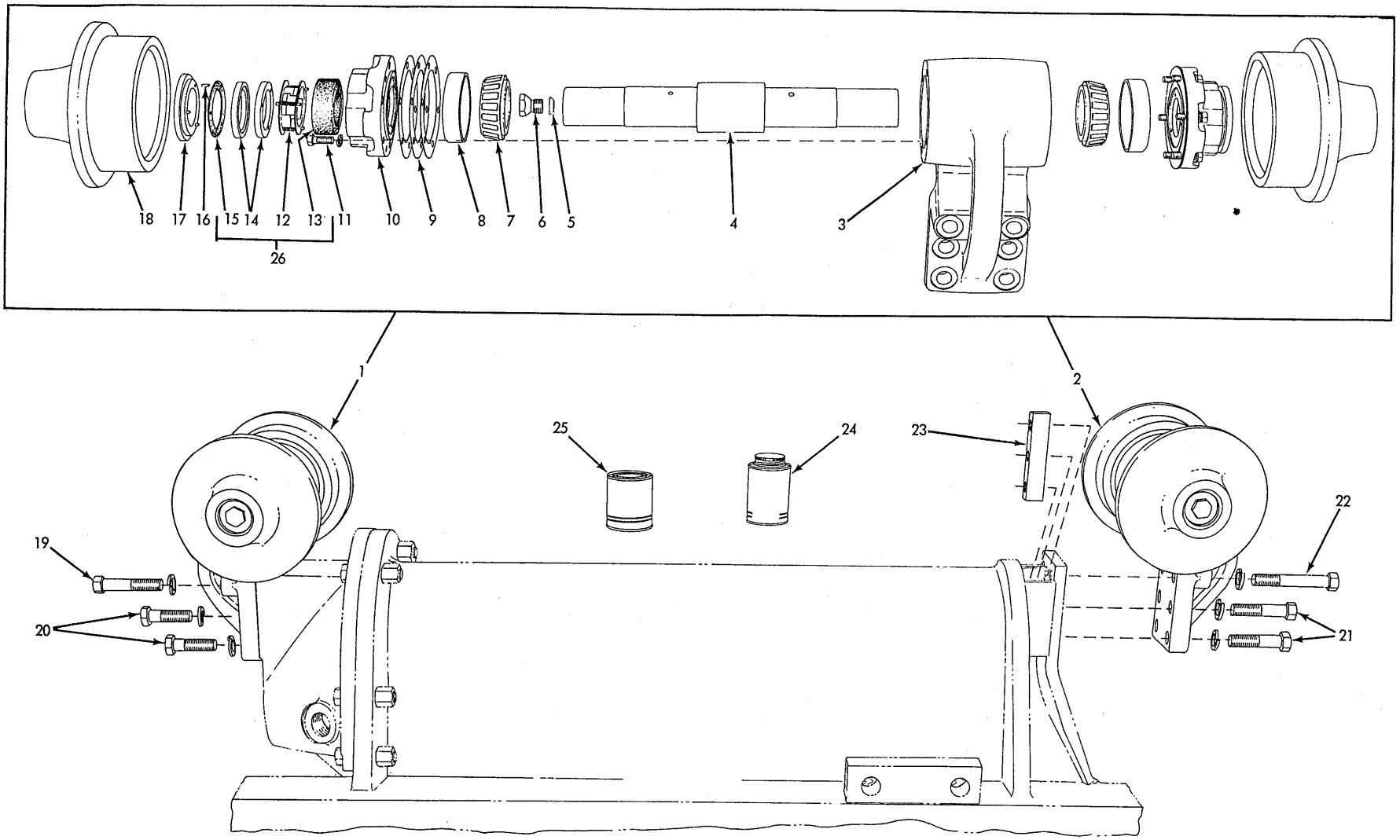



TRACK IDLER (Second type)

# TRACK IDLER

USAGE: Effective on Models HD21A,F with tractor serial No. 12084 and on Model HD21G with tractor serial No. 12163, including Nos. 11817 and 12136

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 622204 | 2 | IDLER ASSEMBLY, track (Consists of items 2 thru 13)(HD21A,F) |
| | 630411 | 2 | IDLER ASSEMBLY, track (Consists of items 2 thru 13)(HD21G) |
| 2 | 622203 | 2 | IDLER, only (Spoke type. For Models HD21A,F) |
| | 622649 | 2 | IDLER, only (Closed-type. For Model HD21G) |
| 3 | ------ | 2 | SHAFT (Models HD21A,F. Original equipment)(Order SHAFT 630361, 2 CONE ASSEMBLY 076296 and 2 CUP 630345) |
| | 630361 | 2 | SHAFT (Model HD21G. Also furnished in service replacement IDLER ASSEMBLY 622204 for Models HD21A,F) |
| 4 | 051630 | 4 | CONE ASSEMBLY, bearing (1-5/8" wide)(Models HD21A,F. Original equipment) |
| | 076296 | 4 | CONE ASSEMBLY, bearing (2-1/8" wide)(Model HD21G. Also furnished in service replacement IDLER ASSEMBLY 622204 for Models HD21A,F) |
| 5 | 051631 | 4 | CUP, bearing (1-1/4" wide)(Models HD21A,F. Original equipment) |
| | 630345 | 4 | CUP, bearing (1-3/4" wide)(Model HD21G. Also furnished in service replacement IDLER ASSEMBLY 622204 for Models HD21A,F) |
| 6 | 051614 | 6 | SHIM, bearing adjustment (.032" thick. Use as required) |
| | 051615 | 6 | SHIM, bearing adjustment (.010" thick. Use as required) |
| | 051616 | 6 | SHIM, bearing adjustment (.007" thick. Use as required) |
| 7 | 622202 | 4 | RETAINER, bearing |
| 8 | 023465 | 24 | CAPSCREW, 5/8"NF x 1-3/4" |
| | 904209 | 24 | LOCKWASHER, 5/8" |
| 9 | 051959 | 4 | SPRING ASSEMBLY, seal (Serviced only as a unit) |
| 10 | 051629 | 4 | BOOT, seal (See item 30) |
| 11 | ------ | 4 | RING, seal, inner } Order item 30 |
| | ------ | 4 | RING, seal, outer } Order item 30 |
| 11A | 905357 | 4 | BALL, steel, 3/16" diam. (See item 30) |
| 12 | 923822 | 4 | O-RING, seal packing (See item 30) |
| 13 | 622199 | 4 | RETAINER, seal follower |
| 14 | 622545 | 2 | BRACKET ASSEMBLY, left (Includes item 20) |
| 15 | 051634 | 4 | CAPSCREW, 3/4"NF x 5-3/4" |
| 16 | 012767 | 4 | NUT, high, 3/4"NF |
| 17 | 622546 | 2 | BRACKET ASSEMBLY, right (Includes item 20) |
| 18 | 051634 | 4 | CAPSCREW, 3/4"NF x 5-3/4" |
| 19 | 012767 | 4 | NUT, high, 3/4"NF |
| 20 | 051647 | 4 | PIN, dowel, idler bracket |
| 21 | 637636 | 4 | PLATE, guide |
| 22 | 023465 | 24 | CAPSCREW, 5/8"NF x 1-3/4" |
| 23 | 051640 | 4 | SHIM, guide plate (.062" thick. Use as required) |
| | 051643 | 8 | SHIM, guide plate (.031" thick. Use as required) |
| 24 | 084997 | 2 | GUARD, left |
| 25 | 035229 | 6 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 6 | LOCKWASHER, 5/8" |
| 26 | 084998 | 2 | GUARD, right |
| 27 | 035229 | 6 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 6 | LOCKWASHER, 5/8" |
| 28 | 033288 | - | CEMENT, neoprene, 1/2 pint can } For cementing seal boots and gaskets |
| 29 | 054890 | - | SOLVENT, neoprene cement, 1/2 pint can } For cementing seal boots and gaskets |
| 30 | 622234 | 2 | SEAL KIT (Includes parts for one (1) idler only; items 10 thru 12) |



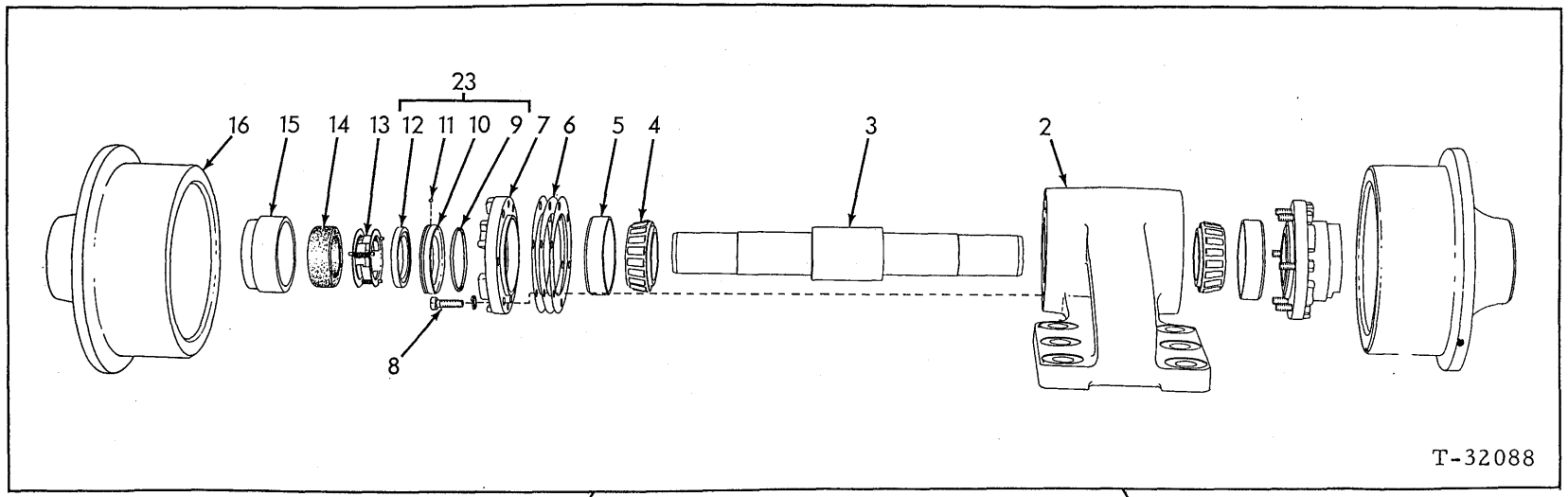

TRACK SUPPORTING ROLLER (First type)

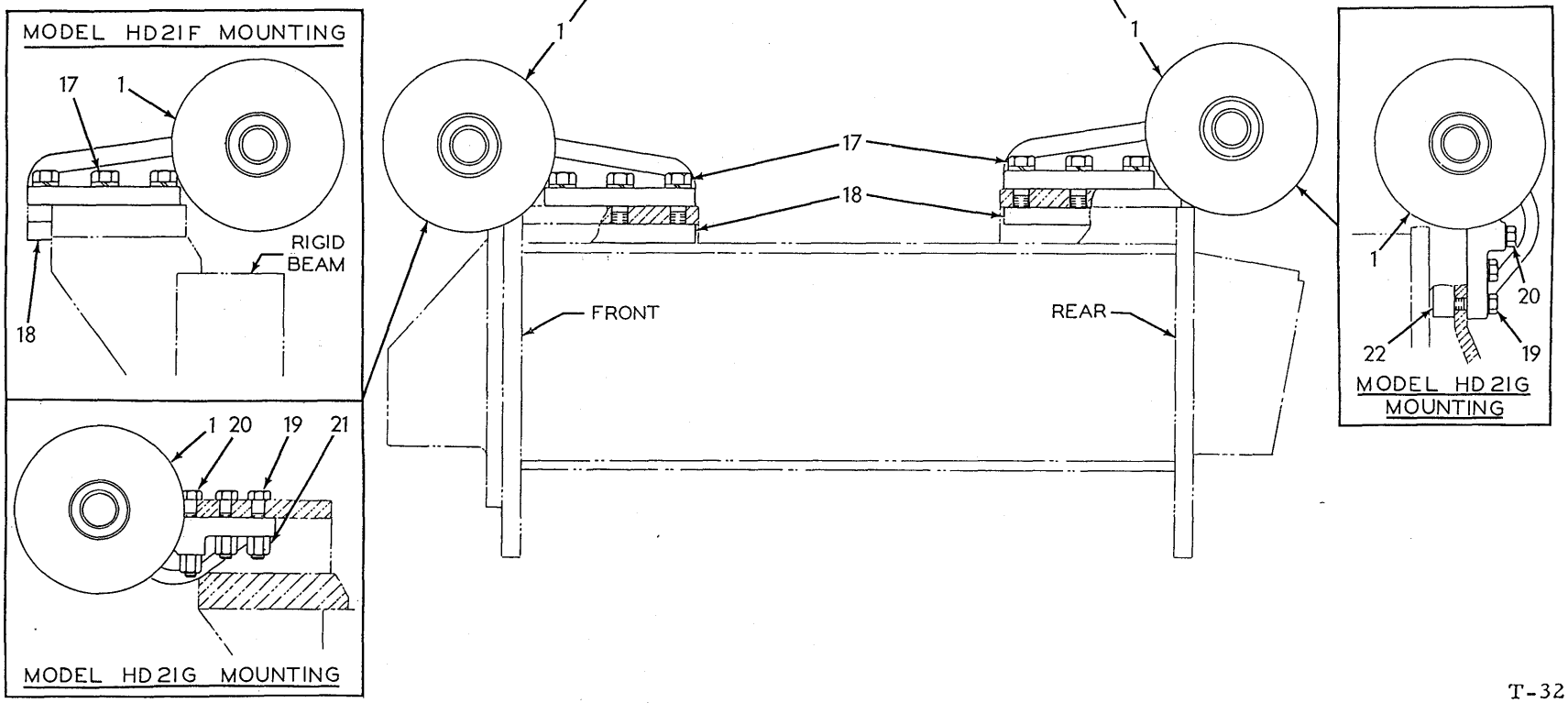
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# TRACK SUPPORTING ROLLER

USAGE: Model HD21A tractors prior to serial No. 12001
Model HD21F tractors prior to serial No. 12015
Model HD21G tractors prior to serial No. 12012

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 2 | ROLLER ASSEMBLY, track supporting, left front and right rear (Consists of items 3 thru 18)(Order ROLLER ASSEMBLY 623890) |
| 2 | ------ | 2 | ROLLER ASSEMBLY, track supporting, right front and left rear (Consists of items 3 thru 18)(Order ROLLER ASSEMBLY 623890) |
| 3 | 077504 | 4 | BRACKET |
| 4 | 623827 | 4 | SHAFT |
| 5 | 034043 | 4 | GASKET, oil hole plug |
| 6 | 034042 | 4 | PLUG, shaft oil hole |
| 7 | 043491 | 8 | CONE ASSEMBLY, bearing |
| 8 | 210740 | 8 | CUP, bearing |
| 9 | 051803 | 16 | SHIM, bearing adjustment (.007" thick. Use as required) |
| | 051804 | 16 | SHIM, bearing adjustment (.010" thick. Use as required) |
| | 051805 | 8 | SHIM, bearing adjustment (.032" thick. Use as required) |
| 10 | 051808 | 8 | RETAINER, bearing |
| 11 | 013058 | 48 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 48 | LOCKWASHER, 3/8" |
| 12 | 048666 | 8 | SPRING ASSEMBLY, seal (Serviced only as a unit) } See item 26 |
| 13 | 048665 | 8 | BOOT, seal } See item 26 |
| 14 | 048658 | 16 | RING, seal } See item 26 |
| 15 | 050251 | 8 | GASKET, seal ring } See item 26 |
| 16 | 049877 | 24 | PIN, seal guard |
| 17 | 051811 | 8 | GUARD ASSEMBLY, seal (Includes item 16) |
| 18 | 623829 | 8 | ROLLER (Order in pairs when making first replacement) |
| 19 | 013095 | 4 | CAPSCREW, 3/4"NC x 3-1/2" (Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| | 035423 | 4 | CAPSCREW, 3/4"NF x 4-1/4" (Effective on Model HD21G with tractor #11725, excluding #11798) |
| | 012767 | 4 | NUT, high, 3/4"NF |
| 20 | 070792 | 8 | CAPSCREW, 3/4"NC x 2-1/2" (Not used on Model HD21G after tractor #11724, excluding #11798) |
| | 904369 | 8 | LOCKWASHER, 3/4"NF |
| | 012526 | 8 | CAPSCREW, 3/4"NF x 3-1/4" (Effective on Model HD21G with tractor #11725, excluding #11798) |
| | 012767 | 8 | NUT, high, 3/4"NF |
| 21 | 012526 | 8 | CAPSCREW, 3/4"NF x 3-1/4" |
| | 904369 | 8 | LOCKWASHER, 3/4" |
| 22 | 035423 | 4 | CAPSCREW, 3/4"NF x 4-1/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 23 | 078082 | 4 | BLOCK, tapped, attaching capscrews |
| 24 | 054890 | - | SOLVENT, neoprene cement, 1/2 pint can } For cementing seal boots and gaskets |
| 25 | 033288 | - | CEMENT, neoprene, 1/2 pint can } For cementing seal boots and gaskets |
| 26 | 083213 | 4 | SEAL KIT (Includes parts for one (1) roller only; items 12 thru 15) |



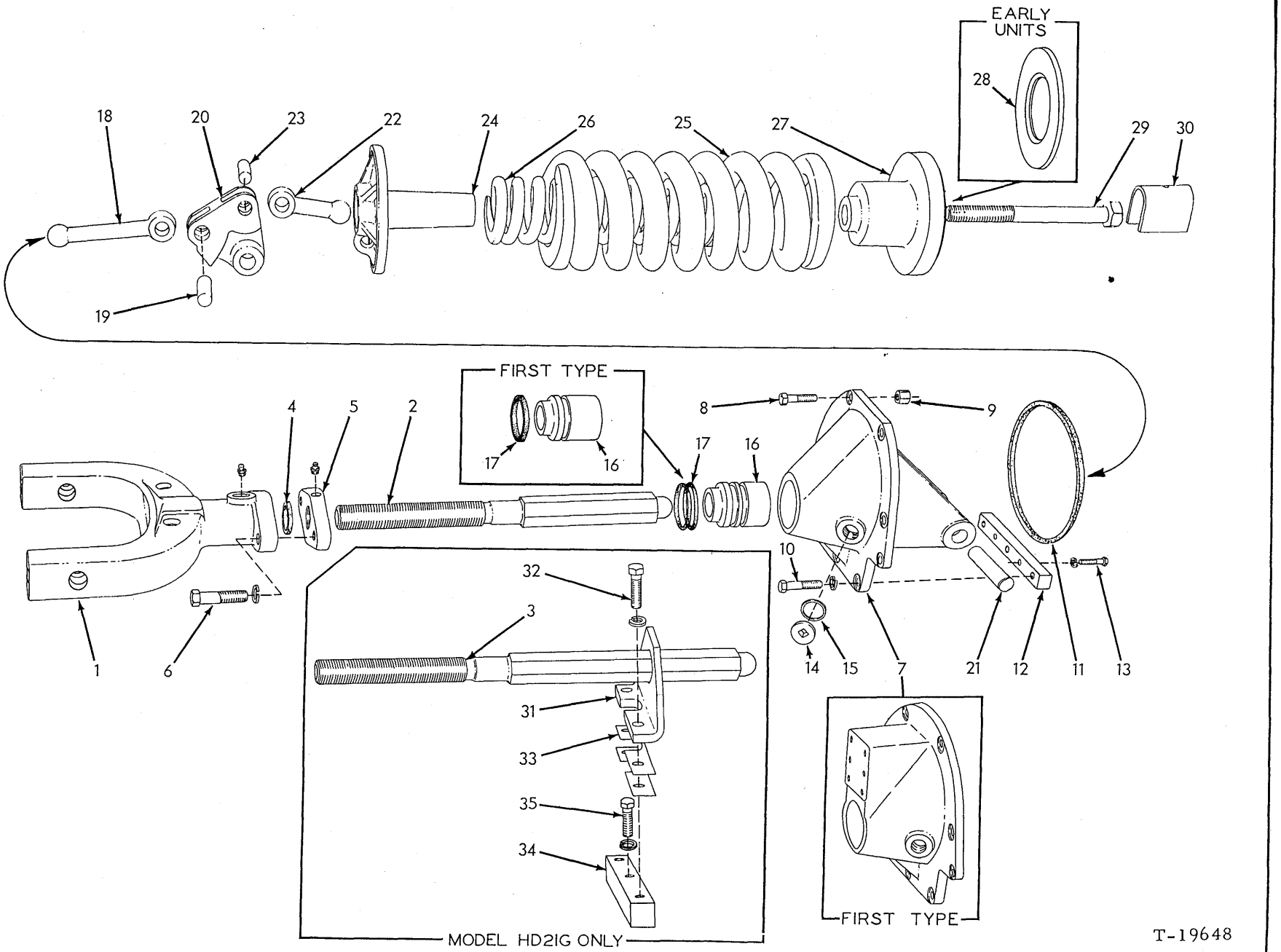




TRACK SUPPORTING ROLLER (Second type)

# TRACK SUPPORTING ROLLER

* Model HD21A tractors serial No. 12001 and up
** Model HD21F tractors serial No. 12015 and up
*** Model HD21G tractors serial No. 12012 and up

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 623825 | 4 | 4 | - | ROLLER ASSEMBLY (Consists of items 2 thru 16) |
| | 623890 | - | - | 4 | ROLLER ASSEMBLY (Consists of items 2 thru 16) |
| 2 | 623828 | 4 | 4 | - | BRACKET |
| | 077504 | - | - | 4 | BRACKET |
| 3 | 623827 | 4 | 4 | 4 | SHAFT |
| 4 | 043491 | 8 | 8 | 8 | CONE ASSEMBLY, bearing |
| 5 | 210740 | 8 | 8 | 8 | CUP, bearing |
| 6 | 073024 | 16 | 16 | - | SHIM, bearing adjustment (.007" thick. Use as required) |
| | 051803 | - | - | 16 | SHIM, bearing adjustment (.007" thick. Use as required) |
| | 073025 | 16 | 16 | - | SHIM, bearing adjustment (.010" thick. Use as required) |
| | 051804 | - | - | 16 | SHIM, bearing adjustment (.010" thick. Use as required) |
| | 073026 | 8 | 8 | - | SHIM, bearing adjustment (.032" thick. Use as required) |
| | 051805 | - | - | 16 | SHIM, bearing adjustment (.032" thick. Use as required) |
| 7 | 073023 | 8 | 8 | - | RETAINER, bearing |
| | 628806 | - | - | 8 | RETAINER, bearing |
| 8 | 013058 | 48 | 48 | 48 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 48 | 48 | 48 | LOCKWASHER, 3/8" |
| 9 | 073029 | 8 | 8 | 8 | O-RING, seal packing (See item 23) |
| 10 | ------ | 8 | 8 | 8 | RING, seal, inner (Order item 23) |
| 11 | 905357 | 8 | 8 | 8 | BALL, steel, 3/16" diam. (See item 23) |
| 12 | ------ | 8 | 8 | 8 | RING, seal, outer (Order item 23) |
| 13 | 048666 | 8 | 8 | 8 | SPRING ASSEMBLY, seal (Serviced only as a unit) |
| 14 | 048665 | 8 | 8 | 8 | BOOT, seal spring |
| 15 | 073634 | 8 | 8 | 8 | RETAINER, seal |
| 16 | 623829 | 8 | 8 | 8 | ROLLER |
| 17 | 012762 | 24 | 24 | - | CAPSCREW, attaching (7/8"NF x 3-1/4") |
| | 905347 | 24 | 24 | - | LOCKWASHER,7/8" |
| 18 | 623826 | 8 | 8 | - | BLOCK, tapped, attaching capscrews (7/8"NF) |
| 19 | 012526 | - | - | 16 | CAPSCREW, attaching (3/4"NF x 3-1/4") |
| | 904369 | - | - | 8 | LOCKWASHER, 3/4" |
| 20 | 035423 | - | - | 8 | CAPSCREW, attaching (3/4"NF x 4-1/4") |
| | 904369 | - | - | 4 | LOCKWASHER, 3/4" |
| 21 | 012767 | - | - | 12 | NUT, attaching capscrew (high, 3/4"NF) |
| 22 | 078082 | - | - | 2 | BLOCK, tapped, attaching capscrews (3/4"NF) |
| 23 | 078941 | 4 | 4 | 4 | SEAL KIT (Includes parts for one (1) roller only: items 9 thru 12) |



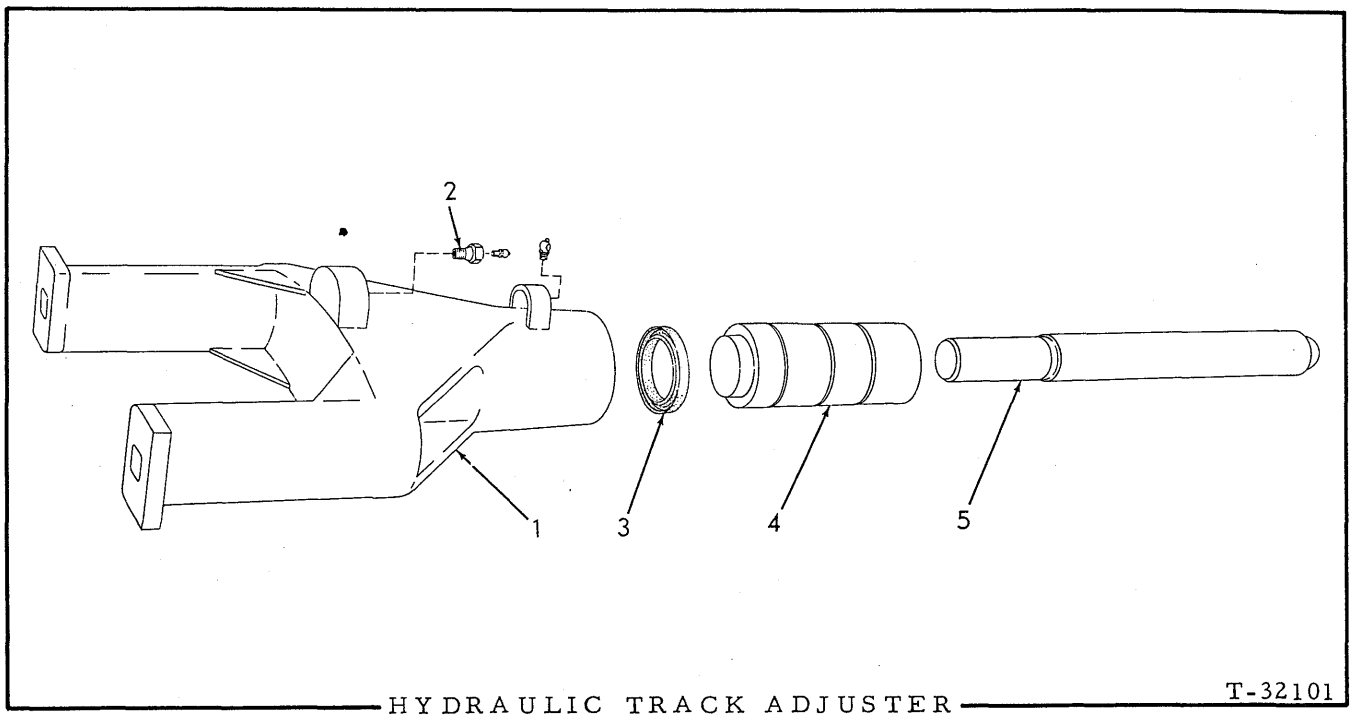

TRACK RELEASE

* Models HD21A, F
** Models HD21G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| | | | | NOTE: See page 439 for optional hydraulic track adjuster |
| 1 | 086922 | 2 | 2 | YOKE |
| | 910018 | 2 | 2 | PLUG, expansion, 3" diam. (Used prior to tractor #11730) |
| | 914465 | 2 | 2 | FITTING, lubricating, straight, 1/8"NPT (Effective with tractor #11407) |
| 2 | 051785 | 2 | - | SCREW, adjustment (16-1/2" long)(Model HD21A tractors only prior to #9001) |
| | 073063 | 2 | - | SCREW, adjustment (30-1/8" long)(Model HD21F tractors; also Model HD21A tractors effective with #9001) |
| 3 | 095286 | - | 2 | SCREW, adjustment (39-1/2" long) |
| 4 | 066066 | 2 | 2 | SEAL, protecting, adjustment screw threads (rubber) |
| 5 | 051787 | 2 | 2 | LOCK, adjustment screw |
| | 914465 | 2 | 2 | FITTING, lubricating, straight, 1/8"NPT (Effective with tractor #11407) |
| 6 | 012586 | 4 | 4 | CAPSCREW, 1"NF x 3-1/2" |
| | 910916 | 4 | 4 | LOCKWASHER, 1" |
| 7 | 078083 | 2 | 2 | GUIDE, crosshead (Used prior to HD21A-12001, HD21F-12015, HD21G-12012) |
| | 623941 | 2 | 2 | GUIDE, crosshead (Effective with HD21A-12001, HD21F-12015, HD21G-12012) |
| 8 | 012984 | 12 | 12 | CAPSCREW, 3/4"NF x 2-3/4" |
| 9 | 012767 | 12 | 12 | NUT, high, 3/4"NF |
| 10 | 012526 | 6 | 6 | CAPSCREW, 3/4"NF x 3" |
| | 904369 | 6 | 6 | LOCKWASHER, 3/4" |
| 11 | 051786 | 2 | 2 | GASKET, crosshead guide |
| 12 | 051812 | 2 | 2 | BLOCK, tapped, crosshead guide mounting |
| 13 | 035712 | 4 | 4 | CAPSCREW, 1/2"NC x 2-1/4" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 14 | 035250 | 4 | 4 | PLUG, crosshead guide filling hole |
| 15 | 035249 | 4 | 4 | GASKET, crosshead guide filling hole plug |
| 16 | ------ | 2 | 2 | CROSSHEAD (Used prior to tractor #11861, excluding #11853, 11854, 11855)(Order CROSSHEAD 621204 and 2 O-RINGS 081692) |
| | 621204 | 2 | 2 | CROSSHEAD (Effective with tractor #11861, including #11853, 11854, 11855) |
| 17 | 051794 | 2 | 2 | SEAL, crosshead (Used prior to tractor #11861, excluding #11853, 11854, 11855) |
| | 923831 | 4 | 4 | O-RING, crosshead (Effective with tractor #11861, including #11853, 11854, 11855) |
| 18 | 051797 | 2 | 2 | ROD, push, front |
| 19 | 051798 | 2 | 2 | PIN, front push rod |

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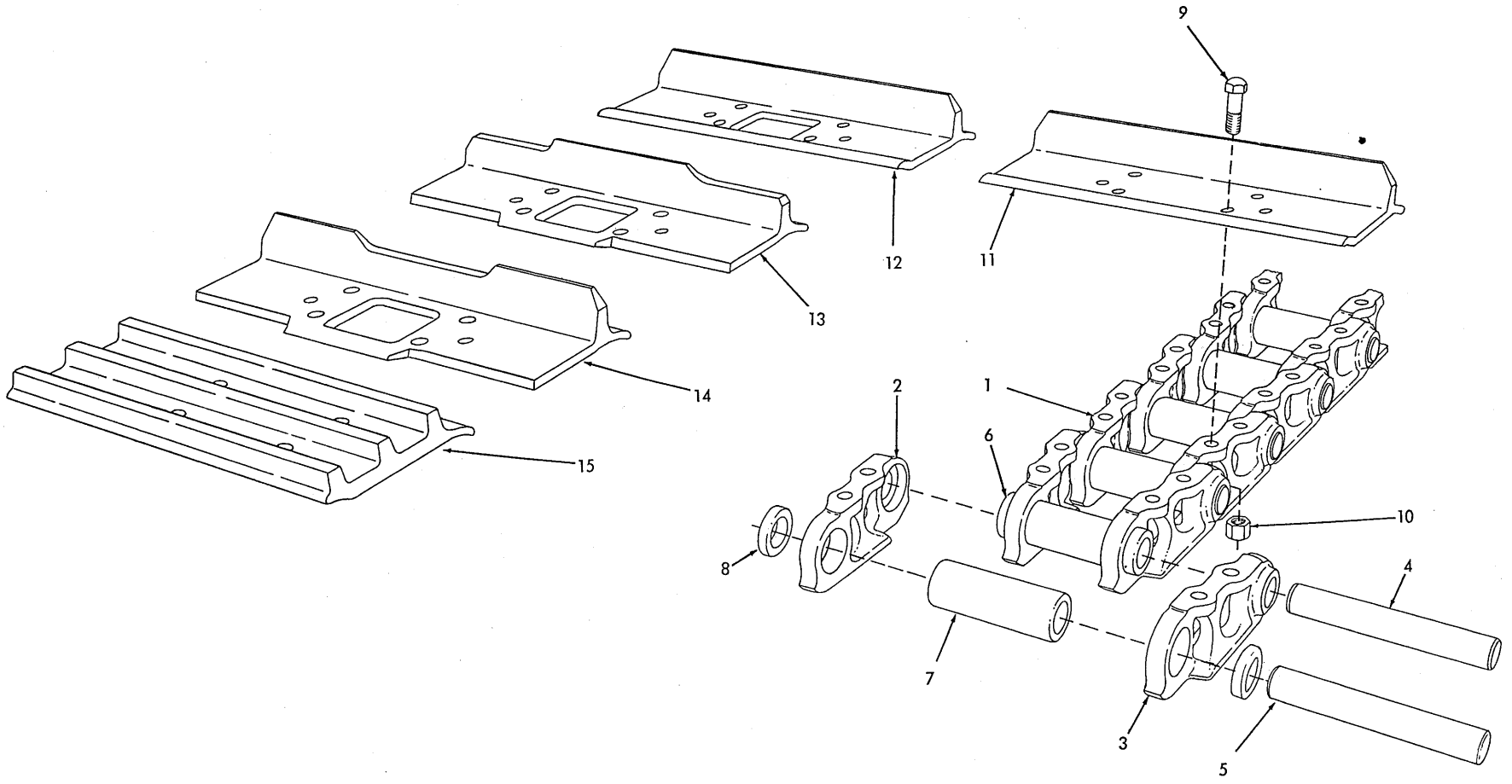
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 20 | 066062 | 2 | 2 | BELLCRANK |
| 21 | 051799 | 2 | 2 | PIN, bellcrank pivot |
| 22 | 051796 | 2 | 2 | ROD, push, rear |
| 23 | 051798 | 2 | 2 | PIN, rear push rod |
| 24 | 051790 | 2 | 2 | PLUNGER, spring |
| 25 | 051800 | 2 | 2 | SPRING, outer |
| 26 | 059179 | 2 | 2 | SPRING, inner |
| 27 | 064820 | 2 | 2 | SEAT, spring (7/8" thick flange)(Used prior to tractor #11726) |
| | 095529 | 2 | 2 | SEAT, spring (1-1/4" thick flange)(Effective with tractor #11726) |
| 28 | 095328 | 2 | 2 | SPACER, spring seat (3/8" thick)(Used on tractor #11371 thru #11725) |
| 29 | 064819 | 2 | 2 | CAPSCREW, spring adjustment |
| 30 | 051795 | 2 | 2 | LOCK, spring adjustment capscrew |
| 31 | 093569 | - | 2 | BRACKET, supporting, adjustment screw (3" hole)(Used on tractors #9067 thru #11271) |
| | 095287 | - | 2 | BRACKET, supporting, adjustment screw (3-1/4" hole) (Effective with tractor #11272) |
| 32 | 023618 | - | 4 | CAPSCREW, 5/8"NF x 2-1/2" |
| | 904209 | - | 4 | LOCKWASHER, 5/8" |
| 33 | 098088 | - | 6 | SHIM, aligning, adjustment screw bracket (Use as req'd) |
| 34 | 093431 | - | 2 | BLOCK, tapped(Effective with tractor #9067) |
| 35 | 035229 | - | 2 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | - | 2 | LOCKWASHER, 5/8" |




HYDRAULIC TRACK ADJUSTER T-32101

USAGE: Special equipment

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 624208 | 2 | YOKE ASSEMBLY (Includes items 2 thru 4 and FITTINGS indented below) |
| | 915275 | 2 | FITTING, lubricating, 65°, 1/8"NPT |
| 2 | 628915 | 2 | VALVE ASSEMBLY, relief (Serviced only as a unit) |
| | 918188 | 2 | FITTING, 90°, 1/4" taper thread (pressurizing)(Original equipment) |
| | 912808 | 2 | FITTING, straight, 1/4" taper thread (pressurizing)(Service replacement) |
| 3 | 628914 | 2 | SEAL, piston |
| 4 | 628913 | 2 | PISTON, adjusting |
| 5 | 628163 | 2 | BAR, push (25-1/2" long)(Models HD21A, F) |
| | 628164 | 2 | BAR, push (34-1/2" long)(Model HD21G) |




T-11278

TRACK (First type)

# TRACK

USAGE: Tractors prior to serial No. 12349. See page 447 for sealed-type tracks supplied for service replacement.

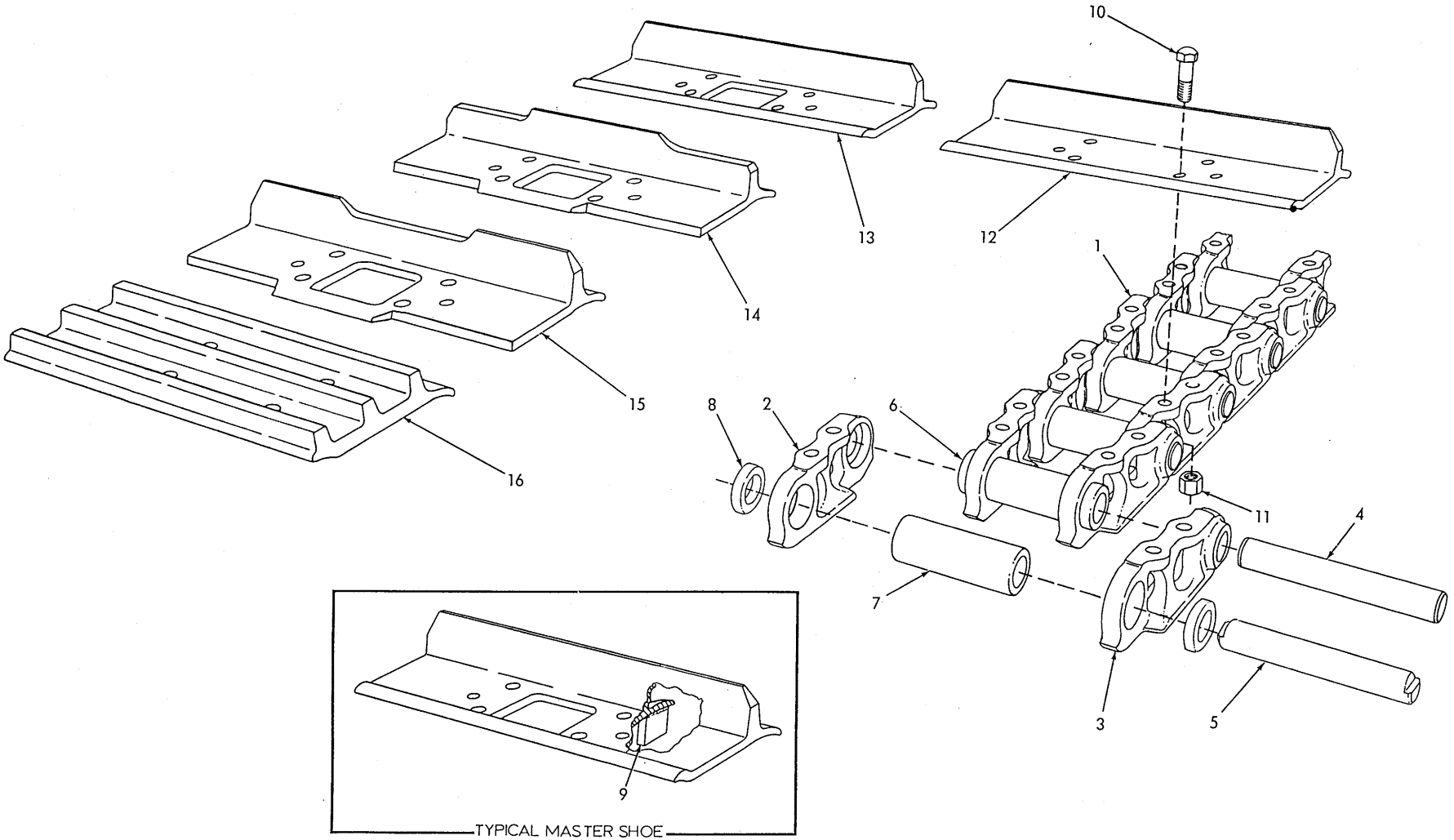
* Model HD21A tractors prior to serial No. 9001.
** Model HD21A tractors effective with serial No. 9001 and all Model HD21F tractors.
*** Model HD21G tractors

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | ------ | 2 | - | - | RAIL ASSEMBLY (37 links)(Order RAIL ASSEMBLY 647652) |
| | ------ | - | 2 | - | RAIL ASSEMBLY (40 links)(Order RAIL ASSEMBLY 645921) |
| | ------ | - | - | 2 | RAIL ASSEMBLY (42 links)(Order RAIL ASSEMBLY 647468) |
| 2 | 631389 | 74 | 80 | 84 | BAR, left |
| 3 | 631390 | 74 | 80 | 84 | BAR, right |
| 4 | 079601 | 72 | 78 | 82 | PIN |
| 5 | 621294 | 2 | 2 | 2 | PIN, master |
| 6 | ------ | 72 | 78 | 82 | BUSHING (Order BUSHING 645783 and 2 SEALS 645784) |
| 7 | 645768 | 2 | 2 | 2 | BUSHING, master |
| 8 | 631397 | 4 | 4 | 4 | SPACER, master bushing |
| 9 | 097056 | 296 | 320 | 336 | BOLT, track shoe (2-5/8" long) |
| | 097053 | 296 | 320 | 336 | BOLT, track shoe (2-15/16" long)(For use with semi-grouser shoes only) |
| 10 | 083544 | 296 | 320 | 336 | NUT, track shoe bolt |

## TRACK SHOES

| | | | | | |
|---|---|---|---|---|---|
| 11 | 623469 | 74 | 80 | - | SHOE, grouser, 22" |
| | 623009 | 74 | 80 | - | SHOE, grouser, 24" |
| | 623386 | 74 | 80 | - | SHOE, grouser, 26" |
| | 623392 | 74 | 80 | - | SHOE, grouser, 28" |
| | 623379 | - | - | 42 | SHOE, grouser, left side, 22" |
| | 623380 | - | - | 42 | SHOE, grouser, right side, 22" |
| 12 | 623289 | 74 | 80 | - | SHOE, grouser, cut-out, 24" |
| 13 | 623444 | 38 | 40 | - | SHOE, grouser, snow and ice, single calk, cut-out, 24" |
| 14 | 623418 | 36 | 40 | - | SHOE, grouser, snow and ice, double calk, cut-out, 24" |
| 15 | 082165 | 37 | 40 | 42 | SHOE, semi-grouser, left side, 22" |
| | 082166 | 37 | 40 | 42 | SHOE, semi-grouser, right side, 22" |
| | 090874 | 74 | 80 | - | SHOE, semi-grouser, 24" |

NOTE: Complete TRACK ASSEMBLIES with SHOES are available only in the sealed-type as listed on page 447.




TRACK (Second type)

T-36246

# TRACK

USAGE: Tractors serial No. 12349 and up. Original equipment. See page 447 for sealed-type tracks supplied for service replacement.

* Models HD21A, F
** Model HD21G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 2 | - | RAIL ASSEMBLY (40 links)(Consists of items 2 thru 9)(Order RAIL ASSEMBLY 645921) |
| | ------ | - | 2 | RAIL ASSEMBLY (42 links)(Consists of items 2 thru 9)(Order RAIL ASSEMBLY 647468) |
| 2 | 631389 | 78 | 82 | BAR, left |
| | 631395 | 2 | 2 | BAR, master, left |
| 3 | 631390 | 78 | 82 | BAR, right |
| | 631396 | 2 | 2 | BAR, master, right |
| 4 | 079601 | 78 | 82 | PIN |
| 5 | 629794 | 2 | 2 | PIN, master |
| 6 | ------ | 78 | 82 | BUSHING (Order BUSHING 645783 and 2 SEALS 645784) |
| 7 | 645768 | 2 | 2 | BUSHING, master |
| 8 | 631397 | 4 | 4 | SPACER, master bushing |
| 9 | 630208 | 2 | 2 | BLOCK KIT, master pin retaining (Each consists of 2 BLOCKS and welding instructions. Use to convert standard shoe to master shoe) |
| 10 | 097056 | 320 | 336 | BOLT, track shoe (2-5/8" long) |
| | 097053 | 320 | 336 | BOLT, track shoe (2-15/16" long)(For use with semi-grouser shoes only) |
| 11 | 083544 | 320 | 336 | NUT, track shoe bolt |

## TRACK SHOES

NOTE: Each master shoe listed below includes item 9 as an installed component

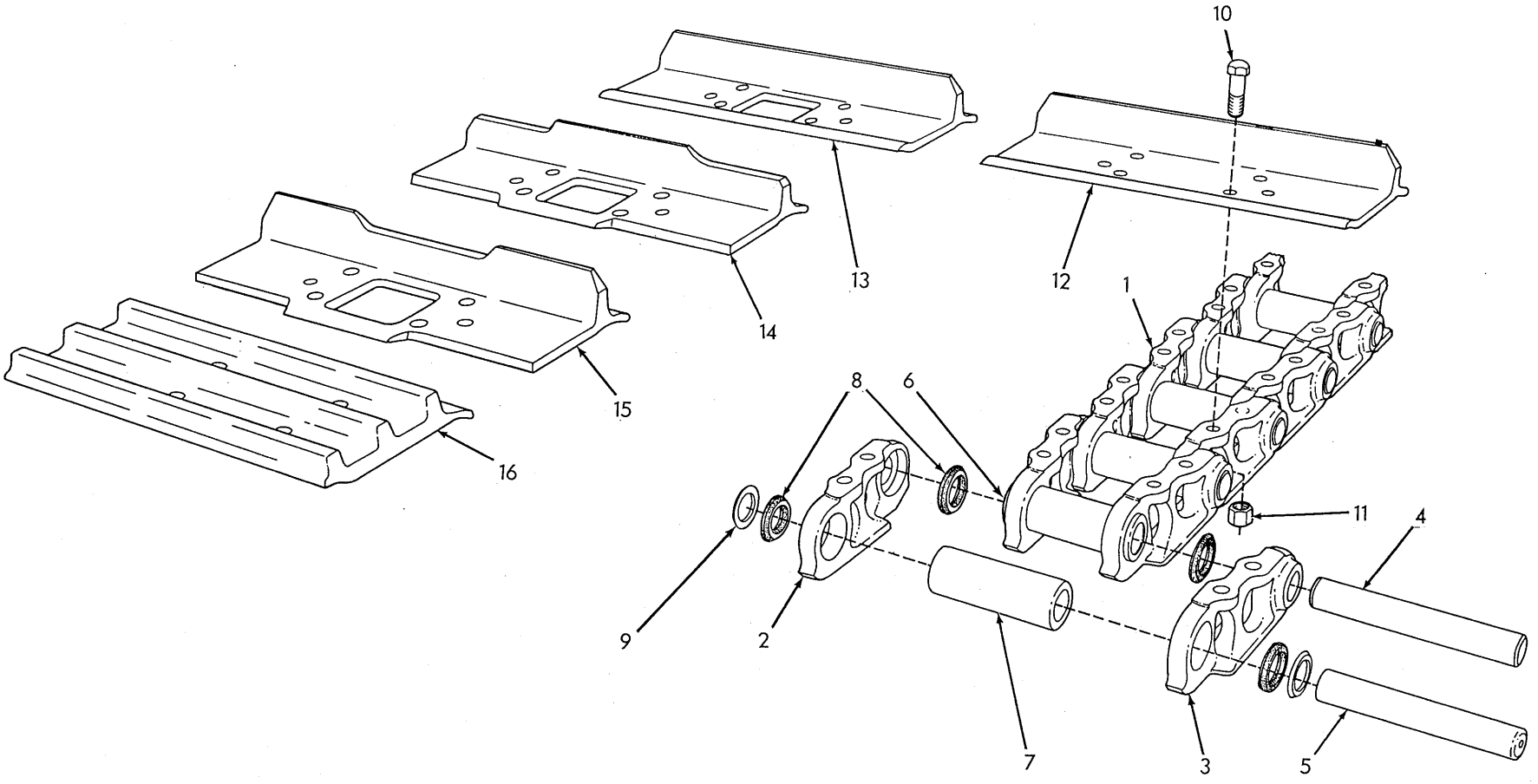
| | | | | |
|---|---|---|---|---|
| 12 | 623469 | 78 | - | SHOE, grouser, 22" |
| | ------ | 2 | - | SHOE, grouser, 22", master (Order SHOE 623469 and item 9) |
| | 623009 | 78 | - | SHOE, grouser, 24" |
| | 629777 | 2 | - | SHOE, grouser, 24", master |
| | 623386 | 78 | - | SHOE, grouser, 26" |
| | 630002 | 2 | - | SHOE, grouser, 26", master |

Item 12 continued on next page

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 12 | 623392 | 78 | - | SHOE, grouser, 28" |
| | 629815 | 2 | - | SHOE, grouser, 28", master |
| | 623379 | - | 41 | SHOE, grouser, left side, 22" |
| | ------ | - | 1 | SHOE, grouser, left side, 22", master (Order SHOE 623379 and item 9) |
| | 623380 | - | 41 | SHOE, grouser, right side, 22" |
| | ------ | - | 1 | SHOE, grouser, right side, 22", master (Order SHOE 623380 and item 9) |
| 13 | 623289 | 78 | - | SHOE, grouser, cut-out, 24" |
| | ------ | 2 | - | SHOE, grouser, cut-out, 24", master (Order SHOE 623289 and item 9) |
| 14 | 623444 | 40 | - | SHOE, grouser, snow and ice, single calk, cut-out, 24" |
| 15 | 623418 | 38 | - | SHOE, grouser, snow and ice, double calk, cut-out, 24" |
| | ------ | 2 | - | SHOE, grouser, snow and ice, double calk, cut-out, 24" master (Order SHOE 623418 and item 9) |
| 16 | 082165 | 39 | 41 | SHOE, semi-grouser, left side, 22" |
| | 629805 | 1 | 1 | SHOE, semi-grouser, master left side, 22" |
| | 082166 | 39 | 41 | SHOE, semi-grouser, right side, 22" |
| | 629806 | 1 | 1 | SHOE, semi-grouser, master, right side, 22" |
| | 090874 | 78 | - | SHOE, semi-grouser, 24" |
| | ------ | 2 | - | SHOE, semi-grouser, master, 24" (Order SHOE 090874 and item 9) |

NOTE: Complete TRACK ASSEMBLIES with SHOES are available only in the sealed-type as listed on page 447.

MEMO




TRACK (Third type)

T-71229

# TRACK
(Sealed-type)

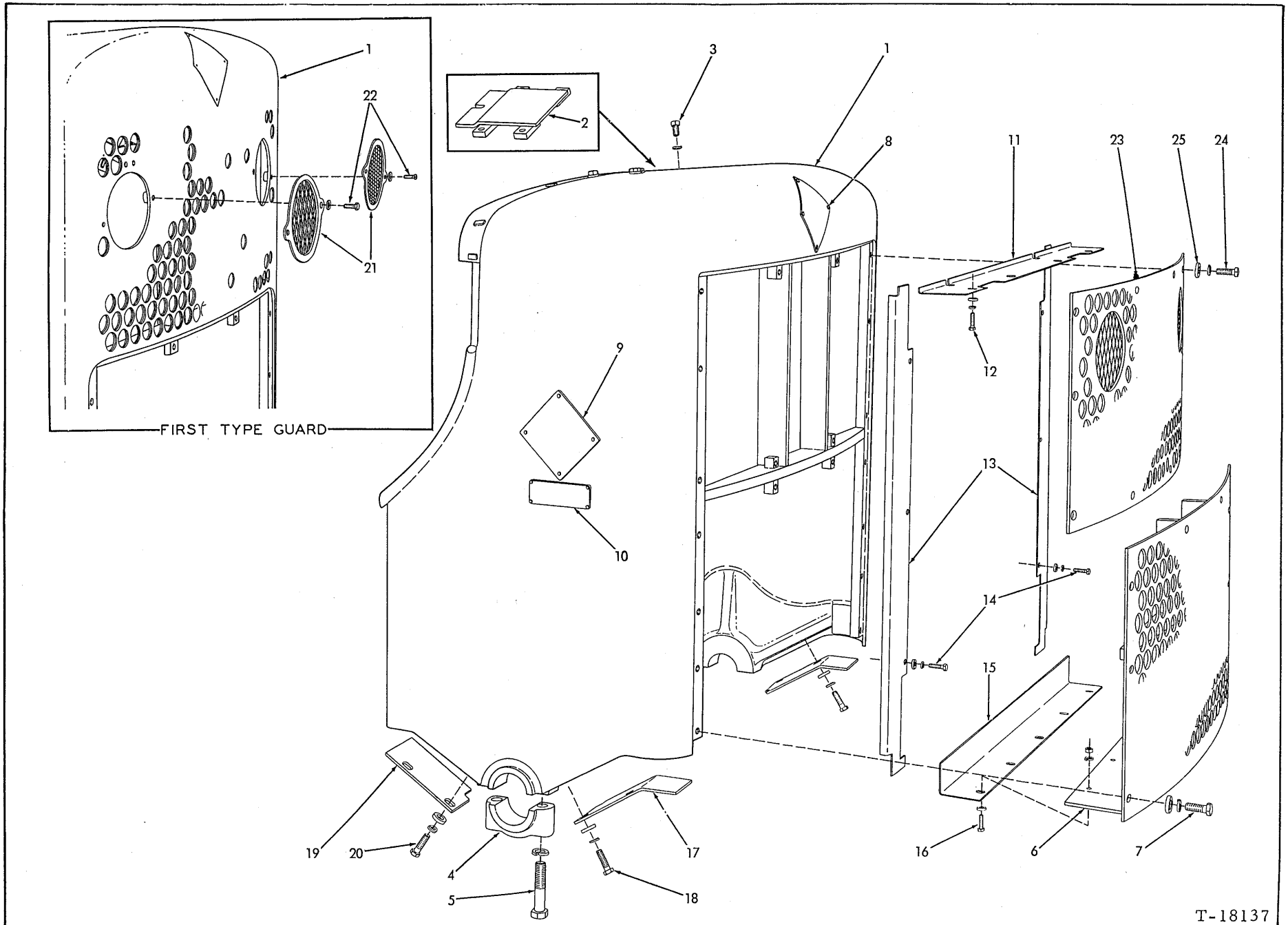
USAGE: Not original equipment. Furnished as service replacement only.

* Model HD21A tractors prior to serial No. 9001
** Model HD21F; also Model HD21A tractors serial No. 9001 and up
*** Model HD21G

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION | |
|---|---|---|---|---|---|---|
| 1 | 647652 | 2 | - | - | RAIL ASSEMBLY (37 links) | Consist of items 2 thru 9 |
| | 645921 | - | 2 | - | RAIL ASSEMBLY (40 links) | |
| | 647468 | - | - | 2 | RAIL ASSEMBLY (42 links) | |
| 2 | 631389 | 74 | 80 | 84 | BAR, left | |
| 3 | 631390 | 74 | 80 | 84 | BAR, right | |
| 4 | 079601 | 72 | 78 | 82 | PIN | |
| 5 | 621294 | 2 | 2 | 2 | PIN, master | |
| 6 | 645783 | 72 | 78 | 82 | BUSHING, (8-5/16" long) | |
| 7 | 645768 | 2 | 2 | 2 | BUSHING, master (7-3/4" long) | |
| 8 | 645784 | 148 | 160 | 168 | SEAL | |
| 9 | 648647 | 4 | 4 | 4 | RING, spacing, master pin seal | |
| 10 | 097056 | 296 | 320 | 336 | BOLT, track shoe (2-5/8" long) | |
| | 097053 | 296 | 320 | 336 | BOLT, track shoe (2-15/16" long)(For use with semi-grouser shoes only) | |
| 11 | 083544 | 296 | 320 | 336 | NUT, track shoe bolt | |

| | | | | | TRACK SHOES | COMPLETE TRACK ASSEMBLIES WITH SHOES (2 Required) * (37 links) | ** (40 links) | *** (42 links) |
|---|---|---|---|---|---|---|---|---|
| 12 | 623469 | 74 | 80 | - | SHOE, grouser, 22" | 647692 | 647463 | |
| | 623009 | 74 | 80 | - | SHOE, grouser, 24" | 647688 | 645889 | |
| | 623386 | 74 | 80 | - | SHOE, grouser, 26" | 647686 | 647466 | |
| | 623392 | 74 | 80 | - | SHOE, grouser, 28" | 647690 | 647475 | |
| | 623379 | - | - | 42 | SHOE, grouser, left side, 22" | 647479 | 647471 | 647595 |
| | 623380 | - | - | 42 | SHOE, grouser, right side, 22" | 647480 | 647472 | 647596 |
| 13 | 623289 | 74 | 80 | - | SHOE, grouser, cut-out, 24" | | | |
| 14 | 623444 | 38 | 40 | - | SHOE, grouser, snow and ice, single calk, cut-out, 24" | | | |
| 15 | 623418 | 36 | 40 | - | SHOE, grouser, snow and ice, double calk, cut-out, 24" | | | |
| 16 | 082165 | 37 | 40 | 42 | SHOE, semi-grouser, left side, 22" | | | 647221 |
| | 082166 | 37 | 40 | 42 | SHOE, semi-grouser, right side, 22" | | | 647222 |
| | 090874 | 74 | 80 | - | SHOE, semi-grouser, 24" | | 647460 | |

NOTE: Complete TRACK ASSEMBLIES with SHOES are furnished only in sizes and types as listed. Assemblies other than those listed may be made up in the field by ordering the various components.




RADIATOR GUARD (Standard)

# RADIATOR GUARD

USAGE: Standard equipment

* Used on tractors prior to serial No. 9001.
** Effective with tractor serial No. 9001.

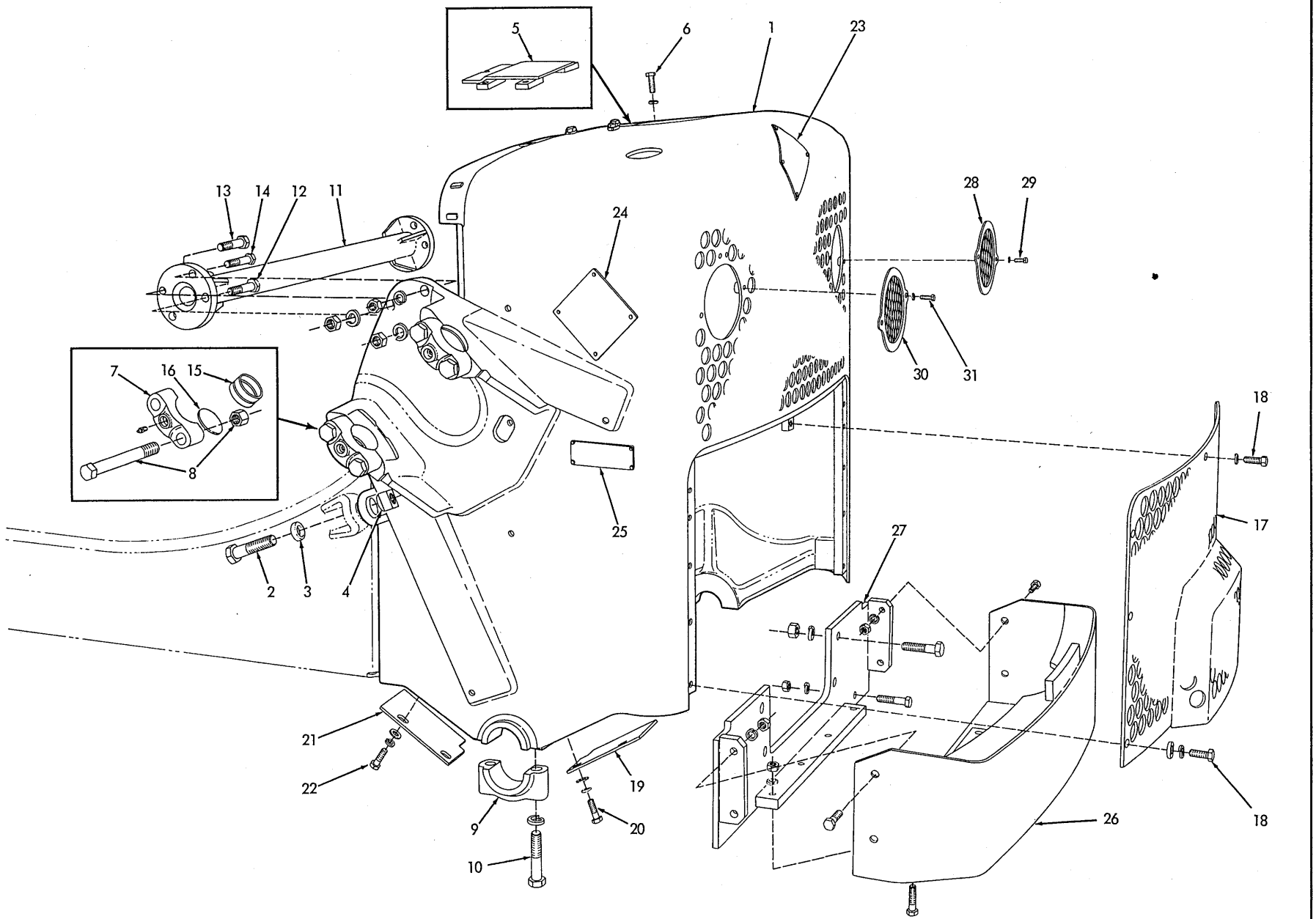
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 1 | ------ | 1 | - | GUARD ASSEMBLY, radiator (Order 1 each GUARD ASSEMBLY 093193, CONNECTOR 048142, PLATE 093165, CABLE 093194, CABLE 093196 and BAFFLE 093219; 2 each GROMMET 044810, GROMMET 083683, CABLE 093176, BRACKET 093195 and CLIP 235794; 4 each CAPSCREW 035336, LOCKWASHER 904206 and WASHER 911115; 18 each CAPSCREW 023465, WASHER 064810 and LOCKWASHER 904209) | |
| | 093193 | - | 1 | GUARD ASSEMBLY, radiator (Includes items 2, 3, 4 and 5) | |
| 2 | 084189 | 1 | 1 | PLATE, top closure | |
| 3 | 070590 | 4 | 4 | CAPSCREW, 5/8"NF x 1-1/8" | |
| | 904209 | 4 | 4 | LOCKWASHER, 5/8" | |
| 4 | 085186 | 2 | 2 | CAP, guard pivot | |
| 5 | 038203 | 4 | 4 | CAPSCREW, 1"NF x 4-1/2" | |
| | 910906 | 4 | 4 | LOCKWASHER, 1" | |
| 6 | 084309 | 1 | - | PLATE, front closure, lower (7-bolt type) (Used prior to tractor #7775) | See FRONT PUSHER for special plates |
| | 088384 | 1 | - | PLATE, front closure, lower (8-bolt type) (Effective with tractor #7775) | |
| | 093189 | - | 1 | PLATE, front closure, lower | |
| 7 | 036707 | - | 8 | CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #11412) | 1 less used prior to tractor #7775 |
| | 023465 | 8 | 8 | CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #11412) | |
| | 904209 | 8 | 8 | LOCKWASHER, 5/8" | |
| | 064810 | 8 | 8 | WASHER, plain | |
| 8 | ------ | 1 | 1 | MONOGRAM, "A-C", front (Discontinued) | |
| | 918370 | 4 | 4 | RIVET, drive, 3/16" x 9/32" (Not original equipment) | |
| 9 | ------ | 2 | 2 | MONOGRAM, "A-C", side (Discontinued) | |
| | 918370 | 8 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) | |
| 10 | ------ | 2 | 2 | MONOGRAM, "HD21" (Discontinued) | |
| | 918370 | 8 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) | |
| 11 | 084325 | 1 | - | BAFFLE, air, upper | |
| | 093219 | - | 1 | BAFFLE, air, upper | |
| 12 | 012992 | 4 | 4 | CAPSCREW, 3/8"NF x 1-1/4" | |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" | |
| | 044973 | 4 | 4 | WASHER, plain | |
| 13 | 084323 | 1 | 1 | BAFFLE, air, left side | |
| | 084324 | 1 | 1 | BAFFLE, air, right side | |
| 14 | 040382 | 6 | 6 | CAPSCREW, 3/8"NC x 1-3/8" | |
| | 904206 | 6 | 6 | LOCKWASHER, 3/8" | |
| | 044973 | 6 | 6 | WASHER, plain | |

(Continued)

## RADIATOR GUARD (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 15 | 084492 | 1 | 1 | BAFFLE, air, lower (See FRONT PUSHER for special baffle) | |
| 16 | 036034 | 5 | 5 | CAPSCREW, 3/8"NF x 1" | |
| | 044973 | 5 | 5 | WASHER, plain | |
| | 904206 | 5 | 5 | LOCKWASHER, 3/8" | |
| | 911041 | 5 | 5 | NUT, 3/8"NF | |
| 17 | 084140 | 2 | - | PLATE, bottom front closure | |
| | 093979 | - | 1 | PLATE, bottom front closure, left side | |
| | 093980 | - | 1 | PLATE, bottom front closure, right side | |
| 18 | 035229 | 4 | 4 | CAPSCREW, 5/8"NF x 2" | |
| | 904209 | 4 | 4 | LOCKWASHER, 5/8" | |
| | 064810 | 4 | 4 | WASHER, plain | |
| 19 | 085056 | 2 | - | PLATE, bottom rear closure (3-1/4" wide)(Used prior to tractor #7056) | |
| | 084140 | 2 | 2 | PLATE, bottom closure, rear (4-3/4" wide)(Effective with tractor #7056) | |
| 20 | 035229 | 4 | 4 | CAPSCREW, 5/8"NF x 2" | |
| | 904209 | 4 | 4 | LOCKWASHER, 5/8" | |
| | 064810 | 4 | 4 | WASHER, plain | |
| 21 | 088819 | 1 | - | PLATE, closure, left headlight opening | Effective with tractor #8360 |
| | 088820 | 1 | - | PLATE, closure, right headlight opening | |
| 22 | 036034 | 4 | - | CAPSCREW, 3/8"NF x 1" | |
| | 911115 | 4 | - | WASHER, plain, SAE std., 3/8" | |
| 23 | 093165 | - | 1 | PLATE, front closure, upper | |
| 24 | 023465 | - | 10 | CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #11412) | |
| | 036707 | - | 10 | CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #11412) | |
| | 904209 | - | 10 | LOCKWASHER, 5/8" | |
| 25 | 064810 | - | 10 | WASHER, plain | |

MEMO



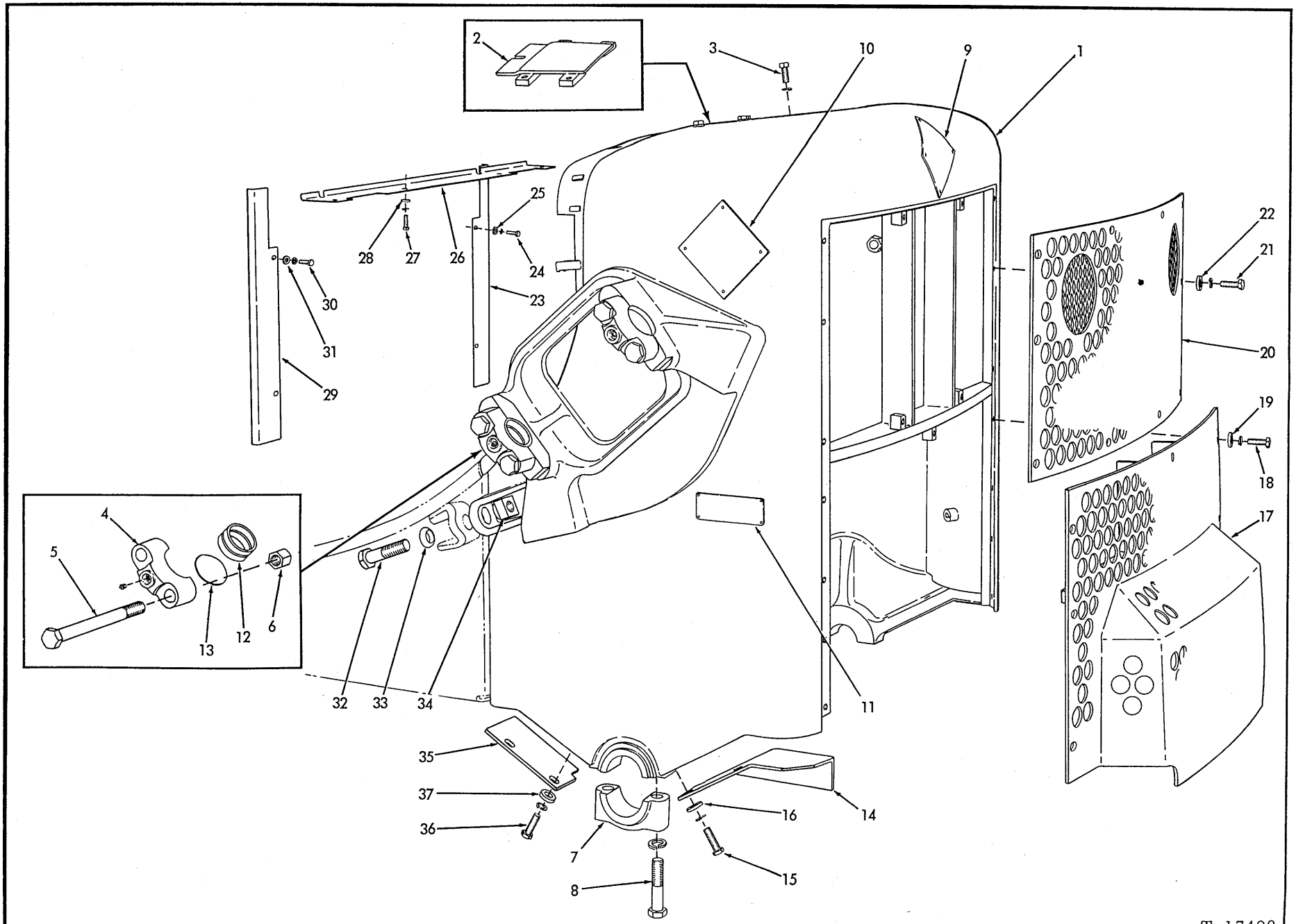

RADIATOR GUARD (First type Hydraulic)

## RADIATOR GUARD

USAGE: Model HD21A tractors prior to serial No. 9001 equipped with hydraulic dozer.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 090238 | 1 | GUARD ASSEMBLY, radiator (Includes items 5 thru 10, 28 thru 31 and set of swing-out head light brackets) |
| 2 | 089231 | 2 | CAPSCREW, 1-1/8"NF x 4-1/2" } Effective with tractor #8260 |
| 3 | 089229 | 2 | WASHER, spherical |
| 4 | 089230 | 2 | NUT, spherical |
| 5 | 084189 | 1 | PLATE, top closure |
| 6 | 070590 | 4 | CAPSCREW, 5/8"NF x 1-1/8" |
| 7 | 085140 | 4 | CAP, trunnion |
| | 914465 | 4 | FITTING, lubricating, straight, 1/8"NPT |
| 8 | 070861 | 8 | CAPSCREW, 1"NF x 10-1/2" |
| | 600236 | 8 | NUT, high, 1"NF |
| 9 | 085186 | 2 | CAP, guard pivot |
| 10 | 038203 | 4 | CAPSCREW, 1"NF x 4-1/2" |
| | 910916 | 4 | LOCKWASHER, 1" |
| 11 | 085557 | 1 | TUBE, bracing |
| 12 | 085569 | 2 | CAPSCREW, 7/8"NF x 4-3/4" |
| 13 | 085568 | 2 | CAPSCREW, 7/8"NF x 4" |
| | 905347 | 4 | LOCKWASHER, 7/8" |
| | 911046 | 4 | NUT, 7/8"NF |
| 14 | 035422 | 4 | CAPSCREW, 3/4"NF x 4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| | 911045 | 4 | NUT, 3/4"NF |
| 15 | 084581 | 4 | BUSHING, trunnion |
| 16 | 084612 | 4 | PLATE, retaining, trunnion bushing |
| 17 | 609140 | 1 | PLATE, front, radiator guard |
| 18 | 035014 | 7 | CAPSCREW, 5/8"NF x 1-1/2" |
| | 904209 | 7 | LOCKWASHER, 5/8" |
| | 064810 | 6 | WASHER, plain |
| 19 | 084140 | 2 | PLATE, bottom closure, front |
| 20 | 023465 | 4 | CAPSCREW, 5/8"NF x 1-3/4" |
| | 900819 | 4 | WASHER, plain, U.S. std., 5/8" |
| | 904209 | 4 | LOCKWASHER, 5/8" |
| 21 | 085056 | 2 | PLATE, bottom closure, rear (3-1/4" wide)(Used prior to tractor #7056) |
| | 084140 | 2 | PLATE, bottom closure, rear (4-3/4" wide)(Effective with tractor #7056) |
| 22 | 023465 | 4 | CAPSCREW, 5/8"NF x 1-3/4" |
| | 900819 | 4 | WASHER, plain, U.S. std., 5/8" |
| | 904209 | 4 | LOCKWASHER, 5/8" |
| 23 | ------ | 1 | MONOGRAM, "A-C", front (Discontinued) |
| | 918370 | 4 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 24 | ------ | 2 | MONOGRAM, "A-C", side (Discontinued) |
| | 918370 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 25 | ------ | 2 | MONOGRAM, "HD21" (Discontinued) |
| | 918370 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 26 | 609138 | 1 | GUARD, pump protecting |
| | 905819 | 6 | CAPSCREW, 5/8"NC x 2-1/4" |
| | 903645 | 2 | CAPSCREW, 5/8"NC x 2-1/2" |
| | 904209 | 8 | LOCKWASHER, 5/8" |
| | 911029 | 8 | NUT, 5/8"NC |

(Continued)




RADIATOR GUARD (Second type Hydraulic)

## RADIATOR GUARD (Continued)

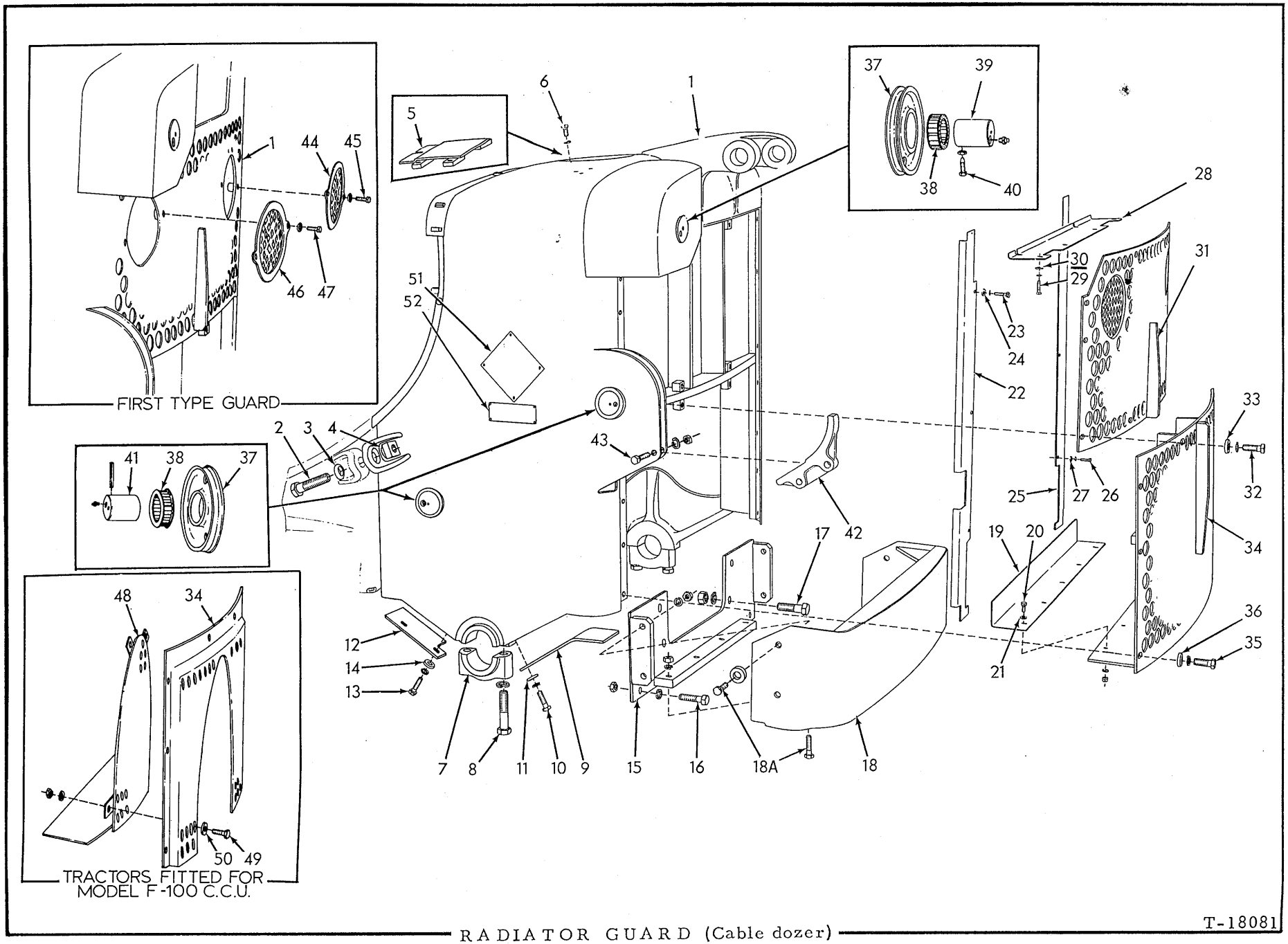
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 27 | 609139 | 1 | BRACKET, mounting, pump guard |
| | 914633 | 2 | CAPSCREW, 3/4"NF x 3-1/4" |
| | 904369 | 2 | LOCKWASHER, 3/4" |
| | 911045 | 2 | NUT, 3/4"NF |
| | 918293 | 4 | CAPSCREW, 1"NF x 3-1/2" |
| | 910916 | 4 | LOCKWASHER, 1" |
| | 911047 | 4 | NUT, 1"NF |
| 28 | 088819 | 1 | PLATE, guard, left head light (Effective with tractor #8360) |
| 29 | 036034 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 30 | 088820 | 1 | PLATE, guard, right head light (Effective with tractor #8360) |
| 31 | 036034 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | LOCKWASHER, 3/8" |

## RADIATOR GUARD

USAGE: Model HD21A tractors serial No. 9001 and up equipped with hydraulic dozer

| | | | |
|---|---|---|---|
| 1 | 092312 | 1 | GUARD ASSEMBLY, radiator (Includes items 2 thru 8) |
| 2 | 084189 | 1 | PLATE, top closure |
| 3 | 070590 | 4 | CAPSCREW, 5/8"NF x 1-1/8" |
| | 904209 | 4 | LOCKWASHER, 5/8" |
| 4 | 085140 | 4 | CAP, trunnion |
| | 914465 | 4 | FITTING, lubricating, straight, 1/8"NPT |
| 5 | 070861 | 8 | CAPSCREW, 1"NF x 10-1/2" |
| 6 | 600236 | 8 | NUT, high, 1"NF |
| 7 | 085186 | 2 | CAP, guard pivot |
| 8 | 038203 | 4 | CAPSCREW, 1"NF x 4-1/2" |
| | 910916 | 4 | LOCKWASHER, 1" |
| 9 | ------ | 1 | MONOGRAM, "A-C", front (Discontinued) |
| | 918370 | 4 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 10 | ------ | 2 | MONOGRAM, "A-C", side (Discontinued) |
| | 918370 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 11 | ------ | 2 | MONOGRAM, "HD21" (Discontinued) |
| | 918370 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 12 | 084581 | 4 | BUSHING, trunnion |
| 13 | 084612 | 4 | PLATE, retaining, trunnion bushing |
| 14 | 093721 | 1 | COVER, bottom closure, left front |
| | 093722 | 1 | COVER, bottom closure, right front |
| 15 | 023465 | 4 | CAPSCREW, 5/8"NF x 1-3/4" |
| | 904209 | 4 | LOCKWASHER, 5/8" |
| 16 | 064810 | 4 | WASHER, plain |
| 17 | 093167 | 1 | PLATE, front closure, lower |
| | 093189 | 1 | PLATE, front closure, lower (Permits use of front bumper when hydraulic pump is not installed) |
| 18 | 023465 | 7 | CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #11107) |
| | 036707 | 7 | CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #11107) |
| | 904209 | 7 | LOCKWASHER, 5/8" |
| 19 | 064810 | 7 | WASHER, plain |
| 20 | 093165 | 1 | PLATE, front closure, upper |
| 21 | 023465 | 10 | CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #11107) |
| | 036707 | 10 | CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #11107) |
| | 904209 | 10 | LOCKWASHER, 5/8" |
| 22 | 064810 | 10 | WASHER, plain |

(Continued)




RADIATOR GUARD (Cable dozer)

T-18081

## RADIATOR GUARD (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 23 | 093007 | 1 | BAFFLE, air, left side |
| 24 | 040382 | 2 | CAPSCREWS, 3/8"NC x 1-3/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 25 | 044973 | 2 | WASHER, plain |
| 26 | 093220 | 1 | BAFFLE, air, upper |
| 27 | 012992 | 4 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 28 | 044973 | 4 | WASHER, plain |
| 29 | 093008 | 1 | BAFFLE, air, right side |
| 30 | 040382 | 2 | CAPSCREW, 3/8"NC x 1-3/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 31 | 044973 | 2 | WASHER, plain |
| 32 | 089231 | 2 | CAPSCREW, guard supporting |
| 33 | 089229 | 2 | WASHER, spherical |
| 34 | 089230 | 2 | NUT, spherical, square, 1-1/8"NF |
| 35 | 084140 | 2 | PLATE, bottom closure, rear |
| 36 | 023465 | 4 | CAPSCREW, 5/8"NF x 1-3/4" |
| | 904209 | 4 | LOCKWASHER, 5/8" |
| 37 | 064810 | 4 | WASHER, plain |

## RADIATOR GUARD

USAGE: Tractors equipped with cable dozer

* Used with rear-mounted cable control unit
** Used with front-mounted cable control unit

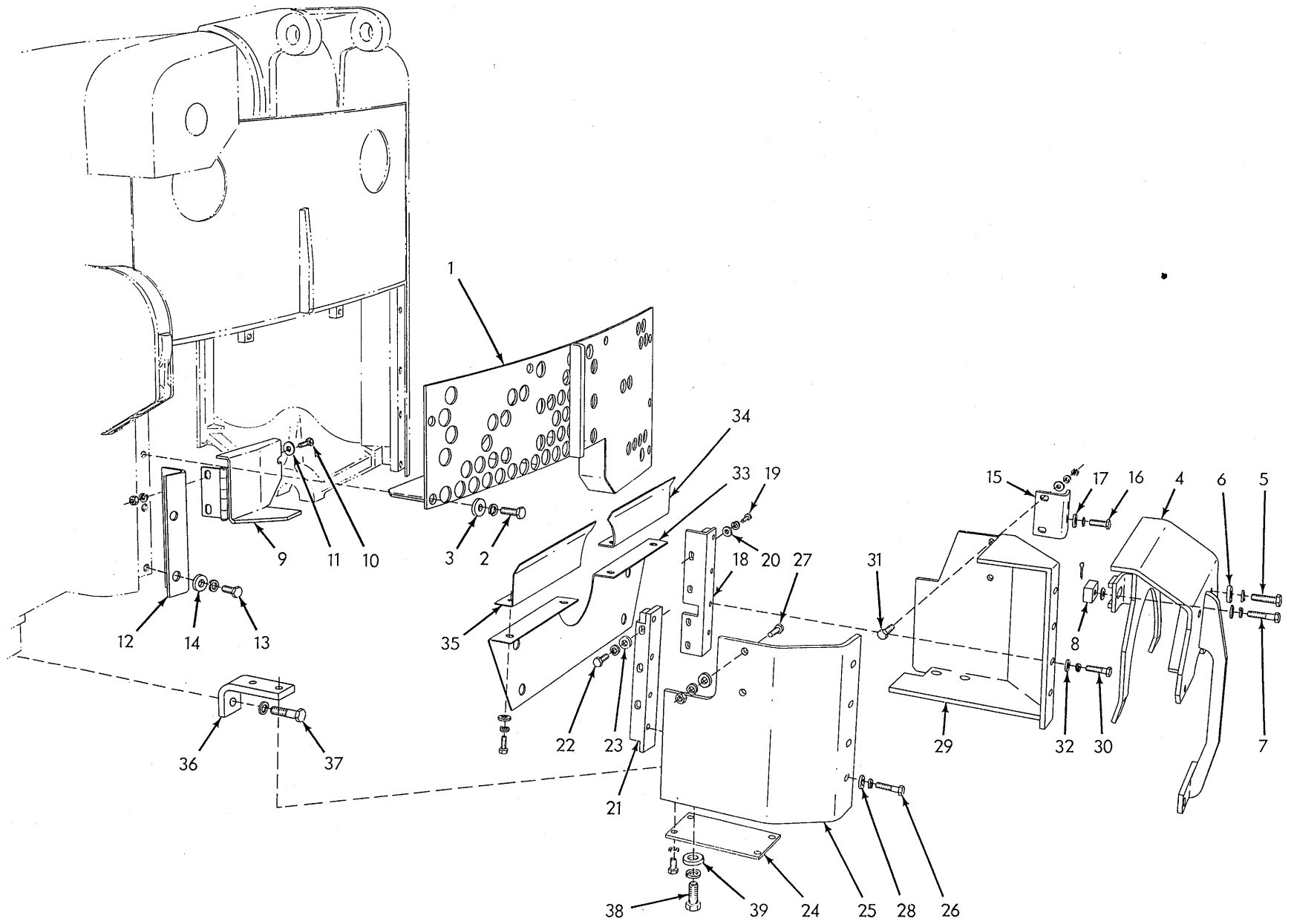
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | 1 | GUARD ASSEMBLY, radiator (Used prior to tractor #9142)(Order 1 each GUARD ASSEMBLY 620599, CONNECTOR 048142, CABLE 093194, CABLE 093196, BAFFLE 093220 and PLATE 093262; 2 each GROMMET 044810, GROMMET 083683, CABLE 093176, BRACKET 093195 and CLIP 235794; 4 each CAPSCREW 035336, WASHER 044973 and LOCKWASHER 904206; 18 each CAPSCREW 023465, WASHER 064810 and LOCKWASHER 904209) |
| | 620599 | 1 | 1 | GUARD ASSEMBLY, radiator (Includes items 5 thru 8)(Effective with tractor #9142) |
| 2 | 089231 | 2 | 2 | CAPSCREW, guard supporting (1-1/8"NF x 4-1/2")(Effective with tractor #8260) |
| 3 | 089229 | 2 | 2 | WASHER, spherical |
| 4 | 089230 | 2 | 2 | NUT, spherical, square, 1-1/8"NF |
| 5 | 084189 | 1 | 1 | PLATE, top closure |
| 6 | 070590 | 4 | 4 | CAPSCREW, 5/8"NF x 1-1/8" |
| | 904209 | 4 | 4 | LOCKWASHER, 5/8" |
| 7 | 085186 | 2 | 2 | CAP, guard pivot |
| 8 | 038203 | 4 | 4 | CAPSCREW, 1"NF x 4-1/2" |
| | 910916 | 4 | 4 | LOCKWASHER, 1" |
| 9 | 093979 | 1 | 1 | PLATE, bottom front closure, left side — Not used with F-100 C.C.U. |
| | 093980 | 1 | 1 | PLATE, bottom front closure, right side — Not used with F-100 C.C.U. |
| | 093721 | - | 1 | PLATE, bottom front closure, left side — For use with F-100 C.C.U. only |
| | 093722 | - | 1 | PLATE, bottom front closure, right side — For use with F-100 C.C.U. only |
| 10 | 035229 | 4 | 4 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 4 | 4 | LOCKWASHER, 5/8" |
| 11 | 064810 | 4 | 4 | WASHER, plain |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 12 | 085056 | 2 | 2 | PLATE, bottom closure, rear (3-1/4" wide)(Used prior to tractor #7056) |
| | 084140 | 2 | 2 | PLATE, bottom closure, rear (4-3/4" wide)(Effective with tractor #7056) |
| 13 | 035229 | 4 | 4 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 4 | 4 | LOCKWASHER, 5/8" |
| 14 | 064810 | 4 | 4 | WASHER, plain |
| 15 | 609406 | 1 | - | ADAPTER, lower guard |
| 16 | 012526 | 2 | - | CAPSCREW, 3/4"NF x 3-1/4" |
| | 904369 | 2 | - | LOCKWASHER, 3/4" |
| | 911045 | 2 | - | NUT, 3/4"NF |
| 17 | 012586 | 4 | - | CAPSCREW, 1"NF x 3-1/2" |
| | 910916 | 4 | - | LOCKWASHER, 1" |
| | 911047 | 4 | - | NUT, 1"NF |
| 18 | 609408 | 1 | - | GUARD, lower section |
| 18A | 037573 | 8 | - | CAPSCREW, 5/8"NC x 2-3/4" |
| | 064810 | 4 | - | WASHER, plain |
| | 904209 | 8 | - | LOCKWASHER, 5/8" |
| | 911029 | 8 | - | NUT, 5/8"NC |
| 19 | 084492 | 1 | - | BAFFLE, air, lower (See FRONT PUSHER for special baffle) |
| 20 | 036034 | 5 | - | CAPSCREW, 3/8"NF x 1" |
| 21 | 044973 | 5 | - | WASHER, plain |
| | 904206 | 5 | - | LOCKWASHER, 3/8" |
| | 911041 | 5 | - | NUT, 3/8"NF |
| 22 | 084759 | 1 | 1 | BAFFLE, air, right side |
| 23 | 040382 | 3 | 3 | CAPSCREW, 3/8"NC x 1-3/8" |
| | 904206 | 3 | 3 | LOCKWASHER, 3/8" |
| 24 | 044973 | 3 | 3 | WASHER, plain |
| 25 | 084323 | 1 | 1 | BAFFLE, air, left side |
| 26 | 040382 | 3 | 3 | CAPSCREW, 3/8"NC x 1-3/8" |
| | 904206 | 3 | 3 | LOCKWASHER, 3/8" |
| 27 | 044973 | 3 | 3 | WASHER, plain |
| 28 | 093220 | 1 | 1 | BAFFLE, air, upper |
| 29 | 012992 | 4 | 4 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 30 | 044973 | 4 | 4 | WASHER, plain |
| 31 | 093262 | 1 | 1 | PLATE, front closure, upper (Effective with tractor #9142) |
| 32 | 023465 | 10 | 10 | CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #11126) |
| | 036707 | 10 | 10 | CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #11126) |
| | 904209 | 10 | 10 | LOCKWASHER, 5/8" |
| 33 | 064810 | 10 | 10 | WASHER, plain |
| | 087585 | 1 | - | PLATE, front closure, lower (Used prior to tractor #9142) — See FRONT PUSHER for special plate |
| | 093263 | 1 | - | PLATE, front closure, lower (Effective with tractor #9142) — See FRONT PUSHER for special plate |
| 34 | 091891 | - | 1 | PLATE, front closure, lower (Used prior to tractor #9142) — For use with "Gar Wood" Cable Control Unit |
| | 093258 | - | 1 | PLATE, front closure, lower (Effective with tractor #9142) — For use with "Gar Wood" Cable Control Unit |
| | 620483 | - | 1 | PLATE, front closure, lower (For use with "Allis-Chalmers" F-100 Cable Control Unit) |
| 35 | 023465 | 8 | 6 | CAPSCREW, 5/8"NF x 1-3/4" (Used prior to tractor #11126) |
| | 036707 | 8 | 6 | CAPSCREW, 5/8"NC x 1-3/4" (Effective with tractor #11126) |
| | 904209 | 8 | 6 | LOCKWASHER, 5/8" |
| 36 | 064810 | 8 | 6 | WASHER, plain |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 37 | 084758 | 3 | 1 | SHEAVE, control cable |
| 38 | 044875 | 3 | 1 | BEARING, roller, cable sheave |
| 39 | 084757 | 1 | 1 | SHAFT, front sheave |
| | 914465 | 1 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| 40 | 035188 | 1 | 1 | SETSCREW, shaft retaining |
| | 911035 | 1 | 1 | NUT, jam, 1/2"NC |
| 41 | 084384 | 2 | - | SHAFT, side sheaves |
| | 917936 | 2 | - | PIN, roll, 3/8" x 3-1/2" |
| | 914465 | 2 | - | FITTING, lubricating, straight, 1/8"NPT |
| | 093043 | - | 2 | CUP, hole closure |
| | 917936 | - | 2 | PIN, roll, 3/8" x 3-1/2" |
| 42 | 084694 | 1 | - | GUIDE, cable |
| | 085058 | - | 1 | GUIDE, false (Serves as sheave compartment dirt closure) |
| 43 | 035306 | 2 | 2 | CAPSCREW, 5/8"NF x 3-1/4" |
| | 904209 | 2 | 2 | LOCKWASHER, 5/8" |
| | 911044 | 2 | - | NUT, 5/8"NF |
| | 094455 | - | 1 | BLOCK, tapped |
| 44 | 088819 | 1 | 1 | PLATE, guard, left head light (Used on tractors #8360 thru #9141) |
| 45 | 036034 | 2 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 911115 | 2 | 2 | WASHER, plain, SAE std., 3/8" |
| 46 | 088820 | 1 | 1 | PLATE, guard, right head light (Used on tractors #8360 thru #9141) |
| 47 | 036034 | 2 | 2 | CAPSCREW, 3/8"NF x 1" |
| | 911115 | 2 | 2 | WASHER, plain, SAE std., 3/8" |
| 48 | 620751 | - | 1 | PLATE, closure (For use only when Model F-100 C.C.U. is removed) |
| 49 | 036707 | - | 4 | CAPSCREW, 5/8"NC x 1-3/4" |
| 50 | 086961 | - | 4 | WASHER, plain |
| | 904209 | - | 4 | LOCKWASHER, 5/8" |
| | 911029 | - | 4 | NUT, 5/8"NC |
| 51 | ------ | 2 | 2 | MONOGRAM "A-C" (Discontinued) |
| | 918370 | 8 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 52 | ------ | 2 | 2 | MONOGRAM, "HD21" (Discontinued) |
| | 918370 | 8 | 8 | RIVET, drive, 3/16" x 9/32" (Not originial equipment) |




T-24090

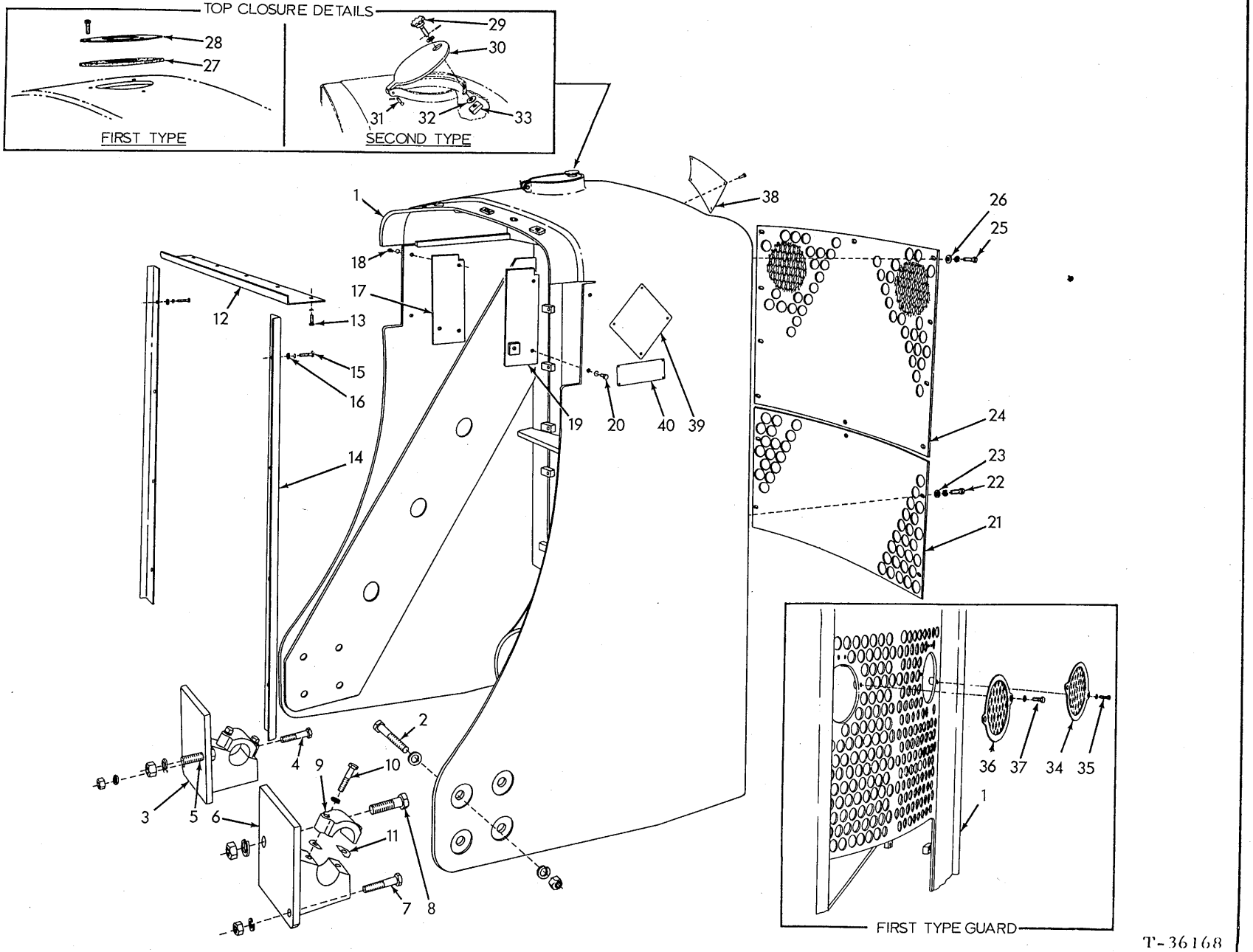
CLOSURE PARTS FOR GAR WOOD FRONT-MOUNTED C.C.U.

