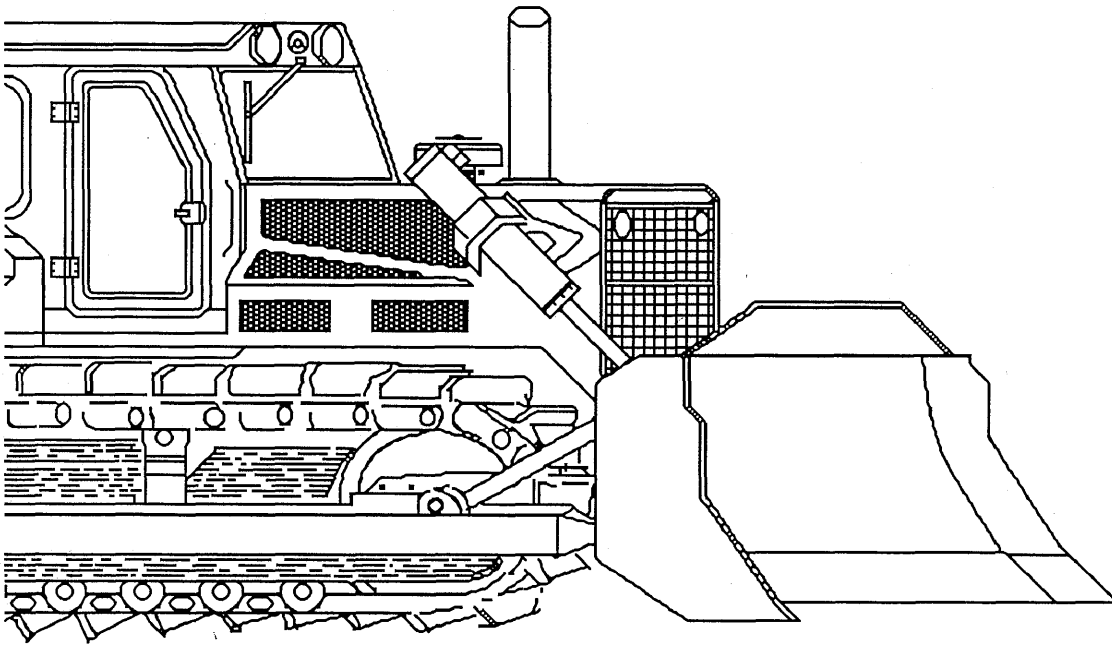


21-B

Crawler Tractor

PARTS CATALOG



FORM 70696413 ENGLISH
Reprint 10/89

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 caused by the use of parts and/or components not approved by Fiatallis.

21-B

crawler tractor

parts catalog

S/N 16005 THRU 16550

S/N 10S16551-UP

Form 70696413 English



WARNING

STUDY THE OPERATION AND MAINTENANCE
INSTRUCTION MANUAL THROUGH BEFORE
STARTING, OPERATING, MAINTAINING,
FUELING OR SERVICING THIS MACHINE.



SUPPLEMENT NO. 2
PARTS CATALOG FORM 70696413
21-B CRAWLER TRACTOR

(7-77)

ATTENTION: Insert this sheet in the front of publication as record receipt.
Replace or add pages in the publication according to instructions below.

Additional copies of this supplement are available. Please direct your request to
Fiat-Allis Construction Machinery, Inc., Technical Publications
6th Street, Springfield, Illinois, 62710 U.S.A.
t., 3000 South

11 Revised
12 Revised

143 No change
144 Revised

147 Revised
148 No change

12A Added
BLANK

145 Revised
146 Revised

NOTE: This supplement includes replacement data required to service tractor Transmission Front Roller and/or added pages providing data required with service replacement

All data herein appears in profile PCA-1, 184

NOTICE
THESE CHANGES ARE
INCLUDED IN THIS COPY



SUPPLEMENT NO. 1
PARTS CATALOG FORM 70696413
21-B CRAWLER TRACTOR

(7-75)

ATTENTION: Insert this sheet in the front of publication as record of receipt.
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6th Street, Springfield, Illinois, 62710 U.S.A.*

57 (No change)
57A (Added)

57B (Added)
58 (Revised)

73 (Revised)
74 (No change)

125 (Revised)
126 (No change)

249 (Revised)
249A (Added)

249B (Added)
250 (No change)

NOTICE
THESE CHANGES ARE
INCLUDED IN THIS COPY

NOTE: All data contained herein appears on 21-B Microfiche PCA-1.184

IMPORTANT

All parts listed herein, which have no specific usage indicated, are applicable to all models. Those parts which are used only on specific models are so indicated.

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".

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

INSTRUCTIONS FOR ORDERING PARTS

At the time this parts catalog was published the listed part numbers were current. It is our policy to constantly improve our machines and therefore, part numbers and design may change. When ordering parts, verify part numbers through your dealer's parts catalog which is up to date with all latest part numbers.

Order parts from the dealer covering the local territory.

ALWAYS GIVE THE MODEL AND SERIAL NUMBER OF MACHINE. IF PARTS ARE FOR AN ASSEMBLY WHICH HAS A MODEL AND/OR SERIAL NUMBER (SUCH AS ENGINE ASSEMBLY, PUMP ASSEMBLY), ALSO INCLUDE THIS INFORMATION.

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.

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

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.

(Specifications and design subject to change without notice)

ADDITIONAL PUBLICATIONS

Additional publications pertaining to this model and to all other Fiat-Allis products are available through Fiat-Allis dealers. Publications are generally available in several languages. Refer to Service Publications Index Form 70658800 for all such publications; the index is available free from Fiat-Allis.

MODEL IDENTIFICATION

MODEL SYMBOL	ENGINE MODEL	DESCRIPTION
21-B	21000-Mark II	Diesel engine driven crawler tractor
21HSU		Hydraulically-operated; semi-U-type moldboard
21HU		Hydraulically-operated; full U-type moldboard
21HA		Hydraulically-operated; angling moldboard
21CSU		Cable-operated; semi-U-type moldboard
21CA		Cable-operated; angling moldboard
21R		Hydraulically-operated Ripper

Cable - control power units are not included herein. Refer to following:

Gar Wood Model 181 (rear-mounted single-drum)	} Order parts from Gar Wood Industries, Findlay, Ohio 45840
Gar Wood Model 281 (rear-mounted double-drum)	

RECORD YOUR SERIAL NUMBERS BELOW

MODEL SERIAL NUMBER _____	ENGINE SERIAL NUMBER _____
DOZER SERIAL NUMBER _____	RIPPER SERIAL NUMBER _____

SERIAL NUMBER LOCATIONS

TRACTOR SERIAL NO.	On right side of steering clutch housing, upper rear corner. Also on small plate attached to top of steering lever housing.
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 top of steering lever housing.
DOZER SERIAL NO.	On a small plate attached to the back of the moldboard near the upper right-hand corner.
RIPPER SERIAL NO.	On a small plate attached to middle right side of mounting frame.

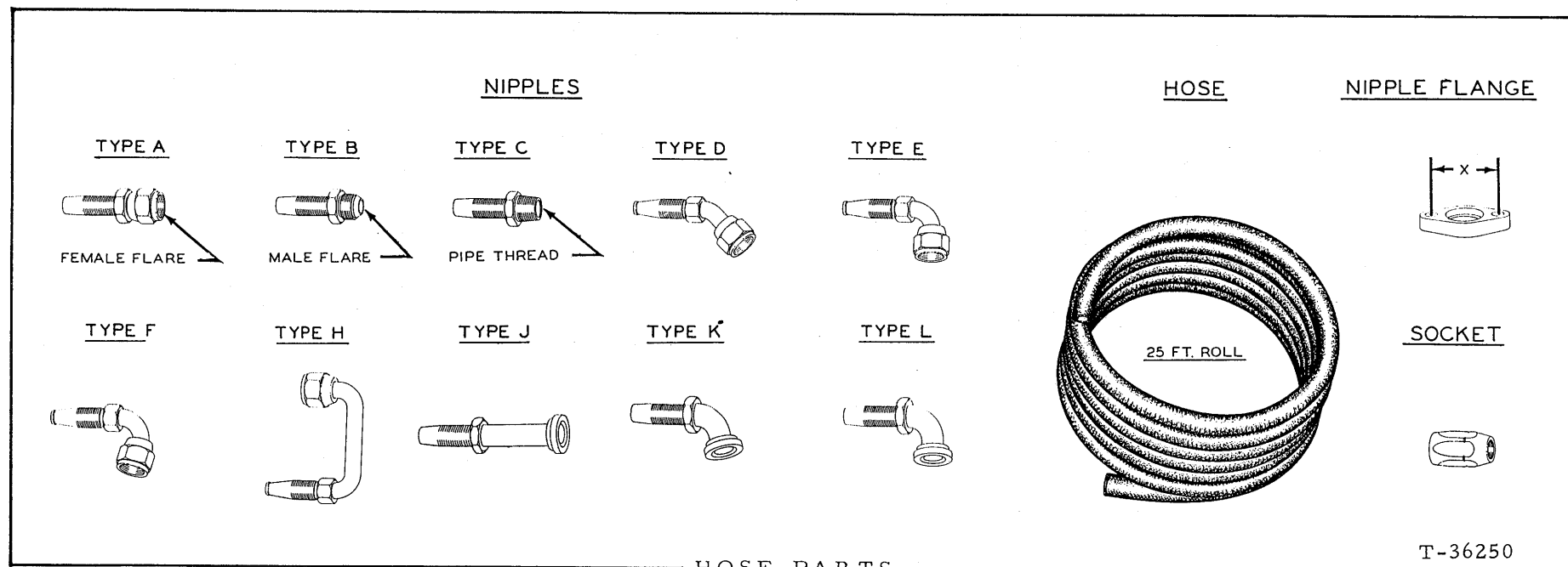
MODEL SERIAL NUMBER

Models are identified by an 8-character combination of letters and numerals.

*SERIAL NUMBERS, consisting of all 8 characters must always be submitted for positive identification of your machine. This Point Cannot Be Over-emphasized.

TRACTOR MODEL	*SERIAL NO.	
	PRODUCT CODE	UNIT NO.
21-B	1 0 S	1 6 5 5 1

Accessory Drive	33	Equalizing Beam	242
Air Cleaner	93, 97	Exhaust Extension	88
Air Intake and Exhaust Extensions	88	Exhaust Manifold	86
Air Restriction Indicator	93	Exhaust Pipe	87
Alternator	276	Fan	109
Auxiliary Valve and Control	344	Fan Guard	105
Batteries and Cables	273	Filters	
Battery and Tool Boxes	275	Coolant	118
Battery Box Lock	275	Engine Oil	46, 50
Belt, Drive	109, 117	Fuel	52, 54, 56
Belt, Safety	247	Steering Oil	195
Bevel Gear and Shaft	177	Transmission Oil	156
Bottom Guards	226	Final Drive	
Brake Control	208	Housing	179
Brake Drum	181, 185	Intermediate Gears	190
Brake Valve And Lines (Safety)	221	Outboard Bearing and Seal	189
Brakes	212, 215, 218	Pinion Shaft	181, 185
Bumper	222	Sprocket, Shaft and Gear	187
Cab	285	Floor	250
Camshaft	29	Flywheel	25
C-Frame	300	Flywheel Housing	24
Connecting Rod	22	Front Fenders	251
Control Valves	329, 330	Fuel Filter	52, 54, 56
Coolant Filter	118	Fuel Injection Pump	63, 69
Counter Weight	287	Fuel Lines	58
Cowl	260	Fuel Tank	61
Crankcase Guard	222, 226	Fuel Tank and Seat Guard	292
Crankshaft	20	Gauges	
Crankshaft Pulley and Damper	19	Air Restriction Indicator	93
Cylinder Block	16	Ammeter	278
Cylinder Head	27	Bevel Gear Comp. Oil Level	179
Cylinders		Engine Oil Level	16
Ripper	320	Engine Oil Pressure	281
Dozer	312	Engine Temperature	278
Tilt	304, 306	Fuel Level	61
Cylinder Piping (Ripper)	323	Fuel Pressure	280
Cylinder Sleeve	16	Hour Meter	35, 283
Decelerating Brake	212	Transmission Hydraulic Pressure	282
Drawbar	243, 244, 245	Transmission Lube Oil Pressure	282
Elements		Transmission Oil Level	138
Air Cleaner	95	Heat Exchangers	112
Coolant Filter	118	Hood	258
Engine Oil Filter	46, 50	Hose Parts	6
Fuel Filter	52, 54, 56	Hour Meter	35, 283
Main Housing Breather	179	Hydraulic Tank and Control Valve	325
Steering Oil Filter	198, 199	Hydraulic Tilt	302
Transmission Breather	155	Hydraulic Tilt Piping	308
Transmission Oil Filter	156	Injection Nozzles and Lines	65, 71
Engine Breather	29	Injection Pump	63, 69
Engine Clutch Scavenging System	134, 135	Instruments	278
Engine Decelerator	77	Intake Manifold	79
Engine and Mounting	14	Lights	
Engine Primer	98, 99	Dash	278
Engine Shut-off Control	73, 75	Head	265
		Rear Flood	268
		Tail	270
		Lights and Wiring	265
		Main Frame	222
		Main Housing	181