## CLOSURE PARTS FOR GAR WOOD FRONT-MOUNTED C.C.U.

USAGE: For "Gar Wood" Model 151 Cable Control Unit when using "Allis-Chalmers" controls.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 619080 | 1 | PLATE, front closure, lower |
| 2 | 036707 | 7 | CAPSCREW, 5/8"NC x 1-3/4" |
| | 904209 | 7 | LOCKWASHER, 5/8" |
| 3 | 064810 | 7 | WASHER, plain |
| 4 | 619026 | 1 | GUARD, center |
| 5 | 071113 | 6 | CAPSCREW, 5/8"NC x 2" |
| | 904209 | 6 | LOCKWASHER, 5/8" |
| 6 | 064810 | 6 | WASHER, plain |
| 7 | 093061 | 1 | CAPSCREW, latching, hinged cover |
| | 900806 | 1 | PIN, cotter, 1/8" x 1" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| 8 | 619082 | 1 | BLOCK, tapped, cover latching capscrew |
| 9 | 619058 | 1 | COVER, hinged |
| 10 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| 11 | 064531 | 2 | WASHER, plain |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 12 | 619084 | 1 | ANGLE, supporting, right guard (rear) |
| 13 | 036707 | 2 | CAPSCREW, 5/8"NC x 1-3/4" |
| | 904209 | 2 | LOCKWASHER, 5/8" |
| 14 | 064810 | 2 | WASHER, plain |
| 15 | 619081 | 1 | ANGLE, supporting, left guard (rear) |
| 16 | 036707 | 1 | CAPSCREW, 5/8"NC x 1-3/4" |
| | 904209 | 1 | LOCKWASHER, 5/8" |
| 17 | 064810 | 1 | WASHER, plain |
| 18 | 619066 | 1 | ANGLE, supporting, left guard (front) |
| 19 | 035733 | 4 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 20 | 064531 | 4 | WASHER, plain |
| 21 | 619064 | 1 | ANGLE, supporting, right guard (front) |
| 22 | 035733 | 4 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 23 | 064531 | 4 | WASHER, plain |
| 24 | 619105 | 1 | PLATE, access, control unit adjustment |
| | 911980 | 4 | CAPSCREW, 1/2"NC x 7/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 25 | 619060 | 1 | GUARD, right side |
| 26 | 035067 | 4 | CAPSCREW, 1/2"NF x 2" |
| 27 | 035073 | 2 | CAPSCREW, 1/2"NF x 1-3/4" |
| 28 | 064531 | 6 | WASHER, plain |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |

(Continued)




RADIATOR GUARD (Model HD21G)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 29 | 619055 | 1 | GUARD, left side |
| 30 | 035067 | 4 | CAPSCREW, 1/2"NF x 2" |
| 31 | 035073 | 2 | CAPSCREW, 1/2"NF x 1-3/4" |
| 32 | 064531 | 6 | WASHER, plain |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 33 | 619091 | 1 | BAFFLE, air, lower |
| 34 | 619089 | 1 | BAFFLE, air, upper left |
| | 910897 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 064531 | 2 | WASHER, plain |
| 35 | 619090 | 1 | BAFFLE, air, upper right |
| | 910897 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 064531 | 2 | WASHER, plain |
| 36 | 619063 | 2 | ANGLE, supporting, side guards |
| 37 | 070285 | 2 | CAPSCREW, 3/4"NF x 3" |
| | 904369 | 2 | LOCKWASHER, 3/4" |
| | 911045 | 2 | NUT, 3/4"NF |
| 38 | 072595 | 4 | CAPSCREW, 3/4"NF x 1-3/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 39 | 061689 | 4 | WASHER, plain |

## RADIATOR GUARD

USAGE: Model HD21G

*Tractors prior to serial No. 9001
** Tractors serial No. 9001 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | - | GUARD ASSEMBLY, radiator (Order 1 each GUARD ASSEMBLY 093308 and PLATE 093331; 2 each CABLE 093176, BRACKET 093195 and CLIP 235794; 4 each CAPSCREW 035336, WASHER 044973 and LOCKWASHER 904206; 15 each WASHER 064531 and LOCKWASHER 904208) |
| | 093308 | - | 1 | GUARD ASSEMBLY, radiator (Includes items 22, 25 and 29 thru 33) |
| 2 | 606113 | 8 | 8 | CAPSCREW, 3/4"NF x 6-3/4" |
| | 910255 | 8 | 8 | WASHER, plain, SAE std., 3/4" |
| | 904369 | 8 | 8 | LOCKWASHER, 3/4" |
| | 911045 | 8 | 8 | NUT, 3/4"NF |
| 3 | 087229 | 1 | 1 | TRUNNION ASSEMBLY, left (Includes items 9 thru 11) |
| 4 | 052527 | 1 | 1 | CAPSCREW, 3/4"NF x 3-1/2" |
| | 904369 | 1 | 1 | LOCKWASHER, 3/4" |
| | 911045 | 1 | 1 | NUT, 3/4"NF |
| 5 | 012586 | 1 | 1 | CAPSCREW, 1"NF x 3-1/2" |
| | 910916 | 1 | 1 | LOCKWASHER, 1" |
| | 911047 | 1 | 1 | NUT, 1"NF |

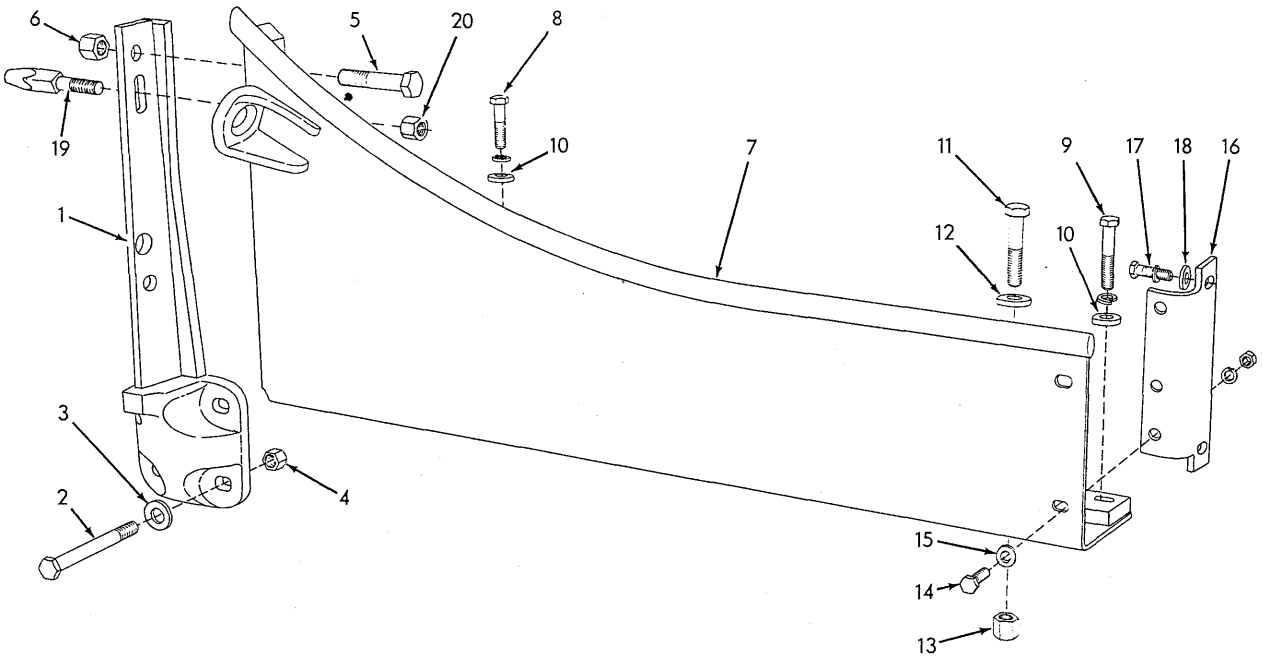
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| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 6 | 087230 | 1 | 1 | TRUNNION ASSEMBLY, right (Includes items 9 thru 11) |
| 7 | 052527 | 1 | 1 | CAPSCREW, 3/4"NF x 3-1/2" |
| | 904369 | 1 | 1 | LOCKWASHER, 3/4" |
| | 911045 | 1 | 1 | NUT, 3/4"NF |
| 8 | 012586 | 1 | 1 | CAPSCREW, 1"NF x 3-1/2" |
| | 910916 | 1 | 1 | LOCKWASHER, 1" |
| | 911047 | 1 | 1 | NUT, 1"NF |
| 9 | ------ | 2 | 2 | CAP, trunnion (Not serviced separately) |
| 10 | 023618 | 4 | 4 | CAPSCREW, 5/8"NF x 2-1/2" |
| | 904209 | 4 | 4 | LOCKWASHER, 5/8" |
| 11 | 087104 | 12 | 12 | SHIM, trunnion cap (Use as required) |
| 12 | 090759 | 1 | 1 | BAFFLE, air, top |
| 13 | 057927 | 5 | 5 | CAPSCREW, 5/16"NF x 3/4" |
| | 904205 | 5 | 5 | LOCKWASHER, 5/16" |
| 14 | 087165 | 2 | 2 | BAFFLE, air, side |
| 15 | 057927 | 8 | 8 | CAPSCREW, 5/16"NF x 3/4" |
| | 904205 | 8 | 8 | LOCKWASHER, 5/16" |
| 16 | 092665 | 8 | 8 | WASHER, plain |
| 17 | 087089 | 1 | 1 | PLATE, hood strap attachment, left |
| 18 | 035979 | 2 | 2 | CAPSCREW, 3/8"NF x 5/8" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| 19 | 087090 | 1 | 1 | PLATE, hood strap attachment, right |
| 20 | 035979 | 2 | 2 | CAPSCREW, 3/8"NF x 5/8" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| 21 | 086436 | 1 | - | PLATE, front closure, lower |
| | 093319 | - | 1 | PLATE, front closure, lower |
| 22 | 035018 | 5 | 5 | CAPSCREW, 1/2"NF x 1-1/2" (Used prior to tractor #11365) |
| | 035190 | - | 5 | CAPSCREW, 1/2"NC x 1-1/2" (Effective with tractor #11365) |
| | 904208 | 5 | 5 | LOCKWASHER, 1/2" |
| 23 | 064531 | 5 | 5 | WASHER, plain |
| 24 | 093331 | - | 1 | PLATE, front closure, upper |
| 25 | 035018 | - | 10 | CAPSCREW, 1/2"NF x 1-1/2" (Used prior to tractor #11365) |
| | 035190 | - | 10 | CAPSCREW, 1/2"NC x 1-1/2" (Effective with tractor #11365) |
| | 904208 | - | 10 | LOCKWASHER, 1/2" |
| 26 | 064531 | - | 10 | WASHER, plain |
| | | | | NOTE: Items 27 and 28 comprise the First Type closure used prior to tractor serial No. 11725, including No. 11798. |
| 27 | 089481 | 1 | 1 | SEAL, radiator neck |
| 28 | 089482 | 1 | 1 | PLATE, seal retaining |
| | 905657 | 3 | 3 | CAPSCREW, 1/4"NC x 1" |
| | 904204 | 3 | 3 | LOCKWASHER, 1/4" |
| | 911024 | 3 | 3 | NUT, 1/4"NC |
| | | | | NOTE: Items 29 thru 33 comprise the Second Type closure effective with tractor serial No. 11725 excluding No. 11798. |

(Continued)

## RADIATOR GUARD (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 29 | 624487 | - | 1 | KNOB, top closure plate |
| | 910244 | - | 1 | WASHER, plain, SAE std., 1/2" |
| | 916202 | - | 1 | PIN, roll, 1/8" x 7/8" |
| 30 | 622403 | - | 1 | PLATE, top closure |
| 31 | 622406 | - | 1 | PIN, plate retaining |
| | 900970 | - | 1 | PIN, cotter, 1/16" x 1/2" |
| 32 | 058614 | - | 1 | WASHER, spacing |
| 33 | 624488 | - | 1 | BLOCK, tapped |
| 34 | 088819 | - | 1 | PLATE, guard, left head light |
| 35 | 012992 | 2 | - | CAPSCREW, 3/8"NF x 1-3/8" |
| | 911115 | 2 | - | WASHER, plain, SAE std., 3/8" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| 36 | 088820 | 1 | - | PLATE, guard, right head light |
| 37 | 012992 | 2 | - | CAPSCREW, 3/8"NF x 1-3/8" |
| | 911115 | 2 | - | WASHER, plain, SAE std., 3/8" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| 38 | ------ | 1 | 1 | MONOGRAM, "A-C", front (Discontinued) |
| | 918370 | 4 | 4 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 39 | ------ | 2 | 2 | MONOGRAM, "A-C", side (Discontinued) |
| | 918370 | 8 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |
| 40 | ------ | 2 | 2 | MONOGRAM, "HD21G" (Discontinued) |
| | 918370 | 8 | 8 | RIVET, drive, 3/16" x 9/32" (Not original equipment) |




FRONT FENDERS T-18095

USAGE: Model HD21A only.

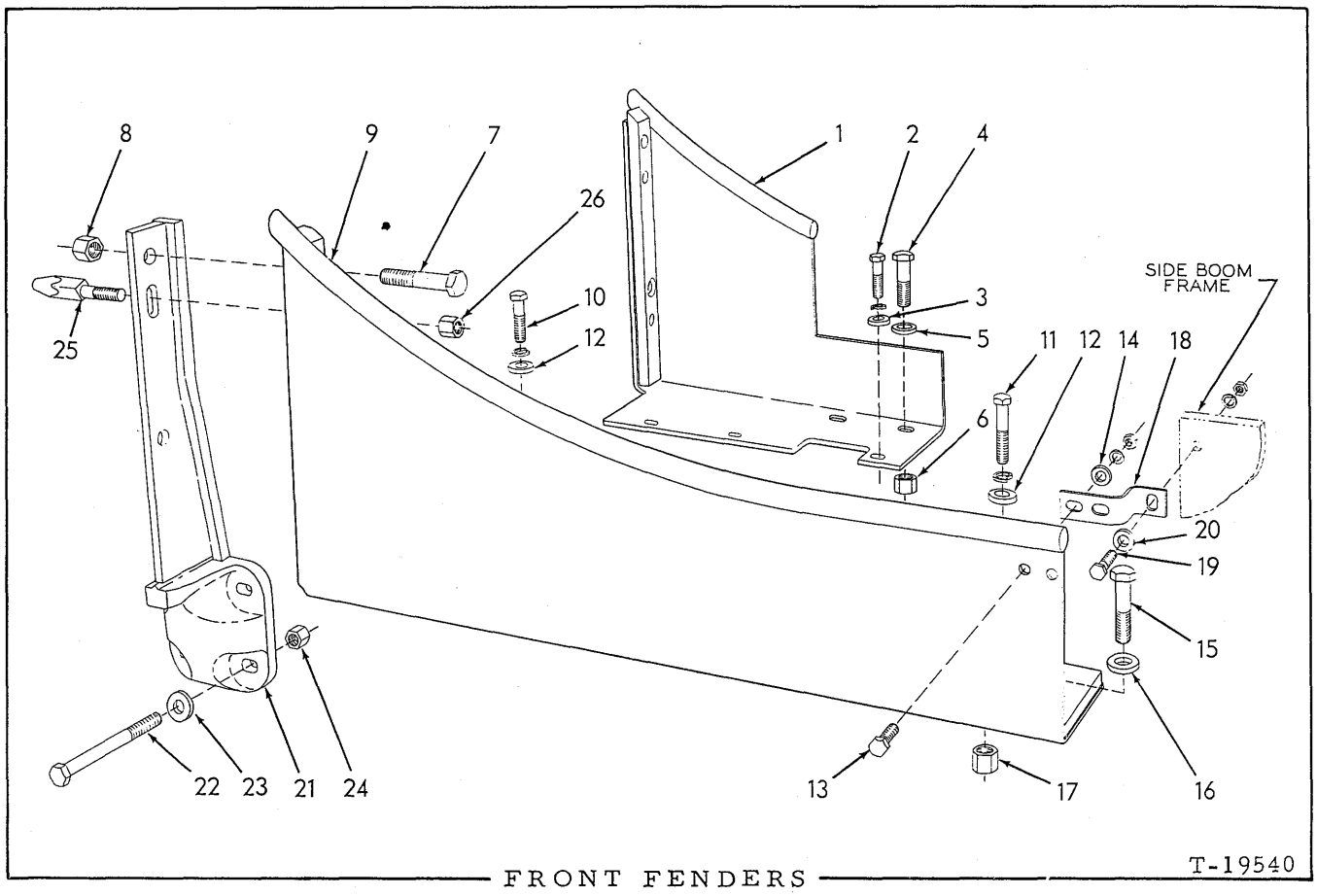
* Used prior to tractor serial No. 7056.
** Effective with tractor serial No. 7056.

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| | | | | NOTE: See RADIATOR AND MOUNTING for Model HD21G Front Fenders. | |
| 1 | 084213 | - | 2 | BRACKET, fender attachment | |
| 2 | 090978 | - | 8 | CAPSCREW, 3/4"NF x 7-3/8" | |
| 3 | 061689 | - | 8 | WASHER, plain | |
| 4 | 012767 | - | 8 | NUT, high, 3/4"NF | |
| 5 | 085026 | 6 | 6 | CAPSCREW, fender attachment (7/8"NF x 4-1/2") | 2 less used effective with tractor #12420 |
| 6 | 070400 | 6 | 6 | NUT, high, 7/8"NF | |

(Continued)

## FRONT FENDERS (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 7 | 084949 | 1 | - | FENDER, left side |
| | 089241 | - | 1 | FENDER, left side |
| | 084950 | 1 | - | FENDER, right side (For all tractors except those equipped with cable dozer using rear-mounted power unit) |
| | 089242 | - | 1 | FENDER, right side (For all tractors except those equipped with cable dozer using rear-mounted power unit) |
| | 084585 | 1 | - | FENDER, right side (For tractors equipped with cable dozer using rear-mounted power unit) |
| | 089772 | - | 1 | FENDER, right side (For tractors equipped with cable dozer using rear-mounted power unit) |
| 8 | 035014 | 8 | - | CAPSCREW, 5/8"NF x 1-1/2" |
| | 023618 | - | 8 | CAPSCREW, 5/8"NF x 2-1/2" |
| 9 | 035306 | 4 | 4 | CAPSCREW, 5/8"NF x 3-1/4" |
| | 904209 | 12 | 12 | LOCKWASHER, 5/8" |
| 10 | 064810 | 12 | 12 | WASHER, plain |
| 11 | 052527 | 4 | 4 | CAPSCREW, 3/4"NF x 3-1/2" |
| 12 | 061689 | 4 | 4 | WASHER, plain |
| 13 | 012767 | 4 | 4 | NUT, high, 3/4"NF |
| 14 | 035073 | 4 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| 15 | 064531 | 4 | 4 | WASHER, plain |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | NUT, 1/2"NF |
| 16 | 085019 | 2 | - | ANGLE, fender attachment |
| | 084139 | - | 2 | ANGLE, fender attachment |
| 17 | 035073 | 4 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 18 | 064531 | 4 | 4 | WASHER, plain |
| 19 | ------ | - | 2 | PIN, guide, radiator guard } Effective with tractor #12420, but later discontinued. Not needed. |
| 20 | 012767 | - | 2 | NUT, high, 3/4"NF } |




FRONT FENDERS

USAGE: Model HD21F only

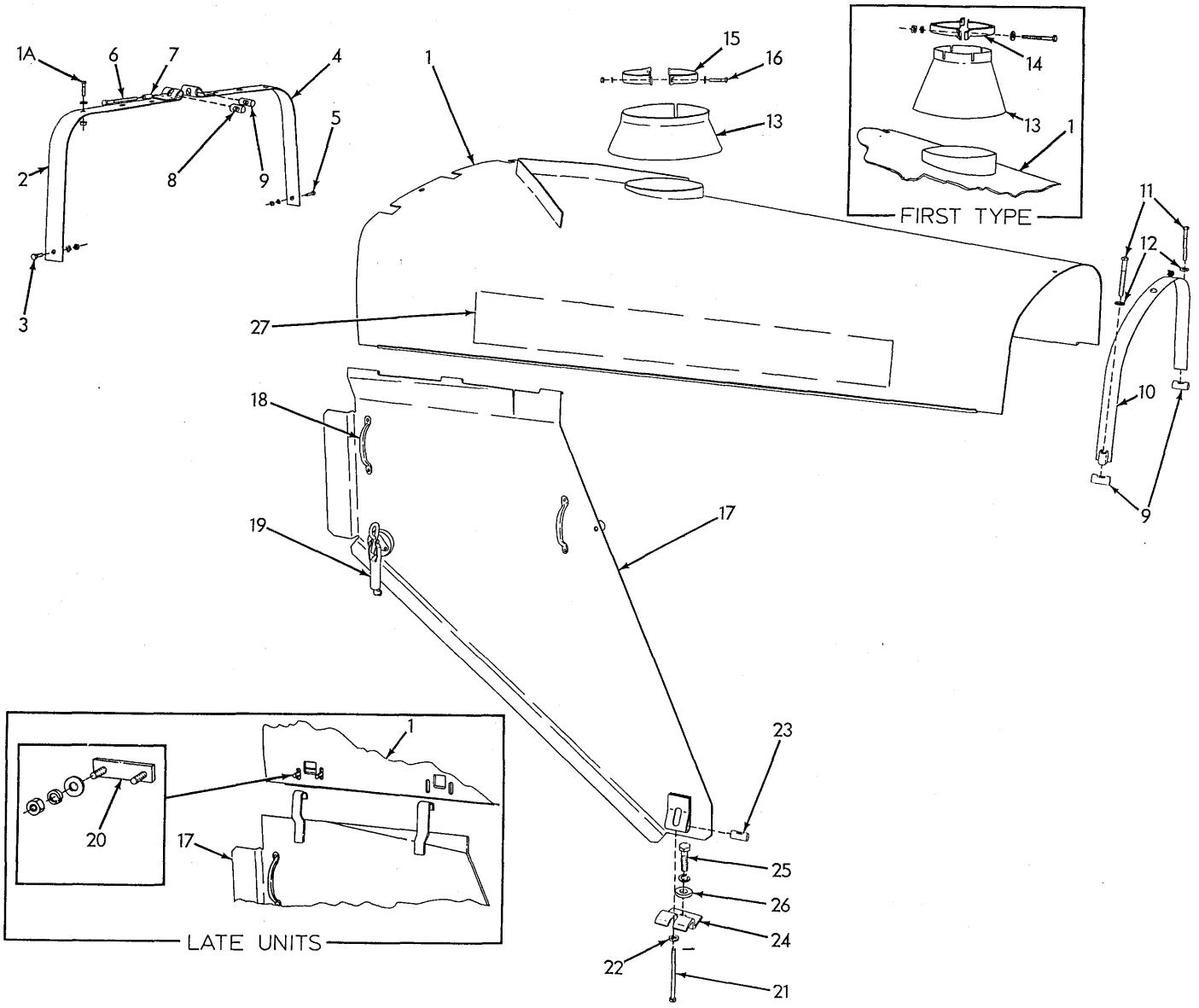
* Standard tractors
** Tractors equipped with dozer

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| | | | | NOTE: See RADIATOR AND MOUNTING for Model HD21G Front Fenders |
| 1 | 095084 | 1 | - | FENDER, right side |
| | 098501 | - | 1 | FENDER, right side |
| 2 | 023618 | 3 | 1 | CAPSCREW, 5/8"NF x 2-1/2" |
| | 035306 | - | 2 | CAPSCREW, 5/8"NF x 3-1/4" |
| 3 | 064810 | 3 | 3 | WASHER, plain |
| | 904209 | 3 | 3 | LOCKWASHER, 5/8" |
| 4 | 052527 | - | 2 | CAPSCREW, 3/4"NF x 3-1/2" |
| 5 | 061689 | - | 2 | WASHER, plain |
| 6 | 012767 | - | 2 | NUT, high, 3/4"NF |
| 7 | 085026 | 6 | 6 | CAPSCREW, fender attachment (7/8"NF x 4-1/2") — 2 less used effective with tractor #12420 |
| 8 | 070400 | 6 | 6 | NUT, high, 7/8"NF — 2 less used effective with tractor #12420 |

(Continued)

## FRONT FENDERS (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 9 | 095083 | 1 | - | FENDER, left side |
| | 098494 | - | 1 | FENDER, left side |
| 10 | 023618 | 4 | 4 | CAPSCREW, 5/8"NF x 2-1/2" |
| 11 | 035306 | 1 | 2 | CAPSCREW, 5/8"NF x 3-1/4" |
| 12 | 064810 | 5 | 5 | WASHER, plain |
| | 904209 | 5 | 5 | LOCKWASHER, 5/8" |
| 13 | 035018 | 2 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| 14 | 064531 | 2 | 2 | WASHER, plain |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | NUT, 1/2"NF |
| 15 | 052527 | - | 2 | CAPSCREW, 3/4"NF x 3-1/2" |
| 16 | 061689 | - | 2 | WASHER, plain |
| 17 | 012767 | - | 2 | NUT, high, 3/4"NF |
| 18 | 095082 | 1 | 1 | BRACKET, attaching, left fender |
| 19 | 035068 | 1 | 1 | CAPSCREW, 1/2"NF x 2-1/4" |
| 20 | 064531 | 1 | 1 | WASHER, plain |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 21 | 084213 | 2 | 2 | BRACKET, fender attachment |
| 22 | 090978 | 8 | 8 | CAPSCREW, 3/4"NF x 7-3/8" |
| 23 | 061689 | 8 | 8 | WASHER, plain |
| 24 | 012767 | 8 | 8 | NUT, high, 3/4"NF |
| 25 | ------ | 2 | 2 | PIN, guide, radiator guard } Effective with tractor #12420, but later discontinued. Not needed. |
| 26 | 012767 | 2 | 2 | NUT, high, 3/4"NF } |




T-33476

HOOD (Model HD21G)

# HOOD

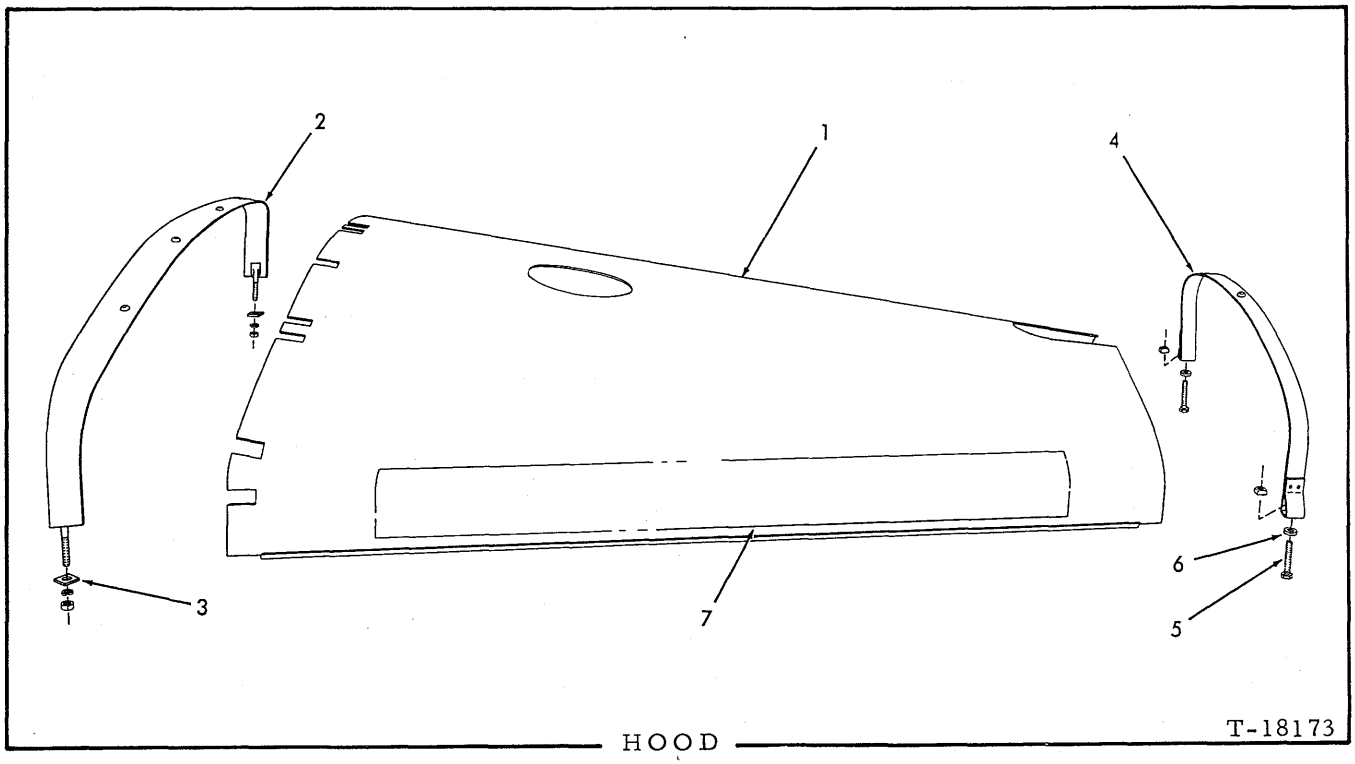
USAGE: Model HD21G

* Tractors prior to serial No. 11725, including No. 11798
** Tractors serial No. 11725 and up, excluding No. 11798

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 086243 | 1 | - | HOOD, engine (Used prior to tractor #9001) |
| | 092603 | 1 | - | HOOD, engine (Used on tractors #9001 thru #11000) |
| | 096059 | 1 | - | HOOD, engine (Effective with tractor #11001) |
| | 622191 | - | 1 | HOOD, engine (Used prior to tractor #12374 excluding #11817, 12172 and 12277) |
| | 631158 | - | 1 | HOOD, engine (Effective with tractor #12374 including #11817, 12172 and 12277) |
| 1A | 040382 | - | 6 | CAPSCREW, 3/8"NC x 1-3/8" |
| | 044973 | - | 6 | WASHER, plain |
| | 622653 | - | 6 | NUT, flanged |
| 2 | 089651 | 1 | - | STRAP, hold-down, left front |
| | 622651 | - | 1 | STRAP, hold-down, left front |
| 3 | 012992 | 1 | 1 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 4 | 089652 | 1 | - | STRAP, hold-down, right front |
| | 622652 | - | 1 | STRAP, hold-down, right front |
| 5 | 012992 | 1 | 1 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 6 | 087159 | 1 | 1 | CAPSCREW, front strap adjusting |
| 7 | 053667 | 1 | 1 | SPACER, front strap capscrew |
| 8 | 050735 | 1 | 1 | PIN, front strap (plain hole) |
| 9 | 050734 | 3 | 3 | PIN, strap adjusting (threaded hole) |
| 10 | 084507 | 1 | - | STRAP, hold-down, rear |
| | 622374 | - | 1 | STRAP, hold-down, rear |
| 11 | 088559 | 2 | 2 | CAPSCREW, 3/8"NC x 3" |
| 12 | 044973 | 2 | 2 | WASHER, plain |
| 13 | 087587 | 1 | - | SHIELD, dirt, exhaust pipe (Tractors prior to #9001) |
| | 092575 | 1 | 1 | SHIELD, dirt, exhaust pipe (Tractors #9001 and up) |

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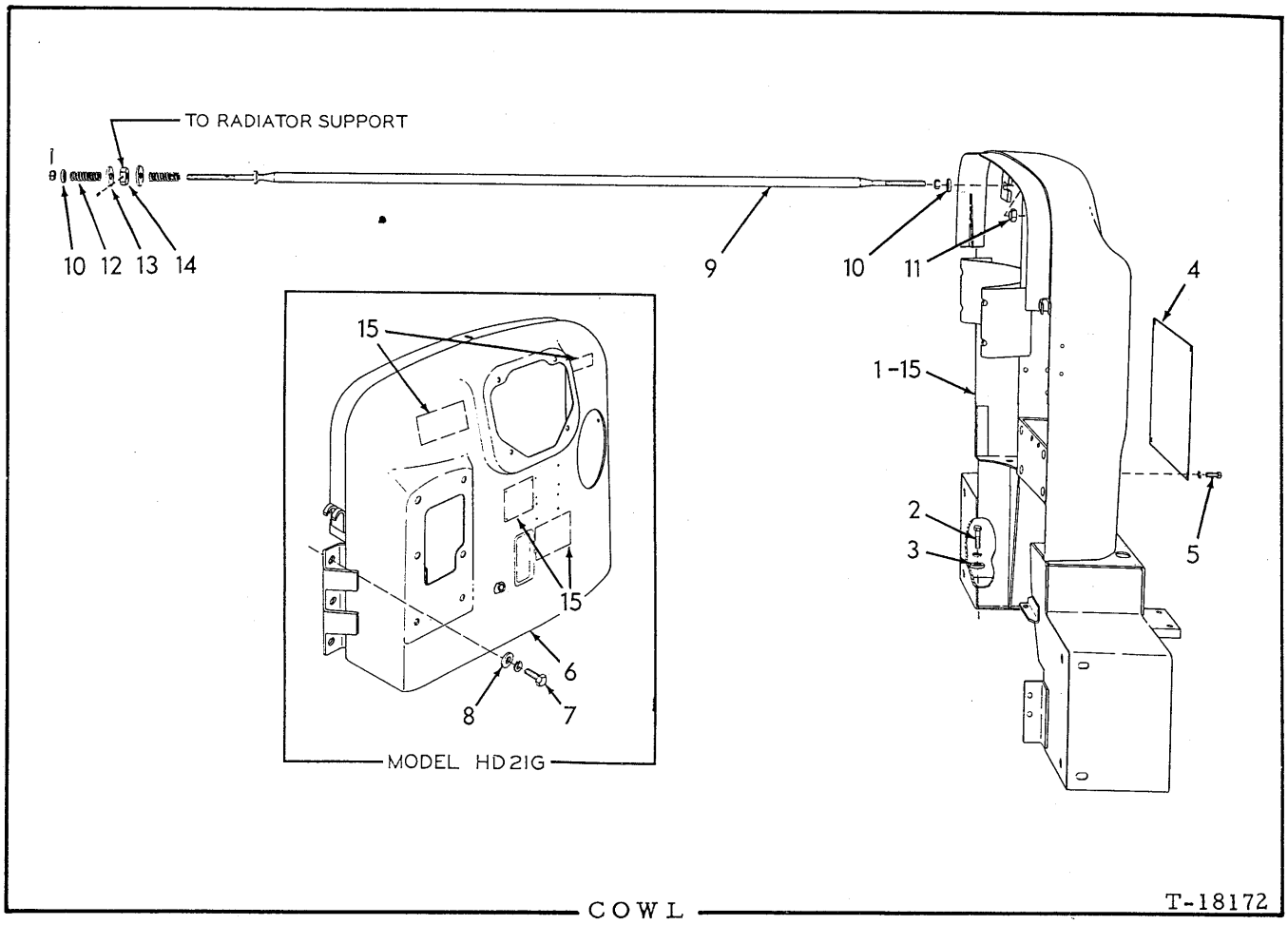
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| | 646078 | 1 | - | CLAMP, dirt shield (Tractors prior to #9001) |
| | 041915 | 1 | - | CAPSCREW, 3/8"NC x 3-1/2" |
| | 044973 | 2 | - | WASHER, plain |
| | 911026 | 1 | - | NUT, 3/8"NC |
| 14 | ------ | 1 | - | CLAMP, dirt shield (Tractors #9001 thru #11000)(Order 2 each CLAMP 095589, WASHER 044973, CAPSCREW 035336, LOCKWASHER 904206 and NUT 911041) |
| | 052016 | 1 | - | CAPSCREW, 3/8"NF x 4" |
| | 044973 | 2 | - | WASHER, plain |
| | 911041 | 1 | - | NUT, 3/8"NF |
| 15 | 095589 | 2 | 2 | CLAMP, dirt shield (Tractors #11001 and up) |
| 16 | 035336 | 2 | 2 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 044973 | 2 | 2 | WASHER, plain |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | NUT, 3/8"NF |
| 17 | 089539 | 1 | 1 | PLATE ASSEMBLY, left side (Includes items 18 and 19)(Used prior to tractor #12374, excluding #11817, 12172 and 12277) |
| | 631165 | - | 1 | PLATE ASSEMBLY, left side (Includes items 18 and 19)(Effective with tractor #12374, including #11817, 12172 and 12277) |
| | 089540 | 1 | 1 | PLATE ASSEMBLY, right side (Includes items 18 and 19)(Used prior to tractor #12374, excluding #11817, 12172 and 12277) |
| | 631166 | - | 1 | PLATE ASSEMBLY, right side (Includes items 18 and 19)(Effective with tractor #12374, including #11817, 12172 and 12277) |
| 18 | 032834 | 4 | 4 | HANDLE, plate lifting |
| | 900764 | 8 | 8 | RIVET, fl-hd., 3/16" x 1/2" |
| 19 | 033060 | 2 | 2 | FASTENER, hood latching |
| | 916023 | 6 | 6 | RIVET, fl-hd., 3/16" x 1-1/8" |
| 20 | 631426 | - | 4 | PLATE, side plate latching (Effective with tractor #12374, including #11817, 12172 and 12277) |
| | 911041 | - | 8 | NUT, 3/8"NF |
| | 904206 | - | 8 | LOCKWASHER, 3/8" |
| | 044973 | - | 8 | WASHER, plain |
| 21 | 089546 | 2 | 2 | CAPSCREW, side plate fastening |
| 22 | 044973 | 2 | 2 | WASHER, plain |
| | 900942 | 2 | 2 | PIN, cotter, 3/32" x 5/8" |
| 23 | 050734 | 2 | 2 | PIN, adjusting, side plate capscrew |
| 24 | 089548 | 2 | 2 | CLIP, side plate capscrew |
| 25 | 035229 | 2 | 2 | CAPSCREW, 5/8"NF x 2" |
| | 904209 | 2 | 2 | LOCKWASHER, 5/8" |
| 26 | 064810 | 2 | 2 | WASHER, plain |
| 27 | ------ | 2 | 2 | TRANSFER (See PAINTING AND MARKING) |




HOOD T-18173

USAGE: Models HD21A,F

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: See AIR PRE-CLEANER EXTENSION for listing of special hood |
| 1 | 084127 | 1 | HOOD, engine (Used prior to tractor #9001) |
| | 091923 | 1 | HOOD, engine (Used on tractors #9001 thru #11000) |
| | 095992 | 1 | HOOD, engine (Effective with tractor #11001) |
| 2 | 090877 | 1 | STRAP, hold-down, front (Standard equipment. Not for tractors equipped with hydraulic dozer) |
| | 094053 | 1 | STRAP, hold-down, front (For units equipped with hydraulic dozer) |
| 3 | 044973 | 2 | WASHER, plain (round)(For STRAP 090877) |
| | 052505 | 2 | BLOCK (square)(For STRAP 094053) |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911026 | 2 | NUT, 3/8"NC |
| 4 | 068506 | 1 | STRAP, hold-down, rear (Not used with special Dry-type Air Cleaner) |
| | 621662 | 1 | STRAP, hold-down, rear (Used only with special Dry-type Air Cleaner) |
| 5 | 056721 | 2 | CAPSCREW, 3/8"NC x 2-1/2" |
| 6 | 044973 | 2 | WASHER, plain |
| | 900405 | 2 | NUT, square, 3/8"NC |
| 7 | ------ | 2 | TRANSFER (See PAINTING AND MARKING) |




COWL

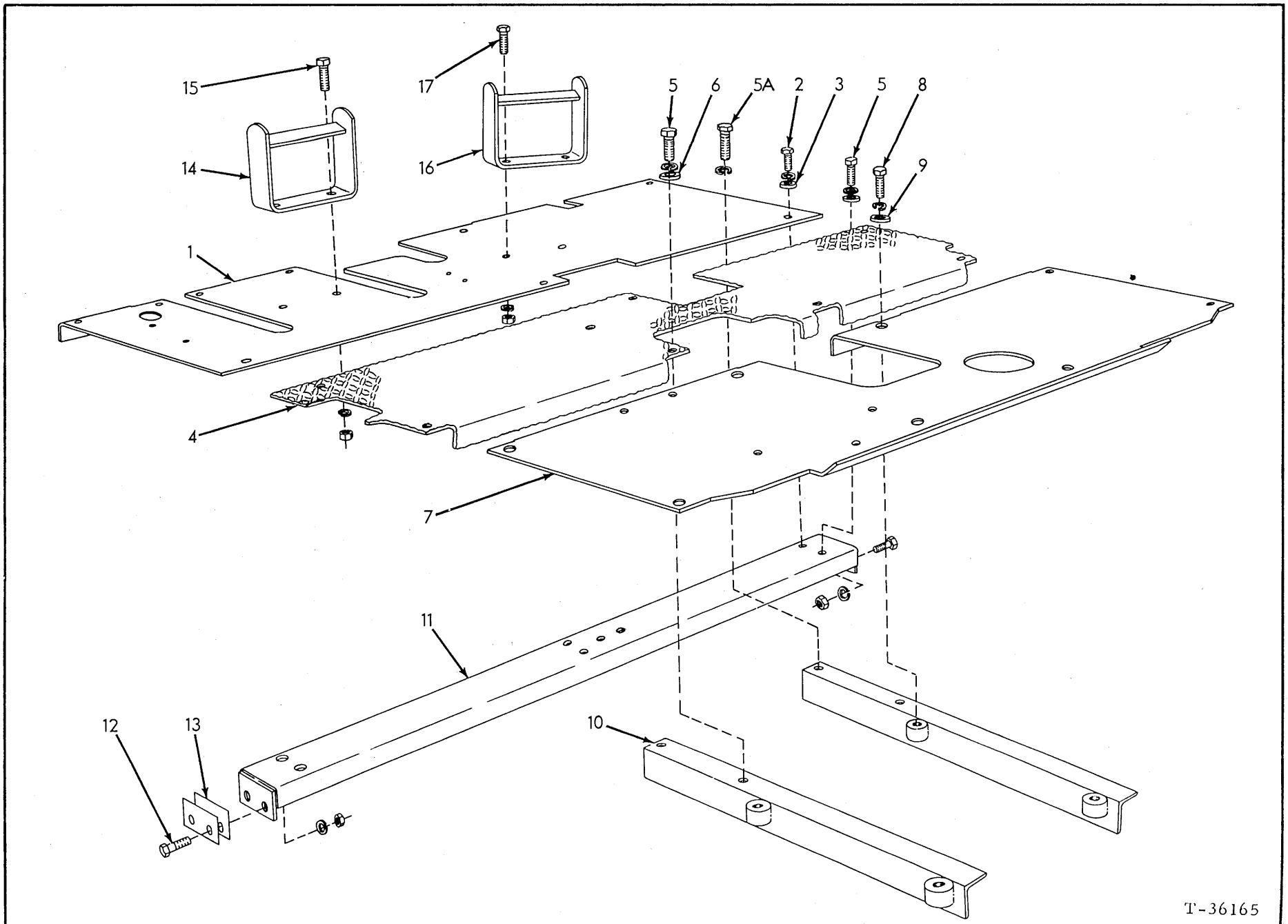
T-18172

* Model HD21A
** Model HD21F
*** Model HD21G

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 082342 | 1 | - | - | COWL (Used prior to tractor #9001) |
| | 093473 | 1 | - | - | COWL (Used on tractors #9001 thru #11000) |
| | 096400 | 1 | - | - | COWL (Effective with tractor #11001) |
| | 085533 | - | 1 | - | COWL (Used prior to tractor #9001) |
| | 093613 | - | 1 | - | COWL (Used on tractors #9001 thru #11000) |
| | 097240 | - | 1 | - | COWL (Effective with tractor #11001) |
| 2 | 035073 | 4 | - | - | CAPSCREW, 1/2"NF x 1-3/4" |
| | 035278 | - | 4 | - | CAPSCREW, 1/2"NF x 2-3/4" |
| | 904208 | 4 | 4 | - | LOCKWASHER, 1/2" |
| 3 | 064531 | 4 | 4 | - | WASHER, plain |
| 4 | 085575 | - | 1 | - | COVER, clutch access hole |
| 5 | 036034 | - | 4 | - | CAPSCREW, 3/8"NF x 1" |
| | 904206 | - | 4 | - | LOCKWASHER, 3/8" |

(Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 6 | 084348 | - | - | 1 | COWL (Used prior to tractor #11725, including #11798) |
| | 622190 | - | - | 1 | COWL (Effective with tractor #11725, excluding #11798) |
| 7 | 070469 | - | - | 6 | CAPSCREW, 1/2"NF x 1-1/4" — 2 less used prior to tractor #11725, including #11798 |
| | 904208 | - | - | 6 | LOCKWASHER, 1/2" — 2 less used prior to tractor #11725, including #11798 |
| 8 | 064531 | - | - | 6 | WASHER, plain — 2 less used prior to tractor #11725, including #11798 |
| 9 | 082886 | 1 | 1 | - | ROD, cowl bracing |
| 10 | 064531 | 2 | 2 | - | WASHER, plain |
| | 911043 | 1 | 1 | - | NUT, 1/2"NF (rear end) |
| | 910867 | 1 | 1 | - | NUT, slotted, 1/2"NF (front end) |
| | 900806 | 1 | 1 | - | PIN, cotter, 1/8" x 1" |
| 11 | 082884 | 1 | 1 | - | NUT, rod adjusting |
| 12 | 074960 | 2 | 2 | - | SPRING, compression, brace rod |
| 13 | 092163 | 2 | 2 | - | WASHER, spring bearing |
| 14 | 082885 | 1 | 1 | - | NUT, brace rod sleeve |
| | 915797 | 1 | 1 | - | PIN, roll, 3/16" x 1-1/4" |
| 15 | ------ | - | - | - | PLATE and TRANSFER (See PAINTING AND MARKING) |

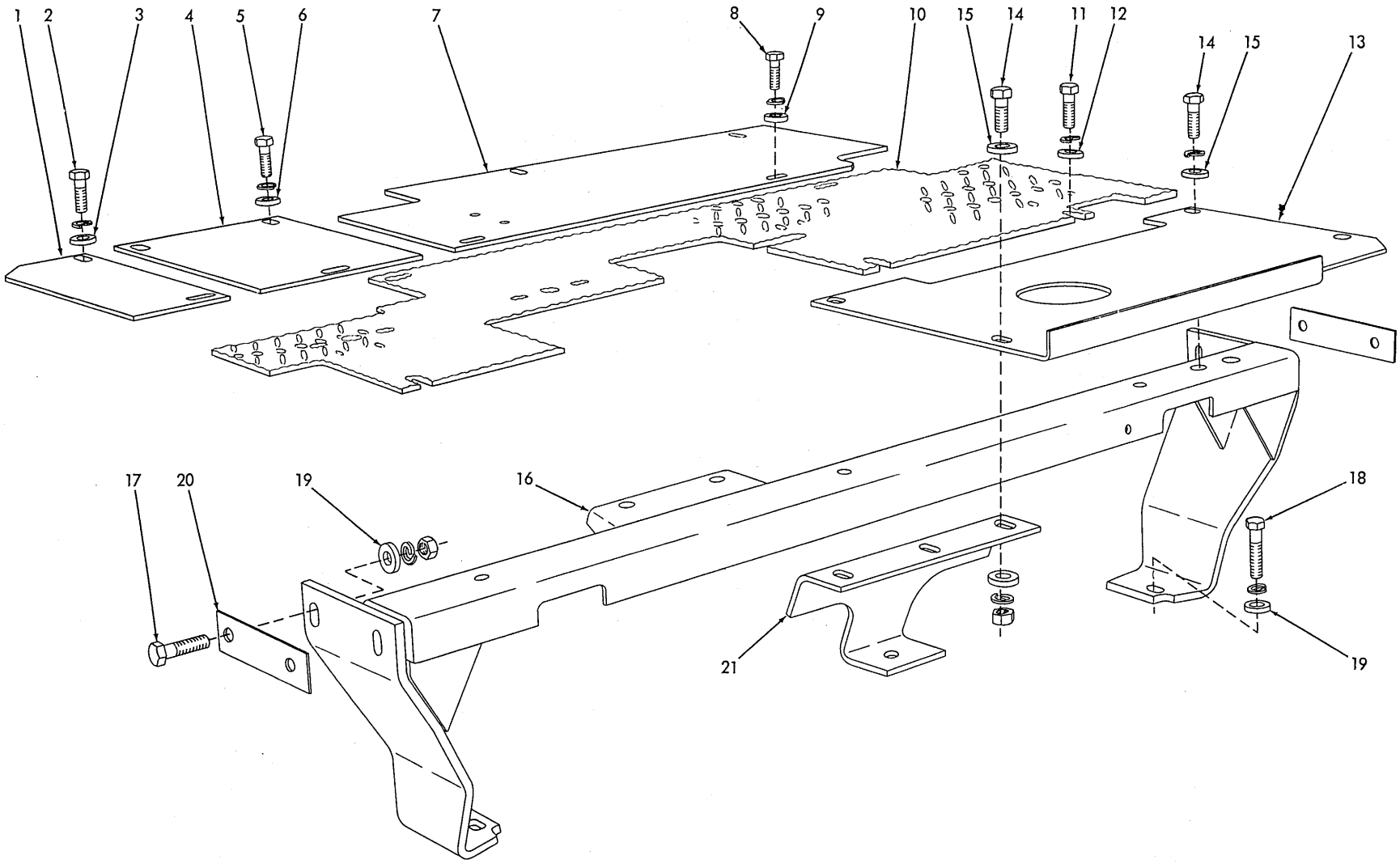



FLOOR (Model HD21A)

# FLOOR

USAGE: Model HD21A

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 099213 | 1 | PLATE, front (Used prior to tractor #12001 excluding #11808 and #11809) |
| | 623052 | 1 | PLATE, front (Effective with tractor #12001 including #11808 and #11809) |
| | 065765 | 1 | PLATE, front, left section — Special. For use with Heavy-duty Filter installation on early units |
| | 074670 | 1 | PLATE, front, right section — Special. For use with Heavy-duty Filter installation on early units |
| 2 | 035733 | 9 | CAPSCREW, 1/2"NC x 1-3/8" — 1 extra used with special plates. |
| | 904208 | 9 | LOCKWASHER, 1/2" — 1 extra used with special plates. |
| 3 | 064531 | 9 | WASHER, plain (1-1/8" O. D.) — 1 extra used with special plates. |
| 4 | 082433 | 1 | PLATE, center (Used prior to tractor #12001, excluding #11808 and #11809) |
| | 623055 | 1 | PLATE, center (Effective with tractor #12001, including #11808 and #11809) |
| 5 | 035190 | 8 | CAPSCREW, 1/2"NC x 1-1/2" |
| 5A | 035236 | 1 | CAPSCREW, 1/2"NC x 1-3/4" (Also attaches parking brake on late units) |
| | 904208 | 9 | LOCKWASHER, 1/2" |
| 6 | 092163 | 8 | WASHER, plain (1-3/4" O. D.)(1 additional used on early units) |
| 7 | 083428 | 1 | PLATE, rear (Used prior to tractor #8060) |
| | 089718 | 1 | PLATE, rear (Used on tractors #8060 thru #12000 excluding #11808 and #11809) |
| | 623054 | 1 | PLATE, rear (Effective with tractor #12001, including #11808 and #11809) |
| 8 | 035733 | 6 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 9 | 064531 | 6 | WASHER, plain (1-1/8" O. D.) |
| 10 | 079322 | 2 | ANGLE, supporting, center and rear floor plates (Used prior to tractor #8060) |
| | 089744 | 2 | ANGLE, supporting, center and rear floor plates (Effective with tractor #8060) |
| 11 | 087725 | 1 | CHANNEL, supporting, front and center floor plates |
| 12 | 035018 | 4 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 13 | 087742 | 4 | SHIM, channel spacing (1/32" thick. Use as required) |
| | 087741 | 1 | SHIM, channel spacing (1/8" thick. Use as required) |
| 14 | 054374 | 1 | REST, left foot (Used prior to tractor #11708) |
| 15 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 16 | 054374 | 1 | REST, right foot |
| 17 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |

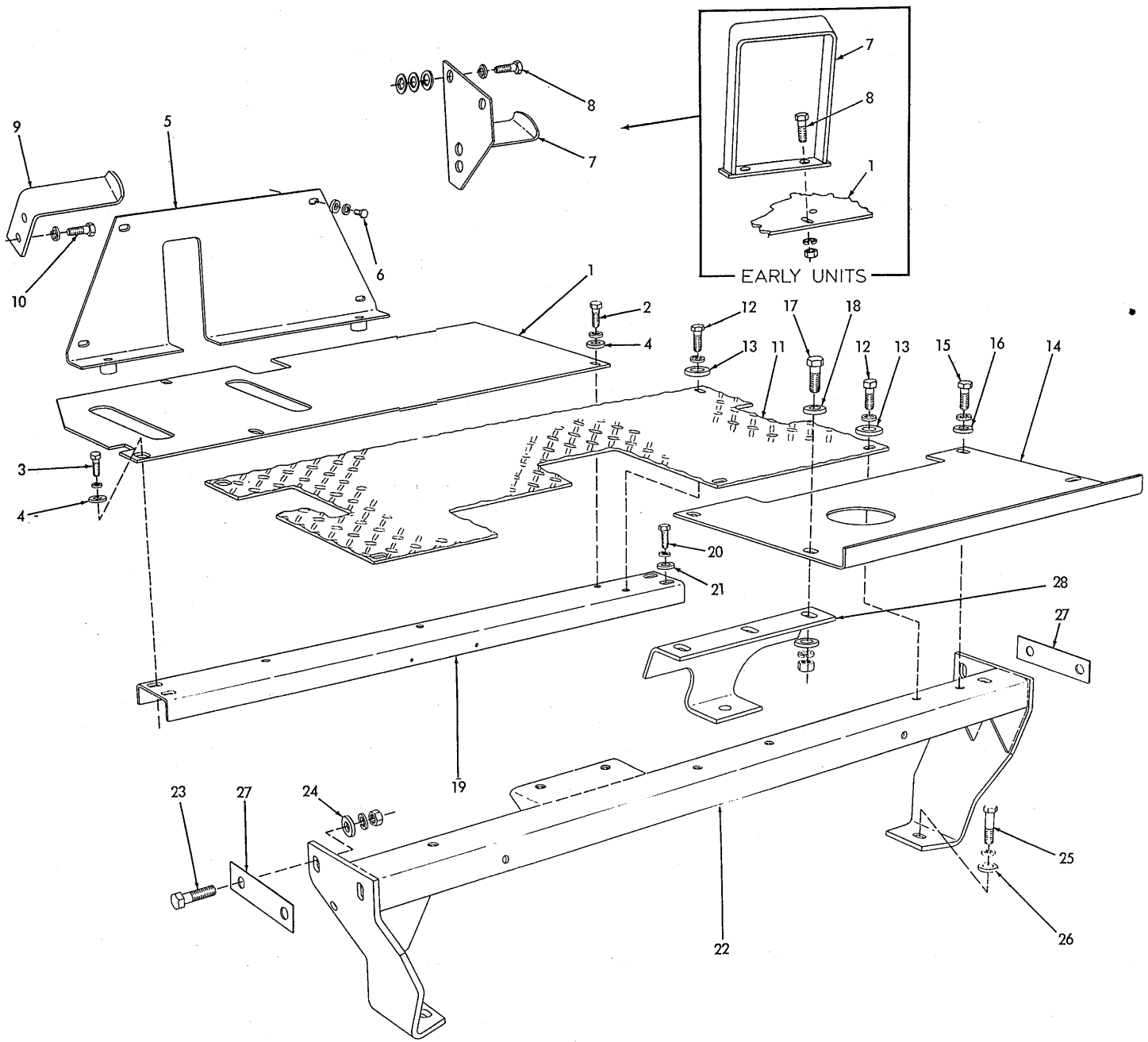



FLOOR (Model HD21F)

# FLOOR

USAGE: Model HD21F

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 631079 | 1 | PLATE, front, left side |
| 2 | 035733 | 2 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 3 | 064531 | 2 | WASHER, plain |
| 4 | 631105 | 1 | PLATE, front, center |
| 5 | 035733 | 3 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 6 | 064531 | 3 | WASHER, plain |
| 7 | 631077 | 1 | PLATE, front, right side |
| 8 | 035733 | 4 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 9 | 064531 | 4 | WASHER, plain |
| 10 | 631074 | 1 | PLATE, center |
| 11 | 035733 | 5 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| 12 | 064531 | 5 | WASHER, plain |
| 13 | 085739 | 1 | PLATE, rear (Not for units equipped with dozer prior to tractor #12001) |
| | 622978 | 1 | PLATE, rear (Not for units equipped with dozer effective with tractor #12001) |
| | 098509 | 1 | PLATE, rear (For units equipped with dozer prior to tractor #12001) |
| | 622980 | 1 | PLATE, rear (For units equipped with dozer effective with tractor #12001) |
| 14 | 035733 | 4 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 15 | 064531 | 5 | WASHER, plain |
| | 911028 | 1 | NUT, 1/2"NC |
| 16 | 623110 | 1 | CHANNEL, supporting, center and rear plates |
| 17 | 035073 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| 18 | 035068 | 2 | CAPSCREW, 1/2"NF x 2-1/4" |
| 19 | 064531 | 6 | WASHER, plain |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 20 | 085737 | 8 | SHIM, support channel (Use as req'd) |
| 21 | 085738 | 1 | BRACKET, supporting, rear plate (Used prior to tractor #8083) |
| | 089880 | 1 | BRACKET, supporting, rear plate (Effective with tractor #8083) |

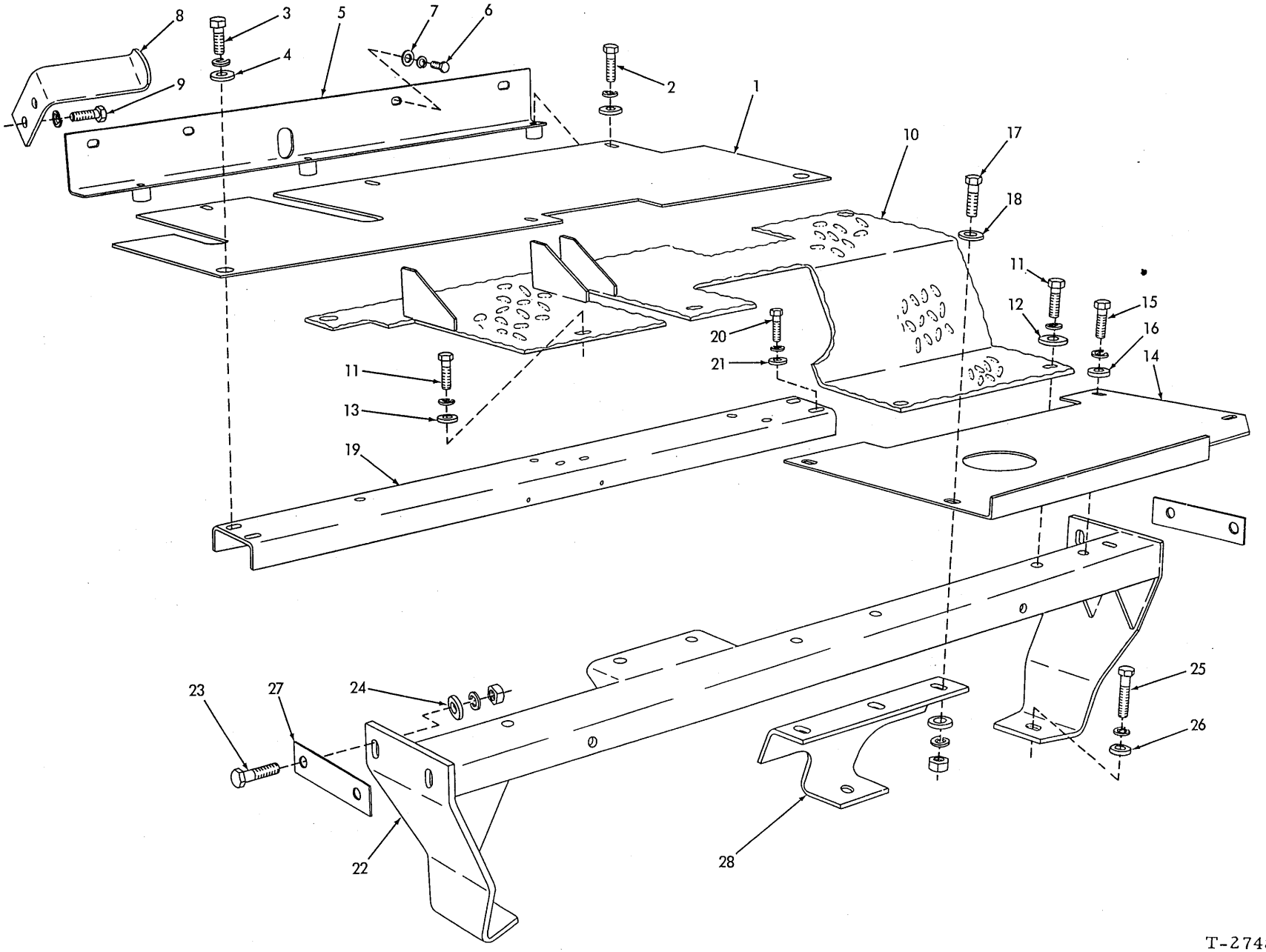



FLOOR (First type. Model HD21G)

# FLOOR

USAGE: Model HD21G prior to tractor serial No. 11725, including No. 11798

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 084447 | 1 | PLATE, front (Used prior to tractor #11562) |
| 1 | 099212 | 1 | PLATE, front (Effective with tractor #11562) |
| 2 | 035190 | 5 | CAPSCREW, 1/2"NC x 1-1/2" |
| 3 | 035061 | 1 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 4 | 064531 | 6 | WASHER, plain (1-1/8" O. D.) |
| 5 | 080350 | 1 | PLATE, supporting, front floor plate |
| 6 | 035167 | 4 | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 044973 | 4 | WASHER, plain |
| 7 | 089601 | 1 | REST, right foot (Used prior to tractor #9027) |
| 7 | 092782 | 1 | REST, right foot (Effective with tractor #9027) |
| 8 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" (Used prior to #9027) |
| 8 | 035236 | 2 | CAPSCREW, 1/2"NC x 1-3/4" (Effective with #9027) |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF (Used prior to #9027) |
| | 900818 | 6 | WASHER, plain, U.S. std., 1/2" (Effective with #9027) |
| 9 | 089556 | 1 | REST, left foot |
| 10 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, plain |
| 11 | 085772 | 1 | PLATE, center |
| 12 | 035190 | 5 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| 13 | 092163 | 5 | WASHER, plain (1-3/4" O. D.) |
| 14 | 085739 | 1 | PLATE, rear |
| 15 | 035190 | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 16 | 064531 | 3 | WASHER, plain (1-1/8" O. D.) |
| 17 | 035733 | 1 | CAPSCREW, 1/2"NC x 1-3/8" |
| 18 | 064531 | 2 | WASHER, plain (1-1/8" O. D.) |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 911028 | 1 | NUT, 1/2"NC |
| 19 | 078624 | 1 | CHANNEL, supporting, front and center plates |
| 20 | 035190 | 2 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 21 | 064531 | 2 | WASHER, plain (1-1/8" O. D.) |
| 22 | 623110 | 1 | CHANNEL, supporting, center and rear plates |
| 23 | 035073 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| 24 | 064531 | 4 | WASHER, plain (1-1/8" O. D.) |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 25 | 035068 | 2 | CAPSCREW, 1/2"NF x 2-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 26 | 064531 | 2 | WASHER, plain (1-1/8" O. D.) |
| 27 | 085737 | 8 | SHIM, support channel (Use as required) |
| 28 | 089880 | 1 | BRACKET, supporting, rear plate |

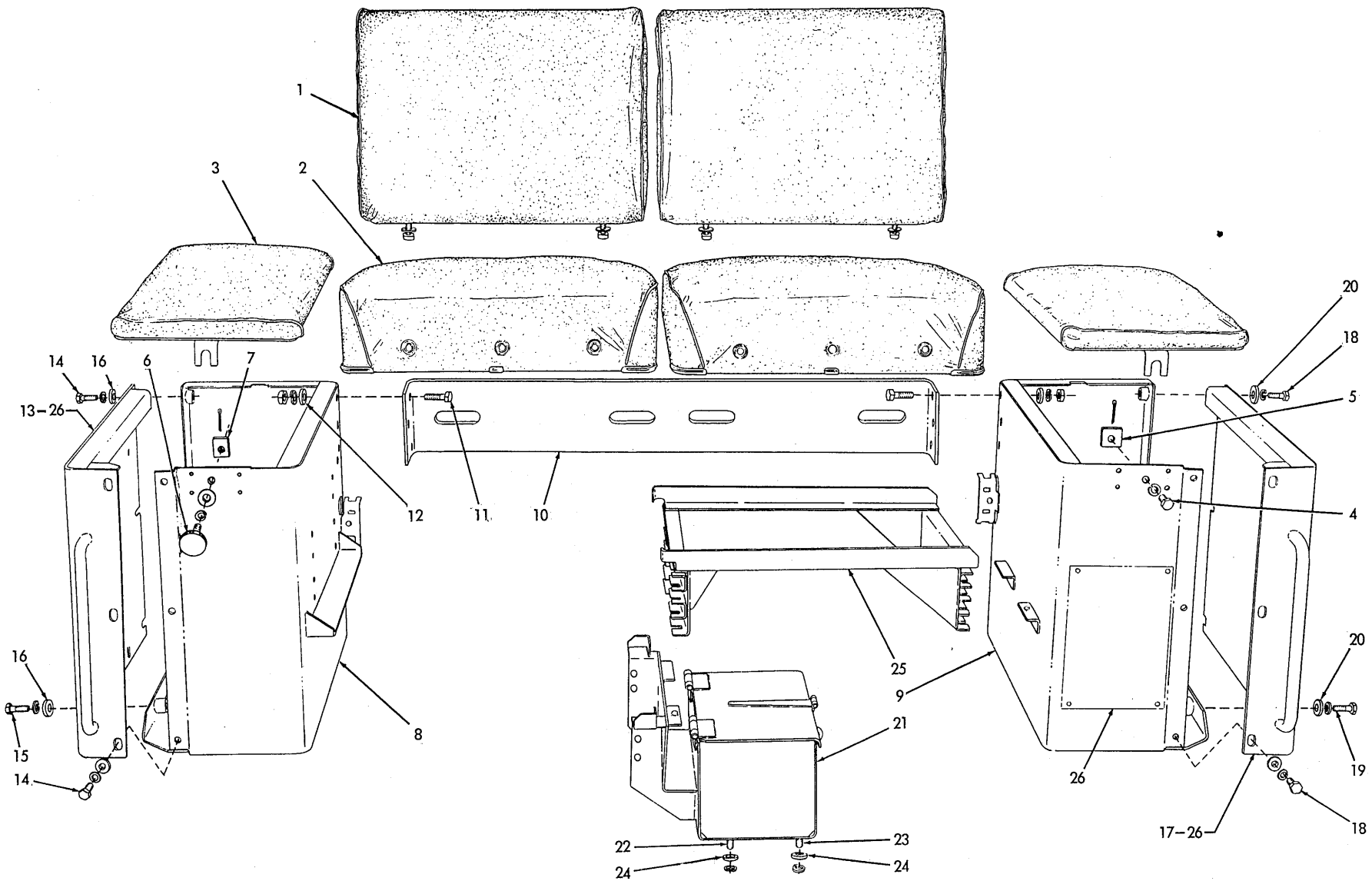



FLOOR (Second type. Model HD21G)

# FLOOR

USAGE: Model HD21G effective with tractor serial No. 11725, excluding No. 11798

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 622550 | 1 | PLATE, front |
| 2 | 035190 | 4 | CAPSCREW, 1/2"NC x 1-1/2" |
| 3 | 035061 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 4 | 064531 | 6 | WASHER, plain (1-1/8"O.D.) |
| 5 | 622535 | 1 | PLATE, supporting, front floor plate |
| 6 | 035167 | 4 | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 7 | 044973 | 4 | WASHER, plain |
| 8 | 089556 | 1 | REST, left foot |
| 9 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 10 | 622553 | 1 | PLATE, center |
| 11 | 035190 | 6 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 12 | 092163 | 4 | WASHER, plain (1-3/4"O.D.) |
| 13 | 064531 | 2 | WASHER, plain (1-1/8"O.D.) |
| 14 | 622978 | 1 | PLATE, rear |
| 15 | 035190 | 3 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| 16 | 064531 | 3 | WASHER, plain (1-1/8"O.D.) |
| 17 | 035733 | 1 | CAPSCREW, 1/2"NC x 1-3/8" |
| 18 | 064531 | 2 | WASHER, plain (1-1/8"O.D.) |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 911028 | 1 | NUT, 1/2"NC |
| 19 | 078624 | 1 | CHANNEL, supporting, front and center plates |
| 20 | 035190 | 1 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 21 | 064531 | 1 | WASHER, plain (1-1/8"O.D.) |
| 22 | 623110 | 1 | CHANNEL, supporting, center and rear plates |
| 23 | 035073 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| 24 | 064531 | 4 | WASHER, plain (1-1/8"O.D.) |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 25 | 035068 | 2 | CAPSCREW, 1/2"NF x 2-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 26 | 064531 | 2 | WASHER, plain (1-1/8"O.D.) |
| 27 | 085737 | 8 | SHIM, support channel (Use as req'd) |
| 28 | 089880 | 1 | BRACKET, supporting, rear plate |



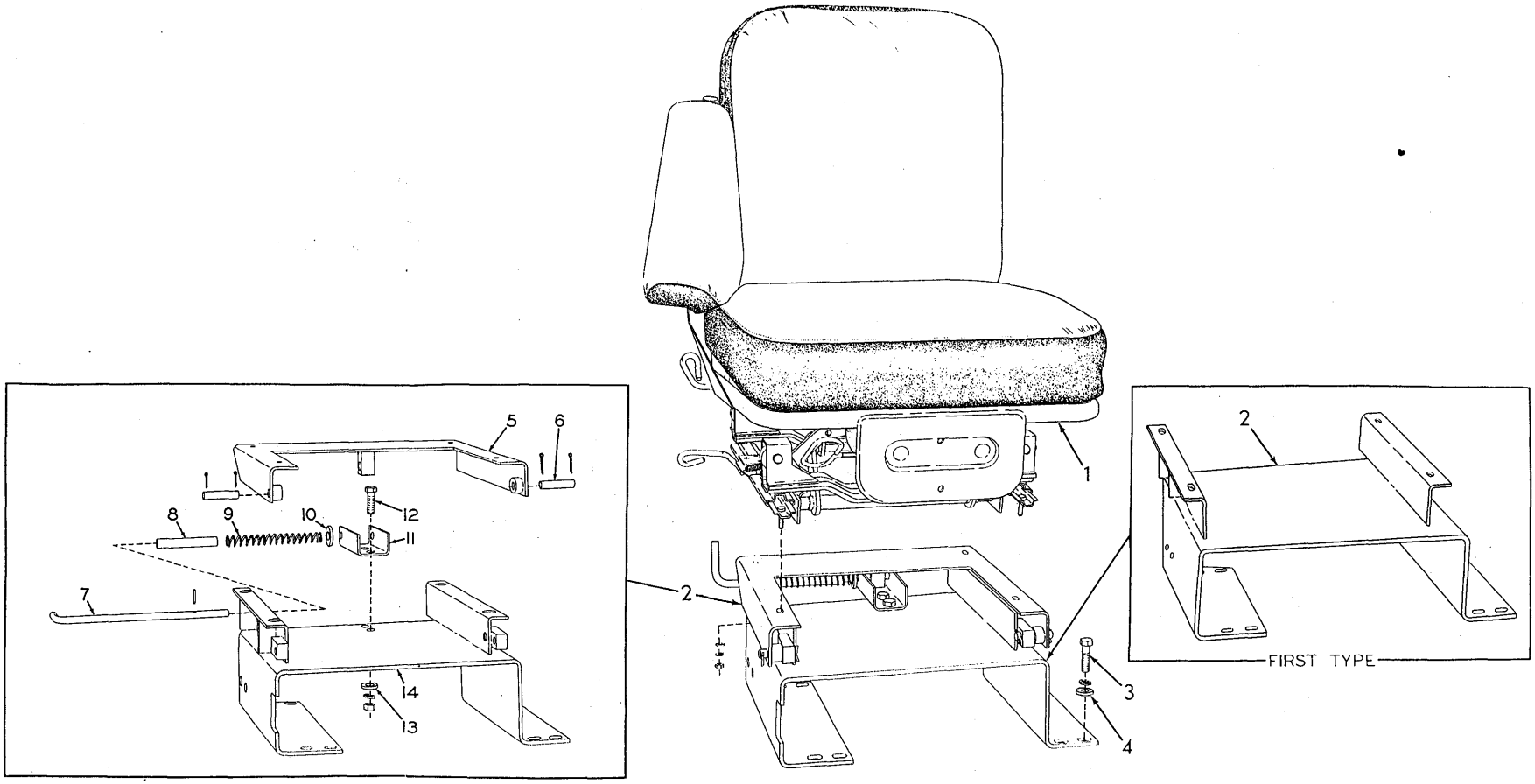

SEAT AND BATTERY BOXES (Model HD21A)

# SEAT AND BATTERY BOXES

USAGE: Model HD21A tractors only. See pages 487 and 499 for optional Bucket Seats

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | 083262 | 2 | *CUSHION, back (Includes NUTS indented below) | |
| | 910882 | 4 | *NUT, square, 1/2"NC | |
| | 910244 | 4 | *WASHER, plain, SAE std., 1/2" | |
| 2 | 083261 | 2 | *CUSHION, seat | |
| 3 | 083263 | 2 | CUSHION, arm | |
| 4 | 050510 | 1 | CAPSCREW, retaining, arm cushion (1/2"NF x 1-1/2") | 2 used prior to tractor #11001 |
| | 904208 | 1 | LOCKWASHER, 1/2" | |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" | |
| 5 | 050551 | 1 | BLOCK, retaining, arm cushion (1/2"NF) | |
| 6 | 091976 | 1 | KNOB, retaining, right arm cushion | Effective with tractor #11001 |
| | 904208 | 1 | LOCKWASHER, 1/2" | |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" | |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" | |
| 7 | 624488 | 1 | BLOCK, retaining, right arm cushion (1/2"NC) | |
| 8 | 082372 | 1 | BOX, right battery | |
| 9 | 082371 | 1 | BOX, left battery | |
| 10 | 083871 | 1 | BRACE, battery box | |
| 11 | 035018 | 6 | CAPSCREW, 1/2"NF x 1-1/2" | |
| 12 | 064531 | 6 | WASHER, plain | |
| | 904208 | 6 | LOCKWASHER, 1/2" | |
| | 911043 | 6 | NUT, 1/2"NF | |
| 13 | 065242 | 1 | COVER, right battery box | |
| 14 | 035018 | 6 | CAPSCREW, 1/2"NF x 1-1/2" | |
| 15 | 614478 | 2 | CAPSCREW, 1/2"NF x 1-3/8" | |
| | 904208 | 8 | LOCKWASHER, 1/2" | |
| 16 | 064531 | 8 | WASHER, plain | |
| 17 | 065241 | 1 | COVER, left battery box | |
| 18 | 035018 | 6 | CAPSCREW, 1/2"NF x 1-1/2" | |
| 19 | 614478 | 2 | CAPSCREW, 1/2"NF x 1-3/8" | |
| | 904208 | 8 | LOCKWASHER, 1/2" | |
| 20 | 064531 | 8 | WASHER, plain | |
| 21 | 073225 | 1 | *BOX, tool (Used prior to tractor #8060) | |
| | 089739 | 1 | *BOX, tool (Effective with tractor #8060) | |
| 22 | 035190 | 2 | *CAPSCREW, 1/2"NC x 1-1/2" | |
| 23 | 035733 | 2 | *CAPSCREW, 1/2"NC x 1-3/8" | |
| | 904208 | 4 | *LOCKWASHER, 1/2" | |
| 24 | 064531 | 4 | *WASHER, plain | |
| 25 | 073222 | 1 | *FRAME, seat | |
| 26 | ------ | - | PLATE and TRANSFERS (See PAINTING AND MARKING) | |

*Not used when Bucket Seat is installed in place of Standard Seat.




T-19506

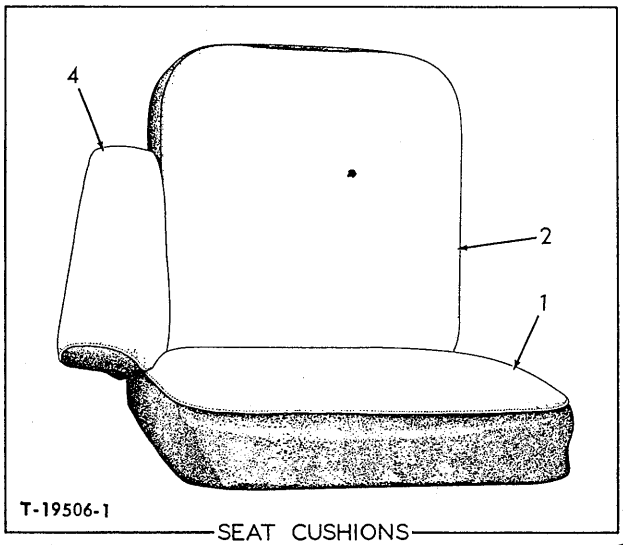
BUCKET SEAT (First type, Model HD21A)

# BUCKET SEAT

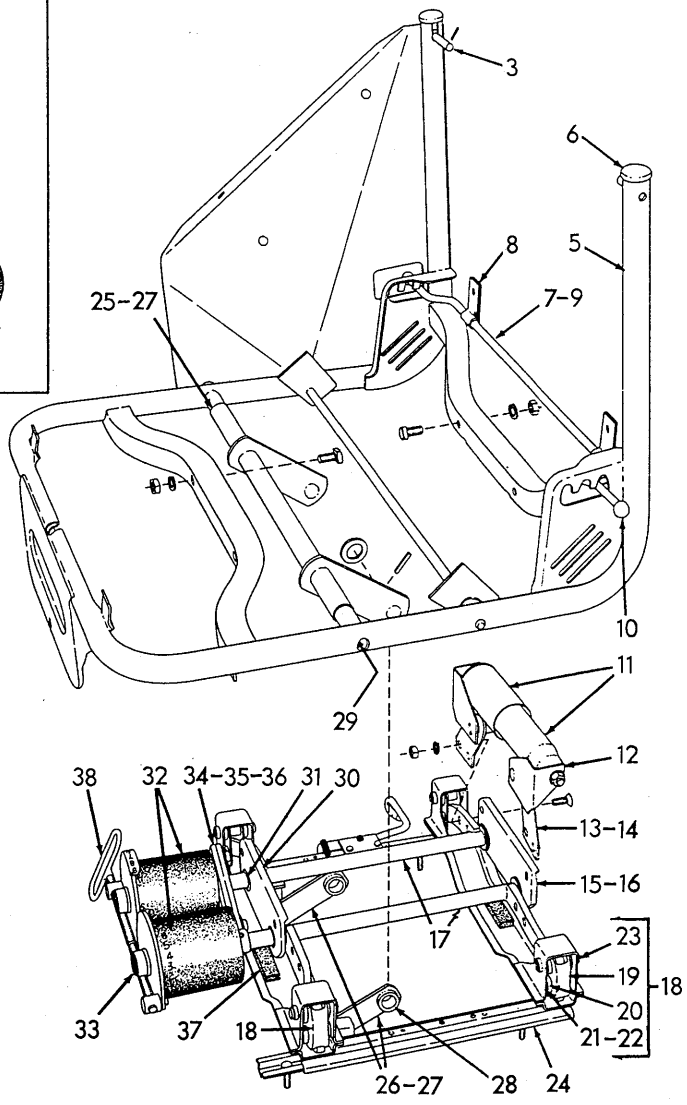
USAGE: Optional equipment on Model HD21A tractors prior to September 1961

* Tractors prior to serial No. 12001
** Tractors serial No. 12001 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 092679 | 1 | 1 | SEAT ASSEMBLY (Includes NUT and LOCKWASHER indented below. See page 488 for parts)(Order SEAT ASSEMBLY 622493, 3 BLOCKS 067034 and print of 628498) |
| | 910335 | 4 | 4 | WASHER, plain, SAE std., 5/16" |
| | 904205 | 4 | 4 | LOCKWASHER, 5/16" |
| | 911025 | 4 | 4 | NUT, 5/16"NC |
| 2 | ------ | 1 | - | SUPPORT, seat (Order FRAME ASSEMBLY 627344) |
| | 627344 | - | 1 | FRAME ASSEMBLY, seat (Consists of items 5 thru 14) |
| 3 | 035236 | 4 | 4 | CAPSCREW, 1/2"NC x 1-3/4" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| 4 | 064531 | 4 | 4 | WASHER, plain |
| 5 | 627343 | - | 1 | CHANNEL, seat frame, upper |
| 6 | 627329 | - | 2 | PIN, pivot |
| | 900805 | - | 4 | PIN, cotter, 1/8" x 3/4" |
| 7 | 627341 | - | 1 | ROD, seat latching |
| | 916001 | - | 1 | PIN, roll, 3/16" x 1" |
| 8 | 627340 | - | 1 | SLEEVE, seat latching rod |
| 9 | 090487 | - | 1 | SPRING, seat latching rod |
| 10 | 047063 | - | 1 | WASHER, spring retaining |
| 11 | 627339 | - | 1 | CHANNEL, seat frame, lower |
| 12 | 035018 | - | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| 13 | 064531 | - | 2 | WASHER, plain |
| | 904208 | - | 2 | LOCKWASHER, 1/2" |
| | 911043 | - | 2 | NUT, 1/2"NF |
| 14 | 627359 | - | 1 | SUPPORT, seat |




SEAT CUSHIONS




SEAT ASSEMBLY 092679

USAGE: See page 487

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 094271 | 1 | CUSHION, seat |
| 2 | 094272 | 1 | CUSHION, back |
| | 900576 | 2 | SCREW, machine, 1/4"NC x 3/4" |
| | 904204 | 2 | LOCKWASHER, 1/4" |

(Continued)

SEAT ASSEMBLY 092679 (Continued)

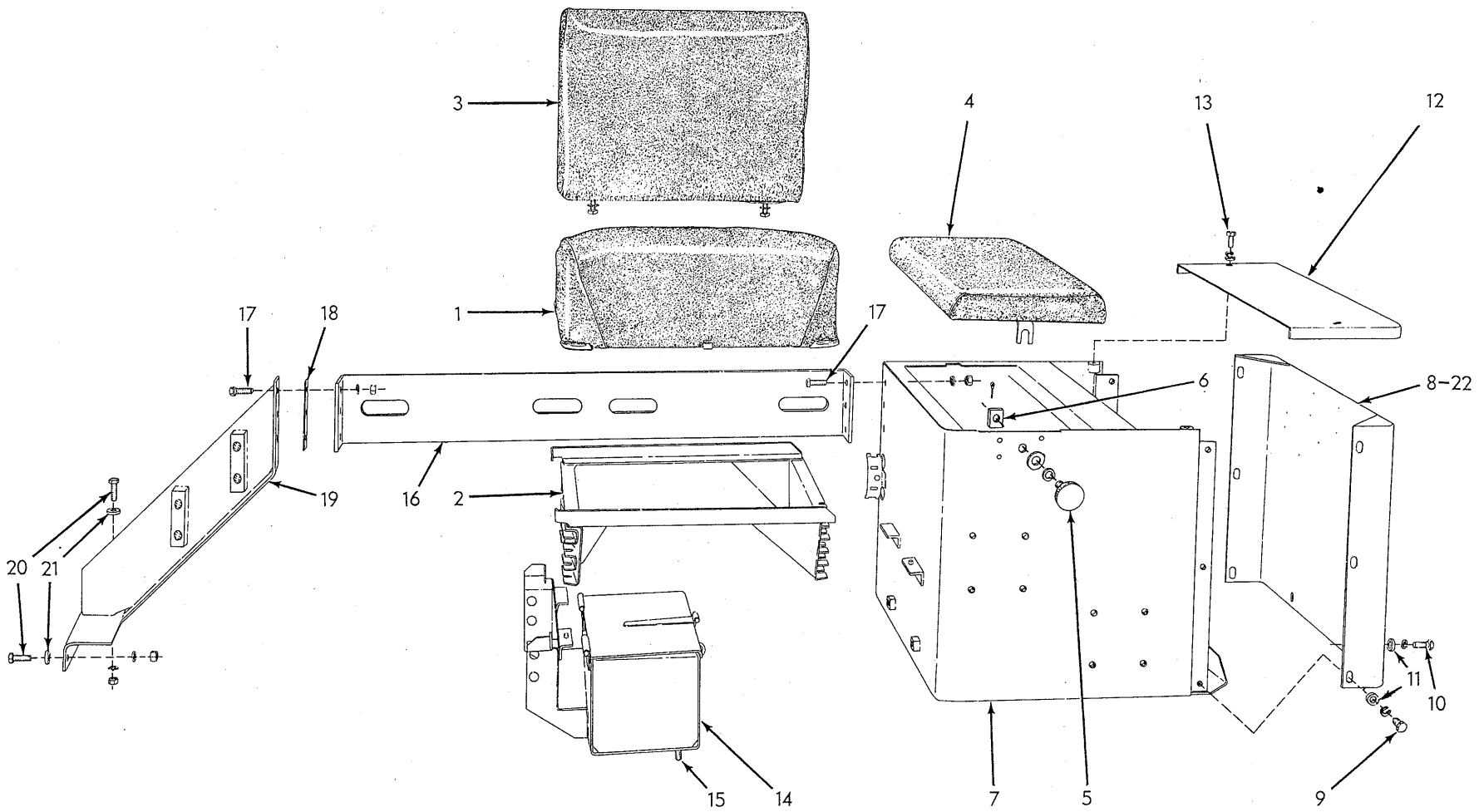
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 3 | 094277 | 2 | PIN, clevis, back cushion |
| | 916202 | 2 | PIN, roll, 1/8" x 7/8" |
| 4 | 094273 | 1 | CUSHION, right arm |
| | 900561 | 3 | SCREW, machine, 5/16"NC x 3/4" |
| | 904205 | 3 | LOCKWASHER, 5/16" |
| 5 | 094251 | 1 | FRAME ASSEMBLY (Includes seat cushion adjustment) |
| 6 | 094274 | 2 | PLUG, button, frame top |
| 7 | 094268 | 1 | ROD ASSEMBLY, adjusting, back cushion (Includes items 8 and 9) |
| 8 | 094269 | 2 | BRACKET, back cushion adjusting rod |
| 9 | 094270 | 1 | SPRING, torsion, adjusting rod |
| 10 | 094275 | 2 | HANDLE, adjusting rod (plastic) |
| 11 | 094246 | 1 | ABSORBER ASSEMBLY, shock (Serviced only as a unit) |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 910123 | 2 | NUT, 3/8"NF |
| 12 | 094249 | 1 | BRACKET ASSEMBLY, shock absorber, left (Includes pivot pin) |
| | 094250 | 1 | BRACKET ASSEMBLY, shock absorber, right (Includes pivot pin) |
| | 900805 | 2 | PIN, cotter, 1/8" x 3/4" |
| 13 | 094247 | 1 | BRACKET ASSEMBLY, pivot, left (Includes item 14) |
| | 094248 | 1 | BRACKET ASSEMBLY, pivot, right (Includes item 14) |
| | 914814 | 4 | SCREW, machine, fl-hd., 3/8"NC x 1" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 911026 | 4 | NUT, 3/8"NC |
| 14 | 094314 | 4 | BEARING, pivot bracket |
| 15 | 094262 | 1 | BULKHEAD ASSEMBLY, rear (Includes item 16) |
| | 903629 | 2 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911026 | 2 | NUT, 3/8"NC |
| 16 | 094261 | 2 | BEARING, rear bulkhead |
| 17 | 094253 | 1 | SHAFT AND ARM, spring, left |
| | 094254 | 1 | SHAFT AND ARM, spring, right |
| 18 | 094255 | 4 | KIT, short link (Consists of items 19 thru 23) |
| 19 | ------ | 4 | LINK, short (Not serviced. Order item 18) |
| 20 | 094256 | 16 | BEARING, short link |

(Continued)

## SEAT ASSEMBLY 092679 (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 21 | 094259 | 4 | PIN, lower (1/2" x 1-1/4") |
| 22 | 094257 | 4 | WASHER, thrust, lower pin |
| 23 | 094258 | 4 | PIN, pivot (1/2" x 2-1/8") |
| 24 | 094252 | 1 | BRACKET ASSEMBLY, base (Includes slide rails and adjusting lever) |
| 25 | 094242 | 1 | YOKE ASSEMBLY, upper (Includes item 27) |
| | 916001 | 2 | PIN, roll, 3/16" x 1" |
| | 913092 | 2 | WASHER, plain, 25/32"I.D. |
| 26 | 094244 | 1 | YOKE ASSEMBLY, lower (Includes items 27 and 28) |
| 27 | 094243 | 4 | BEARING, yoke (1/2"I.D.) |
| 28 | 094245 | 2 | BEARING, yoke (3/4"I.D.) |
| 29 | 094278 | 4 | PIN, drive, upper and lower yoke |
| 30 | 094260 | 1 | BULKHEAD ASSEMBLY, center (Includes item 31) |
| | 903629 | 2 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| | 911026 | 2 | NUT, 3/8"NC |
| 31 | 094261 | 2 | BEARING, bulkhead |
| 32 | 094263 | 1 | SPRING ASSEMBLY, rubber, left (Serviced only as a unit. Includes item 33) |
| | 094264 | 1 | SPRING ASSEMBLY, rubber, right (Serviced only as a unit. Includes item 33) |
| | 917977 | 2 | PIN, roll, 1/4" x 1-3/16" |
| 33 | 094265 | 2 | BEARING, rubber spring |
| 34 | 094266 | 1 | KIT, stabilizing link (Consists of items 35 and 36) |
| 35 | ------ | 1 | LINK ASSEMBLY (Not serviced. Order item 34) |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| | 916202 | 2 | PIN, roll, 1/8" x 7/8" |
| 36 | 094332 | 2 | BEARING, stabilizing link |
| 37 | 094276 | 2 | BUMPER, rubber |
| 38 | 094267 | 1 | STUD ASSEMBLY, weight adjusting (Includes swivel pin) |
| | 916202 | 2 | PIN, roll, 1/8" x 7/8" |

MEMO



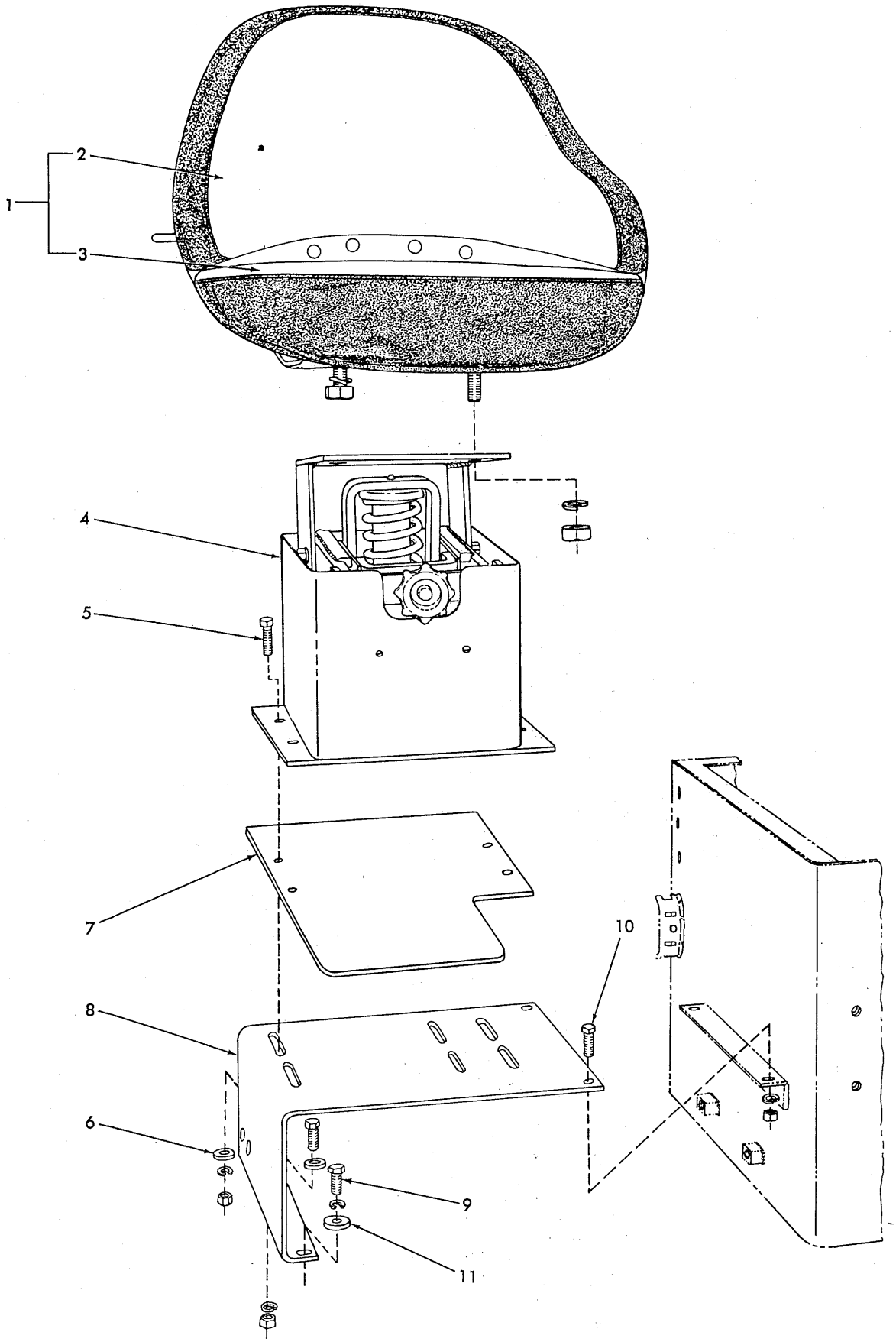

T-15217

SEAT AND BATTERY BOX (Model HD21F)

# SEAT AND BATTERY BOX

USAGE: Model HD21F

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 083261 | 1 | CUSHION, seat |
| 2 | 073222 | 1 | FRAME |
| 3 | 083262 | 1 | CUSHION, back (Includes NUTS indented below) |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| | 910882 | 2 | NUT, square, 1/2"NC |
| 4 | 083263 | 1 | CUSHION, arm |
| 5 | 050510 | 1 | CAPSCREW, arm cushion retaining (1/2"NF x 1-1/2")(Used prior to tractor #11001) |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| | 091976 | 1 | KNOB, arm cushion retaining (Effective with tractor #11001) |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| 6 | 050551 | 1 | BLOCK, tapped, cushion retaining capscrew (1/2"NF)(Used prior to tractor #11001) |
| | 624488 | 1 | BLOCK, tapped, cushion retaining knob (1/2"NC)(Effective with tractor #11001) |
| 7 | 085740 | 1 | BOX, battery |
| 8 | 080207 | 1 | COVER, battery box side |
| 9 | 035018 | 6 | CAPSCREW, 1/2"NF x 1-1/2" |
| 10 | 614478 | 2 | CAPSCREW, 1/2"NF x 1-3/8" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 11 | 064531 | 8 | WASHER, plain |
| 12 | 089336 | 1 | COVER, battery box top |
| 13 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 900818 | 2 | WASHER, plain, U.S. std., 1/2" |
| 14 | 089739 | 1 | BOX, tool |
| 15 | 035190 | 4 | CAPSCREW, 1/2"NC x 1-1/2" |
| | 064531 | 4 | WASHER, plain |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911028 | 2 | NUT, 1/2"NC |
| 16 | 083871 | 1 | BRACE, battery box |
| 17 | 035018 | 5 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 5 | NUT, 1/2"NF |
| 18 | 087472 | 3 | SHIM, battery box brace (Use as required) |
| 19 | 094958 | 1 | BRACKET, battery box brace |
| 20 | 035073 | 2 | CAPSCREW, 1/2"NF x 1-3/4" |
| 21 | 064531 | 2 | WASHER, plain |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 22 | ------ | - | TRANSFER (See PAINTING AND MARKING) |



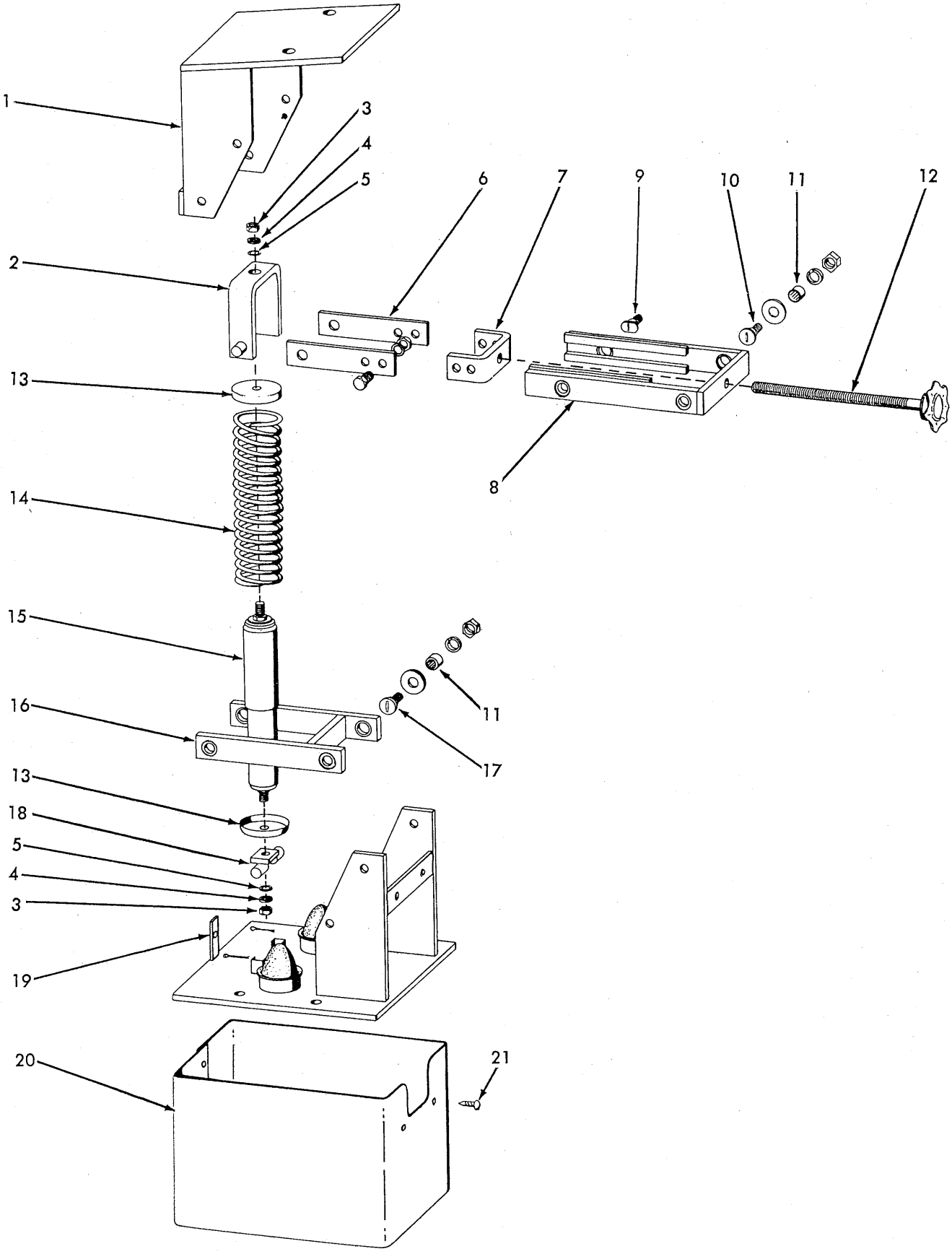

SEAT (First type. Model HD21G)

T-24031

# SEAT

USAGE: Model HD21G prior to tractor serial No. 11725 including No. 11798

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | SEAT (Includes integral cushions; also NUT and LOCKWASHER indented below)(Used prior to tractor #11659. Order SEAT ASSEMBLY 182671) |
| | 904369 | 2 | LOCKWASHER, 3/4" |
| | 900408 | 2 | NUT, square, 3/4"NC |
| 1 | 182671 | 1 | SEAT ASSEMBLY (Includes items 2 and 3; also NUT and LOCKWASHER indented below)(Effective with tractor #11659) |
| | 904369 | 2 | LOCKWASHER, 3/4" |
| | 910923 | 2 | NUT, hex, 3/4"NC |
| 2 | 182718 | 1 | CUSHION, back (Effective with tractor #11659) |
| | 916268 | 3 | CAPSCREW, 3/8"NC x 5/8" |
| 3 | 182719 | 1 | CUSHION, seat (Effective with tractor #11659) |
| | 916268 | 2 | CAPSCREW, 3/8"NC x 5/8" |
| 4 | 169557 | 1 | SUPPORT ASSEMBLY, seat (See page 497 for parts) |
| 5 | 035073 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| 6 | 064531 | 4 | WASHER, plain |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 7 | ------ | 1 | PLATE, foot rest (Discontinued) |
| 8 | 089531 | 1 | PLATE, seat supporting |
| 9 | 035236 | 2 | CAPSCREW, 1/2"NC x 1-3/4" |
| 10 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| 11 | 064531 | 2 | WASHER, plain |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911028 | 1 | NUT, 1/2"NC |
| | 911043 | 2 | NUT, 1/2"NF |



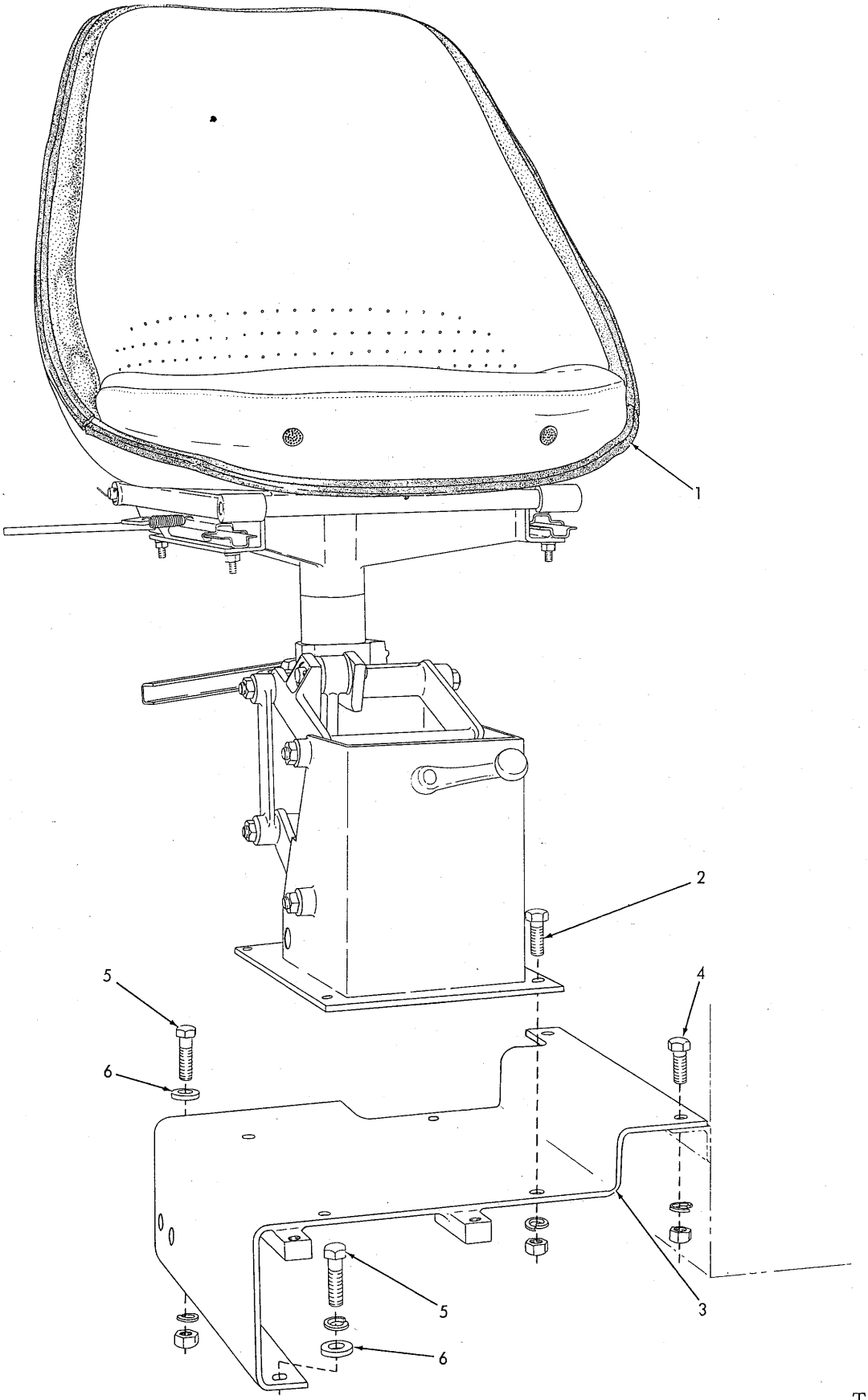

T-14770

SEAT SUPPORT ASSEMBLY 169557

# SEAT SUPPORT ASSEMBLY 169557

USAGE: See page 495

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 169803 | 1 | PLATE, seat mounting |
| 2 | 169805 | 1 | CLEVIS, seat adjusting |
| 3 | 169808 | 2 | LOCKNUT, shock absorber |
| 4 | 169809 | 2 | WASHER, plain |
| 5 | 169810 | 2 | GASKET (rubber) |
| 6 | 169815 | 2 | PLATE, yoke |
| | 915228 | 4 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 910123 | 4 | NUT, 3/8"NF |
| 7 | 169816 | 1 | YOKE, seat adjusting |
| 8 | 169801 | 1 | ARM ASSEMBLY, upper (Includes item 11) |
| 9 | 169821 | 2 | BOLT |
| 10 | 169819 | 2 | BOLT |
| | 913289 | 4 | WASHER, plain, U.S. std., 9/16" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 910195 | 4 | NUT, 1/2"NF |
| 11 | 800781 | 8 | BEARING, needle |
| 12 | 169804 | 1 | SCREW, seat adjusting |
| 13 | 169814 | 2 | CUP, shock absorber spring |
| 14 | 169818 | 1 | SPRING, shock absorber |
| 15 | 169812 | 1 | ABSORBER, shock |
| 16 | 169802 | 1 | ARM ASSEMBLY, lower (Includes item 11) |
| 17 | 169819 | 4 | BOLT |
| | 913289 | 4 | WASHER, plain, U.S. std., 9/16" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 910195 | 4 | NUT, 1/2"NF |
| 18 | 169806 | 1 | ROCKER, shock absorber |
| | 900803 | 2 | PIN, cotter, 3/32" x 1-1/4" |
| 19 | 169807 | 1 | PLATE, base |
| 20 | 169822 | 1 | SHIELD |
| 21 | 913300 | 5 | SCREW, thread-cutting, slotted rd-hd., #12 x 1/2" |

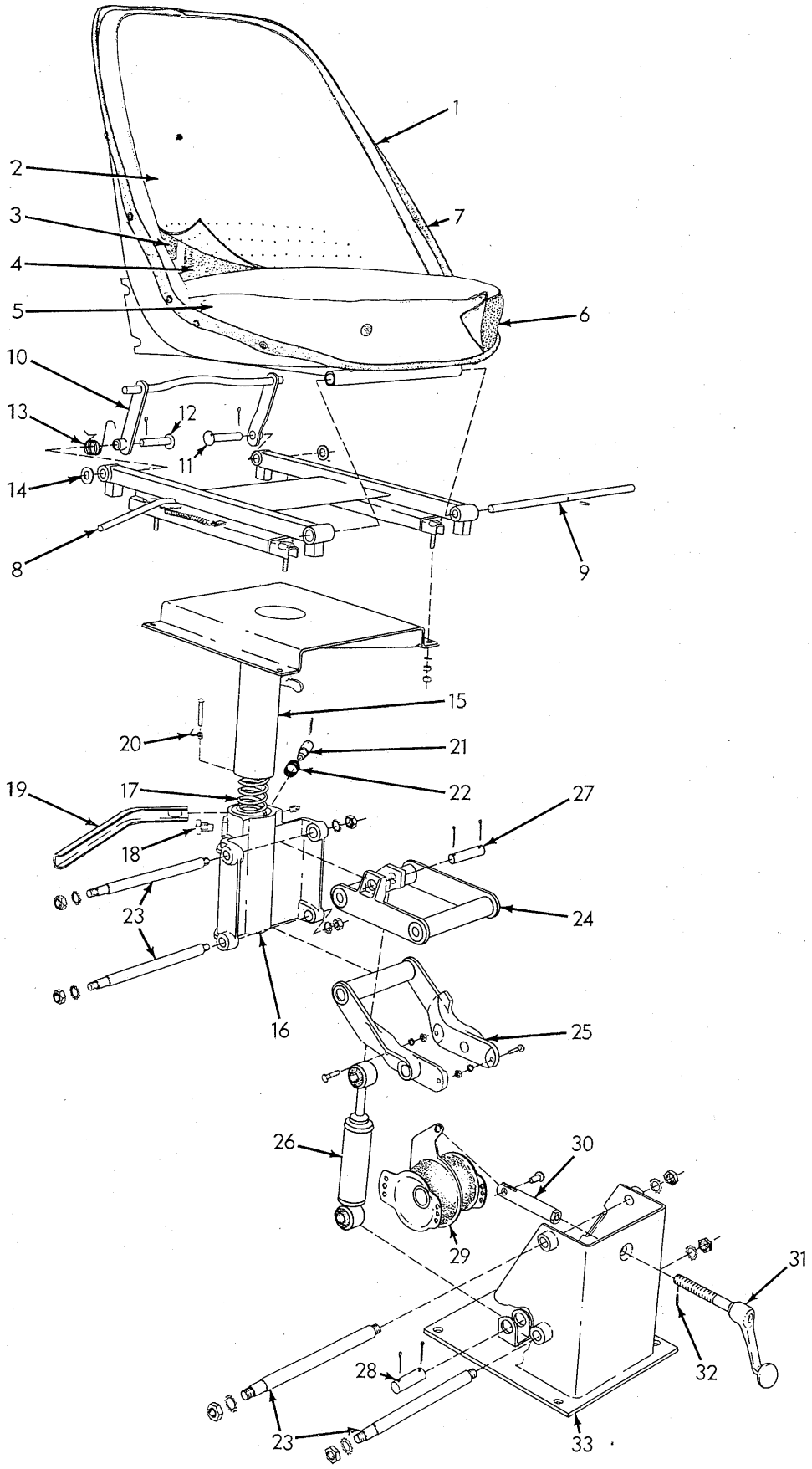



BUCKET SEAT (Second type)

# BUCKET SEAT

* Standard equipment on Model HD21G effective with tractor serial No. 11725, excluding No. 11798
** Optional equipment on Model HD21A effective September 1961

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 622493 | 1 | 1 | SEAT ASSEMBLY (See page 501 for parts)(Original equipment) |
| | 644748 | 1 | 1 | SEAT ASSEMBLY (See page 503 for parts)(Service replacement for SEAT ASSEMBLY 622493) |
| | 645563 | 1 | 1 | SEAT ASSEMBLY (See page 503 for parts)(Same as SEAT ASSEMBLY 644748 except has fire-resistant covers) |
| 2 | 070469 | 4 | - | CAPSCREW, 1/2"NF x 1-1/4" |
| | 035733 | - | 4 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | - | NUT, 1/2"NF |
| | 067034 | - | 3 | BLOCK, tapped (Requires welding to bottom of rear floor plate on field units) |
| 3 | 622492 | 1 | - | BRACKET, mounting |
| 4 | 070469 | 2 | - | CAPSCREW, 1/2"NF x 1-1/4" |
| 5 | 035236 | 2 | - | CAPSCREW, 1/2"NC x 1-3/4" |
| 6 | 064531 | 2 | - | WASHER, plain |
| | 904208 | 4 | - | LOCKWASHER, 1/2" |
| | 911028 | 2 | - | NUT, 1/2"NC |
| | 911043 | 2 | - | NUT, 1/2"NF |




SEAT ASSEMBLY 622493

# SEAT ASSEMBLY 622493

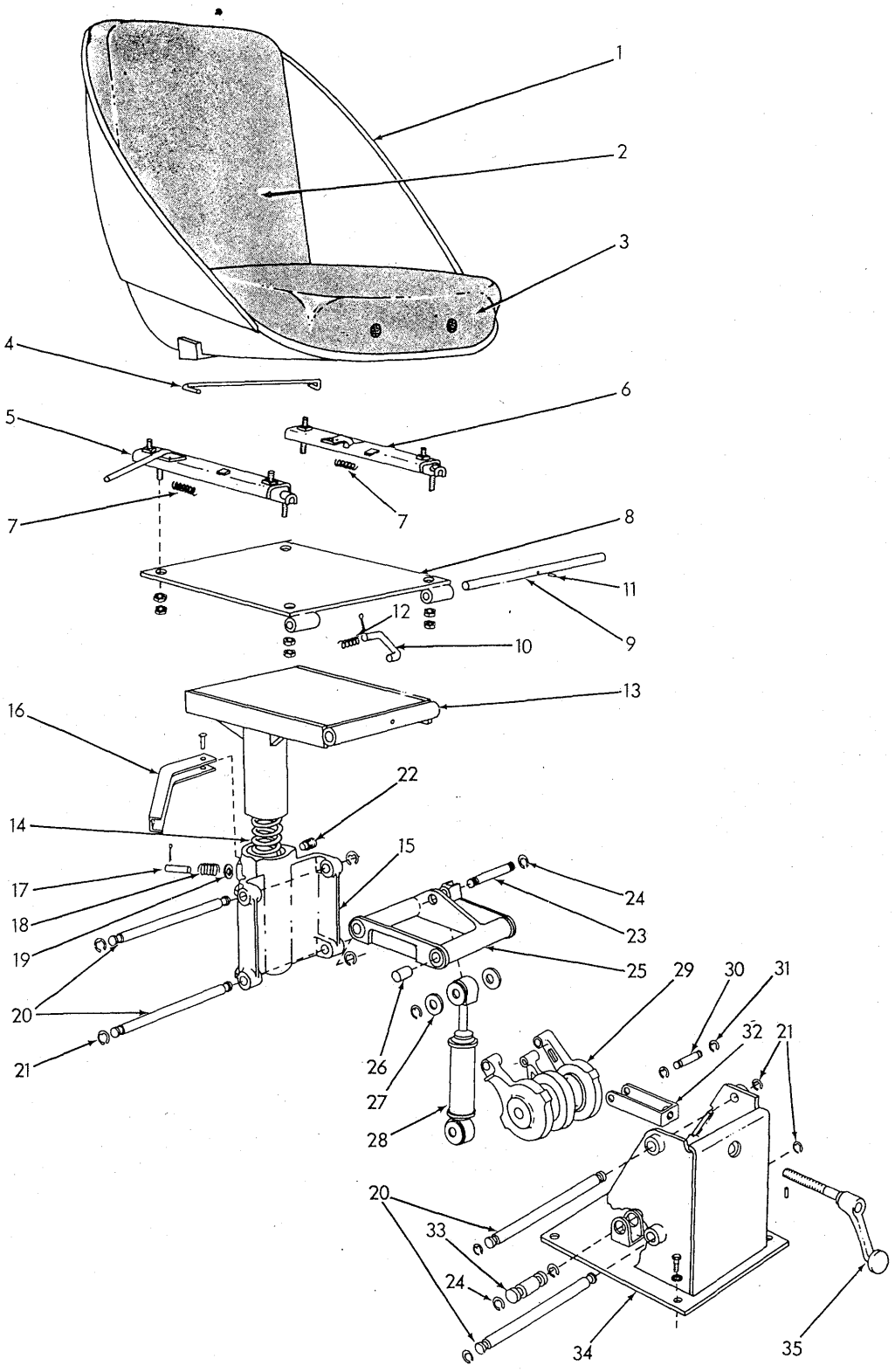
USAGE: See page 499

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 628006 | 1 | SEAT (Includes items 2 thru 7) |
| 2 | 628112 | 1 | COVER, back cushion |
| 3 | 628113 | 1 | FILLER, back cushion |
| 4 | 628111 | 1 | PAD, seat back |
| 5 | 628110 | 1 | COVER, seat cushion |
| 6 | 628109 | 1 | FILLER, seat cushion |
| 7 | 628114 | 1 | MOLDING, seat frame |
| 8 | 627481 | 1 | SLIDE ADJUSTER ASSEMBLY (Serviced only as a unit) |
| | 904205 | 4 | LOCKWASHER, 5/16" |
| | 913636 | 8 | NUT, 5/16"NF |
| 9 | 627480 | 1 | SHAFT, slide adjuster |
| | 920335 | 1 | PIN, roll, 5/32" x 1-1/8" |
| 10 | 627499 | 1 | LEVER, release |
| 11 | 628002 | 1 | PIN, release lever, left side |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| 12 | 628004 | 1 | PIN, release lever, right side |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| 13 | 628003 | 1 | SPRING, release lever |
| 14 | 628001 | 2 | WASHER, release lever pins |
| 15 | 627482 | 1 | SUPPORT, seat |
| 16 | 627489 | 1 | COLUMN, seat support |
| | 914465 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| 17 | 628005 | 1 | SPRING, seat support |
| 18 | 627498 | 1 | SCREW, locking, seat support column |
| 19 | 627484 | 1 | LEVER, height adjustment |
| | 911452 | 1 | RIVET, button-hd., 3/8" x 1" |
| 20 | 627485 | 1 | SPRING, adjustment lever |
| 21 | 627487 | 1 | PIN, adjustment lever |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| 22 | 627486 | 1 | SPRING, adjustment lever pin |
| 23 | 627491 | 4 | SHAFT, suspension levers |
| | 910210 | 8 | LOCKWASHER, ext-tooth, 1/2" |
| | 911035 | 8 | NUT, jam, 1/2"NC |
| 24 | 627494 | 1 | LEVER, suspension, upper |
| 25 | 627493 | 1 | LEVER, suspension, lower |
| | 903625 | 4 | CAPSCREW, 1/4"NC x 3/4" |
| | 904204 | 4 | LOCKWASHER, 1/4" |
| | 911024 | 4 | NUT, 1/4"NC |
| 26 | 627490 | 1 | SHOCK ABSORBER |
| 27 | 627483 | 1 | PIN, retaining, shock absorber (upper) |
| | 900803 | 2 | PIN, cotter, 3/32" x 1-1/4" |
| 28 | 627492 | 1 | PIN, retaining, shock absorber (lower) |
| | 900803 | 2 | PIN, cotter, 3/32" x 1-1/4" |
| 29 | 627497 | 1 | TORSION UNIT, rubber |
| 30 | 627488 | 1 | LINK, adjusting crank |
| | 910310 | 1 | RIVET, button-hd., 3/8" x 1" |
| 31 | 627495 | 1 | CRANK, adjusting, torsion unit |

(Continued)

## SEAT ASSEMBLY 622493 (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 32 | 085239 | 1 | PIN, adjusting crank |
| 33 | 627496 | 1 | HOUSING, torsion unit |



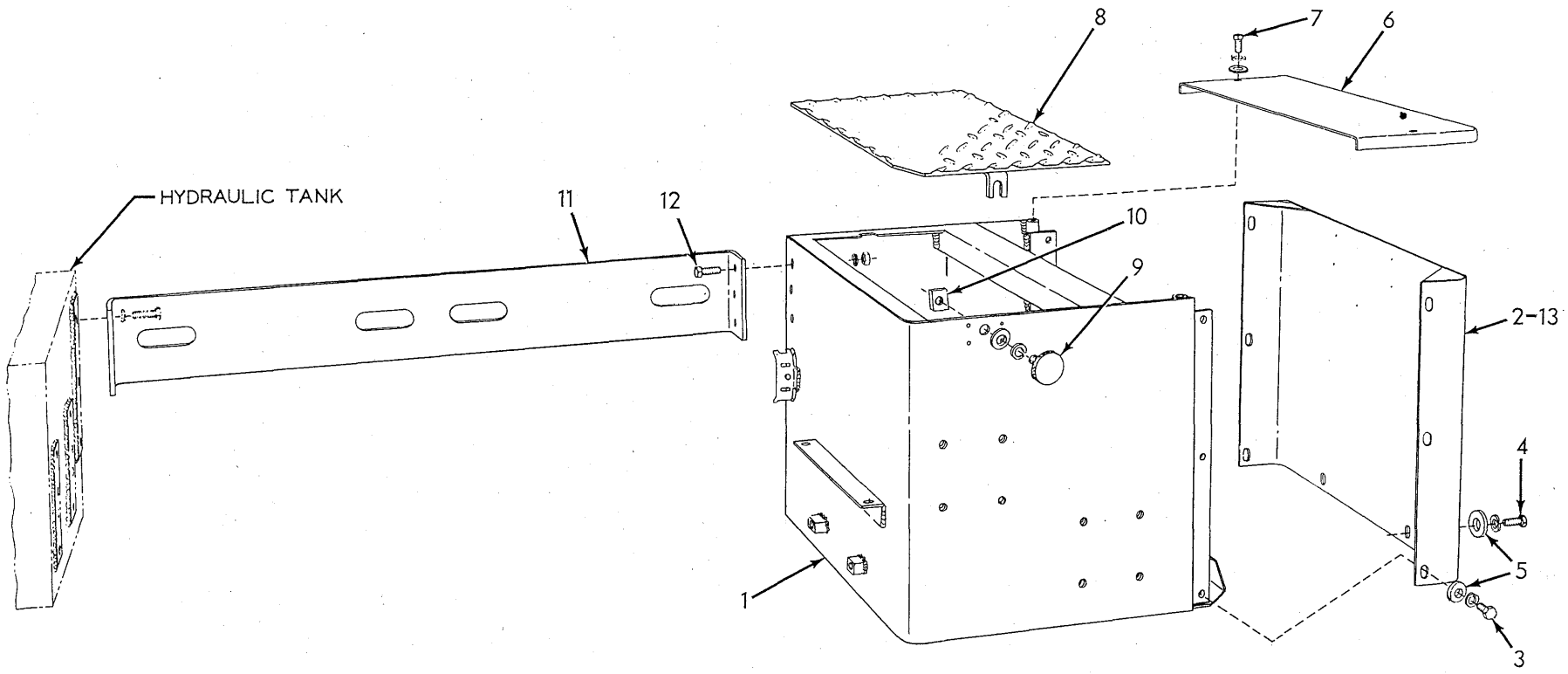

SEAT PARTS

# SEAT PARTS

644748 SEAT ASSEMBLY (Standard)
645563 SEAT ASSEMBLY (Fire-resistant)
} See page 499

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 644749 | 1 | SEAT ASSEMBLY (Standard) (Includes items 2 and 3) |
| | 645566 | 1 | SEAT ASSEMBLY (Fire-resistant) (Includes items 2 and 3) |
| 2 | 644835 | 1 | FILLER, back cushion |
| | 644839 | 1 | COVER, back cushion (standard) |
| | 645584 | 1 | COVER, back cushion (fire-resistant) |
| 3 | 628109 | 1 | FILLER, seat cushion |
| | 188430 | 1 | COVER, seat cushion (standard) |
| | 645692 | 1 | COVER, seat cushion (fire-resistant) |
| 4 | 188407 | 1 | ROD, latch |
| 5 | 188405 | 1 | ADJUSTER ASSEMBLY, slide, right (Includes item 7) |
| | 914805 | 2 | SCREW, mach., flat hd., 5/16"NC x 7/8" |
| 6 | 188406 | 1 | ADJUSTER ASSEMBLY, slide, left (Includes item 7) |
| | 914805 | 2 | SCREW, mach., flat hd., 5/16"NC x 7/8" |
| 7 | 188428 | 2 | SPRING |
| 8 | 644754 | 1 | PLATE, seat mounting |
| | 914321 | 8 | NUT, jam, 5/16"NC |
| | 901165 | 4 | WASHER, plain, U.S. std., 5/16" |
| 9 | 188410 | 1 | SHAFT, seat mounting plate |
| 10 | 188411 | 1 | PIN, latch |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| 11 | 188412 | 1 | ROLLPIN, mounting plate shaft |
| 12 | 638429 | 1 | SPRING |
| 13 | 188414 | 1 | COLUMN, seat mounting |
| 14 | 628005 | 1 | SPRING, compression |
| 15 | 644750 | 1 | SUPPORT ASSEMBLY, column (Includes items 16 thru 19) |
| 16 | 644830 | 1 | LEVER |
| | 911452 | 1 | RIVET, button hd., 1/4" x 1-5/8" |
| 17 | 188433 | 1 | PIN, index |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| 18 | 188434 | 1 | SPRING |
| 19 | 188436 | 1 | WASHER |
| 20 | 188424 | 4 | SHAFT |
| 21 | 188423 | 8 | RING, retaining |
| 22 | 627498 | 1 | LOCKSCREW |
| 23 | 188426 | 1 | PIN, shock absorber, upper |
| 24 | 638351 | 4 | RING, retaining, shock absorber pin |
| 25 | 188420 | 1 | LEVER ASSEMBLY, upper (Includes item 26) |
| 26 | 188443 | 4 | BEARING, upper lever |
| 27 | 644845 | 2 | WASHER, shock absorber upper pin |
| 28 | 188415 | 1 | ABSORBER, shock |
| 29 | 188416 | 1 | LEVER ASSEMBLY, co-axial spring (Serviced only as a unit) |
| 30 | 188418 | 1 | PIN, adjusting yoke |

(Continued)




BATTERY BOX (Model HD21G)

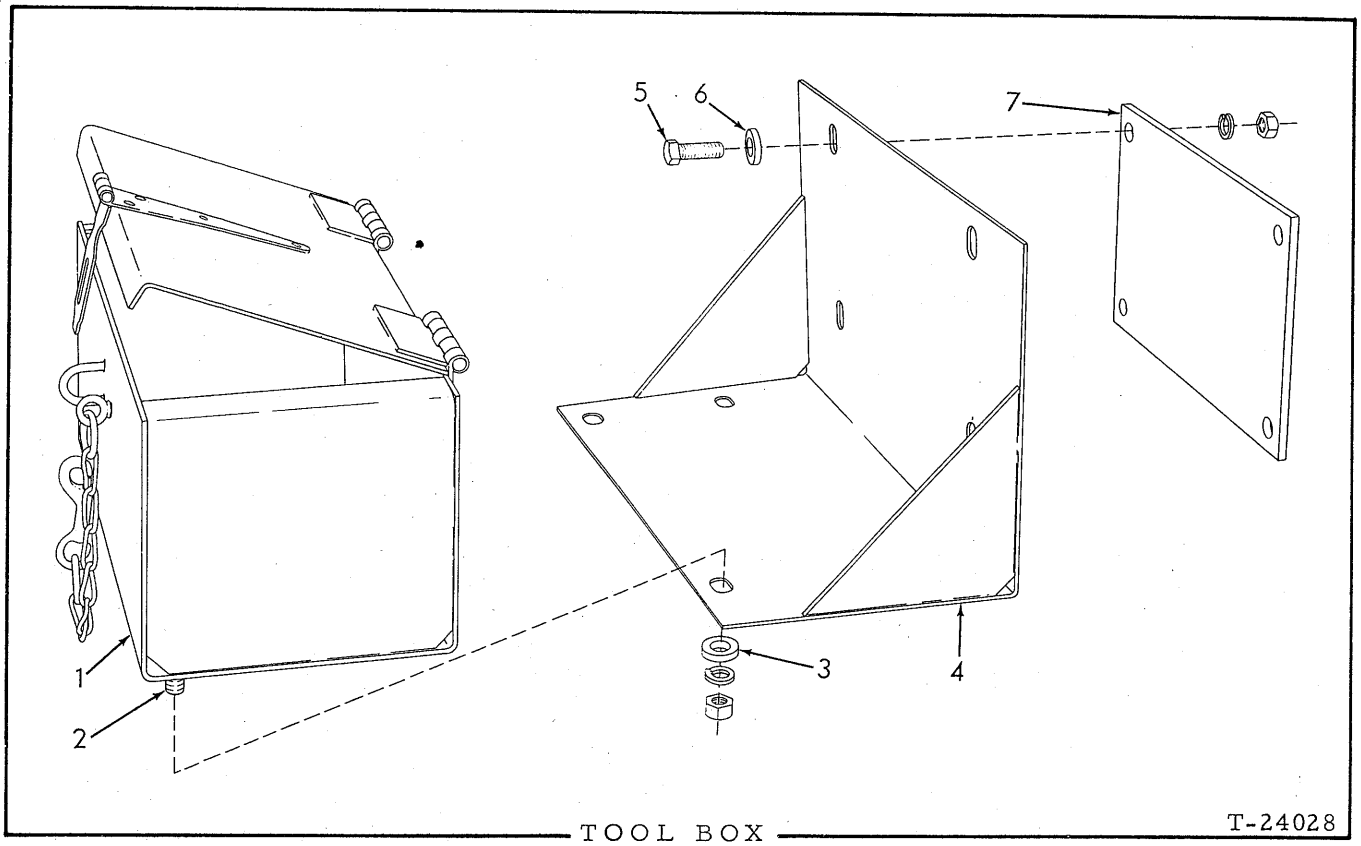
## SEAT PARTS (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 31 | 188419 | 2 | RING, retaining, adjusting yoke pin |
| 32 | 188421 | 1 | YOKE, adjusting |
| 33 | 188425 | 1 | PIN, shock absorber, lower |
| 34 | 644753 | 1 | HOUSING, seat base |
| 35 | 627495 | 1 | CRANK, adjusting |
| | 910274 | 1 | PIN, groove, 1/8" x 3/4" |

## BATTERY BOX

USAGE: Model HD21G

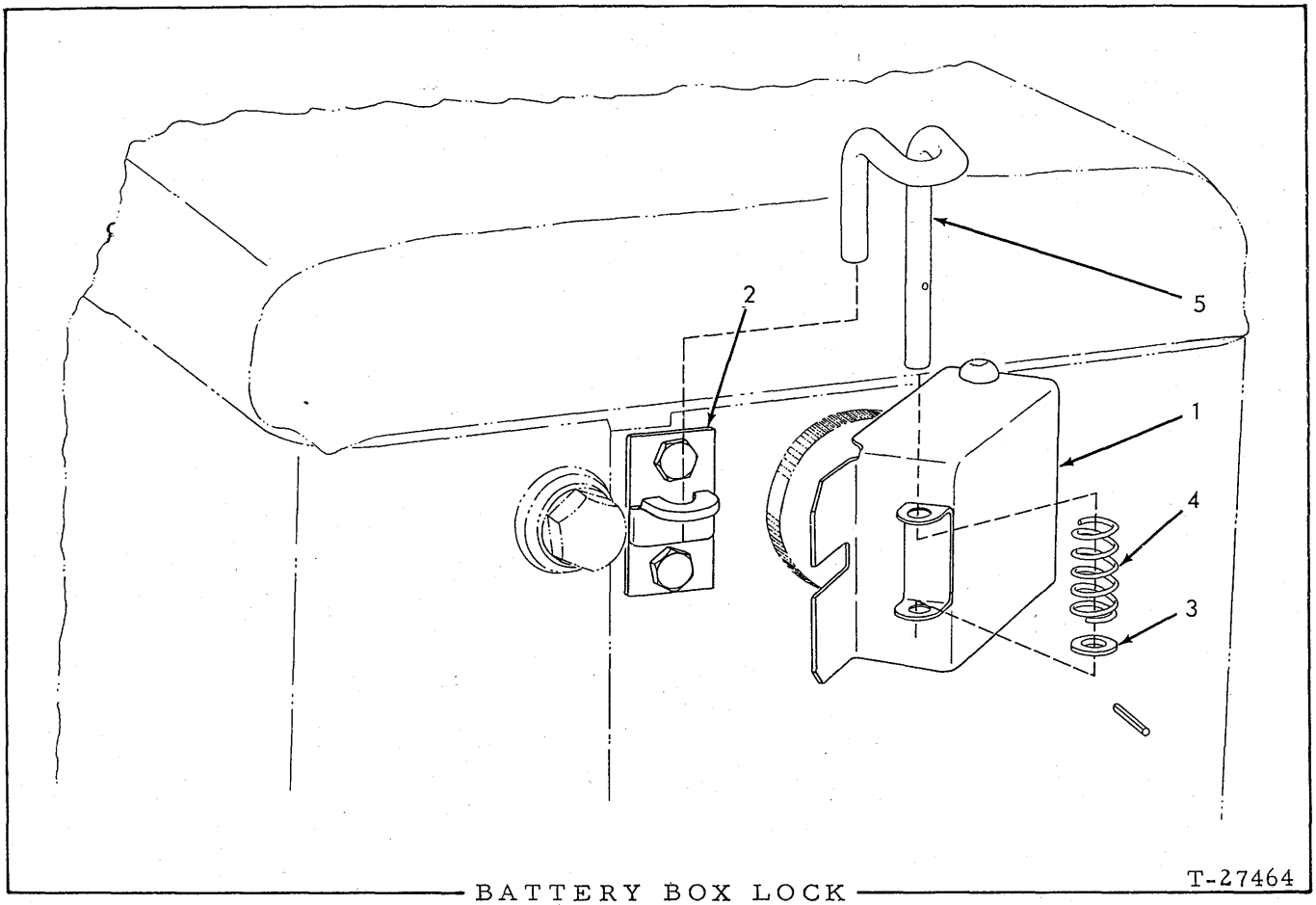
| | | | |
|---|---|---|---|
| 1 | 089589 | 1 | BOX, battery |
| 2 | 080207 | 1 | COVER, side |
| 3 | 070469 | 6 | CAPSCREW, 1/2"NF x 1-1/4" |
| 4 | 614478 | 2 | CAPSCREW, 1/2"NF x 1-3/8" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 5 | 064531 | 8 | WASHER, plain |
| 6 | 089336 | 1 | COVER, top |
| 7 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 900818 | 2 | WASHER, plain, U.S. std., 1/2" |
| 8 | 090893 | 1 | PLATE, tread |
| 9 | 050510 | 1 | CAPSCREW, tread plate retaining (1/2"NF x 1-1/2")(Used prior to tractor #11001) |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| | 091976 | 1 | KNOB, tread plate retaining (Effective with tractor #11001) |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 900802 | 1 | PIN, cotter, 3/32" x 1" |
| 10 | 050551 | 1 | BLOCK, tapped, plate retaining capscrew (1/2"NF)(Used prior to tractor #11001) |
| | 624488 | 1 | BLOCK, tapped, plate retaining capscrew (1/2"NC)(Effective with tractor #11001) |
| 11 | 083871 | 1 | BRACE, battery box |
| 12 | 035018 | 3 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 911043 | 3 | NUT, 1/2"NF |
| 13 | ------ | - | TRANSFER (See PAINTING AND MARKING) |




TOOL BOX

* Standard equipment on Model HD21G.
** Special equipment on Model HD21A. Used with BUCKET SEAT only. See SEAT AND BATTERY BOX for Tool Box used on standard units.

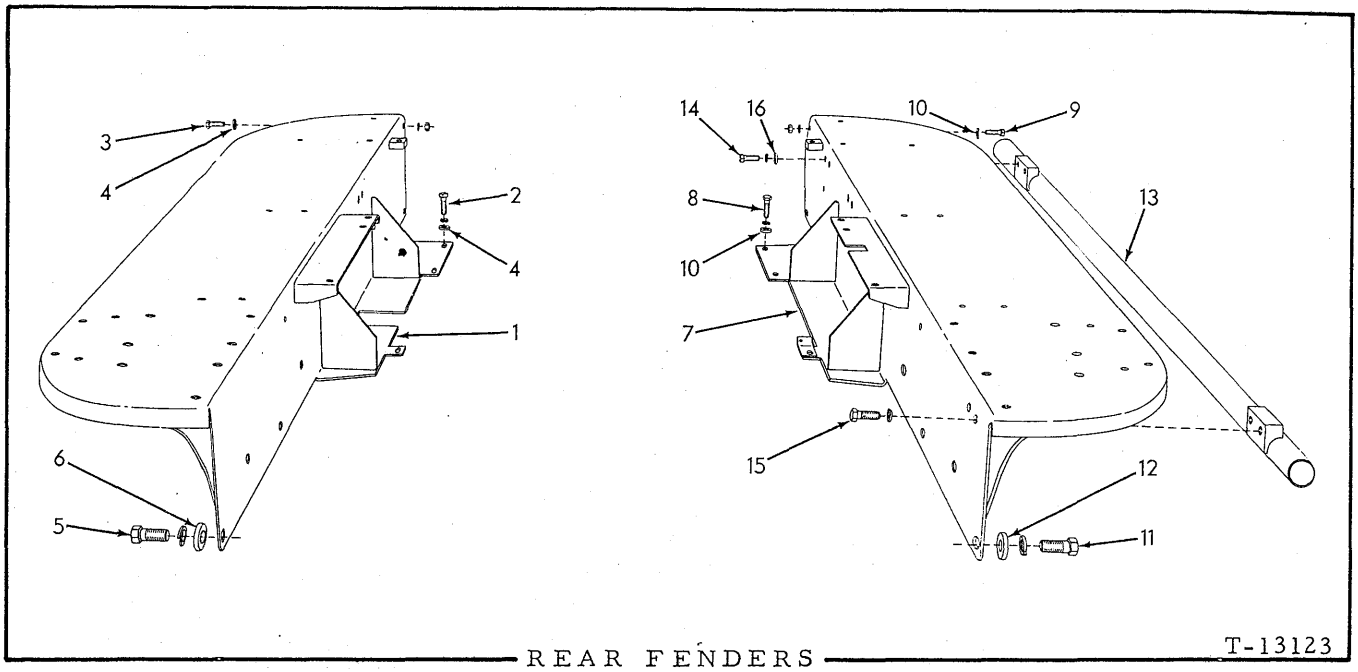
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 089659 | 1 | 1 | BOX, tool |
| 2 | 070469 | 4 | - | CAPSCREW, 1/2"NF x 1-1/4" |
| 2 | 035018 | - | 4 | CAPSCREW, 1/2"NF x 1-1/2" |
| 3 | 064531 | 4 | 8 | WASHER, plain |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | - | 4 | NUT, 1/2"NF |
| 4 | 099319 | - | 1 | BRACKET, box supporting |
| 5 | 035018 | - | 4 | CAPSCREW, 1/2"NF x 1-1/2" |
| 6 | 064531 | - | 4 | WASHER, plain |
| | 904208 | - | 4 | LOCKWASHER, 1/2" |
| | 911043 | - | 4 | NUT, 1/2"NF |
| 7 | 099310 | - | 1 | PLATE, backing, battery box |




BATTERY BOX LOCK

USAGE : Special equipment. Padlock is required to complete the installation.

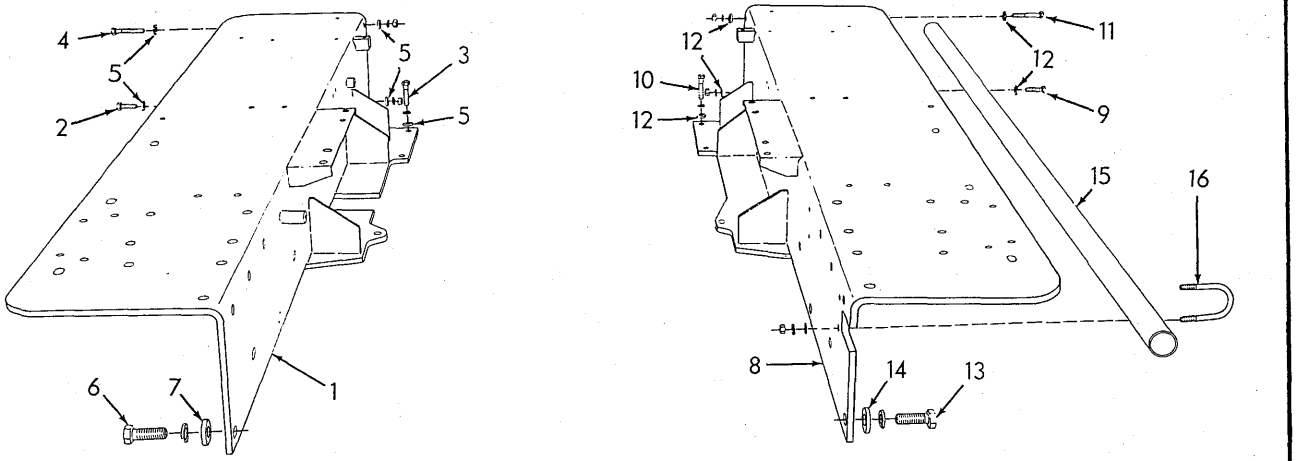
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 620474 | 1 | COVER, retaining knob |
| | 914330 | 2 | CAPSCREW, 1/4"NF x 5/8" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| | 911040 | 2 | NUT, 1/4"NF |
| 2 | 620472 | 1 | PLATE, latching, retaining knob cover |
| | 914330 | 2 | CAPSCREW, 1/4"NF x 5/8" |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| | 911040 | 2 | NUT, 1/4"NF |
| 3 | 607414 | 1 | WASHER, latching spring |
| 4 | 035916 | 1 | SPRING, latching rod |
| 5 | 621201 | 1 | ROD, latching |
| | 916146 | 1 | PIN, roll, 3/32" x 1/2" |




REAR FENDERS T-13123

USAGE: Standard on Model HD21A tractors prior to serial No. 11303. Also see page 511 for heavy fenders used with Seat Guard.

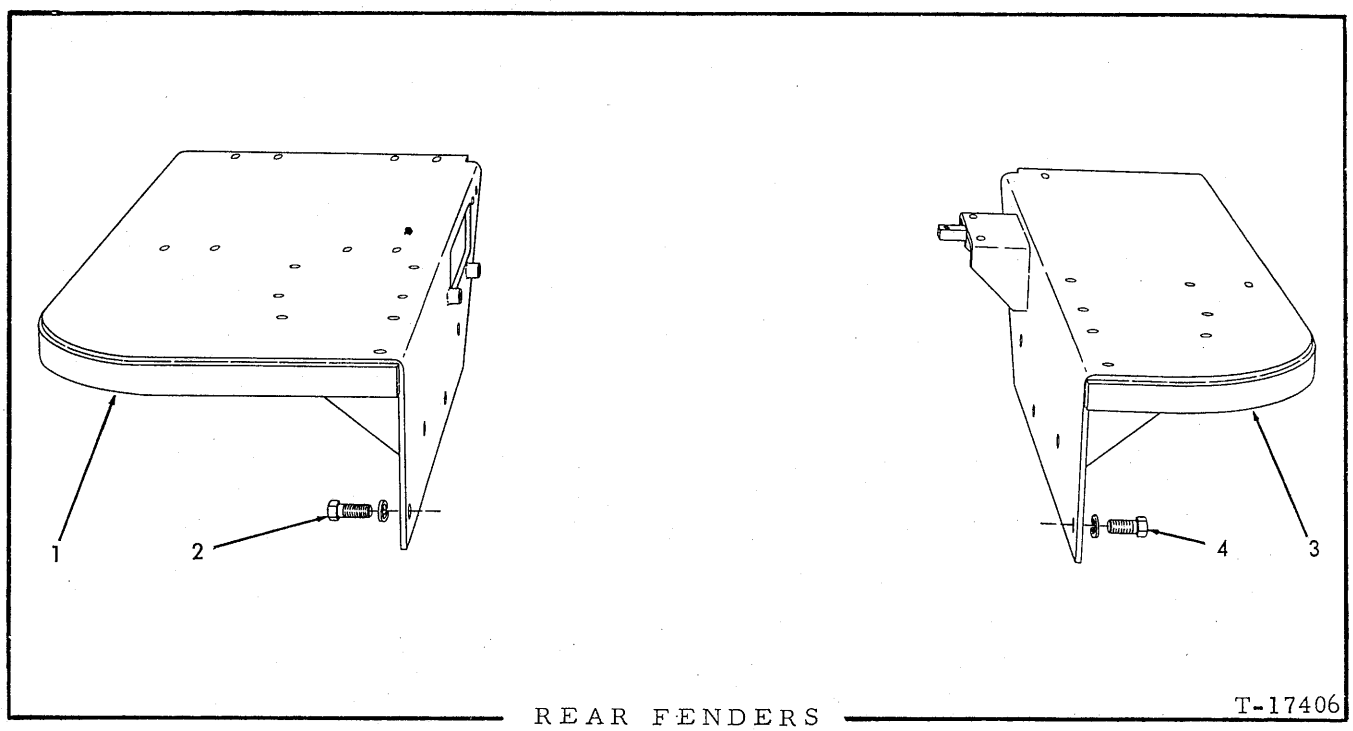
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | FENDER, left side (Order 1 FENDER 095489, 1 CAPSCREW 035073, 1 CAPSCREW 042430, 1 WASHER 064531, 3 CAPSCREWS 035068, 4 NUTS 911044, 6 CAPSCREWS 035018, 6 NUTS 911043 and 7 CAPSCREWS 035229) |
| 2 | 035067 | 3 | CAPSCREW, 1/2"NF x 2" |
| 3 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 4 | 064531 | 5 | WASHER, plain |
| 5 | 072595 | 4 | CAPSCREW, 3/4"NF x 1-3/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 6 | 061689 | 4 | WASHER, plain |
| 7 | ------ | 1 | FENDER, right side (Order 1 FENDER 095490, 1 CAPSCREW 035073, 1 CAPSCREW 042430, 1 WASHER 064531, 3 CAPSCREWS 035068, 4 NUTS 911044, 6 CAPSCREWS 035018, 6 NUTS 911043 and 7 CAPSCREWS 035229. For tractors equipped with rear-mounted C. C. U. also order 1 PIPE 084454, 4 U-BOLTS 641474, 8 WASHERS 911115, 8 LOCKWASHERS 904206 and 8 NUTS 911041) |
| 8 | 035067 | 3 | CAPSCREW, 1/2"NF x 2" |
| 9 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 10 | 064531 | 5 | WASHER, plain |
| 11 | 072595 | 4 | CAPSCREW, 3/4"NF x 1-3/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 12 | 061689 | 4 | WASHER, plain |
| 13 | 093269 | 1 | PIPE, cable conducting (For tractors equipped with cable dozers using rear-mounted control unit)(Effective with tractor #9258) |
| 14 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| 15 | 070469 | 2 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 16 | 064531 | 2 | WASHER, plain |




REAR FENDERS

USAGE: Model HD21A tractors effective with serial No. 11303. Also see pages 511 and 512 for heavy fenders used with Seat Guard.

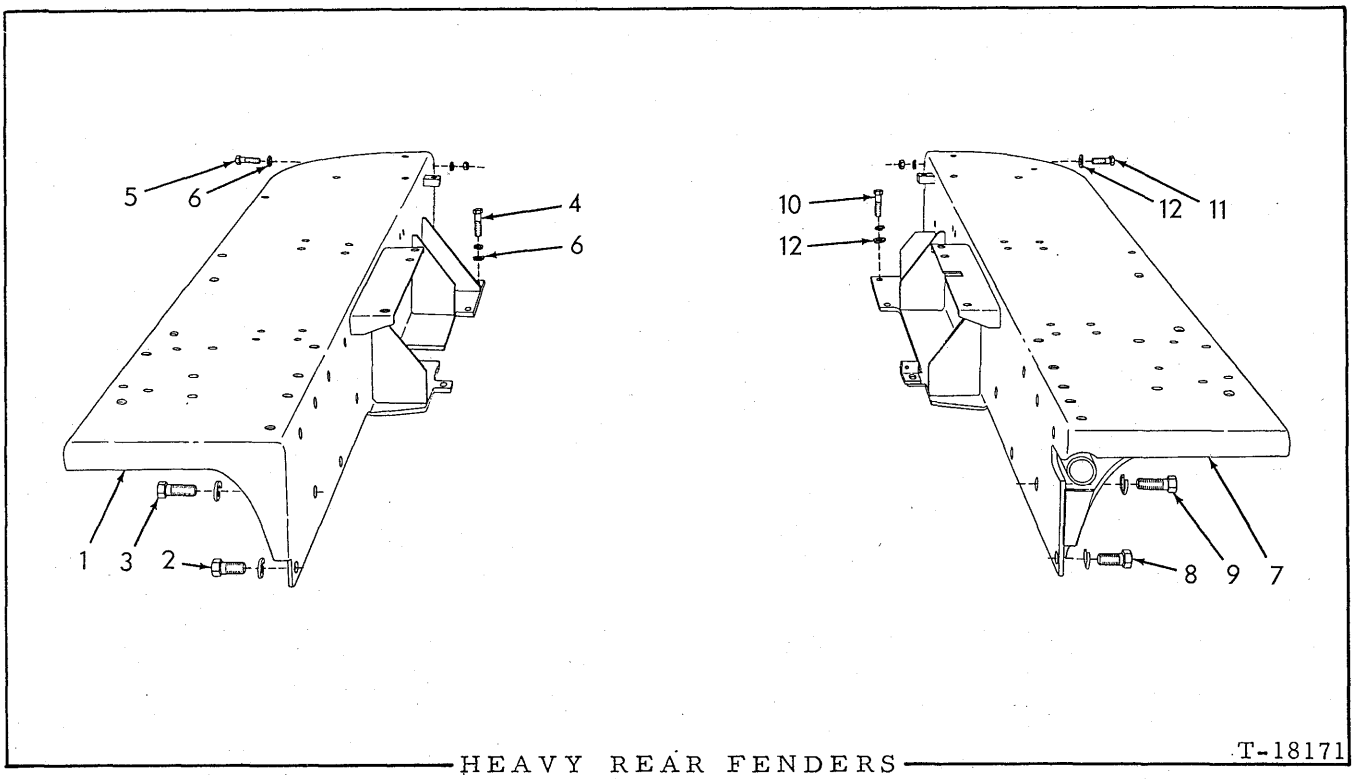
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 095489 | 1 | FENDER, left side (Used prior to tractor #12001, excluding #11808 and #11809) |
| | 622989 | 1 | FENDER, left side (Effective with tractor #12001, including #11808 and #11809) |
| 2 | 035067 | 1 | CAPSCREW, 1/2"NF x 2" |
| 3 | 035068 | 3 | CAPSCREW, 1/2"NF x 2-1/4" |
| 4 | 042430 | 1 | CAPSCREW, 1/2"NF x 3-1/4" |
| 5 | 064531 | 7 | WASHER, plain |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 6 | 012742 | 4 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 7 | 061689 | 4 | WASHER, plain |
| 8 | 095490 | 1 | FENDER, right side (Used prior to tractor #12001, excluding #11808 and #11809) |
| | 622990 | 1 | FENDER, right side (Effective with tractor #12001, including #11808 and #11809) |
| 9 | 035067 | 1 | CAPSCREW, 1/2"NF x 2" |
| 10 | 035068 | 3 | CAPSCREW, 1/2"NF x 2-1/4" |
| 11 | 042430 | 1 | CAPSCREW, 1/2"NF x 3-1/4" |
| 12 | 064531 | 7 | WASHER, plain |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 13 | 012742 | 4 | CAPSCREW, 3/4"NF x 2-1/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 14 | 061689 | 4 | WASHER, plain |
| 15 | 084454 | 1 | PIPE, cable conducting (For tractors equipped with cable dozer using rear-mounted control unit) |
| 16 | 641474 | 4 | U-BOLT, pipe attaching |
| | 911115 | 8 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| | 911041 | 8 | NUT, 3/8"NF |




REAR FENDERS T-17406

USAGE: Models HD21F,G

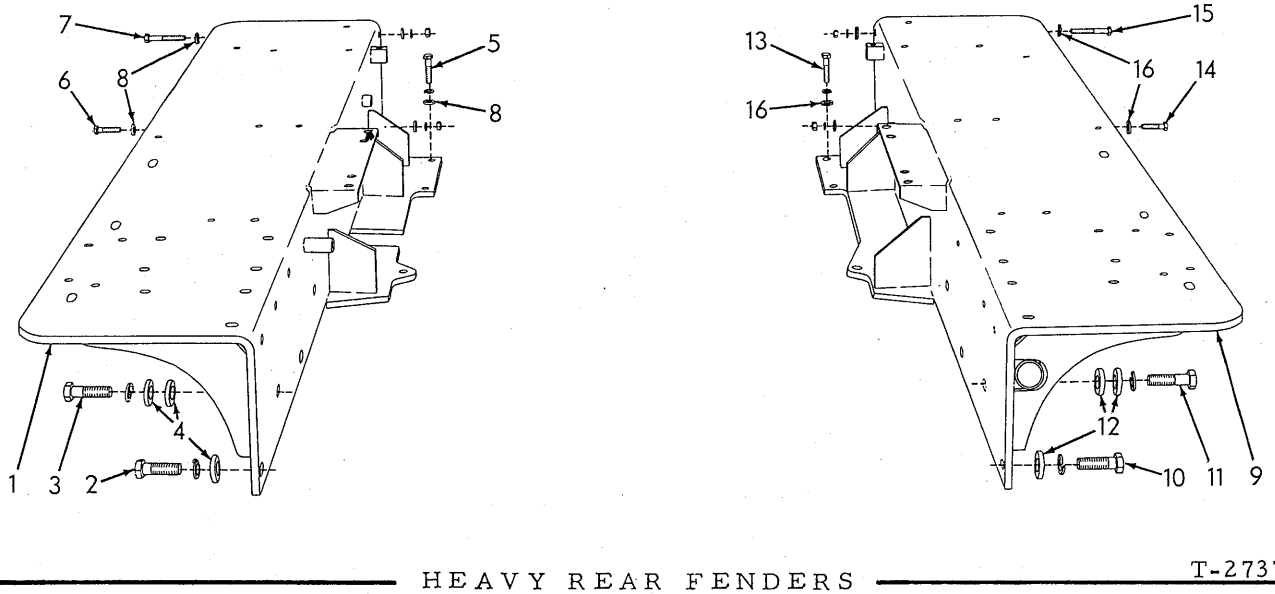
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 085752 | 1 | FENDER, left (Not used on Model HD21F tractors after #12014) |
| | 628841 | 1 | FENDER, left (Effective with tractor #12015 on Model HD21F) |
| 2 | 072595 | 4 | CAPSCREW, 3/4"NF x 1-3/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 3 | 085753 | 1 | FENDER, right (Not used on Model HD21F tractors after #12014) |
| | 628842 | 1 | FENDER, right (Effective with tractor #12015 on Model HD21F) |
| 4 | 072595 | 4 | CAPSCREW, 3/4"NF x 1-3/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |




HEAVY REAR FENDERS T-18171

USAGE: Special equipment for Model HD21A prior to January 1960. Used with Fuel Tank and Seat Guard in place of standard Fenders.

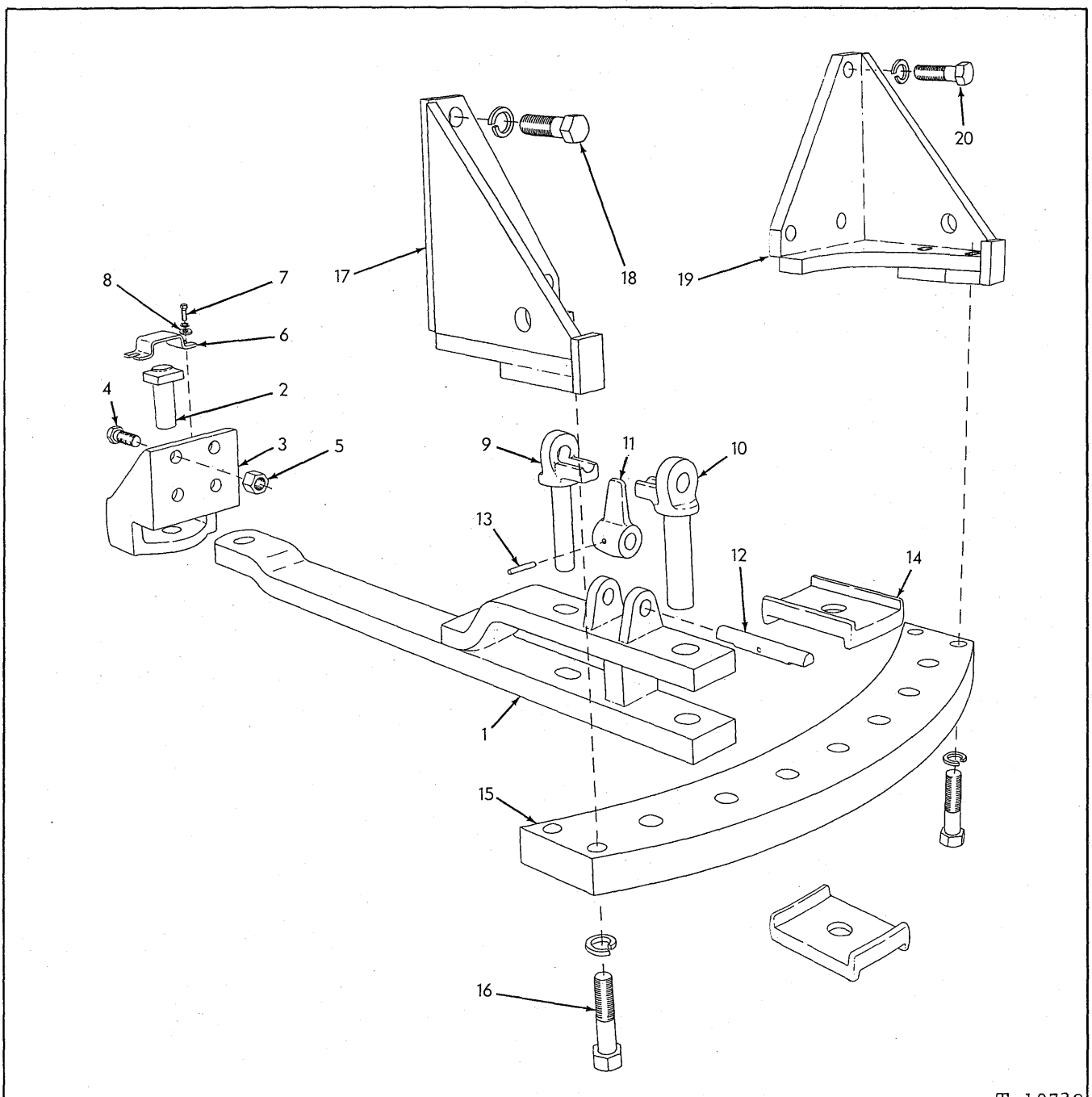
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | FENDER, left (Order 1 FENDER 095489, 1 CAPSCREW 035073, 1 CAPSCREW 070403, 3 CAPSCREW 035068, 4 CAPSCREW 012742, 6 CAPSCREW 035018, 6 NUT 911043, 7 CAPSCREW 035229 and 4 NUT 911044) |
| 2 | 072396 | 2 | CAPSCREW, 3/4"NF x 1-1/2" |
| 3 | 012453 | 2 | CAPSCREW, 3/4"NF x 2" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 4 | 035067 | 3 | CAPSCREW, 1/2"NF x 2" |
| 5 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| 6 | 064531 | 5 | WASHER, plain |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 7 | ------ | 1 | FENDER, right (Order 1 FENDER 095490, 1 CAPSCREW 035073, 1 CAPSCREW 070403, 3 CAPSCREW 035068, 4 CAPSCREW 012742, 6 CAPSCREW 035018, 6 NUT 911043, 7 CAPSCREW 035229 and 4 NUT 911044. For tractors equipped with rear-mounted C. C. U. also order 1 PIPE 084454, 4 U-BOLT 641474, 8 WASHER 911115, 8 LOCKWASHER 904206 and 8 NUT 911041) |
| 8 | 072396 | 2 | CAPSCREW, 3/4"NF x 1-1/2" |
| 9 | 012453 | 2 | CAPSCREW, 3/4"NF x 2" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 10 | 035067 | 3 | CAPSCREW, 1/2"NF x 2" |
| 11 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| 12 | 064531 | 5 | WASHER, plain |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |




HEAVY REAR FENDERS T-27373

USAGE: Special equipment for Model HD21A effective January 1960. Used with Fuel Tank and Seat Guard in place of standard Fenders.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 099415 | 1 | FENDER, left (Used prior to tractor #12001, excluding #11808 and #11809) |
| | 623353 | 1 | FENDER, left (Effective with tractor #12001, including #11808 and #11809) |
| 2 | 012742 | 2 | CAPSCREW, 3/4"NF x 2-1/4" |
| 3 | 013465 | 2 | CAPSCREW, 3/4"NF x 2-1/2" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 4 | 061689 | 6 | WASHER, plain |
| 5 | 035068 | 3 | CAPSCREW, 1/2"NF x 2-1/4" |
| 6 | 035067 | 1 | CAPSCREW, 1/2"NF x 2" |
| 7 | 042430 | 1 | CAPSCREW, 1/2"NF x 3-1/4" |
| 8 | 064531 | 7 | WASHER, plain |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 9 | 099416 | 1 | FENDER, right (Used prior to tractor #12001, excluding #11808 and #11809) |
| | 623354 | 1 | FENDER, right (Effective with tractor #12001, including #11808 and #11809) |
| 10 | 012742 | 2 | CAPSCREW, 3/4"NF x 2-1/4" |
| 11 | 013465 | 2 | CAPSCREW, 3/4"NF x 2-1/2" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| 12 | 061689 | 6 | WASHER, plain |
| 13 | 035068 | 3 | CAPSCREW, 1/2"NF x 2-1/4" |
| 14 | 035067 | 1 | CAPSCREW, 1/2"NF x 2" |
| 15 | 042430 | 1 | CAPSCREW, 1/2"NF x 3-1/4" |
| 16 | 064531 | 7 | WASHER, plain |
| | 904208 | 5 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |




DRAWBAR

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 052027 | 1 | DRAWBAR |
| 2 | 056995 | 1 | PIN, hinge |
| 3 | 052187 | 1 | BRACKET, hinge pin |
| 4 | 052361 | 4 | CAPSCREW, 1-1/4"NF x 4" |
| 5 | 028847 | 4 | NUT, high, 1-1/4"NF |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 6 | 052155 | 1 | PLATE, hinge pin retaining |
| 7 | 035018 | 2 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 8 | 064531 | 2 | WASHER, plain |
| 9 | 052366 | 1 | PIN, drawbar locking |
| 10 | 052367 | 1 | PIN, drawbar coupling |
| 11 | 052069 | 1 | ARM, locking, drawbar pins |
| 12 | 052060 | 1 | SHAFT, drawbar pin locking arm (If for tractors prior to #11073 also order PIN 052159) |
| 13 | 916190 | 1 | PIN, roll (3/8" x 2-3/4")(Used prior to tractor #11073) |
| | 052159 | 1 | PIN, locking arm shaft (Effective with tractor #11073) |
| 14 | 078951 | 2 | SHOE, wear |
| 15 | 078741 | 1 | PLATE, supporting |
| 16 | 047138 | 4 | CAPSCREW, 1-1/4"NF x 5" |
| | 904210 | 4 | LOCKWASHER, 1-1/4" |
| 17 | 098145 | 1 | BRACKET, supporting plate, left |
| 18 | 052361 | 3 | CAPSCREW, 1-1/4"NF x 4" |
| | 904210 | 3 | LOCKWASHER, 1-1/4" |
| 19 | 098146 | 1 | BRACKET, supporting plate, right |
| 20 | 052361 | 3 | CAPSCREW, 1-1/4"NF x 4" |
| | 904210 | 3 | LOCKWASHER, 1-1/4" |

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Approximately 6 gallons paint required for spraying |
| 1 | 921094 | - | ENAMEL, persian orange, quart can |
| | 922983 | - | ENAMEL, "Allis-Chalmers", yellow, quart can |
| 2 | 921093 | - | ENAMEL, persian orange, gallon can |
| | 922984 | - | ENAMEL, "Allis-Chalmers" yellow, gallon can |
| 3 | 922985 | - | ENAMEL, "Allis-Chalmers" yellow, 5-gallon can |
| 4 | 921092 | - | ENAMEL, persian orange, 12 oz. pressurized spray-type can |
| | 922982 | - | ENAMEL, "Allis-Chalmers" yellow, 12 oz. pressurized spray-type can |
| | | | NOTE: All plates and transfers listed below are English language printings unless otherwise indicated. |
| 5 | 088592 | 1 | PLATE, tractor lubrication and service guide (6-1/2" x 10")(Used prior to tractor #9001) |
| | 620592 | 1 | PLATE, tractor lubrication and service guide (7" x 10")(Used on tractors #9001 thru #12000, excluding #11808 and #11809) |
| | 623391 | 1 | PLATE, tractor lubrication and service guide (7" x 10")(Effective with tractor #12001, including #11808 and #11809) |
| | 089032 | 1 | PLATE, tractor lubrication and service guide (French translation, 6-1/2" x 10")(Used prior to tractor #9001) |
| | 089033 | 1 | PLATE, tractor lubrication and service guide (Spanish translation, 6-1/2" x 10")(Used prior to tractor #9001) |
| | 621219 | 1 | PLATE, tractor lubrication and service guide (multi-language, 7" x 10")(Used on tractors #9001 thru #12000, excluding #11808 and #11809) |
| | 623562 | 1 | PLATE, tractor lubrication and service guide (multi-language, 7" x 10")(Effective with tractor #12001, including #11808 and #11809) |
| | 034076 | 4 | SCREW, thd.-cutting, cross-recessed-hd., #8 x 1/2" |

Attached to left battery box on HD21A, side boom on HD21F and shovel frame on HD21G. Was attached to dash on early units

| | | | |
|---|---|---|---|
| 6 | 620593 | 1 | PLATE, shovel lubrication and service guide (5" x 7")(Attached to shovel frame on Model HD21G) |
| | 621748 | 1 | PLATE, shovel lubrication and service guide (multi-language, 6-1/2" x 7")(Attached to shovel frame on Model HD21G) |
| | 034076 | 4 | SCREW, thd-cutting, cross-recessed-hd., #8 x 1/2" |
| 7 | 053417 | 1 | PLATE, gear shift diagram (3-1/2" x 2-1/2")(Attached to dash) |
| | 034076 | 4 | SCREW, thd-cutting, cross-recessed-hd., #8 x 1/2" |

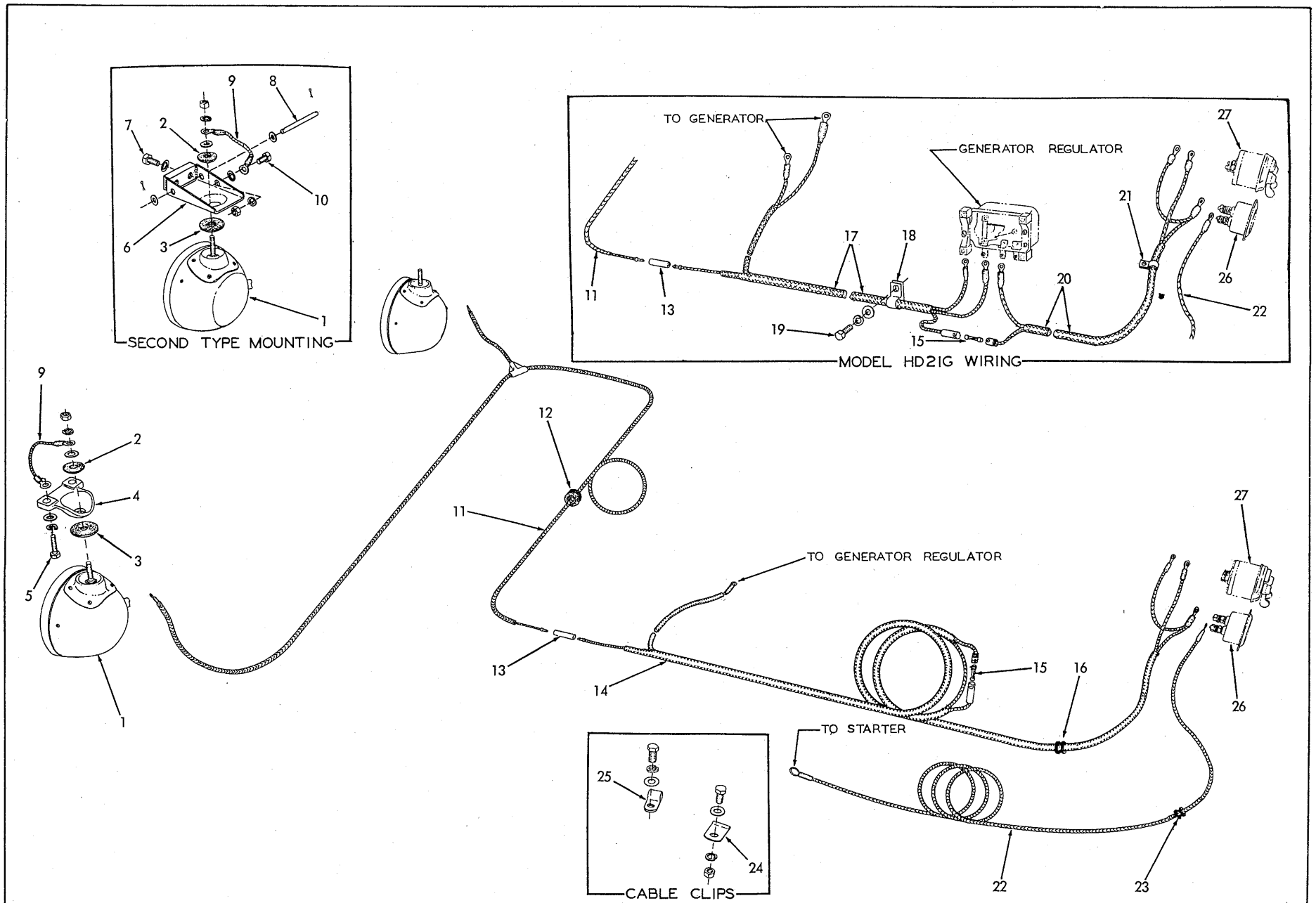
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| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 8. | 074142 | 1 | PLATE, identification, lubrication fittings (1-1/8" x 4")(Attached to dash)(Used prior to approx. tractor #9231) |
| | 034076 | 2 | SCREW, thread-cutting, cross-recessed-hd., #8 x 1/2" |
| | 094136 | 1 | PLATE, identification, lubrication fittings (3" x 4-3/8")(Attached to dash)(Effective with approx. tractor #9231) |
| 9 | 088721 | 1 | PLATE ASSEMBLY, instruction, injection pump lubrication (Includes item 10. Attached to injection pump) |
| 10 | 088709 | 1 | PLATE, instruction, injection pump lubrication (1-1/2" x 2-3/8") |
| | 908386 | 2 | SCREW, thread-cutting, #2 x 3/16" |
| | | | Used prior to engine #21-2364 |
| 11 | 095354 | 1 | PLATE, instruction, brake adjustment (6" x 6-1/2", pressure-sensitive type)(Applied to rear of fuel tank on tractors prior to approx. #11522) |
| | 099224 | 1 | TRANSFER, instruction, brake adjustment (6" x 6-1/2", pressure-sensitive type)(Applied to rear of fuel tank on tractors approx. #11522 thru approx. #11858) |
| | 621293 | 1 | TRANSFER, instruction, brake adjustment (6" x 6-1/2", pressure-sensitive type)(Applied to rear of fuel tank on Models HD21A, F effective approx. tractor #11859 thru #12000) |
| | 622554 | 1 | TRANSFER, instruction, brake adjustment (6" x 6-1/2", pressure-sensitive type)(Applied to rear of fuel tank on Model HD21G effective approx. tractor #11859 thru #12000) |
| 12 | 621357 | 1 | TRANSFER, lubrication certification (3-7/8" x 6-3/4", pressure-sensitive type)(Applied to dash) |
| 13 | 631293 | 1 | TRANSFER, instruction, engine operation (2-1/4" x 4-1/2", pressure-sensitive type)(Applied to dash) |
| 14 | 621341 | 1 | TRANSFER, instruction, engine clutch adjustment (2-3/4" x 4", pressure-sensitive type)(Applied to clutch inspection plate) |
| 15 | 629205 | 1 | TRANSFER, warning, power steering and brakes (1-3/4" x 3-1/2", pressure-sensitive type)(Applied to dash, effective with tractor #12001) |
| 16 | 632226 | 2 | TRANSFER, instruction, steering system filter (1-3/4" x 2-1/4", pressure-sensitive type)(Applied to Filter Assembly 631542 only) |
| 17 | 621337 | 1 | TRANSFER, instruction, 1st stage fuel filter (1-3/4" x 2-1/4", pressure-sensitive type)(Applied to filter) |
| 18 | 621345 | 1 | TRANSFER, instruction, 2nd stage fuel filter (1-3/4" x 2-1/4", pressure-sensitive type)(Applied to filter) |
| 19 | 621343 | 2 | TRANSFER, instruction, oil filter (2-5/16" x 3-1/4", pressure-sensitive type)(Applied to engine oil filter) |
| 20 | 621399 | 1 | TRANSFER, warning, special heavy-duty oil filter (Includes Portuguese translation, 2" x 10", pressure-sensitive type) (Applied to filter) |
| | 621400 | 1 | TRANSFER, warning, special heavy-duty oil filter (French and Spanish translations, 2" x 10", pressure-sensitive type) (Applied to filter) |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 21 | 621342 | 1 | TRANSFER, instruction, engine primer (1-3/4" x 6", pressure-sensitive type)(Applied to dash) | |
| 22 | 621338 | 1 | TRANSFER, instruction, air heater operation (2" x 6", pressure-sensitive type)(Applied to dash on tractors prior to #12399) | |
| | 633384 | 1 | TRANSFER, instruction, air heater operation (2" x 6", pressure-sensitive type)(Applied to dash, effective with tractor #12399) | |
| | 074579 | 1 | *TRANSFER, instruction, air heater operation (Spanish translation, 2" x 6")(Applied to dash) | |
| 23 | 040851 | 3 | TRANSFER, "ALLIS-CHALMERS" (2-1/2" x 19-1/4") (Applied to sides of seat and to rear of fuel tank) | Early units |
| | 068832 | 2 | TRANSFER, "ALLIS-CHALMERS" (3-3/4" x 30-1/4") (Applied to sides of hood) | |
| 24 | 634330 | 3 | TRANSFER, "ALLIS-CHALMERS" (1-3/4" x 39", pressure-sensitive type)(Applied to sides of hood and to rear of fuel tank) | Late units |
| | 634376 | 2 | TRANSFER, "ALLIS-CHALMERS" (1-1/8" x 20", pressure-sensitive type)(Applied to sides of seat) | |
| 25 | 623506 | 2 | TRANSFER, "HD21" (elliptical, pressure-sensitive type)(Applied to side of battery boxes on Models HD21A and F only) | |
| 26 | 634452 | 3 | TRANSFER, "HD21G" (elliptical, pressure-sensitive type)(Applied to side of battery box, to oil reservoir and to rear of fuel tank on Model HD21G only) | |
| 27 | ------ | 2 | TRANSFER, "TORQUE CONVERTER" design (Applied to side of battery boxes; also to oil reservoir on Model HD21G)(Discontinued) | |
| 28 | 622016 | 1 | TRANSFER KIT (Consists of one each TRANSFERS 621337, 621342, 621345, 634330; 2 each TRANSFERS 621343, 634376; 3 TRANSFERS 623506) | |
| 29 | 067937 | - | CEMENT, transfer application, 1/2 pint jar (Makes solution by adding 4 parts water. Required to apply all transfers indicated by asterisk (*) above) | |

*Indicates permanent-type transfer. See item 29



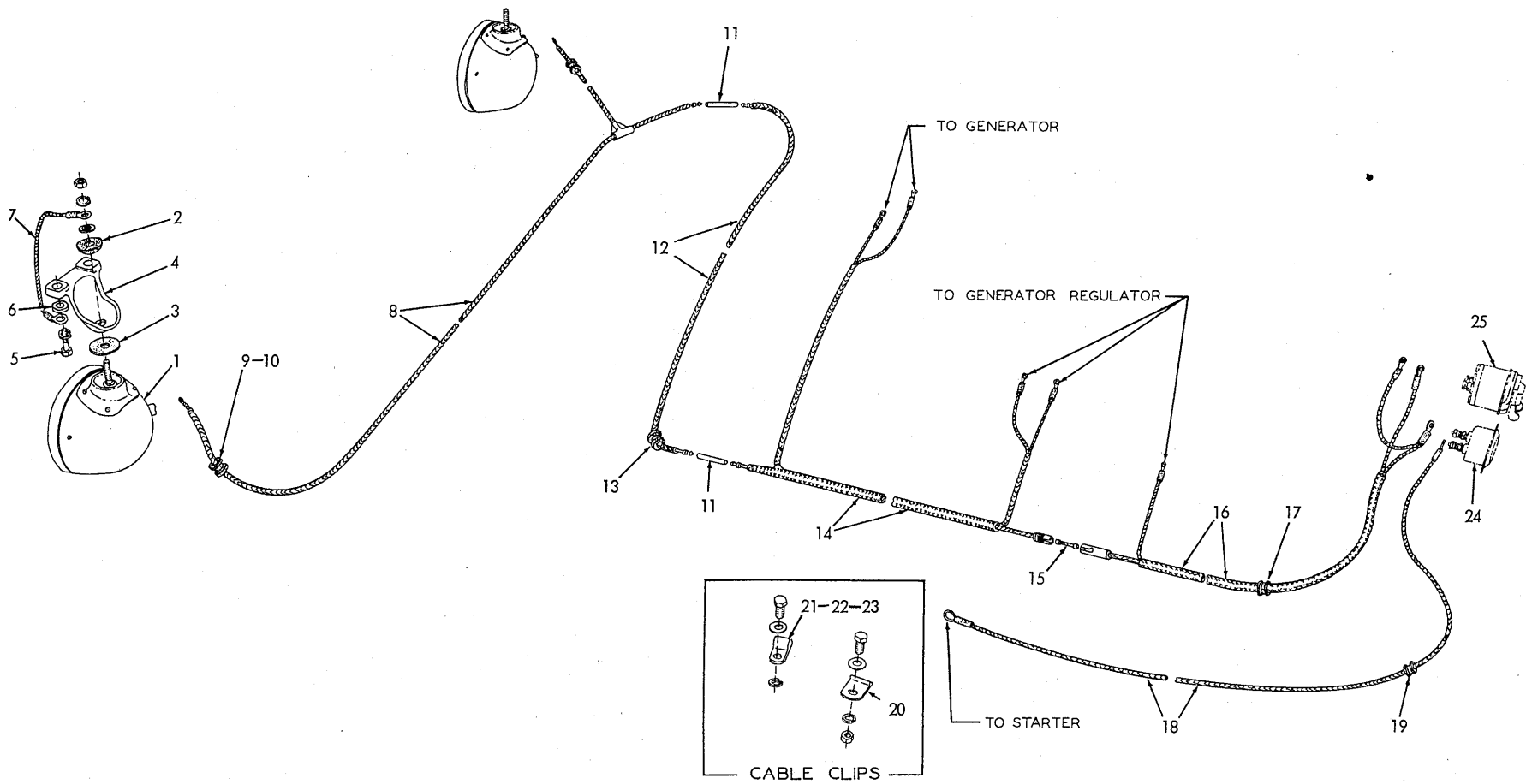

LIGHTS AND WIRING (First type)

USAGE: Tractors prior to serial No. 9001.