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) Part No.
			Including SOCKET	NIPPLE only	Type	Including SOCKET	NIPPLE only	Type		Part No.	X Dim	
	70920221	16-3/4	70920867	70919277	E	70920867	70919277		70919281			70644608
	70919218	14-3/8	70920850	70920303	A	70920880	70919254	D	70919076			70645074
	70920221	113-1/2	70920852	70920344	A	70920867	70919277	E	70919281			70645239
	70919155	12-5/8	70920849	70920302	A	70920879	70919159	D	70919075			70646142
	70920795	42-3/8	70920945	70922831	A	70920928	70920970	C	70920973			70646220
	70919196	22-1/4	70920847	70920301	A	70920862	70919194	E	70919143			70646910
	70920795	29	70920945	70922831	A		70923263	L	70920973			70647732
	70920795	27-1/4	70920945	70922831	A	70920935	70921304	B	70920973			70648417
	70920795	58-1/4	70920945	70922831	A	70920935	70921304	B	70920973			70648429

70648430	70650967	70651999	70652025	70652026	70652911	70656849	70658639	70660690	70660842	70660850	70660875	70660876	70660877	70664399	70665638	70665641	70665685	70666196	70666746	70667245	70667453	70667454	70667718	70667719	70667720	70668516	70669206	70669207	70669219	70669220	70669230
70920795	70919156	70919155	70919156	70919156	70920221	70919156	70919196	70920794	70919196	70920222	70920222	70920222	70920222	70919155	70920794	70920794	70919156	70919156	70920795	70920221	70919156	70919156	70919156	70919156	70919156	70919196	70919156	70919156	70919156	70920794	70920222
62-7/8	11-1/2	16-3/16	39-3/8	37-1/2	23	31-3/4	48	85-3/4	14-3/8	20-1/2	30-13/16	17-7/16	38-3/4	32-1/4	42	25-1/2	28	7-1/4	44	26-3/4	28-3/4	15-1/2	20-3/4	11	19-3/4	36-13/16	44-7/8	41-3/8	38	16-1/4	20
70920935	70920850	70920849	70920857	70920858	70920852	70920303	70920862	70923253	70920847	70920862	70921034	70920144	70921034	70920302	70923253	70920944	70921513	70920850	70920945	70920852	70920344	70920303	70919254	70920303	70919080	70920858	70920847	70920850	70919081	70920944	70921034
B	A	A	B	B	A	A	E ^{short}	J	A	E	A	E	A	A	J	A	L	A	A	A	A	D	B	B	B	A	A	A	E	A	A
70920953	70919080	70919079	70919082	70919081	70920344	70920303	70919253	70923253	70920847	70920862	70922505	70920144	70921495	70919159	70922894	70920253	70921513	70920865	70919081	70920867	70919277	70920303	70919081	70919080	70919076	70920880	70920862	70920850	70920303	70922894	70922505
70923251	70919076	70919075	70919075	70919076	70919281	70919076	70919143	70920972	70919143	70919143	70919282	70919282	70919282	70919075	70920972	70920972	70920972	70919076	70920973	70919281	70919076	70919076	70919076	70919076	70919076	70919143	70919076	70920303	70920972	70919282	70919282

(Revised August 1979)

PACKAGED PARTS

PACKAGE
NUMBER

70689189

DESCRIPTION

FINAL DRIVE KIT (For up-dating Top and Intermediate Pinion Shaft
bearings on tractors prior to Serial No. 10S18516)

4	70023633	LOCKWIRE
2	70052066	PIN
16	70052444	LOCK
8	70067520	SHIM (.010")
8	70075679	KEY
6	70080547	PIN
4	70082303	RING
2	70082309	GASKET
2	70082312	BOOT
2	70082317	FOLLOWER ASSY.
2	70082320	GASKET
4	70082322	RING
2	70082323	BOOT
4	70082356	SHIM (.010")
4	70082357	SHIM (.007")
4	70082358	SHIM (.005")
24	70084050	SHIM (.010")
12	70084432	PIN
2	70621486	GASKET
2	70623136	GASKET
2	70623346	SEAL
2	70667168	GASKET
7	70667252	GASKET
2	70669770	FOLLOWER ASSY.
2	70690618	CUP AND CONE ASSY.
2	70690619	CUP AND CONE ASSY.
2	70681558	LOCK
4	70681559	WASHER
2	70683970	BEARING
2	70684126	PINION
2	70684128	RETAINER
2	70684130	RETAINER
2	70684136	PINION
24	70684139	SHIM
2	70684140	RETAINER
2	70684176	RING
2	70684568	LOCK
4	70684726	CAPSCREW
2	70689127	BEARING
2	70689128	BEARING
2	70690218	BEARING
2	70690219	BEARING
2	70904016	PIN, cotter
2	70905357	BALL
4	70905358	BALL
2	70905360	BALL
2	70923575	O-RING
2	70923824	O-RING
4	70927597	CAPSCREW
4	70928506	CAPSCREW
1	-----	SKETCH S-5787 (For required re-work)
1	70689968	SERVICE MANUAL, "FINAL DRIVES"
1	70685051	INSTRUCTION SHEET
4	70695225	SEAL

PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
74396046	GASKET KIT, cylinder head
1	70928905 O-RING, water outlet manifold
2	74025781 GASKET, turbocharger mounting
1	74029746 GASKET, front cross over
8	74254873 WASHER, rocker cover capscrew
8	74255956 SLEEVE, fuel line (rubber)
1	74339532 GASKET, turbocharger oil drain
1	74361551 GASKET, air intake elbow
1	74376520 GASKET, thermostat housing cover
6	74378031 GASKET, nozzle
1	74386137 GASKET, thermostat by-pass tube
12	74387697 GASKET, intake and exhaust manifold
2	74389961 GASKET, cylinder head cover (upper)
1	74391707 GASKET, air inlet
2	74393989 GASKET, cylinder head cover (lower)
1	74395425 GASKET, manifold connecting
2	74395487 GASKET ASSY., cylinder head (Includes instruction sheet)
6	74395709 GASKET, water outlet manifold
1	74395713 GASKET, cover
74396006	GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets)
2	70667252 GASKET, drain plug
8	70923379 O-RING, water tube
1	70923575 O-RING, idler pin
3	70923590 O-RING, cover plate
8	70923645 O-RING, injection pump line
2	70923651 O-RING, bonnet tube
2	70923810 O-RING, dowel
1	70923813 O-RING, idler gear pin
5	70923934 O-RING
1	70923935 O-RING, water pump flange
1	70923936 O-RING, cam
1	70923950 O-RING, idler support mounting
12	70925612 O-RING, water inlet manifold
1	70924142 O-RING, pump adapter
2	74113897 GASKET, cap nut
4	74119937 GASKET, plugging capscrew
5	74255511 O-RING, heat exchanger/oil filter
2	74255513 O-RING, oil filter
14	74255631 O-RING, oil cooler
4	74255665 O-RING, fuel pump bracket
2	74255781 O-RING, heat exchanger elbow
1	74255898 O-RING
1	74255904 O-RING
1	74255912 O-RING, flywheel
1	74310257 GASKET, oil filler pipe
1	74336897 O-RING, flywheel housing
1	74361740 GASKET, idler support
1	74367090 GASKET, tachometer hole nut
1	74371027 GASKET, gear housing hole cover
2	74371160 GASKET, heat exchanger
1	74371289 GASKET, oil pan cover

(Continued)

(Revised August 1979)

PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
74396006 (Cont'd)	GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets) 3 74371345 GASKET, oil tube 1 74371742 GASKET, cover 1 74376398 GASKET, water pump 1 74376603 GASKET, accessory drive 1 74376609 GASKET, gear housing cover 7 74376749 WASHER, push rod cover capscrew 2 74377120 GASKET, push rod cover 2 74378112 GASKET, lower by-pass flange 1 74379070 SEAL, oil pan 1 74385317 GASKET, water manifold 1 74385320 GASKET, bonnet 1 74386223 GASKET, bonnet 1 74386495 GASKET, water and oil manifold, lower 1 74386856 GASKET, heat exchanger 1 74387525 GASKET, cover 1 74389291 GASKET, water and oil manifold, upper 1 74389635 GASKET 1 74389676 GASKET, heat exchanger 1 74389678 GASKET, heat exchanger 3 74389782 GASKET, oil tube 1 74390432 GASKET, housing cover 4 74393359 GASKET, oil lines 1 74394673 GASKET, timing hole cover 1 74396000 GASKET, timing gear housing cover 1 74395999 GASKET, timing gear housing 1 74660423 GASKET, oil line 1 74660492 GASKET, gear housing
74394054	PISTON AND SLEEVE KIT (Engines prior to #21-13092) 2 74253749 RETAINER, piston pin 2 74385485 O-RING, cylinder sleeve (red) 1 74390175 PIN, piston 1 74391473 SLEEVE, cylinder 1 74391487 PISTON 2 74393426 O-RING, cylinder sleeve (black) 1 74394053 RING SET, piston
74396647	PISTON AND SLEEVE KIT (Engine #21-13092 and up) 1 74061528 SLEEVE, cylinder 1 74396638 PISTON ASSY.
-----	RING SET (See PISTON AND CONNECTING ROD)
-----	SEAL KIT (See FINAL DRIVE section, TRACK CARRIER ROLLER, TRACK IDLER and TRACK ROLLERS)
-----	SEAL KIT, cylinder assembly (See DECELERATING BRAKE)
70676096	TORQUE CONVERTER UP-DATE KIT (For up-dating driving flange of convertors prior to #256501) 1 70655619 SEAL, dozer pump drive 1 70657982 GASKET, gear housing 1 70658931 GASKET, piston sealing (outer) 1 70666039 GASKET, piston sealing (inner) 1 70668281 CARRIER, sealing ring 1 70668837 VALVE ASSY., check 2 70670386 WASHER, hub spacing 1 70670411 BEARING, roller, idler gear

(Continued)

PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
70676096 (Cont'd)	TORQUE CONVERTER UP-DATE KIT (For up-dating driving flange of convertors prior to #256501)
	3 70681070 RING, sealing, output shaft
	1 70689378 WASHER, thrust
	1 70689379 NUT, retaining, clutch piston carrier
	1 70689380 WASHER, retaining nut
	1 70689381 FLANGE ASSY., driving
	1 70698909 SPIDER ASSY.
	1 70698910 HUB ASSY.
	1 70698911 GEAR ASSY.
	1 70698913 RING
	2 70917947 PIN, spring
	1 70923585 O-RING, dozer pump drive
	1 70930207 SETSCREW
-----	TRANSFER KIT (See PAINTING AND MARKING)
70696699	GASKET KIT, torque converter
	1 70640636 GASKET
	1 73126342 SEAL
	1 70657980 GASKET
	1 70657982 GASKET
	1 70657983 GASKET
	1 70658008 GASKET
	1 70658009 GASKET
	1 70658010 GASKET
	1 70658026 GASKET
	1 73126336 SEAL
	1 70658931 GASKET
	1 70666039 GASKET
	3 70921885 O-RING
	2 70923561 O-RING
	1 70935011 O-RING
	4 70923664 O-RING
	1 70926288 O-RING
	1 70924828 O-RING
70696698	SEAL AND GASKET KIT, transmission
	1 70627346 GASKET
	1 70648619 SEAL
	1 70652389 GASKET
	1 70653798 GASKET
	1 70654104 GASKET
	1 70657582 SEAL
	1 70662663 GASKET
	1 73118975 SEAL
	2 70667252 GASKET
	1 70667563 GASKET
	1 70670673 MINOR KIT
	1 70691449 GASKET
	1 70921235 O-RING
	1 70923578 O-RING
	2 70923561 O-RING
	1 70923587 O-RING
	2 70923664 O-RING
	1 70923819 O-RING
	1 70923821 O-RING

(Continued)

(Revised May 1981)