* Models HD21A, F
** Model HD21G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 074388 | 2 | 2 | LIGHT ASSEMBLY, head (See page 523 for parts)(Order 1 each LIGHT ASSEMBLY 638283, WASHER 075535, WASHER 900818, LOCKWASHER 904208 and NUT 911043) |
| | 900817 | 2 | 2 | WASHER, plain, U.S. std., 3/8" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911026 | 2 | 2 | NUT, 1/2"NC |
| 2 | 075854 | 2 | 2 | WASHER, head light mounting, upper |
| 3 | 075853 | 2 | 2 | WASHER, head light mounting, lower |
| 4 | 075429 | 2 | 2 | BRACKET, head light mounting (Used prior to tractor #8360) |
| 5 | 012992 | 4 | 4 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| | 900817 | 4 | 4 | WASHER, plain, U.S. std., 3/8" |
| | | | | NOTE: Items 6 thru 8 and item 10 comprise the SWING-OUT TYPE HEADLIGHT MOUNTING effective with tractor #8360. |
| 6 | 089152 | 2 | 2 | BRACKET, headlight mounting |
| 7 | 036034 | 4 | 4 | CAPSCREW, 3/8"NF x 1" |
| | 906960 | 4 | 4 | LOCKWASHER, internal teeth, 3/8" |
| 8 | 089147 | 2 | 2 | PIN, hinge, mounting bracket |
| | 910335 | 4 | 4 | WASHER, plain, SAE std., 5/16" |
| | 904001 | 4 | 4 | PIN, cotter, 3/32" x 1/2" |
| 9 | 077279 | 2 | 2 | CABLE, head light ground |
| 10 | 035979 | 2 | 2 | CAPSCREW, 3/8"NF x 5/8" |
| | 906960 | 2 | 2 | LOCKWASHER, internal teeth, 3/8" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | NUT, 3/8"NF |
| 11 | 082540 | 1 | 1 | CABLE, head lights |
| 12 | 064589 | 1 | - | GROMMET, head light cable (5/8" hole) |
| 13 | 048142 | 1 | 1 | CONNECTOR, head light cable |
| 14 | 083709 | 1 | - | HARNESS, wiring |
| 15 | 208960 | 1 | 1 | FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes |
| 16 | 044810 | 1 | - | GROMMET, wiring harness (3/8" hole) |
| 17 | 083493 | - | 1 | HARNESS, wiring, front section |
| 18 | 034632 | - | 3 | CLIP, wiring harness (5/16" diam., 13/32" bolt-hole) |
| 19 | 036032 | - | 3 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | - | 3 | LOCKWASHER, 3/8" |
| | 911115 | - | 3 | WASHER, plain, SAE std., 3/8" |
| 20 | 083492 | - | 1 | HARNESS, wiring, rear section |
| 21 | 041262 | - | 2 | CLIP, wiring harness (3/8" diam., 13/32" bolt-hole) |

(Continued)




T-17496

LIGHTS AND WIRING (Second type)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 22 | 078739 | 1 | 1 | CABLE, starter to ammeter |
| 23 | 023176 | 1 | - | GROMMET, starter to ammeter cable |
| 24 | 235794 | 12 | 12 | CLIP, head light and ammeter cables (1/4" diam., 13/32" bolt-hole) |
| | 036032 | 4 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 012992 | 1 | - | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 5 | 1 | LOCKWASHER, 3/8" |
| | 911115 | 3 | - | WASHER, plain, SAE std., 3/8" |
| | 911041 | 5 | - | NUT, 3/8"NF |
| 25 | 040796 | 6 | - | CLIP, wiring harness (3/8" diam., 13/32" bolt-hole) |
| | 036032 | 5 | - | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 5 | - | LOCKWASHER, 3/8" |
| | 911115 | 5 | - | WASHER, plain, SAE std., 3/8" |
| 26 | ------ | 1 | 1 | AMMETER (See INSTRUMENTS) |
| 27 | ------ | 1 | 1 | SWITCH, lights (See INSTRUMENTS) |

## LIGHTS AND WIRING

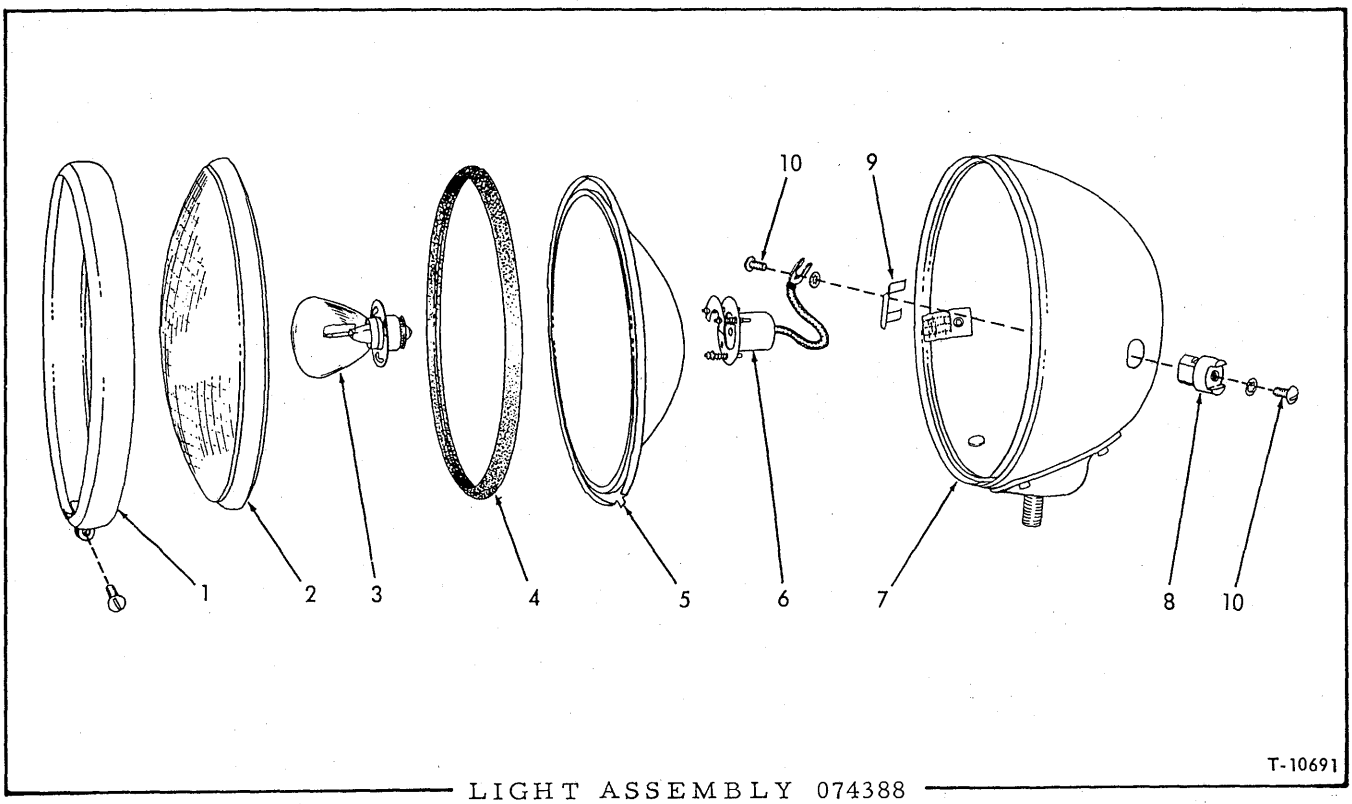
USAGE: Tractors serial No. 9001 thru No. 11000

* Models HD21A, F
** Model HD21G

| | | | | |
|---|---|---|---|---|
| 1 | 074388 | 2 | 2 | LIGHT ASSEMBLY, head (See page 523 for parts)(Order 1 each LIGHT ASSEMBLY 638283, WASHER 075535, WASHER 900818, LOCKWASHER 904208 and NUT 911043) |
| | 900817 | 2 | 2 | WASHER, plain, U.S. std., 3/8" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911026 | 2 | 2 | NUT, 3/8"NC |
| 2 | 075854 | 2 | 2 | WASHER, head light mounting, upper |
| 3 | 075853 | 2 | 2 | WASHER, head light mounting, lower |
| 4 | 093195 | 2 | 2 | BRACKET, head light mounting |
| 5 | 035336 | 4 | 4 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| 6 | 044973 | 4 | 4 | WASHER, plain |
| 7 | 093176 | 2 | 2 | CABLE, head light ground |
| 8 | 093196 | 1 | 1 | CABLE, head light, upper section |
| 9 | 083683 | 2 | - | GROMMET, head light cable (1/2" hole) |
| 10 | 044810 | 2 | - | GROMMET, head light cable (3/8" hole) |
| | | | | NOTE: Items 9 and 10 are required only when head lights are mounted on top of the radiator guard. |
| 11 | 048142 | 2 | 2 | CONNECTOR, head light cables |
| 12 | 093194 | 1 | 1 | CABLE, head light, lower section |
| 13 | 064589 | 1 | - | GROMMET, head light cable (5/8" hole) |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 14 | 092390 | 1 | 1 | HARNESS, wiring, front section |
| 15 | 208960 | 1 | 1 | FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes |
| 16 | 092389 | 1 | - | HARNESS, wiring, rear section |
| | 083492 | - | 1 | HARNESS, wiring, rear section |
| 17 | 044810 | 1 | - | GROMMET, wiring harness |
| 18 | 078739 | 1 | 1 | CABLE, starter to ammeter |
| 19 | 023176 | 1 | - | GROMMET, starter to ammeter cable |
| 20 | 235794 | 15 | 12 | CLIP, head light and ammeter cables (1/4" diam., 13/32" bolt-hole) (1 less used on Model HD21F) |
| | 036032 | 4 | 1 | CAPSCREW, 3/8"NF x 3/4" (2 less on HD21F) |
| | 012992 | 1 | - | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 5 | 1 | LOCKWASHER, 3/8" (2 less on HD21F) |
| | 911115 | 3 | - | WASHER, plain, SAE std., 3/8" |
| | 911041 | 5 | - | NUT, 3/8"NF (2 less on HD21F) |
| 21 | 034632 | 4 | 2 | CLIP, wiring harness (5/16" diam., 13/32" bolt-hole) |
| | 036032 | 2 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 2 | 1 | LOCKWASHER, 3/8" |
| | 911115 | 2 | 1 | WASHER, plain, SAE std,, 3/8" |
| | 911041 | 1 | - | NUT, 3/8"NF (Model HD21F only) |
| | | | | 2 additional used on tractors prior to #9052 |
| 22 | 048164 | 1 | 1 | CLIP, wiring harness (5/16" diam., 17/32" bolt-hole)(Effective with tractor #9052) |
| 23 | 041262 | - | 2 | CLIP, wiring harness (3/8" diam., 13/32" bolt-hole) |
| 24 | ------ | - | - | AMMETER (See INSTRUMENTS) |
| 25 | ------ | - | - | SWITCH, lights (See INSTRUMENTS) |

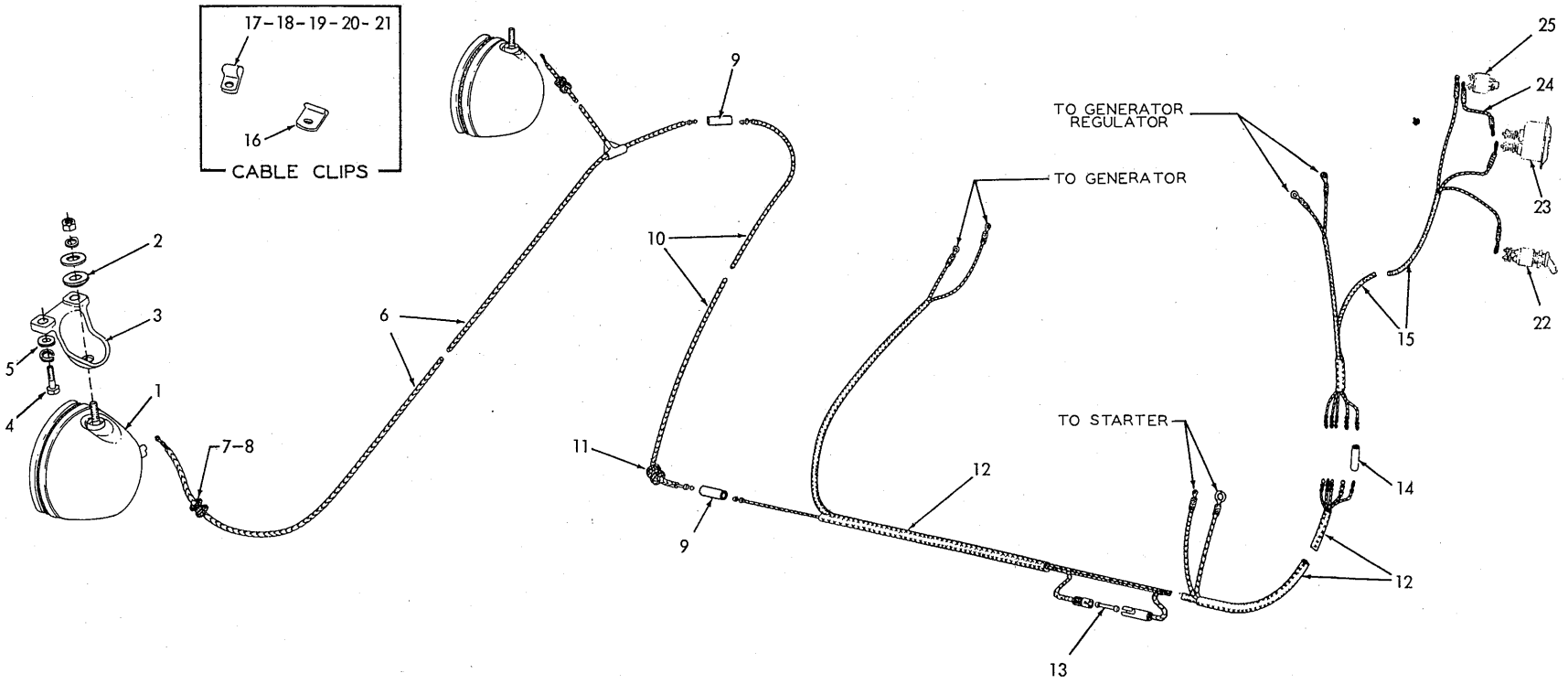



LIGHT ASSEMBLY 074388

USAGE: See pages 519, 521 and 556

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities indicated are for one (1) light only. |
| 1 | 058827 | 1 | MOLDING |
| | 915872 | 1 | SCREW, machine, brass, #8-32NC x 5/8" |
| 2 | ------ | 1 | LENS (glass) |
| 3 | 074387 | 1 | BULB (Single contact, 32 c.p., 24 volt) |
| 4 | 058828 | 1 | GASKET, lens |
| 5 | ------ | 1 | REFLECTOR ASSEMBLY (Includes item 4) |
| 6 | 058831 | 1 | WIRING ASSEMBLY (Includes socket) |
| 7 | ------ | 1 | BODY |
| 8 | 055589 | 1 | TERMINAL KIT (Includes items 9 and 10) |
| 9 | 048922 | 1 | SPRING, retaining, terminal bushing |
| 10 | 034076 | 2 | SCREW, terminal |
| | 912739 | 2 | LOCKWASHER, internal teeth, #8 |

NOTE: Items listed above without part number are no longer available. Replace entire unit with sealed-beam Light Assembly 638283.



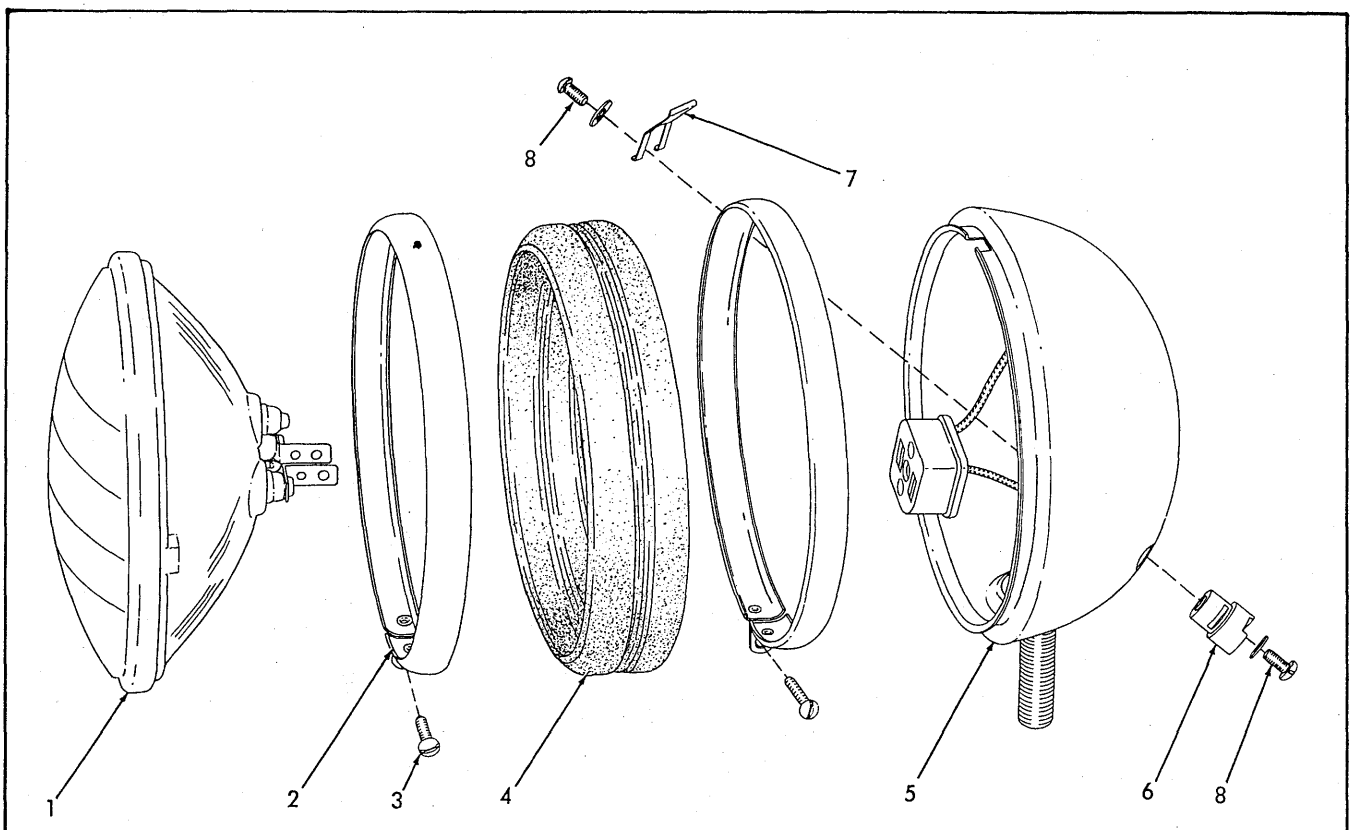

LIGHTS AND WIRING (Third type)

T-19681

# LIGHTS AND WIRING

USAGE: Tractors serial No. 11001 and up

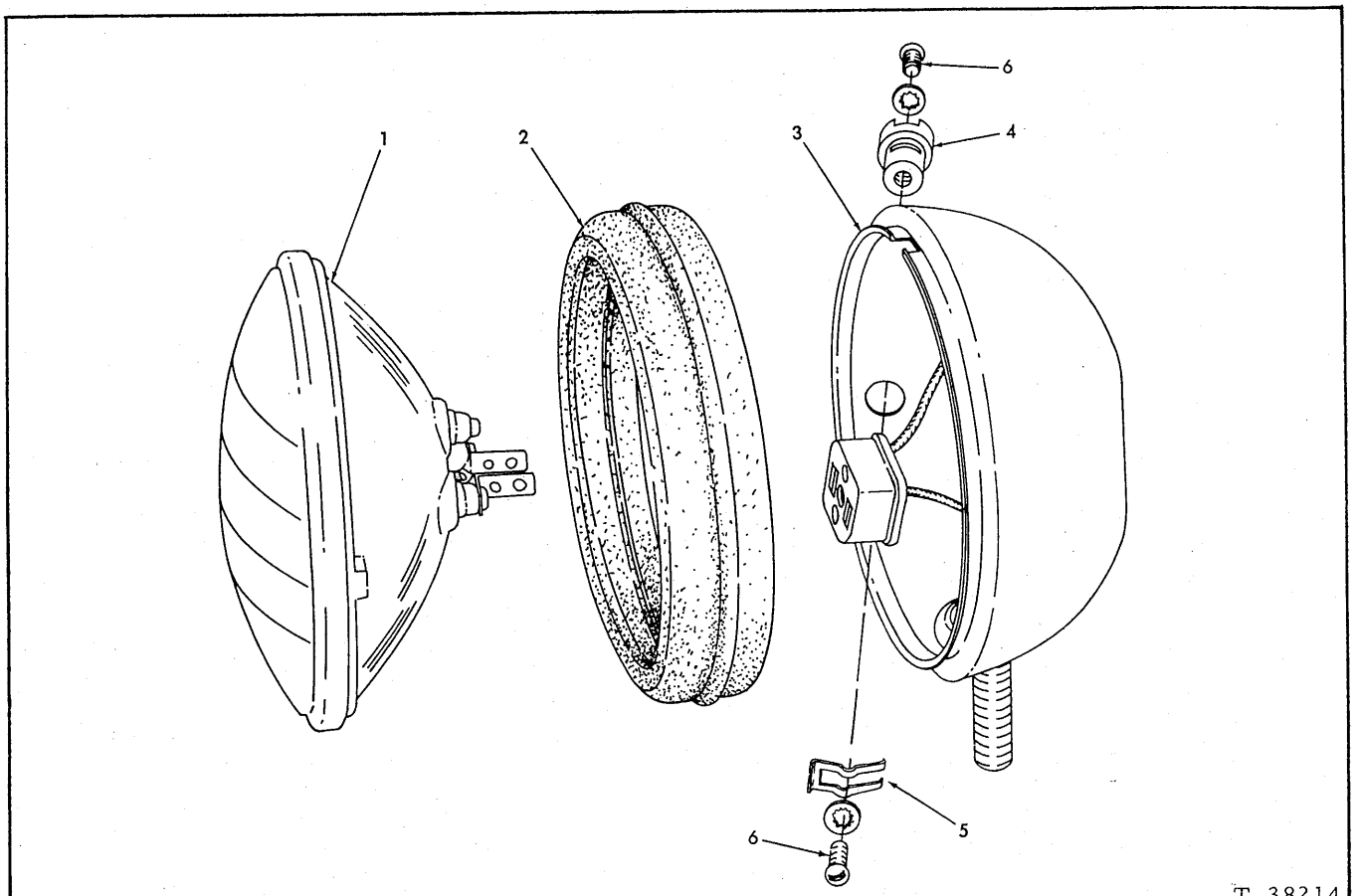
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 097030 | 2 | LIGHT ASSEMBLY, head (See page 526 for parts)(Original equipment. Order LIGHT ASSEMBLY 638283) |
| | 638283 | 2 | LIGHT ASSEMBLY, head (See page 527 for parts)(Service replacement) |
| | 900818 | 2 | WASHER, plain, U.S. std., 1/2" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |
| 2 | 075535 | 2 | WASHER, head light mounting |
| 3 | 093195 | 2 | BRACKET, head light mounting |
| 4 | 035336 | 4 | CAPSCREW, 3/8"NF x 1-3/4" (All tractors except Model HD21A #11108 thru #11583) |
| | 042265 | 4 | CAPSCREW, 3/8"NF x 3-1/4" } Model HD21A #11108 |
| | 094597 | 4 | SPACER } thru #11583 |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 5 | 044973 | 4 | WASHER, plain |
| 6 | 093196 | 1 | CABLE, head light, upper section |
| 7 | 083683 | 2 | GROMMET, head light cable (1/2" hole) |
| 8 | 044810 | 2 | GROMMET, head light cable (3/8" hole) |
| | | | NOTE: Items 7 and 8 are required only on Models HD21A, F when head lights are optionally mounted on top of the radiator guard |
| 9 | 048142 | 2 | CONNECTOR, head light cables |
| 10 | 093194 | 1 | CABLE, head light, lower section (70" long) |
| 11 | 064589 | 1 | GROMMET, head light cable (5/8" hole)(Not used on Model HD21G) |
| 12 | 098201 | 1 | HARNESS, wiring, front section |
| 13 | 208960 | 1 | FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes |
| 14 | 048142 | 5 | CONNECTOR, wiring harness (1-line) |
| 15 | 098202 | 1 | HARNESS, wiring, rear section (For tractors prior to #11454 also order 1 HARNESS 098201) |
| 16 | 235794 | 8 | CLIP, head light cables (1/4" diam., 13/32" bolt-hole)(1 additional used on Model HD21G) |
| | 036032 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911115 | 1 | WASHER, plain, SAE std., 3/8" |
| 17 | 048164 | 1 | CLIP, front wiring harness (5/16" diam., 17/32" bolt-hole) |
| | 035221 | 1 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 18 | 034632 | 2 | CLIP, wiring harness (5/16" diam., 13/32" bolt-hole)(1 less used on Model HD21G) |
| 19 | 040796 | 2 | CLIP, wiring harness (3/8" diam., 13/32" bolt-hole) |
| | 036032 | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911115 | 1 | WASHER, plain, SAE std., 3/8" |
| 20 | 041262 | 1 | CLIP, front wiring harness (3/8" diam., 13/32" bolt-hole)(For Model HD21G only) |
| | 036034 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 21 | 052917 | 1 | CLIP, front wiring harness (3/8" diam., 17/32" bolt-hole) |
| | 035221 | 1 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| 22 | ------ | - | SWITCH, lights (See INSTRUMENTS) |
| 23 | ------ | - | AMMETER (See INSTRUMENTS) |
| 24 | 095860 | 1 | CABLE, ammeter to starter switch |
| 25 | ------ | - | SWITCH, starter (See INSTRUMENTS) |




LIGHT ASSEMBLY 097030

USAGE: See pages 525 and 556

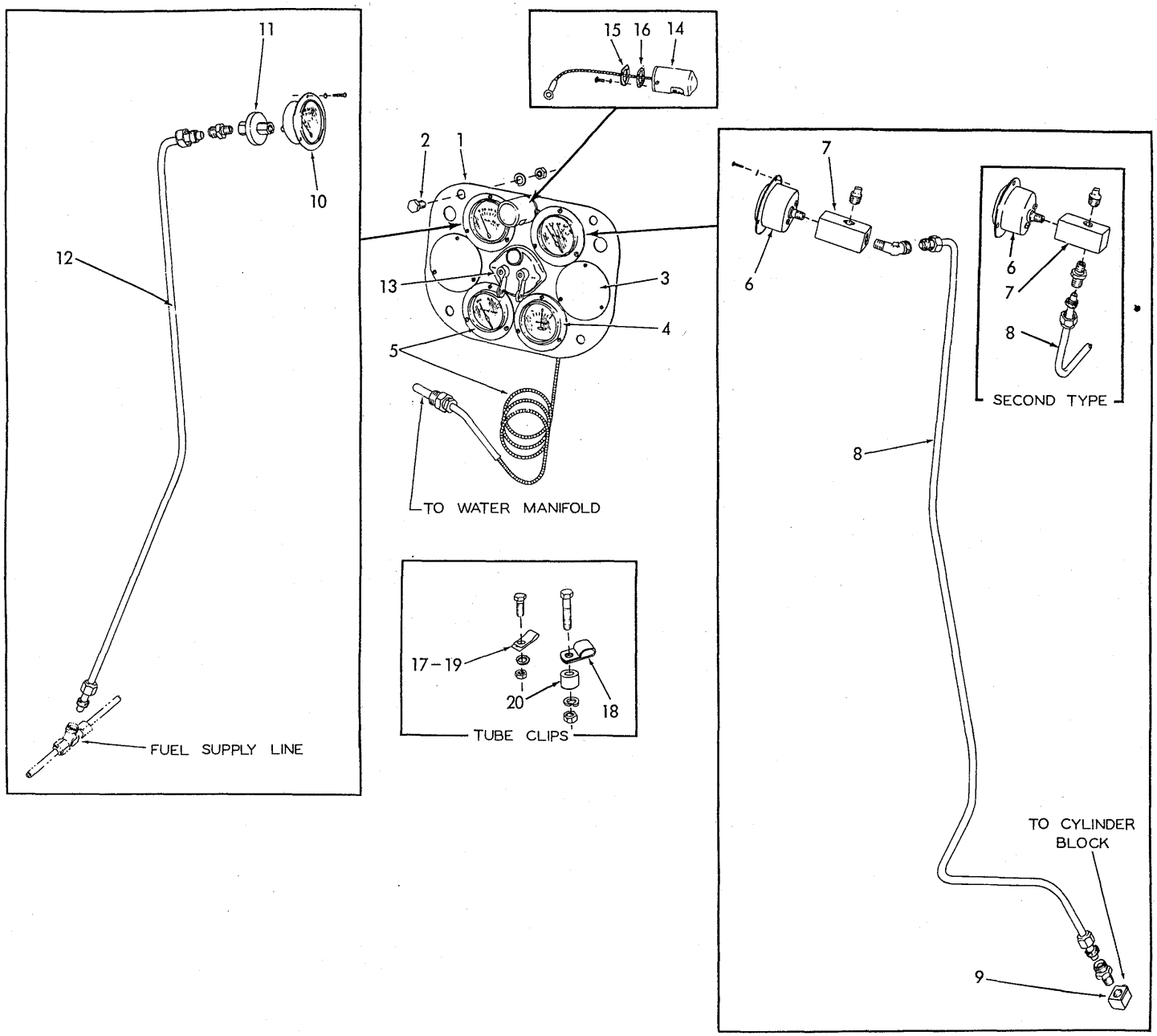
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities indicated are for one (1) light only |
| 1 | 182763 | 1 | SEALED BEAM (24 volt) |
| 2 | 097046 | 2 | MOLDING |
| 3 | 622729 | 2 | SCREW, molding |
| 4 | 097048 | 1 | RING, cushion |
| 5 | ------ | 1 | BODY ASSEMBLY (Includes wiring. Not serviced separately) |
| 6 | 055589 | 1 | TERMINAL KIT (Includes items 7 and 8) |
| 7 | 048922 | 1 | SPRING, retaining, terminal bushing |
| 8 | 034076 | 2 | SCREW, terminal |
| | 912739 | 2 | LOCKWASHER, internal teeth, #8 |




LIGHT ASSEMBLY 638283

USAGE: See pages 525 and 556

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities indicated below are for one (1) light only |
| 1 | 182763 | 1 | SEALED BEAM (24 volt) |
| 2 | 638282 | 1 | RING, retaining (rubber) |
| 3 | ------ | 1 | BODY ASSEMBLY (Includes wiring. Not serviced separately) |
| 4 | 055589 | 1 | TERMINAL KIT (Includes items 5 and 6) |
| 5 | 048922 | 1 | SPRING, retaining, terminal bushing |
| 6 | 034076 | 2 | SCREW, terminal |
| | 912739 | 2 | LOCKWASHER, internal teeth, #8 |




INSTRUMENTS (First type)

T-12041

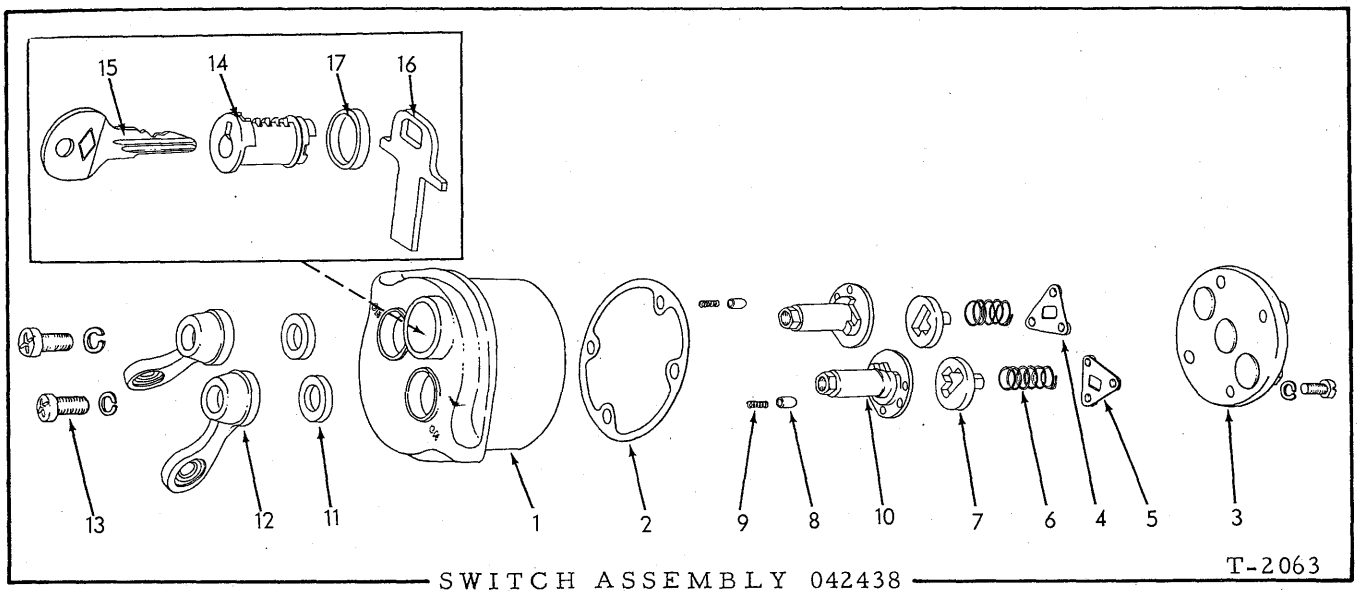
USAGE: Tractors prior to serial No. 11001

* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 050753 | 1 | 1 | PANEL, instrument |
| 2 | 036032 | 4 | 4 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| | 911041 | 4 | 4 | NUT, 3/8"NF |
| 3 | 050751 | 2 | 2 | COVER, panel holes |
| | 918210 | 6 | 6 | SCREW, thread-cutting, #6 x 1/2" (Includes lockwasher) |
| 4 | ------ | 1 | 1 | AMMETER (Original equipment. Order AMMETER 091588) |
| | 918210 | 3 | 3 | SCREW, thread-cutting, #6 x 1/2" (Includes lockwasher) |
| | 091588 | 1 | 1 | AMMETER (Includes mounting clamp)(Service replacement) |
| 5 | ------ | 1 | 1 | GAUGE, engine temperature (Original equipment. Order GAUGE 638959) |
| | 918210 | 3 | 3 | SCREW, thread-cutting, #6 x 1/2" (Includes lockwasher) |
| | 638959 | 1 | 1 | GAUGE, engine temperature (Includes mounting clamp)(Service replacement) |
| 6 | ------ | 1 | 1 | GAUGE, engine oil pressure (Original equipment. Order GAUGE 091585) |
| | 918210 | 3 | 3 | SCREW, thread-cutting, #6 x 1/2" (Includes lockwasher) |
| | 091585 | 1 | 1 | GAUGE, engine oil pressure (Includes mounting clamp)(Service replacement) |
| 7 | ------ | 1 | - | TEE, oil pressure gauge (1/8"NPT and 1/4"NPT female ends, 1/4"NPT side)(Order 1 each TEE 094450, PLUG 901651 and ADAPTER 910856) |
| | 093783 | - | 1 | TEE, oil pressure gauge (1/8"NPT female side, 1/4"NPT female ends) |
| | 901652 | 1 | 1 | PLUG, pipe, sq-hd., 1/4"NPT (Not used on tractors equipped with HOUR METER) |
| 8 | 084713 | 1 | - | TUBE, oil pressure gauge |
| | 094050 | - | 1 | TUBE, oil pressure gauge |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 916771 | 1 | - | ELBOW, Sealastic, 45°, 3/8" tube, 1/4"NPT male |
| | 915368 | 1 | 2 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male |
| 9 | 047852 | 1 | 1 | ELBOW, oil pressure gauge tube |
| 10 | ------ | 1 | 1 | GAUGE, fuel pressure (Original equipment. Order GAUGE 641636) |
| | 918210 | 3 | 3 | SCREW, thread-cutting, #6 x 1/2" (Includes lockwasher) |
| | 641636 | 1 | 1 | GAUGE, fuel pressure (Includes mounting clamp)(Service replacement) |
| 11 | 069674 | 1 | 1 | RESTRICTOR, fuel pressure gauge |

(Continued)

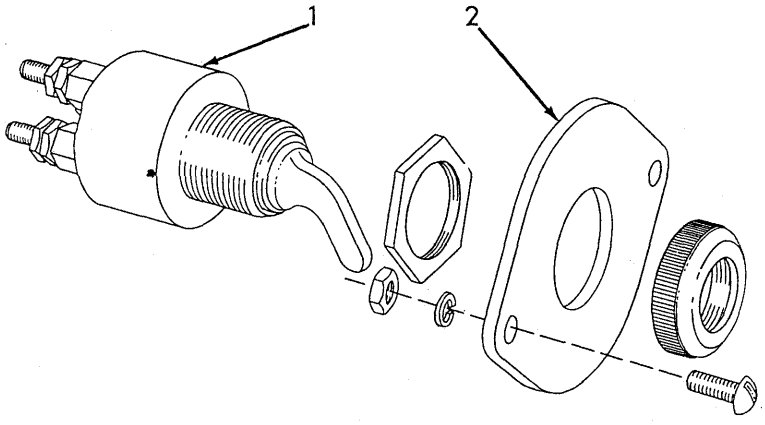
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| | 082289 | 1 | - | TUBE, fuel pressure gauge (Tractors prior to #7269) |
| | 915369 | 1 | - | ELBOW, Sealastic, 90°, 3/8" tube, 1/4"NPT male |
| | 084710 | 1 | 1 | •TUBE, fuel pressure gauge (Tractors #7269 and up) |
| 12 | 915368 | 1 | 1 | CONNECTOR, Sealastic, 3/8" tube, 1/4"NPT male (Not used on tractors equipped with air heater) |
| | 918325 | 2 | 2 | NUT, Sealastic, 3/8" tube |
| | 915367 | 2 | 2 | RING, Sealastic, 3/8" tube (Includes ferrule) |
| | 042438 | 1 | 1 | SWITCH ASSEMBLY, lights (See page 531 for parts)(Original equipment. Order SWITCH KIT 096206) |
| | 042504 | 2 | 2 | SCREW, machine, cross-recessed-hd., #8-32NC x 3/8" |
| 13 | 906964 | 2 | 2 | LOCKWASHER, #8 |
| | 096206 | 1 | 1 | SWITCH KIT, lights and ignition (See page 532 for parts)(Service replacement) |
| 14 | 069942 | 1 | 1 | LIGHT ASSEMBLY, instrument panel (See page 533 for parts)(Order 1 each LIGHT ASSEMBLY 095257, WASHER 912022, LOCK-WASHER 910334 and NUT 911049) |
| | 900553 | 3 | 3 | SCREW, machine, #8-32NC x 3/4" |
| | 906964 | 3 | 3 | LOCKWASHER, #8 |
| 15 | 075851 | 1 | 1 | WASHER, panel light mounting (steel) |
| 16 | 075852 | 2 | 2 | WASHER, panel light mounting (rubber) |
| 17 | 041262 | 2 | 2 | CLIP, oil pressure gauge tube (3/8" diam., 13/32" bolt-hole) |
| | 035244 | 1 | 1 | CAPSCREW, 3/8"NC x 3/4" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| 18 | 055676 | 1 | 1 | CLIP, fuel and oil pressure gauge tubes(For two 3/8" diam. tubes, 13/32" bolt-hole) |
| | 036032 | 1 | 1 | CAPSCREW, 3/8"NF x 3/4" (Not used on Models HD21A,F after serial #9000) |
| | 203188 | - | 1 | CAPSCREW, 3/8"NF x 1-1/2" (For Models HD21A,F only) |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF (For Models HD21A,F only) |
| 19 | 073809 | 1 | 1 | CLIP, engine temperature gauge tube (3/16" diam., 13/32" bolt-hole) |
| | 036032 | 1 | 1 | CAPSCREW, 3/8"NF x 3/4" } For Models HD21A,F only |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" } For Models HD21A,F only |
| | 911041 | 1 | 1 | NUT, 3/8"NF } For Models HD21A,F only |
| 20 | 044721 | - | 1 | SPACER, tube supporting clip (For Models HD21A,F only) |




SWITCH ASSEMBLY 042438

USAGE: See page 529

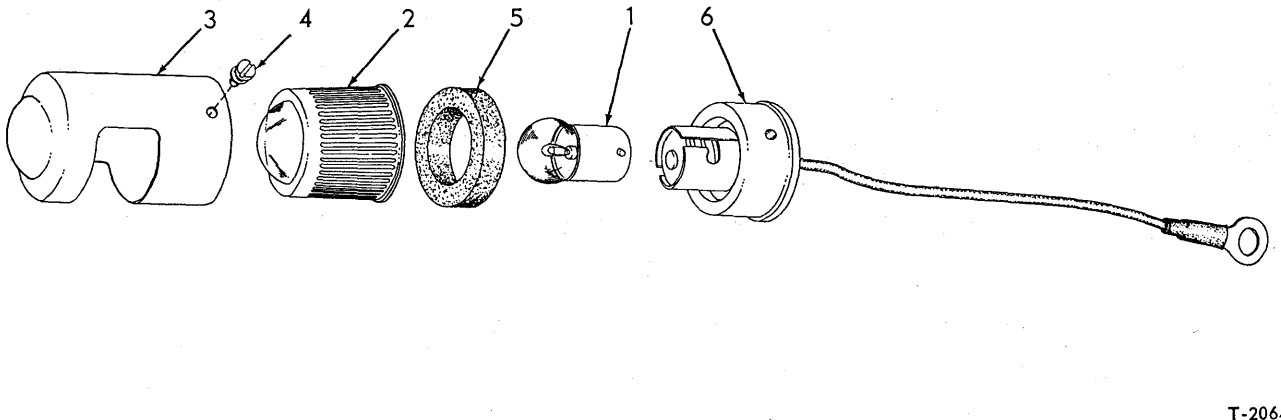
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 042458 | 1 | HOUSING ASSEMBLY (Includes expansion plug) |
| 2 | 042489 | 1 | GASKET, housing |
| 3 | 042459 | 1 | BACK ASSEMBLY (Includes terminal nuts) |
| | 913885 | 4 | SCREW, fil-hd., #10 x 7/16" |
| | 904203 | 4 | LOCKWASHER, #10 |
| 4 | 042462 | 1 | CONTACT, ignition |
| 5 | 042463 | 1 | CONTACT, lights |
| 6 | 042491 | 2 | SPRING, contact |
| 7 | 042460 | 2 | SUPPORT, contact |
| 8 | 042493 | 2 | CUP, ratchet |
| 9 | 042492 | 2 | SPRING, ratchet cup (small) |
| 10 | 042461 | 2 | SHAFT, operating lever |
| 11 | 042490 | 2 | WASHER, operating lever shaft (felt) |
| 12 | 042464 | 2 | LEVER, operating |
| 13 | 913885 | 2 | SCREW, fil-hd., #10 x 7/16" |
| | 904203 | 2 | LOCKWASHER, #10 |
| | | | NOTE: Items 14 thru 17 comprise the LOCK ARRANGEMENT which is available as special equipment. |
| 14 | 042635 | 1 | LOCK ASSEMBLY (Includes item 15) |
| 15 | ------ | 2 | KEY, lock (Discontinued) |
| 16 | 042634 | 1 | PLATE, lock |
| 17 | 042633 | 1 | COLLAR, lock |




SWITCH KIT 096206 T-22552

USAGE: See page 529

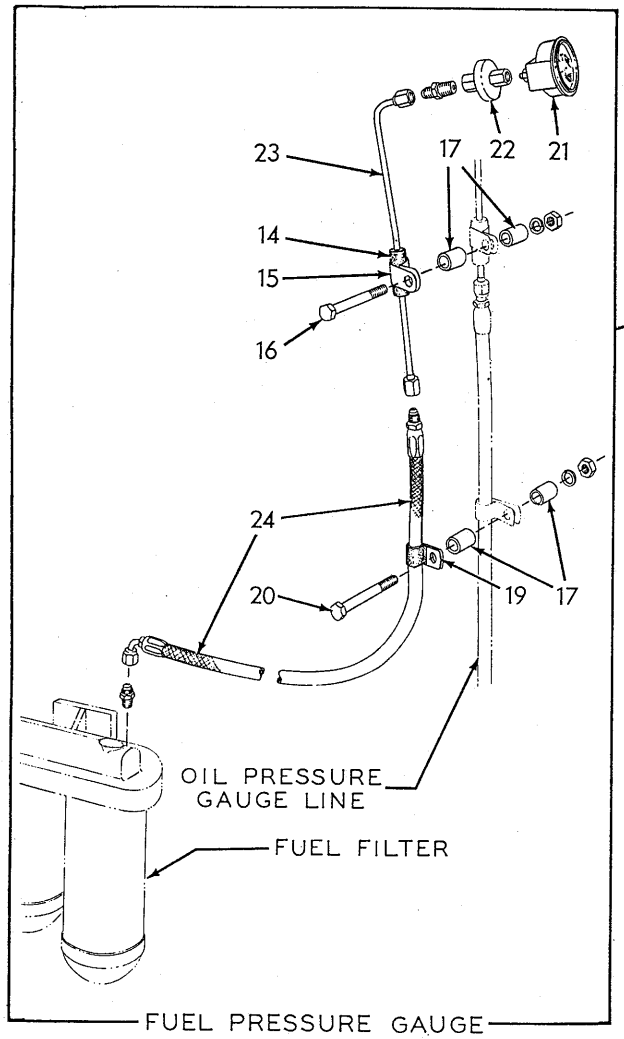
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 083920 | 1 | SWITCH ASSEMBLY, lights and ignition (Includes mounting nuts) |
| 2 | 096205 | 1 | PLATE, switch adapting |
| | 900553 | 2 | SCREW, machine, #8-32NC x 1/2" |
| | 906964 | 2 | LOCKWASHER, #8 |
| | 907154 | 2 | NUT, #8-32NC |



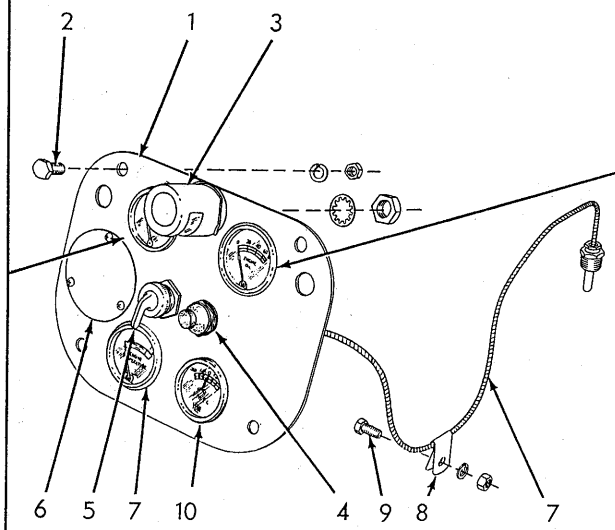

LIGHT ASSEMBLY 069942

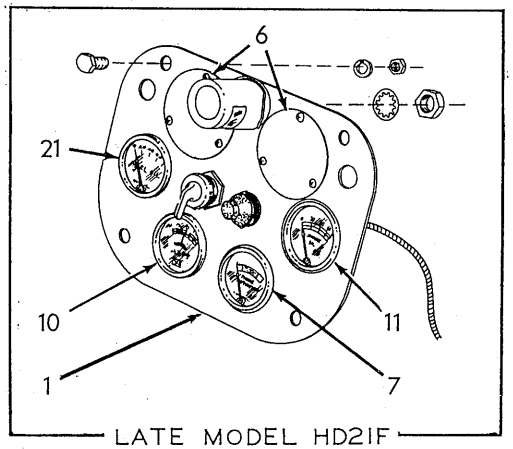
USAGE: See page 529

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 074452 | 1 | BULB, incandescent, single contact, 6 c.p., 24 volts |
| 2 | 040974 | 1 | GLASS |
| 3 | 040973 | 1 | COVER, bulb |
| 4 | 044211 | 2 | SCREW |
| 5 | 040969 | 1 | GASKET, bulb cover |
| 6 | ------ | - | BASE ASSEMBLY (Not serviced separately) |

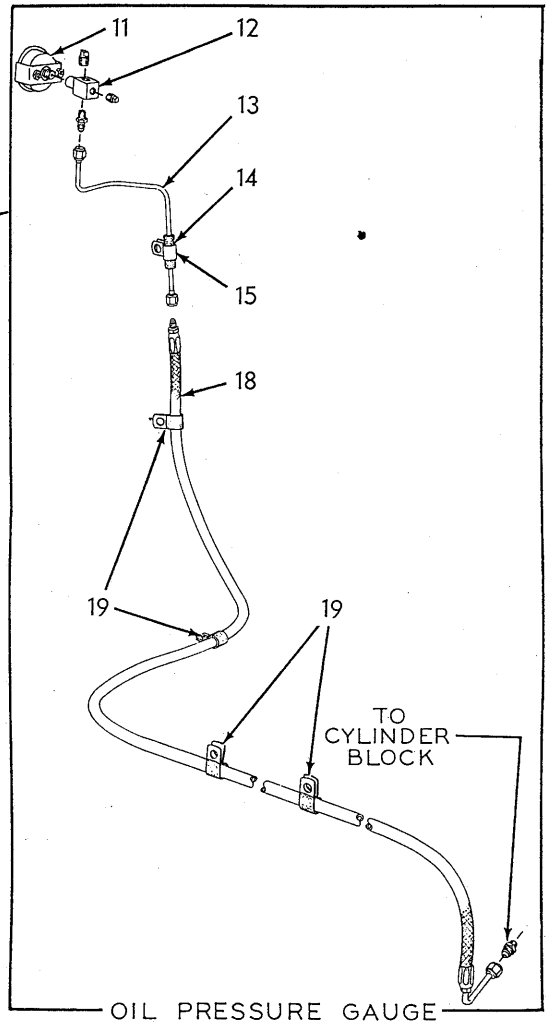



FUEL PRESSURE GAUGE




LATE MODEL HD21F




OIL PRESSURE GAUGE

INSTRUMENTS (Second type)

T-19628

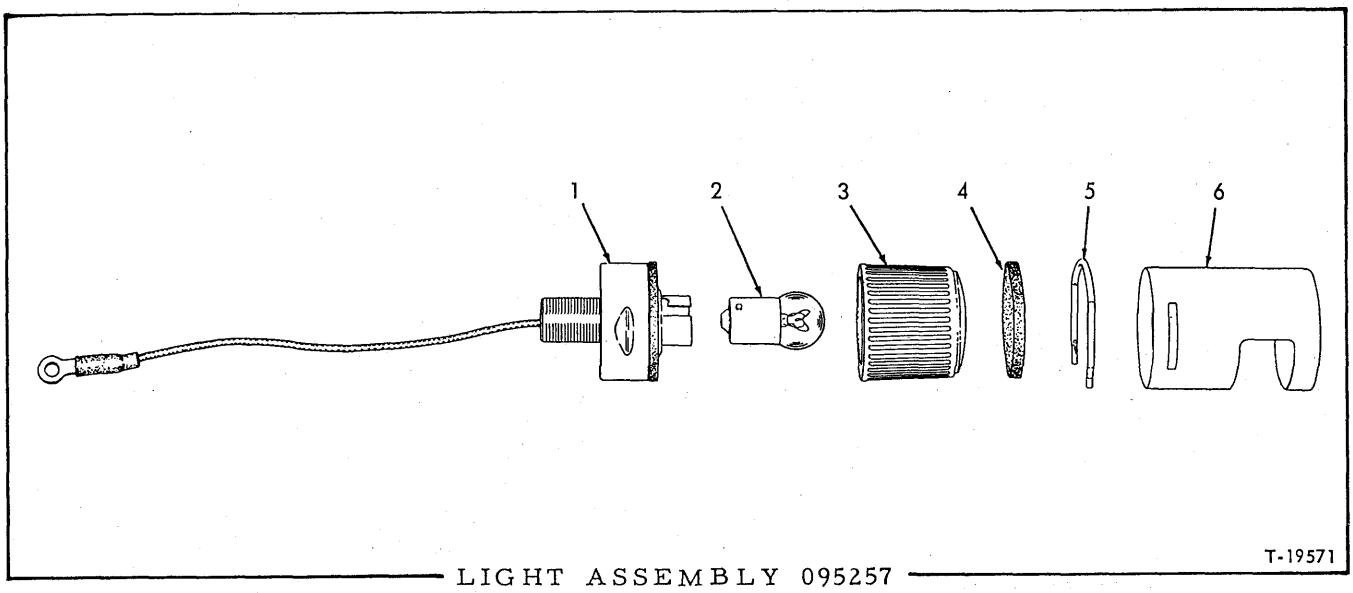
USAGE: Tractors serial No. 11001 and up

* Model HD21A; also HD21F prior to tractor serial No. 11859
** Model HD21F effective with tractor serial No. 11859
*** Model HD21G

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 096247 | 1 | - | 1 | PANEL, instrument |
| | 097527 | - | 1 | - | PANEL, instrument |
| 2 | 036032 | 4 | 4 | 4 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 4 | 4 | 4 | LOCKWASHER, 3/8" |
| | 911041 | 4 | 4 | - | NUT, 3/8"NF |
| 3 | 095257 | 1 | 1 | 1 | LIGHT ASSEMBLY, instrument panel (See page 537 for parts) |
| | 911049 | 1 | 1 | 1 | NUT, jam, 5/8"NF |
| | 910334 | 1 | 1 | 1 | LOCKWASHER, internal teeth, 5/8" |
| | 912022 | 1 | 1 | 1 | WASHER, spacing |
| 4 | 240962 | 1 | 1 | 1 | SWITCH ASSEMBLY, starter (Includes mounting nut) |
| 5 | 083920 | 1 | 1 | 1 | SWITCH ASSEMBLY, lights (Includes mounting nuts) |
| 6 | 050751 | 1 | 2 | 1 | COVER, panel hole |
| | 918210 | 3 | 6 | 3 | SCREW, thread-cutting, #6 x 1/2" (Includes lockwasher) |
| 7 | 638959 | 1 | 1 | 1 | GAUGE, engine temperature (Includes mounting clamp) |
| 8 | 073809 | 1 | 1 | - | CLIP, temperature gauge tube |
| 9 | 036032 | 1 | 1 | - | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 1 | 1 | - | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | - | NUT, 3/8"NF |
| 10 | 091588 | 1 | 1 | 1 | AMMETER (Includes mounting clamp) |
| 11 | 091585 | 1 | 1 | 1 | GAUGE, engine oil pressure (Includes mounting clamp) |
| 12 | 094450 | 1 | 1 | 1 | TEE, oil pressure gauge |
| | 901651 | 1 | 1 | 1 | PLUG, pipe, 1/8"NPT |
| | 901652 | 1 | 1 | 1 | PLUG, pipe, 1/4"NPT (Not used on tractors equipped with Hour Meter) |
| 13 | 096531 | 1 | - | 1 | TUBE ASSEMBLY, oil pressure gauge (Includes nuts) |
| | 097729 | - | 1 | - | TUBE ASSEMBLY, oil pressure gauge (Includes nuts) |
| | 919171 | 1 | 1 | 1 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male |
| 14 | 093972 | 2 | 2 | 2 | BOOT, tube protecting (rubber) |
| 15 | 047381 | 2 | 2 | 2 | CLIP, tube supporting |
| 16 | 082013 | 1 | 1 | - | CAPSCREW, 3/8"NC x 3-1/4" |
| | 058793 | - | - | 1 | CAPSCREW, 3/8"NC x 2-1/4" |
| | 904206 | 1 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911026 | 1 | 1 | 1 | NUT, 3/8"NC |
| 17 | 096228 | 4 | 4 | 2 | SPACER, supporting clips |

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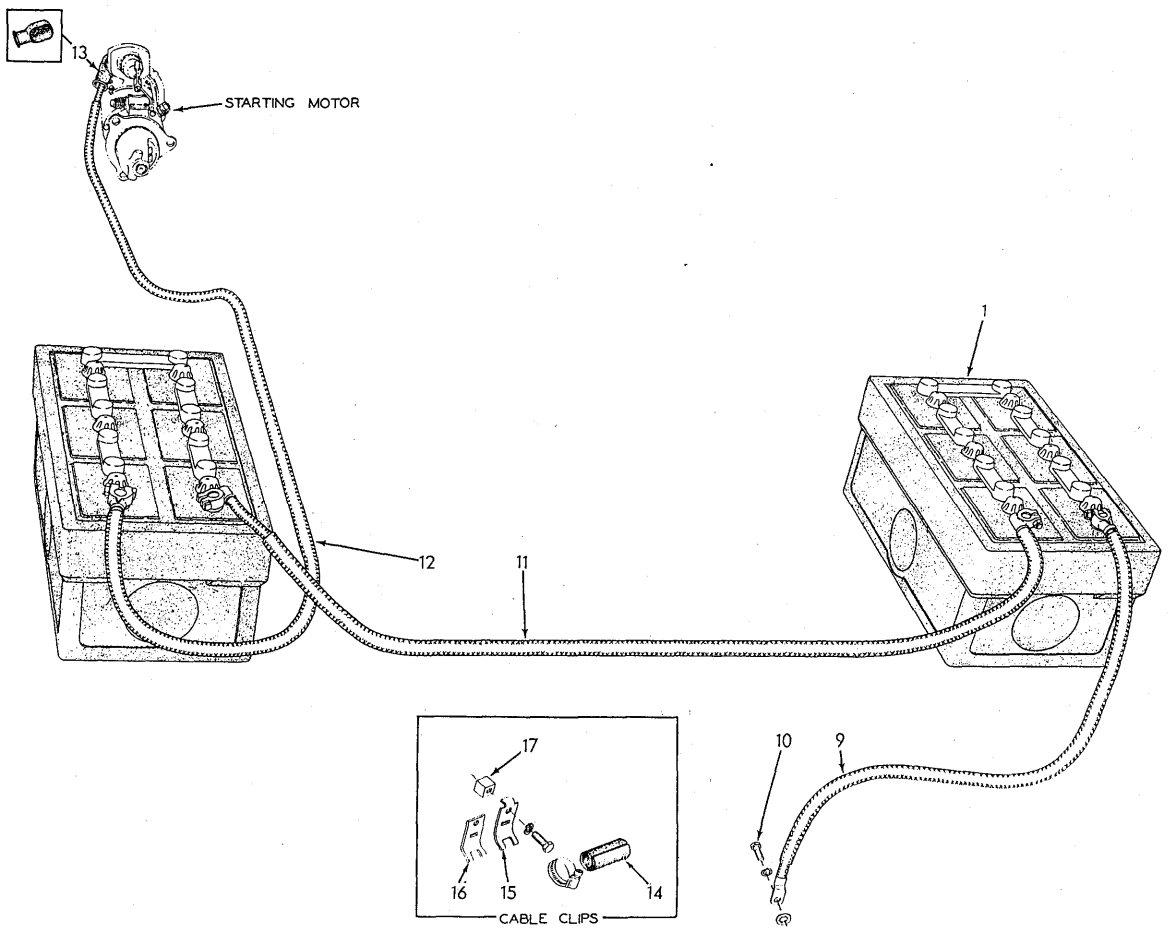
| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 18 | 095440 | 1 | 1 | 1 | HOSE ASSEMBLY, oil pressure gauge (See page 6 for parts) |
| | 919171 | 1 | 1 | 1 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male (Used prior to tractor #11274) |
| | 919140 | 1 | 1 | 1 | CONNECTOR, flare type, 1/4" tube, 1/4"NPT male (Effective with tractor #11274) |
| 19 | 094527 | 5 | 5 | 5 | CLIP, hose supporting |
| 20 | 082013 | 1 | 1 | - | CAPSCREW, 3/8"NC x 3-1/4" |
| | 035336 | - | - | 1 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 904206 | 1 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911026 | 1 | 1 | 1 | NUT, 3/8"NC |
| 21 | 641636 | 1 | 1 | 1 | GAUGE, fuel pressure (Includes mounting clamp) |
| 22 | 069674 | 1 | 1 | 1 | RESTRICTOR, fuel pressure gauge |
| 23 | 096532 | 1 | - | 1 | TUBE ASSEMBLY, fuel pressure gauge (Includes nuts) |
| | 097728 | - | 1 | - | TUBE ASSEMBLY, fuel pressure gauge (Includes nuts) |
| | 919140 | 1 | 1 | 1 | CONNECTOR, flare type, 1/4" tube, 1/4"NPT male |
| 24 | 096197 | 1 | 1 | 1 | HOSE ASSEMBLY, fuel pressure gauge (See page 6 for parts) |
| | 919171 | 1 | 1 | 1 | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male |



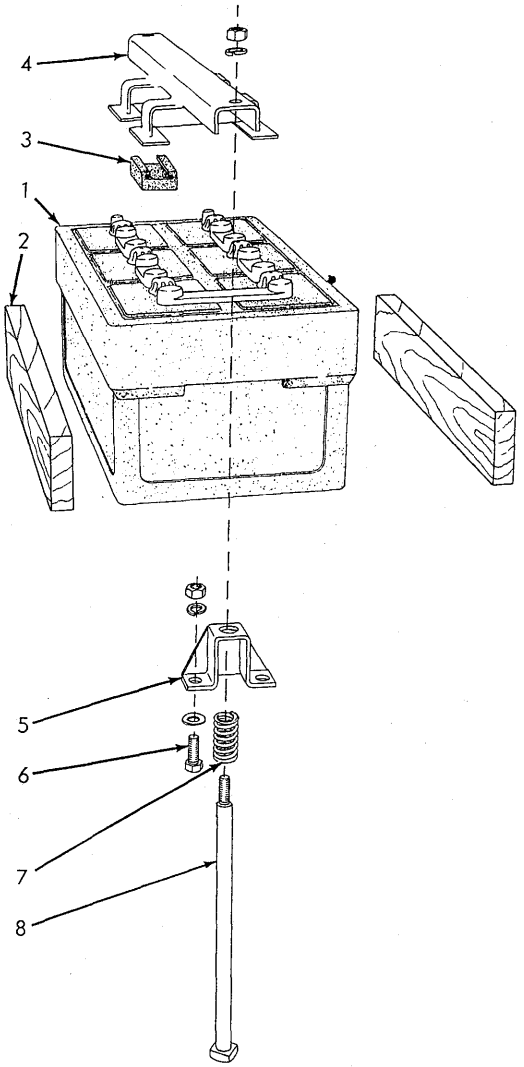

LIGHT ASSEMBLY 095257

USAGE: See page 535

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | BASE ASSEMBLY (Not serviced separately) |
| 2 | 074452 | 1 | BULB, incandescent, single contact, 6c. p., 24 volts |
| 3 | 095267 | 1 | LENS |
| 4 | 095268 | 1 | GASKET |
| 5 | 095265 | 1 | SPRING, cover retaining |
| 6 | 095269 | 1 | COVER |




T-11254




BATTERY MOUNTING

T-11255

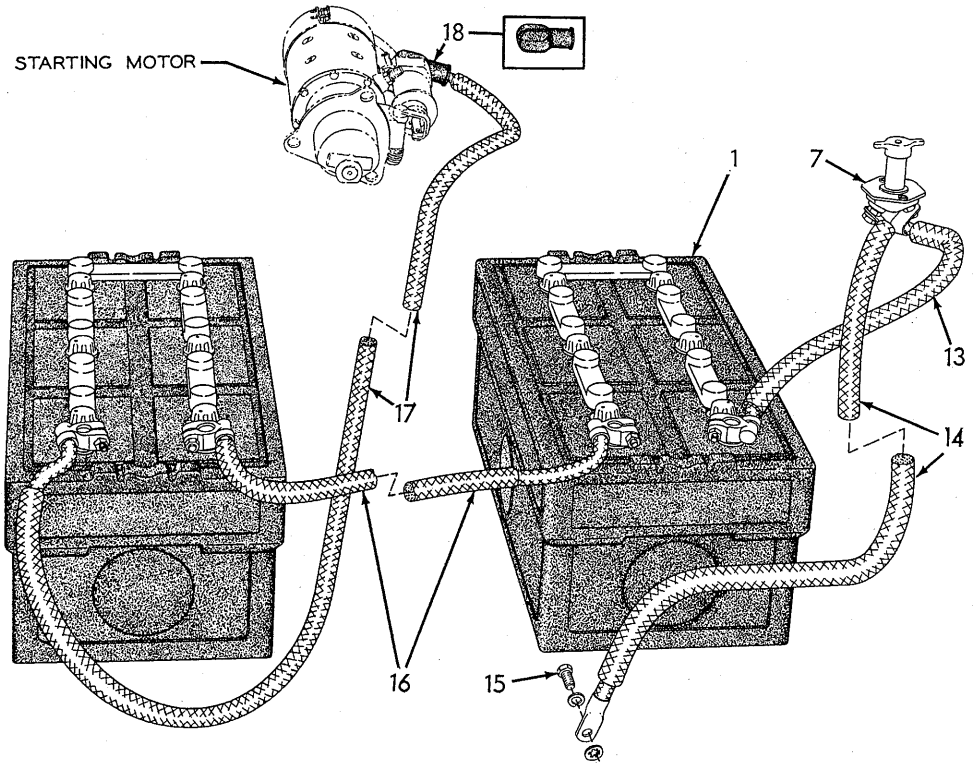
BATTERIES AND CABLES (First type)

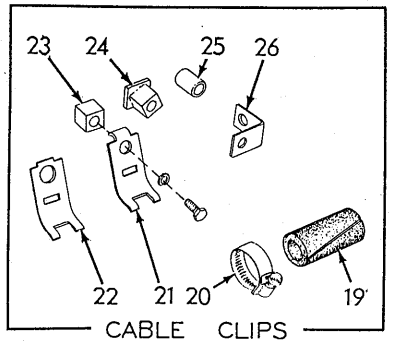
# BATTERIES AND CABLES

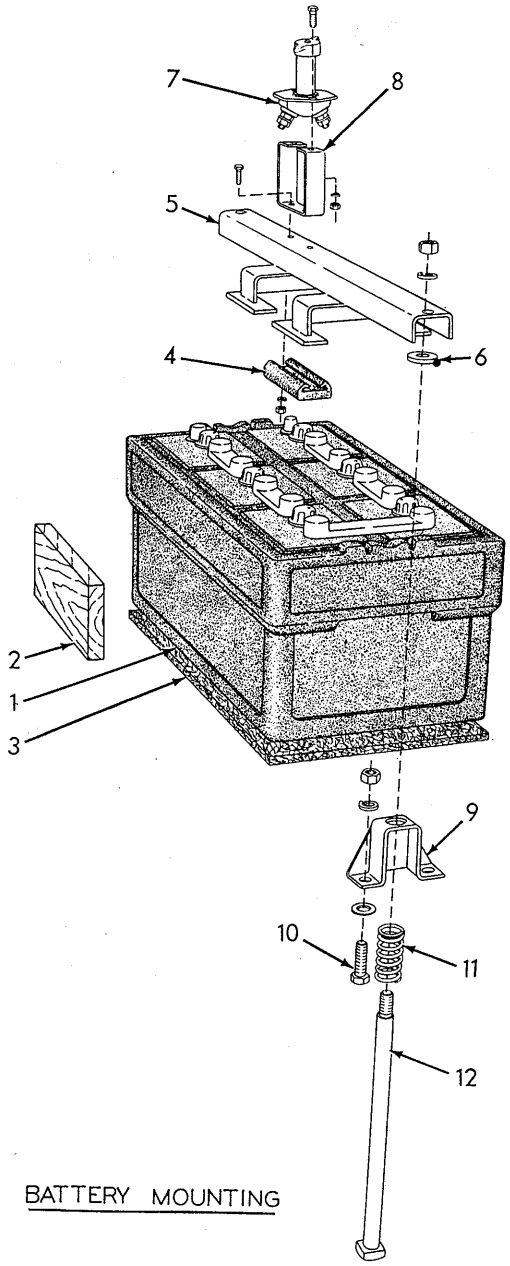
USAGE: Tractors prior to serial No. 11001

* Model HD21A
** Models HD21F, G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 2 | 2 | BATTERY, storage, 12 volts, 25 plates ("Auto-lite" #8DA-204 or "Exide" #8D-1145. Order from local dealer) |
| 2 | ------ | - | - | BOARD, battery spacing (Procure locally as required) |
| 3 | 052791 | 8 | 8 | BLOCK, hold-down (rubber) |
| 4 | 052782 | 2 | 2 | HOLD-DOWN, battery |
| 5 | 081867 | 4 | 4 | BRACKET, hold-down bolt |
| 6 | 035190 | 4 | - | CAPSCREW, 1/2"NC x 1-1/2" |
| | 035236 | 4 | 8 | CAPSCREW, 1/2"NC x 1-3/4" |
| | 064531 | 4 | 8 | WASHER, plain |
| | 904208 | 8 | 8 | LOCKWASHER, 1/2" |
| | 911028 | 4 | 8 | NUT, 1/2"NC |
| 7 | 081404 | 4 | 4 | SPRING, hold-down bolt |
| 8 | 052790 | 4 | 4 | BOLT, hold-down |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | NUT, 1/2"NF |
| 9 | 089655 | 1 | - | CABLE, battery to ground (39" long) |
| | 089656 | - | 1 | CABLE, battery to ground (50" long) |
| 10 | 036034 | 1 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 906960 | 1 | 1 | LOCKWASHER, internal teeth, 3/8" |
| 11 | 069743 | 1 | - | CABLE, battery connecting (58-1/2" long) |
| | 644648 | - | 1 | STRAP, battery connecting (6-1/2" long) |
| 12 | 622064 | 1 | - | CABLE, battery to starter (127" long) |
| | 089654 | - | 1 | CABLE, battery to starter (146" long) |
| 13 | 076572 | 1 | 1 | BOOT, protecting, starter terminal |
| | 921912 | 1 | 1 | CLAMP, hose, 1-1/16" to 2 diam. |
| 14 | 076469 | 15 | 11 | BOOT, cable protecting |
| | 921912 | 15 | 11 | CLAMP, hose, 1-1/16" to 2" diam. |
| 15 | 076470 | 11 | 9 | CLIP, cable supporting (1 less used on Model HD21F) |
| | 036032 | 3 | 3 | CAPSCREW, 3/8"NF x 3/4" |
| | 035336 | 6 | 6 | CAPSCREW, 3/8"NF x 1-3/4" |
| | 046419 | 1 | - | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 10 | 9 | LOCKWASHER, 3/8" |
| 16 | 084895 | - | 1 | CLIP, supporting, ground cable |
| | 036032 | - | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | - | 1 | LOCKWASHER, 3/8" |
| 17 | 068157 | 7 | 7 | BLOCK, clip spacing (3/4" thick)(1 less used on Model HD21F) |




BATTERIES AND CABLES (Second type)

T-19682

# BATTERIES AND CABLES

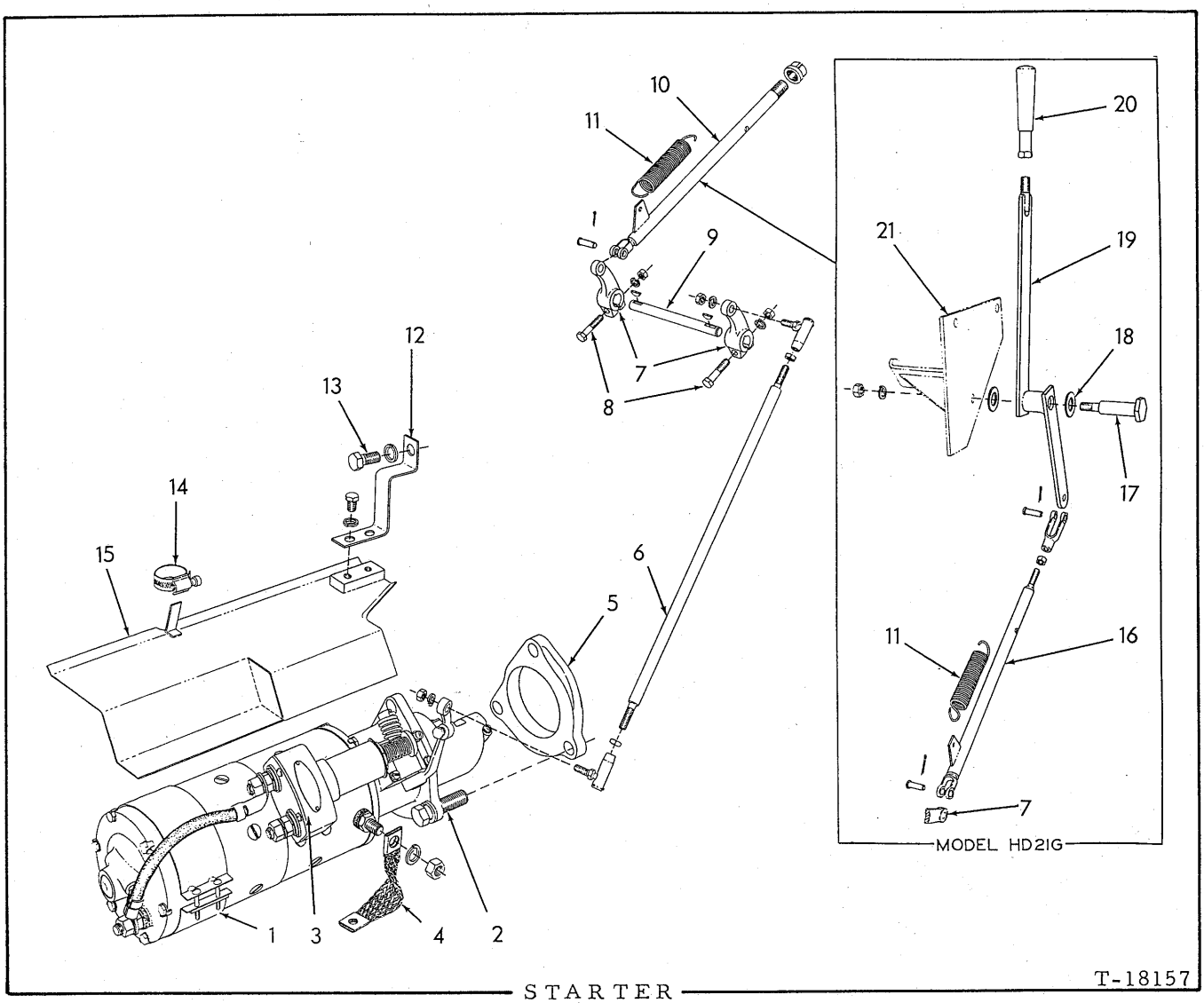
USAGE: Tractors serial No. 11001 and up

* Model HD21A
** Model HD21F
*** Model HD21G

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | ------ | 2 | 2 | 2 | BATTERY, storage, 12 volts, 25 plates ("Autolite" #8DA-204 or "Exide" 8D-1145. Order from local dealer) |
| 2 | ------ | - | - | - | BOARD, battery spacing (Procure locally as req'd) |
| 3 | 085680 | 2 | 2 | 2 | PAD, battery bottom (Effective with tractor #11682) |
| 4 | 052791 | 8 | 8 | 8 | BLOCK, hold-down (rubber) |
| 5 | 052782 | 2 | 2 | 2 | HOLD-DOWN, battery |
| 6 | 064531 | 4 | 4 | 4 | WASHER, spacing, battery hold-down (Effective with tractor #11250) |
| 7 | 096908 | 1 | 1 | 1 | SWITCH ASSEMBLY, master (Serviced only as a unit) |
| | 912789 | 2 | 2 | 2 | CAPSCREW, 1/4"NF x 3/4" |
| | 904204 | 2 | 2 | 2 | LOCKWASHER, 1/4" |
| | 911040 | 2 | 2 | 2 | NUT, 1/4"NF |
| 8 | 096913 | 1 | 1 | 1 | BRACKET, master switch |
| | 912789 | 2 | 2 | 2 | CAPSCREW, 1/4"NF x 3/4" |
| | 904204 | 2 | 2 | 2 | LOCKWASHER, 1/4" |
| | 911040 | 2 | 2 | 2 | NUT, 1/4"NF |
| 9 | 081867 | 4 | 4 | 4 | BRACKET, hold-down bolt |
| 10 | 035018 | 8 | - | - | CAPSCREW, 1/2"NF x 1-1/2" (All units except tractors #11682 thru #12335) |
| | 035067 | 8 | - | - | CAPSCREW, 1/2"NF x 2" (Tractors #11682 thru #12335 only) |
| | 035236 | - | 8 | 8 | CAPSCREW, 1/2"NC x 1-3/4" (All units except tractors #11685 thru #12335) |
| | 921556 | - | 8 | 8 | CAPSCREW, 1/2"NC x 2" (Tractors #11685 thru #12335 only) |
| | 064810 | 8 | 8 | 8 | WASHER, plain (For spacing)(Tractors #11682 thru #12335 only) |
| | 064531 | - | 8 | 8 | WASHER, plain |
| | 904208 | 8 | 8 | 8 | LOCKWASHER, 1/2" |
| | 911043 | 8 | - | - | NUT, 1/2"NF |
| | 911028 | - | 8 | 8 | NUT, 1/2"NC |
| 11 | 081404 | 4 | 4 | 4 | SPRING, hold-down bolt |
| 12 | 096111 | 4 | 4 | 4 | BOLT, hold-down (12-3/4" long)(Used prior to tractor #12336) |
| | 087313 | 4 | 4 | 4 | BOLT, hold-down (13-1/2" long)(Effective with tractor #12336) |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | 4 | NUT, 1/2"NF |
| 13 | 096918 | 1 | 1 | 1 | CABLE, battery to master switch (15-1/2" long) |
| 14 | 096467 | 1 | - | - | CABLE, master switch to ground (45" long) |
| | 097063 | - | 1 | 1 | CABLE, master switch to ground (49" long) |
| | 906961 | - | 1 | 1 | LOCKWASHER, internal teeth, 1/2" |
| 15 | 036034 | 1 | - | - | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | - | - | LOCKWASHER, 3/8" |
| | 906960 | 1 | - | - | LOCKWASHER, internal teeth, 3/8" |

(Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 16 | 069743 | 1 | - | - | CABLE, battery connecting (58-1/2" long) |
| | 644648 | - | 1 | 1 | STRAP, battery connecting (6-1/2" long) |
| 17 | 096594 | 1 | - | - | CABLE, battery to starter (155" long) |
| | 097121 | - | 1 | 1 | CABLE, battery to starter (190" long) |
| 18 | 076572 | 1 | 1 | 1 | BOOT, protecting, starter terminal |
| 19 | 076469 | 17 | 14 | 14 | BOOT, cable protecting |
| 20 | 921912 | 18 | 15 | 15 | CLAMP, hose, 1-1/16" to 2" diam. |
| 21 | 076470 | 5 | 5 | 4 | CLIP, cable supporting |
| | 036032 | 5 | 5 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| | 036034 | - | - | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 5 | 5 | 4 | LOCKWASHER, 3/8" |
| | 911041 | - | - | 2 | NUT, 3/8"NF |
| 22 | 084895 | 8 | 7 | 8 | CLIP, cable supporting |
| | 036032 | - | - | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 035167 | 6 | 6 | 6 | CAPSCREW, 3/8"NF x 7/8" |
| | 911115 | 5 | - | 6 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 6 | 6 | 7 | LOCKWASHER, 3/8" |
| | 911041 | - | - | 1 | NUT, 3/8"NF |
| | 064531 | 1 | - | - | WASHER, plain (For spacing) |
| 23 | 068157 | 1 | - | - | BLOCK, clip spacing (Used prior to tractor #12001, excluding #11808 and #11809) |
| 24 | 094187 | 1 | - | - | BLOCK, clip spacing (square)(Used prior to tractor #12001, excluding #11808 and #11809) |
| 25 | 043024 | - | 1 | - | BLOCK, clip spacing (Used prior to tractor #12001) |
| 26 | 093976 | - | - | 3 | ANGLE, clip supporting |
| | 036032 | - | - | 1 | CAPSCREW, 3/8"NF x 3/4" |
| | 036034 | - | - | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | - | - | 3 | LOCKWASHER, 3/8" |




STARTER

T-18157

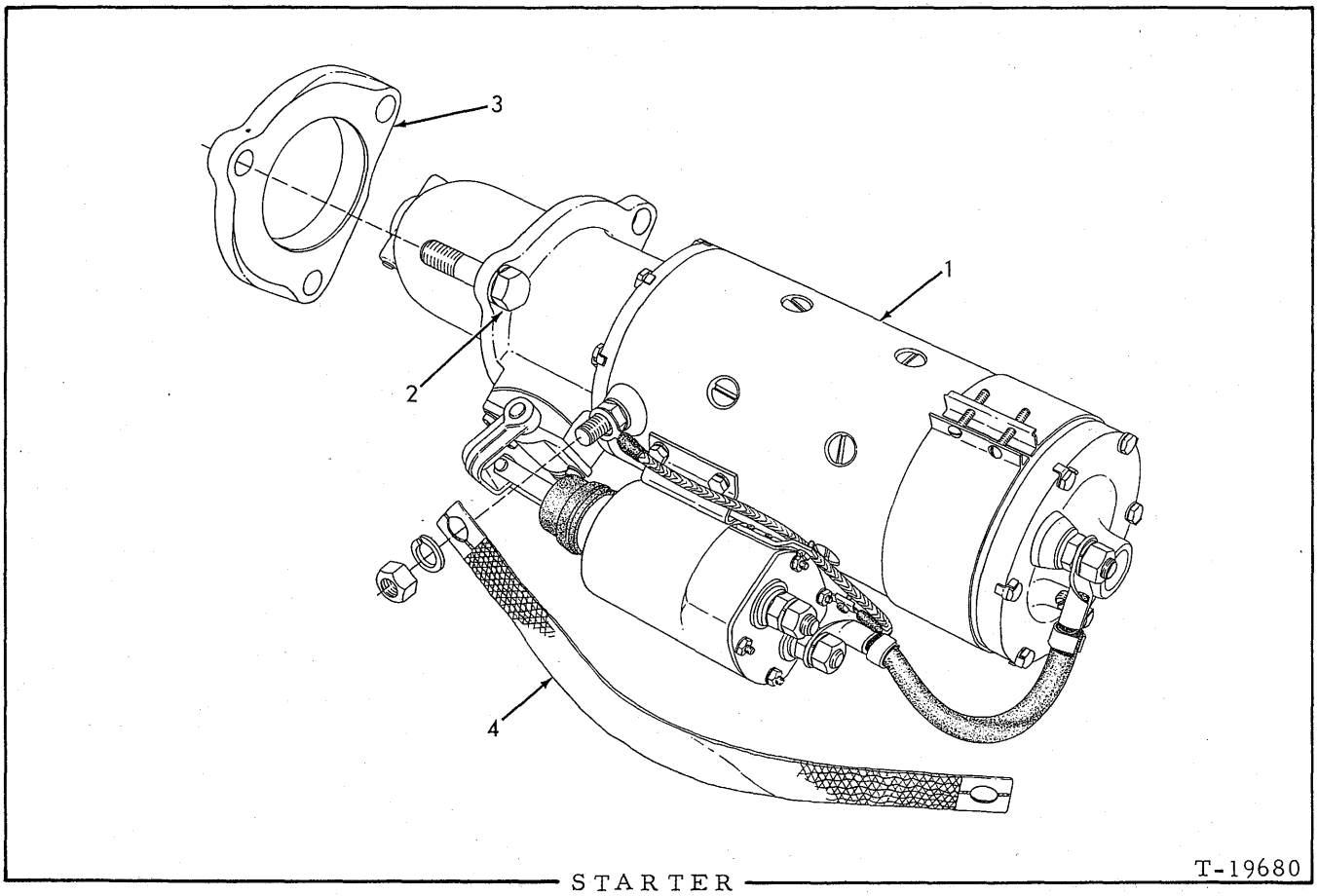
USAGE: Tractors prior to serial No. 11001

* Models HD21A, F
** Model HD21G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 081600 | 1 | 1 | MOTOR, starting ("Delco-Remy" #000888. Order parts from local "United Motors" service agency)(Includes item 3) |
| 2 | 023755 | 3 | 3 | CAPSCREW, 5/8"NC x 2-1/4" |
| | 904209 | 3 | 3 | LOCKWASHER, 5/8" |
| 3 | 095312 | 1 | 1 | SWITCH, starting motor ("Delco-Remy" #1996453)(Order parts from local "United Motors" service agency) |
| 4 | 081561 | 1 | 1 | STRAP, starter to ground |
| 5 | 4304902 | 1 | 1 | ADAPTER, starting motor |
| 6 | 091002 | 1 | 1 | ROD, starter, lower |
| | 910980 | 2 | 2 | NUT, jam, 5/16"NF |
| | 915846 | 2 | 2 | JOINT, ball, 5/16"NF |
| | 904205 | 2 | 2 | LOCKWASHER, 5/16" |
| | 913636 | 2 | 2 | NUT, 5/16"NF |