PACKAGE No. DESCRIPTION

70696698 (Cont'd) SEAL AND GASKET KIT, transmission

1	70923823	O-RING
1	70923828	O-RING
1	70923834	O-RING
2	70923947	O-RING
1	70925241	O-RING
1	70925652	O-RING
4	70929881	O-RING
2	70931695	O-RING
3	73037676	O-RING
3	73057684	SEAL
5	73107685	O-RING

73112623 TRANSMISSION FRONT ROLLER BEARING KIT (For updating transmission front bearings from ball-type to roller type.

1	70023633	LOCKWIRE	
2	70035689	CAPSCREW	
1	70921402	ELBOW	} Discard. Not applicable
2	70921409	CONNECTOR	
1	70921573	PLUG	
2	70922457	CONNECTOR	
1	70923905	ELBOW	
2	70928460	WASHER	
4	70929881	O-RING	
2	73108564	CONNECTOR	
1	73112617	RING, snap	
8	73112618	SHIM	
8	73112619	SHIM	
4	73112620	BEARING	
8	73112631	SHIM	
8	73112622	SHIM	
1	73112624	RETAINER	
1	73112625	WASHER	
1	73112626	COLLECTOR	
3	73112630	SPACER	

74394971 OIL PUMP CONVERSION KIT (Includes "ACULOP" pump, piping, and oil pan for engines prior to S/N 21-11796)

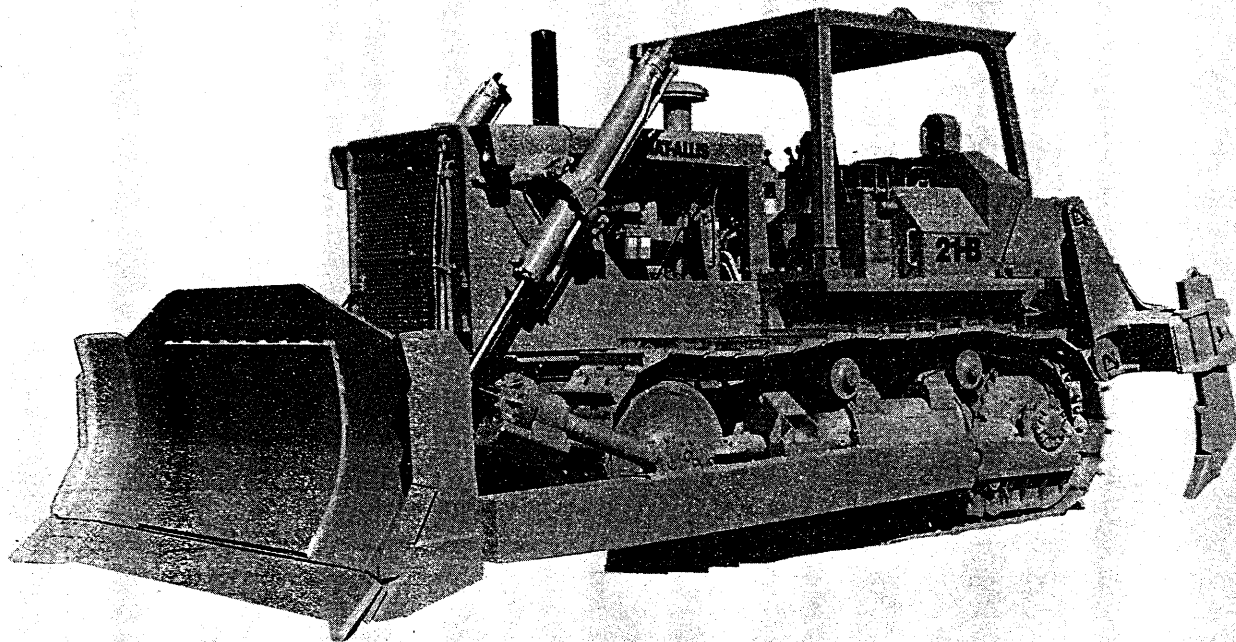
1	70035250	PLUG
1	70667252	GASKET
1	70902872	SETSCREW
2	70911992	WASHER
34	70912007	WASHER
4	70914678	LOCKWASHER, 7/16"
2	70916313	CAPSCREW, 1/2"NC x 1-3/4"
8	70916543	LOCKWASHER, internal tooth, 3/8"
4	70916871	NUT, elastic stop, 5/16"NC
1	70918851	PLUG, pipe, 3/4"NPT
1	70919822	NIPPLE, 1/2"NPT x 3-1/4"
1	70921216	PLUG, 1-5/16" NF (Includes 70921214 O-RING)
2	70921569	CAPSCREW, 7/16"NC x 1-1/4"
4	70922064	CAPSCREW, 12 pt. hd., 1/2"NC x 1"

(Continued)

(Revised August 1979)

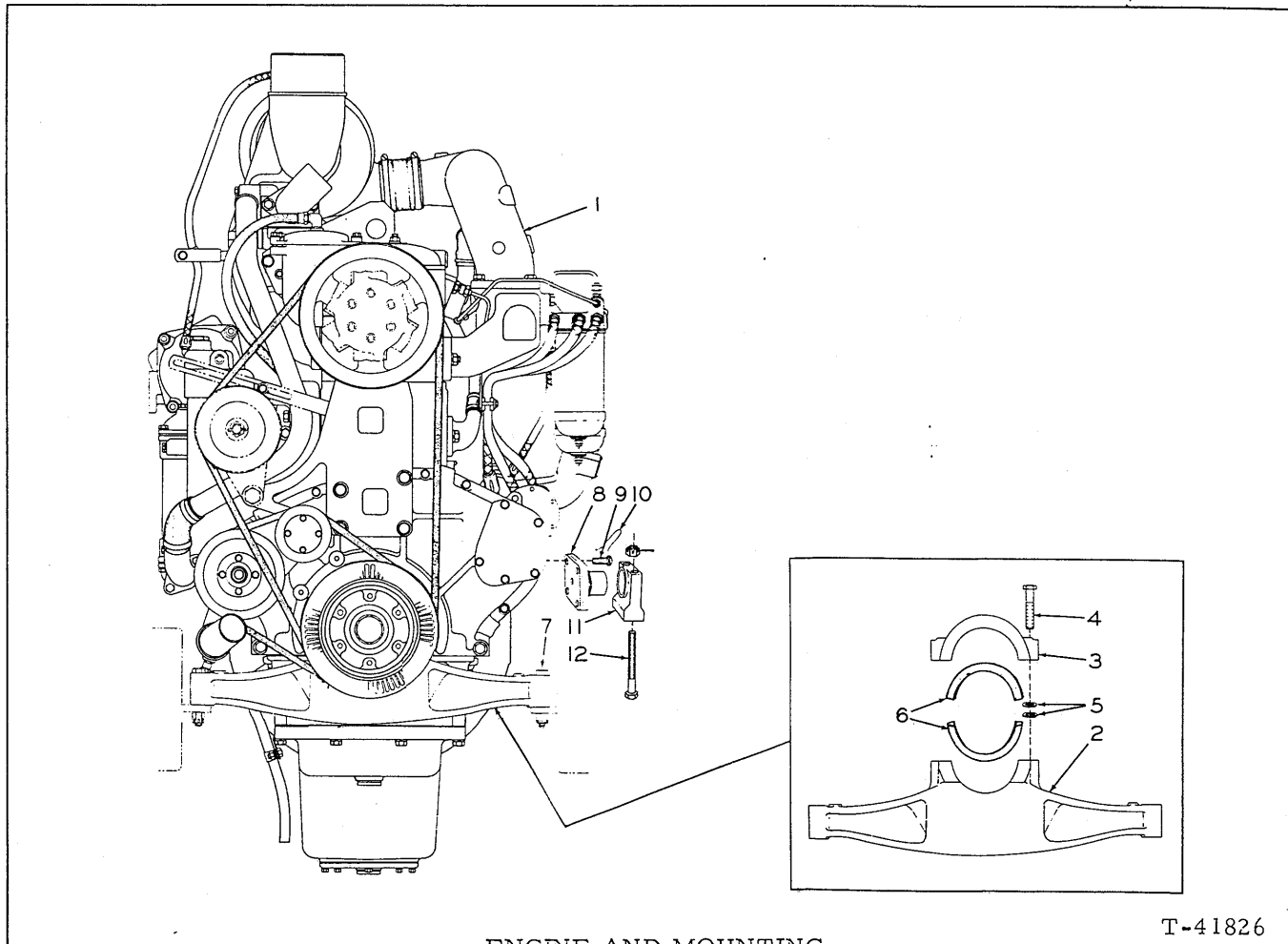
PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
7434971(Cont'd)	OIL PUMP CONVERSION KIT (Includes "ACULOP" pump, piping, and oil pan for engines prior to S/N 21-11796)
32	70922220 CAPSCREW, 12 pt.hd., 1/2"NC x 1-1/2"
1	70922420 PLUG, pipe, ctsk., sq. hd., 1-1/2"NPT
6	70923193 CAPSCREW, 3/8"NF x 1-1/4"
2	70924228 CAPSCREW, 3/8"NF x 1-1/2"
1	70924636 PLUG, brass, hex. hd., 1/2"NPT
2	70927044 O-RING
2	70927583 CAPSCREW, 7/16"NC x 1-3/4"
2	70928212 NUT, 7/16"NC
1	74320597 VALVE
1	74362338 PLUG
1	74393341 BRACKET
2	74393359 GASKET
1	74393362 ELBOW
1	74393364 TUBE
2	74393397 CAPSCREW
1	74393599 BRACKET
2	74393600 U-BOLT
2	74393601 SADDLE
1	74393973 OIL LEVEL GAUGE
1	74394200 ADAPTER
1	74394957 TUBE
4	74395024 DOWEL
1	74395053 BLOCK
1	74395060 TUBE
1	74395061 TUBE
1	74395062 BRACKET
1	74396124 OIL PAN (Iron)
1	74395803 GASKET SET
1	74396041 OIL PUMP



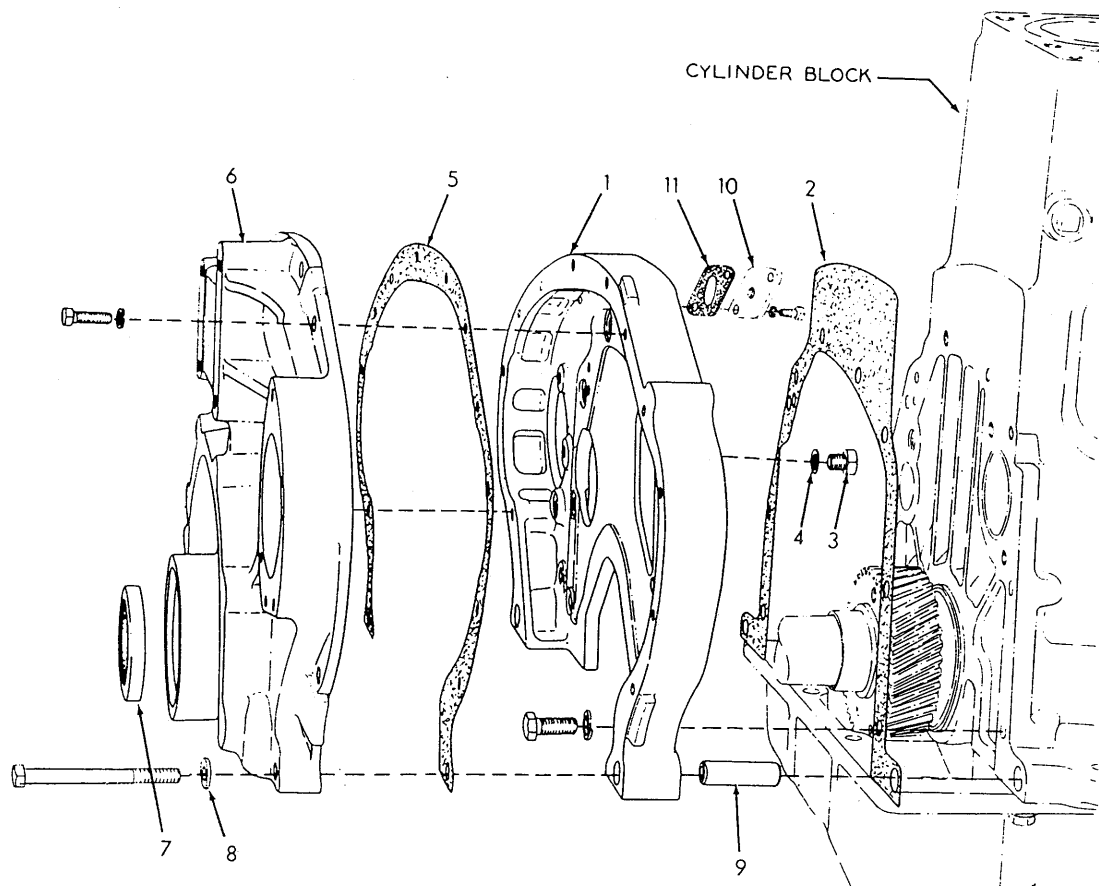
21-B CRAWLER TRACTOR (w/21HS Dozer and 21R Ripper)

T-79177



ITEM	PART NO.	QTY.	DESCRIPTION
1	74390467	1	ENGINE ASSY. (Includes oil filters, oil coolers, fuel filter and turbocharger but does not include air cleaner, fan, alternator, starter or muffler)
2	70655452	1	HANGER, engine supporting, front end (Includes item 3)
3	-----	1	CAP, engine hanger (Not serviced separately)
4	70669299	2	SCREW, Nylok, flanged, hex-hd., 1/2"NC x 3"
5	70916009	14	WASHER, shimming (1/32" thick. Use as required)
6	74336491	2	LINER, engine supporting hanger
7	70670451	2	CAPSCREW, engine hanger (drilled-end, 5/8"NF x 4-1/4")
	70926193	2	WASHER, plain, 5/8"
	70913280	2	NUT, high, slotted, 5/8"NF
	70900806	2	PIN, cotter, 1/8" x 1"
8	70682555	2	TRUNNION, rear mounting (For first replacement prior to unit #19368 use with 70682549 BRACKET)
9	70929086	8	CAPSCREW, drilled-hd., 5/8"NC x 1-1/4"
10	70023633	4	WIRE, locking, 1/16" x 12"
11	70682549	2	BRACKET, engine supporting, rear
12	70682224	4	CAPSCREW, drilled-end, 3/4"NF x 6-3/4" (For first replacement also order same quantity of NUT 70673037)
	70673037	4	NUT, slotted, 3/4"NF
	70900808	4	PIN, cotter, 1/8" x 1-1/2"

(Revised May 1976)

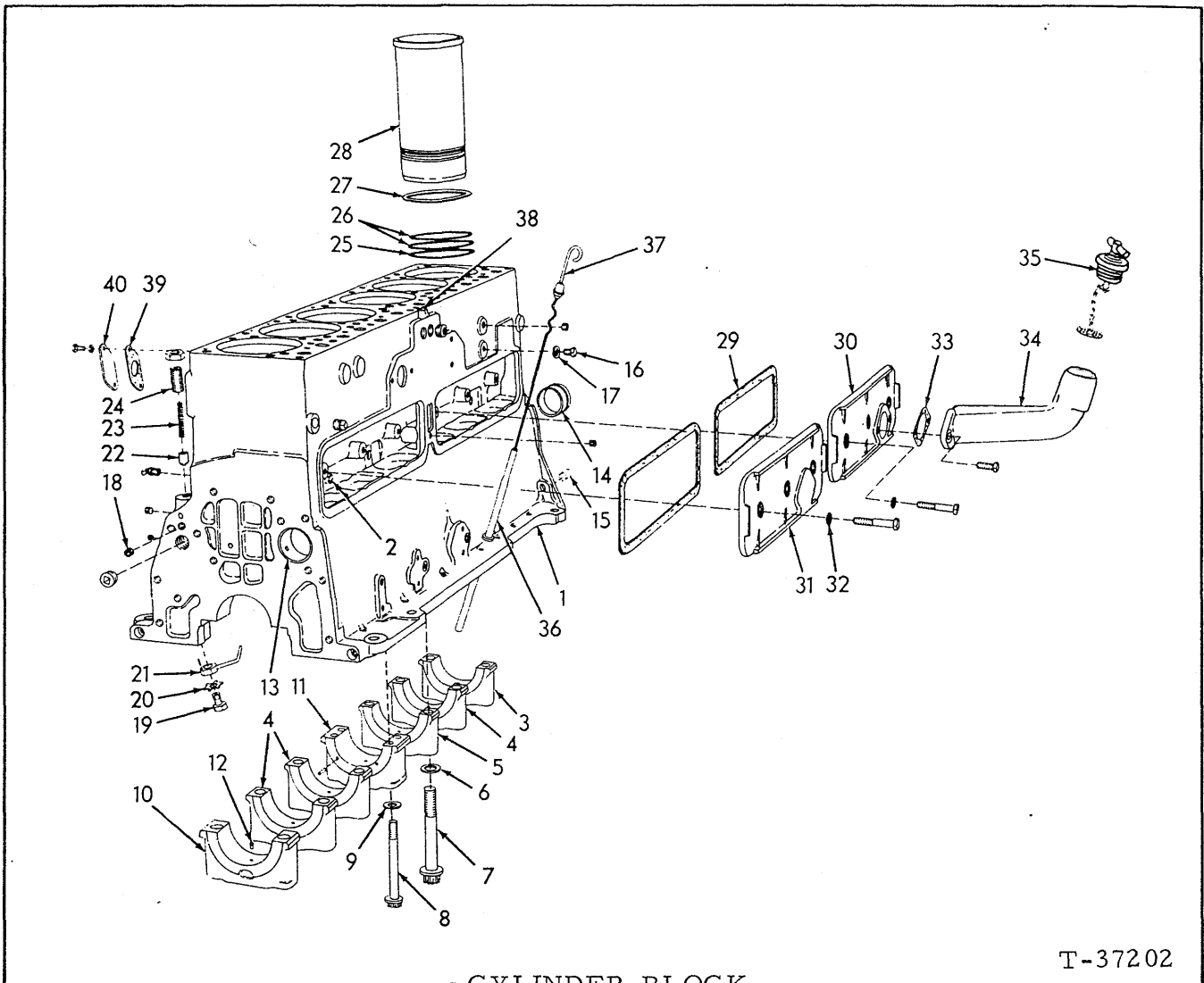


TIMING GEAR HOUSING

T-13103

ITEM	PART NO.	QTY.	DESCRIPTION
1	74393560	1	HOUSING
	70916311	8	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	8	LOCKWASHER, 1/2"
2	74660492	1	□GASKET, gear housing
3	70919229	1	CAPSCREW, plugging (1/2"NC x 1/2")
4	74119937	1	GASKET, plugging capscrew
5	74376609	1	GASKET, gear housing cover
6	74391911	1	COVER, timing gear housing (Engines prior to #21-11975)
	74395852	1	COVER, timing gear housing (Engines #21-11975 and up)
	70916321	2	CAPSCREW, 1/2"NC x 4-1/2"
	70919224	7	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	7	LOCKWASHER, 3/8"
7	74036340	1	SEAL, oil, crankshaft
8	74371445	2	WASHER, plain, housing cover capscrew
9	74371444	2	DOWEL, hollow, gear housing
10	74390837	1	COVER, gear housing
	70915408	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
11	74371027	1	□GASKET, gear housing cover

(Revised August 1979)



CYLINDER BLOCK

T-37202

ITEM	PART NO.	QTY.	DESCRIPTION
1	74396091	1	BLOCK ASSY., cylinder (Includes items 2 thru 5, 7, 8, 10 thru 21, 39, 40, and hardware indented below) (If for first replacement for engines prior to #21-11500 also order 1 CAMSHAFT 74393399)
	70919840	3	PLUG, pipe, hex-hd., 1/4"NPT
	70918887	1	PLUG, pipe, hex-socket, 3/8"NPT
	70919134	1	PLUG, pipe, hex-hd., 1/8"NPT
	70918850	4	PLUG, pipe, hex-socket, 1/4"NPT
	70917970	2	PLUG, pipe, hex-socket, 1/2"NPT
	70918851	2	PLUG, pipe, hex-socket, 3/4"NPT
	74255363	1	COCK, drain, 1/4"NPT
2	-----	4	DOWEL, valve lifter bracket (See page 31)
3	74395099	1	*CAP, main bearing, rear

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

(Continued)

(Revised August 1979)

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CYLINDER BLOCK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
4	74395103	3	*CAP, main bearing, intermediate
5	74395105	1	*CAP, main bearing, intermediate (No. 5)
6	74389911	12	WASHER, plain, main bearing capscrow (Engines prior to #21-11796)
7	74389924	12	CAPSCREW, main bearing cap (7/8"diam.)(Engines prior to #21-11796)
	74393397	12	CAPSCREW, main bearing cap (7/8" diam.)(Engines #21-11796 and up)
8	74389923	4	CAPSCREW, center main bearing cap (5/8" diam.) (Engines prior to #21-11796)
	74391307	4	CAPSCREW, center main bearing cap (5/8" diam.) (Engines #21-11796 and up)
9	74391160	4	WASHER, center main bearing capscrcrow (Engines prior to #21-11796)
10	74395101	1	*CAP, main bearing, front
11	74395108	1	*CAP, main bearing, center
	-----	4	PIN, dowel, thrust flange (See page 20)
12	74389292	7	PIN (For .250" bearing cap hole and .250" bearing oil hole)(Engines prior to #21-14477)
	74395109	7	PIN (Adaptor for .250" bearing cap hole and .375" bearing oil hole)
	70919777	7	PIN (For .375" bearing cap hole and .375" bearing oil hole)(Engine #21-14477 and up)
13	74665306	1	BEARING, camshaft, front
	74660440	2	BEARING, camshaft, intermediate (Engines prior to #21-11500)
	74393373	2	BEARING, camshaft, intermediate (Engines #21-11500 and up)
14	74665306	1	BEARING, camshft, rear
15	-----	2	PIN, dowel, flywheel housing (See page 24)
16	70919229	3	CAPSCREW, hole plugging (1/2"NC x 1/2")
17	74119937	3	□GASKET, plugging capscrow
18	74389943	1	RESTRICTOR, oil by-pass (Engines prior to #21-14477)
19	74386262	6	SCREW, jet retaining
20	74255186	6	LOCKWASHER, jet retaining screw
21	74390766	3	JET ASSY., R.H. (Includes Dowel Pin indented below)
	74390767	3	JET ASSY., L.H. (Includes Dowel Pin indented below)
	70917558	6	PIN, dowel, 1/8" x 1/2"
22	74500230	1	PISTON, oil pressure regulating valve
23	74660358	1	SPRING, oil pressure regulating valve
24	74389058	1	SCREW, oil pressure regulating valve
	70910847	1	NUT, jam, 3/4"NF
25	74385485	6	O-RING, cylinder sleeve, lower groove (red)
26	74393426	12	O-RING, cylinder sleeve, upper grooves (black)
27	74368204	-	SHIM, cylinder sleeve (.005" thick)
	74368205	-	SHIM, cylinder sleeve (.010" thick)
	74368206	-	SHIM, cylinder sleeve (.015" thick)
	74369002	-	SHIM, cylinder sleeve (.020" thick)
28	74061528	6	SLEEVE, cylinder (Includes items 25 and 26)

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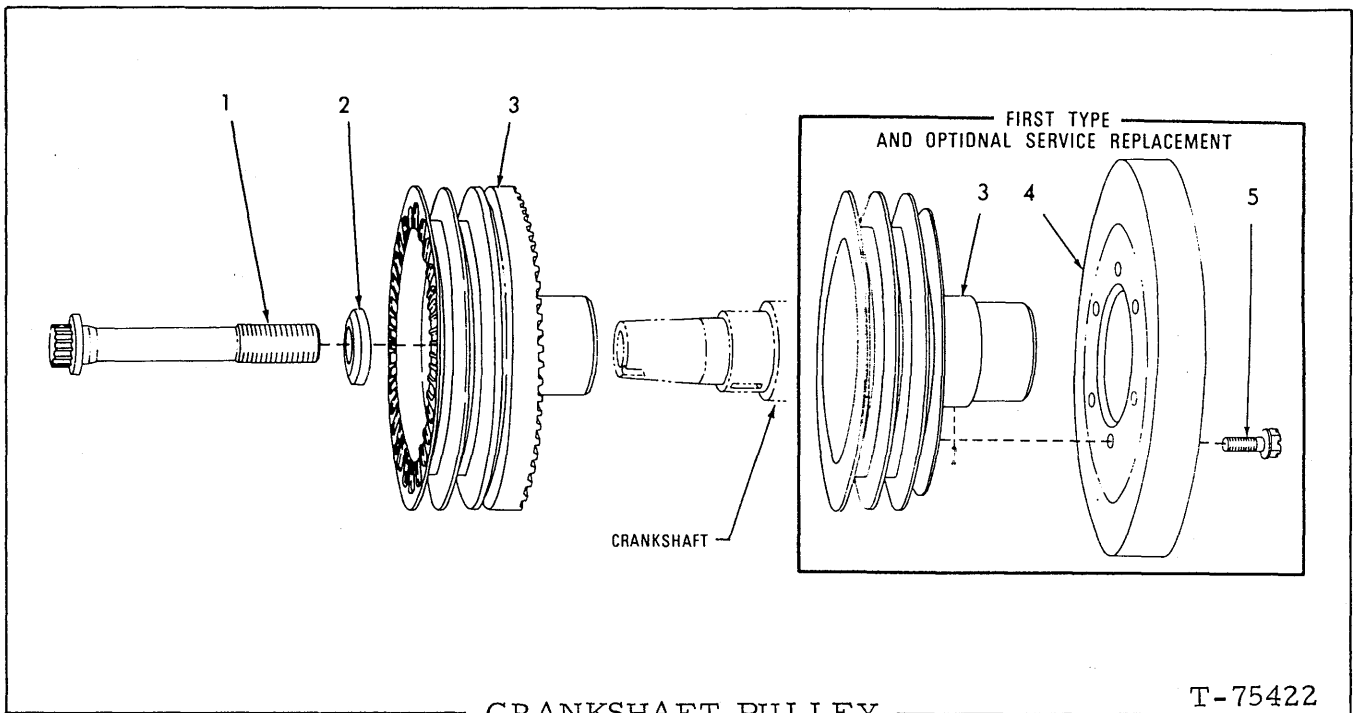
(Revised August 1979)