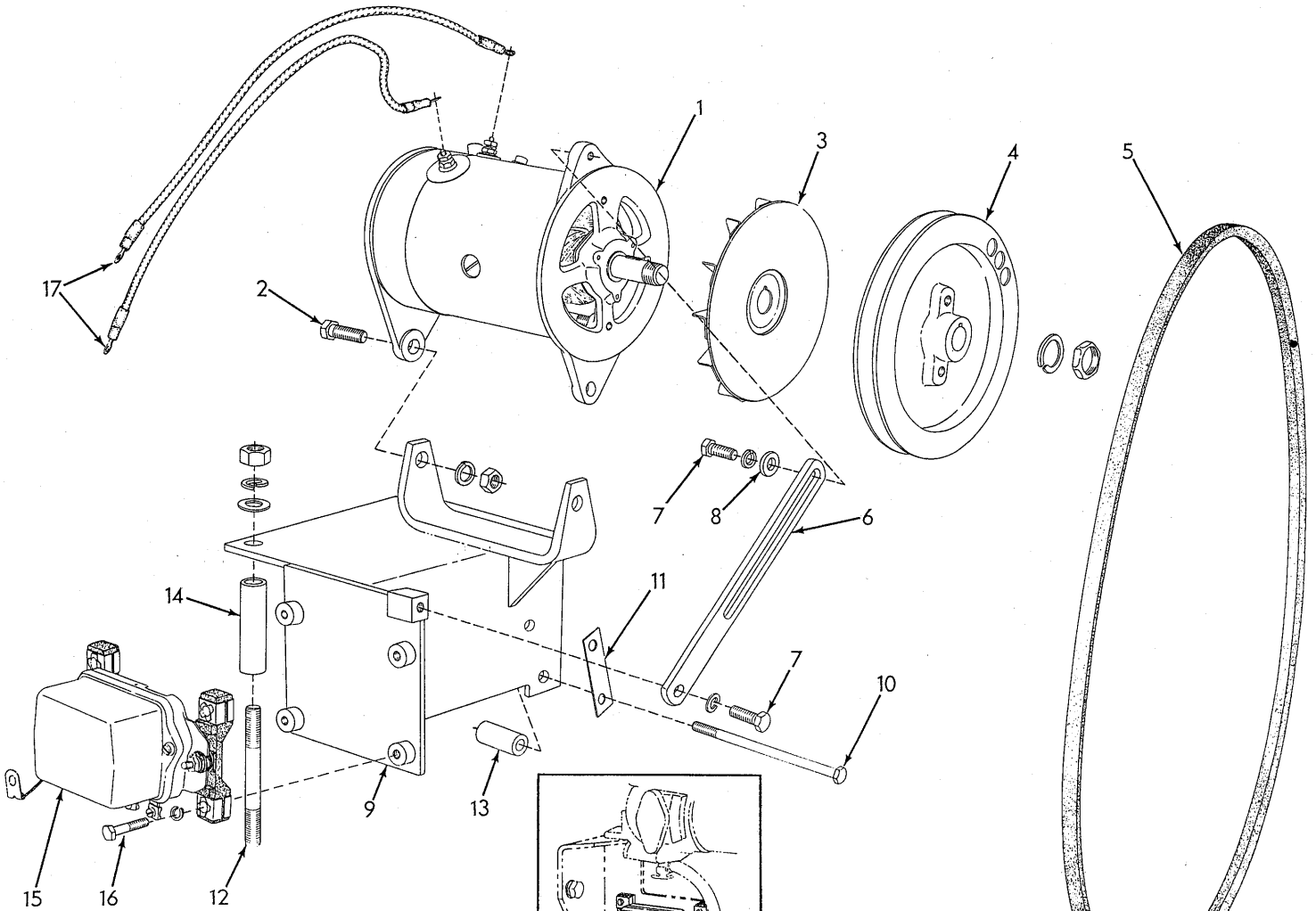
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| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 7 | 081737 | 2 | 2 | LEVER, connecting, starter rods |
| | 905121 | 2 | 2 | KEY, #5 woodruff, 1/8" x 5/8" |
| 8 | 041981 | 2 | 2 | CAPSCREW, 5/16"NF x 1-1/2" |
| | 904205 | 2 | 2 | LOCKWASHER, 5/16" |
| | 913636 | 2 | 2 | NUT, 5/16"NF |
| 9 | 081236 | 1 | - | SHAFT, pivot, starter rod (5-1/2" long) |
| | 084405 | - | 1 | SHAFT, pivot, starter rod (4-3/4" long) |
| 10 | 081261 | 1 | 1 | ROD, starter, upper (Not used on Model HD21G after tractor #9026) |
| | 901752 | 1 | 1 | CAP, pipe, 3/8"NPT |
| | 627451 | 1 | 1 | PIN, yoke, 5/16" diam. |
| | 900970 | 1 | 1 | PIN, cotter, 1/16" x 1/2" |
| 11 | 043881 | 1 | 1 | SPRING, starter rod retracting (Effective with tractor #8235) |
| 12 | 087949 | 1 | 1 | BRACKET, cover supporting |
| 13 | 035221 | 1 | 1 | CAPSCREW, 1/2"NC x 1" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| 14 | 921912 | 1 | 1 | CLAMP, starter protecting cover (1-1/16" to 2" diam.) |
| 15 | 090722 | 1 | 1 | COVER, starter protecting |
| | 913146 | 2 | 2 | CAPSCREW, 3/8"NF x 1/2" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| 16 | 094480 | - | 1 | ROD, starter, upper (Effective with tractor #9027) |
| | 911048 | - | 1 | NUT, jam, 3/8"NF |
| | 628736 | - | 1 | YOKE, rod end, adjustable, 3/8"NF |
| | 078810 | - | 1 | PIN, yoke, 3/8" diam. (rear) |
| | 900942 | - | 1 | PIN, cotter, 3/32" x 5/8" |
| | 627451 | - | 1 | PIN, yoke, 5/16" diam. (front) |
| | 900970 | - | 1 | PIN, cotter, 1/16" x 1/2" |
| 17 | 094469 | - | 1 | BOLT, pivot, control lever (Effective with tractor #9027) |
| | 904208 | - | 1 | LOCKWASHER, 1/2" |
| | 911043 | - | 1 | NUT, 1/2"NF |
| 18 | 206887 | - | 4 | WASHER, spacing, control lever (Use as required) |
| 19 | 094474 | - | 1 | LEVER, starter control (Effective with tractor #9027) |
| 20 | 078620 | - | 1 | GRIP, control lever (Effective with tractor #9027) |
| 21 | ------ | - | - | REST, right foot (See FLOOR) |
| | 092783 | - | 1 | PLATE, mounting, starter control lever (For tractors prior to #9027 only)(Not illustrated) |




STARTER

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: See INSTRUMENTS for starter operating switch. |
| 1 | 096941 | 1 | MOTOR, starting ("Delco-Remy" #1109960. Order parts from local "United Motors" service agency) |
| 2 | 023755 | 3 | CAPSCREW, 5/8"NC x 2-1/4" |
| | 904209 | 3 | LOCKWASHER, 5/8" |
| 3 | 4304902 | 1 | ADAPTER, starting motor |
| 4 | 096653 | 1 | STRAP, starter to ground |




T-18156

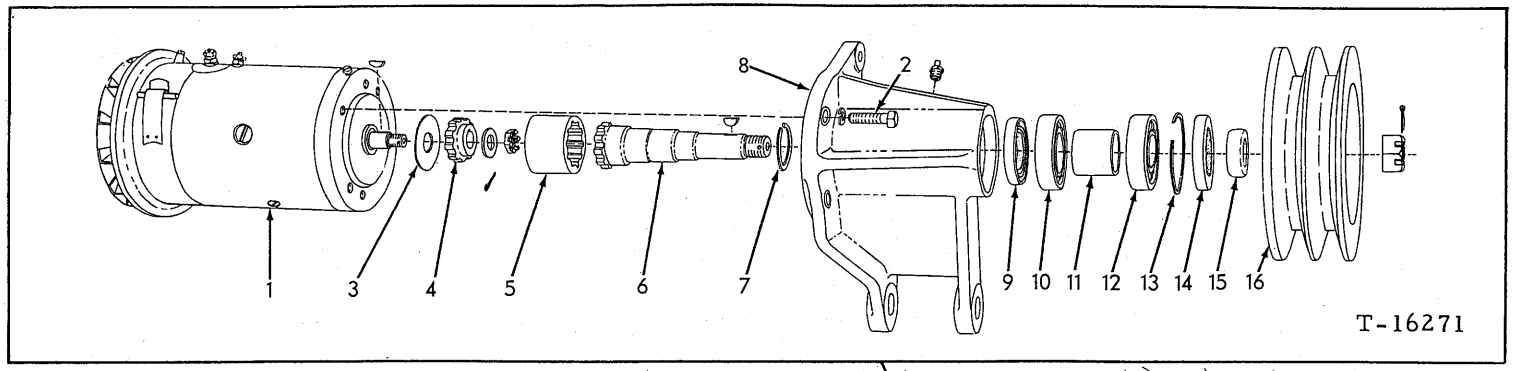
GENERATOR (First type)

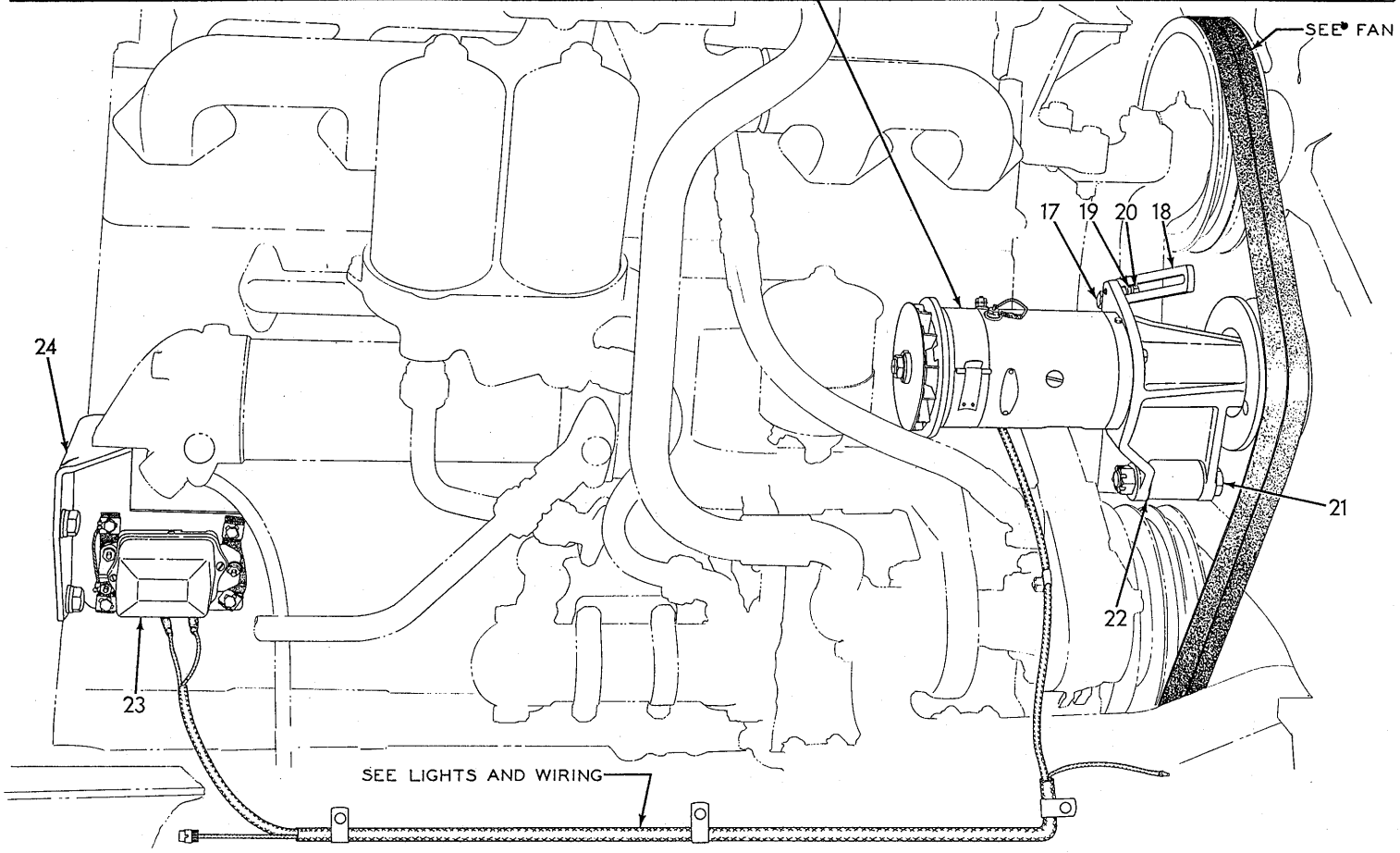
# GENERATOR

USAGE: Tractors prior to serial No. 9001

* Models HD21A, F
** Model HD21G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 082907 | 1 | 1 | GENERATOR (Includes key, lockwasher and nut. "Delco-Remy" #1105212. Was formerly #1105979)(Ventilated type. Standard equipment) |
| | 094466 | 1 | 1 | GENERATOR (Includes key, lockwasher and nut. "Delco-Remy" #1105995)(Sealed type. Special equipment) |
| 2 | 070224 | 2 | 2 | CAPSCREW, 7/16"NF x 1-1/2" |
| | 904207 | 2 | 2 | LOCKWASHER, 7/16" |
| | 911042 | 2 | 2 | NUT, 7/16"NF |
| | | | | NOTE: Order generator parts from local "United Motors" service agency |
| 3 | 078070 | 1 | 1 | FAN, cooling (Not used with 094466 GENERATOR) |
| 4 | 082870 | 1 | 1 | PULLEY, generator |
| 5 | 082879 | 1 | 1 | BELT, generator |
| 6 | 082822 | 1 | 1 | STRAP, belt adjustment |
| 7 | 054130 | 2 | 2 | CAPSCREW, 5/16"NC x 7/8" |
| | 904205 | 2 | 2 | LOCKWASHER, 5/16" |
| 8 | 092665 | 1 | 1 | WASHER, plain |
| 9 | 084070 | 1 | 1 | BRACKET, generator mounting |
| 10 | 081212 | 4 | 4 | CAPSCREW, 5/16"NC x 5-1/2" |
| 11 | 084072 | 2 | 2 | PLATE, capscrew locking |
| 12 | 084067 | 2 | 2 | STUD (1/2"NC x 4-7/8") |
| | 910244 | 2 | 2 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911028 | 2 | 2 | NUT, 1/2"NC |
| 13 | 084071 | 4 | 4 | SLEEVE, spacing, generator mounting bracket (3/8" I. D.) |
| 14 | 084066 | 2 | 2 | SLEEVE, spacing, generator mounting bracket (1/2"I. D.) |
| 15 | 184376 | 1 | 1 | REGULATOR, voltage and current (For use with standard GENERATOR 082907 only) |
| | 185984 | 1 | 1 | REGULATOR, voltage and current (For use with special GENERATOR 094466 only) |
| 16 | 054304 | 4 | - | CAPSCREW, 1/4"NC x 1-1/4" |
| | 912178 | - | 4 | CAPSCREW, 1/4"NF x 1-1/2" |
| | 904204 | 4 | 4 | LOCKWASHER, 1/4" |
| | 911040 | - | 4 | NUT, 1/4"NF |
| | | | | NOTE: Order regulator parts from local "United Motors" service agency |
| 17 | 088110 | 2 | - | CABLE, generator to regulator |
| 18 | ------ | - | 1 | BRACKET, regulator mounting (See WATER INLET MANIFOLD AND HEAT EXCHANGER) |
| 19 | ------ | - | 1 | HARNESS, wiring (See LIGHTS AND WIRING) |



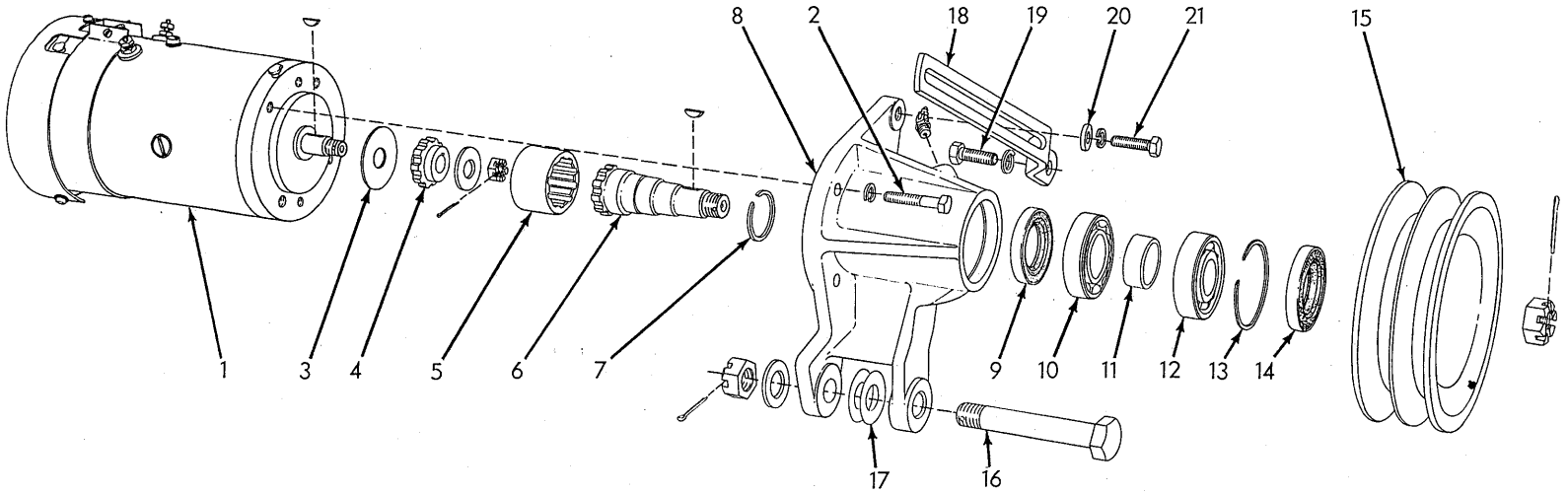



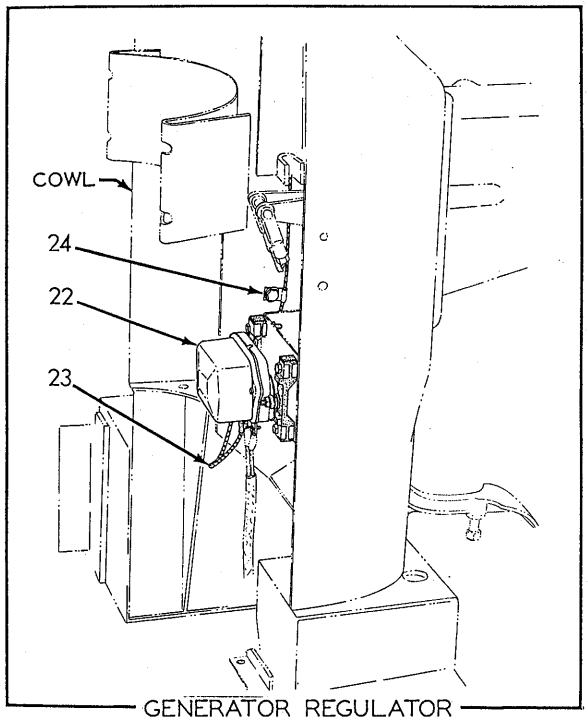

GENERATOR (Second type)

# GENERATOR

USAGE: Tractors serial No. 9001 thru No. 11000

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: See FAN for driving belts |
| 1 | ------ | 1 | GENERATOR (Includes KEY 905121)("Delco-Remy" #1105982. Order parts from local "United Motors" service agency)(Order GENERATOR 094625) |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 2 | 013058 | 4 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 3 | 067924 | 1 | WASHER, generator shaft |
| 4 | 067923 | 1 | PINION, generator shaft |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 913471 | 1 | NUT, jam, slotted, 1/2"NF |
| | 900801 | 1 | PIN, cotter, 3/32" x 3/4" |
| 5 | 067892 | 1 | SLEEVE, coupling |
| 6 | 066369 | 1 | SHAFT, generator drive |
| | 912331 | 1 | NUT, slotted, 3/4"NF |
| | 900807 | 1 | PIN, cotter, 1/8" x 1-1/4" |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 7 | 052225 | 1 | RING, snap, generator drive shaft |
| 8 | 083269 | 1 | HOUSING, generator drive |
| | 915274 | 1 | FITTING, lubricating, 45°, 1/8"NPT |
| 9 | 067914 | 1 | SEAL, grease, rear |
| 10 | 4253863 | 1 | BEARING, ball, rear |
| 11 | 067918 | 1 | SLEEVE, bearing spacing |
| 12 | 067916 | 1 | BEARING, ball, front |
| 13 | 050291 | 1 | RING, snap, bearing retaining |
| 14 | 067913 | 1 | SEAL, grease, front |
| 15 | 067919 | 1 | SPACER, pulley |
| 16 | 067932 | 1 | PULLEY |
| 17 | 041250 | 1 | CAPSCREW, generator strap (7/16"NC x 1-1/4") |
| | 904207 | 1 | LOCKWASHER, 7/16" |
| 18 | 083399 | 1 | STRAP, generator adjustment |
| 19 | 044973 | 1 | WASHER, plain, generator strap |
| 20 | 013058 | 1 | CAPSCREW, generator strap (3/8"NC x 1-1/4") |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 21 | 076522 | 1 | CAPSCREW, generator drive housing |
| | 910255 | 1 | WASHER, plain, SAE std., 3/4" |
| | 912331 | 1 | NUT, slotted, 3/4"NF |
| | 900808 | 1 | PIN, cotter, 1/8" x 1-1/2" |
| 22 | 083710 | 4 | SHIM, housing mounting (Use as required) |
| 23 | 184376 | 1 | REGULATOR, voltage and current (Order parts from local "United Motors" service agency) |
| | 912178 | 4 | CAPSCREW, 1/4"NF x 1-1/2" |
| | 904204 | 4 | LOCKWASHER, 1/4" |
| | 911040 | 4 | NUT, 1/4"NF |
| 24 | 4373747 | 1 | BRACKET, generator regulator mounting (Also supports Heat Exchanger) |
| | 903644 | 3 | CAPSCREW, 5/8"NC x 1-1/2" |
| | 904209 | 3 | LOCKWASHER, 5/8" |
| | 911100 | 3 | WASHER, plain, SAE std., 5/8" |




GENERATOR REGULATOR

T-19679

GENERATOR (Third type)

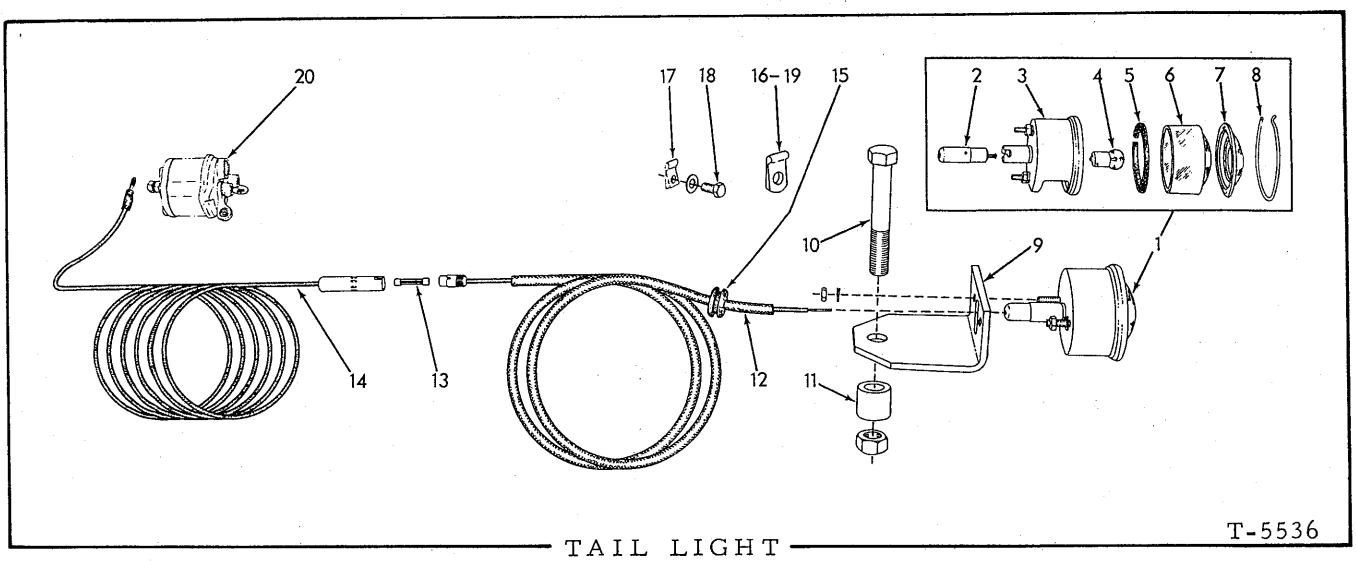
# GENERATOR

USAGE: Tractors serial No. 11001 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: See FAN for driving belts. |
| 1 | 094625 | 1 | GENERATOR (Includes KEY 905121)("Delco-Remy" #1105997. Order parts from local "United Motors" service agency) |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 2 | 013058 | 4 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| 3 | 067924 | 1 | WASHER, generator shaft |
| 4 | 067923 | 1 | PINION, generator shaft |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 913471 | 1 | NUT, jam, slotted, 1/2"NF |
| | 900801 | 1 | PIN, cotter, 3/32" x 3/4" |
| 5 | 096056 | 1 | SLEEVE, coupling |
| 6 | 096092 | 1 | SHAFT, generator drive |
| | 913472 | 1 | NUT, jam, slotted, 3/4"NF |
| | 900807 | 1 | PIN, cotter, 1/8" x 1-1/4" |
| | 905121 | 1 | KEY, #5 woodruff, 1/8" x 5/8" |
| 7 | 052225 | 1 | RING, snap, generator drive shaft |
| 8 | 096071 | 1 | HOUSING, generator drive |
| | 915274 | 1 | FITTING, lubricating, 45°, 1/8"NPT |
| 9 | 067914 | 1 | SEAL, grease, rear |
| 10 | 4253863 | 1 | BEARING, ball, rear |
| 11 | 096046 | 1 | SLEEVE, bearing spacing |
| 12 | 067916 | 1 | BEARING, ball, front |
| 13 | 050291 | 1 | RING, snap, bearing retaining |
| 14 | 067913 | 1 | SEAL, grease, front |
| 15 | 096093 | 1 | PULLEY |
| 16 | 076522 | 1 | CAPSCREW, generator drive housing |
| | 910255 | 1 | WASHER, plain, SAE std., 3/4" |
| | 912331 | 1 | NUT, slotted, 3/4"NF |
| | 900808 | 1 | PIN, cotter, 1/8" x 1-1/2" |
| 17 | 083710 | 4 | SHIM, housing mounting (Use as req'd) |
| 18 | 083399 | 1 | STRAP, generator adjustment |
| 19 | 041250 | 1 | CAPSCREW, generator strap (7/16"NC x 1-1/4") |
| | 904207 | 1 | LOCKWASHER, 7/16" |
| 20 | 044973 | 1 | WASHER, plain, generator strap |
| 21 | 013058 | 1 | CAPSCREW, generator strap (3/8"NC x 1-1/4") |
| | 904206 | 1 | LOCKWASHER, 3/8" |

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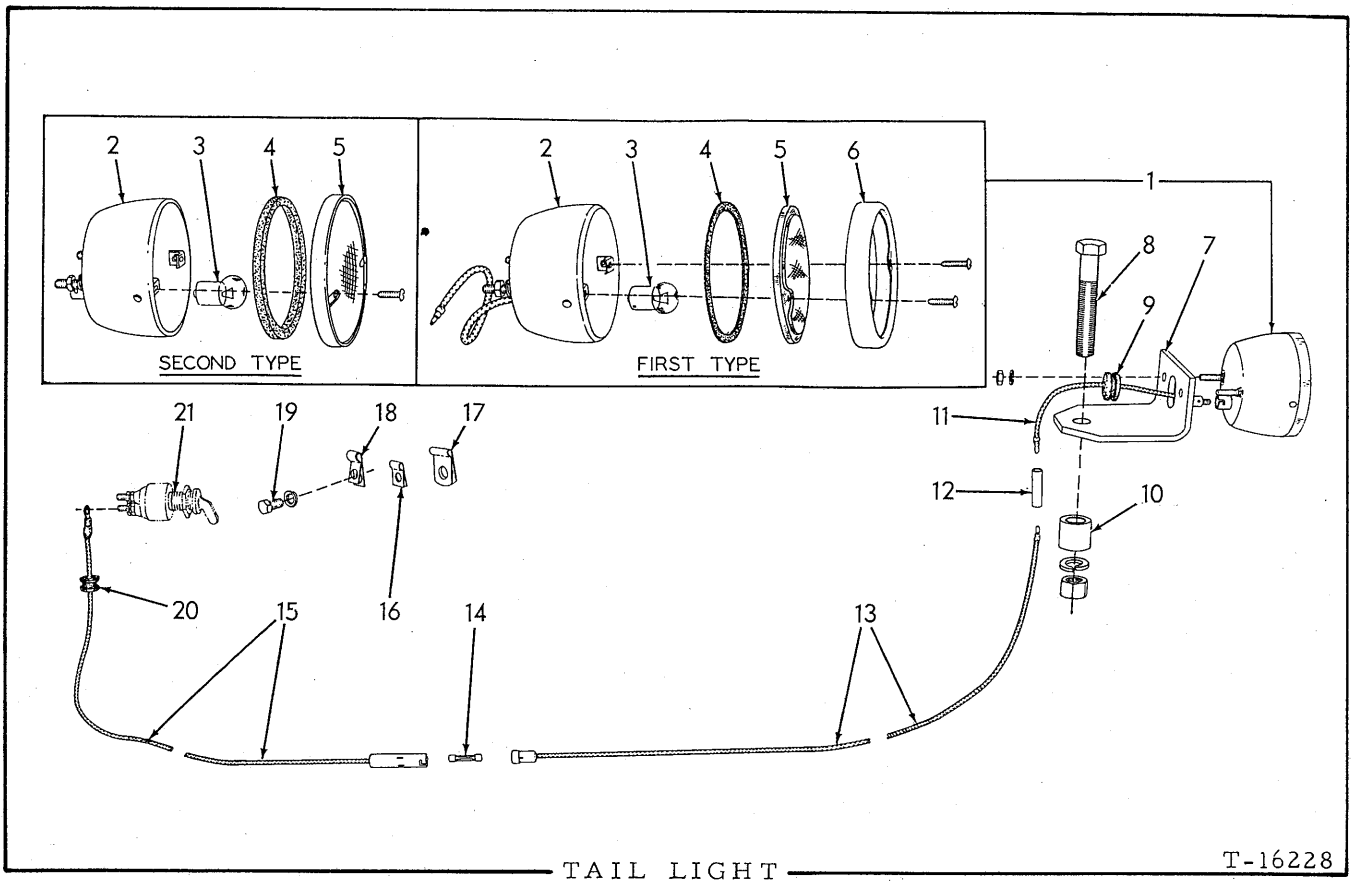
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 22 | 185984 | 1 | REGULATOR, voltage and current (Order parts from local "United Motors" service agency) |
| | 912178 | 4 | CAPSCREW, 1/4"NF x 1-1/2" (Models HD21A,F) |
| | 912177 | 4 | CAPSCREW, 1/4"NF x 1-1/4" (Model HD21G) |
| | 904204 | 4 | LOCKWASHER, 1/4" |
| | 911040 | 4 | NUT, 1/4"NF (Models HD21A,F) |
| 23 | 096619 | 1 | CABLE, regulator to ammeter and switch |
| 24 | 200479 | 1 | CLIP, supporting, regulator cable (short type)(Models HD21A,F) |
| | 012992 | 1 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 911115 | 2 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | NUT, 3/8"NF |
| | 073809 | 2 | CLIP, supporting, regulator cable (long type)(Model HD21G) |




TAIL LIGHT

USAGE: Special equipment prior to June 1956.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | LIGHT ASSEMBLY, tail (Consists of items 2 thru 8)(Order LIGHT ASSEMBLY 630147 and CABLE ASSEMBLY 630148) |
| | 904204 | 2 | LOCKWASHER, 1/4" |
| | 911024 | 2 | NUT, 1/4"NC |
| 2 | 047307 | 1 | PLUG, cable connecting |
| 3 | ------ | 1 | BODY (Not serviced separately) |
| 4 | 074452 | 1 | BULB, incandescent, single contact, 6 c.p., 24 volt |
| 5 | 043713 | 1 | GASKET, glass cup |
| 6 | 043716 | 1 | CUP (glass) |
| 7 | 034014 | 1 | LENS (red) |
| 8 | 212758 | 1 | RING, lens retaining |
| 9 | 067110 | 1 | BRACKET, mounting |
| 10 | 066862 | 1 | CAPSCREW, 5/8"NF x 4" |
| | 911044 | 1 | NUT, 5/8"NF |
| 11 | 067112 | 1 | BLOCK, spacing, mounting bracket |
| 12 | ------ | 1 | CABLE, rear section (50" long)(Order CABLE 089292) |
| 13 | 208960 | 1 | FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes |
| 14 | 053065 | 1 | CABLE, front section (122" long) |
| 15 | 036887 | 1 | GROMMET, cable protecting (For tractors with Cab) |
| 16 | 200479 | 3 | CLIP, front cable (3/16" diam., 13/32" bolt-hole) |
| 17 | 235794 | 2 | CLIP, rear cable (1/4" diam., 13/32" bolt-hole) |
| 18 | 035979 | 2 | CAPSCREW, 3/8"NF x 5/8" |
| | 911115 | 2 | WASHER, plain, SAE std., 3/8" |
| 19 | 044044 | 1 | CLIP, rear cable (1/4" diam., 17/32" bolt-hole) |
| 20 | ------ | 1 | SWITCH (See INSTRUMENTS) |




TAIL LIGHT

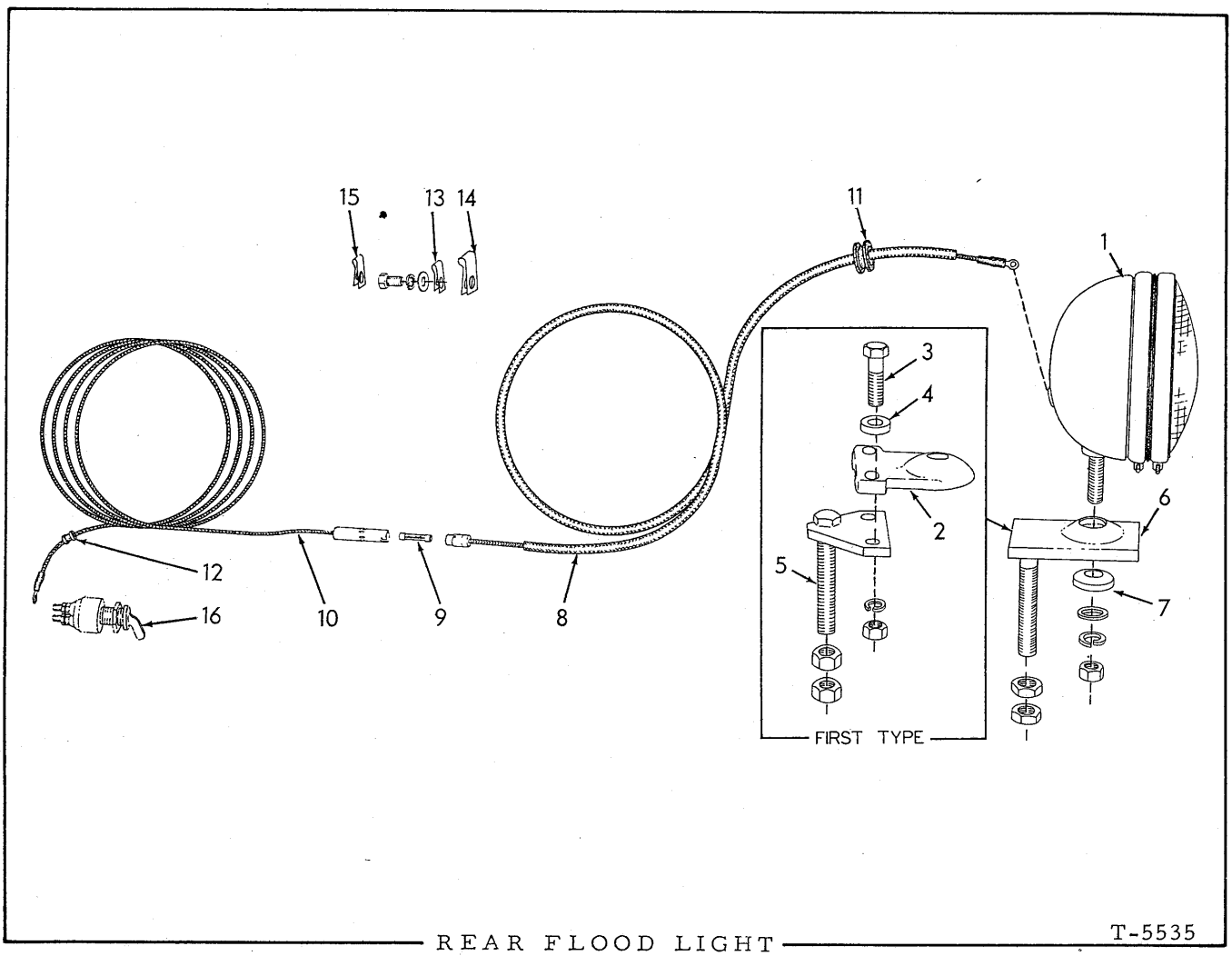
USAGE: Special equipment effective June 1956

* Used prior to December 1961
** Effective December 1961

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | - | LIGHT ASSEMBLY, tail (Consists of items 2 thru 6)(Order LIGHT ASSEMBLY 630147 and CABLE ASSEMBLY 630148) |
| | 630147 | - | 1 | LIGHT ASSEMBLY, tail (Consists of items 2 thru 5) |
| | 904204 | 2 | 2 | LOCKWASHER, 1/4" |
| | 911024 | 2 | 2 | NUT, 1/4"NC |
| 2 | ------ | 1 | 1 | BODY ASSEMBLY (Not serviced separately) |
| 3 | 074452 | 1 | 1 | BULB, incandescent, single contact, 6 c.p., 24 volt |
| 4 | 068399 | 1 | - | GASKET, tail light lens (1/16" thick) |
| | 629189 | - | 1 | GASKET, tail light lens (3/16" thick) |
| 5 | 068405 | 1 | - | LENS, tail light (3-1/2" O. D.) |
| | 629188 | - | 1 | LENS, tail light (3-11/16" O. D.) |
| | 917883 | - | 2 | SCREW, thread-cutting, rd-hd., #8 x 5/8" |
| 6 | 068404 | 1 | - | DOOR, tail light |
| | 917883 | 2 | - | SCREW, thread-cutting, rd-hd., #8 x 5/8" |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 7 | 067110 | 1 | 1 | BRACKET, tail light mounting |
| 8 | 066862 | 1 | 1 | CAPSCREW, 5/8"NF x 4" |
| | 904209 | 1 | 1 | LOCKWASHER, 5/8" |
| | 911044 | 1 | 1 | NUT, 5/8"NF |
| 9 | 036887 | 1 | 1 | GROMMET, cable protecting (For use with Cab) |
| 10 | 067112 | 1 | 1 | BLOCK, spacing, mounting bracket |
| 11 | 630148 | - | 1 | CABLE ASSEMBLY, rear section (Includes plug) |
| 12 | 048142 | 1 | 1 | CONNECTOR, cable |
| 13 | 089292 | 1 | 1 | CABLE, intermediate section (50" long) |
| 14 | 208960 | 1 | 1 | FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes |
| 15 | 053065 | 1 | 1 | CABLE, front section (122" long) |
| 16 | 200479 | 3 | 3 | CLIP, front cable (3/16" diam., 13/32" bolt-hole) |
| 17 | 044044 | 1 | - | CLIP, rear cable (1/4" diam., 17/32" bolt-hole)(Used prior to tractor #11001) |
| | 223502 | 1 | 1 | CLIP, rear cable (3/16" diam., 17/32" bolt-hole)(Effective with tractor #11001) |
| 18 | 235794 | 2 | - | CLIP, rear cable (1/4" diam., 17/32" bolt-hole)(Used prior to tractor #11001) |
| | 073809 | 3 | 3 | CLIP, rear cable (3/16" diam., 13/32" bolt-hole)(Effective with tractor #11001) |
| 19 | 035979 | 2 | 2 | CAPSCREW, 3/8"NF x 5/8" |
| | 904206 | 2 | 2 | LOCKWASHER, 3/8" |
| 20 | 023176 | 1 | 1 | GROMMET, cable protecting (Effective with tractor #11001) |
| 21 | ------ | 1 | 1 | SWITCH (See INSTRUMENTS) |



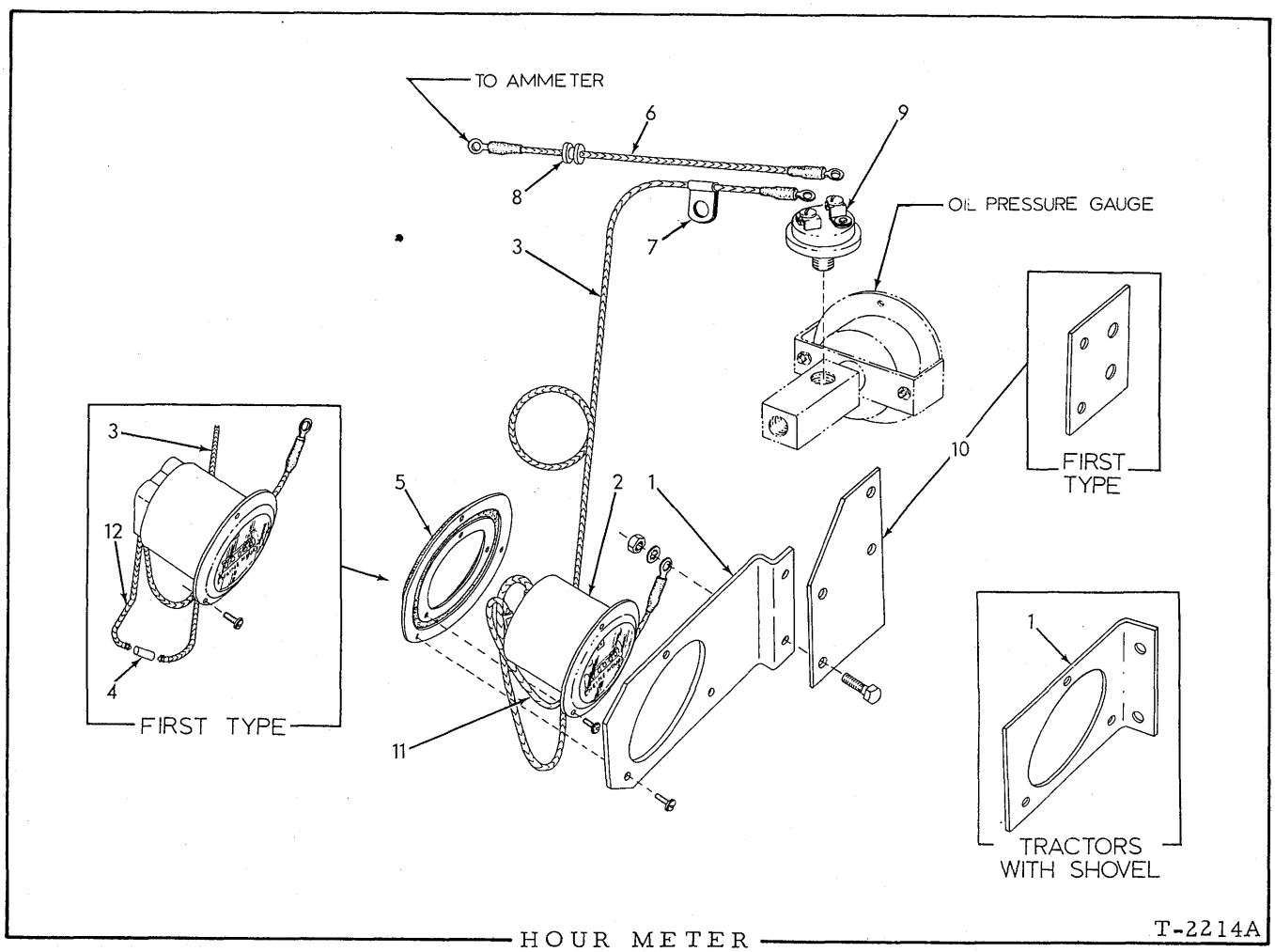

REAR FLOOD LIGHT T-5535

USAGE: Special equipment. Applicable to all tractors except those equipped with Tail Light.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | 074388 | 1 | LIGHT ASSEMBLY (See page 523 for parts)(Used prior to October 1958. Order 1 each LIGHT ASSEMBLY 638283, WASHER 075535, WASHER 900818, LOCKWASHER 904208 and NUT 911043) |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| | 911026 | 1 | NUT, 3/8"NC |
| 1 | 097030 | 1 | LIGHT ASSEMBLY (See page 526 for parts)(Effective October 1958. Original equipment. Order LIGHT ASSEMBLY 638283) |
| | 638283 | 1 | LIGHT ASSEMBLY (See page 527 for parts)(Service replacement) |
| | 900818 | 1 | WASHER, plain, U.S. std., 1/2" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | NUT, 1/2"NF |
| 2 | ------ | 1 | BRACKET, mounting (Used prior to July 1958. Order item 6) |
| 3 | 035067 | 2 | CAPSCREW, 1/2"NF x 2" |
| 4 | 064531 | 2 | WASHER, plain |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | NUT, 1/2"NF |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 5 | ------ | 1 | PLATE, mounting (Used prior to July 1958. Order item 6) |
| | 911044 | 2 | NUT, 5/8"NF |
| 6 | 094630 | 1 | BRACKET, mounting (Effective July 1958) |
| | 911044 | 2 | NUT, 5/8"NF |
| 7 | 053277 | 1 | WASHER, mounting (For LIGHT ASSEMBLY 074388 only) |
| | 075535 | 1 | WASHER, mounting (For LIGHT ASSEMBLIES 097030 and 638283 only) |
| 8 | 084238 | 1 | CABLE, rear section (57" long) |
| 9 | 208960 | 1 | FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes |
| 10 | 053065 | 1 | CABLE, front section (122" long) |
| 11 | 036887 | 1 | GROMMET, cable protecting (For tractors with Cab) |
| 12 | 023176 | 1 | GROMMET, cable protecting (Effective with tractor #11001) |
| 13 | 235794 | 2 | CLIP, cable supporting (1/4" diam., 13/32" bolt-hole)(Used prior to tractor #11001) |
| | 200479 | 2 | CLIP, cable supporting (3/16" diam., 13/32" bolt-hole)(Effective with tractor #11001) |
| | 035979 | 2 | CAPSCREW, 3/8"NF x 5/8" |
| | 904206 | 2 | LOCKWASHER, 3/8" |
| 14 | 044044 | 2 | CLIP, cable supporting (1/4" diam., 17/32" bolt-hole)(Used prior to tractor #11001) |
| | 223502 | 1 | CLIP, cable supporting (3/16" diam., 17/32" bolt-hole)(Effective with tractor #11001) |
| 15 | 200479 | 3 | CLIP, cable supporting (3/16" diam., 13/32" bolt-hole)(Used prior to tractor #11001) |
| | 073809 | 3 | CLIP, cable supporting (3/16" diam., 13/32" bolt-hole)(Effective with tractor #11001) |
| 16 | ------ | 1 | SWITCH (See INSTRUMENTS) |




HOUR METER

USAGE: Special equipment

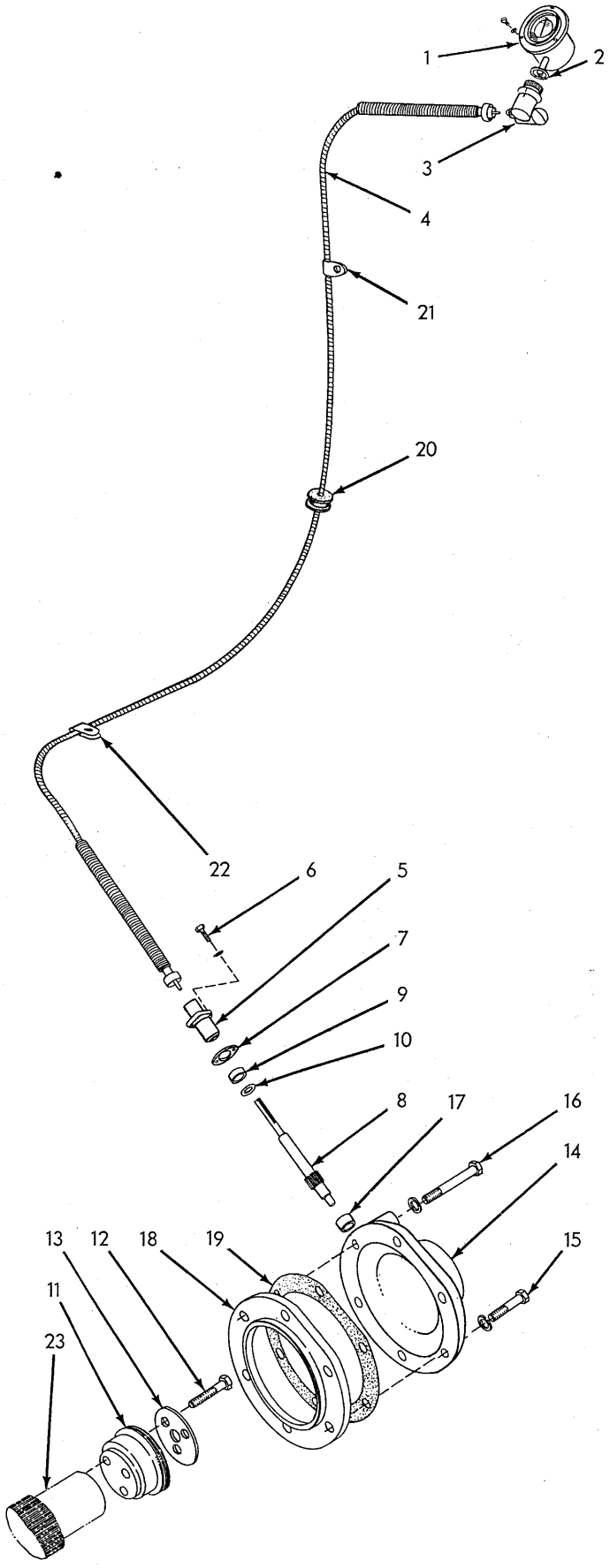
* Models HD21A, F
** Model HD21G

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 086947 | 1 | - | BRACKET, mounting |
| | 069317 | - | 1 | BRACKET, mounting |
| | 912789 | 2 | - | CAPSCREW, 1/4"NF x 3/4" |
| | 910874 | - | 2 | CAPSCREW, 1/4"NF x 1" |
| | 904204 | - | 2 | LOCKWASHER, 1/4" |
| | 909367 | 2 | - | LOCKWASHER, internal teeth, 1/4" |
| | 911040 | 2 | 2 | NUT, 1/4"NF |
| 2 | 650299 | 1 | 1 | METER, hour |
| | 918210 | 3 | 3 | SCREW, #6 x 1/2" (Includes lockwasher) |

NOTE: Meter carries manufacturer's warranty and in case of failure should be returned direct to John W. Hobbs Corporation, Springfield, Illinois for repairs

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 3 | 099219 | 1 | 1 | CABLE, meter to pressure switch (28" long)(Used prior to tractor #12351) |
| | 630626 | 1 | 1 | CABLE, meter to pressure switch (34" long)(Effective with tractor #12351) |
| | 629633 | - | 1 | CABLE, meter to pressure switch (14" long)(Used on tractors #12106 thru #12350) |
| | 630740 | - | 1 | CABLE, meter to pressure switch (20" long, spade terminals) (Effective with tractor #12351) |
| 4 | 048142 | 1 | 1 | CONNECTOR, meter cable (Used prior to tractor #12351) |
| 5 | 066467 | 1 | 1 | DAMPER, vibration |
| | 918210 | 3 | 3 | SCREW, #6 x 1/2" (Includes lockwasher) |
| 6 | 605808 | 1 | 1 | CABLE, pressure switch to ammeter (10" long) |
| 7 | 223502 | 1 | - | CLIP, cable supporting (3/16" diam., 17/32" bolt-hole) |
| | 238136 | - | 1 | CLIP, cable supporting (3/16" diam., 9/32" bolt-hole)(Effective with tractor #12106) |
| 8 | 083987 | - | 1 | GROMMET, cable protecting (Used prior to tractor #12106) |
| 9 | 050288 | 1 | 1 | SWITCH, pressure |
| 10 | 085571 | 1 | - | PLATE, extension (Used prior to tractor #11001) } Used only with ENGINE SIDE SCREENS |
| | 098126 | 1 | - | PLATE, extension (Effective with tractor #11001) } Used only with ENGINE SIDE SCREENS |
| 11 | 630917 | 1 | 1 | CABLE, meter to ground (8" long)(Effective with tractor #12351) |
| 12 | 631639 | 1 | 1 | CABLE, meter connecting (7-1/2" long)(Used only with item 4 when replacing first type meter with late type) |



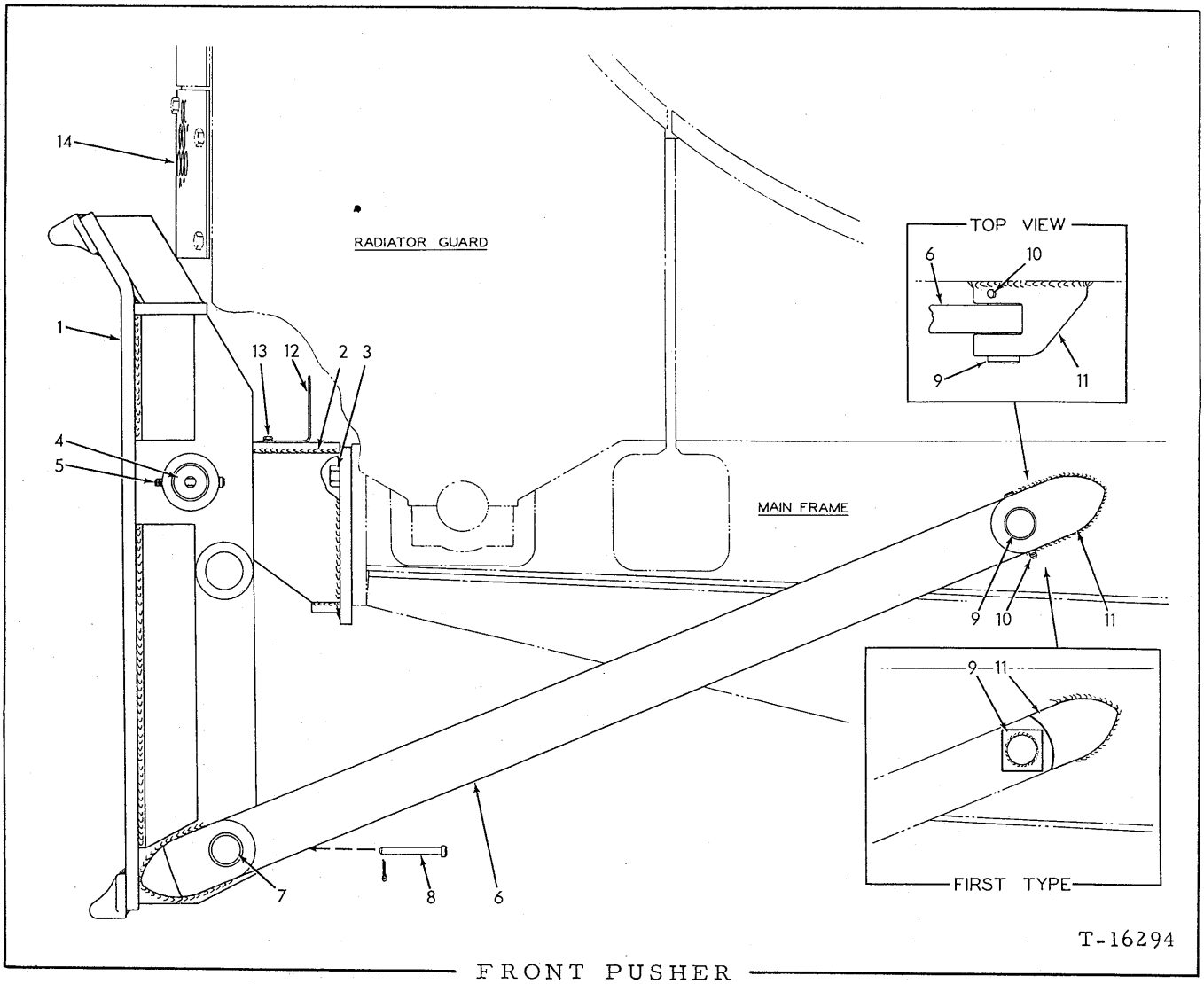

T-5538

ODOMETER

# ODOMETER

USAGE: Special equipment. Registers distance traveled. Used with standard transmission on Model HD21A only.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | ODOMETER (Registers miles)(Discontinued) |
| | 057784 | 1 | ODOMETER (Registers kilometers) |
| | 918210 | 3 | SCREW, thread-cutting, #6 x 1/2" (Includes lockwasher) |
| 2 | 630785 | 1 | WASHER, spacing |
| 3 | 061633 | 1 | JOINT ASSEMBLY (Serviced only as a unit) |
| 4 | 083035 | 1 | SHAFT, flexible (Serviced only as a unit) |
| 5 | 061640 | 1 | SLEEVE, drive housing |
| 6 | 045312 | 2 | CAPSCREW, 5/16"NC x 3/4" |
| | 904205 | 2 | LOCKWASHER, 5/16" |
| 7 | 061632 | 1 | GASKET, drive housing sleeve |
| 8 | 061636 | 1 | GEAR AND SHAFT, driven |
| 9 | 047661 | 1 | PACKING, driven gear shaft |
| 10 | 047672 | 1 | WASHER, driven gear shaft packing |
| 11 | 083036 | 1 | GEAR, driving |
| 12 | 035892 | 3 | CAPSCREW, 1/2"NF x 2-1/2" |
| 13 | 052244 | 1 | WASHER, capscrew locking |
| 14 | 061630 | 1 | HOUSING ASSEMBLY, drive (Includes item 17)(Replaces standard RETAINER 082186) |
| 15 | 035712 | 3 | CAPSCREW, 1/2"NC x 2-1/4" |
| 16 | 031798 | 3 | CAPSCREW, 1/2"NC x 4-1/4" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 17 | 064211 | 1 | BUSHING, drive housing |
| 18 | 083034 | 1 | SPACER, drive housing |
| 19 | 083033 | 1 | GASKET, drive housing |
| 20 | 047674 | 1 | GROMMET, flexible shaft (rubber) |
| 21 | 033043 | 1 | CLIP, flexible shaft (7/16" diam., 13/32" bolt-hole) |
| 22 | 034152 | 1 | CLIP, flexible shaft (7/16" diam., 17/32" bolt-hole) |
| 23 | ------ | 1 | SHAFT, pinion (See TRANSMISSION) |




FRONT PUSHER

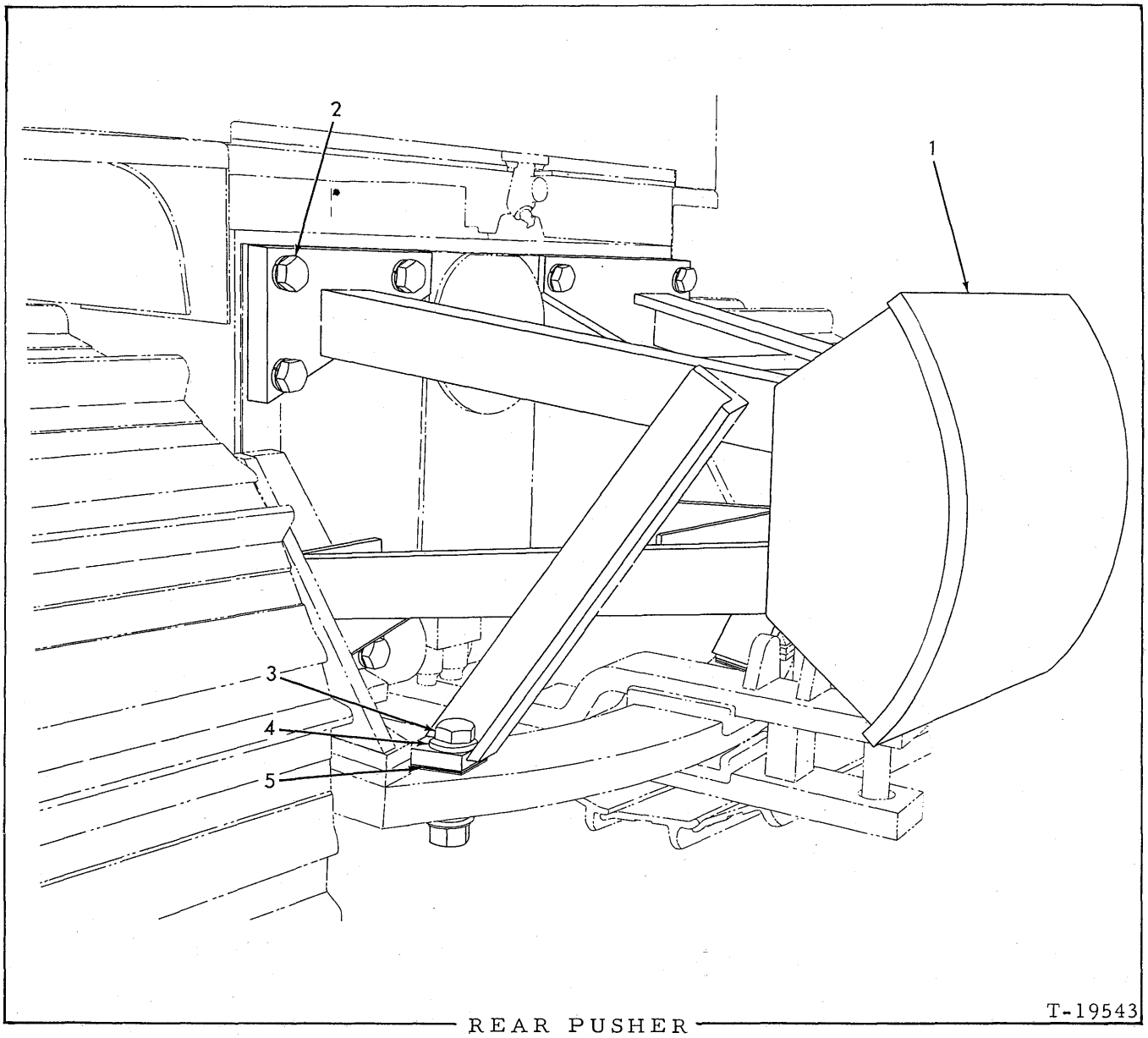
USAGE: Special equipment. Applicable to Model HD21A except when equipped with Hydraulic Dozer.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 079886 | 1 | PUSHER |
| 2 | 085238 | 1 | BRACKET, supporting |
| 3 | 031055 | 6 | CAPSCREW, 1"NF x 3-3/4" |
| | 910916 | 6 | LOCKWASHER, 1" |
| | 911047 | 6 | NUT, 1"NF |
| 4 | 078497 | 2 | PIN, pusher mounting |
| 5 | 078508 | 2 | PIN, retaining, pusher mounting pin |
| | 900806 | 2 | PIN, cotter, 1/8" x 1" |
| 6 | 085289 | 2 | STRUT, bracing |
| 7 | 080043 | 2 | PIN, bracing strut, front |
| 8 | 080952 | 2 | PIN, retaining, bracing strut front pin |
| | 900806 | 2 | PIN, cotter, 1/8" x 1" |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 9 | 079848 | 2 | PIN, bracing strut, rear (Used prior to tractor #7056) (See MAIN FRAME for standard pin) |
| | 900825 | 2 | WASHER, plain, U.S. std., 1-1/2" |
| | 911058 | 2 | NUT, castle, 1-1/2"NF |
| | 901345 | 2 | PIN, cotter, 1/4" x 2-1/2" |
| | 080043 | 2 | PIN, bracing strut, rear (Effective with tractor #7056) |
| 10 | 080952 | 2 | PIN, retaining, bracing strut rear pin (Effective with tractor #7056) |
| | 900806 | 2 | PIN, cotter, 1/8" x 1" |
| 11 | 086603 | 2 | LUG, strut bracing (Requires welding to main frame) (Used prior to tractor #7056) |
| | 081291 | 2 | LUG, strut attachment (Requires welding to main frame) (Effective with tractor #7056) |
| 12 | 085271 | 1 | BAFFLE, air (See RADIATOR GUARD for standard Baffle) |
| 13 | 035167 | 5 | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 5 | LOCKWASHER, 3/8" |
| 14 | 085364 | 1 | PLATE, radiator guard front closure (5 bolt-hole)(Used prior to tractor #7775 when equipped with standard radiator guard) |
| | 088385 | 1 | PLATE, radiator guard front closure (6 bolt-holes, upper corners rounded)(Used on tractors #7775 thru #9000 when equipped with standard radiator guard; Used prior to tractor #9142 when equipped with cable radiator guard) |
| | 093940 | 1 | PLATE, radiator guard front closure (6 bolt-holes, upper corners square)(Effective with tractor #9001 when equipped with standard radiator guard; Effective with tractor #9142 when equipped with cable radiator guard) |

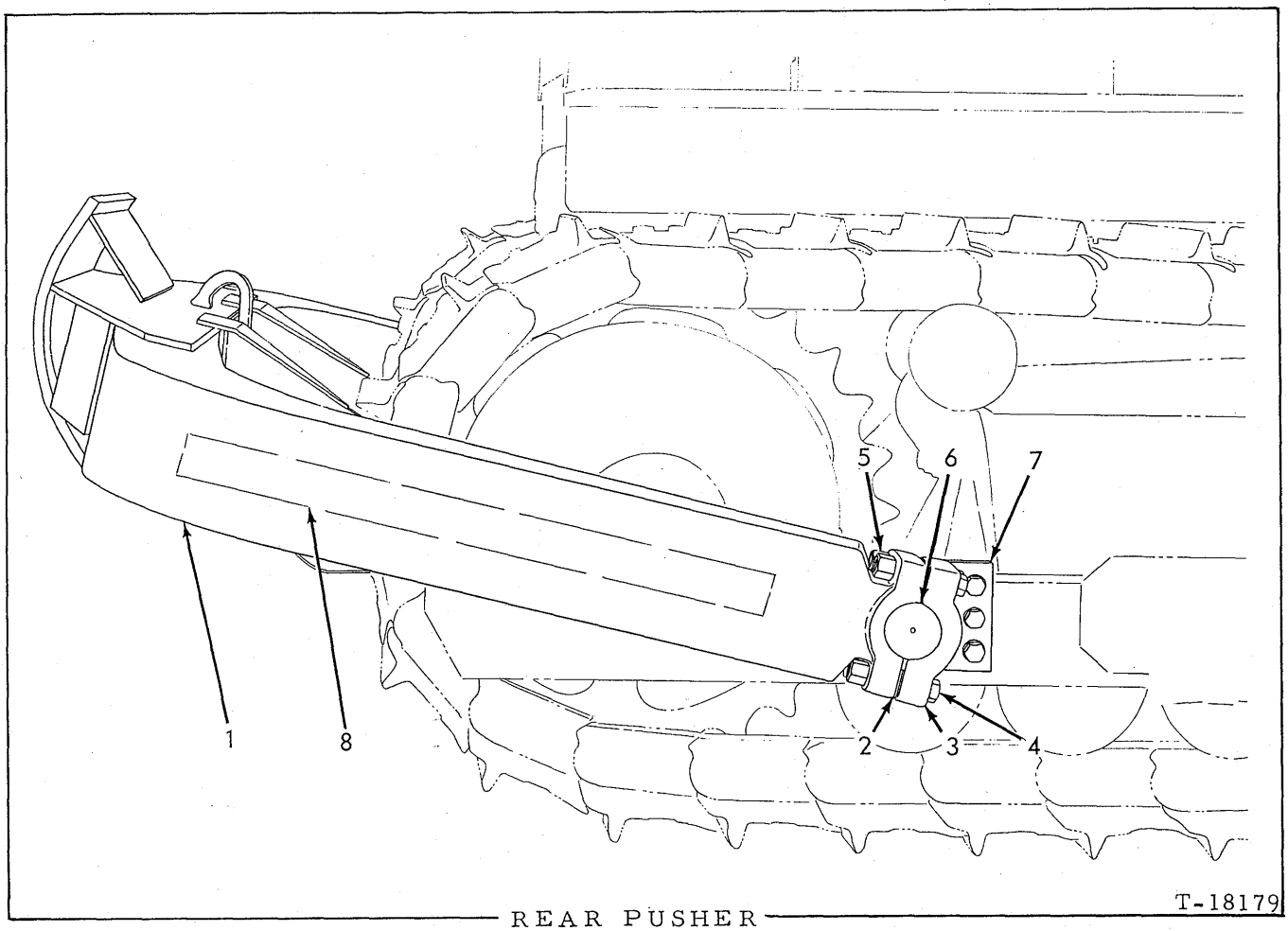
NOTE: See RADIATOR GUARD for standard plates that are replaced by item 14.




REAR PUSHER

USAGE: Special equipment. For use only on Model HD21A tractors not equipped with dozer. See page 565 for optional design.

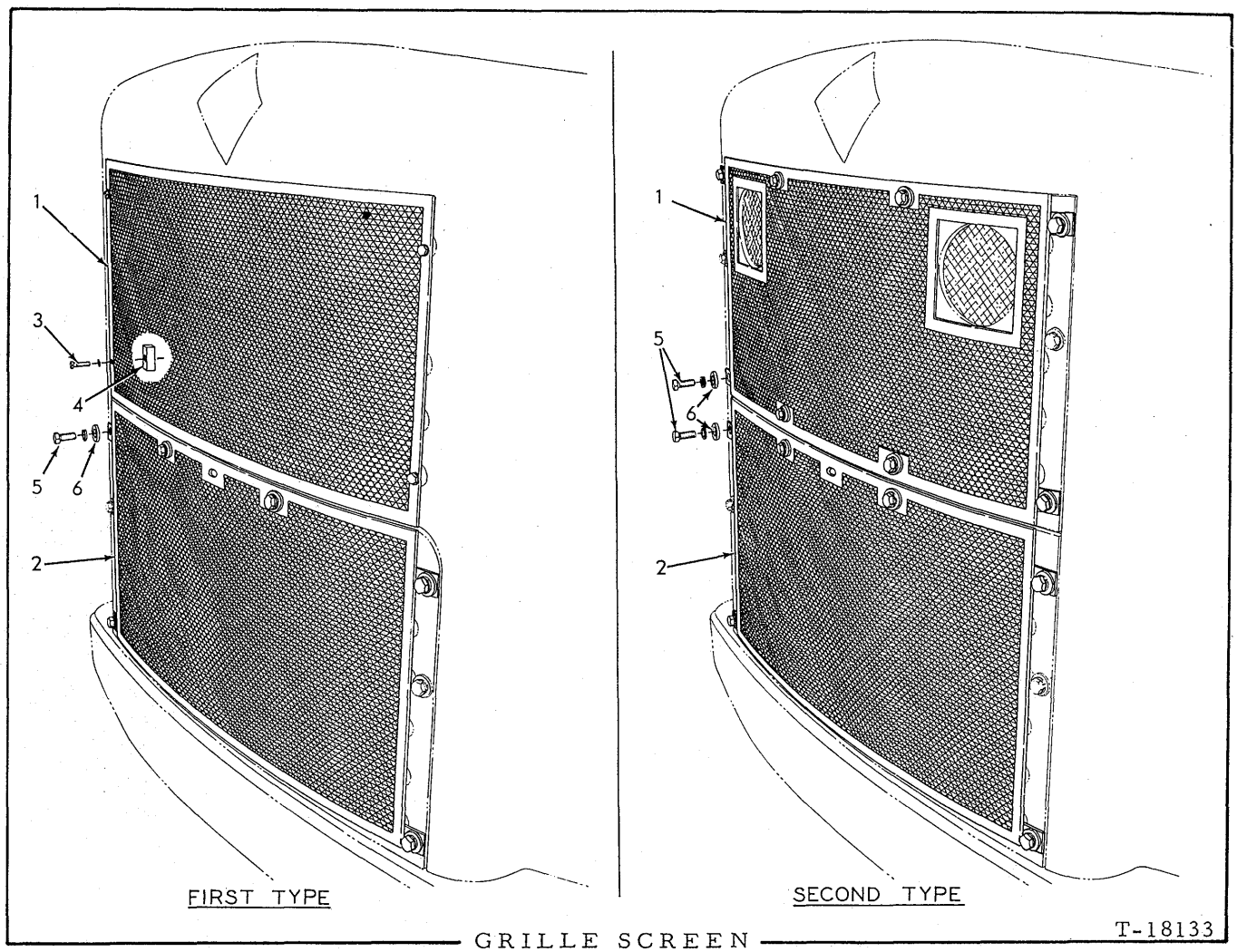
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 094610 | 1 | PUSHER, rear |
| 2 | 053251 | 10 | CAPSCREW, 1-1/4"NF x 4-1/2" |
| 3 | 052077 | 2 | CAPSCREW, 1-1/4"NF x 6" |
| | 904210 | 12 | LOCKWASHER, 1-1/4" |
| 4 | 075420 | 4 | WASHER, plain |
| | 913097 | 2 | NUT, 1-1/4"NF |
| 5 | 094622 | 8 | SHIM, rear pusher (Use as req'd) |




REAR PUSHER

USAGE: Special equipment. For use only on Model HD21A tractors equipped with dozer.
See page 564 for optional design.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 617941 | 1 | PUSHER, rear |
| 2 | 615912 | 24 | SHIM, pusher cap (Use as req'd) |
| 3 | 617069 | 2 | CAP, pusher |
| 4 | 077196 | 8 | CAPSCREW, 1"NF x 5-3/4" |
| 5 | 600236 | 8 | NUT, high, 1"NF |
| 6 | 617921 | 2 | TRUNNION |
| | 916372 | 12 | CAPSCREW, 1"NF x 2-1/2" |
| | 910916 | 12 | LOCKWASHER, 1" |
| 7 | 614585 | 2 | PLATE, trunnion mounting (Requires welding to truck frame) |
| 8 | ------ | - | TRANSFER (See PAINTING AND MARKING) |

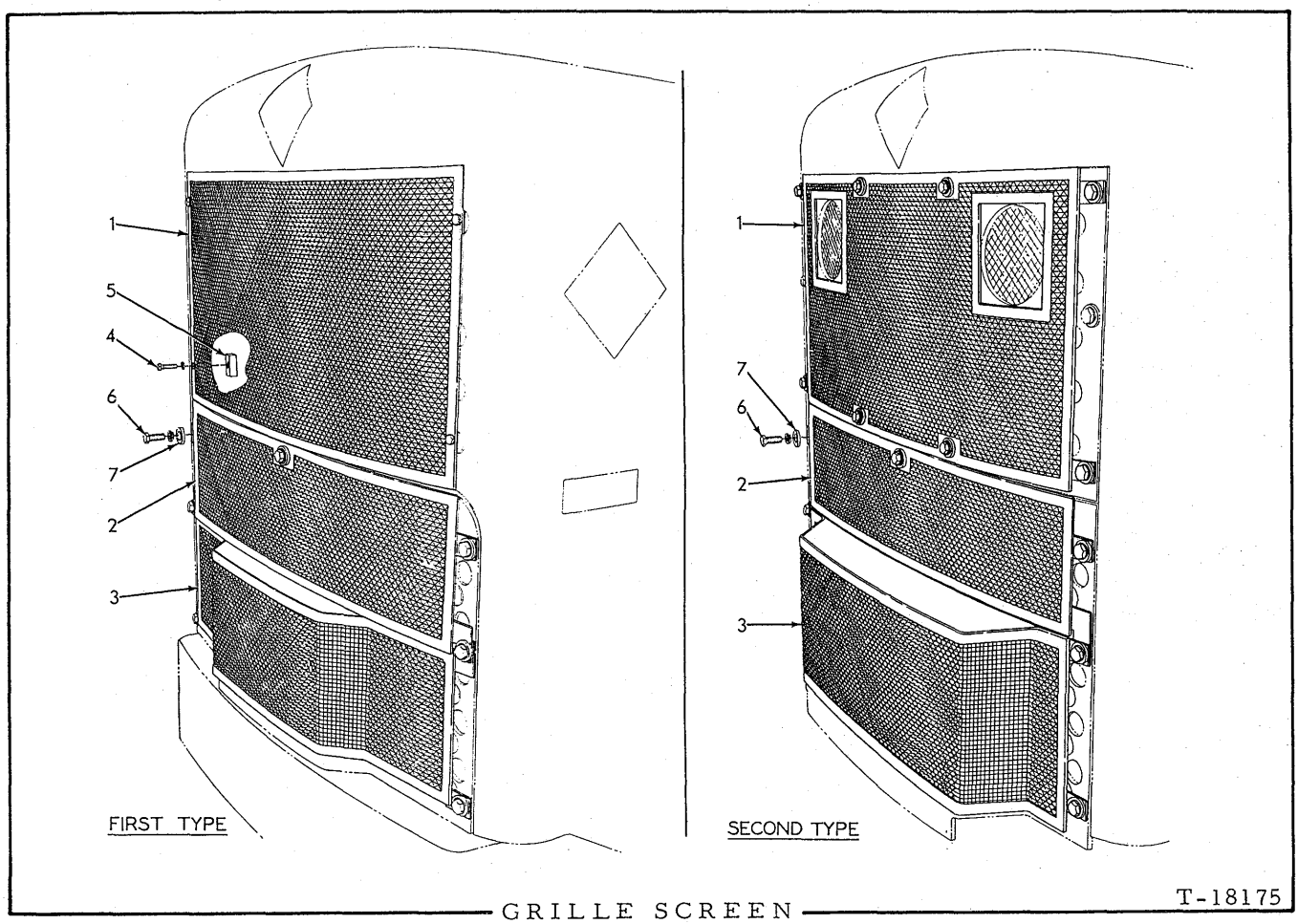



GRILLE SCREEN

USAGE: Special equipment. Applicable to tractors equipped with Standard Radiator Guard. See pages 567 and 568 for other units.

* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 087923 | 1 | - | SCREEN, upper section |
| | 093915 | - | 1 | SCREEN, upper section |
| 2 | 087924 | 1 | 1 | SCREEN, lower section |
| 3 | 203188 | 4 | - | CAPSCREW, upper screen attaching (3/8"NF x 1-1/2") |
| | 904206 | 4 | - | LOCKWASHER, 3/8" |
| 4 | 087849 | 4 | - | BLOCK, screen attaching capscrew (3/8"NF thread) |
| 5 | 035229 | 6 | 14 | CAPSCREW, screen attaching (5/8"NF x 2")(Early units) |
| | 071113 | - | 14 | CAPSCREW, screen attaching (5/8"NC x 2")(Late units) |
| | 904209 | 6 | 14 | LOCKWASHER, 5/8" |
| 6 | 064810 | 6 | 14 | WASHER, plain |



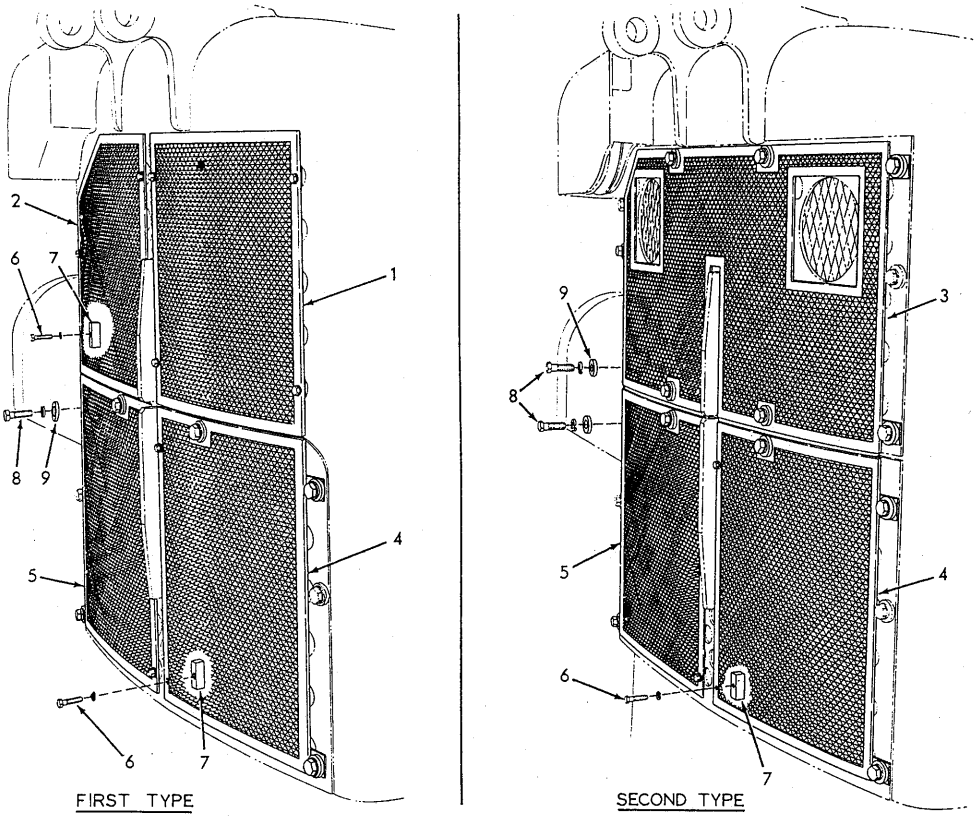

GRILLE SCREEN

T-18175

USAGE: Special equipment. Applicable to tractors equipped with Hydraulic Radiator Guard. See pages 566 and 568 for other units.

* Used prior to tractor serial No. 9001
** Effective with tractor serial No. 9001

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 087923 | 1 | - | SCREEN, upper section |
| | 093915 | - | 1 | SCREEN, upper section |
| 2 | 088278 | 1 | - | SCREEN, lower section, upper half |
| | 093852 | - | 1 | SCREEN, lower section, upper half |
| 3 | 088330 | 1 | - | SCREEN, lower section, lower half |
| | 093894 | - | 1 | SCREEN, lower section, lower half |
| 4 | 203188 | 4 | - | CAPSCREW, upper screen attaching (3/8"NF x 1-1/2") |
| | 904206 | 4 | - | LOCKWASHER, 3/8" |
| 5 | 087849 | 4 | - | BLOCK, screen attaching, capscrews (3/8"NF thread) |
| 6 | 035229 | 7 | 15 | CAPSCREW, screen attaching (5/8"NF x 2")(Early units) |
| | 071113 | - | 15 | CAPSCREW, screen attaching (5/8"NC x 2")(Late units) |
| | 904209 | 7 | 15 | LOCKWASHER, 5/8" |
| 7 | 064810 | 7 | 15 | WASHER, plain |

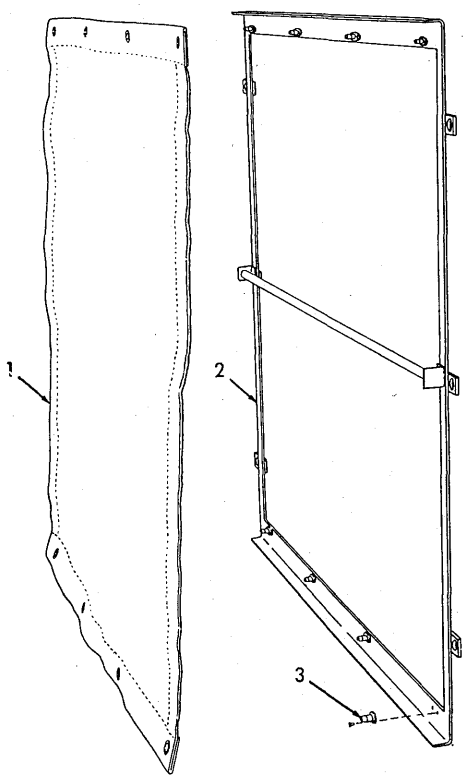



GRILLE SCREEN T-18174

USAGE: Special equipment. Applicable to tractors equipped with Cable Radiator Guard. See pages 566 and 567 for other units.

* Used prior to tractor serial No. 9143
** Effective with tractor serial No. 9143

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 088255 | 1 | - | SCREEN, upper section, left |
| 2 | 088256 | 1 | - | SCREEN, upper section, right |
| 3 | 093593 | - | 1 | SCREEN, upper section |
| 4 | 088253 | 1 | 1 | SCREEN, lower section, left (Used with rear-mounted cable control unit) |
| | 098055 | - | 1 | SCREEN, lower section, left (Not illustrated)(Used with front-mounted cable control unit) |
| 5 | 088254 | 1 | 1 | SCREEN, lower section, right (Used with rear-mounted cable control unit) |
| | 098056 | - | 1 | SCREEN, lower section, right (Not illustrated)(Used with front-mounted cable control unit) |
| 6 | 203188 | 12 | 4 | CAPSCREW, screen attaching (3/8"NF x 1-1/2") |
| | 904206 | 12 | 4 | LOCKWASHER, 3/8" |
| 7 | 087849 | 12 | 4 | BLOCK, screen attaching capscrew (3/8"NF thread) |
| 8 | 035229 | 6 | 14 | CAPSCREW, screen attaching (5/8"NF x 2")(Early units) |
| | 071113 | - | 14 | CAPSCREW, screen attaching (5/8"NC x 2")(Late units) |
| | 904209 | 6 | 14 | LOCKWASHER, 5/8" |
| 9 | 064810 | 6 | 14 | WASHER, plain |

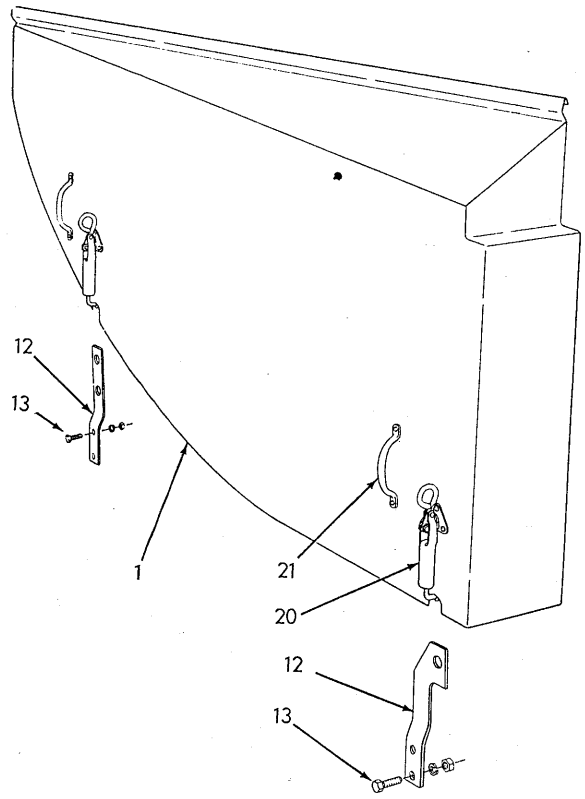



T-18170

RADIATOR CURTAIN

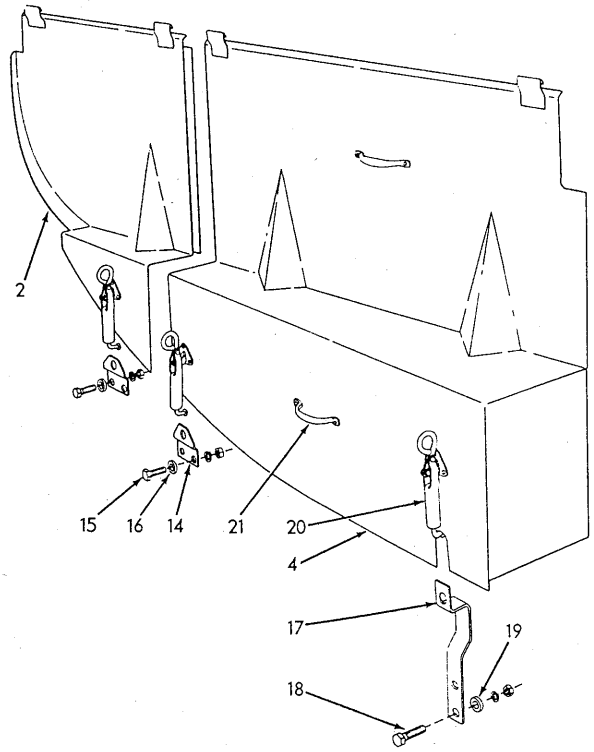
USAGE: Special equipment. Cannot be used on tractors with push-type fan.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 083008 | 1 | CURTAIN, radiator |
| 2 | 083030 | 1 | FRAME ASSEMBLY, curtain attaching (Includes item 3) |
| 3 | 066662 | 8 | FASTENER, curtain |
| | 912839 | 16 | RIVET, ctsk-hd., 1/8" x 1/4" |




FIRST TYPE

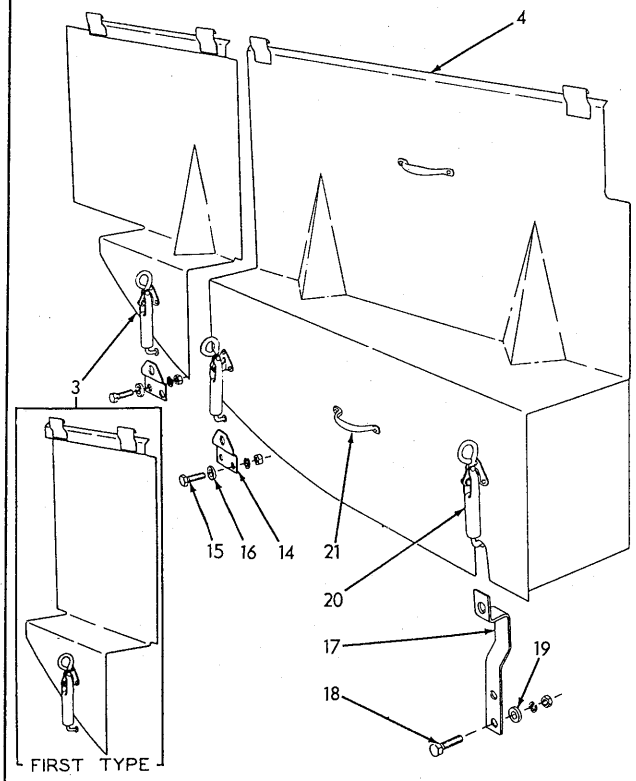
T-18158




SECOND TYPE

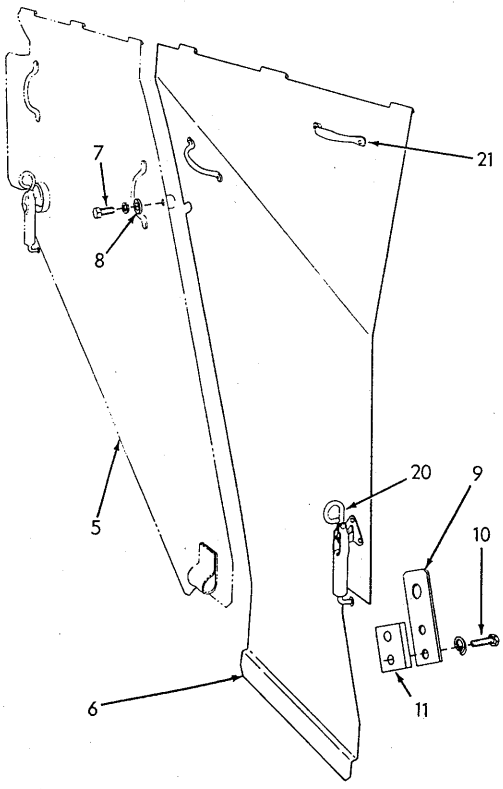
T-18159

STANDARD AND CABLE UNITS




HYDRAULIC UNITS

T-18160




MODEL HD21G

T-18161

HOOD SIDE PLATES

# HOOD SIDE PLATES

USAGE: Special equipment.