CYLINDER BLOCK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
29	74377120	2	□GASKET, push rod cover
30	74393854	1	COVER, push rod, rear
	70916316	3	CAPSCREW, 1/2"NC x 2-1/2"
31	74393853	1	COVER, push rod, front
	70916316	2	CAPSCREW, 1/2"NC x 2-1/2"
	70916317	1	CAPSCREW, 1/2"NC x 2-3/4"
32	74376749	7	□WASHER, push rod cover capscrow
33	74310257	1	□GASKET, oil filler pipe
34	74394952	1	ELBOW, oil filler
	74379198	2	CAPSCREW, Nylok, 1/2"NC x 1-3/8"
35	74354492	1	CLOSURE ASSY., oil filler (Serviced only as a unit)
36	74391378	1	ADAPTER, oil level gauge (Engines prior to #21-11796)
	74393975	1	ADAPTER, oil level gauge (Engine #21-11796 and up)
37	74391366	1	GAUGE, oil level (Engines prior to #21-11796)
	74393973	1	GAUGE, oil level (Engines #21-11796 and up)
38	70923799	1	SETSCREW
39	74025101	2	GASKET
40	74024141	2	PLATE
	70916253	2	CAPSCREW, 7/16"NC x 3/4"
	70914678	2	LOCKWASHER, 7/16"

} Engines
#21-14477
and up

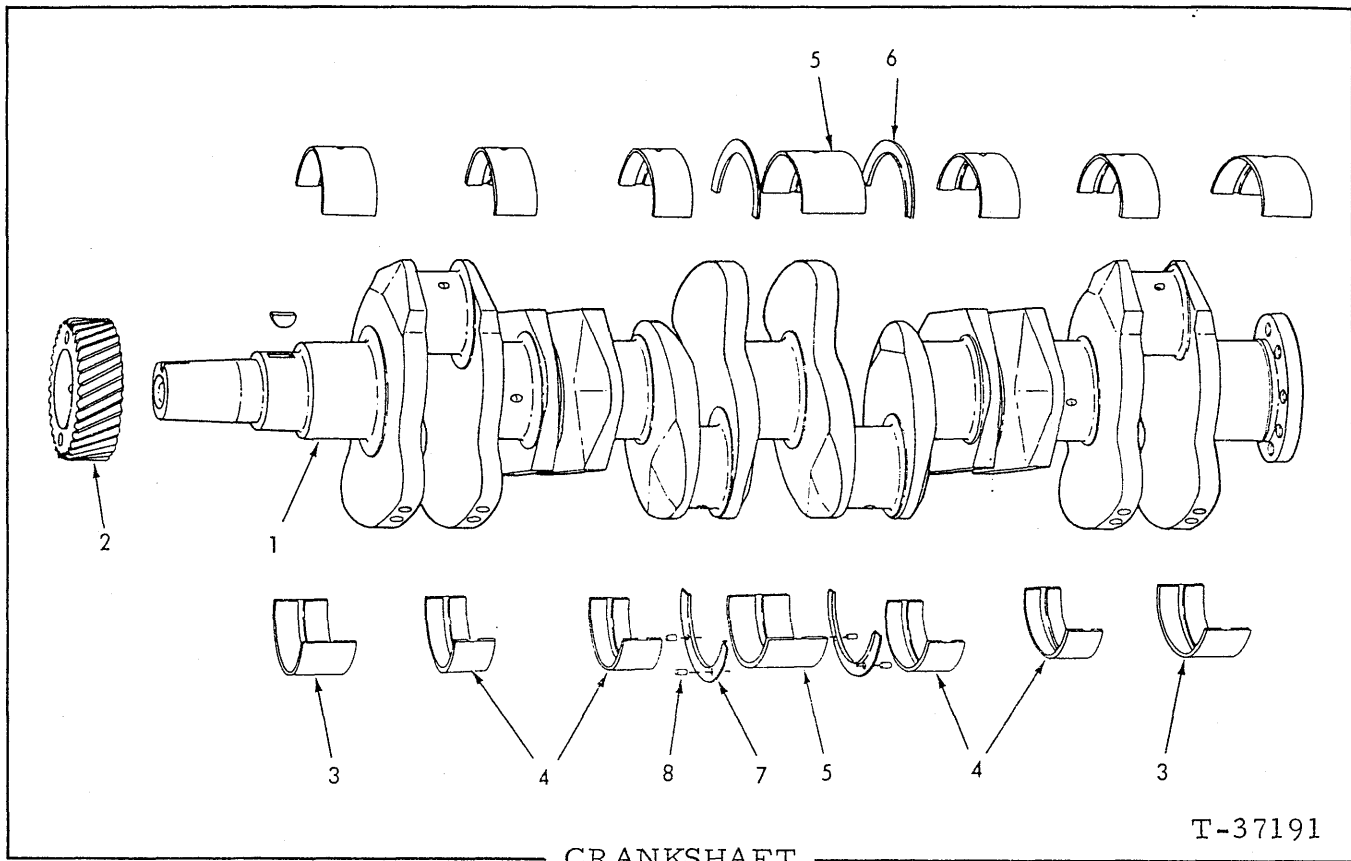
(Revised April 1977)



CRANKSHAFT PULLEY

T-75422

ITEM	PART NO.	QTY.	DESCRIPTION
1	74393443	1	SCREW, pulley retaining (If for first replacement on engines prior to #21-11367 also order item 2)
2	74393436	1	WASHER, pulley bolt
3	74391578	1	PULLEY ASSY., crankshaft (Includes locating pin) (Engines prior to #21-12175)
	74394264	1	PULLEY, crankshaft (Includes integral damper) (Original equipment on engines #21-12175 and up)
	74395631	1	PULLEY ASSY. crankshaft (Includes PIN indented below) (Optional service replacement for PULLEY with integral damper)
	70921839	1	PIN, spring, 5/16" x 1-3/8"
4	74395767	1	DAMPER, crankshaft
5	74391022	6	BOLT, self-locking
			} Engines prior to #21-12175; also used with optional PULLEY ASSY. 74395631



ITEM	PART NO.	QTY.	DESCRIPTION
1	74396002	1	CRANKSHAFT (For first replacement on engines prior to #21-14546 also order item 2 and 1 KEY 70905127)
2	74395185	1	GEAR, crankshaft
	70905129	1	KEY, #D woodruff, 5/16" x 1-1/4" (Engines prior to #21-14546 with keyway)
	70905127	1	KEY, #B woodruff, 5/16" x 1" (Engine #21-14546 and with milled slot)
3	74395114	4	BEARING, front and rear main (standard size)
	74395117	4	BEARING, front and rear main (.010" undersize)
	74395118	4	BEARING, front and rear main (.020" undersize)
	74395119	4	BEARING, front and rear main (.030" undersize)
	74395120	4	BEARING, front and rear main (.040" undersize)
4	74395115	8	BEARING, intermediate main (standard size)
	74395121	8	BEARING, intermediate main (.010" undersize)
	74395122	8	BEARING, intermediate main (.020" undersize)
	74395123	8	BEARING, intermediate main (.030" undersize)
	74395124	8	BEARING, intermediate main (.040" undersize)

3/8" oil hole (For first replacement prior to engine #21-14477 also order 1 PIN 74395109 per bearing cap)

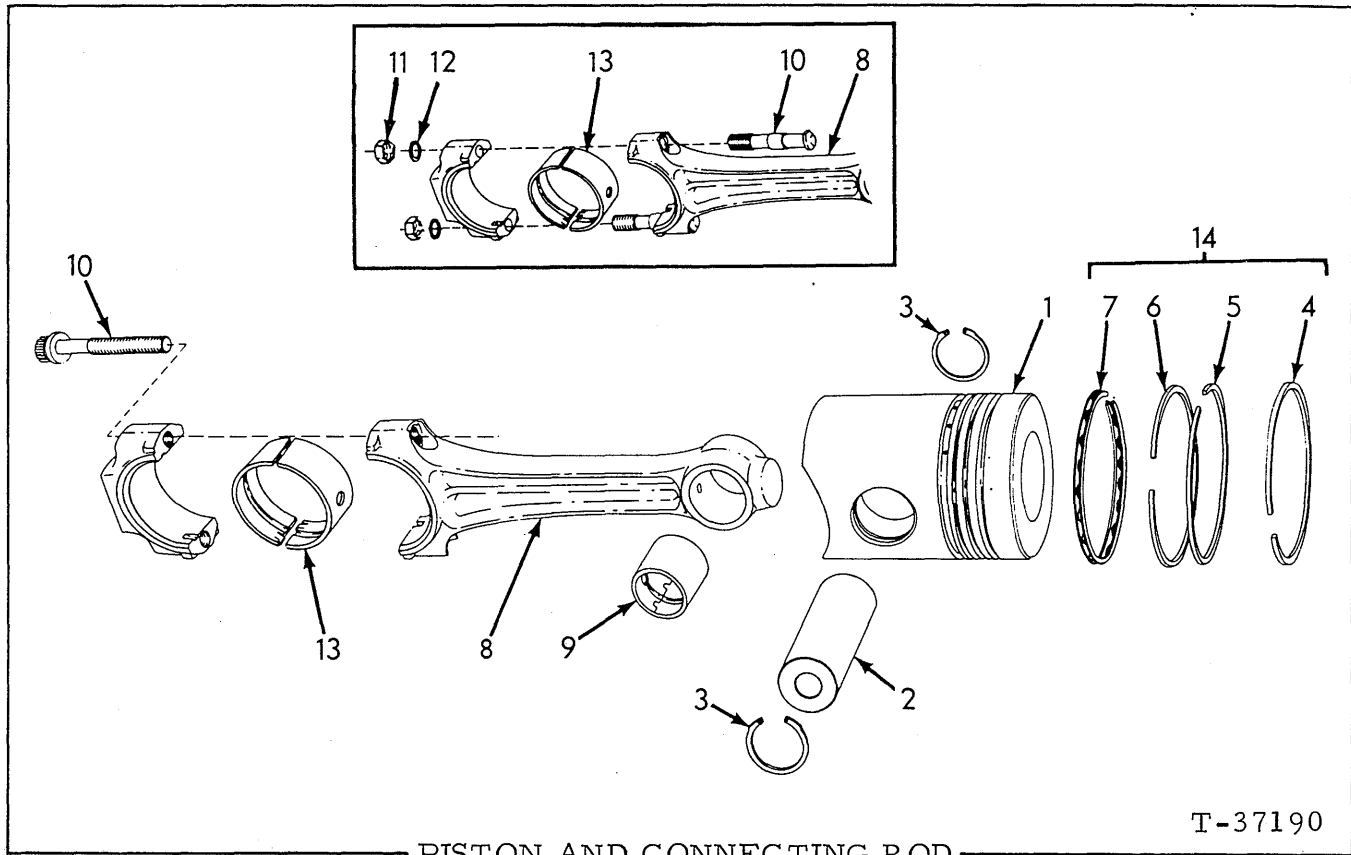
(Continued)

(Revised February 1978)

ITEM	PART NO.	QTY.	DESCRIPTION	
5	74395116	2	BEARING, center main (standard size)	} 3/8" oil hole (For first replacement prior to engine #21-14477 also order 1 PIN 74395109 per bearing cap)
	74395125	2	BEARING, center main (.010" undersize)	
	74395126	2	BEARING, center main (.020" undersize)	
	74395127	2	BEARING, center main (.030" undersize)	
	74395128	2	BEARING, center main (.040" undersize)	
6	74386360	2	FLANGE, thrust, center main, upper (standard size)	
	74386456	2	FLANGE, thrust, center main, upper (.005" oversize)	
	74386457	2	FLANGE, thrust, center main, upper (.010" oversize)	
	74386458	2	FLANGE, thrust, center main, upper (.015" oversize)	
7	74386359	2	FLANGE, thrust, center main, lower (standard size)	
	74386453	2	FLANGE, thrust, center main, lower (.005" oversize)	
	74386454	2	FLANGE, thrust, center main, lower (.010" oversize)	
	74386455	2	FLANGE, thrust, center main, lower (.015" oversize)	
8	70919347	4	PIN, spring	
9	74061771	1	KIT, bearing (standard size)	} 3/8" oil hole (For first replacement prior to engine #21-14477 also order 7 PIN 74395109)
	74061772	1	KIT, bearing (.010" undersize)	
	74061773	1	KIT, bearing (.020" undersize)	
	74061774	1	KIT, bearing (.030" undersize)	
	74061775	1	KIT, bearing (.040" undersize)	
10	74061489	1	KIT, flange (standard size)	
	74061490	1	KIT, flange (.005" undersize)	
	74061491	1	KIT, flange (.010" undersize)	
	74061492	1	KIT, flange (.015" undersize)	

NOTE: Each BEARING KIT listed above consists of BEARINGS for complete crankshaft overhaul

NOTE: Each FLANGE KIT listed above consists of upper and lower flanges and 4 PIN 70919347.



PISTON AND CONNECTING ROD

T-37190

* First type with 2" piston pins (Engines prior to No. 21-13092)

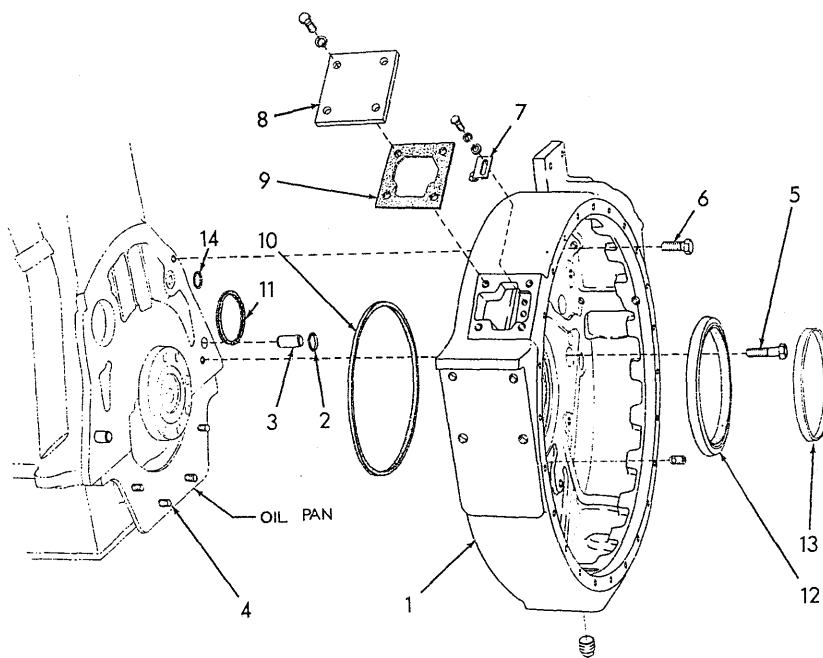
** Second type with 2-1/4" piston pin (Engine No. 21-13092 and up)

ITEM	PART NO.	QTY.	* **	DESCRIPTION	
1	74062037	6	-	PISTON ASSY. (Includes items 2, 3 and 14)	Do not intermix first and second type piston. Substitute second type pistons, pin and connecting rods for first type in sets only.
	74396647	-	6	□ PISTON ASSY. (Includes items 2, 3, 14) (Replace in sets)	
2	74390175	6	-	PIN	
	74394212	-	6	PIN	
3	74253749	12	-	RETAINER	
	74255943	-	12	RETAINER	
4	-----	6	6	RING (top groove)	Order item 14
5	-----	6	6	RING (2nd groove)	
6	-----	6	6	RING (3rd groove)	
7	-----	6	6	RING (4th groove)	
8	74394058	6	-	ROD ASSY. (Includes items 9 and 10)	
	74396085	-	6	ROD ASSY. (Includes items 9 and 10)	
9	74376986	6	-	BUSHING, connecting rod	
	74396367	-	6	BUSHING KIT, (Includes instruction sheets)	
10	74388142	12	-	BOLT (Used prior to engine #21-11714)	
	74394747	12	12	CAPSCREW (Effective engine #21-11714) (Replace in pairs prior to engine #21-14233)	

(Continued)

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PISTON AND CONNECTING ROD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
11	74390011	12 -	NUT
12	74388146	12 -	WASHER
13	74394172	12 12	BEARING, connecting rod (standard size)
	74394221	12 12	BEARING, connecting rod (.010" undersize)
	74394222	12 12	BEARING, connecting rod (.020" undersize)
	74394223	12 12	BEARING, connecting rod (.030" undersize)
	74394224	12 12	BEARING, connecting rod (.040" undersize)
14	74061967	6 6	RING SET (For ONE piston only)(Includes items 4 thru 7)

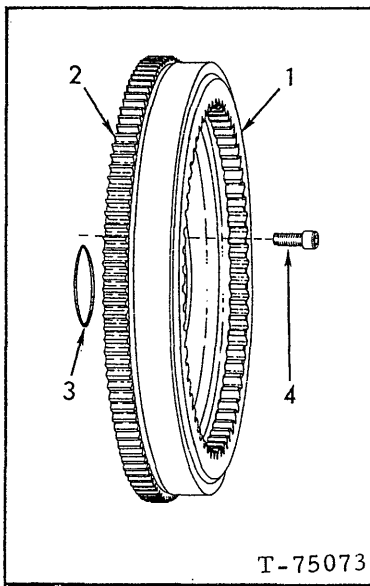


FLYWHEEL HOUSING

T-41788

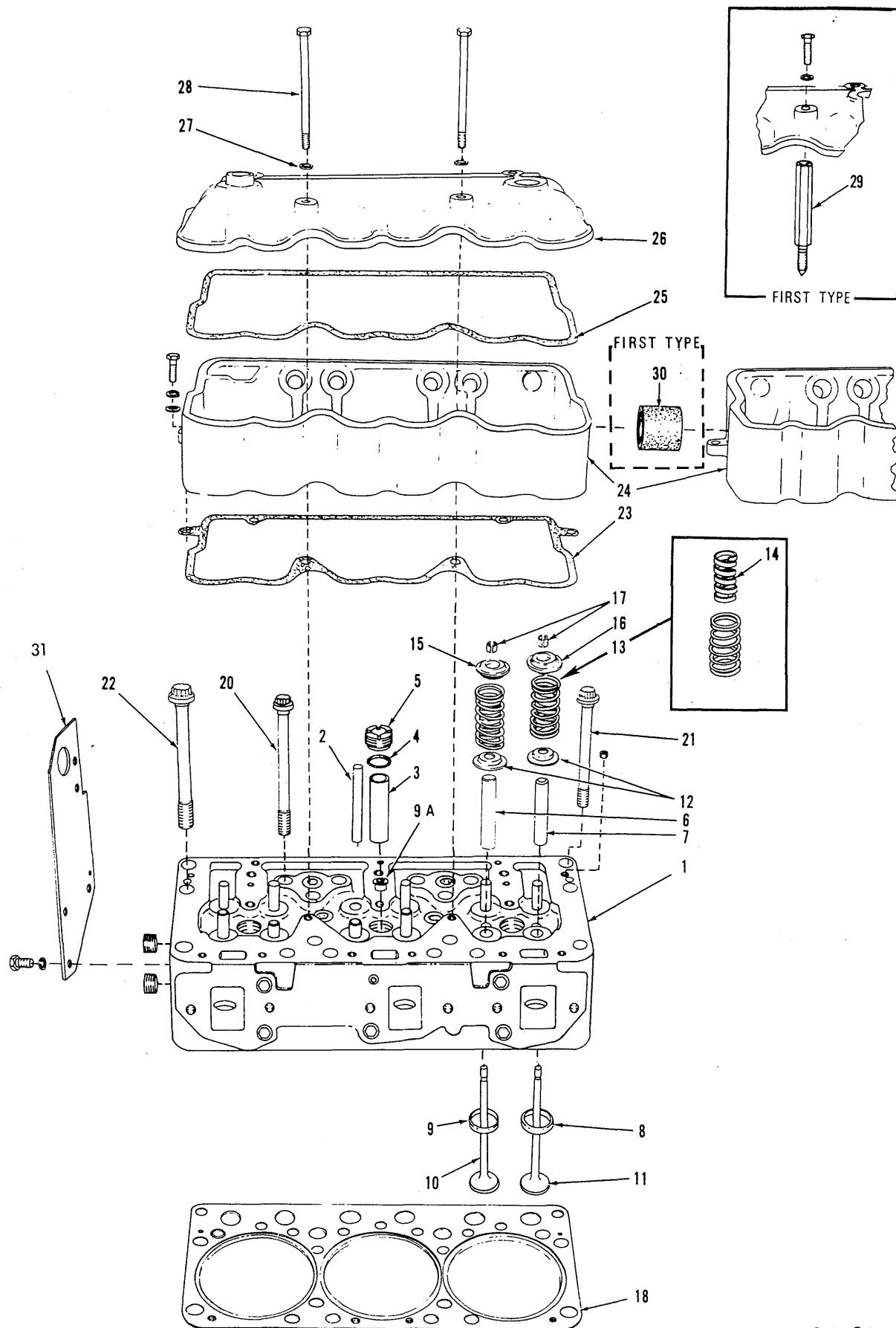
ITEM	PART NO.	QTY.	DESCRIPTION
1	74395433	1	HOUSING, flywheel
	70922884	1	SETSCREW, hex-socket, cup-pt., Nylok, 7/16"NC x 1/2"
	70920132	1	PLUG, pipe, 1/2"NPT
2	70923810	2	O-RING, housing dowel
3	74373716	2	DOWEL, housing to crankcase
4	-----	4	CAPSCREW (See OIL PAN)
5	70921556	2	BOLT, housing to crankcase (1/2"NC x 2")
6	70920574	8	BOLT, housing to crankcase (1/2"NC x 1-3/8")
7	74386651	1	POINTER, timing
	70916284	2	CAPSCREW, 1/4"NC x 1/2"
	70904204	2	LOCKWASHER, 1/4"
	70911114	2	WASHER, plain, SAE std., 1/4"
8	74395049	1	COVER, timing hole
	70915813	4	CAPSCREW, 5/16"NC x 7/8"
	70904205	4	LOCKWASHER, 5/16"
9	74390432	1	GASKET, timing hole cover
10	74336897	1	RING, sealing, housing to crankcase
11	74255904	1	RING, sealing, housing to crankcase (camshaft hole)
12	74395770	1	SEAL, oil, crankshaft flange (If for engines prior to #21-12400 also order 1 SLEEVE 74394036)
13	74394036	1	SLEEVE, wear (Engines #21-12400 and up)
14	74255898	1	RING, sealing, housing to crankcase (oil gallery hole)

(Revised February 1978)



ITEM	PART NO.	QTY.	DESCRIPTION
1	74391231	1	FLYWHEEL ASSEMBLY (Includes item 2)
2	74303694	1	GEAR, ring
3	74255912	1	O-RING, flywheel to crankshaft
4	74391666	8	CAPSCREW, flywheel

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



CYLINDER HEAD

T-37183

(Revised February 1978)