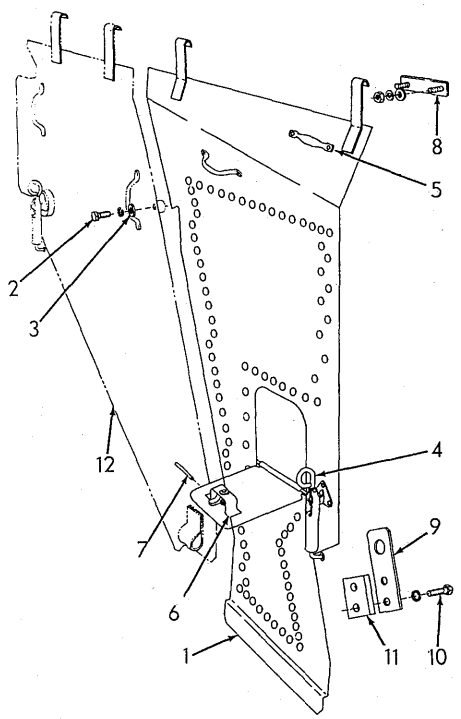
* Model HD21A tractors prior to November 15, 1960 equipped with standard or cable radiator guard.
** Model HD21A tractors effective November 15, 1960 equipped with standard or cable radiator guard.
*** Model HD21A tractors equipped with hydraulic radiator guard.
**** Model HD21G tractors prior to serial No. 12374, excluding No. 11817. See page 573 for later design.

| ITEM | PART NO. | QUANTITY * | ** | *** | **** | DESCRIPTION |
|---|---|---|---|---|---|---|
| 1 | 083003 | 1 | - | - | - | PLATE ASSEMBLY, left side (Includes items 20 and 21) |
| | 083004 | 1 | - | - | - | PLATE ASSEMBLY, right side (Includes items 20 and 21) |
| 2 | 091879 | - | 1 | - | - | PLATE ASSEMBLY, front, left side (Includes item 20) |
| | 091880 | - | 1 | - | - | PLATE ASSEMBLY, front, right side (Includes item 20) |
| 3 | 091801 | - | - | 1 | - | PLATE ASSEMBLY, front, left side (Includes item 20)(Used prior to tractor #9001) |
| | 091791 | - | - | 1 | - | PLATE ASSEMBLY, front, left side (Includes item 20)(Effective with tractor #9001) |
| | 091802 | - | - | 1 | - | PLATE ASSEMBLY, front, right side (Includes item 20)(Used prior to tractor #9001) |
| | 091792 | - | - | 1 | - | PLATE ASSEMBLY, front, right side (Includes item 20)(Effective with tractor #9001) |
| 4 | 091793 | - | 1 | 1 | - | PLATE ASSEMBLY, rear, left side (Includes items 20 and 21) |
| | 091794 | - | 1 | 1 | - | PLATE ASSEMBLY, rear, right side (Includes items 20 and 21) |
| 5 | ------ | - | - | - | 2 | PLATE ASSEMBLY (See HOOD) |
| 6 | 089847 | - | - | - | 1 | PLATE ASSEMBLY, left side (Includes items 20 and 21) |
| | 089848 | - | - | - | 1 | PLATE ASSEMBLY, right side (Includes items 20 and 21) |
| 7 | 035061 | - | - | - | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | - | - | - | 2 | LOCKWASHER, 1/2" |
| 8 | 064531 | - | - | - | 2 | WASHER, plain |
| 9 | 077228 | - | - | - | 2 | PLATE, latching |
| 10 | 035073 | - | - | - | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | - | - | - | 4 | LOCKWASHER, 1/2" |

(Continued)

## HOOD SIDE PLATES (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | **** | DESCRIPTION |
|---|---|---|---|---|---|---|
| 11 | 089871 | - | - | - | 2 | BLOCK, spacing, latching plate |
| | 085372 | 4 | - | - | - | STRAP, latching (2 less used effective August 1960) |
| 12 | 097057 | 1 | - | - | - | STRAP, latching, right side (rear) } Effective August 1960 |
| | 097058 | 1 | - | - | - | STRAP, latching, left side (rear) } Effective August 1960 |
| 13 | 035167 | 8 | - | - | - | CAPSCREW, 3/8"NF x 7/8" |
| | 904206 | 8 | - | - | - | LOCKWASHER, 3/8" |
| | 911041 | 8 | - | - | - | NUT, 3/8"NF |
| 14 | 091805 | - | 4 | 4 | - | BRACKET, latching |
| 15 | 035018 | - | 8 | 8 | - | CAPSCREW, 1/2"NF x 1-1/2" |
| 16 | 064531 | - | 8 | 8 | - | WASHER, plain |
| | 904208 | - | 8 | 8 | - | LOCKWASHER, 1/2" |
| | 911043 | - | 8 | 8 | - | NUT, 1/2"NF |
| 17 | 091790 | - | 2 | 2 | - | STRAP, latching |
| 18 | 035018 | - | 4 | 4 | - | CAPSCREW, 1/2"NF x 1-1/2" |
| 19 | 064531 | - | 4 | 4 | - | WASHER, plain |
| | 904208 | - | 4 | 4 | - | LOCKWASHER, 1/2" |
| | 911043 | - | 4 | 4 | - | NUT, 1/2"NF |
| 20 | 033060 | 4 | 6 | 6 | 2 | FASTENER |
| | 900764 | 12 | 18 | 18 | 6 | RIVET, fl-hd., 3/16" x 1/2" |
| 21 | 032834 | 4 | 4 | 4 | 4 | HANDLE, lifting |
| | 900764 | 8 | 8 | 8 | 8 | RIVET, fl-hd., 3/16" x 1/2" |

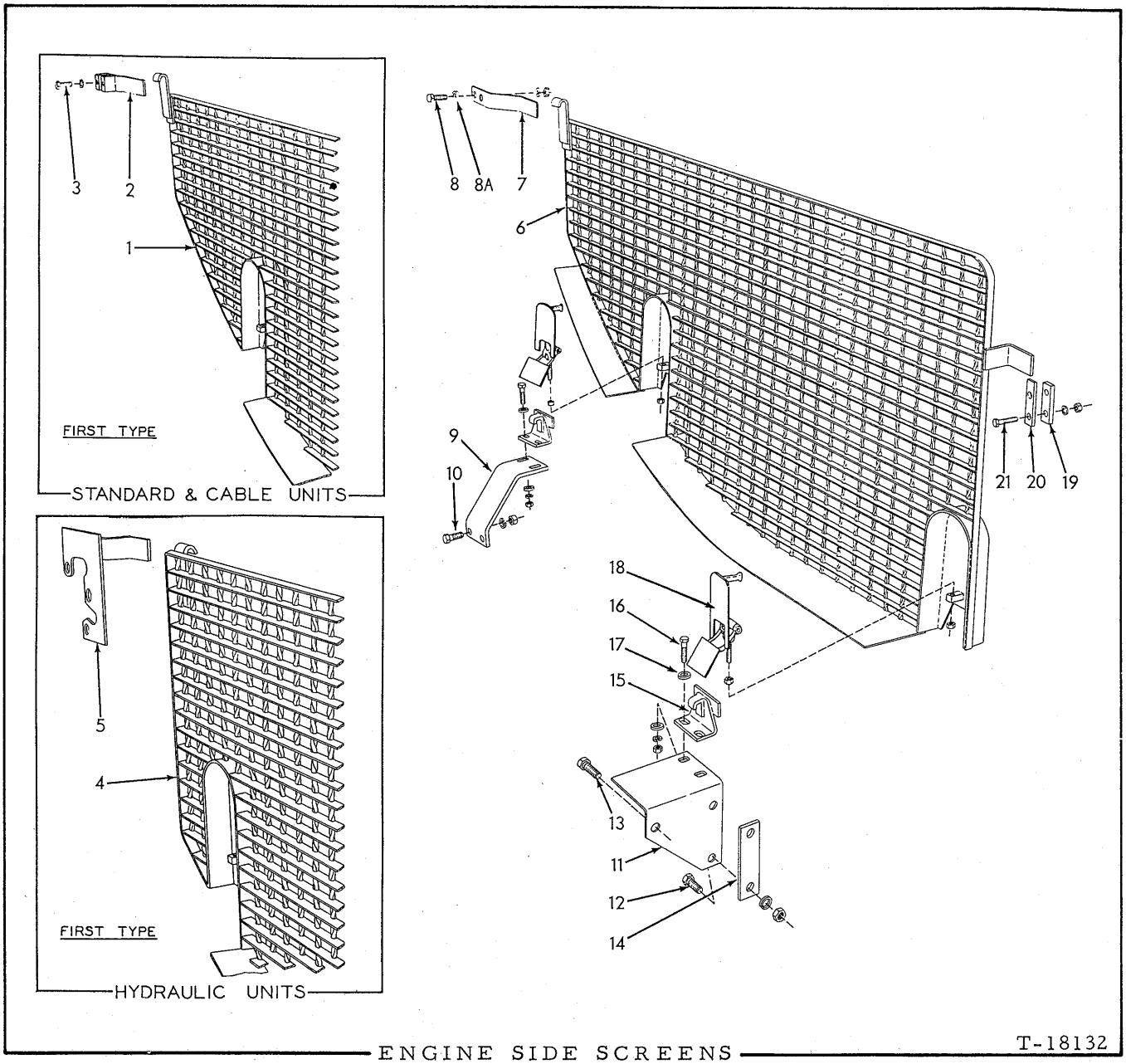



HOOD SIDE PLATES

T-40599

USAGE: Special equipment. Applicable to Model HD21G tractors serial No. 12374 and up, including No. 11817

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 633151 | 1 | PLATE ASSEMBLY, left side (Includes items 4 thru 7) |
| | 631162 | 1 | PLATE ASSEMBLY, right side (Includes items 4 and 5) |
| 2 | 035061 | 2 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 3 | 064531 | 2 | WASHER, plain |
| 4 | 033060 | 2 | FASTENER |
| | 900764 | 6 | RIVET, fl-hd., 3/16" x 1/2" |
| 5 | 032834 | 4 | HANDLE, lifting |
| | 900764 | 8 | RIVET, fl-hd., 3/16" x 1/2" |
| 6 | 633158 | 1 | FASTENER ASSEMBLY, oil filler access door |
| | 913143 | 2 | RIVET, fl-hd., 1/4" x 7/16" |
| 7 | 639439 | 1 | PIN, door fastener |
| 8 | 631426 | 4 | PLATE, latching, top |
| | 911041 | 8 | NUT, 3/8"NF |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| | 044973 | 8 | WASHER, plain |
| 9 | 077228 | 2 | PLATE, latching, bottom |
| 10 | 035073 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 11 | 089871 | 2 | BLOCK, spacing, latching plate |
| 12 | ------ | 2 | PLATE ASSEMBLY (See HOOD) |




USAGE: Special equipment for Model HD21A only.

* Tractors equipped with standard radiator guard prior to serial No. 9001 and tractors with cable radiator guard prior to April 1957

** Tractors equipped with hydraulic radiator guard prior to serial No. 9001

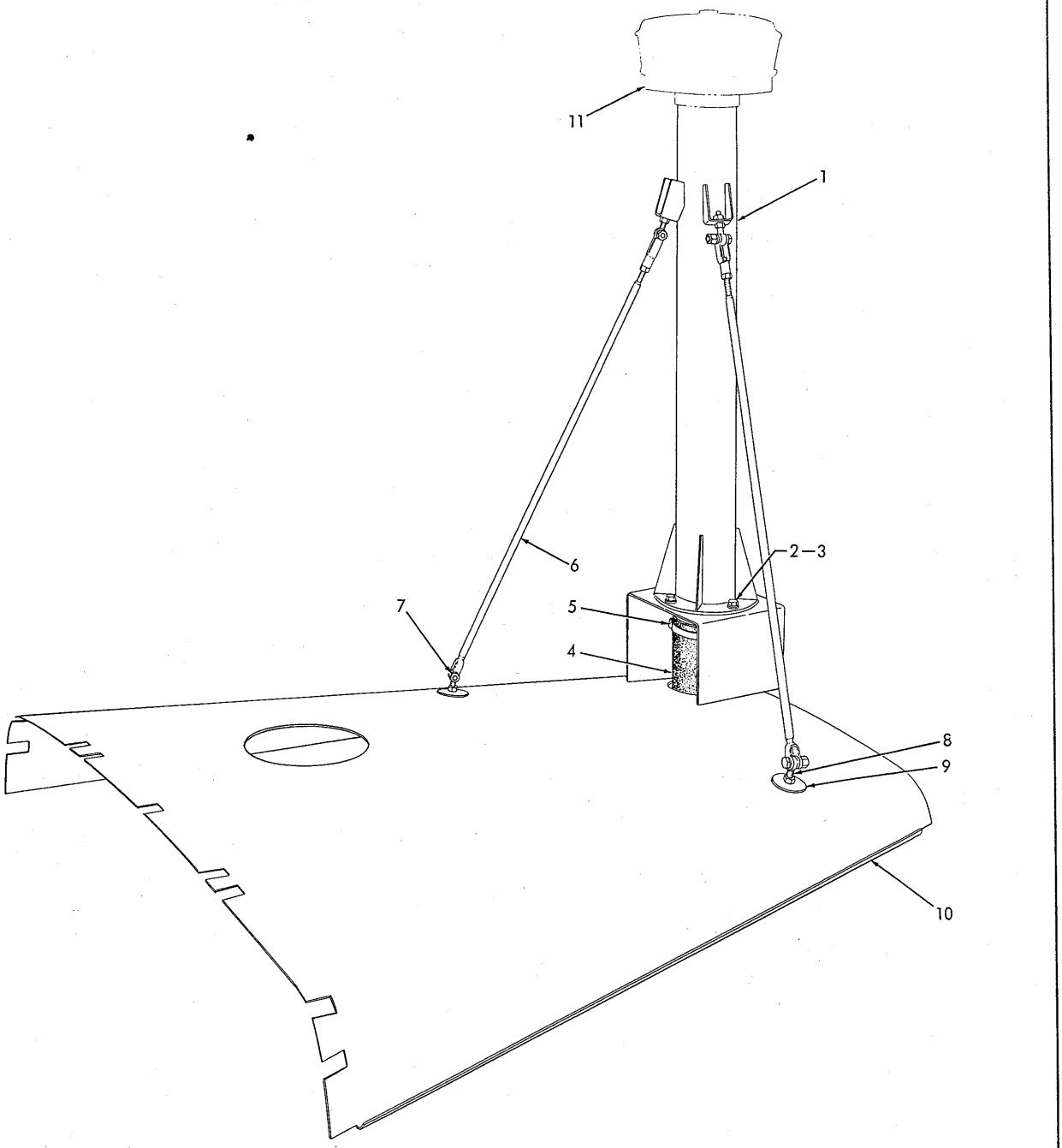
*** Tractors equipped with standard or hydraulic radiator guard effective with serial No. 9001 and with cable radiator guard effective April 1957

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | ------ | 1 | - | - | SCREEN, left (Order SCREEN 092505 and BRACKET 092509) |
| | ------ | 1 | - | - | SCREEN, right (Order SCREEN 092506 and BRACKET 092509) |

(Continued)

## ENGINE SIDE SCREENS (Continued)

| ITEM | PART NO. | QUANTITY * | ** | *** | DESCRIPTION |
|---|---|---|---|---|---|
| 2 | 085224 | 2 | - | - | BRACKET, front suspension |
| 3 | 070469 | 4 | - | - | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | - | - | LOCKWASHER, 1/2" |
| 4 | 086661 | - | 1 | - | SCREEN, left |
| | 086662 | - | 1 | - | SCREEN, right |
| 5 | 086629 | - | 1 | - | BRACKET, front suspension, left |
| | 086630 | - | 1 | - | BRACKET, front suspension, right |
| 6 | 092505 | - | - | 1 | SCREEN, left |
| | 092506 | - | - | 1 | SCREEN, right |
| 7 | 092509 | - | - | 2 | BRACKET, front suspension (Used prior to March 1958) |
| | 092508 | - | - | 2 | PLATE, front suspension (Effective March 1958) |
| 8 | 070469 | - | - | 4 | CAPSCREW, 1/2"NF x 1-1/4" } Used prior |
| | 904208 | - | - | 4 | LOCKWASHER, 1/2" } to March 1958 |
| | 035892 | - | - | 4 | CAPSCREW, 1/2"NF x 2-1/2" } |
| | 904208 | - | - | 4 | LOCKWASHER, 1/2" } Effective March 1958 |
| | 911043 | - | - | 4 | NUT, 1/2"NF } |
| 8A | 091553 | - | - | 4 | SPACER, front suspension plate (Effective March 1958) |
| 9 | 085447 | 2 | 2 | - | ANGLE, front latch supporting |
| | 092499 | - | - | 2 | ANGLE, front latch supporting |
| 10 | 070469 | 4 | 4 | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | 4 | NUT, 1/2"NF |
| 11 | 085529 | 1 | 1 | 1 | BRACKET, rear latch supporting, left |
| | 085530 | 1 | 1 | 1 | BRACKET, rear latch supporting, right |
| 12 | 070469 | 4 | 4 | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | 4 | NUT, 1/2"NF |
| 13 | 035073 | 2 | 2 | 2 | CAPSCREW, 1/2"NF x 1-3/4" |
| 14 | 045102 | 2 | 2 | 2 | PLATE, bracket spacing |
| 15 | 067118 | 4 | 4 | - | BRACKET, latching |
| | 091063 | - | - | 4 | BRACKET, latching |
| 16 | 203188 | 8 | 8 | 8 | CAPSCREW, 3/8"NF x 1-1/2" |
| 17 | 044973 | 16 | 16 | 16 | WASHER, plain |
| | 904206 | 8 | 8 | 8 | LOCKWASHER, 3/8" |
| | 911041 | 8 | 8 | 8 | NUT, 3/8"NF |
| 18 | 093401 | 4 | 4 | 4 | LATCH ASSEMBLY (Serviced only as a unit) |
| | 911041 | 8 | 8 | 8 | NUT, 3/8"NF |
| 19 | 085189 | 2 | 2 | 2 | BLOCK, spacing |
| 20 | 085193 | 2 | 2 | 2 | BLOCK, retaining |
| 21 | 203188 | 2 | 2 | 2 | CAPSCREW, 3/8"NF x 1-1/2" |
| | 904206 | 2 | 2 | 2 | LOCKWASHER, 3/8" |
| | 911041 | 2 | 2 | 2 | NUT, 3/8"NF |
| 22 | 085531 | 1 | 1 | 1 | BLOCK, retaining block attaching (right side only)(Not illustrated) |
| 23 | 203188 | 2 | 2 | 2 | CAPSCREW, 3/8"NF x 1-1/2" } Not illustrated |
| | 904206 | 2 | 2 | 2 | LOCKWASHER, 3/8" } |




AIR PRE-CLEANER EXTENSION

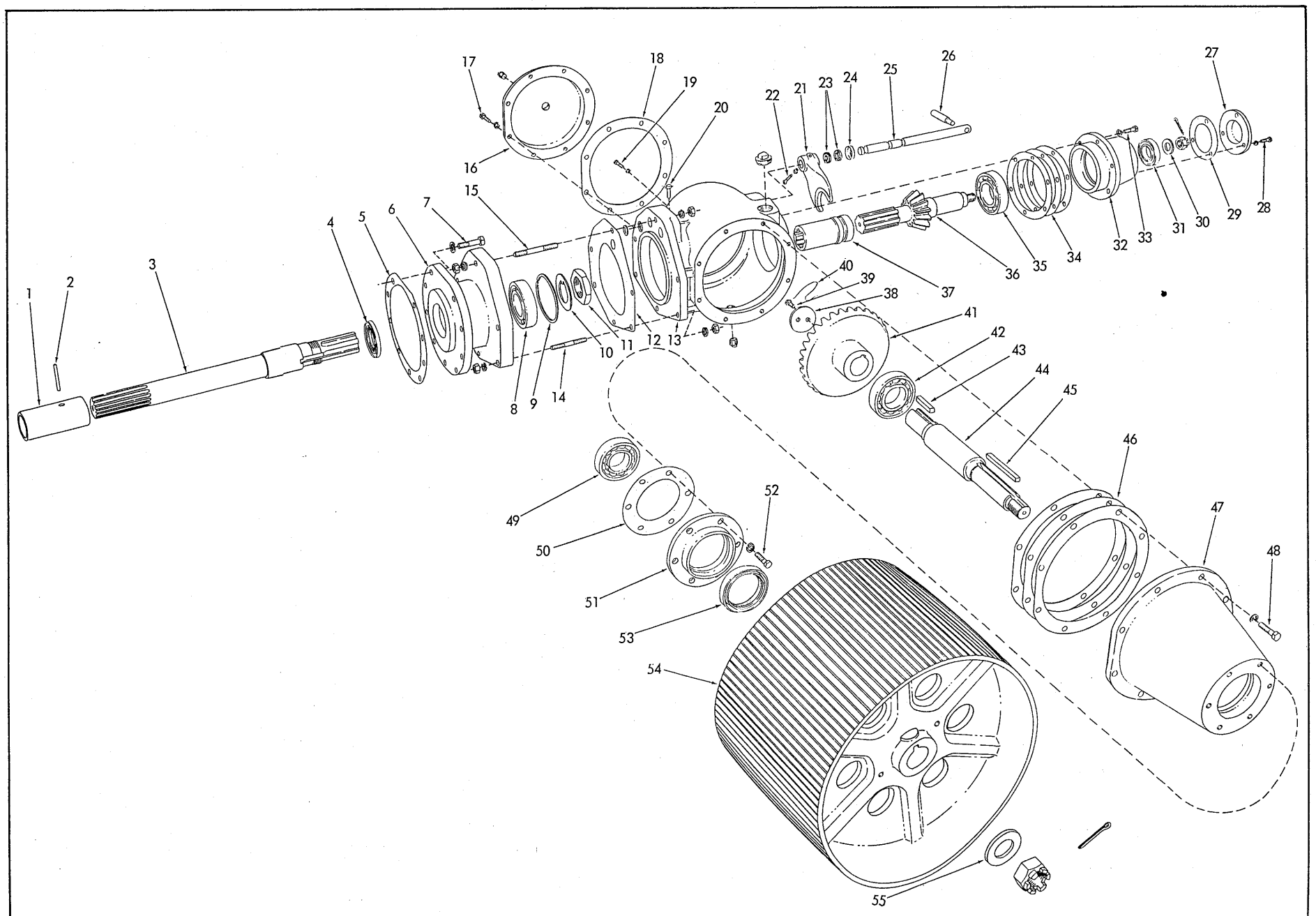
USAGE: Special equipment. Not for Model HD21G

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 083590 | 1 | TUBE, extension |
| 2 | 035073 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| 3 | 064531 | 8 | WASHER, plain |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |

(Continued)

## AIR PRE-CLEANER EXTENSION (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 4 | 083588 | 1 | HOSE, tube to air cleaner (4-1/2" long)(Used prior to June 1960) |
| | 621600 | 1 | HOSE, tube to air cleaner (8-1/2" long)(Effective with June 1960) |
| 5 | 921919 | 2 | CLAMP, hose, 4-5/8" to 7-1/4" diam. |
| 6 | 084227 | 2 | ROD, bracing |
| | 911043 | 2 | NUT, 1/2"NF |
| | 917666 | 2 | YOKE, rod end, adjustable, 1/2"NF |
| | 912192 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| 7 | 038234 | 4 | NUT, high, 1/2"NF |
| 8 | 067902 | 4 | BOLT, eye |
| | 911043 | 8 | NUT, 1/2"NF |
| 9 | 085453 | 4 | WASHER, hood reinforcing |
| 10 | 083589 | 1 | HOOD, engine (Replaces standard hood)(Used prior to tractor #9001) |
| | 092935 | 1 | HOOD, engine (Replaces standard hood)(Used on tractors #9001 thru #11000) |
| | 096571 | 1 | HOOD, engine (Replaces standard hood)(Effective with tractor #11001) |
| 11 | ------ | 1 | PRE-CLEANER ASSEMBLY (See AIR CLEANER) |




POWER PULLEY

# POWER PULLEY

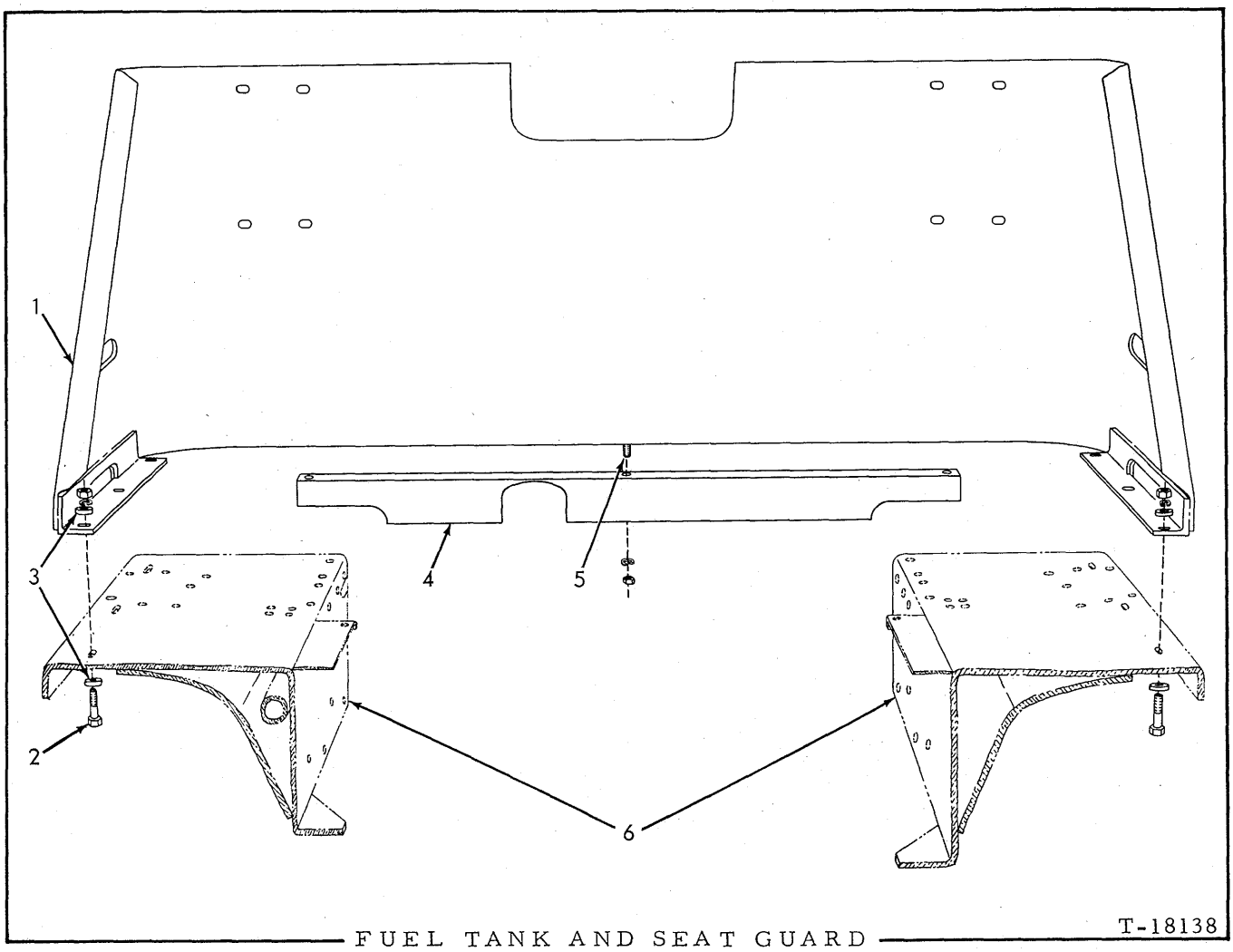
USAGE: Special equipment.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 058057 | 1 | COUPLING, front |
| 2 | 058056 | 1 | PIN, straight |
| 3 | 058059 | 1 | SHAFT, input |
| 4 | 053670 | 1 | SEAL, oil, input shaft |
| 5 | 052976 | 1 | GASKET, spacer to transmission case |
| 6 | 058058 | 1 | SPACER, gear case |
| 7 | 035248 | 9 | CAPSCREW, 5/8"NF x 2-1/4" (Used prior to tractor #9359) |
| | 023755 | 9 | CAPSCREW, 5/8"NC x 2-1/4" (Effective with tractor #9359) |
| | 904209 | 9 | LOCKWASHER, 5/8" |
| 8 | 3021048 | 1 | BEARING, ball, input shaft |
| 9 | 048704 | 1 | RING, snap, input shaft bearing |
| 10 | 070114 | 1 | WASHER, locking, bearing retaining nut |
| 11 | 070176 | 1 | NUT, bearing retaining |
| 12 | 058054 | 1 | GASKET, case to spacer |
| 13 | 071229 | 1 | CASE, gear |
| | 910006 | 1 | PLUG, expansion, 1-1/4" |
| | 912726 | 1 | PLUG, pipe, sq-hd., 3/4"NPT |
| | 912770 | 1 | PLUG, pipe, sq-hd., 1-1/2"NPT |
| 14 | 058053 | 5 | STUD (5/8"NF x 4-1/8") |
| 15 | 058052 | 1 | STUD (5/8"NF x 5-1/8") |
| | 904209 | 12 | LOCKWASHER, 5/8" |
| | 911044 | 12 | NUT, 5/8"NF |
| 16 | 071218 | 1 | COVER, gear case, side |
| 17 | 035236 | 8 | CAPSCREW, 1/2"NC x 1-3/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| | 912726 | 1 | PLUG, pipe, sq-hd., 3/4"NPT |
| 18 | 071219 | 1 | GASKET, gear case side cover |
| 19 | 013059 | 1 | CAPSCREW, retaining, shifting fork shaft (3/8"NC x 2") |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 20 | 051447 | 1 | BREATHER ASSEMBLY, gear case (Serviced only as a unit) |
| 21 | 071217 | 1 | FORK, sleeve shifting |
| 22 | 013059 | 1 | CAPSCREW, 3/8"NC x 2" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 23 | 034674 | 2 | PACKING, shifting fork shaft |
| 24 | 035405 | 1 | RETAINER, shaft packing |
| 25 | 071213 | 1 | SHAFT, shifting fork |
| 26 | 021711 | 1 | HANDLE, shifting fork shaft |
| 27 | 071205 | 1 | CAP, pinion shaft bearing housing |
| 28 | 035061 | 3 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 3 | LOCKWASHER, 1/2" |

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## POWER PULLEY (Continued)

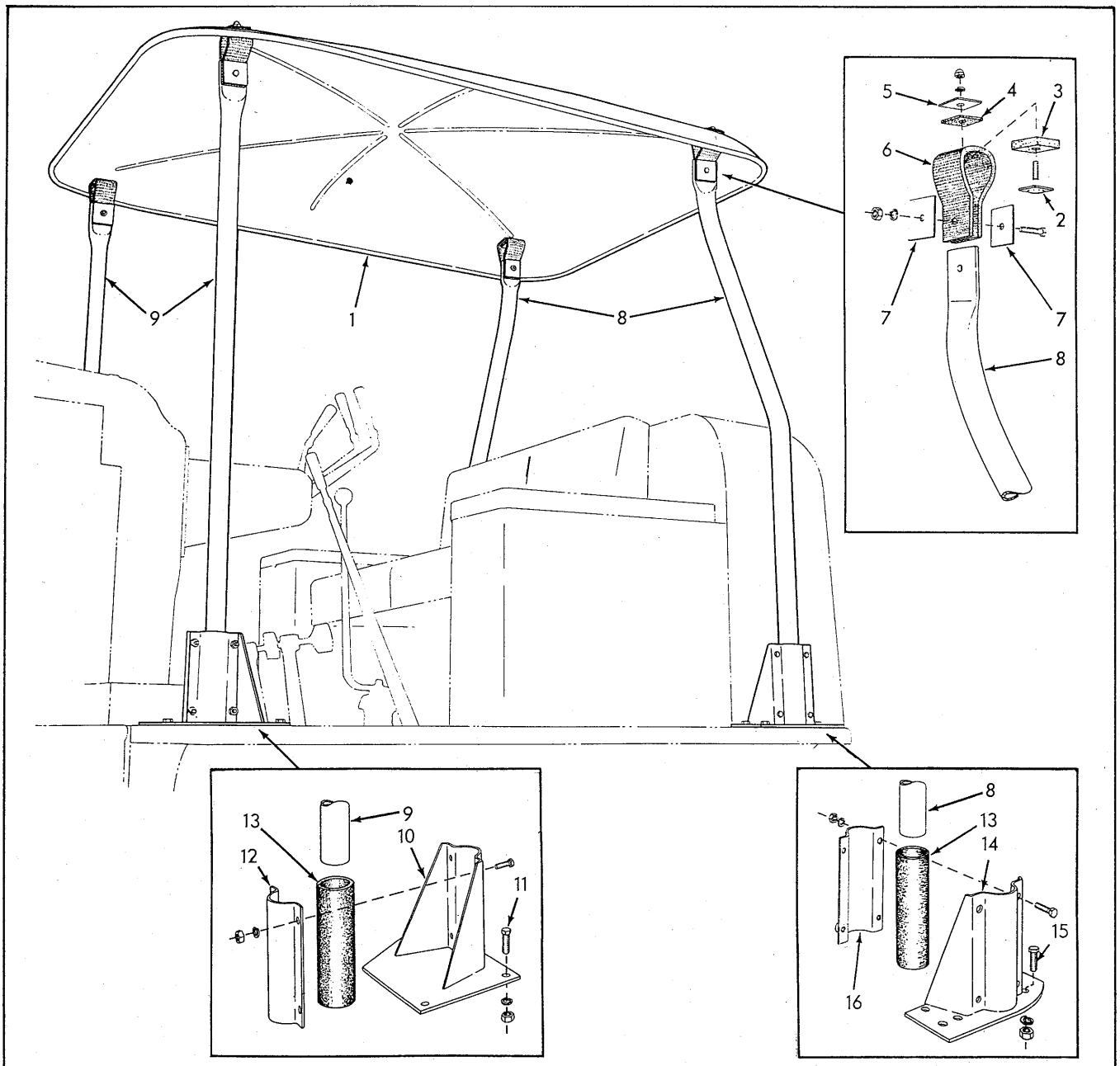
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 29 | 071206 | 1 | GASKET, bearing housing cap |
| 30 | 071210 | 1 | WASHER, retaining, pinion shaft rear bearing |
| | 911057 | 1 | • NUT, castle, 1"NF |
| | 904002 | 1 | PIN, cotter, 1/8" x 2" |
| 31 | 042847 | 1 | BEARING, ball, pinion shaft, rear |
| 32 | 071220 | 1 | HOUSING, pinion shaft bearings |
| 33 | 035236 | 6 | CAPSCREW, 1/2"NC x 1-3/4" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 34 | 071452 | 25 | SHIM, pinion adjustment (.005" thick. Use as req'd) |
| 35 | 042890 | 1 | BEARING, ball, pinion shaft, front |
| 36 | 041881 | 1 | PINION AND SHAFT |
| 37 | 041882 | 1 | SLEEVE, coupling |
| 38 | 071212 | 1 | WASHER, bevel gear retaining |
| 39 | 011259 | 2 | CAPSCREW, drilled-hd., 1/2"NC x 1" |
| 40 | 023633 | 1 | WIRE, locking, 1/16" x 12" |
| 41 | 041883 | 1 | GEAR, bevel, pulley shaft (30 teeth) |
| 42 | 638620 | 1 | BEARING, ball, pulley shaft, inner |
| 43 | 071211 | 1 | KEY, pulley shaft bevel gear |
| 44 | 071221 | 1 | SHAFT, pulley |
| 45 | 071215 | 1 | KEY, belt pulley |
| | 071225 | 3 | SHIM, gear adjustment (.005" thick. Use as req'd) |
| 46 | 071226 | 3 | SHIM, gear adjustment (.010" thick. Use as req'd) |
| | 071227 | 4 | SHIM, gear adjustment (.020" thick. Use as req'd) |
| 47 | 071228 | 1 | HOUSING, pulley shaft bearings |
| 48 | 035236 | 8 | CAPSCREW, 1/2"NC x 1-3/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 49 | 204751 | 1 | BEARING, ball, pulley shaft, outer |
| 50 | 071207 | 1 | GASKET, pulley shaft bearing retainer |
| 51 | 034696 | 1 | RETAINER, pulley shaft outer bearing |
| 52 | 035061 | 6 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 53 | 029563 | 1 | SEAL, oil, pulley shaft |
| 54 | 077400 | 1 | PULLEY, belt (20" diam.) |
| 55 | 071209 | 1 | WASHER, belt pulley retaining |
| | 911058 | 1 | NUT, castle, 1-1/2"NF |
| | 904006 | 1 | PIN, cotter, 3/16" x 2-3/4" |




FUEL TANK AND SEAT GUARD T-18138

USAGE: Special equipment for Model HD21A. Requires heavy fenders for installation

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 060806 | 1 | GUARD |
| 2 | 035248 | 6 | CAPSCREW, 5/8"NF x 2-1/4" |
| 3 | 064810 | 12 | WASHER, plain |
| | 904209 | 6 | LOCKWASHER, 5/8" |
| | 911044 | 6 | NUT, 5/8"NF |
| 4 | 065936 | 1 | ANGLE, reinforcing (Used prior to approx. Dec. 1957) |
| 5 | 023465 | 3 | CAPSCREW, 5/8"NF x 1-3/4" |
| | 904209 | 3 | LOCKWASHER, 5/8" |
| | 911044 | 3 | NUT, 5/8"NF |
| 6 | ------ | - | FENDER (See HEAVY REAR FENDERS) |




CANOPY

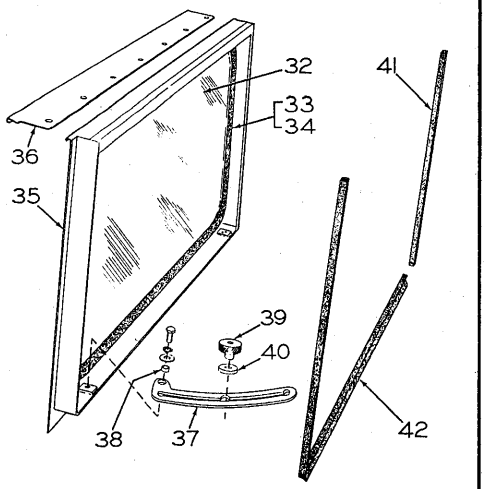
USAGE: Special equipment. Applicable to Model HD21A only.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 52000 | 1 | △ CANOPY |
| 2 | A52015 | 4 | △ BOLT, canopy |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 918471 | 4 | NUT, cap, 3/8"NC |
| 3 | 52013 | 4 | △ PAD, canopy bolt, lower (rubber, 1/2" thick) |
| 4 | 52014 | 4 | △ PAD, canopy bolt, upper (rubber, 1/8" thick) |
| 5 | 088556 | 4 | PLATE, canopy bolt upper pad |

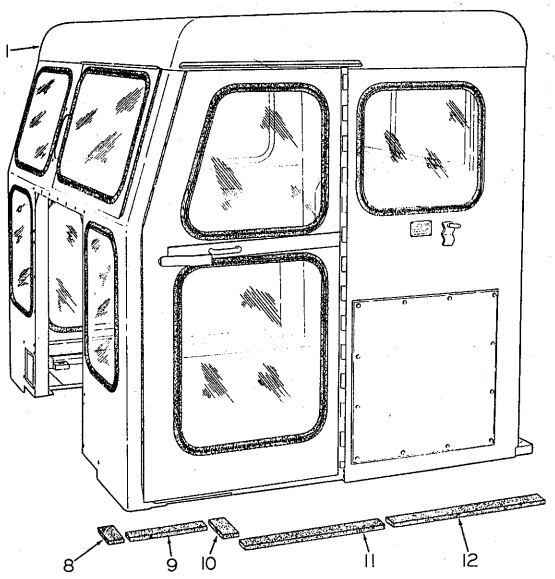
(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 6 | 52018 | 4 | △STRAP, canopy (fibre) |
| | 903633 | 4 | CAPSCREW, 3/8"NC x 1-3/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 911026 | 4 | NUT, 3/8"NC |
| 7 | 52017 | 8 | △WASHER, canopy strap (2-1/2" square) |
| 8 | 088555 | 2 | POST, rear |
| 9 | 58722 | 2 | △POST, front |
| 10 | A68910L | 1 | △BRACKET, mounting, left front |
| | A68910R | 1 | △BRACKET, mounting, right front |
| 11 | 035733 | 6 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| | 911028 | 6 | NUT, 1/2"NC |
| 12 | 52010 | 2 | △CLAMP, front mounting bracket |
| | 903631 | 8 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| | 911026 | 8 | NUT, 3/8"NC |
| 13 | 52012 | 4 | △BUSHING, mounting bracket (rubber) |
| 14 | A68905L | 1 | △BRACKET, mounting, left rear |
| | A68905R | 1 | △BRACKET, mounting, right rear |
| 15 | 035733 | 8 | CAPSCREW, 1/2"NC x 1-3/8" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| | 911028 | 8 | NUT, 1/2"NC |
| 16 | A58701 | 2 | △CLAMP, rear mounting bracket |
| | 903631 | 8 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| | 911026 | 4 | NUT, 3/8"NC |

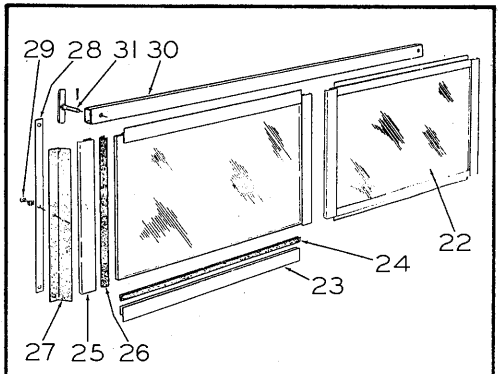
NOTE: All parts indicated by triangle (△) above must be procured thru Allen Industrial Products Inc., Menomonee Falls, Wisconsin. Vendor's part numbers are listed




WINDSHIELD PARTS T-18120

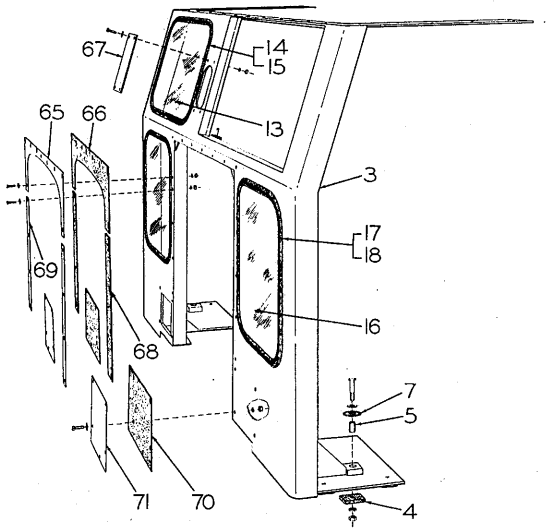



T-18100

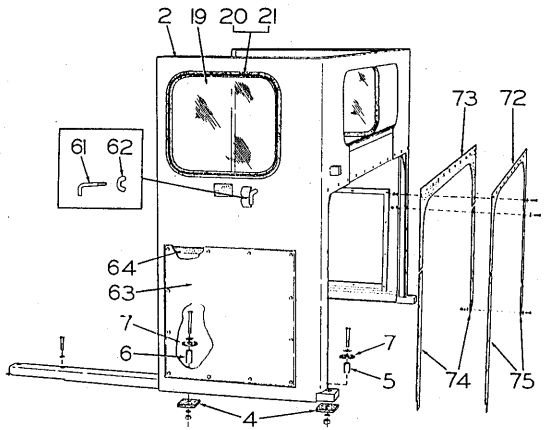



T-18121

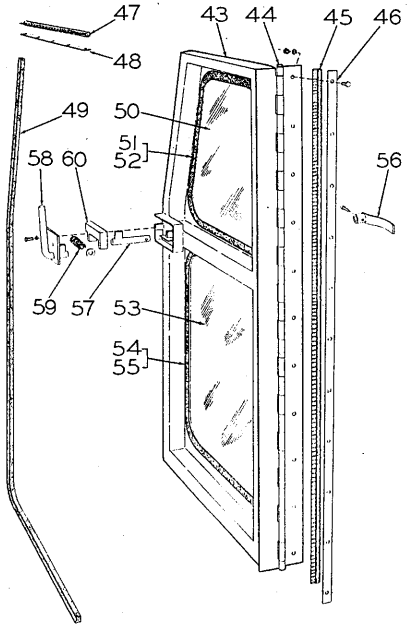
REAR WINDOW PARTS




FRONT PANEL PARTS T-18101




REAR PANEL PARTS T-18102




DOOR PARTS T-18119

CAB

# CAB

USAGE: Special equipment. Applicable to Model HD21A

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: All parts indicated by triangle (Δ) below must be procured thru Allen Industrial Products, Inc., Menomonee Falls, Wisconsin. Vendor's part numbers are listed. |
| 1 | 089004 | 1 | TOP, cab |
| | 903630 | 2 | CAPSCREW, 3/8"NC x 1" |
| | 903631 | 25 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 914814 | 4 | SCREW, machine, fl-hd., 3/8"NC x 1" |
| | 904206 | 31 | LOCKWASHER, 3/8" |
| | 911026 | 29 | NUT, 3/8"NC |
| | 903773 | 10 | CAPSCREW, 5/16"NC x 1-1/4" |
| | 904205 | 10 | LOCKWASHER, 5/16" |
| | 911025 | 10 | NUT, 5/16"NC |
| 2 | 088974 | 1 | PANEL, cab rear section (Stripped of all removable parts) |
| | 905668 | 2 | CAPSCREW, 1/2"NC x 3-1/4" |
| | 906700 | 2 | CAPSCREW, 1/2"NC x 3-3/4" |
| | 903641 | 4 | CAPSCREW, 1/2"NC x 2-1/4" |
| | 910244 | 4 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| | 911028 | 4 | NUT, 1/2"NC |
| 3 | 088973 | 1 | PANEL, cab front section (Stripped of all removable parts) |
| | 905668 | 4 | CAPSCREW, 1/2"NC x 3-1/4" |
| | 910244 | 4 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911028 | 4 | NUT, 1/2"NC |
| 4 | 42951 | 8 | ΔMOUNT, shock (rubberized fabric) |
| 5 | 67971 | 6 | ΔBUSHING, shock mount spacing (1-1/2" long) |
| 6 | 67972 | 2 | ΔBUSHING, shock mount spacing, (2" long) |
| 7 | 42950 | 8 | ΔWASHER, shock mount (rubberized fabric) |
| 8 | 085005 | 2 | STRIP, sealing, cab sill (rubber, 4-1/2" long) |
| 9 | 3841-10 | 2 | ΔSTRIP, sealing, cab sill (rubber, 10" long) |
| 10 | 3841-6 | 2 | ΔSTRIP, sealing, cab sill (rubber, 5-1/2" long) |
| 11 | 084925 | 2 | STRIP, sealing, cab sill (rubber, 18-1/2" long) |
| 12 | 3841-23 | 2 | ΔSTRIP, sealing, cab sill (rubber, 22-3/8" long) |
| 13 | 089027 | 1 | GLASS, front panel, upper |
| 14 | 088908 | 1 | SEAL, front panel upper glass |
| 15 | 088906 | 1 | STRIP, expanding, front panel upper glass seal |
| 16 | 089432 | 2 | GLASS, front panel, lower |
| 17 | 089020 | 2 | SEAL, front panel lower glass |
| 18 | 089022 | 2 | STRIP, expanding, front panel lower glass seal |
| 19 | 077471 | 2 | GLASS, rear panel, side |

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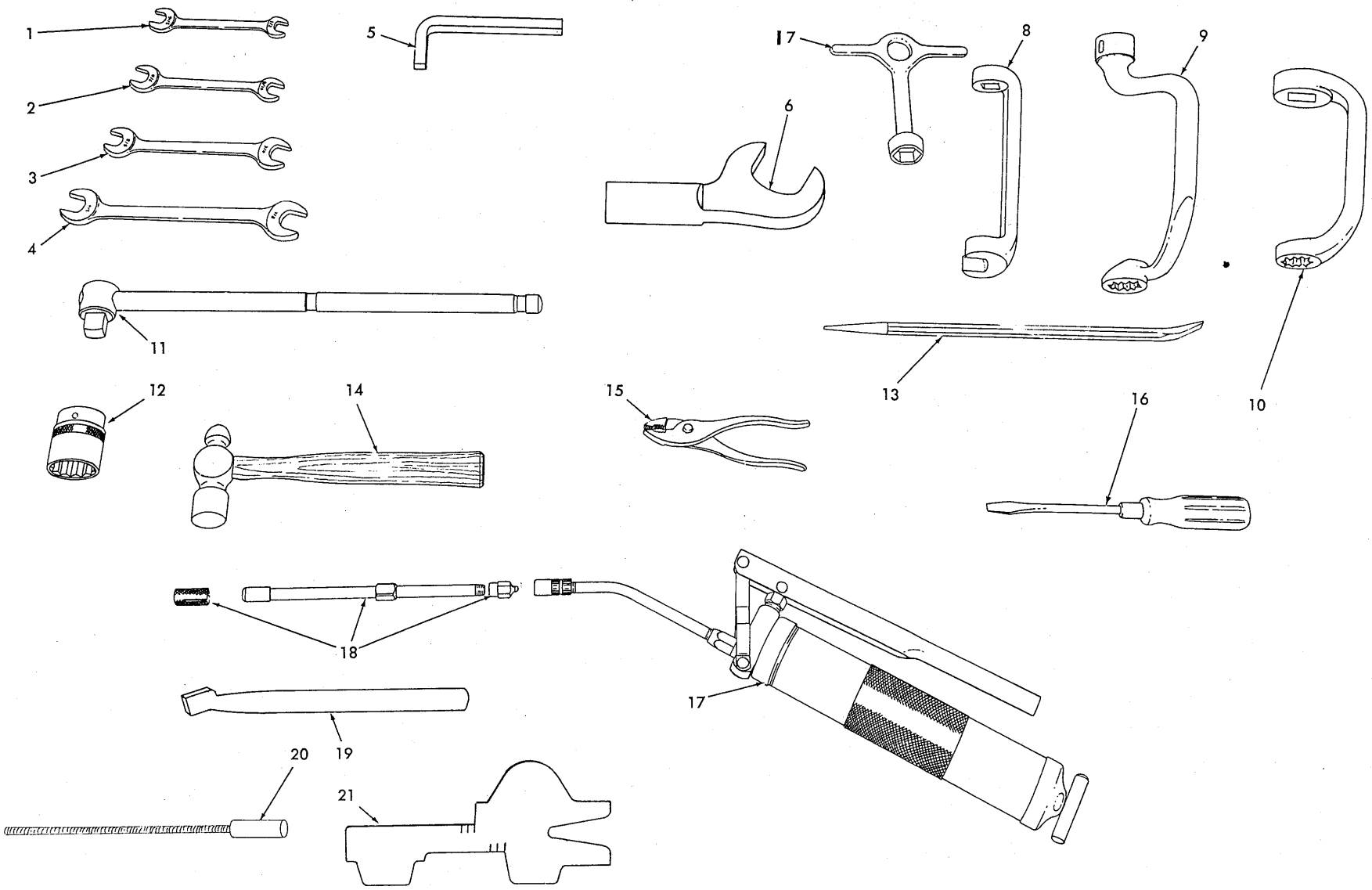
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 20 | 077977 | 2 | SEAL, rear panel side glass |
| 21 | 077982 | 2 | STRIP, expanding, rear panel side glass seal |
| 22 | 088980 | 2 | GLASS, sliding, rear panel |
| 23 | 67952 | 4 | △CHANNEL, upper and lower, sliding glass |
| 24 | 3452-23 | 4 | △SEAL, sliding glass upper and lower channel (22-3/4" long) |
| 25 | 3110-14 | 4 | △CHANNEL, side, sliding glass |
| 26 | 088976 | 4 | SEAL, sliding glass side channel (15-1/4" long) |
| 27 | 085138 | 2 | SEAL, sliding glass |
| 28 | 67938 | 2 | △RETAINER, sliding glass seal |
| 29 | 918157 | 6 | SCREW, truss-hd., 1/4"NC x 3/4" |
| | 906958 | 6 | LOCKWASHER, int-teeth, 1/4" |
| 30 | A67935 | 1 | △RETAINER, sliding glass |
| 31 | 089109 | 2 | HANDLE, rear glass locking |
| | 900805 | 2 | PIN, cotter, 1/8" x 3/4" |
| 32 | 089026 | 1 | GLASS, windshield |
| 33 | 089021 | 1 | SEAL, windshield glass |
| 34 | 089023 | 1 | STRIP, expanding, windshield glass seal |
| 35 | A67915 | 1 | △FRAME, windshield (Stripped of all removable parts) (When required prior to cab #11563 also order items 37 and 38) |
| 36 | A67920 | 1 | △HINGE, windshield |
| 37 | 089103 | 1 | REGULATOR, windshield, left |
| | 089104 | 1 | REGULATOR, windshield, right |
| | 904557 | 2 | RIVET, ctsk-hd., 3/8" x 3/4" (Used prior to cab #11563) |
| | 903629 | 2 | CAPSCREW, 3/8"NC x 3/4" } Effective with cab #11563 |
| | 904206 | 2 | LOCKWASHER, 3/8" } Effective with cab #11563 |
| | 900817 | 2 | WASHER, plain, U.S. std., 3/8" } Effective with cab #11563 |
| 38 | 093065 | 2 | SLEEVE, windshield regulator (Effective with cab #11563) |
| 39 | 089110 | 2 | KNOB, locking, windshield regulating arm |
| 40 | 084919 | 2 | SPACER, windshield regulating arm locking knob |
| 41 | 089639 | 1 | SEAL, windshield, right side (19-3/4" long) |
| 42 | 089024 | 1 | SEAL, windshield, bottom and left side (60" long) |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 43 | A67900L | 1 | △DOOR, left (Stripped of all removable parts. Includes item 44) |
| | 088918 | 1 | DOOR, right (Stripped of all removable parts. Includes item 44) |
| | 903772 | 22 | CAPSCREW, 5/16"NC x 1" |
| | 904205 | 22 | LOCKWASHER, 5/16" |
| | 911025 | 22 | NUT, 5/16"NC |
| 44 | 088913 | 2 | HINGE, door (Requires welding to door) |
| 45 | 089176 | 2 | SEAL, door back (54" long) |
| 46 | 67927 | 2 | △RETAINER, door back seal |
| 47 | 089085 | 2 | SEAL, door top (21-1/8" long) |
| 48 | 089102 | 2 | RETAINER, door top seal |
| 49 | 3838-83 | 2 | △SEAL, door bottom and front (83" long) |
| 50 | 088911 | 2 | GLASS, door, upper |
| 51 | 077785 | 2 | SEAL, door upper glass |
| 52 | 077767 | 2 | STRIP, expanding, door upper glass seal |
| 53 | 077467 | 2 | GLASS, door, lower |
| 54 | 077783 | 2 | SEAL, door lower glass |
| 55 | 077765 | 2 | STRIP, door lower glass seal |
| 56 | 084920 | 2 | HANDLE, door, outside |
| | 912264 | 2 | CAPSCREW, socket-hd., 5/16"NC x 1" |
| 57 | 084877 | 1 | SHAFT, right outside door handle |
| | 084878 | 1 | SHAFT, left outside door handle |
| 58 | 084875 | 1 | HANDLE ASSEMBLY, inside, right door |
| | 084876 | 1 | HANDLE ASSEMBLY, inside, left door |
| | 910167 | 4 | CAPSCREW, 5/16"NF x 3/4" |
| | 904205 | 4 | LOCKWASHER, 5/16" |
| 59 | 085016 | 2 | SPRING, door latching bolt |
| | 911115 | 6 | WASHER, plain, SAE std., 3/8" |
| 60 | 084879 | 1 | BOLT, right door latching |
| | 084880 | 1 | BOLT, left door latching |
| 61 | 088979 | 2 | HOOK, door hold-back |
| 62 | 085559 | 2 | NUT, wing, 5/8"NC |

(Continued)

| ITEM | PART PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 63 | 077480 | 2 | COVER ASSEMBLY, battery access (Includes item 64) |
| | 903626 | 24 | CAPSCREW, 5/16"NC x 3/4" |
| | 904205 | 24 | LOCKWASHER, 5/16" |
| 64 | 078705 | 8 | SEAL, battery access cover (sponge rubber, 1/8" x 1" x 21") |
| 65 | 089605 | 1 | FILLER, front panel |
| | 903631 | 9 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 911115 | 9 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 9 | LOCKWASHER, 3/8" |
| | 911026 | 9 | NUT, 3/8"NC |
| 66 | 089606 | 1 | SEAL, upper, front panel to cowl |
| 67 | 089608 | 1 | PLATE, closure |
| | 903631 | 4 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 911115 | 4 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 911026 | 4 | NUT, 3/8"NC |
| 68 | 089116 | 2 | SEAL, intermediate, front panel to cowl |
| 69 | 089118 | 2 | RETAINER, front panel to cowl intermediate seal |
| | 903631 | 8 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 911115 | 8 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| | 911026 | 8 | NUT, 3/8"NC |
| 70 | 089037 | 2 | SEAL, lower, front panel to cowl |
| 71 | 088907 | 2 | PANEL, enclosure, front panel cut-out |
| | 903631 | 8 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 911115 | 8 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| | 911026 | 8 | NUT, 3/8"NC |
| 72 | 089889 | 1 | FILLER, rear panel |
| | 903631 | 13 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 911115 | 13 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 13 | LOCKWASHER, 3/8" |
| | 911026 | 13 | NUT, 3/8"NC |
| 73 | 67986 | 1 | ΔSEAL, top, rear panel to fuel tank |
| 74 | 67957 | 2 | ΔSEAL, side, rear panel to fuel tank |
| 75 | 089119 | 2 | RETAINER, rear panel to fuel tank side seal |
| | 903631 | 10 | CAPSCREW, 3/8"NC x 1-1/4" |
| | 903630 | 2 | CAPSCREW, 3/8"NC x 1" |
| | 911115 | 14 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| | 911026 | 12 | NUT, 3/8"NC |

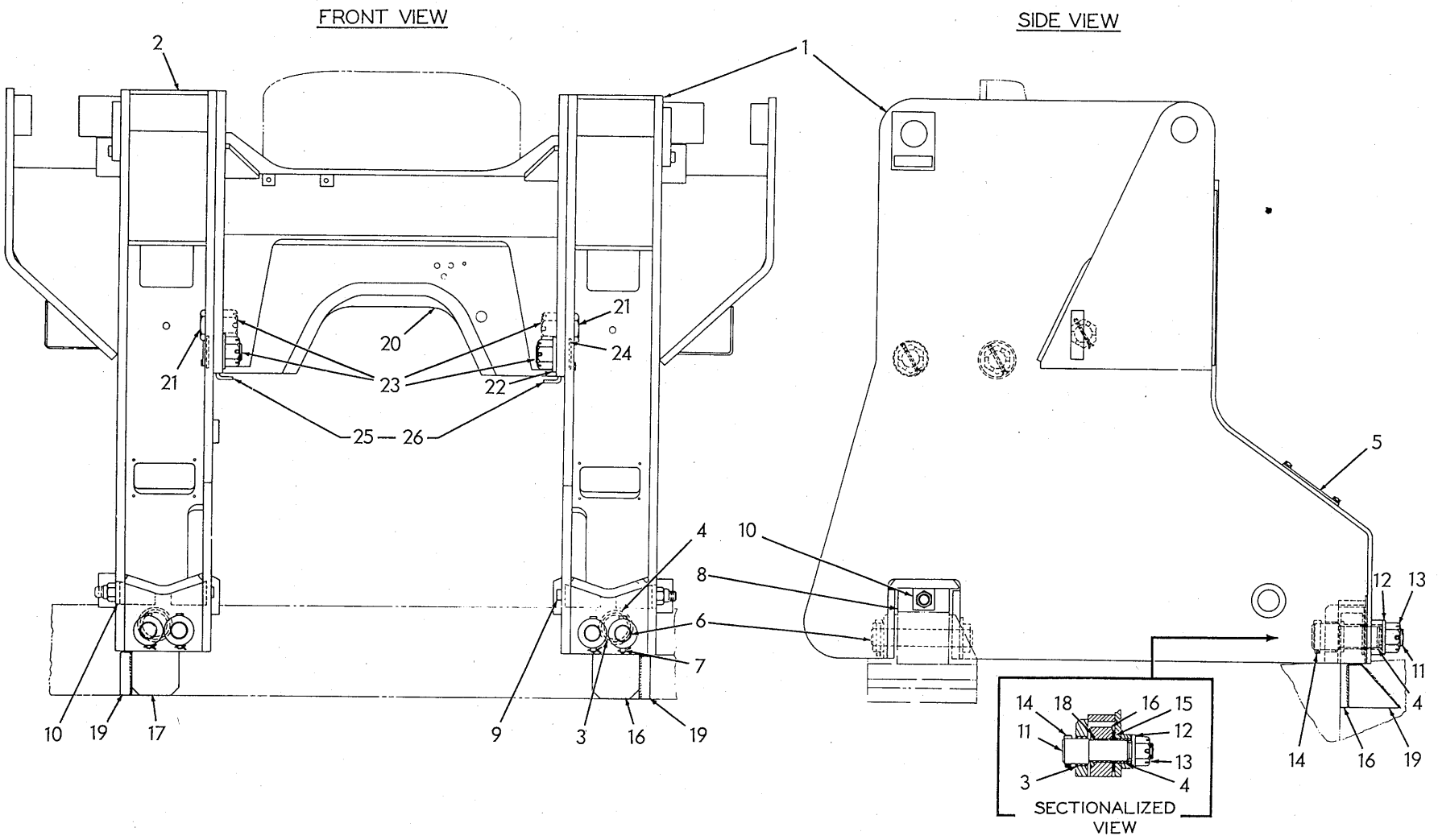



TRACTOR TOOLS

T-11620

# TRACTOR TOOLS

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: For a complete line of service tools for the "Allis-Chalmers" Diesel engines, consult Kent-Moore Organization, Inc., 1501 South Jackson Street, Jackson, Michigan |
| - | 089710 | 1 | TOOL SET (Consists of items 1 thru 9, and 11 thru 18; also 2 PLUGS 035250, 2 GASKETS 035249 and 1 PLUG 912725)(Used prior to tractor #11001) |
| - | 097627 | 1 | TOOL SET (Consists of items 1 thru 6, 10 thru 17, and 19; also 1 PLUG 912725)(Effective with tractor #11001) |
| 1 | 050608 | 1 | WRENCH, open end, double head, 15°, 1/2" and 9/16" |
| 2 | 053423 | 1 | WRENCH, open end, double head, 15°, 9/16" and 5/8" |
| 3 | 050609 | 1 | WRENCH, open end, double head, 15°, 5/8" and 3/4" |
| 4 | 050610 | 1 | WRENCH, open end, double head, 15°, 3/4" and 7/8" |
| 5 | 043769 | 1 | WRENCH, drain and filling plugs (90°, 1/2" square) |
| 6 | 040170 | 1 | WRENCH, track release adjustment (2-9/32" open end)(Used prior to tractor #11234) |
| | 050573 | 1 | WRENCH, track release adjustment (2-9/16" open end)(Effective with tractor #11234) |
| 7 | 040272 | 1 | WRENCH, lubricant hole plugs |
| 8 | 084285 | 1 | WRENCH, open end, cylinder heat nut |
| 9 | 082667 | 1 | WRENCH, socket end, cylinder head nut |
| 10 | 4378423 | 1 | WRENCH, socket end, cylinder heat nut |
| 11 | 053426 | 1 | HANDLE, socket, sliding T, 3/4" square drive, 21-1/2" long) |
| 12 | 914799 | 1 | SOCKET, 3/4" square drive, 12-point, 1-5/16" hex (For track shoe bolts) |
| | 919261 | 1 | SOCKET, 3/4" square drive, 12-point, 1-1/2" hex (For track adjustment locking capscrew) |
| 13 | 052371 | 1 | BAR, pinch, 16" long |
| 14 | 012387 | 1 | HAMMER, ball peen, 1 lb. |
| 15 | 012389 | 1 | PLIERS, slip joint, 6" |
| 16 | 036268 | 1 | SCREWDRIVE, 9-3/4" long |
| 17 | 073735 | 1 | GUN, grease (Serviced only as a unit) |
| 18 | 058937 | 1 | NOZZLE ASSEMBLY, low-pressure lubrication (Includes FITTING indented below) |
| | 914767 | 1 | FITTING, lubricating, straight, 1/8"NPT female |
| 19 | 628872 | 1 | TOOL, engine clutch adjustment |
| 20 | 084611 | 1 | GAUGE, injection timing (For use only on early units without flywheel timing marks) |
| 21 | 631354 | 1 | GAUGE, wear (Indicates maximum wear tolerances for track rails, grouser shoes, sprockets, idlers and truck wheels) |




SHOVEL. FRAME (First type)

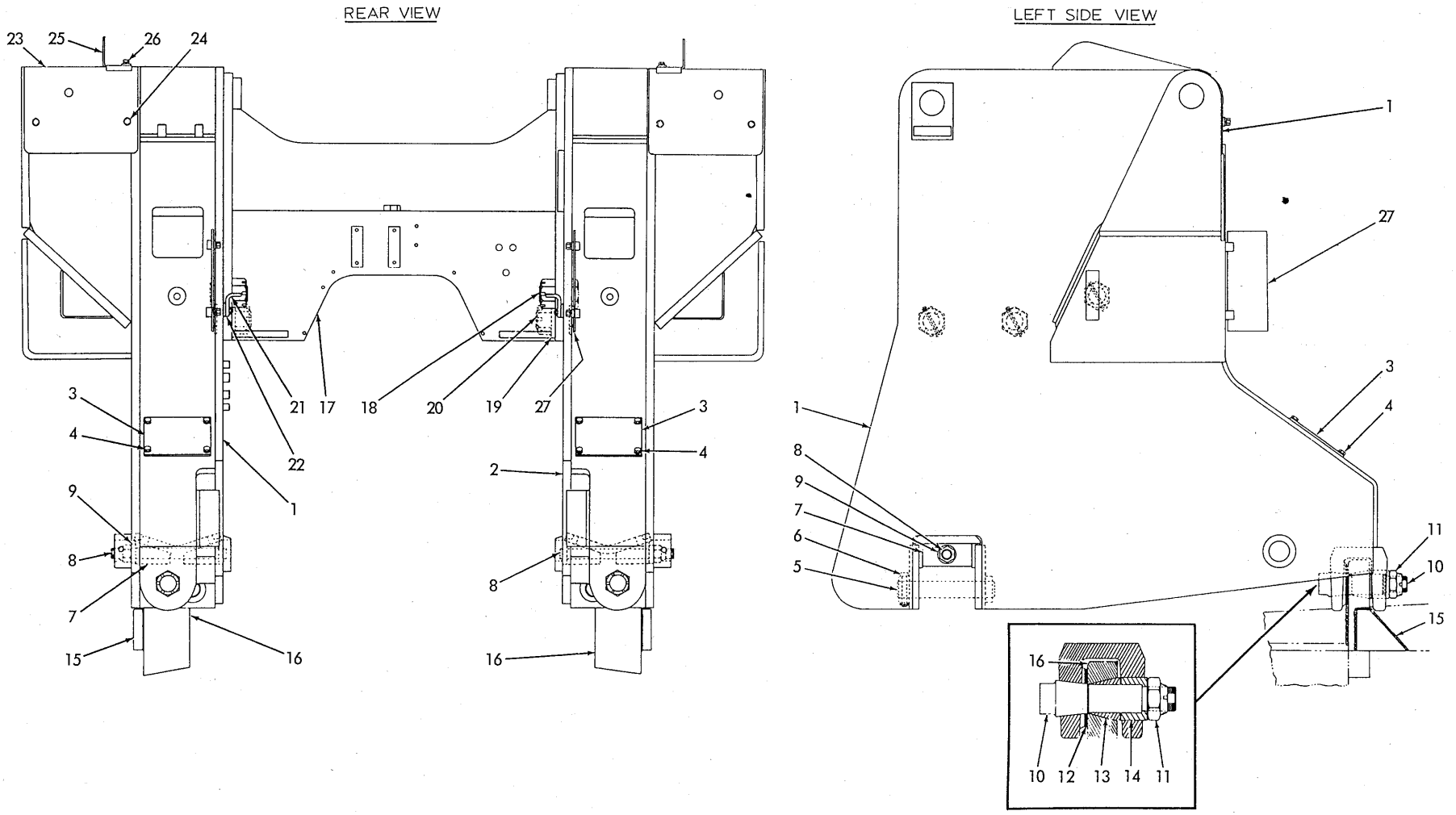
T-27438

# SHOVEL FRAME

USAGE: Shovels prior to serial No. 155

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 3013359 | 1 | FRAME ASSEMBLY, left (Includes 1 BUSHING 3012153, 1 BUSHING 3012154 and item 24) |
| 2 | 3013360 | 1 | FRAME ASSEMBLY, right (Includes 1 BUSHING 3012153, 1 BUSHING 3012154 and item 24) |
| 3 | 3012154 | 2 | BUSHING, frame pivot, front |
| 4 | 3012153 | 2 | BUSHING, frame pivot, rear |
| 5 | 626586 | 2 | PLATE, frame cover |
| | 070469 | 8 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 6 | 626583 | 4 | PIN, frame anchor, front |
| 7 | 626584 | 4 | PIN, retaining, front anchor pin |
| | 900810 | 4 | PIN, cotter, 3/16" x 1-1/4" |
| 8 | 626585 | 4 | WEDGE, frame anchor pin |
| 9 | 626544 | 2 | STUD, (1-1/4" diam.) |
| | 917776 | 2 | NUT, elastic stop, 1-1/4"NF |
| 10 | 626545 | 2 | BLOCK, spacing |
| 11 | 3011162 | 2 | PIN, frame anchor, rear |
| 12 | 626543 | 2 | WASHER, plain |
| 13 | 918530 | 2 | NUT, slotted, 2"NF |
| | 904015 | 2 | PIN, cotter, 3/8" x 3-1/2" |
| 14 | 3014169 | 2 | PIN, retaining, rear anchor pin |
| | 900810 | 2 | PIN, cotter, 3/16" x 1-1/4" |
| 15 | 626590 | - | SHIM, rear anchor pin (1/16" thick. Use as required) |
| 16 | 3019463 | 1 | *LUG ASSEMBLY, frame mounting, left (Includes item 18) |
| 17 | 3019464 | 1 | *LUG ASSEMBLY, frame mounting, right (Includes item 18) |
| 18 | 3012155 | 2 | BUSHING, frame lug |
| 19 | 3009325 | 2 | *GUSSET, frame lug |
| 20 | 626506 | 1 | STABILIZER, frame |
| 21 | 626542 | 6 | PIN (2"NF) |
| 22 | 626543 | 4 | WASHER, plain |
| 23 | 918530 | 6 | NUT, slotted, 2"NF |
| | 904015 | 6 | PIN, cotter, 3/8" x 3-1/2" |
| 24 | 3014553 | 4 | *RING, pin locking |
| 25 | 626505 | 2 | BRACKET, hose supporting |
| | 916421 | 4 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 910244 | 4 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 26 | 626502 | - | SHIM, bracket spacing (Use as required) |

*Require welding to install




SHOVEL FRAME (Second type)

T-33465

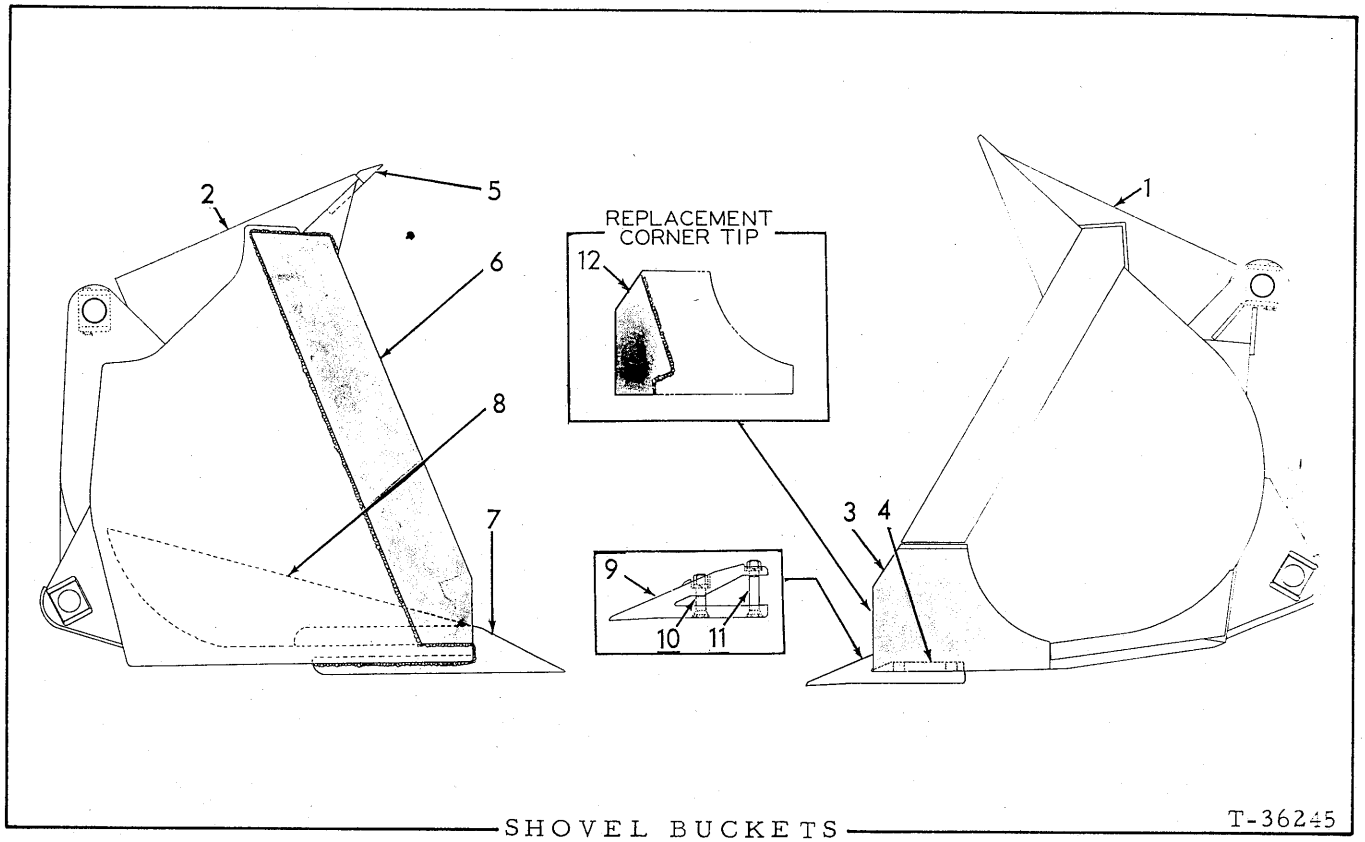
# SHOVEL FRAME

USAGE: Shovels serial No. 155 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 626503 | 1 | *FRAME, left |
| 2 | 626504 | 1 | *FRAME, right |
| 3 | 626586 | 2 | PLATE, frame cover |
| 4 | 070469 | 8 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 5 | 626583 | 4 | PIN, frame anchor, front |
| 6 | 626584 | 4 | PIN, retaining, front anchor pin |
| | 900810 | 4 | PIN, cotter, 3/16" x 1-1/4" |
| 7 | 626585 | 4 | WEDGE, frame anchor pin |
| 8 | 626544 | 2 | STUD (1-1/4" diam.) |
| 9 | 626547 | 2 | WASHER, plain |
| | 917776 | 2 | NUT, elastic stop, 1-1/4"NF |
| 10 | 626589 | 2 | PIN, frame anchor, rear |
| 11 | 3017556 | 2 | NUT, elastic stop |
| 12 | 626590 | - | SHIM, rear anchor pin (Use as required) |
| 13 | 626587 | 2 | BUSHING, rear anchor pin (tapered) |
| 14 | 626588 | 2 | BUSHING, rear anchor pin (straight) |
| 15 | 626591 | 2 | *GUSSET, frame lug |
| 16 | 626581 | 1 | *LUG, frame mounting, left |
| | 626582 | 1 | *LUG, frame mounting, right |
| 17 | 626506 | 1 | *STABILIZER, frame |
| 18 | 626542 | 6 | PIN (2"NF) |
| 19 | 626543 | 4 | WASHER, plain |
| 20 | 918530 | 6 | NUT, slotted, 2"NF |
| | 904015 | 6 | PIN, cotter, 3/8" x 3-1/2" |
| 21 | 626505 | 2 | BRACKET, hose supporting |
| | 035892 | 4 | CAPSCREW, 1/2"NF x 2-1/2" |
| | 910244 | 4 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | NUT, 1/2"NF |
| 22 | 626502 | 2 | SHIM, hose bracket |
| 23 | 627877 | 1 | PLATE, protecting, left |
| | 627878 | 1 | PLATE, protecting, right |
| 24 | 036034 | 4 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 044973 | 4 | WASHER, plain |
| 25 | 627881 | 1 | ANGLE, protecting plate, left |
| | 627882 | 1 | ANGLE, protecting plate, right |
| 26 | 036034 | 4 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 044973 | 4 | WASHER, plain |
| 27 | 627879 | 2 | PLATE, protecting |
| | 036032 | 4 | CAPSCREW, 3/8"NF x 3/4" |
| | 904206 | 4 | LOCKWASHER, 3/8" |

Not original equipment

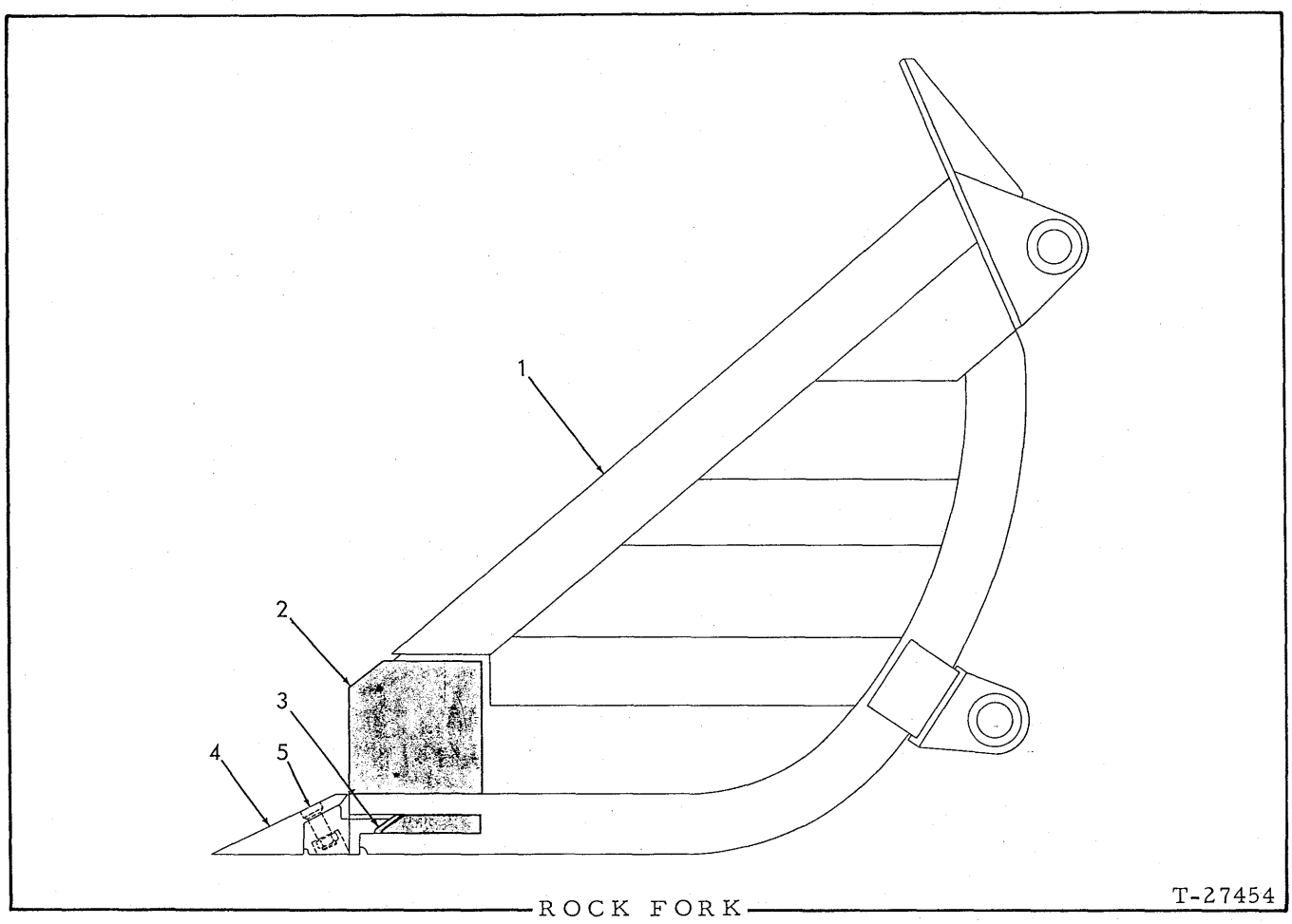
*Require welding to install




SHOVEL BUCKETS T-36245

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | ------ | 1 | BUCKET ASSEMBLY, standard (Order BUCKET ASSEMBLY 623542) | Also see PIN KIT 621665 |
| | 623542 | 1 | BUCKET ASSEMBLY, general purpose (Includes items 3, 4 and 9) | |
| 2 | 622948 | 1 | BUCKET ASSEMBLY, slag (Includes items 5 thru 8) | |
| 3 | 626783 | 1 | *BIT, left end | For standard and general purpose buckets only |
| | 626784 | 1 | *BIT, right end | |
| 4 | 626789 | 1 | *EDGE, cutting (1" thick, 105-1/4" long) | |
| 5 | 627112 | 1 | *EDGE, cutting, top | For slag bucket only |
| 6 | 627107 | 1 | *EDGE, cutting, left side | |
| | 627108 | 1 | *EDGE, cutting, right side | |
| 7 | 627111 | 6 | *TOOTH, side positions | |
| 8 | 627115 | 1 | *TOOTH, center position | |
| 9 | 627121 | 8 | TOOTH ASSEMBLY (Includes hardware indented below)(For standard and general purpose buckets) | |
| 10 | 636512 | 8 | CAPSCREW, 1"NC x 3-3/4" | |
| 11 | 636513 | 8 | CAPSCREW, 1"NC x 5-1/2" | |
| | 910916 | 16 | LOCKWASHER, 1" | |
| | 911032 | 16 | NUT, 1"NC | |
| 12 | 635463 | 1 | *TIP, bucket corner, left | Not original equipment. For standard and general purpose buckets only |
| | 635464 | 1 | *TIP, bucket corner, right | |

*Require welding to install

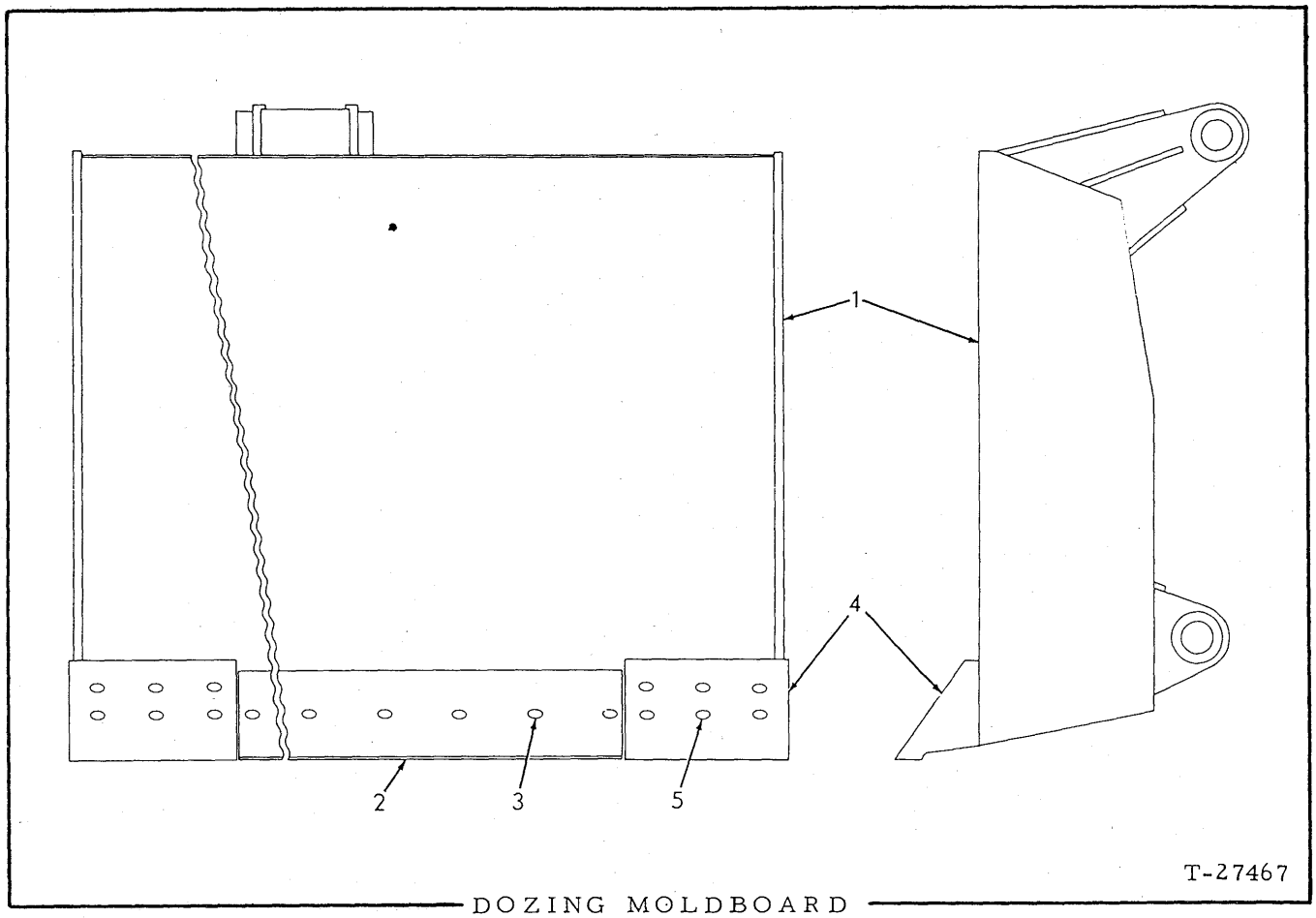



ROCK FORK

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | ------ | 1 | ROCK FORK ASSEMBLY (Discontinued) | |
| 2 | 3008699 | 1 | BIT, corner, left | Require welding to install |
| | 3008700 | 1 | BIT, corner, right | |
| 3 | 3008703 | 7 | EDGE, cutting (1" thick x 12-1/4") | |
| 4 | 627172 | * | TOOTH ASSEMBLY, fork (Includes hardware indented below) | |
| 5 | 627145 | 1 | CAPSCREW, 1"NC x 3" | Quantities indicated are for one (1) Tooth Assembly only |
| | 910916 | 1 | LOCKWASHER, 1" | |
| | 912908 | 1 | NUT, 1"NC | |