CYLINDER HEAD

ITEM	PART NO.	QTY.	DESCRIPTION
1	74394445	2	HEAD ASSY., cylinder (Includes items 2 thru 9 and plugs indented below)(For engines prior to #21-11661 also order 12 of item 15 per head)(For first replacement on engines #21-10855 thru 21-12471 also order 3 of item 9A per head)
	74255490	8	PLUG, pipe, hex-socket, 1/8"NPT
	74255491	2	PLUG, pipe, hex-socket, 1/4"NPT
	74255577	26	PLUG, pipe, hex-socket, 3/4"NPT
2	74386413	12	PIN, guide, valve bridge
3	74392051	6	SLEEVE, injection nozzle
4	70926672	6	O-RING, injection nozzle sleeve
5	74392052	6	NUT, injection nozzle sleeve
6	74390547	12	GUIDE, intake valve
7	74390548	12	GUIDE, exhaust valve
8	{ 74392053	12	INSERT, exhaust valve seat (standard size)
	{ 74392068	12	INSERT, exhaust valve seat (.005" oversize)
9	{ 74386628	12	INSERT, intake valve seat (standard size)
	{ 74386653	12	INSERT, intake valve seat (.005" oversize)
9A	74392576	6	INSERT, injection nozzle (Effective with engine #21-10855 thru #21-12471)
10	74386790	12	VALVE, intake
11	74392054	12	VALVE, exhaust
12	74389685	24	SEAT, valve spring
13	74389294	24	SPRING ASSY., valve (Includes item 14)
14	74389293	24	DAMPER, valve spring
15	74389397	24	ROTOCOIL ASSY., valve (Serviced only as a unit)
16	-----	-	RETAINER, exhaust valve spring (Order item 15)
17	74376497	48	LOCK, valve stem
18	74396409	2	□ GASKET ASSY., cylinder head
20	74391306	26	SCREW, cylinder head (5/8"NC x 7")
21	74391307	2	SCREW, cylinder head (5/8"NC x 6")
22	74393443	8	SCREW, cylinder head (3/4"NC x 7-1/4")

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(Revised August 1979)

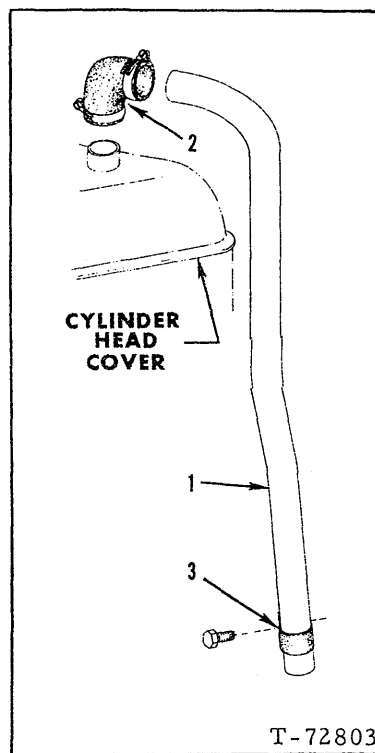
CYLINDER HEAD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
23	74393989	2	☐ GASKET, lower cover
24	74393625	1	COVER, lower section, front (If for engines prior to #21-10117 also order 1 PLUG 70921507 for rear cover and discard item 30)
	74393628	1	COVER, lower section, rear (If for engines prior to #21-10117 also order 1 PLUG 70921507 for front cover and discard item 30)
	74394928	2	COVER, lower section (Engines #21-13753 and up
	70916272	4	CAPSCREW, 3/8" NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
	70913544	4	WASHER
25	74389961	2	☐ GASKET, rocker cover
26	74387726	1	COVER, rocker, rear
	70914847	1	CAPSCREW, 3/8" NC x 1-1/2" (Engines prior to #21-13456)
	70921405	1	CAPSCREW, 3/8" NC x 6" (Engine #21-13456 and up)
	74386901	1	COVER, rocker front
27	74254873	8	☐ WASHER, sealing, rocker cover capscREW
28	70921405	7	CAPSCREW, rocker cover
29	-----	1	BOLT, extension, rear lower cover (Engines prior to #21-13456) (Order item 28)
30	74386941	1	COUPLING, breather, cylinder head cover (Used prior to engine #21-10117)
31	74395903	1	BRACKET, lifting (front)
	70916311	1	CAPSCREW, 1/2" NC x 1-1/4"
	70904208	3	LOCKWASHER, 1/2"

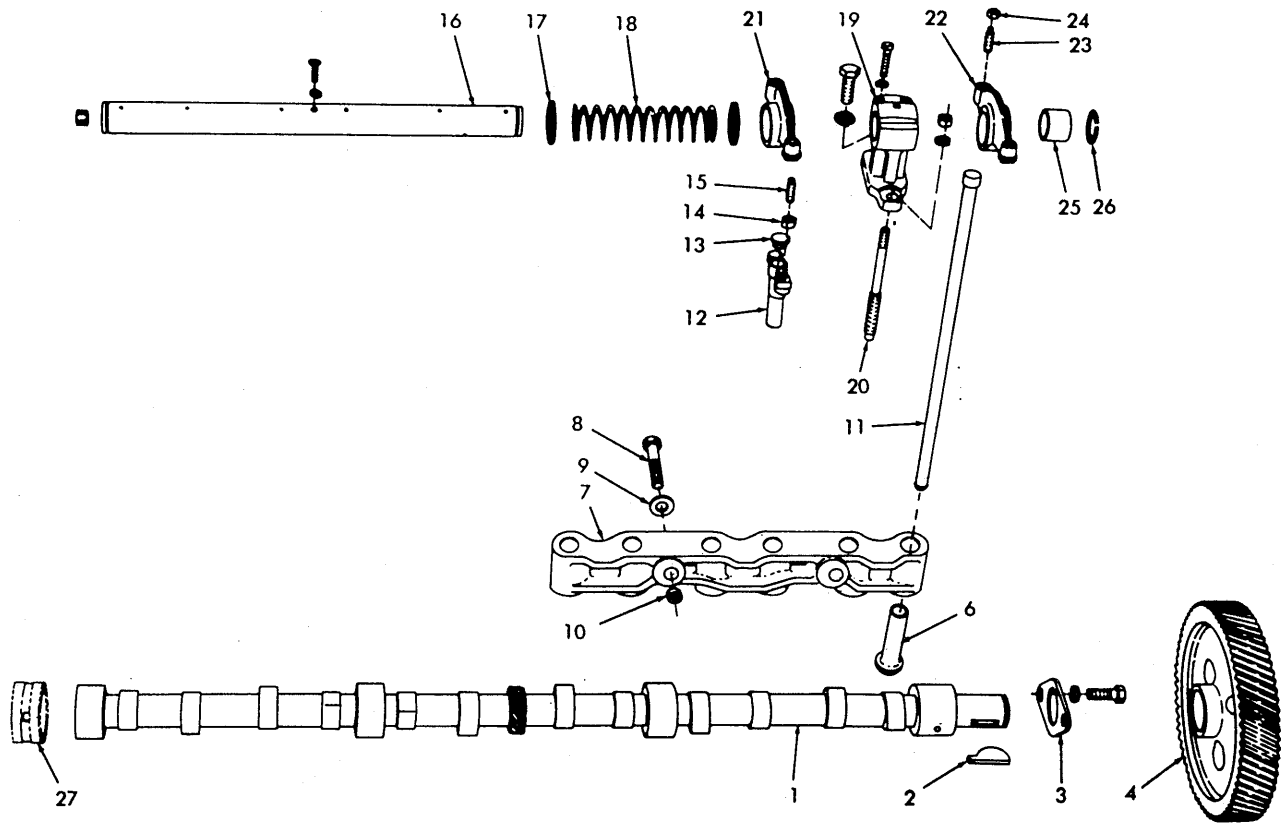
Engines
prior to
#21-13753

Engine #21-13958
and up

ENGINE BREATHER



ITEM	PART NO.	QTY.	DESCRIPTION
1	74390435	1	TUBE, breather
2	74255351	1	ELBOW, rubber
	70922198	2	CLAMP, hose, 1-9/16" to 2-9/16" diam.
3	74255361	1	CLIP, tube supporting
	70921865	1	CAPSCREW, Nylok, 1/2"NC x 1"

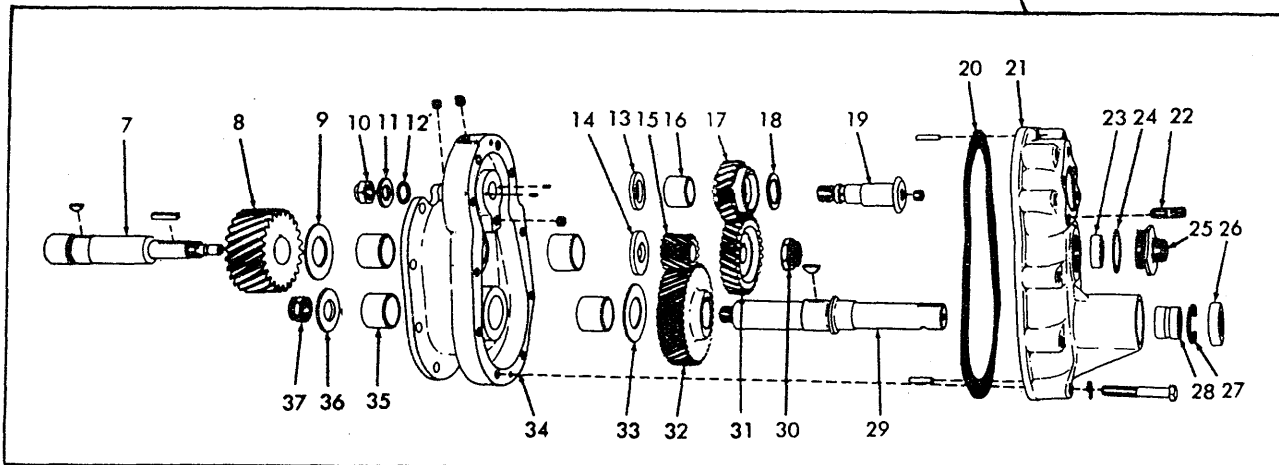
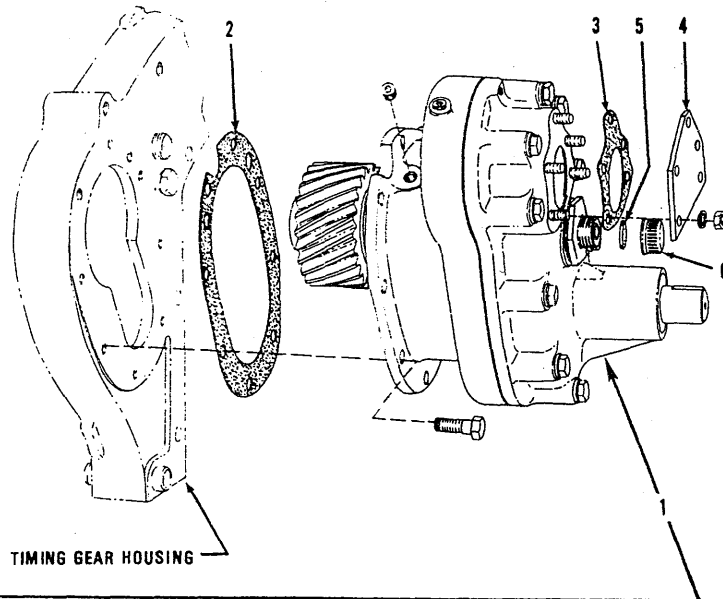
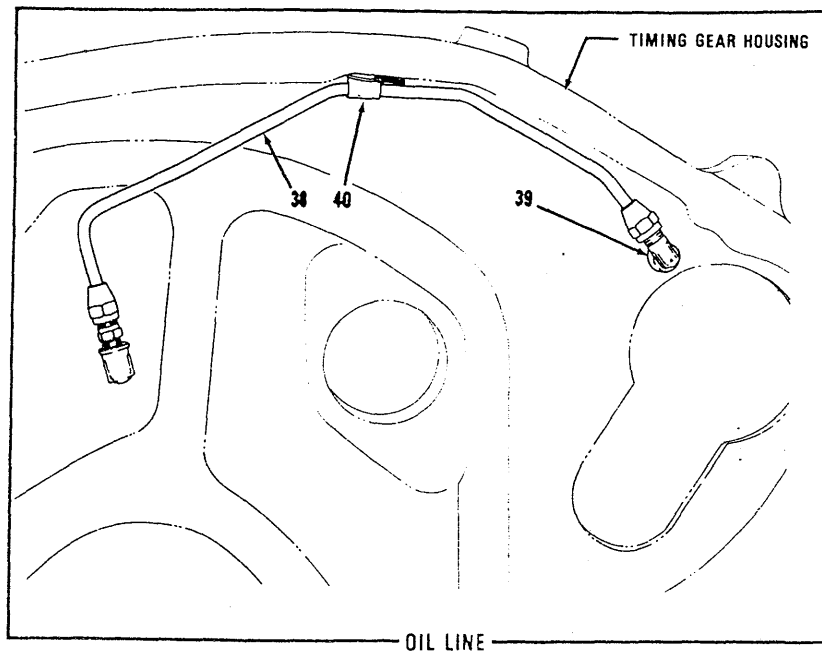