*NOTE: Teeth required for Rock Fork

| SPACING | TEETH |
|---|---|
| 7" | 11 |
| 12" | 8 |

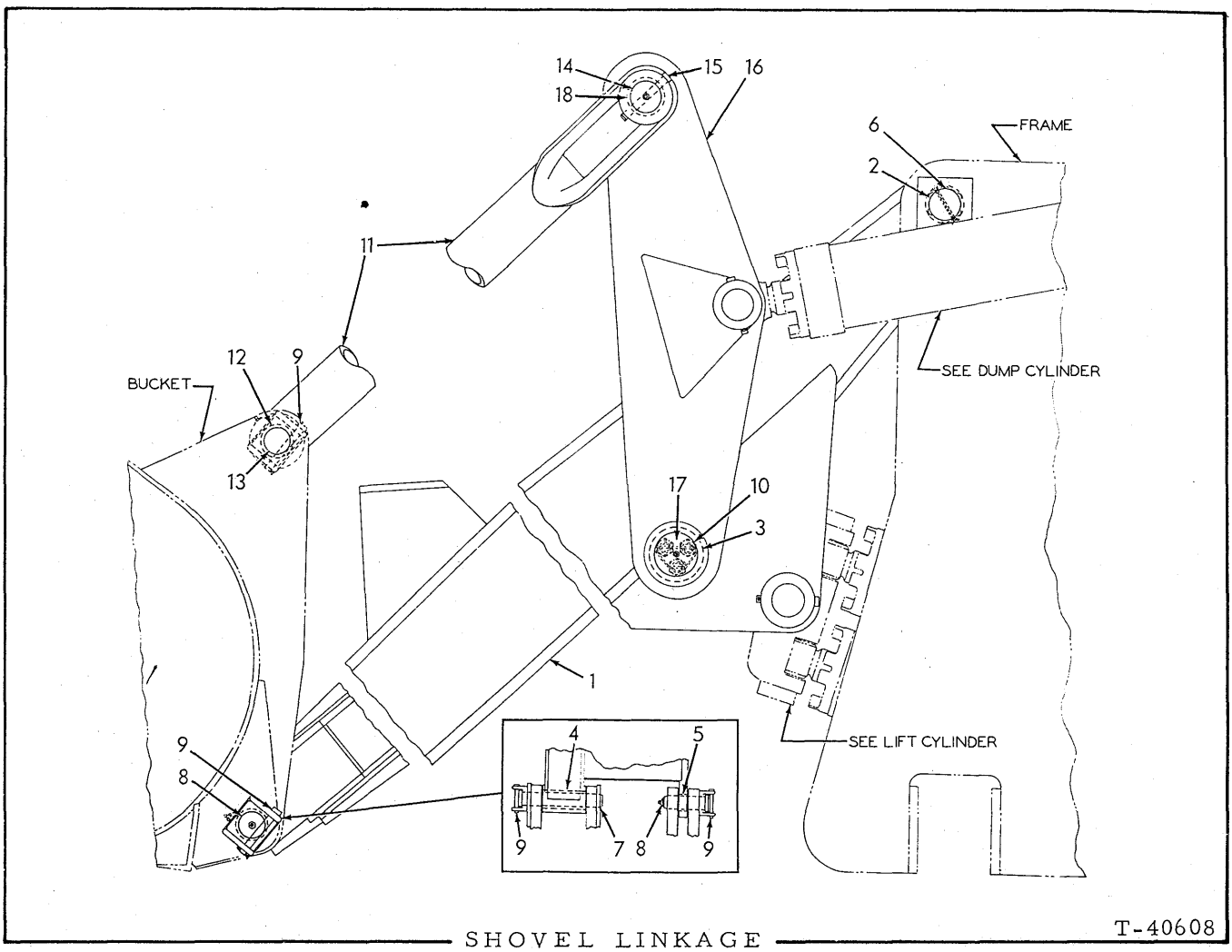



DOZING MOLDBOARD

USAGE: Special equipment. Replaces standard shovel bucket

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 076415 | 1 | MOLDBOARD ASSEMBLY (Includes items 2 thru 5) |
| 2 | 627196 | 1 | EDGE, cutting |
| 3 | 627907 | 20 | BOLT, plow, 3/4"NC x 3-1/2" |
| | 904369 | 20 | LOCKWASHER, 3/4" |
| | 911030 | 20 | NUT, 3/4"NC |
| 4 | 627197 | 1 | BIT, end, left side |
| | 627198 | 1 | BIT, end, right side |
| 5 | 627907 | 12 | BOLT, plow, 3/4"NC x 3-1/2" |
| | 904369 | 12 | LOCKWASHER, 3/4" |
| | 911030 | 12 | NUT, 3/4"NC |

MEMO




SHOVEL LINKAGE

*Used prior to shovel serial No. 155
**Effective with shovel serial No. 155

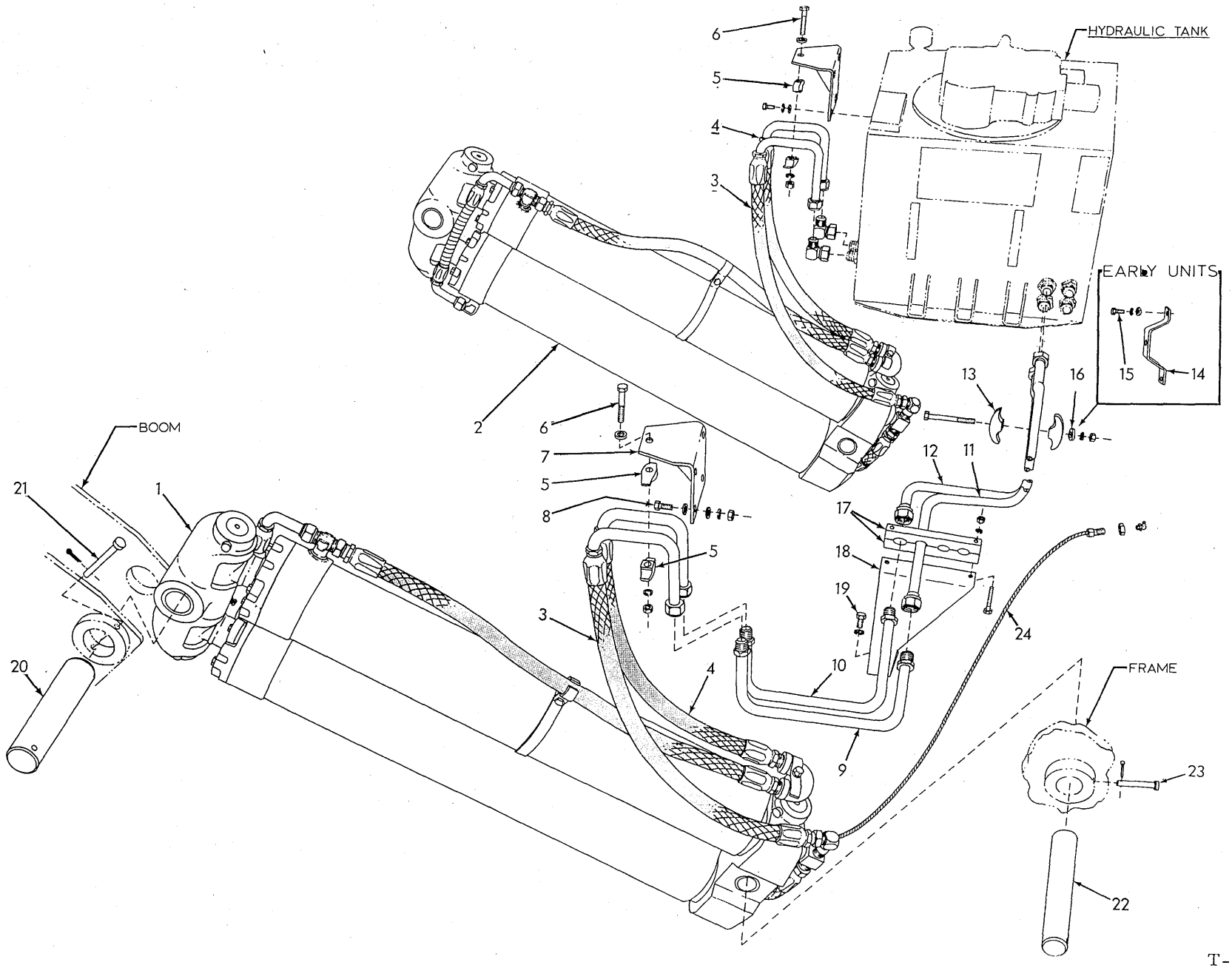
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION | |
|---|---|---|---|---|---|
| 1 | 626745 | 1 | 1 | BOOM ASSEMBLY, left | Includes items 2 thru 5 |
| | 915276 | 1 | 1 | FITTING, lubricating, 90°, 1/8"NPT | |
| | 914465 | 1 | 1 | FITTING, lubricating, straight, 1/8"NPT | |
| | 626746 | 1 | 1 | BOOM ASSEMBLY, right | |
| | 915276 | 1 | 1 | FITTING, lubricating, 90°, 1/8"NPT | |
| | 914465 | 1 | 1 | FITTING, lubricating, straight, 1/8"NPT | |
| 2 | 3020542 | 4 | - | BUSHING, boom upper end | |
| | 626805 | - | 4 | BUSHING, boom upper end | |
| 3 | 626802 | 4 | 4 | BUSHING, boom center | |
| 4 | 3004981 | 4 | 4 | BUSHING, boom lower end, inner | |
| 5 | 3001119 | 2 | 2 | BUSHING, boom lower end, outer | |

(Continued)

## SHOVEL LINKAGE (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 6 | 626830 | 2 | 2 | PIN, boom pivot |
| | 918530 | 2 | 2 | NUT, slotted, 2"NF |
| | 904016 | 2 | 2 | PIN, cotter, 3/8" x 4" |
| | 626543 | 2 | 2 | WASHER, plain |
| 7 | 627899 | 2 | - | PIN, bucket pivot, long (round head) |
| | 626845 | - | 2 | □PIN, bucket pivot, long (square head) |
| 8 | 627897 | 2 | - | PIN, bucket pivot, short (round head) |
| | 626821 | - | 2 | □PIN, bucket pivot, short (square head) |
| | 914465 | 2 | 2 | FITTING, lubricating, straight, 1/8"NPT |
| 9 | 3011625 | 6 | - | PIN, retaining, bucket pivot pins |
| | 3013568 | - | 6 | □PIN, retaining, bucket pivot pins |
| | 900810 | 6 | 6 | □PIN, cotter, 3/16" x 1-1/4" |
| 10 | 626829 | 2 | 2 | WASHER, cross link pivot pin |
| | 626828 | 6 | 6 | CAPSCREW, drilled-hd., 1"NF x 2-1/4" |
| | 023756 | 2 | 2 | WIRE, locking, 1/16" x 26" |
| 11 | 626822 | 2 | 2 | LINK ASSEMBLY, dump (Includes item 12) |
| | 914465 | 2 | 2 | FITTING, lubricating, straight, 1/8"NPT |
| 12 | 626824 | 4 | 4 | BUSHING, dump link |
| 13 | 627898 | 2 | - | PIN, dump link, front |
| | 626820 | - | 2 | □PIN, dump link, front |
| 14 | 626844 | 2 | 2 | PIN, dump link, rear |
| | 914465 | 2 | 2 | FITTING, lubricating, straight, 1/8"NPT |
| 15 | 626866 | 2 | 2 | PIN, retaining, dump link rear pin |
| | 900810 | 2 | 2 | PIN, cotter, 3/16" x 1-1/4" |
| 16 | 626833 | 1 | 1 | LINK ASSEMBLY, cross, left side (Includes items 17 and 18) |
| | 914465 | 1 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| | 626834 | 1 | 1 | LINK ASSEMBLY, cross, right side |
| | 914465 | 1 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| 17 | 626840 | 2 | 2 | PIN, cross link pivot (Requires welding to install) |
| 18 | 626637 | 2 | 2 | BUSHING, cross link |

□Also see PACKAGED PARTS



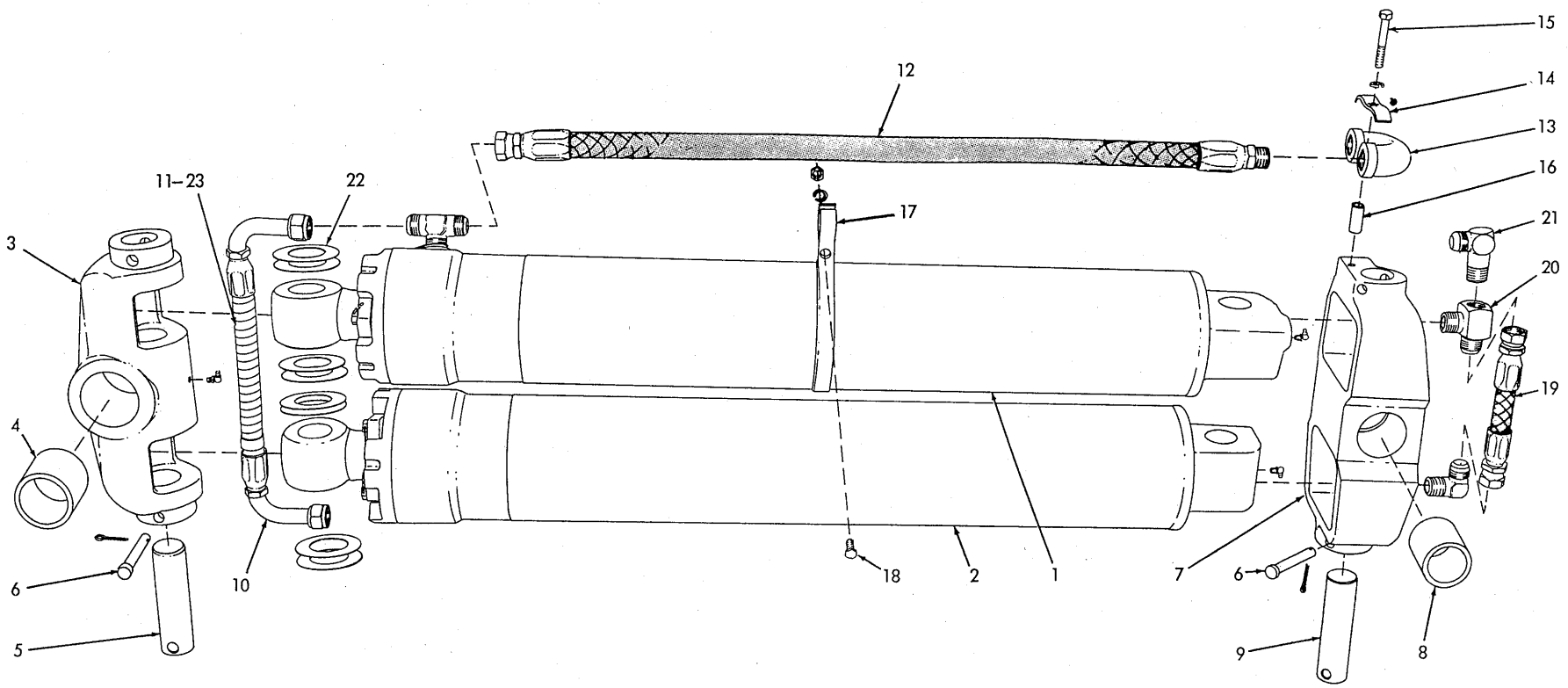

T-71918

LIFT CYLINDERS AND LINES

# LIFT CYLINDERS AND LINES

* Used prior to shovel serial No. 159
** Effective with shovel serial No. 159

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | ------ | 1 | 1 | CYLINDER ASSEMBLY, left } See page 605 for details |
| 2 | ------ | 1 | 1 | CYLINDER ASSEMBLY, right } |
| 3 | 626630 | 2 | 2 | HOSE ASSEMBLY, raise line (See page 6 for parts) |
| | 919625 | 1 | 1 | ELBOW, swivel, 90°, 1" tube (right side only)(Effective with shovel #111) |
| 4 | 626626 | 2 | 2 | HOSE ASSEMBLY, drop line (See page 6 for parts) |
| | 919625 | 1 | 1 | ELBOW, swivel, 90°, 1" tube (right side only)(Effective with shovel #111) |
| 5 | 624931 | 4 | 4 | CLAMP, hose supporting |
| 6 | 070403 | 2 | 2 | CAPSCREW, 1/2"NF x 3" |
| | 910244 | 2 | 2 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | NUT, 1/2"NF |
| 7 | 626517 | 2 | 2 | BRACKET, hose supporting |
| 8 | 070467 | 8 | 8 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 8 | 8 | LOCKWASHER, 1/2" |
| | 910244 | 12 | 12 | WASHER, plain, SAE std., 1/2" |
| | 911043 | 4 | 4 | NUT, 1/2"NF |
| 9 | 3035510 | 1 | - | TUBE ASSEMBLY, left cylinder raise line, outer (Includes nut)(Used prior to shovel #111. If making first replacement also order UNION 919268) |
| | 3035514 | 1 | - | TUBE ASSEMBLY, left cylinder raise line, outer (Includes nut) (Effective with shovel #111. If making first replacement also order UNION 919268) |
| | 626523 | - | 1 | TUBE ASSEMBLY, left cylinder raise line, outer |
| | 919268 | 1 | - | UNION, flare type, 1" tube (Not original equipment) |
| 10 | 3035512 | 1 | - | TUBE ASSEMBLY, left cylinder drop line, outer (Includes nut)(If making first replacement also order UNION 919268) |
| | 919268 | 1 | - | UNION, flare type, 1" tube (Not original equipment) |
| | 626526 | - | 1 | TUBE ASSEMBLY, left cylinder drop line, outer |
| 11 | 3011340 | 1 | - | TUBE ASSEMBLY, left cylinder raise line, inner (Includes nuts) |
| | 626521 | - | 1 | TUBE ASSEMBLY, left cylinder raise line, inner (Includes nuts) |
| 12 | 3011338 | 1 | - | TUBE ASSEMBLY, left cylinder drop line, inner (Includes nuts) |
| | 626522 | - | 1 | TUBE ASSEMBLY, left cylinder drop line, inner (Includes nuts) |
| 13 | 624931 | 2 | 2 | CLAMP, tube supporting |
| | 920604 | 1 | 1 | CAPSCREW, 1/2"NF x 5-1/4" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 14 | 3010920 | 1 | - | BRACKET, tube supporting (Used prior to shovel #111) |
| | 3019420 | 1 | - | BRACKET, tube supporting (Effective with shovel #111) |
| 15 | 036034 | 2 | - | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| | 911115 | 2 | - | WASHER, plain, SAE std., 3/8" |
| 16 | 064813 | - | 1 | SPACER, hose clamp |
| 17 | 626518 | - | 2 | CLAMP, tube supporting |
| | 917038 | - | 2 | CAPSCREW, 3/8"NF x 3" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| | 911041 | - | 2 | NUT, 3/8"NF |
| 18 | 626514 | - | 1 | BRACKET, tube supporting clamp |
| 19 | 070590 | - | 2 | CAPSCREW, 5/8"NF x 1-1/8" |
| | 904209 | - | 2 | LOCKWASHER, 5/8" |
| 20 | 626867 | 2 | 2 | PIN, front |
| 21 | 626866 | 2 | 2 | PIN, retaining, front pin |
| | 900810 | 2 | 2 | PIN, cotter, 3/16" x 1-1/4" |
| 22 | 626848 | 2 | 2 | PIN, rear |
| 23 | 3011625 | 2 | 2 | PIN, retaining, rear pin |
| | 900810 | 2 | 2 | PIN, cotter, 3/16" x 1-1/4" |
| 24 | 626618 | 2 | 2 | TUBE, flexible, rear pin lubricating |
| | 911049 | 2 | 2 | NUT, jam, 5/8"NF |
| | 915276 | 2 | 2 | FITTING, lubricating, 90°, 1/8"NPT |
| | 915399 | 2 | 2 | ELBOW, street, brass, 90°, 1/8"NPT |




T-40570

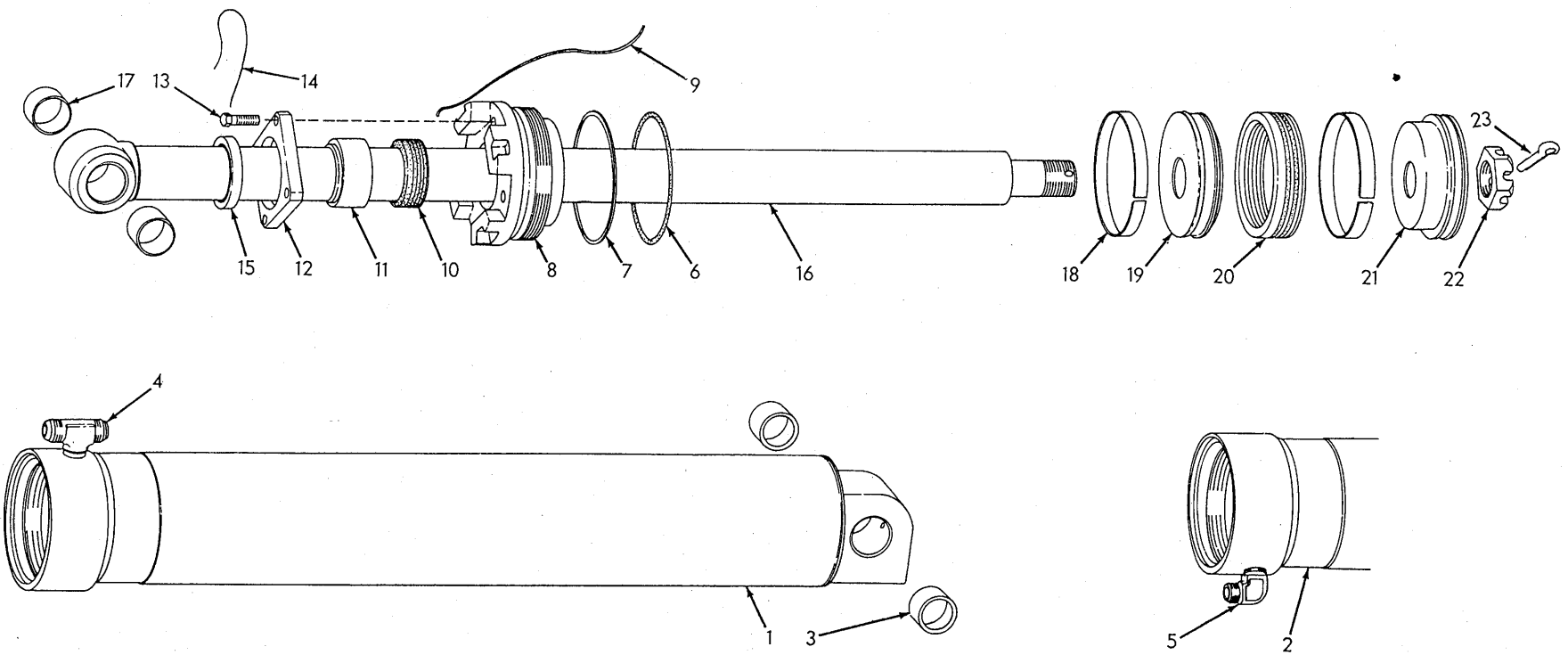
LIFT CYLINDERS

# LIFT CYLINDERS

* Left side
** Right side
} See page 603

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 626647 | 1 | - | CYLINDER ASSEMBLY, upper |
| | 915276 | 1 | - | FITTING, lubricating, 90°, 1/8"NPT |
| | 626648 | - | 1 | CYLINDER ASSEMBLY, upper |
| | 915276 | - | 1 | FITTING, lubricating, 90°, 1/8"NPT |
| 2 | 626653 | 1 | - | CYLINDER ASSEMBLY, lower |
| | 915276 | 1 | - | FITTING, lubricating, 90°, 1/8"NPT |
| | 626654 | - | 1 | CYLINDER ASSEMBLY, lower |
| | 915276 | - | 1 | FITTING, lubricating, 90°, 1/8"NPT |
| 3 | 626636 | 1 | 1 | YOKE ASSEMBLY, front (Includes item 4) |
| | 915276 | 1 | 1 | FITTING, lubricating, 90°, 1/8"NPT |
| 4 | 626637 | 2 | 2 | BUSHING, front yoke |
| 5 | 626624 | 2 | 2 | PIN, front yoke |
| 6 | 626625 | 4 | 4 | PIN, retaining, yoke pin |
| | 900810 | 4 | 4 | PIN, cotter, 3/16" x 1-1/4" |
| 7 | 626860 | 1 | 1 | YOKE ASSEMBLY, rear (Includes item 8) |
| 8 | 3004981 | 2 | 2 | BUSHING, rear yoke |
| 9 | 626621 | 2 | 2 | PIN, rear yoke |
| 10 | 626628 | 1 | 1 | HOSE ASSEMBLY, cylinder connecting, front (See page 6 for parts. Also includes item 11) |
| 11 | ------ | 1 | 1 | GUARD, hose protecting (11-3/4" long. Order item 23) |
| 12 | 626632 | 1 | 1 | HOSE ASSEMBLY, tee to return bend, drop line (See page 6 for parts) |
| 13 | 626622 | 1 | 1 | BEND, return |
| 14 | 626623 | 1 | 1 | CLAMP, return bend |
| 15 | 070403 | 1 | 1 | CAPSCREW, 1/2"NF x 3" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| 16 | 626635 | 1 | 1 | SPACER, return bend clamp |
| 17 | 626631 | 1 | 1 | CLAMP, hose supporting |
| 18 | 035018 | 1 | 1 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 19 | 626617 | 1 | 1 | HOSE ASSEMBLY, cylinder connecting, rear (See page 6 for parts) |
| | 920686 | 1 | 1 | ELBOW, flare type, 90°, 1" tube, 1"NPT male |
| 20 | 626634 | 1 | 1 | TEE, cylinder connecting hose |
| 21 | 626633 | 1 | 1 | ELBOW, cylinder connecting hose |
| 22 | 637366 | 8 | 8 | SHIM, cylinder rod (Use as required) |
| 23 | 3016477 | - | - | GUARD, hose, 1-7/32" O.D., 14 ft. roll (Use as required) |

} See page 607 for parts



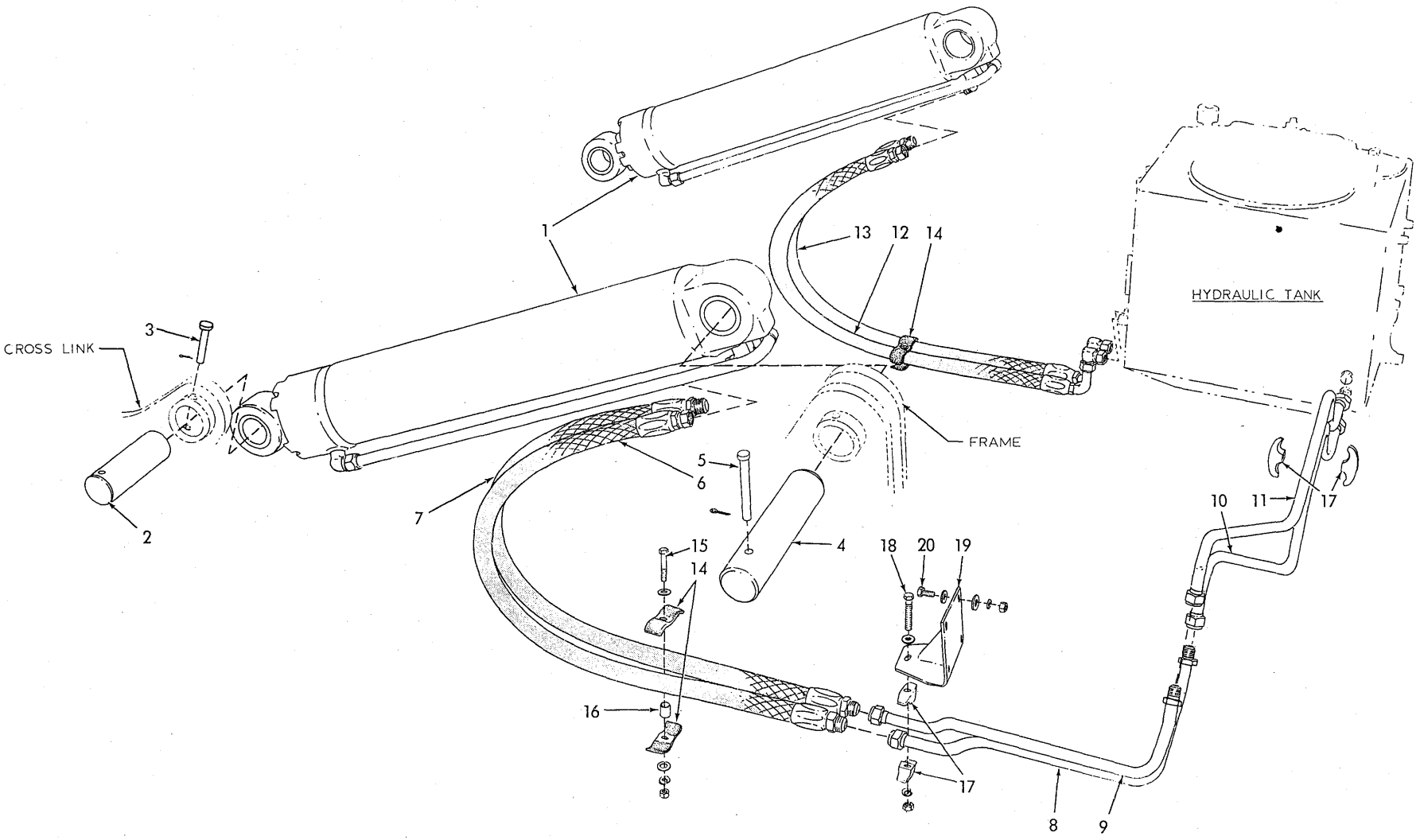

LIFT CYLINDER PARTS

T-39366

# LIFT CYLINDER PARTS

626647 CYLINDER ASSEMBLY
626648 CYLINDER ASSEMBLY
626653 CYLINDER ASSEMBLY
626654 CYLINDER ASSEMBLY
} See page 605

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities listed are for one (1) cylinder only |
| 1 | 636525 | 1 | CYLINDER ASSEMBLY, upper left } Each includes items 3 and 4 |
| | 636526 | 1 | CYLINDER ASSEMBLY, upper right |
| 2 | 636531 | 1 | CYLINDER ASSEMBLY, lower left } Each includes items 3 and 5 |
| | 636532 | 1 | CYLINDER ASSEMBLY, lower right |
| 3 | 3001066 | 2 | BUSHING, cylinder pivot |
| 4 | 626642 | 1 | TEE, hose connection } Require welding to install |
| 5 | 626561 | 1 | ELBOW, hose connection |
| 6 | 924166 | 1 | O-RING, cylinder head } See item 24 |
| 7 | 3012554 | 1 | RING, back-up, cylinder head o-ring |
| 8 | 3012756 | 1 | HEAD, cylinder |
| 9 | 023756 | 1 | WIRE, locking, cylinder head (1/16" x 26") |
| 10 | 3008144 | 1 | PACKING SET, piston rod } See item 24 |
| 11 | 626553 | 1 | BUSHING, piston rod packing |
| 12 | 3012753 | 1 | PLATE, packing adjustment |
| 13 | 035814 | 4 | CAPSCREW, drilled-hd., 1/2"NC x 1-3/4" } See item 24 |
| 14 | 023756 | 1 | WIRE, locking, 1/16" x 26" |
| 15 | 227072 | 1 | SEAL, wiping, piston rod (See item 24) |
| 16 | 626646 | 1 | ROD ASSEMBLY, piston (Includes item 17) |
| 17 | 3001066 | 2 | BUSHING, piston rod |
| 18 | 3008159 | 2 | RING, piston bearing (See item 24) |
| 19 | 3008158 | 1 | PISTON, front |
| 20 | 3008160 | 1 | PACKING SET, piston (See item 24) |
| 21 | 3008165 | 1 | PISTON, rear |
| 22 | 922271 | 1 | NUT, piston rod (2-1/4"NF) |
| 23 | 911699 | 1 | PIN, cotter, 3/8" x 3-1/4" (See item 24) |
| 24 | 3013194 | - | REPAIR KIT, (Includes parts for one (1) cylinder only; item 6, 7, 10, 11, 13, 14, 15, 18, 20 and 23)(Not illustrated) |



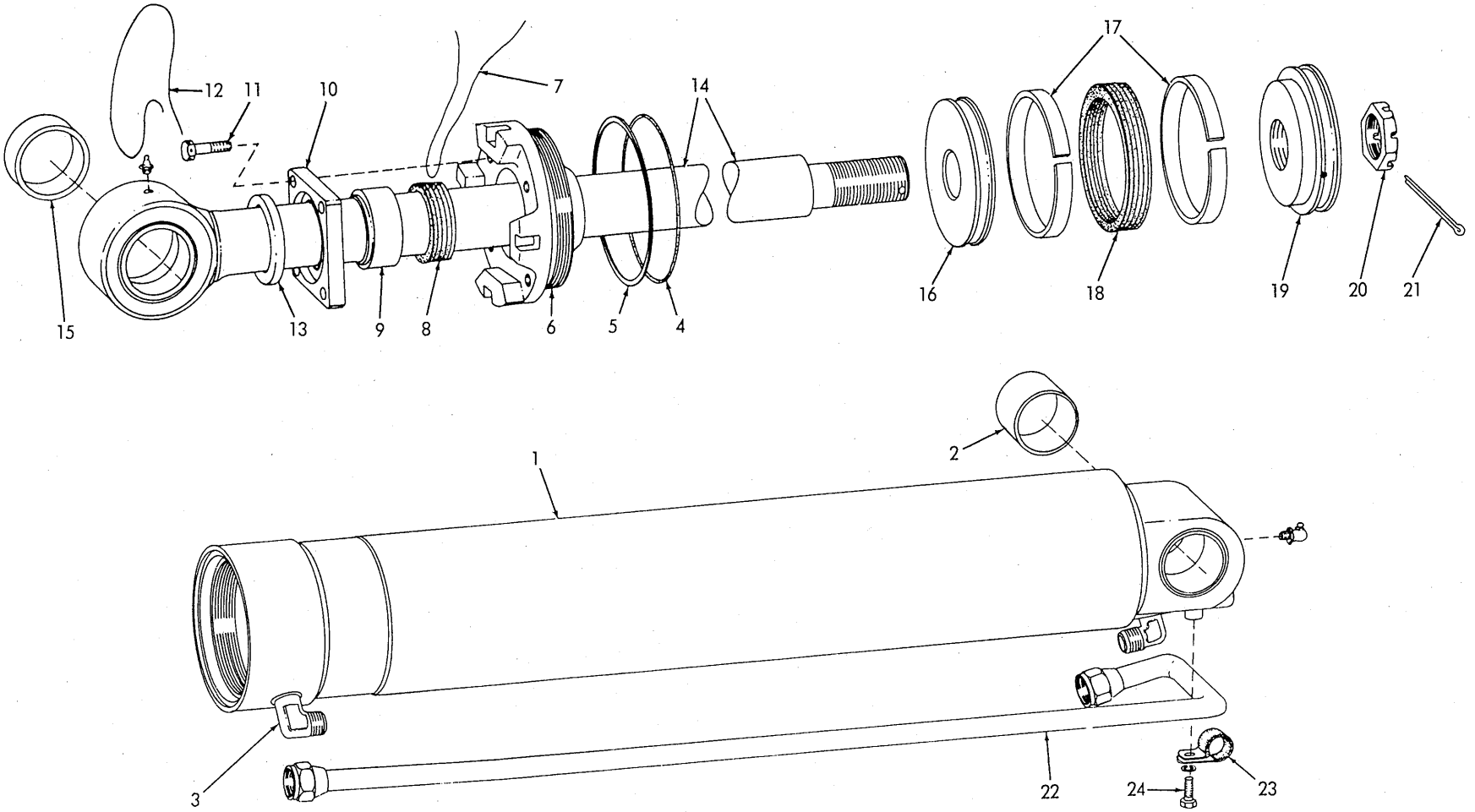

DUMP CYLINDERS AND LINES

T-40567

# DUMP CYLINDERS AND LINES

* Used prior to shovel serial No. 159
** Effective with shovel serial No. 159

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 626552 | 2 | 2 | CYLINDER ASSEMBLY (See page 611 for parts) |
| 2 | 626843 | 2 | 2 | PIN, front pivot |
| 3 | 3013568 | 2 | 2 | PIN, retaining, front pivot pin |
| | 900810 | 2 | 2 | PIN, cotter, 3/16" x 1-1/4" |
| 4 | 626846 | 2 | 2 | PIN, rear pivot |
| 5 | 626847 | 2 | 2 | PIN, retaining, rear pivot pin |
| | 900810 | 2 | 2 | PIN, cotter, 3/16" x 1-1/4" |
| 6 | 626536 | 1 | 1 | HOSE ASSEMBLY, left cylinder dump line (See page 6 for parts) |
| 7 | 626535 | 1 | 1 | HOSE ASSEMBLY, left cylinder retract line (See page 6 for parts) |
| 8 | 3035511 | 1 | - | TUBE ASSEMBLY, left cylinder dump line, outer (Includes nuts) (Used prior to shovel #111. If making first replacement also order UNION 919268) |
| | 3035515 | 1 | - | TUBE ASSEMBLY, left cylinder dump line, outer (Includes nuts) (Effective with shovel #111. If making first replacement also order UNION 919268) |
| | 626524 | - | 1 | TUBE ASSEMBLY, left cylinder dump line, outer (Includes nut) |
| | 919268 | 1 | - | UNION, flare type, 1" tube (Not original equipment) |
| 9 | 3035513 | 1 | - | TUBE ASSEMBLY, left cylinder retract line, outer (Includes nuts) (Used prior to shovel #111. If making first replacement also order 919268) |
| | 3035516 | 1 | - | TUBE ASSEMBLY, left cylinder retract line, outer (Includes nuts) (Effective with shovel #111. If making first replacement also order UNION 919268) |
| | 626525 | - | 1 | TUBE ASSEMBLY, left cylinder retract line, outer (Includes nut) |
| | 919268 | 1 | - | UNION, flare type, 1" tube (Not original equipment) |
| 10 | 3011342 | 1 | - | TUBE ASSEMBLY, left cylinder dump line, inner (Includes nuts) |
| | 626520 | - | 1 | TUBE ASSEMBLY, left cylinder dump line, inner (Includes nuts) |
| 11 | 3011344 | 1 | - | TUBE ASSEMBLY, left cylinder retract line, inner (Includes nuts) |
| | 626519 | - | 1 | TUBE ASSEMBLY, left cylinder retract line, inner (Includes nuts) |
| 12 | 626508 | 1 | 1 | HOSE ASSEMBLY, right cylinder dump line (See page 6 for parts) |
| | 919625 | 1 | 1 | ELBOW, swivel, 90°, 1" tube (Effective with shovel #111) |
| 13 | 626509 | 1 | 1 | HOSE ASSEMBLY, right cylinder retract line (See page 6 for parts) |
| | 919625 | 1 | 1 | ELBOW, swivel, 90°, 1" tube (Effective with shovel #111) |
| 14 | 625221 | 4 | 4 | CLAMP, hose supporting |
| 15 | 035278 | 2 | 2 | CAPSCREW, 1/2"NF x 2-3/4" |
| | 910244 | 4 | 4 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 911043 | 2 | 2 | NUT, 1/2"NF |
| 16 | 626537 | 2 | 2 | SPACER, hose clamp |
| 17 | 624931 | 4 | 4 | CLAMP, tube supporting |
| 18 | 070403 | 1 | 1 | CAPSCREW, 1/2"NF x 3" |
| | 910244 | 1 | 1 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 19 | 626517 | 1 | 1 | BRACKET, tube supporting |
| 20 | 070467 | 4 | 4 | CAPSCREW, 1/2"NF x 1" |
| | 910244 | 8 | 8 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | NUT, 1/2"NF |



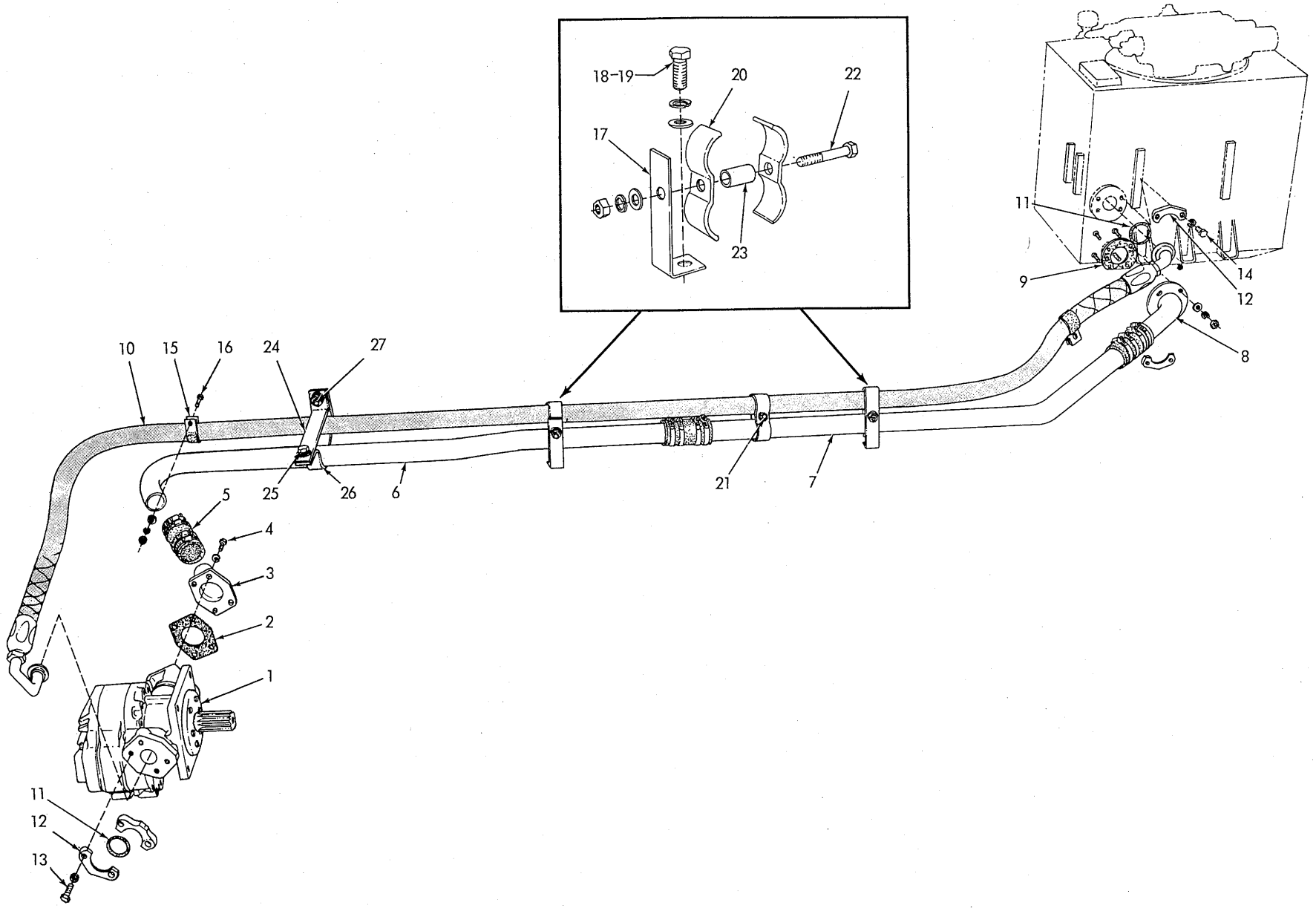

T-39368

DUMP CYLINDER ASSEMBLY 626552

# DUMP CYLINDER ASSEMBLY 626552

USAGE: See page 609

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities indicated are for one (1) cylinder only |
| 1 | 636550 | 1 | CYLINDER ASSEMBLY, (Includes items 2 and 3) |
| | 915276 | 1 | FITTING, lubricating, 90°, 1/8"NPT |
| 2 | 3008174 | 2 | BUSHING, cylinder pivot |
| 3 | 626561 | 2 | ELBOW, tube connection (Requires welding to install) |
| 4 | 924166 | 1 | O-RING, cylinder head } See item 25 |
| 5 | 3012554 | 1 | RING, back-up, cylinder head o-ring } See item 25 |
| 6 | 3012756 | 1 | HEAD, cylinder |
| 7 | 023756 | 1 | WIRE, locking, cylinder head (1/16" x 26") |
| 8 | 3008144 | 1 | PACKING SET, piston rod } See item 25 |
| 9 | 626553 | 1 | BUSHING, piston rod packing } See item 25 |
| 10 | 3012753 | 1 | PLATE, packing adjustment |
| 11 | 035814 | 4 | CAPSCREW, drilled-hd., 1/2"NC x 1-3/4" } See item 25 |
| 12 | 023756 | 1 | WIRE, locking, 1/16" x 26" } See item 25 |
| 13 | 227072 | 1 | SEAL, wiping, piston rod (See item 25) |
| 14 | 626549 | 1 | ROD ASSEMBLY, piston (Original equipment) } Includes item 15 |
| | 626893 | 1 | ROD ASSEMBLY, piston (Service replacement) } Includes item 15 |
| | 914465 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| 15 | 3008156 | 1 | BUSHING, piston rod |
| 16 | 3008158 | 1 | PISTON, front |
| 17 | 3008159 | 2 | RING, piston bearing } See item 25 |
| 18 | 3008160 | 1 | PACKING SET, piston } See item 25 |
| 19 | 3008165 | 1 | PISTON, rear (No threads. Original equipment) |
| | 626896 | 1 | PISTON, rear (Threaded. Used with service replacement rod only) |
| 20 | 922271 | 1 | NUT, piston rod (2-1/4"NF) |
| 21 | 911699 | 1 | PIN, cotter, 3/8" x 3-1/4" (See item 25) |
| 22 | 626554 | 1 | TUBE ASSEMBLY, oil (Includes nuts) |
| 23 | 3011248 | 1 | CLIP, tube supporting |
| 24 | 036034 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 25 | 3013194 | - | REPAIR KIT (Includes parts for one (1) cylinder only; items 4, 5, 8, 9, 11, 12, 13, 17, 18 and 21)(Not illustrated) |

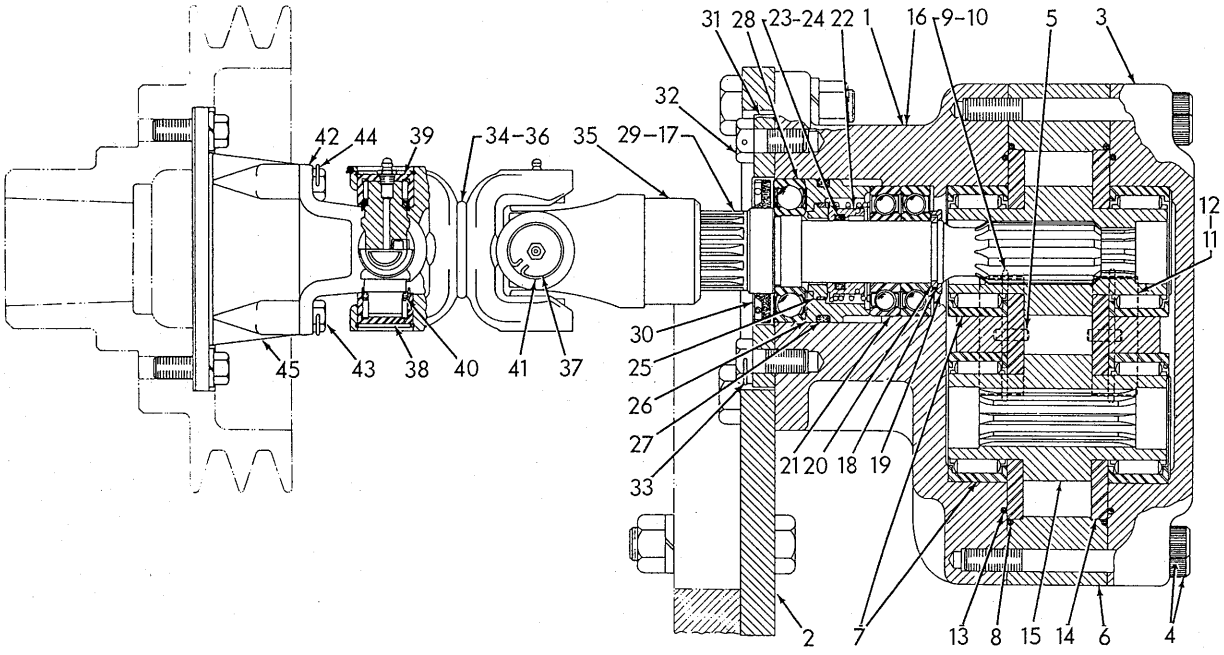



T-71920

SHOVEL HYDRAULIC PUMP AND LINES

# SHOVEL HYDRAULIC PUMP AND LINES

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | - | PUMP ASSEMBLY, hydraulic (See pages 614 and 619) |
| 2 | 626534 | 1 | GASKET, return line adapter |
| 3 | 626533 | 1 | ADAPTER, return line |
| 4 | 035061 | 4 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 5 | 626532 | 3 | HOSE, return line |
| | 921913 | 12 | CLAMP, hose, 1-13/16" to 2-3/4" diam. |
| 6 | 626531 | 1 | TUBE, return line, front |
| 7 | 626530 | 1 | TUBE, return line, rear |
| 8 | 626512 | 1 | ELBOW, return line |
| | 911115 | 4 | WASHER, plain, SAE std., 3/8" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 911026 | 4 | NUT, 3/8"NC |
| 9 | 626513 | 1 | GASKET, return line elbow |
| 10 | 626507 | 1 | HOSE ASSEMBLY, pressure line (See page 6 for parts) |
| 11 | 923578 | 2 | O-RING, pressure line hose |
| 12 | 921118 | 4 | FLANGE, hose attaching (half only) |
| 13 | 035061 | 4 | CAPSCREW, 1/2"NC x 1-1/4" (pump end) |
| 14 | 070469 | 4 | CAPSCREW, 1/2"NF x 1-1/4" (tank end) |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 15 | 3012545 | 2 | CLAMP, pressure line hose |
| 16 | 035018 | 1 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | NUT, 1/2"NF |
| 17 | 626527 | 2 | BRACKET, line supporting |
| 18 | 035018 | 1 | CAPSCREW, 1/2"NF x 1-1/2" } rear |
| | 904208 | 1 | LOCKWASHER, 1/2" } rear |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" } rear |
| 19 | 035014 | 1 | CAPSCREW, 5/8"NF x 1-1/2" } front |
| | 904209 | 1 | LOCKWASHER, 5/8" } front |
| | 911100 | 1 | WASHER, plain, SAE std., 5/8" } front |
| 20 | 626528 | 6 | CLAMP, line supporting |
| 21 | 035892 | 1 | CAPSCREW, 1/2"NF x 2-1/2" |
| 22 | 911979 | 2 | CAPSCREW, 1/2"NF x 3-1/2" |
| | 910244 | 2 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 911043 | 3 | NUT, 1/2"NF |
| 23 | 626529 | 3 | SPACER, hose clamp |
| 24 | 626538 | 1 | CLAMP, line supporting (angle type) |
| 25 | 070469 | 1 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| 26 | 626539 | 1 | CLAMP, line supporting (formed type) |
| 27 | 070469 | 1 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | NUT, 1/2"NF |




SHOVEL PUMP AND DRIVE

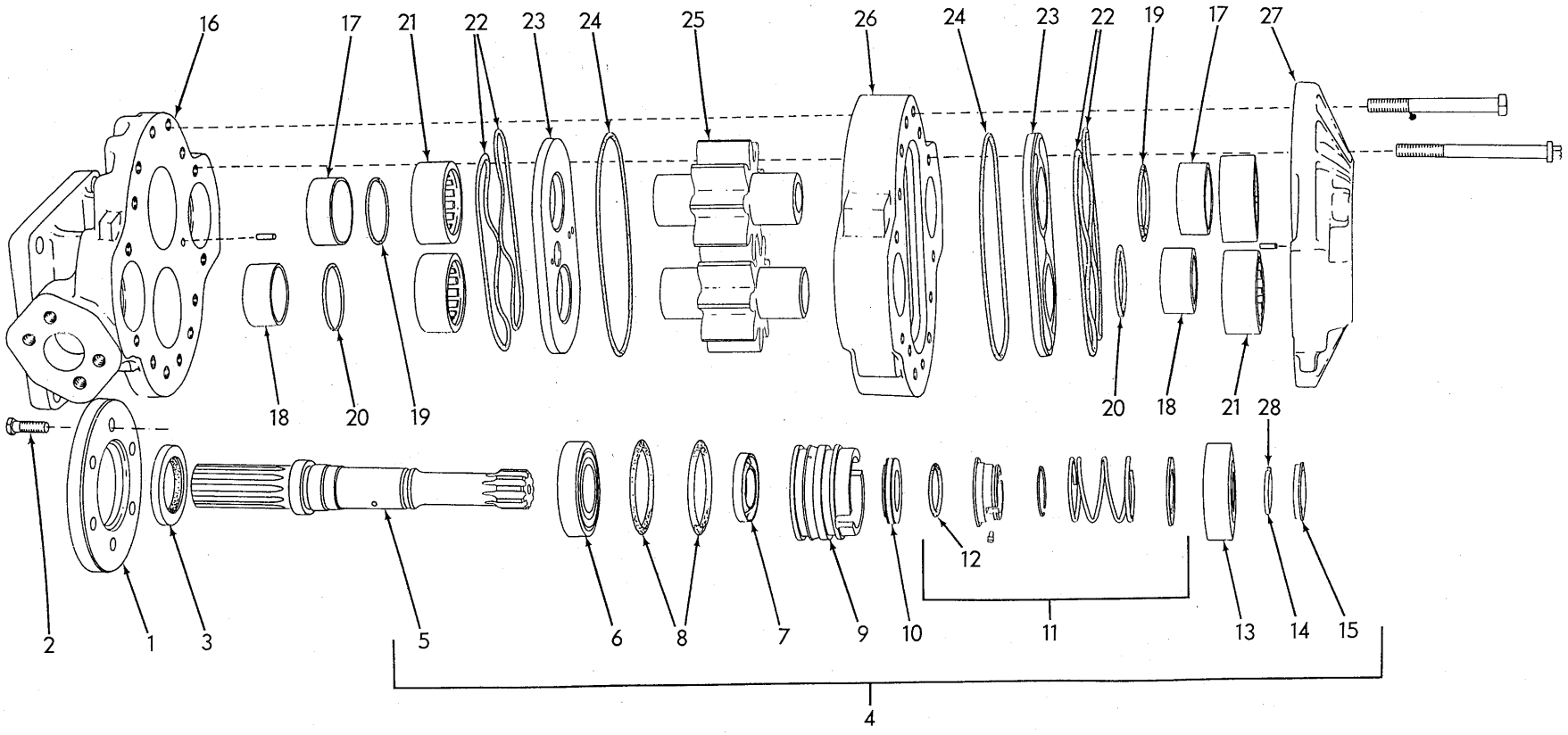
USAGE: Shovels prior to serial No. 150

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | PUMP ASSEMBLY (Includes items 3 thru 33)(Order PUMP ASSEMBLY 3028864) |
| | 916332 | 4 | CAPSCREW, 3/4"NF x 2-1/2" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| | 911045 | 4 | NUT, 3/4"NF |
| 2 | 626740 | 1 | PLATE, pump mounting |
| | 916335 | 4 | CAPSCREW, 3/4"NF x 3-1/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| | 911045 | 4 | NUT, 3/4"NF |
| 3 | 3013788 | 1 | COVER, housing |
| 4 | 3013791 | 14 | CAPSCREW, socket-hd., 1/2NF x 4-1/4" |
| 5 | 3012605 | 2 | PIN, dowel, pump housing |
| 6 | 3029708 | 1 | HOUSING, pump |
| 7 | 3029771 | 4 | BEARING, roller |
| 8 | 923596 | 2 | O-RING, pump housing |
| 9 | 923814 | 2 | O-RING, pump housing, left side |
| 10 | 923581 | 2 | O-RING, pump housing, right side |
| 11 | 3012648 | 2 | DOWEL, pump housing, left side |
| 12 | 3013790 | 2 | DOWEL, pump housing, right side |
| 13 | 3013792 | 4 | O-RING, housing covers |

(Continued)

## SHOVEL PUMP AND DRIVE (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 14 | 3013787 | 2 | PLATE, wear |
| 15 | 3041566 | 1 | GEAR SET, pump drive (Consists of 2 matching gears) |
| 16 | 3013785 | 1 | COVER, pump adapting |
| 17 | 3013784 | 1 | CARTRIDGE ASSEMBLY, drive shaft (Includes items 18 thru 33) |
| 18 | 3018581 | 1 | RING, snap, bearing retaining |
| 19 | 3018585 | 1 | WASHER, bearing retaining |
| 20 | 3018582 | - | SHIM, bearing adjusting (Use as required) |
| 21 | 3018586 | 2 | BEARING, ball, inner |
| 22 | 3011911 | 1 | SEAL ASSEMBLY, drive shaft (Includes items 23 and 24) |
| 23 | 922813 | 1 | O-RING, drive shaft seal (Also order 1 RING 3012681) |
| 24 | 3012681 | 1 | RING, back-up (Also order 1 O-RING 922813) |
| 25 | 3011910 | 1 | SEAT ASSEMBLY, drive shaft seal (Serviced only as a unit) |
| 26 | 3018583 | 1 | RETAINER, bearing and seal |
| 27 | 923597 | 1 | O-RING, bearing retainer |
| 28 | 3011952 | 1 | BEARING, ball, outer |
| 29 | 3018580 | 1 | SHAFT, drive |
| 30 | 627966 | 1 | SEAL, pump bearing |
| 31 | 3013878 | 1 | FLANGE, bearing retaining |
| 32 | 3023657 | 8 | CAPSCREW, drilled-hd., 1/2"NF x 1-1/4" |
| 33 | 3012845 | 1 | WIRE, locking, #16 x 30" |
| 34 | 3015923 | 1 | JOINT ASSEMBLY, universal (Includes items 35 thru 45) |
| | 916311 | 6 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 35 | 3010729 | 1 | YOKE, front (splined) |
| 36 | 3012175 | 1 | CENTER, double yoke |
| 37 | 3011020 | 2 | SPIDER ASSEMBLY (Includes PLUG and FITTING indented below and items 38 thru 41) |
| | 910230 | 2 | PLUG, pipe, slotted-hd., 1/8"NPT |
| | 914465 | 2 | FITTING, lubricating, straight, 1/8"NPT |
| 38 | 3011022 | 6 | BEARING ASSEMBLY, needle (Includes item 40) |
| 39 | 3011024 | 2 | BEARING ASSEMBLY, needle (Has lubricating hole)(Includes item 40) |
| 40 | 3011023 | 16 | WASHER, sealing, spider bearing |
| 41 | 3011021 | 8 | RING, snap, spider bearing |
| 42 | 3011026 | 1 | YOKE, rear (flanged) |
| 43 | 3011027 | 4 | CAPSCREW, drilled-hd., 7/16"NF x 3/4" |
| 44 | 3007380 | 2 | WIRE, locking, #16 x 12" |
| 45 | 3015865 | 1 | FLANGE, yoke attaching |




T-40582

PUMP ASSEMBLY 3028864

## PUMP ASSEMBLY 3028864

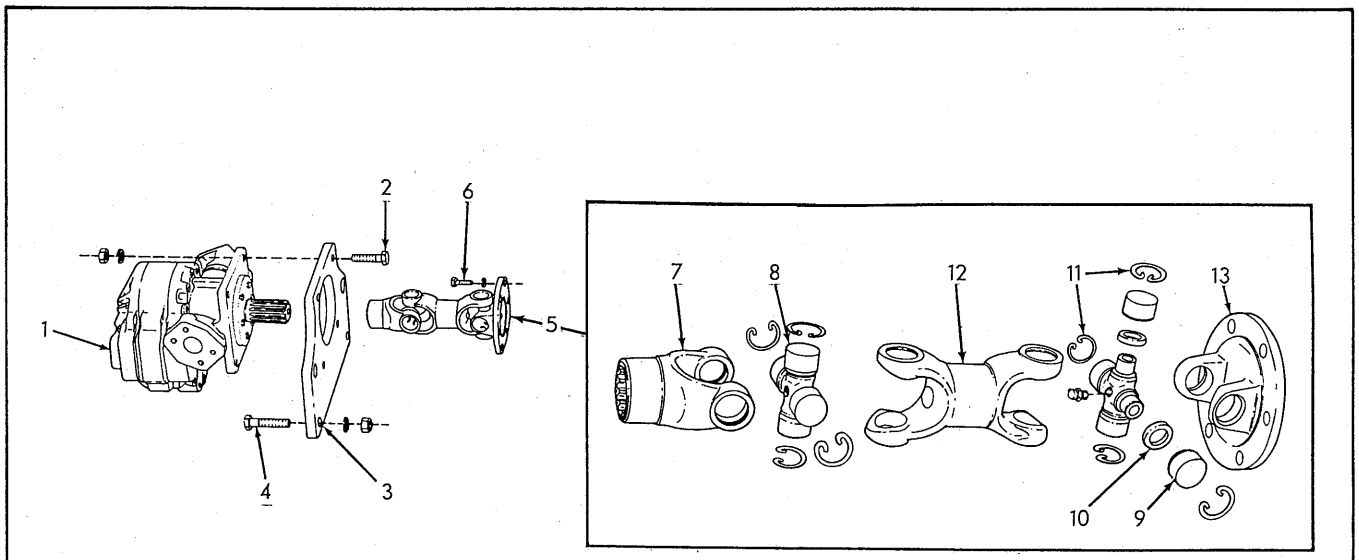
USAGE: See page 619

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | 3029715 | 1 | FLANGE, bearing retaining | |
| 2 | 3029718 | 6 | CAPSCREW | |
| 3 | 627966 | 1 | SEAL, drive shaft | |
| 4 | 3029713 | 1 | SHAFT ASSEMBLY, drive (Consists of items 5 thru 15) | |
| 5 | 3029774 | 1 | SHAFT, drive | |
| 6 | 3011952 | 1 | BEARING, ball, outboard | |
| 7 | 3029783 | 1 | SEAL, oil, outboard bearing | |
| 8 | 923597 | 2 | O-RING, bearing retainer | |
| 9 | 3029777 | 1 | RETAINER, drive shaft seal | |
| 10 | 3011910 | 1 | SEAT ASSEMBLY, drive shaft seal (Serviced only as a unit) | |
| 11 | 3023871 | 1 | SEAL ASSEMBLY, drive shaft (Serviced only as a unit. Includes item 12) | |
| 12 | 922813 | 1 | O-RING, drive shaft seal | |
| 13 | 3011878 | 1 | BEARING, ball, inboard | |
| 14 | 3029918 | 1 | RING, snap (.126" to .130" wide, green code) | Select one. Also see item 28 |
| | 3029919 | 1 | RING, snap (.134" to .138" wide, yellow code) | |
| | 3029920 | 1 | RING, snap (.142" to .146" wide, red code) | |
| | 3029921 | 1 | RING, snap (.150" to .154" wide, blue code) | |
| | 3029922 | 1 | RING, snap (.158" to .162" side, orange code) | |
| 15 | 3018585 | 1 | WASHER, retaining, drive shaft snap ring | |
| 16 | 3029770 | 1 | ADAPTER | |
| | 919347 | 1 | PIN, roll, 1/4" x 5/8" (dowel) | |
| 17 | 3013790 | 2 | DOWEL, hollow, suction side | |
| 18 | 3012648 | 2 | DOWEL, hollow, pressure side | |
| 19 | 923581 | 2 | O-RING, pump housing, suction side | |
| 20 | 923814 | 2 | O-RING, pump housing, pressure side | |
| 21 | 3029771 | 4 | BEARING, roller | |
| 22 | 3004674 | 4 | O-RING, elongated | |
| 23 | 3029714 | 2 | PLATE, wear | |
| 24 | 923596 | 2 | O-RING, pump housing | |

(Continued)

## PUMP ASSEMBLY 3028864 (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 25 | 3041566 | 1 | GEAR SET, pump drive (Consists of 2 matching gears) |
| 26 | 3029708 | 1 | HOUSING |
| 27 | 3029773 | 1 | COVER, pump housing |
| | 919347 | 1 | PIN, roll, 1/4" x 5/8" (dowel) |
| | 919236 | 10 | CAPSCREW, 1/2"NF x 4" |
| | 919177 | 4 | CAPSCREW, 1/2"NF x 4-1/2" |
| 28 | 3029778 | - | RING SET, snap (Consists of 1 each of snap rings listed under item 14) |

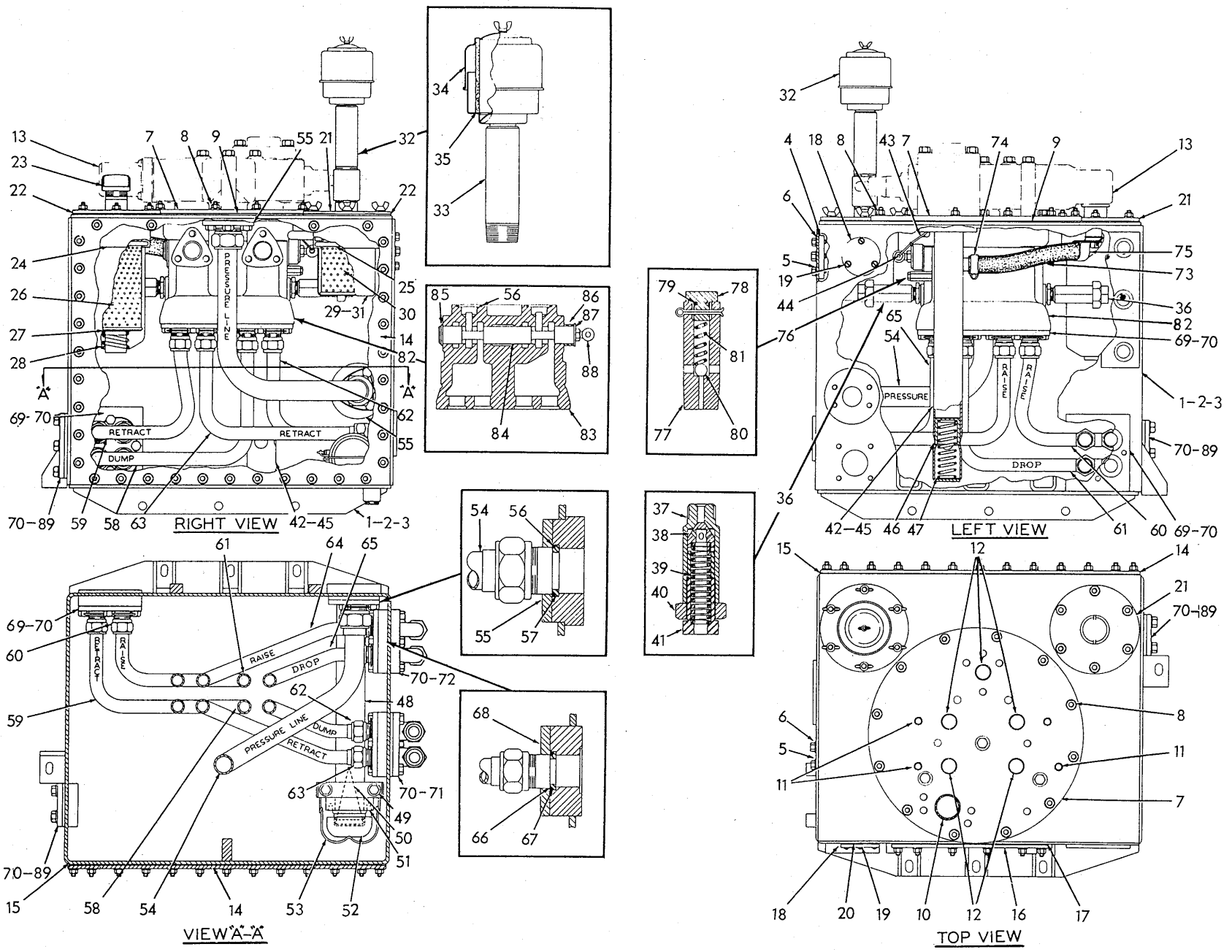



SHOVEL PUMP AND DRIVE (Second type) T-71921

# SHOVEL PUMP AND DRIVE

USAGE: Shovels serial No. 150 and up

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 3028864 | 1 | PUMP ASSEMBLY (See page 617 for parts) |
| 2 | 013465 | 4 | CAPSCREW, 3/4"NF x 2-1/2" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| | 911045 | 4 | NUT, 3/4"NF |
| 3 | 626740 | 1 | PLATE, pump mounting |
| 4 | 012526 | 4 | CAPSCREW, 3/4"NF x 3-1/4" |
| | 904369 | 4 | LOCKWASHER, 3/4" |
| | 911045 | 4 | NUT, 3/4"NF |
| 5 | 626741 | 1 | JOINT ASSEMBLY, universal (Consists of items 7 thru 13) |
| 6 | 035061 | 6 | CAPSCREW, 1/2"NC x 1-1/4" |
| | 904208 | 6 | LOCKWASHER, 1/2" |
| 7 | 3010729 | 1 | YOKE, front (splined) |
| 8 | 3026727 | 2 | SPIDER ASSEMBLY (Includes FITTING indented below and items 9 thru 11) |
| | 915275 | 2 | FITTING, lubricating, 65°, 1/8"NPT |
| 9 | 3011022 | 8 | BEARING ASSEMBLY, universal joint (Includes item 10) |
| 10 | 3011023 | 16 | WASHER, sealing, spider bearing |
| 11 | 3011021 | 8 | RING, snap, spider bearing |
| 12 | 3024907 | 1 | CENTER, universal joint |
| 13 | 625524 | 1 | YOKE, rear (flanged) |




HYDRAULIC TANK (First type)

T-27462

# HYDRAULIC TANK

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | TANK AND VALVE ASSEMBLY, hydraulic (Consists of items 2 thru 89)(Order TANK AND VALVE ASSEMBLY 626707. When making initial replacement also order 4 ELBOWS 919625) |
| | 035018 | 3 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 035073 | 1 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 035067 | 3 | CAPSCREW, 1/2"NF x 2" |
| | 3011243 | 11 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 7 | LOCKWASHER, 1/2" |
| | 911043 | 5 | NUT, 1/2"NF |
| | 626658 | 2 | SPACER, tank bottom (Use as required) |
| 2 | ------ | 1 | TANK ASSEMBLY, hydraulic (Consists of items 3 thru 9 and 14 thru 89)(Order TANK ASSEMBLY 3019342. When making initial replacement also order 4 ELBOWS 919625) |
| | 909091 | 1 | PLUG, pipe, ctsk-hd., 3/4"NPT |
| 3 | 3010623 | 1 | TANK, hydraulic (Includes welded studs) |
| 4 | 626704 | 1 | PLATE, cover (Discard when installing diverter valve controls) |
| | 036032 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| 5 | 625084 | 2 | WASHER, sealing |
| | 920601 | 1 | CAPSCREW, 7/16"NF x 7/8" |
| 6 | 625085 | 1 | WASHER, sealing |
| 7 | 3010597 | 1 | PLATE, valve mounting |
| | 035018 | 3 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| 8 | 3019683 | 12 | NUT, aluminum, 3/8"NC |
| 9 | 626702 | 1 | GASKET, valve mounting plate |
| 10 | 923814 | 1 | O-RING, valve mounting (large) |
| 11 | 923565 | 4 | O-RING, valve mounting (small) |
| 12 | 923577 | 5 | O-RING, valve mounting (medium) |
| 13 | ------ | 1 | VALVE ASSEMBLY, control (See SHOVEL VALVE AND CONTROLS) |
| | 037461 | 2 | CAPSCREW, 1/2"NF x 4-3/4" |
| | 057984 | 6 | CAPSCREW, 1/2"NF x 5-3/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 14 | 626670 | 1 | COVER, tank side |
| | 904206 | 35 | LOCKWASHER, 3/8" |
| | 3019683 | 35 | NUT, aluminum, 3/8"NC |
| 15 | 626671 | 1 | GASKET, tank side cover |
| 16 | 3010921 | 1 | COVER, valve inspection |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| | 3019683 | 12 | NUT, aluminum, 3/8"NC |
| 17 | 626677 | 1 | GASKET, inspection cover |
| 18 | 626678 | 1 | COVER, power take-off |
| | 914108 | 3 | SCREW, machine, 1/4"NF x 5/8" |
| 19 | 625086 | 3 | WASHER, sealing |
| 20 | 625087 | 1 | GASKET, power take-off cover |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 21 | 3010704 | 2 | COVER, breather and filter |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| | 915017 | 6 | NUT, wing, 3/8"NC |
| | 3019683 | 6 | NUT, aluminum, 3/8"NC |
| 22 | 626685 | 2 | GASKET, breather and filter cover (See item 90) |
| 23 | 3016858 | 1 | DIPSTICK, oil level |
| 24 | 3013122 | 1 | CASE, oil filter |
| 25 | 923836 | 2 | O-RING, filter cases |
| 26 | ------ | 1 | ELEMENT, oil filter (Order item 90) |
| 27 | 045143 | 1 | WASHER, element retaining |
| 28 | 3012944 | 1 | SPRING, element retaining |
| 29 | 3010691 | 1 | CASE, air filter |
| 30 | ------ | 1 | ELEMENT, air filter (Order item 90) |
| 31 | 3010655 | 1 | GASKET, air filter case |
| 32 | 3010481 | 1 | BREATHER ASSEMBLY (Includes items 33 thru 35) |
| | 901769 | 1 | COUPLING, pipe, 1-1/4"NPT |
| 33 | 3010482 | 1 | BASE, breather |
| 34 | 3006745 | 1 | CAP, breather |
| | 3006744 | 1 | SCREW |
| 35 | ------ | 1 | ELEMENT, breather (Order item 90) |
| 36 | 3020506 | 2 | VALVE ASSEMBLY, relief (Includes items 37 thru 41) |
| | 901829 | 2 | BUSHING, pipe reducing, 1"NPT to 3/4"NPT |
| 37 | 3019598 | 2 | BODY, relief valve |
| 38 | 3019977 | 2 | PLUNGER ASSEMBLY, relief valve (Includes ball) |
| 39 | 3016277 | 2 | SPRING, relief valve |
| 40 | 3020521 | 2 | NUT, relief valve cap |
| 41 | 3016278 | 2 | CAP, relief valve |
| 42 | 3014395 | 1 | PIPE, discharge |
| | 910910 | 1 | PIN, cotter, 7/32" x 3" |
| 43 | 048676 | 2 | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| 44 | 023633 | 1 | WIRE, locking, 1/16"x 12" |
| 45 | 626705 | 1 | GASKET, discharge pipe |
| 46 | 626691 | 1 | PLUNGER, discharge pipe |
| 47 | 626692 | 1 | SPRING, discharge pipe |
| 48 | 626857 | 1 | TUBE, section |

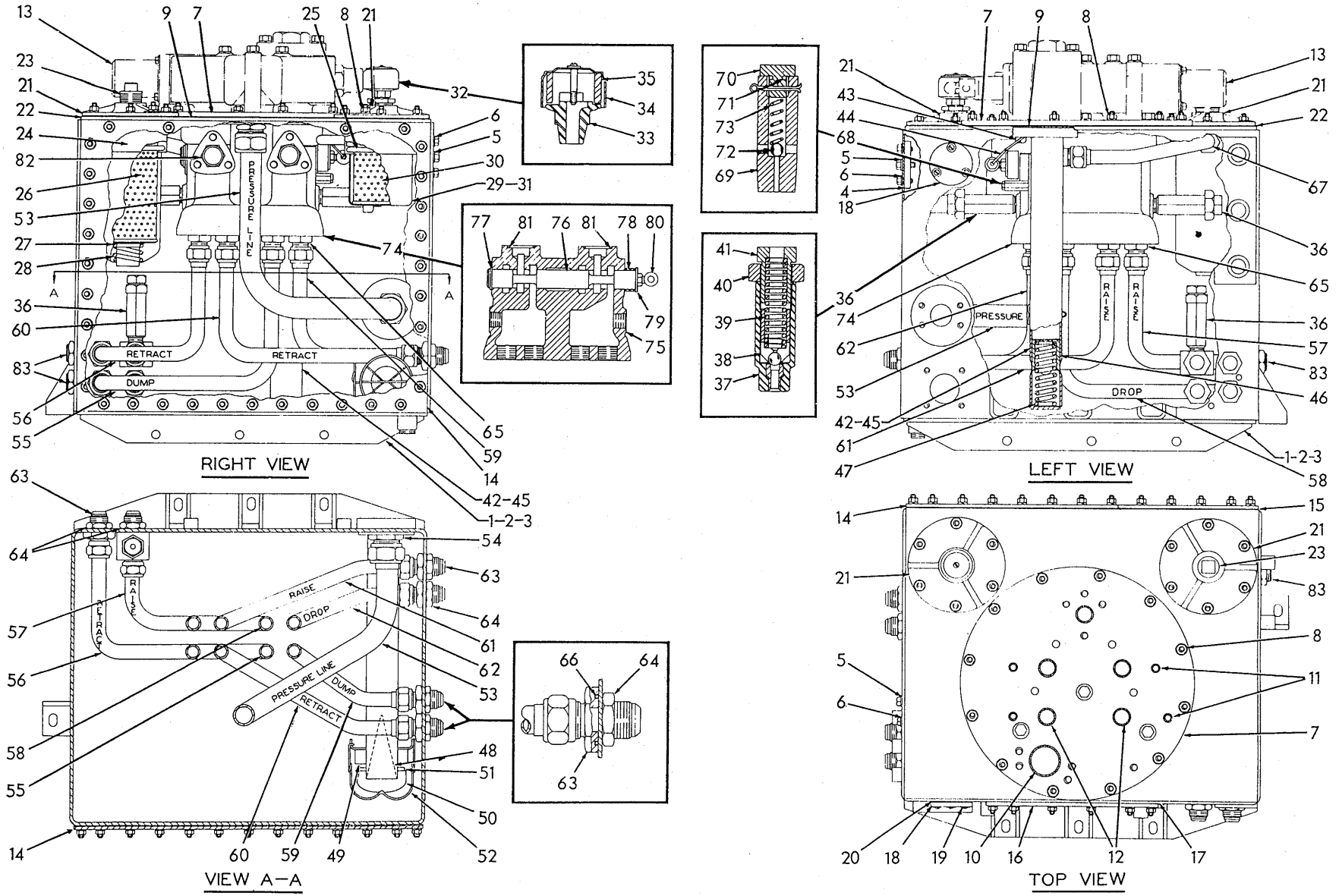
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| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 49 | 3010941 | 1 | CLAMP, suction tube (bottom half) |
| | 3011923 | 1 | CLAMP, suction tube (top half) |
| | 3011789 | 2 | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| | 023633 | 1 | WIRE, locking, 1/16" x 12" |
| 50 | 626688 | 1 | STRAINER, suction line |
| 51 | 3011349 | 1 | MAGNET, suction line |
| 52 | 3011930 | 1 | BAFFLE, suction line |
| 53 | 3011928 | 1 | BAIL, suction line baffle |
| 54 | 3016317 | 1 | TUBE ASSEMBLY, main pressure (Includes nuts) |
| 55 | 3016607 | 2 | RETAINER, tube adapting |
| | 3011789 | 6 | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| | 023633 | 2 | WIRE, locking, 1/16" x 12" |
| 56 | 923577 | 6 | O-RING, tube adapting retainer and diverting valve |
| 57 | 3016341 | 2 | SLEEVE, o-ring retaining |
| 58 | 3016316 | 1 | TUBE ASSEMBLY, dump pressure, left cylinder (Includes nuts) |
| 59 | 3016310 | 1 | TUBE ASSEMBLY, retract pressure, left cylinder (Includes nuts) |
| 60 | 3016315 | 1 | TUBE ASSEMBLY, raise pressure, left cylinder (Includes nuts) |
| 61 | 3016330 | 1 | TUBE ASSEMBLY, drop pressure, left cylinder (Includes nuts) |
| 62 | 3016312 | 1 | TUBE ASSEMBLY, dump pressure, right cylinder (Includes nuts) |
| 63 | 3016314 | 1 | TUBE ASSEMBLY, retract pressure, right cylinder (Includes nuts) |
| 64 | 3016313 | 1 | TUBE ASSEMBLY, raise pressure, right cylinder (Includes nuts) |
| 65 | 3016311 | 1 | TUBE ASSEMBLY, drop pressure, right cylinder (Includes nuts) |
| 66 | 923649 | 16 | O-RING, tube adapting plate |
| 67 | 625077 | 16 | SLEEVE, o-ring retaining |
| 68 | 625102 | 2 | PLATE, tube adapting |
| | 3011789 | 6 | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| | 023633 | 2 | WIRE, locking, 1/16" x 12" |
| 69 | 3016335 | 4 | PLATE, tube adapting |
| | 3011789 | 12 | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| | 023633 | 6 | WIRE, locking, 1/16" x 12" |
| | 914875 | 3 | CAPSCREW, 1/2"NF x 1" |
| | 3010837 | 3 | WASHER, sealing |
| 70 | 923664 | 10 | O-RING, adapting plate |
| 71 | 3011263 | 1 | PLATE, tube adapting |
| | 914875 | 3 | CAPSCREW, 1/2"NF x 1" |
| | 3010837 | 3 | WASHER, sealing |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 72 | 3010609 | 1 | PLATE, tube adapting |
| | 914875 | 3 | CAPSCREW, 1/2"NF x 1" |
| | 3010837 | 3 | WASHER, sealing |
| 73 | 3011356 | 1 | HOSE, oil filter |
| 74 | 921911 | 2 | CLAMP, hose, 11/16" to 1-1/4" diam. |
| 75 | 3011755 | 1 | CLIP, hose, oil filter |
| | 3011789 | 1 | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| | 3013079 | 1 | WIRE, locking, #16 x 8" |
| 76 | 626698 | 1 | VALVE ASSEMBLY, check (Consists of items 77 thru 81) |
| 77 | ------ | 1 | BODY, check valve (Not serviced separately. Order item 76) |
| 78 | ------ | 1 | CAP, check valve (Not serviced separately. Order item 76) |
| | 904020 | 1 | PIN, cotter, 1/16" x 1" |
| 79 | 923558 | 1 | O-RING, check valve |
| 80 | 905358 | 1 | BALL, check valve (1/4" diam.) |
| 81 | 3007405 | 1 | SPRING, check valve |
| 82 | 3010878 | 1 | VALVE ASSEMBLY, diverting (Consists of items 83 thru 88) |
| 83 | ------ | 1 | HOUSING, diverter valve (Not serviced. Order item 82) |
| 84 | ------ | 1 | PLUNGER, diverter valve (Not serviced. Order item 82) |
| 85 | 3007239 | 1 | RING, snap, valve plunger |
| 86 | 3012461 | 1 | SPACER, valve plunger |
| 87 | 914906 | 1 | WASHER, retaining, valve plunger (17/32" I. D.) |
| 88 | 3010871 | 1 | EYE, valve plunger |
| | 913830 | 1 | NUT, jam, 1/2"NF |
| | 3010603 | 1 | WIRE, locking, #16 x 22" |
| 89 | 3011335 | 1 | PLATE, adapting (For use when installing diverter valve controls) |
| | 914875 | 3 | CAPSCREW, 1/2"NF x 1" |
| | 3010837 | 3 | WASHER, sealing |
| 90 | 3019696 | 1 | ELEMENT KIT, filter and breather (Consists of items 22, 26, 30 and 35)(Not illustrated) |

MEMO




HYDRAULIC TANK (Second type)

# HYDRAULIC TANK

USAGE: Effective with shovel serial No. 111

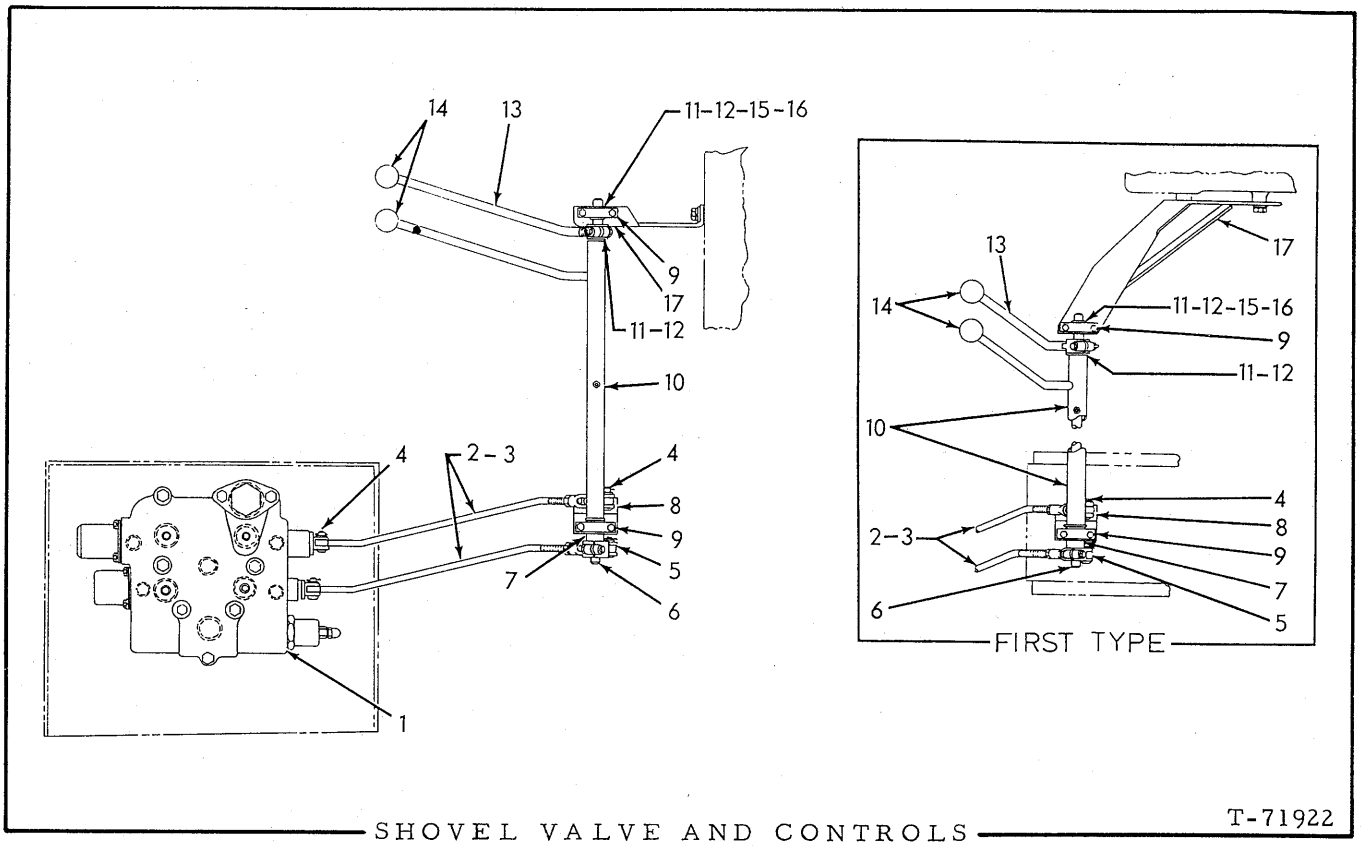
| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 626707 | 1 | TANK AND VALVE ASSEMBLY, hydraulic (Consists of items 2 thru 83) |
| | 035018 | 5 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 035073 | 1 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 035067 | 3 | CAPSCREW, 1/2"NF x 2" |
| | 3011243 | 13 | WASHER, plain, SAE std., 1/2" |
| | 904208 | 9 | LOCKWASHER, 1/2" |
| | 911043 | 7 | NUT, 1/2"NF |
| | 626658 | 2 | SPACER, tank bottom (Use as required) |
| | 626657 | 2 | SPACER, tank side (Use as required) |
| 2 | 3019342 | 1 | TANK ASSEMBLY, hydraulic (Consists of 1 PLUG 909091, items 3 thru 9 and 14 thru 83) |
| | 909091 | 1 | PLUG, pipe, ctsk-hd., 3/4"NPT |
| 3 | 626667 | 1 | TANK, hydraulic (Includes welded studs) |
| 4 | 626704 | 1 | PLATE, cover (Discard when installing diverter valve controls) |
| | 920601 | 1 | CAPSCREW, 7/16"NF x 7/8" |
| 5 | 625085 | 1 | WASHER, sealing |
| | 036032 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| 6 | 625084 | 2 | WASHER, sealing |
| 7 | 626669 | 1 | PLATE, valve mounting |
| | 035018 | 3 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 3 | LOCKWASHER, 1/2" |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| 8 | 911026 | 12 | NUT, 3/8"NC |
| 9 | 626702 | 1 | GASKET, valve mounting plate |
| 10 | 923814 | 1 | O-RING, valve mounting (large) |
| 11 | 923565 | 4 | O-RING, valve mounting (small) |
| 12 | 923577 | 5 | O-RING, valve mounting (medium) |
| 13 | ------ | 1 | VALVE ASSEMBLY, control (See SHOVEL VALVE AND CONTROLS) |
| | 037461 | 2 | CAPSCREW, 1/2"NF x 4-3/4" |
| | 057984 | 6 | CAPSCREW, 1/2"NF x 5-3/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 14 | 626670 | 1 | COVER, tank side |
| | 904206 | 35 | LOCKWASHER, 3/8" |
| | 911026 | 35 | NUT, 3/8"NC |
| 15 | 626671 | 1 | GASKET, tank side cover |
| 16 | 626676 | 1 | COVER, valve inspection |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| | 911026 | 12 | NUT, 3/8"NC |
| 17 | 626677 | 1 | GASKET, inspection cover |
| 18 | 626678 | 1 | COVER, power take-off |
| | 914108 | 3 | SCREW, machine, 1/4"NF x 5/8" |
| 19 | 625086 | 3 | WASHER, sealing |
| 20 | 625087 | 1 | GASKET, power take-off cover |
| 21 | 3019284 | 2 | COVER, breather and filter |
| | 904206 | 12 | LOCKWASHER, 3/8" |
| | 911026 | 12 | NUT, 3/8"NC |
| 22 | 626685 | 2 | GASKET, breather and filter cover (See item 84) |
| 23 | 626701 | 1 | DIPSTICK, oil level |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 24 | 3013122 | 1 | CASE, oil filter |
| 25 | 923836 | 2 | O-RING, filter cases |
| 26 | ------ | 1 | ELEMENT, oil filter (Order item 84) |
| 27 | 045143 | 1 | WASHER, element retaining |
| 28 | 3012944 | 1 | SPRING, element retaining |
| 29 | 3010691 | 1 | CASE, air filter |
| 30 | ------ | 1 | ELEMENT, air filter (Order item 84) |
| 31 | 3010655 | 1 | GASKET, air filter case |
| 32 | 3002766 | 1 | BREATHER ASSEMBLY (Includes items 33 thru 35) |
| | 901844 | 1 | BUSHING, pipe reducing, 1-1/4"NPT to 3/4"NPT |
| | 901829 | 1 | BUSHING, pipe reducing, 1"NPT to 3/4"NPT |
| 33 | 3002767 | 1 | BASE, breather |
| 34 | 3002768 | 1 | CAP, breather |
| | 914172 | 1 | SCREW, machine, #10-32NF x 1-1/4" |
| | 904203 | 1 | LOCKWASHER, #10 |
| 35 | ------ | 1 | ELEMENT, breather (Order item 84) |
| 36 | 3020506 | 3 | VALVE ASSEMBLY, relief (Consists of items 37 thru 41)(1 less used on shovels prior to #122) |
| 37 | 3019598 | 3 | BODY, relief valve |
| 38 | 3019977 | 3 | PLUNGER ASSEMBLY, relief valve (Includes ball) |
| 39 | 3016277 | 3 | SPRING, relief valve |
| 40 | 3020521 | 3 | NUT, relief valve cap |
| 41 | 3016278 | 3 | CAP, relief valve |
| 42 | 626697 | 1 | PIPE, discharge |
| | 910910 | 1 | PIN, cotter, 7/32" x 3" |
| 43 | 048676 | 2 | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| 44 | 023633 | 1 | WIRE, locking, 1/16" x 12" |
| 45 | 626705 | 1 | GASKET, discharge pipe |
| 46 | 626691 | 1 | PLUNGER, discharge pipe |
| 47 | 626692 | 1 | SPRING, discharge pipe |
| 48 | 626688 | 1 | STRAINER, suction line |
| 49 | 3011349 | 1 | MAGNET, suction line |
| 50 | 3019231 | 1 | BAFFLE, suction line |
| 51 | 3019303 | 1 | SUPPORT, suction line baffle |
| 52 | 626687 | 1 | BAIL, suction line baffle |

(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 53 | 626680 | 1 | TUBE ASSEMBLY, main pressure (Includes nuts) |
| 54 | 626679 | 2 | CONNECTOR |
| 55 | 626689 | 1 | TUBE ASSEMBLY, dump pressure, left cylinder (Includes nuts) |
| 56 | 626674 | 1 | TUBE ASSEMBLY, retract pressure, left cylinder (Includes nuts) |
| 57 | 3017351 | 1 | TUBE ASSEMBLY, raise pressure, left cylinder (Includes nuts) (Used prior to shovel #122) |
| | 626675 | 1 | TUBE ASSEMBLY, raise pressure, left cylinder (Includes nuts) (Effective with shovel #122) |
| | 3021852 | 1 | TEE, bulkhead |
| 58 | 626690 | 1 | TUBE ASSEMBLY, drop pressure, left cylinder (Includes nuts) |
| 59 | 626683 | 1 | TUBE ASSEMBLY, dump pressure, right cylinder (Includes nuts) |
| 60 | 626684 | 1 | TUBE ASSEMBLY, retract pressure, right cylinder (Includes nuts) |
| 61 | 626681 | 1 | TUBE ASSEMBLY, raise pressure, right cylinder (Includes nuts) |
| 62 | 626682 | 1 | TUBE ASSEMBLY, drop pressure, right cylinder (Includes nuts) |
| 63 | 3016070 | 8 | UNION, bulkhead, cylinder tube (1 less used effective with shovel #122) |
| 64 | 3016394 | 10 | NUT, bulkhead union |
| 65 | 3016347 | 8 | CONNECTOR, cylinder tube |
| 66 | 923664 | 10 | O-RING, cylinder tube |
| 67 | 626673 | 1 | TUBE ASSEMBLY, oil filter (Includes nuts) |
| 68 | 626698 | 1 | VALVE ASSEMBLY, check (Consists of items 69 thru 73) |
| 69 | ------ | 1 | BODY, check valve (Not serviced separately) |
| 70 | ------ | 1 | CAP, check valve (Not serviced separately) |
| | 904020 | 1 | PIN, cotter, 1/16" x 1" |
| 71 | 923558 | 1 | O-RING, check valve |
| 72 | 905358 | 1 | BALL, check valve (1/4" diam.) |
| 73 | 3007405 | 1 | SPRING, check valve |
| 74 | 626703 | 1 | VALVE ASSEMBLY, diverting (Consists of items 75 thru 80. When replacing also order item 81) |
| 75 | ------ | 1 | HOUSING, diverter valve (Not serviced. Order item 74) |
| 76 | ------ | 1 | PLUNGER, diverter valve (Not serviced. Order item 74) |
| 77 | 3007239 | 1 | RING, snap, valve plunger |
| 78 | 3012461 | 1 | SPACER, valve plunger |
| 79 | 914906 | 1 | WASHER, retaining, valve plunger (17/32" I. D.) |
| 80 | 3010871 | 1 | EYE, valve plunger |
| | 913830 | 1 | NUT, jam, 1/2"NF |
| | 3010603 | 1 | WIRE, locking, #16 x 22" |
| 81 | 923577 | 4 | O-RING, diverter valve mounting |
| 82 | 626706 | 2 | PLUG, diverter line connection |
| 83 | 626672 | 2 | PLUG, cylinder tube protecting |
| 84 | 3038306 | 1 | ELEMENT KIT, filter and breather (Consists of items 22, 26, 30 and 35)(Not illustrated) |




SHOVEL VALVE AND CONTROLS T-71922

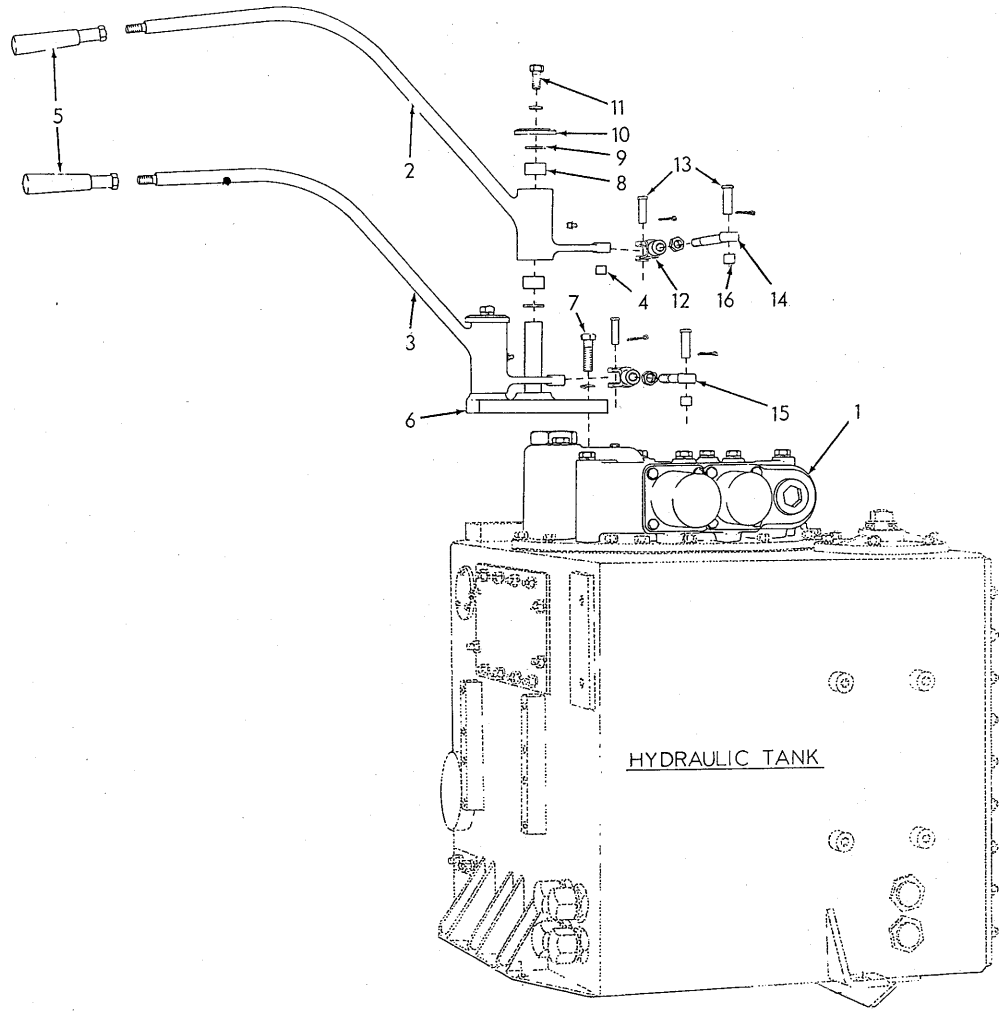
USAGE: Tractors prior to serial No. 12454, excluding No. 12172

* Used prior to shovel serial No. 124
** Effective with shovel serial No. 124

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 626668 | 1 | 1 | VALVE ASSEMBLY, control (See page 634 for parts) |
| | 037461 | 2 | 2 | CAPSCREW, 1/2"NF x 4-3/4" |
| | 057984 | 6 | 6 | CAPSCREW, 1/2"NF x 5-3/4" |
| | 904208 | 8 | 8 | LOCKWASHER, 1/2" |
| 2 | 3016656 | 2 | - | ROD ASSEMBLY, control (Includes 1 BUSHING 3013909) |
| | 626734 | - | 2 | ROD ASSEMBLY, control (Includes 1 BUSHING 3013909) |
| | 917666 | 2 | 2 | YOKE, rod end, adjustable, 1/2"NF |
| | 904208 | 8 | 8 | NUT, jam, 1/2"NF |
| 3 | 3013909 | 4 | 4 | BUSHING, control rod |
| 4 | 049993 | 4 | 4 | PIN, control linkage |
| | 910244 | 2 | 2 | WASHER, plain, SAE std., 1/2" (valve end) |
| | 900806 | 4 | 4 | PIN, cotter, 1/8" x 1" |
| 5 | 3012171 | 1 | - | LEVER ASSEMBLY, control (Includes 1 BUSHING 3013909) |
| | 626712 | - | 1 | LEVER ASSEMBLY, control (Includes 1 BUSHING 3013909) |
| | 046419 | 1 | 1 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 6 | 3017946 | 1 | - | SHAFT, control lever |
| | 626719 | - | 1 | SHAFT, control lever |
| 7 | 626730 | 1 | 1 | SPACER, control lever |
| 8 | 626729 | 1 | 1 | BRACKET, control shaft |
| | 915480 | 2 | - | CAPSCREW, 3/8"NF x 1-3/4" |
| | 900817 | 2 | - | WASHER, plain, U.S. std., 3/8" |
| | 904206 | 2 | - | LOCKWASHER, 3/8" |
| | 911041 | 2 | - | NUT, 3/8"NF |
| | 036034 | - | 2 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | - | 2 | LOCKWASHER, 3/8" |
| 9 | 626715 | 2 | 2 | BLOCK ASSEMBLY, pillow (Includes 2 CAPSCREW 045174, 2 LOCKWASHER 904206 and 2 NUT 911041) |
| | 045174 | 4 | 4 | CAPSCREW, 3/8"NF x 2-1/2" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| | 911041 | 4 | 4 | NUT, 3/8"NF |
| 10 | 3017949 | 1 | - | TUBE ASSEMBLY, operating lever (Includes 1 BUSHING 3013909, 2 BEARING 208253, 2 SEAL 052662 and FITTING indented below) |
| | 626725 | - | 1 | TUBE ASSEMBLY, operating lever (Includes 1 BUSHING 3013909, 2 BEARING 208253, 2 SEAL 052662 and FITTING indented below) |
| | 914465 | 1 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| | 911386 | 2 | 2 | WASHER, plain, 3/4" |
| | 911115 | 2 | 2 | WASHER, plain, SAE std., 3/8" |
| 11 | 208253 | 4 | 4 | BEARING, control shaft |
| 12 | 052662 | 6 | 6 | SEAL, control shaft bearing |
| 13 | 3017963 | 1 | - | LEVER, operating |
| | 626718 | - | 1 | LEVER, operating |
| | 905122 | 2 | 2 | KEY, #7 woodruff, 1/8" x 3/4" |
| | 046419 | 1 | 1 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | 1 | 1 | LOCKWASHER, 3/8" |
| | 911041 | 1 | 1 | NUT, 3/8"NF |
| 14 | 3001171 | 2 | 2 | KNOB, operating lever |
| 15 | 626721 | 2 | 2 | BEARING ASSEMBLY, control shaft (Includes 1 BEARING 208253, 2 SEAL 052662 and 1 RETAINER 626720) |
| 16 | 626720 | 2 | 2 | RETAINER, control shaft bearing |
| 17 | 3019447 | 1 | - | BRACKET, control shaft |
| | 626710 | - | 1 | BRACKET, control shaft |
| | 916311 | 2 | - | CAPSCREW, 1/2"NC x 1-1/4" |
| | 914875 | - | 2 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 2 | 2 | LOCKWASHER, 1/2" |
| | 910244 | 2 | 2 | WASHER, plain, SAE std., 1/2" |




SHOVEL VALVE AND CONTROLS T-40576

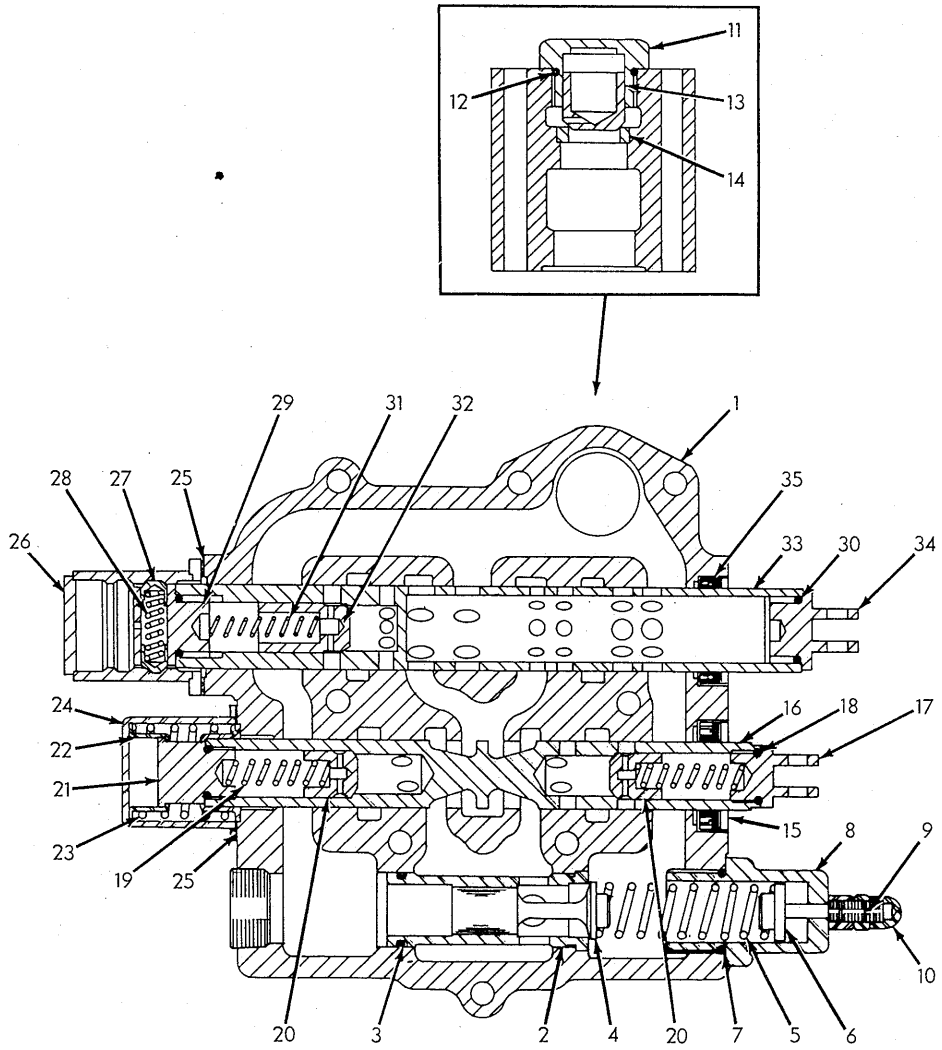
USAGE: Tractors serial No. 12454 and up, including No. 12172

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 626668 | 1 | VALVE ASSEMBLY, control (See page 634 for parts) |
| | 037461 | 2 | CAPSCREW, 1/2"NF x 4-3/4" |
| | 057984 | 6 | CAPSCREW, 1/2"NF x 5-3/4" |
| | 904208 | 8 | LOCKWASHER, 1/2" |
| 2 | 627047 | 1 | LEVER ASSEMBLY, dump control (Includes item 4) |
| | 914465 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| 3 | 627048 | 1 | LEVER ASSEMBLY, lift control (Includes item 4) |
| | 914465 | 1 | FITTING, lubricating, straight, 1/8"NPT |
| 4 | 049988 | 2 | BUSHING, control lever |
| 5 | 078620 | 2 | GRIP, control lever |
| 6 | 627038 | 1 | PIN, control lever pivot |
| 7 | 035073 | 4 | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |

(Continued)

## SHOVEL VALVE AND CONTROLS (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 8 | 051513 | 4 | BEARING, needle, control lever |
| 9 | 053926 | 4 | SEAL, dust, control lever bearing |
| 10 | 627051 | 2 | COVER, control shaft pivot |
| 11 | 070467 | 2 | CAPSCREW, 1/2"NF x 1" |
| | 904208 | 2 | LOCKWASHER, 1/2" |
| 12 | 068389 | 2 | YOKE, control lever |
| 13 | 049993 | 4 | PIN, control linkage |
| | 900805 | 4 | PIN, cotter, 1/8" x 3/4" |
| 14 | 627060 | 1 | EYE-BOLT ASSEMBLY, dump control (Includes item 16) |
| | 911043 | 1 | NUT, 1/2"NF |
| 15 | 627049 | 1 | EYE-BOLT ASSEMBLY, lift control (Includes item 16) |
| | 911043 | 1 | NUT, 1/2"NF |
| 16 | 049988 | 2 | BUSHING, eye-bolt |




CONTROL VALVE ASSEMBLY 626668 T-40607

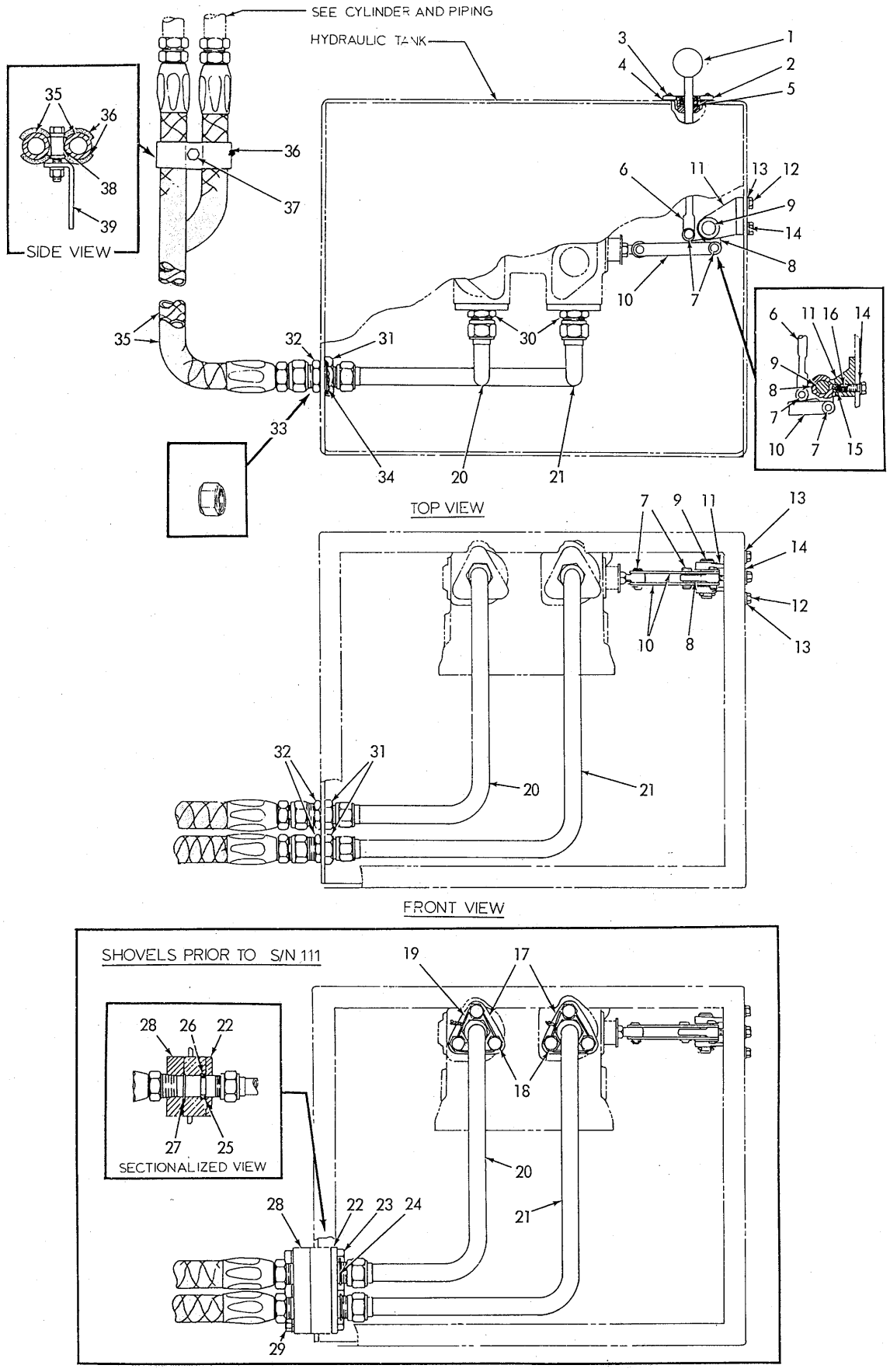
USAGE: See pages 630 and 632

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | HOUSING (Not serviced separately) |
| | 908944 | 1 | PLUG, pipe, hex-socket, 1/2"NPT |
| | 918850 | 5 | PLUG, pipe, hex-socket, 1/4"NPT |
| 2 | 3010862 | 1 | VALVE, pressure relief |
| 3 | 923664 | 1 | O-RING, pressure relief valve |
| 4 | 3004709 | 1 | PLUNGER, pressure relief valve |
| 5 | 3007277 | 1 | SPRING, pressure relief valve |
| 6 | 3004720 | 1 | GUIDE, relief valve spring |
| 7 | 923577 | 1 | O-RING, relief valve cap |
| 8 | 3007228 | 1 | CAP, pressure relief valve |

(Continued)

## CONTROL VALVE ASSEMBLY 626668 (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 9 | 3004711 | 1 | SCREW, pressure relief valve |
| | 911043 | 1 | NUT, hex, 1/2"NF |
| 10 | 3003911 | 1 | NUT, relief valve screw |
| 11 | 3010848 | 1 | CAP, flow valve |
| 12 | 923577 | 1 | O-RING, flow valve cap |
| 13 | 3010849 | 1 | PLUNGER, flow valve |
| 14 | 3010851 | 1 | SEAT, flow valve plunger |
| 15 | 3004707 | 1 | SEAL, oil, operating plunger |
| 16 | ------ | 1 | PLUNGER, operating (Not serviced separately) |
| 17 | 3004708 | 1 | EYE, operating plunger |
| 18 | 923575 | 2 | O-RING, operating plunger |
| 19 | 3001716 | 2 | SPRING, plunger check valve |
| 20 | 3004706 | 2 | PLUNGER, check valve spring |
| 21 | 3010866 | 1 | CAP, operating plunger |
| 22 | 3010865 | 2 | RETAINER, operating plunger return spring |
| 23 | 627634 | 1 | SPRING, return, operating plunger |
| 24 | 3010863 | 1 | COVER, plunger return spring |
| | 905661 | 4 | CAPSCREW, 5/16"NC x 5/8" |
| | 904205 | 4 | LOCKWASHER, 5/16" |
| 25 | 3010855 | 2 | GASKET, plunger cap and detent housing |
| 26 | 626953 | 1 | HOUSING, detent |
| | 905661 | 4 | CAPSCREW, 5/16"NC x 5/8" |
| | 904205 | 4 | LOCKWASHER, 5/16" |
| 27 | 3010854 | 2 | PLUNGER, detent |
| 28 | 626954 | 1 | SPRING, detent plunger |
| 29 | 626955 | 1 | CAP, detent, operating plunger |
| 30 | 923649 | 2 | O-RING, operating plunger |
| 31 | 3010857 | 1 | SPRING, check valve plunger |
| 32 | 626949 | 1 | PLUNGER, check valve |
| 33 | ------ | 1 | PLUNGER, operating (Not serviced separately) |
| 34 | 626950 | 1 | EYE, operating plunger |
| 35 | 626948 | 1 | SEAL, oil, operating plunger |




DIVERTING VALVE CONTROL AND PIPING

T-71923

# DIVERTING VALVE CONTROL AND PIPING

USAGE: Special equipment. Provides rear hydraulic outlet for operating auxiliary equipment.

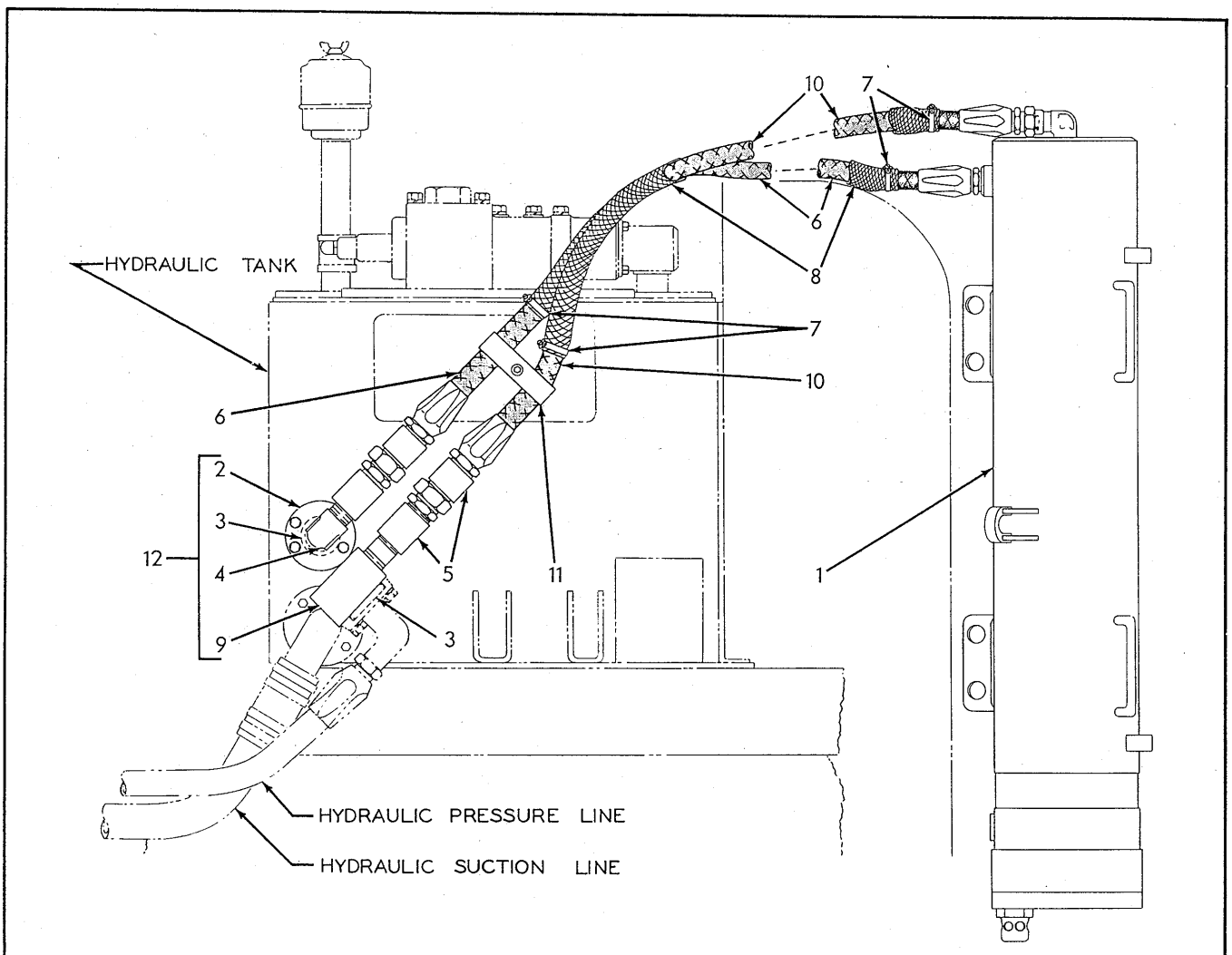
* Shovels prior to serial No. 111
** Shovels serial No. 111 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 091862 | 1 | 1 | KNOB, control rod |
| 2 | 625091 | 1 | 1 | FLANGE, guide, control rod |
| | 914108 | 3 | 3 | SCREW, machine, 1/4"NF x 5/8" |
| 3 | 625086 | 3 | 3 | WASHER, sealing |
| 4 | 625087 | 1 | 1 | GASKET, guide flange |
| 5 | 625088 | 1 | 1 | SEAL, oil, guide flange |
| 6 | 625092 | 1 | 1 | ROD, control |
| 7 | 078810 | 3 | 3 | PIN, control rod and link |
| | 911115 | 2 | 2 | WASHER, plain, SAE std., 3/8" |
| | 900942 | 3 | 3 | PIN, cotter, 3/32" x 5/8" |
| 8 | 625090 | 1 | 1 | BELLCRANK, control rod |
| 9 | 643996 | 1 | 1 | PIN, bellcrank |
| | 900806 | 1 | 1 | PIN, cotter, 1/8" x 1" |
| 10 | 625089 | 2 | 2 | LINK, bellcrank to valve |
| 11 | 625094 | 1 | 1 | BRACKET, mounting |
| 12 | 036032 | 2 | 2 | CAPSCREW, 3/8"NF x 3/4" |
| 13 | 625084 | 2 | 2 | WASHER, sealing (3/8") |
| | 920601 | 1 | 1 | CAPSCREW, 7/16"NF x 7/8" |
| 14 | 625085 | 1 | 1 | WASHER, sealing (7/16") |
| 15 | 614184 | 1 | 1 | POPPET, detent |
| 16 | 625098 | 1 | 1 | SPRING, detent poppet |
| 17 | 625081 | 2 | - | PLATE, tube adapting |
| 18 | 048676 | 6 | - | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| 19 | 023633 | 2 | - | WIRE, locking, 1/16" x 12" |
| 20 | 625079 | 1 | - | TUBE ASSEMBLY, left (Includes nuts) |
| | 625108 | - | 1 | TUBE ASSEMBLY, left (Includes nuts) |
| 21 | 625078 | 1 | - | TUBE ASSEMBLY, right (Includes nuts) |
| | 625107 | - | 1 | TUBE ASSEMBLY, right (Includes nuts) |
| 22 | 625102 | 1 | - | PLATE, retaining, tube sleeve |
| 23 | 048676 | 3 | - | CAPSCREW, drilled-hd., 1/2"NF x 1" |
| 24 | 023633 | 2 | - | WIRE, locking, 1/16" x 12" |
| 25 | 923649 | 4 | - | O-RING, tube sleeve |
| 26 | 625077 | 4 | - | SLEEVE, tube adapting |
| 27 | 923664 | 2 | - | O-RING, adapter plate |
| 28 | 625080 | 1 | - | PLATE, tube adapter |
| 29 | 035073 | 3 | - | CAPSCREW, 1/2"NF x 1-3/4" |
| | 904208 | 3 | - | LOCKWASHER, 1/2" |

(Continued)

## DIVERTING VALVE CONTROL AND PIPING (Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 30 | 3016347 | - | 2 | CONNECTOR, internal tube |
| 31 | 3016070 | - | 2 | UNION, bulkhead |
| 32 | 3016394 | - | 2 | NUT, special |
| 33 | 625106 | - | 2 | CAP, closure (For protecting disconnected lines) |
| 34 | 923664 | - | 2 | O-RING, bulkhead union |
| 35 | 625364 | 2 | - | HOSE ASSEMBLY (See page 6 for parts) |
| | 3006854 | - | 2 | HOSE ASSEMBLY (See page 6 for parts) |
| 36 | 625221 | 2 | 2 | CLAMP, hose supporting |
| 37 | 035068 | 1 | 1 | CAPSCREW, 1/2"NF x 2-1/4" |
| | 904208 | 1 | 1 | LOCKWASHER, 1/2" |
| | 911043 | 1 | 1 | NUT, 1/2"NF |
| 38 | 625220 | 1 | 1 | SPACER, hose clamp |
| 39 | 625363 | 1 | 1 | BRACKET, hose supporting clamp |

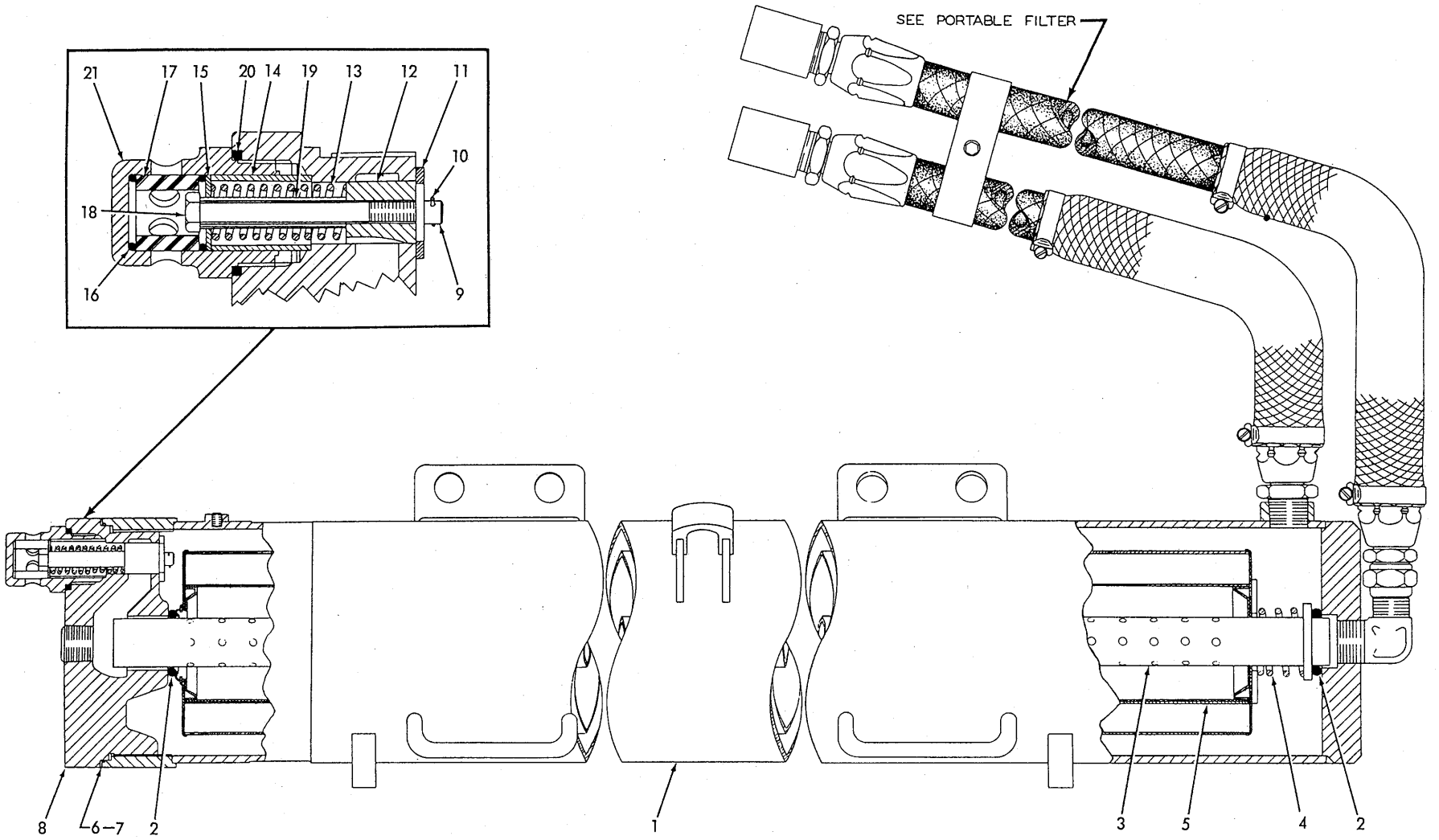



SHOVEL PORTABLE FILTER

# SHOVEL PORTABLE FILTER

USAGE: Special equipment. For reconditioning hydraulic system fluid

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 1 | 3010707 | 1 | FILTER ASSEMBLY, hydraulic oil (See page 641 for parts)(See item 13) | |
| 2 | 3015613 | 1 | ADAPTER, filter hose to hydraulic tank | See item 12 |
| | 916028 | 4 | CAPSCREW, 1/2"NF x 1-3/4" | |
| | 904208 | 4 | LOCKWASHER, 1/2" | |
| 3 | 923578 | 2 | O-RING, adapter | |
| 4 | 3016294 | 1 | ELBOW, adapter (90°) | |
| 5 | 3004141 | 4 | COUPLING, adapter to hose | See item 13 |
| 6 | 3010972 | 1 | HOSE ASSEMBLY, filter to hydraulic tank (See page 6 for parts)(Also includes items 7 and 8) | |
| 7 | 921913 | 4 | CLAMP, hose, 1-13/16" to 2-3/4" diam. | |
| 8 | 3011715 | 2 | GUARD, hose protecting | |
| 9 | 3015614 | 1 | ADAPTER, filter to pressure line | See item 12 |
| | 901520 | 1 | NIPPLE, pipe, 1"NPT x 1-1/2" | |
| 10 | 3010979 | 1 | HOSE ASSEMBLY, filter to pressure line (See page 6 for parts)(Also includes items 7 and 8) | See item 13 |
| 11 | 3011114 | 2 | CLAMP, hose | |
| | 916381 | 1 | CAPSCREW, 3/8"NF x 3/4" | |
| | 904206 | 1 | LOCKWASHER, 3/8" | |
| | 910123 | 1 | NUT, 3/8"NF | |
| 12 | 3017890 | 1 | PIPING AND ADAPTER KIT (Consists of items 2 thru 4 and 9) | |
| 13 | 3012166 | 1 | FILTER KIT, hydraulic system fluid (Consists of items 1,5,6,10 and 11)(Not illustrated) | |

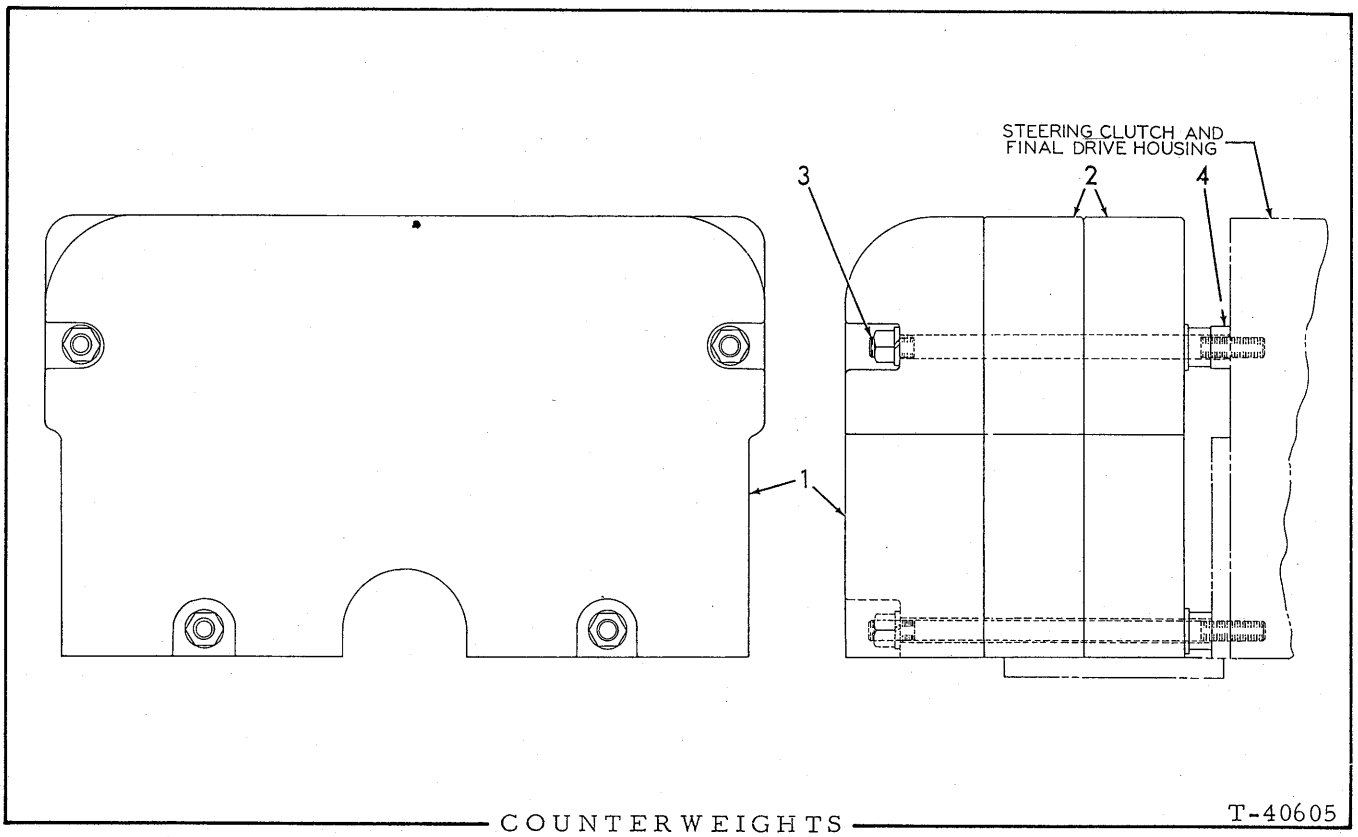



PORTABLE FILTER ASSEMBLY 3010707

# PORTABLE FILTER ASSEMBLY 3010707

USAGE: See page 639

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 3010638 | 1 | CASE, filter |
| | 907859 | 1 | PLUG, pipe, hex-socket, 1/4"NPT |
| | 920686 | 1 | ELBOW, 90°, flare type, 1" tube, 1"NPT |
| 2 | 923826 | 2 | O-RING, element tube |
| 3 | 3011370 | 1 | TUBE, element locating |
| 4 | 3010706 | 1 | SPRING, filter |
| | 900826 | 1 | WASHER, plain, SAE std., 1-3/4" |
| 5 | 3010360 | 5 | ELEMENT, filter |
| 6 | 924166 | 1 | O-RING, filter head (Also order 1 RING 3012554) |
| 7 | 3012554 | 1 | RING, back-up (Also order 1 O-RING 924166) |
| 8 | 3010529 | 1 | HEAD, filter |
| | 909365 | 1 | PLUG, pipe, hex-socket, 1"NPT |
| 9 | 3002978 | 2 | CAPSCREW, valve locating (5/16"NC x 3/4") |
| 10 | 3001085 | 1 | WIRE, locking, #16 x 17" |
| 11 | 3010555 | 1 | PLATE, retaining |
| 12 | 3010712 | 1 | PLUNGER, valve |
| 13 | 3010713 | 1 | SPRING, safety valve |
| 14 | 3010540 | 1 | BUSHING, valve |
| 15 | 3010539 | 1 | SPACER, valve bushing |
| 16 | 923575 | 2 | O-RING, valve tube |
| 17 | 3010645 | 1 | TUBE (Lucite) |
| 18 | 3015609 | 1 | CAPSCREW, valve centering (3/8"NF x 3-1/4") |
| 19 | 3010710 | 1 | SPACER, plunger |
| 20 | 923577 | 1 | O-RING, valve cap |
| 21 | 3010586 | 1 | CAP, valve |



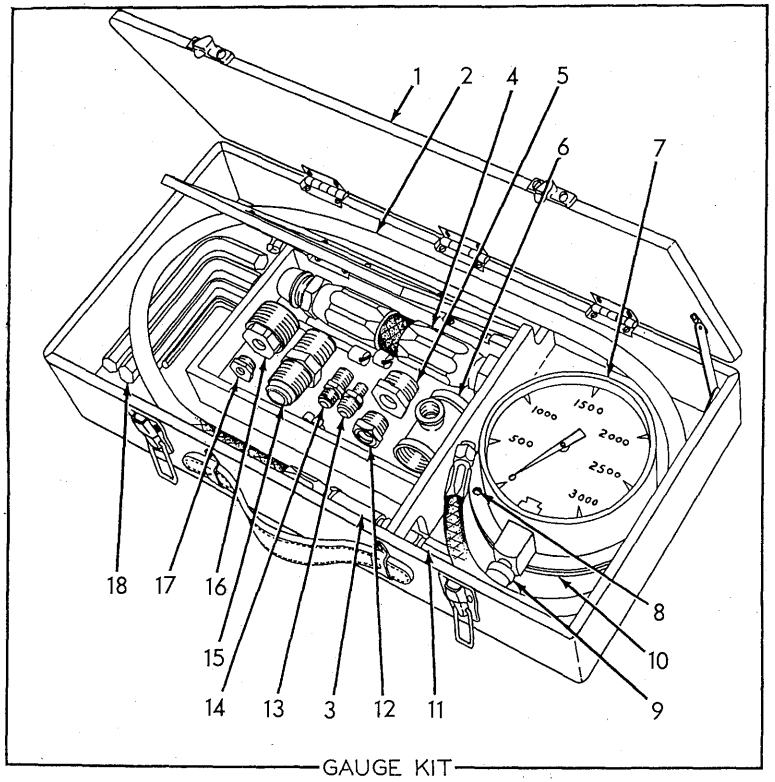

COUNTERWEIGHTS T-40605

USAGE: Special equipment

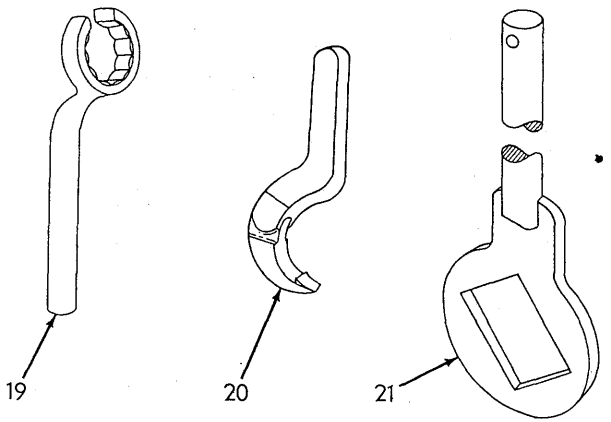
* Light
** Heavy

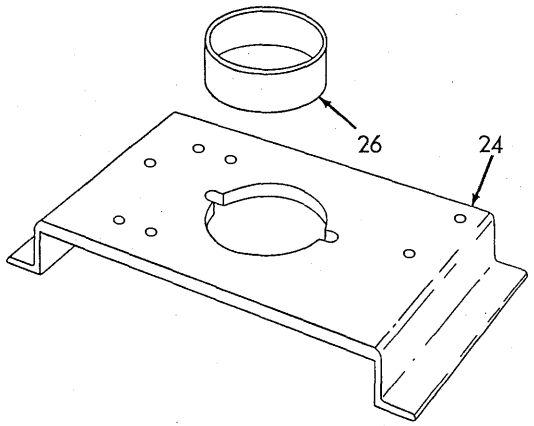
| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 635342 | 1 | 1 | WEIGHT, outer |
| 2 | 635341 | 1 | 2 | WEIGHT, inner |
| 3 | 635337 | 4 | - | STUD, weight attaching (19-3/4" long) |
| | 636679 | - | 4 | STUD, weight attaching (26-1/4" long) |
| | 904210 | 4 | 4 | LOCKWASHER, 1-1/4" |
| | 913097 | 4 | 4 | NUT, 1-1/4"NF |
| 4 | 635336 | 2 | 2 | SPACER, weight attaching stud |

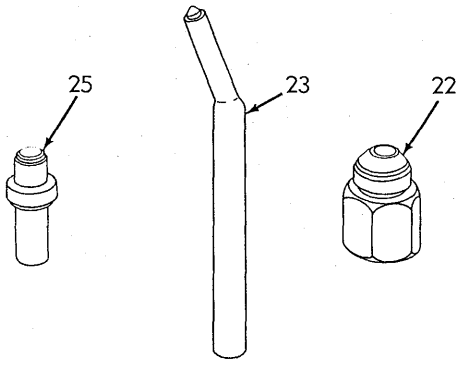
MEMO




GAUGE KIT



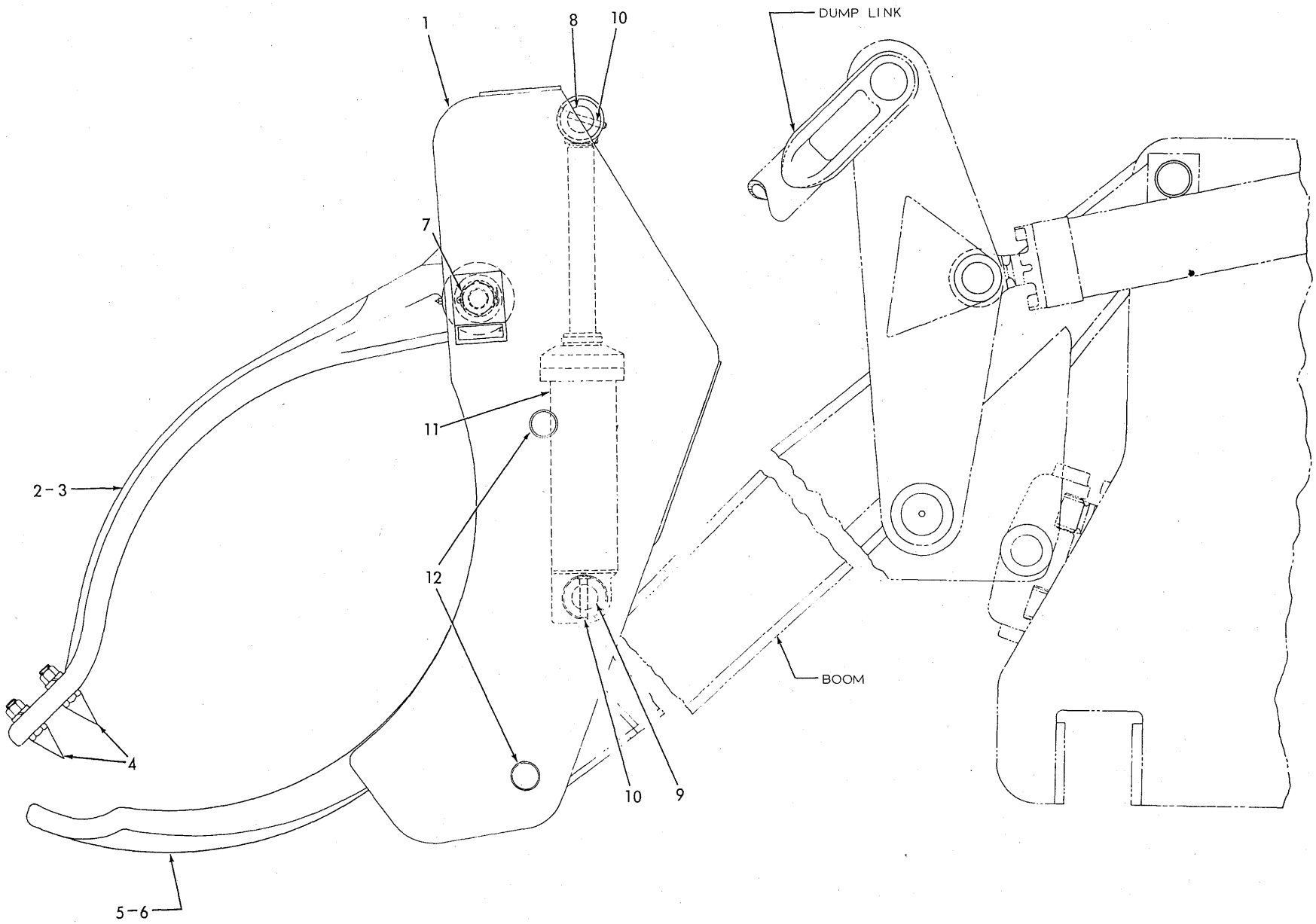

SHOVEL TOOLS

T-27445

# SHOVEL TOOLS

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| - | ------ | 1 | *GAUGE KIT, master (Consists of items 1 thru 18) |
| 1 | ------ | 1 | *CASE, wooden |
| 2 | ------ | 1 | *HOSE ASSEMBLY, gauge |
| 3 | 901764 | 1 | COUPLING, pipe, 1/4"NPT |
| 4 | ------ | 1 | *HOSE ASSEMBLY |
| 5 | 901840 | 1 | BUSHING, pipe reducing (3/4"NPT to 1/4"NPT) |
| 6 | ------ | 1 | *TEE, pipe (3/4"NPT ends x 1/4"NPT side) |
| 7 | ------ | 1 | *GAUGE, pressure (3000 PSI) |
| 8 | 902559 | 3 | SCREW, wood, rd-hd., #6 x 1/2" |
| 9 | 901722 | 1 | ELBOW, street, 90°, 1/4"NPT |
| 10 | ------ | 1 | *PAD, pressure gauge (rubber) |
| 11 | ------ | 1 | *SNUBBER, pressure (Includes piston) |
| 12 | 901839 | 1 | BUSHING, pipe reducing (1/2"NPT to 1/4"NPT) |
| 13 | 910171 | 1 | CONNECTOR, flare type, 5/16" tube, 1/8"NPT male |
| 14 | 911317 | 1 | CONNECTOR, flare type, 5/16" tube, 1/4"NPT male |
| 15 | 920714 | 1 | CONNECTOR, flare type, 3/4" tube, 3/4"NPT male |
| 16 | 904207 | 1 | BUSHING, pipe reducing (1"NPT to 1/4"NPT) |
| 17 | 901826 | 1 | BUSHING, pipe reducing (3/8"NPT to 1/4"NPT) |
| 18 | ------ | 1 | *WRENCH KIT, Allen |
| 19 | ------ | 1 | WRENCH, flare nut (1-1/2" spacing)(Order from Owatonna Tool Co., their no. CSO-48) |
| 20 | 3012743 | 1 | WRENCH, spanner (open end) |
| 21 | 3008880 | 1 | WRENCH, spanner (box end) |
| 22 | ------ | 1 | *TOOL, hose assembly, 1" |
| 23 | ------ | 1 | TOOL ASSEMBLY, tooth (Serviced only as a unit)(Order from Owatonna Tool Co., their no. AC-314) |
| 24 | ------ | 1 | *FIXTURE, pump |
| 25 | 3015528 | 1 | DRIVER, bearing installation |
| 26 | ------ | 1 | *RING, adapter pump |

*Parts indicated above have been discontinued



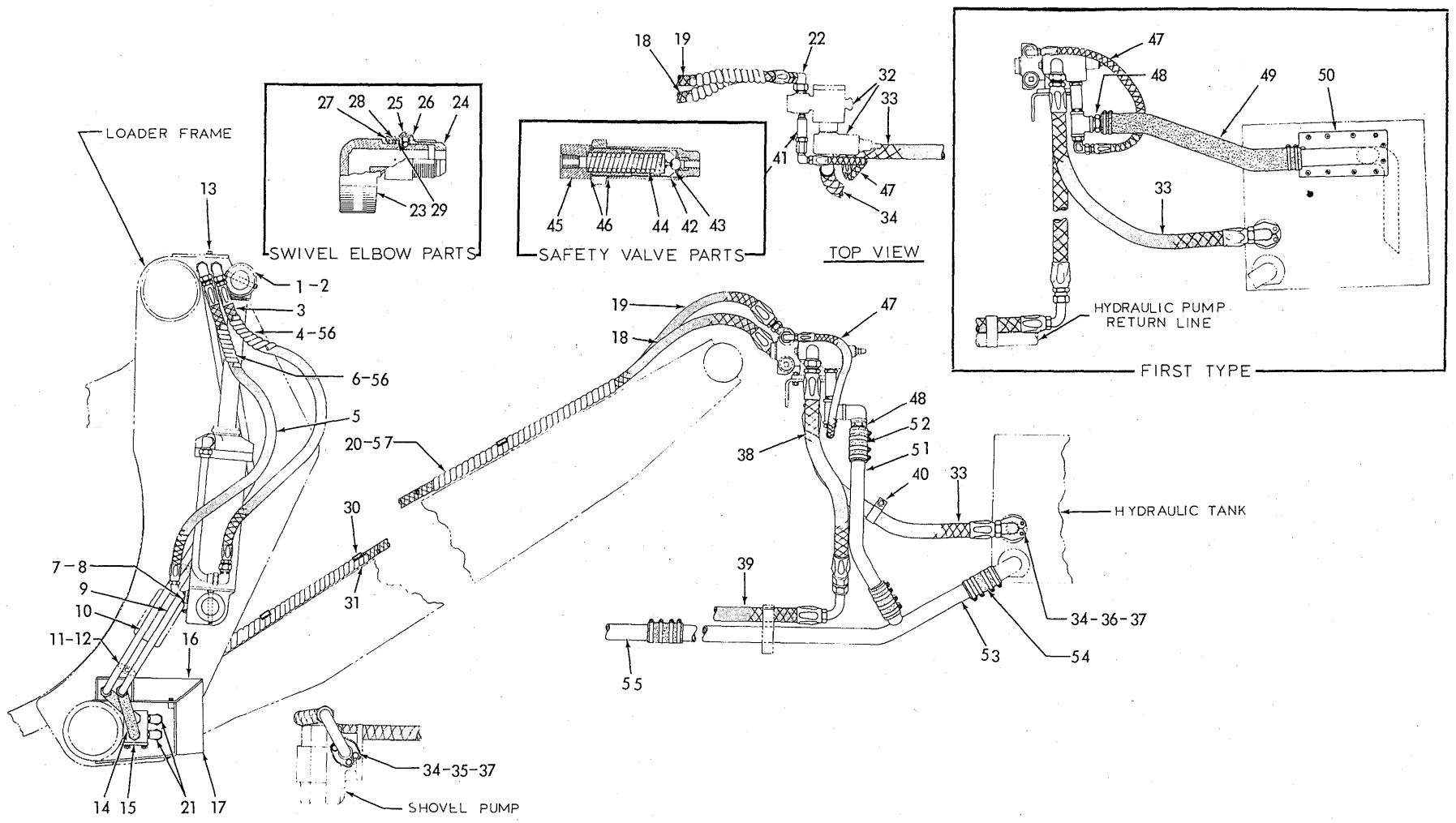

T-71924

LOADER FRAME AND TONGS

# LOADER FRAME AND TONGS

USAGE: For tractors equipped with Pulpwood Loader. Production discontinued.

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 627207 | 1 | FRAME, loader |
| 2 | 627201 | 2 | TONG ASSEMBLY, upper (Includes item 3) |
| | 915276 | 2 | FITTING, lubricating, 90°, 1/8"NPT |
| 3 | 626637 | 4 | BUSHING, upper tong |
| 4 | 3012584 | 4 | CALK, upper tong |
| | 904210 | 4 | LOCKWASHER, 1-1/4" |
| | 913097 | 4 | NUT, 1-1/4"NF |
| 5 | 627134 | 2 | TONG ASSEMBLY, lower (Includes item 6) |
| | 914465 | 4 | FITTING, lubricating, straight, 1/8"NPT |
| 6 | 3008156 | 8 | BUSHING, lower tong |
| 7 | 627136 | 2 | PIN, tong pivot |
| | 626543 | 2 | WASHER |
| | 918530 | 2 | NUT, slotted, 2"NF |
| | 904016 | 2 | PIN, cotter, 3/8" x 4" |
| 8 | 625191 | 2 | PIN, cylinder pivot, upper |
| 9 | 627635 | 2 | PIN, cylinder pivot, lower |
| 10 | 3011625 | 4 | PIN, retaining, cylinder pivot pins |
| | 911440 | 4 | PIN, cotter, 3/16" x 1-1/8" |
| 11 | ------ | - | CYLINDER ASSEMBLY (See LOADER HYDRAULIC CYLINDERS AND PIPING) |
| 12 | ------ | - | PINS, frame pivot (See SHOVEL LINKAGE) |




LOADER HYDRAULIC CYLINDERS AND PIPING

T-71925

# LOADER HYDRAULIC CYLINDERS AND PIPING

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | ------ | 1 | CYLINDER ASSEMBLY, left } Discontinued. See page 653 for parts |
| | ------ | 1 | CYLINDER ASSEMBLY, right } |
| 2 | 627143 | 8 | WASHER, cylinder centering (Use as required) |
| 3 | 627138 | 2 | HOSE ASSEMBLY, tong opening,front (Includes item 4. Also see page 6 for parts) |
| | 921991 | 4 | ELBOW, union, flare type, 90°, 1" tube |
| 4 | ------ | 2 | GUARD, hose protecting (44-1/2" long. Order item 56) |
| 5 | 627618 | 2 | HOSE ASSEMBLY, tong closing, front (Includes item 6. Also see page 6 for parts) |
| | 921991 | 2 | ELBOW, union, flare type, 90°, 1" tube |
| 6 | ------ | 2 | GUARD, hose protecting (47-1/2" long. Order item 56) |
| 7 | 921116 | 4 | FLANGE, split, hose attaching (half only) |
| | 915228 | 8 | CAPSCREW, 3/8"NF x 1-1/4" |
| | 904206 | 8 | LOCKWASHER, 3/8" |
| 8 | 923649 | 2 | O-RING, tong closing hose |
| 9 | 627141 | 1 | TUBE ASSEMBLY, tong opening, left (Includes nuts) |
| | 627142 | 1 | TUBE ASSEMBLY, tong opening, right (Includes nuts) |
| 10 | 627139 | 1 | TUBE ASSEMBLY, tong closing, left (Includes nuts) |
| | 627140 | 1 | TUBE ASSEMBLY, tong closing, right (Includes nuts) |
| 11 | 624931 | 10 | CLAMP, tube supporting |
| 12 | 916422 | 6 | CAPSCREW, 1/2"NF x 2-3/4" |
| 13 | 916424 | 2 | CAPSCREW, 1/2"NF x 3-1/2" |
| | 904208 | 8 | LOCKWASHER, |
| | 911043 | 8 | NUT, 1/2"NF |
| 14 | 627128 | 4 | HOSE ASSEMBLY, tube to manifold block (See page 6 for parts) |
| 15 | 627633 | 1 | BLOCK, manifold |
| | 913249 | 4 | CAPSCREW, 1/2"NF x 1-1/4" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| | 910244 | 4 | WASHER, plain, SAE std., 1/2" |
| 16 | 627632 | 1 | GUARD, hose protecting, front |
| | 916225 | 4 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 4 | LOCKWASHER, 3/8" |
| | 911115 | 4 | WASHER, plain, SAE std., 3/8" |
| 17 | 627638 | 1 | GUARD, hose protecting, rear |
| | 916225 | 5 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 5 | LOCKWASHER, 3/8" |
| | 911115 | 5 | WASHER, plain, SAE std., 3/8" |
| 18 | 627649 | 1 | HOSE ASSEMBLY, tong opening, rear (Includes item 20. Also see page 6 for parts) |
| 19 | 627659 | 1 | HOSE ASSEMBLY, tong closing, rear (Includes item 20. Also see page 6 for parts) |

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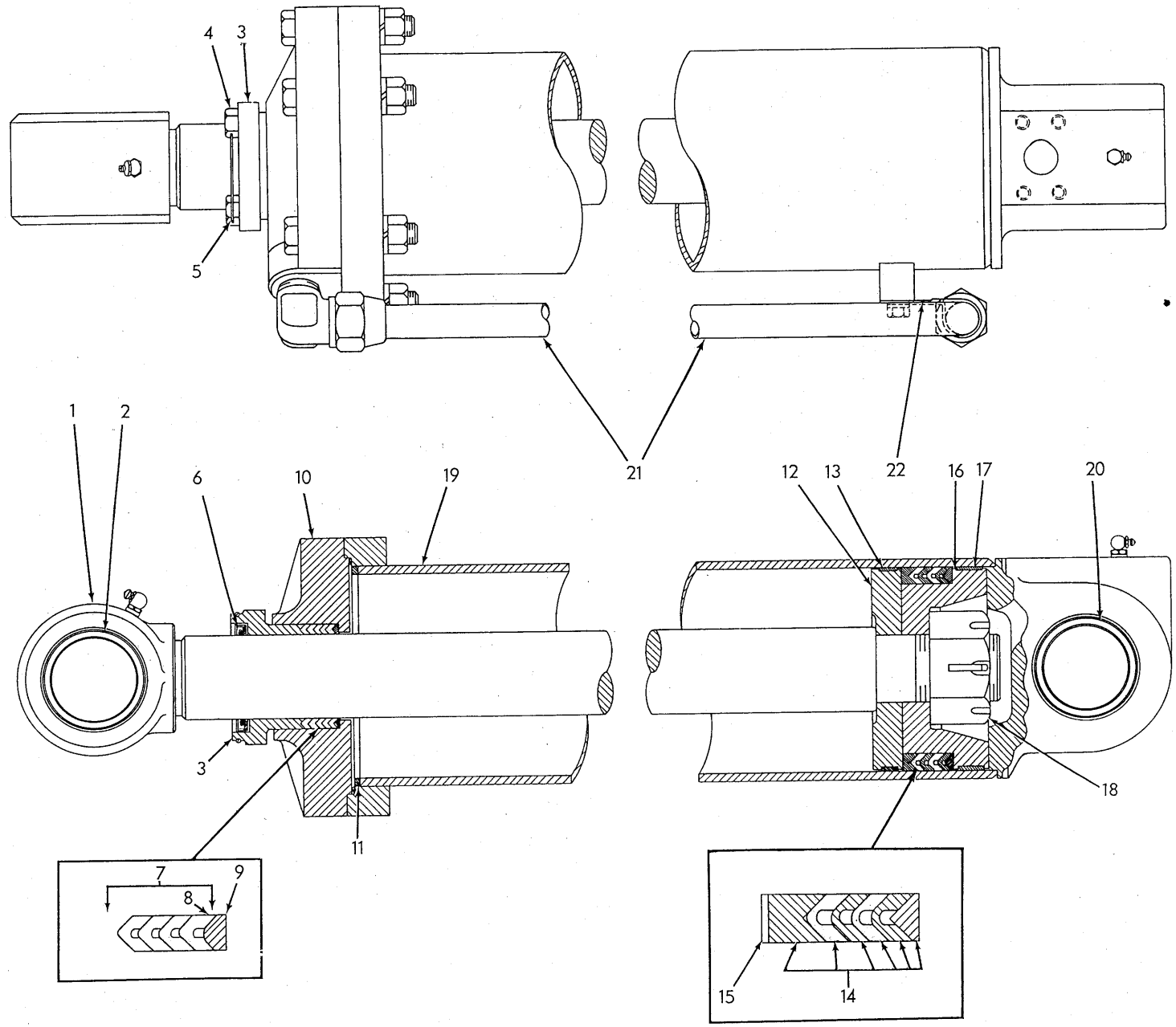
## LOADER HYDRAULIC CYLINDERS AND PIPING (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 20 | ------ | 2 | GUARD, hose protecting (150-1/2" long. Order item 57) |
| 21 | 3009454 | 2 | ELBOW ASSEMBLY, hose swivel, lower (Consists of item 23 thru 29) |
| 22 | 3014050 | 2 | ELBOW ASSEMBLY, hose swivel, upper (Consists of item 23 thru 29) |
| 23 | ------ | 1 | ADAPTER, swivel, male (pipe end. For ELBOW ASSEMBLY 3009454)(Not serviced separately) |
| | ------ | 1 | ADAPTER, swivel, male (flare end. For ELBOW ASSEMBLY 3014050)(Not serviced separately) |
| 24 | ------ | 1 | ADAPTER, swivel, female (Not serviced separately) |
| | 915906 | 16 | BALL, steel, 3/16" diam. |
| 25 | 3009451 | 1 | SCREW, machine, rd.-hd. |
| 26 | 3011236 | 1 | WASHER, plain |
| 27 | 3005895 | 1 | SEAL, swivel adapter |
| 28 | 3009450 | 1 | WASHER, adapter (leather) |
| 29 | 923575 | 1 | O-RING, swivel adapter |
| 30 | 625221 | 4 | CLAMP, hose |
| | 913105 | 4 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 31 | 626382 | 4 | SPACER, hose clamp (Requires welding to install) |
| 32 | ------ | - | VALVES (See LOADER VALVES AND CONTROLS) |
| 33 | 3013972 | 1 | HOSE ASSEMBLY, pressure, tank to valve (See page 6 for parts) (Used prior to shovel #124) |
| | 627777 | 1 | HOSE ASSEMBLY, pressure, tank to valve (See page 6 for parts) (Effective with shovel #124) |
| | 920688 | 1 | ELBOW, flare type, 90°, 1-1/2" tube, 1-1/2"NPT male |
| 34 | 921118 | 4 | FLANGE, hose attaching (half only) |
| 35 | 035061 | 4 | CAPSCREW, 1/2"NC x 1-1/4" (pump end) |
| 36 | 070469 | 4 | CAPSCREW, 1/2"NF x 1-1/4" (tank end) |
| | 904208 | 4 | LOCKWASHER, 1/2" |
| 37 | 923578 | 2 | O-RING, pressure line hoses |
| 38 | 627799 | 1 | HOSE ASSEMBLY, pressure, pump to valve, rear (See page 6 for parts) |
| | 920687 | 1 | ELBOW, flare type, 90°, 1-1/4" tube, 1-1/4"NPT male |
| 39 | 627804 | 1 | HOSE ASSEMBLY, pressure, pump to valve, front (See page 6 for parts) |
| 40 | 3012545 | 1 | CLAMP, pressure line hose (Effective with shovel #124) |
| | 918493 | 1 | CAPSCREW, 1/2"NF x 7/8" |
| | 904208 | 1 | LOCKWASHER, 1/2" |
| | 910244 | 1 | WASHER, plain, SAE std., 1/2" |
| | 3013516 | 1 | BLOCK, tapped (Requires welding to install) |

(Continued)

## LOADER HYDRAULIC CYLINDERS AND PIPING (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION | |
|---|---|---|---|---|
| 41 | 627772 | 1 | VALVE ASSEMBLY, safety (Consists of items 42 thru 46) | |
| | 901829 | 1 | BUSHING, pipe reducing, 1"NPT to 3/4"NPT | |
| 42 | 3019598 | 1 | BODY, valve | |
| 43 | 3019977 | 1 | PLUNGER ASSEMBLY, valve (Includes ball. Serviced only as a unit) | |
| 44 | 3016277 | 1 | SPRING, valve plunger | |
| 45 | 627773 | 1 | CAP, valve | |
| | 910098 | 1 | NUT, jam, 1-1/8"NF | |
| 46 | 3001833 | 2 | WASHER, plain | |
| 47 | 3013865 | 1 | HOSE ASSEMBLY, return, safety valve (See page 6 for parts) | |
| | 920662 | 2 | ELBOW, flare type, 90°, 5/8" tube, 1/2"NPT male | |
| | 901843 | 1 | BUSHING, pipe reducing, 1-1/4"NPT to 1/2"NPT | |
| 48 | 627779 | 1 | ADAPTER, return line | |
| | 901727 | 1 | ELBOW, street, 90°, 1-1/4"NPT (Effective with shovel #124) | |
| | 901708 | 1 | TEE, pipe, 1-1/4"NPT | |
| | 901536 | 1 | NIPPLE, pipe, 1-1/4"NPT x 5" | |
| | 901831 | 1 | BUSHING, pipe reducing, 1-1/2" NPT to 1-1/4"NPT | |
| 49 | 3019484 | 1 | HOSE, valve return | Used prior to shovel #124 |
| | 921913 | 4 | CLAMP, hose, 1-13/16" to 2-3/4" diam. | |
| 50 | 3013953 | 1 | COVER, hydraulic tank (Replaces standard cover) | |
| | 904206 | 12 | LOCKWASHER, 3/8" | |
| | 3019683 | 12 | NUT, aluminum, 3/8"NC | |
| 51 | 627778 | 1 | TUBE, valve return | Effective with shovel #124 |
| 52 | 3005005 | 2 | HOSE, valve return line | |
| | 921913 | 8 | CLAMP, hose, 1-13/16" to 2-3/4" diam. | |
| 53 | 627774 | 1 | TUBE, return line, rear (Replaces standard TUBE 626530) | |
| 54 | 626532 | 2 | HOSE, return line | |
| | 921913 | 8 | CLAMP, hose, 1-13/16" to 2-3/4" diam. | |
| 55 | ------ | - | TUBE, return line, front (See SHOVEL HYDRAULIC PUMP AND LINES) | |
| 56 | 3016477 | - | GUARD, hose protecting, 1-7/32" x 14 ft. roll (Use as required) | |
| 57 | 3016469 | - | GUARD, hose protecting, 1-15/32" x 14 ft. roll (Use as required) | |



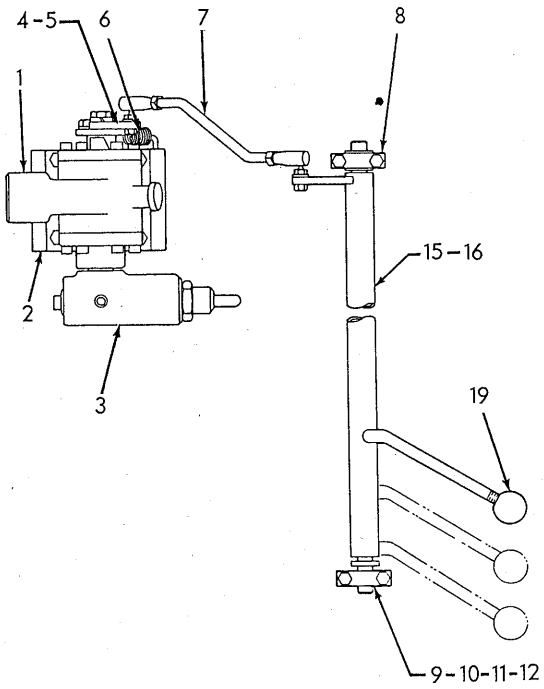

T-71926

LOADER CYLINDER PARTS

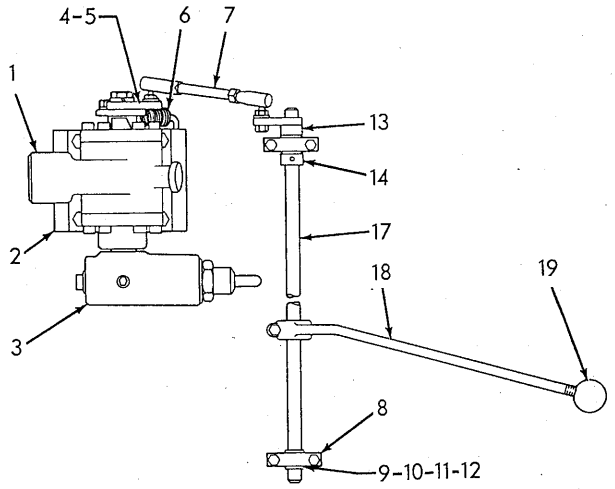
# LOADER CYLINDER PARTS

USAGE: See page 649

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| | | | NOTE: Quantities indicated are for one (1) cylinder only |
| 1 | 627221 | 1 | ROD ASSEMBLY, piston (Includes item 2) |
| | 915276 | 1 | FITTING, lubricating, 90°, 1/8"NPT |
| 2 | 3001119 | 2 | BUSHING, piston rod |
| 3 | 625038 | 1 | GLAND, packing |
| 4 | 3001090 | 2 | CAPSCREW, drilled-hd., 1/2"NC x 1-3/4" |
| 5 | 3001085 | 1 | WIRE, locking, 1/16" x 17" |
| 6 | 3001538 | 1 | SEAL, wiping, piston rod |
| 7 | 3001545 | 1 | PACKING SET, piston rod (Consists of 5 RINGS 3001534) |
| 8 | 3001534 | 5 | RING, packing (duck) |
| 9 | 3001532 | 1 | RING, adapter, male |
| 10 | 625041 | 1 | HEAD, cylinder |
| | 915985 | 6 | CAPSCREW, 5/8"NF x 3-1/2" |
| | 904209 | 6 | LOCKWASHER, 5/8" |
| | 911044 | 6 | NUT, 5/8"NF |
| 11 | 625037 | 1 | O-RING, cylinder head |
| 12 | 3007995 | 1 | PISTON, upper |
| 13 | 3001850 | 1 | RING, piston bearing (1/2" wide) |
| 14 | 3004549 | 1 | PACKING SET, piston (Serviced only as a unit) |
| 15 | 3007809 | - | SHIM, spacing (Use as required) |
| 16 | 3007996 | 1 | PISTON, lower |
| 17 | 3004878 | 1 | RING, piston bearing (3/4" wide) |
| 18 | 3008830 | 1 | NUT, slotted, piston rod (2"NF) |
| | 904015 | 1 | PIN, cotter, 3/8" x 3-1/2" |
| 19 | 627217 | 1 | TUBE ASSEMBLY, left cylinder (Includes item 20) |
| | 627218 | 1 | TUBE ASSEMBLY, right cylinder (Includes item 20) |
| | 915276 | 1 | FITTING, lubricating, 90°, 1/8"NPT |
| 20 | 3001119 | 2 | BUSHING, cylinder tube |
| 21 | 627223 | 1 | TUBE ASSEMBLY, oil (Includes nuts) |
| | 920686 | 1 | ELBOW, flare type, 90°, 1" tube, 1"NPT male |
| 22 | 3001131 | 1 | CLIP, tube supporting |
| | 916225 | 1 | CAPSCREW, 3/8"NF x 1" |
| | 904206 | 1 | LOCKWASHER, 3/8" |
| 23 | 3013193 | 1 | REPAIR KIT (Includes parts for one (1) cylinder only; items 3 thru 7, 9, 11, 13, 14, 17, 1 PIN 904015 and 6 LOCKWASHER 904209) (Not illustrated) |




FIRST TYPE




SECOND TYPE

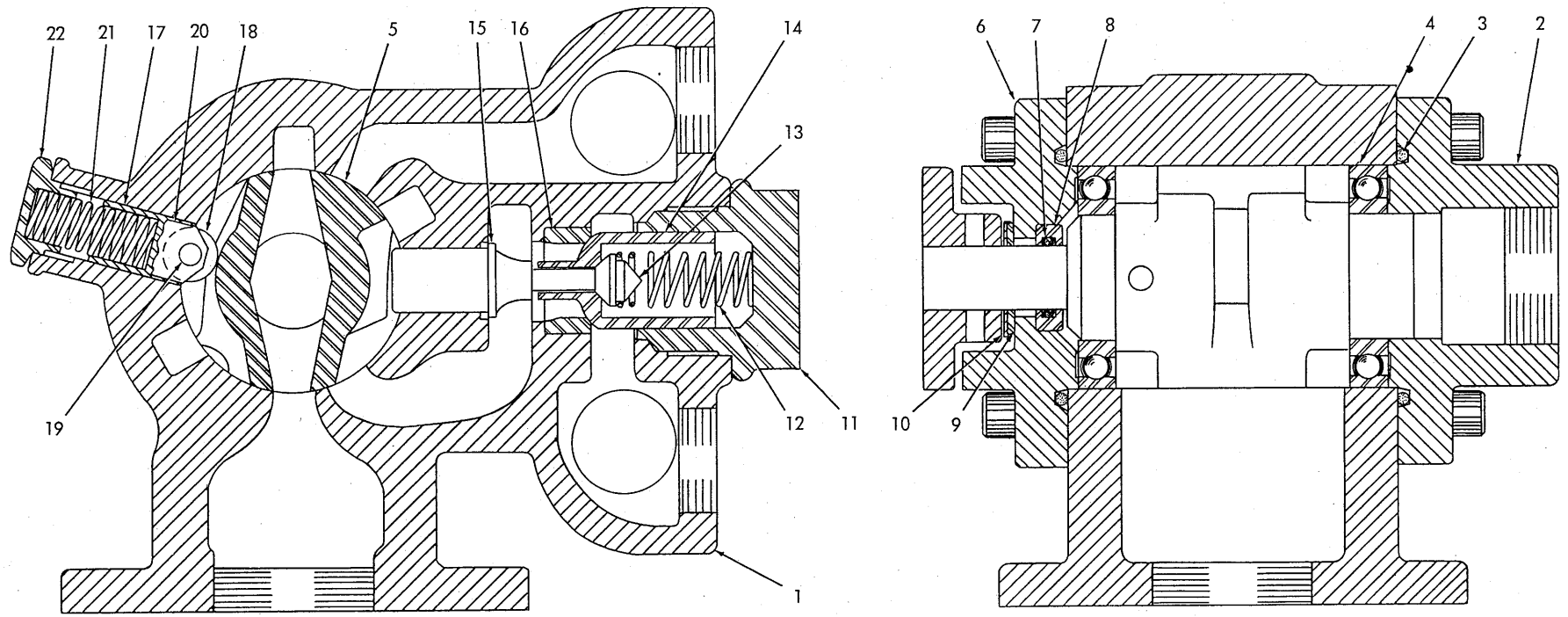
## LOADER VALVES AND CONTROLS

* Shovels prior to serial No. 124
** Shovels serial No. 124 and up

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 1 | 627730 | 1 | 1 | VALVE ASSEMBLY, control (See page 657 for parts) |
| | 901666 | 3 | 3 | PLUG, pipe, ctsk-sq-hd., 1"NPT |
| | 913105 | 4 | 4 | CAPSCREW, 1/2"NF x 1-1/2" |
| | 904208 | 4 | 4 | LOCKWASHER, 1/2" |
| | 911043 | 4 | 4 | NUT, 1/2"NF |
| 2 | 627795 | 1 | 1 | PLATE, valve mounting (Requires welding to install) |
| 3 | 627810 | 1 | 1 | VALVE ASSEMBLY, relief (See page 658 for parts) |
| | 901783 | 1 | 1 | PLUG, pipe, 1/4"NPT (brass) |
| | 912769 | 1 | 1 | PLUG, pipe, 1-1/4"NPT |
| | 901530 | 1 | 1 | NIPPLE, pipe, 1-1/4"NPT x 1-5/8" |
| 4 | 3013979 | 1 | - | LEVER ASSEMBLY, control (Includes item 5) |
| 4 | 627798 | - | 1 | LEVER ASSEMBLY, control (Includes item 5) |
| | 916271 | 3 | 3 | CAPSCREW, 3/8"NC x 1" |
| | 904206 | 3 | 3 | LOCKWASHER, 3/8" |
| 5 | 3013909 | 1 | 1 | BUSHING, control lever |
| 6 | 3007818 | 1 | 1 | SPRING, lever retracting |

(Continued)

| ITEM | PART NO. | QTY. * | QTY. ** | DESCRIPTION |
|---|---|---|---|---|
| 7 | 3019481 | 1 | - | ROD, control valve |
| | 627755 | - | 1 | ROD, control valve |
| | 916764 | 2 | 2 | JOINT, ball, 1/2" diam. |
| | 913177 | 4 | 4 | NUT, jam, 1/2"NF |
| 8 | 627800 | 2 | 2 | BLOCK ASSEMBLY, pillow (Serviced only as a unit) |
| | 920614 | 4 | 4 | CAPSCREW, 3/8"NF x 5-1/2" |
| | 904206 | 4 | 4 | LOCKWASHER, 3/8" |
| | 911041 | 4 | 4 | NUT, 3/8"NF |
| 9 | 626721 | 2 | 2 | BEARING ASSEMBLY, control shaft (Includes items 10, 11 and 12) |
| 10 | 208253 | 2 | 2 | BEARING, control shaft |
| 11 | 052662 | 4 | 4 | SEAL, control shaft bearing |
| 12 | 626720 | 2 | 2 | RETAINER, control shaft bearing |
| 13 | 626730 | - | 1 | SPACER, control shaft (outer) |
| 14 | 627781 | - | 1 | SPACER, control shaft (inner) |
| | 915797 | - | 1 | PIN, roll, 3/16" x 1-1/4" |
| 15 | 3019496 | 1 | - | LEVER ASSEMBLY, operating (Includes item 16) |
| | 911386 | 2 | - | WASHER, plain, 3/4" (For spacing. Use as required) |
| 16 | 3013909 | 1 | - | BUSHING, operating lever |
| 17 | 627787 | - | 1 | SHAFT, control |
| 18 | 627780 | - | 1 | LEVER, operating |
| | 905122 | - | 1 | KEY, #7 woodruff, 1/8" x 3/4" |
| | 916385 | - | 1 | CAPSCREW, 3/8"NF x 2" |
| | 904206 | - | 1 | LOCKWASHER, 3/8" |
| | 911041 | - | 1 | NUT, 3/8"NF |
| 19 | 3001171 | 1 | 1 | KNOB, operating lever |



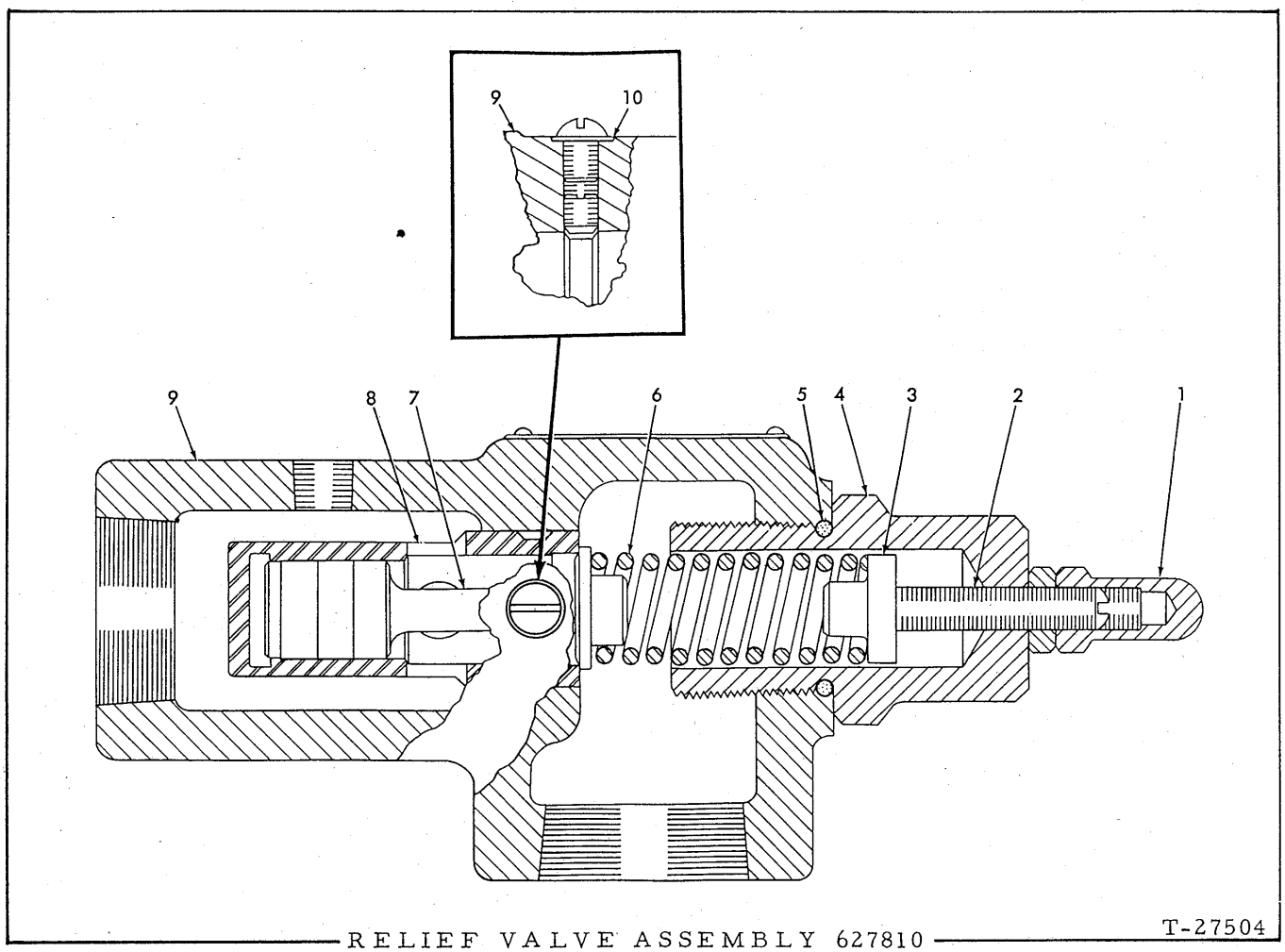

CONTROL VALVE ASSEMBLY 627730

T-27505

# CONTROL VALVE ASSEMBLY 627730

USAGE: See page 654

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 627771 | 1 | HOUSING, valve |
| | 901666 | 3 | PLUG, pipe, ctsk-hd., 1/2"NPT |
| 2 | 627770 | 1 | COVER, inlet side |
| | 917733 | 6 | CAPSCREW, hex-socket-hd., 3/8"NC x 1-1/4" |
| 3 | 923829 | 2 | O-RING, cover |
| 4 | 607905 | 2 | BEARING, ball, valve |
| 5 | 627769 | 1 | CAM ASSEMBLY, valve (Serviced only as a unit) |
| 6 | 627767 | 1 | COVER ASSEMBLY, control side (Includes items 3, 7 and 8) |
| | 917733 | 6 | CAPSCREW, hex-socket-hd., 3/8"NC x 1-1/4" |
| 7 | 923574 | 1 | O-RING, cam |
| 8 | 607647 | 1 | RETAINER, cam o-ring |
| 9 | 607909 | 1 | WASHER, valve stem (felt) |
| 10 | 607910 | 1 | RETAINER, valve washer |
| 11 | 607043 | 1 | CAP, check valve |
| 12 | 607324 | 1 | SPRING, check valve |
| 13 | 607045 | 1 | VALVE, check, inner |
| 14 | 607044 | 1 | VALVE, check, outer |
| 15 | 607046 | 1 | PLUNGER, check valve operating |
| 16 | 627766 | 1 | SEAT, check valve |
| 17 | 627762 | 1 | ROLLER ASSEMBLY, cam (Consists of item 18 thru 20) |
| 18 | 627764 | 1 | ROLLER, cam |
| 19 | 627763 | 1 | PIN, cam roller |
| 20 | 627765 | 1 | PLUNGER, cam roller |
| 21 | 3015072 | 1 | SPRING, cam roller |
| 22 | 3015071 | 1 | CAP, cam roller |




RELIEF VALVE ASSEMBLY 627810

USAGE: See page 654

| ITEM | PART NO. | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 3002757 | 1 | NUT, acorn (3/8"NF) |
| | 911048 | 1 | NUT, jam, 3/8"NF |
| 2 | 922174 | 1 | SCREW, adjustment |
| 3 | 3003912 | 1 | GUIDE, spring |
| 4 | 3003916 | 1 | CAP, end |
| 5 | 923649 | 1 | O-RING, end cap |
| 6 | 3023925 | 1 | SPRING, pressure relief plunger |
| 7 | 3003914 | 1 | PLUNGER, pressure relief |
| 8 | 3003915 | 1 | SEAT, pressure relief plunger |
| | 912236 | 1 | SETSCREW, hex-socket, cup-pt., 5/16"NC x 1/2" |
| 9 | ------ | 1 | HOUSING, valve (Not serviced separately) |
| | 914372 | 1 | SCREW, machine, 5/16"NC x 3/8" |
| 10 | 3001737 | 1 | WASHER, sealing |

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