VALVE OPERATING MECHANISM

T-37184

VALVE OPERATING MECHANISM

ITEM	PART NO.	QTY.	DESCRIPTION
1	{ 74392182	1	CAMSHAFT (Engines prior to #21-11500)
	{ 74393399	1	CAMSHAFT (Engines #21-11500 and up)
2	70923738	1	KEY, camshaft gear
3	74386776	1	PLATE, thrust
	70916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
4	74392183	1	GEAR, camshaft
6	74391845	12	LIFTER, valve
7	{ 74391869	1	BRACKET, valve lifter, front
	{ 74391870	1	BRACKET, valve lifter, rear
8	70915969	4	CAPSCREW, 1/2"NC x 3"
9	74376277	4	WASHER, valve lifter bracket capscrow
10	74303038	4	DOWEL, valve lifter bracket
11	74391849	12	ROD, push
12	74390270	12	BRIDGE ASSEMBLY, valve (Includes items 13 thru 15)
13	74376538	12	INSERT, valve bridge
14	74516821	12	NUT, valve bridge adjustment screw
15	74390254	12	SCREW, valve bridge adjustment
16	74390117	2	SHAFT ASSEMBLY, rocker arm (Includes PLUGS indented below)
	70918887	4	PLUG, pipe, hex-socket, 3/8"NPT
	70915406	2	CAPSCREW, 1/4"NC x 3/4"
	70904204	2	LOCKWASHER, 1/4"
17	74386406	8	RETAINER, rocker arm
18	74386405	4	SPRING, rocker shaft
19	74389317	6	BRACKET, rocker shaft
	70916311	6	CAPSCREW, 1/2"NC x 1-1/4" (attaching)
	70904208	6	LOCKWASHER, 1/2"
	70915807	12	CAPSCREW, 5/16"NC x 1-1/4" (clamping)
	70904205	12	LOCKWASHER, 5/16"
20	74377541	6	STUD, rocker shaft bracket (Also retains injection nozzle holder)
	70910325	6	NUT, 1/2"NC
	70904208	6	LOCKWASHER, 1/2"
21	{ 74390296	4	ARM ASSEMBLY, rocker, intake valve Nos. 1, 2, 4, 5
	{ 74390297	2	ARM ASSEMBLY, rocker, exhaust valve Nos. 3, 6
22	{ 74390294	4	ARM ASSEMBLY, rocker, exhaust valve Nos. 1, 2, 4, 5
	{ 74390295	2	ARM ASSEMBLY, rocker, intake valve Nos. 3, 6
<u>NOTE:</u> Each Arm Assembly listed above includes items 23 thru 25			
23	74336646	12	SCREW, valve lash adjustment
24	74516821	12	NUT, adjustment screw
25	74388428	12	BUSHING, rocker arm
26	74253190	4	RING, snap, rocker arm shaft
27	-----	-	BEARING, camshaft (See CYLINDER BLOCK)



ACCESSORY DRIVE

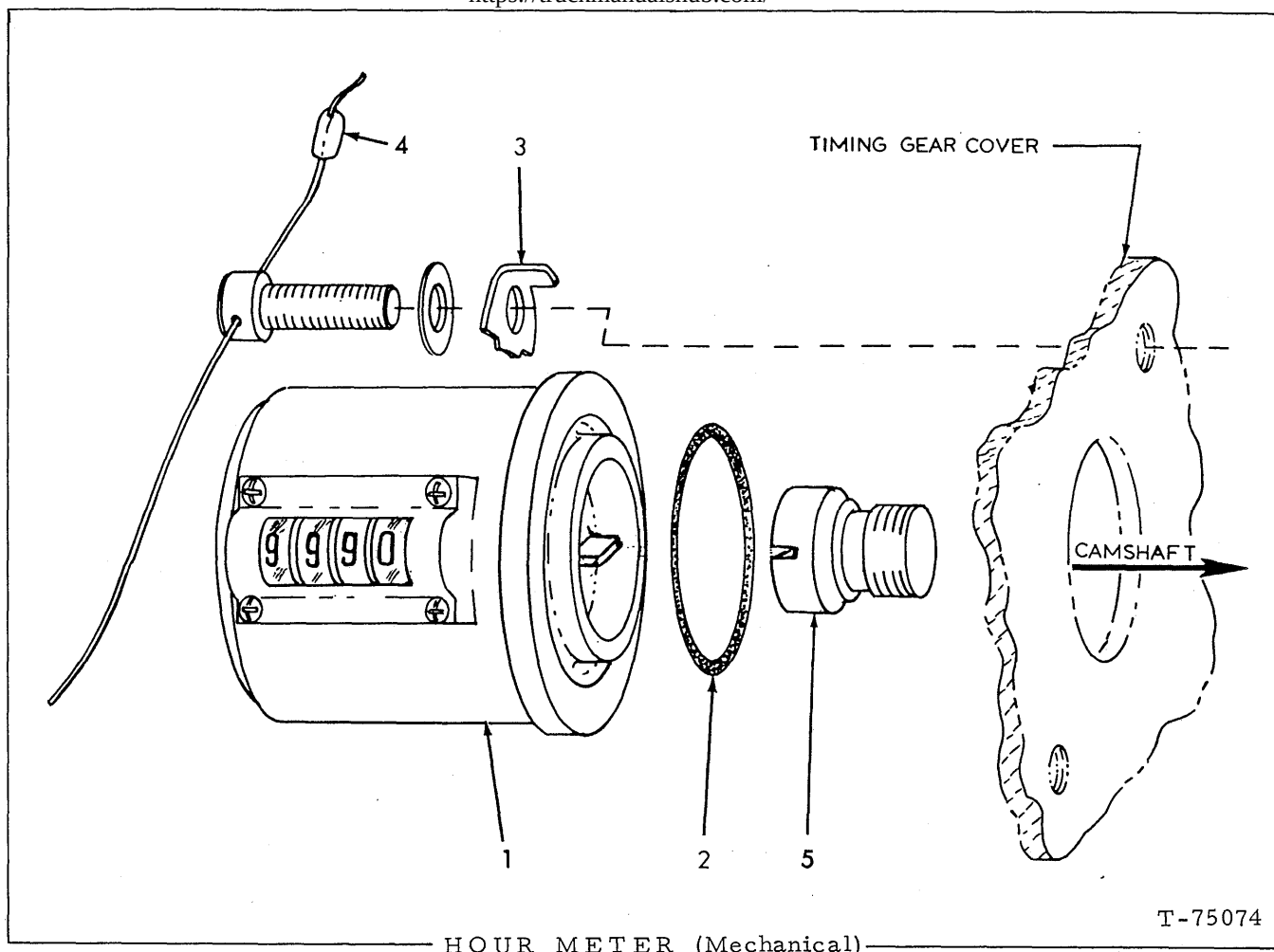
T-39416

ITEM	PART NO.	QTY.	DESCRIPTION
1	74391441	1	DRIVE ASSEMBLY (Consists of items 7 thru 37)
	70921520	8	CAPSCREW, Nylok, 3/8"NC x 7/8"
2	74376603	1	□GASKET, accessory drive to gear housing
3	74386826	1	GASKET, housing cover plate
4	74389593	1	PLATE, housing cover
	70904206	5	LOCKWASHER, 3/8"
	70910123	5	NUT, 3/8"NF
5	74367090	1	□GASKET, tachometer hole nut
6	74371118	1	NUT, cover, tachometer hole
7	74391419	1	SHAFT, upper
	70917409	1	KEY, #9 woodruff, 3/16" x 3/4"
	70905850	1	KEY, straight, 3/16" x 1"
8	74391403	1	GEAR, accessory drive
9	74391412	1	WASHER, thrust, upper shaft, front
10	70911044	1	NUT, auxiliary drive gear shaft
11	70900703	1	WASHER, auxiliary drive gear shaft
12	70923574	1	O-RING, auxiliary drive gear shaft
13	74376598	1	WASHER, thrust, auxiliary drive gear
	70917014	2	PIN, dowel, 1/8" x 3/8"
14	74391407	1	WASHER, thrust, rear
15	74364404	1	GEAR, upper shaft (14 teeth)
16	74376596	1	BUSHING, auxiliary drive gear
17	74320608	1	GEAR ASSEMBLY, auxiliary drive (Includes item 16)
18	74391411	1	PLATE, thrust, auxiliary drive gear
19	74376591	1	SHAFT ASSEMBLY, auxiliary drive (Includes PLUG indented below)
	70917673	1	PLUG, pipe, hex-socket, 1/8"NPT
20	74376604	1	GASKET, cover
21	74386711	1	COVER ASSEMBLY, housing (Includes item 28)
	70912069	10	CAPSCREW, 3/8"NC x 2-1/2"
	70904206	10	LOCKWASHER, 3/8"
	70917023	2	PIN, dowel, 1/4" x 1"
22	74389599	5	STUD, housing cover
23	74391019	1	SEAL, oil, upper shaft
24	74251601	1	GASKET, tachometer drive adapter

(Continued)

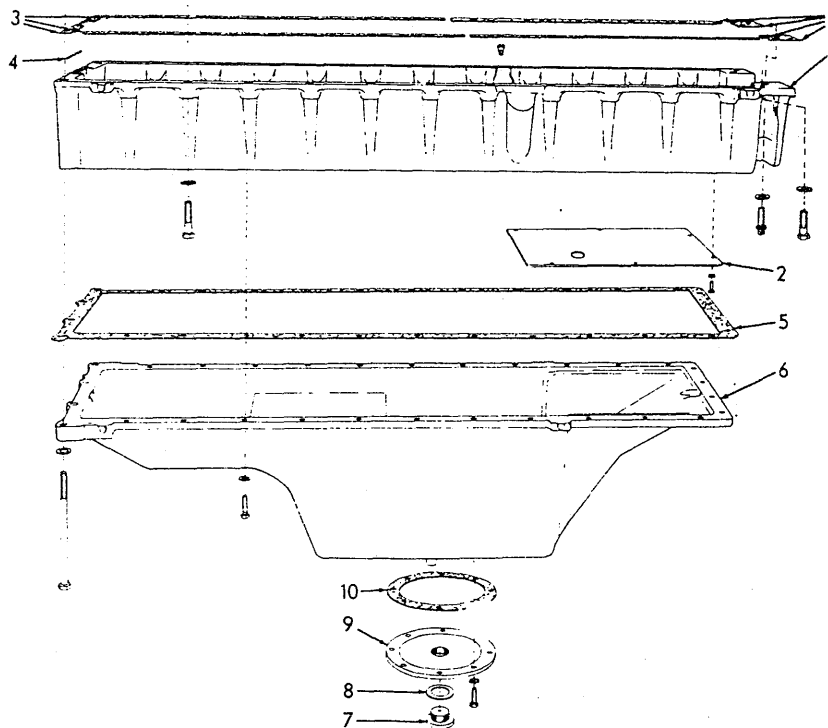
ACCESSORY DRIVE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	74365627	1	ADAPTER, tachometer drive
26	74386879	1	SEAL, oil, lower shaft
27	74254742	1	RING, snap, bushing retaining
28	74377278	1	BUSHING, housing cover
29	74391475	1	SHAFT, lower
	70917409	1	KEY, #9 woodruff, 3/16" x 3/4 "
30	70930805	1	NUT, upper shaft (self-locking)
31	74376590	1	GEAR, driving, fuel transfer pump
32	74391554	1	GEAR, lower shaft (42 teeth)
33	74391412	1	WASHER, thrust, lower shaft, rear
34	74391408	1	HOUSING ASSEMBLY (Includes item 35)
	70917673	4	PLUG, pipe, hex-socket, 1/8"NPT
35	74369746	4	BUSHING, accessory drive housing
36	74364166	1	WASHER, thrust, lower shaft, front
37	70930805	1	NUT, lower shaft (self-locking)
38	74376627	1	TUBE ASSEMBLY, lubricating oil (Includes nuts)
	70910141	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
	70917013	1	ELBOW, street, brass, 90°, 1/8"NPT
39	74391885	1	ELBOW, lubricating oil tube
	70917841	1	NIPPLE, pipe, 1/8"NPT x 7/8"
40	74361829	1	CLIP, tube supporting
	74335669	1	CAPSCREW, drilled-hd., 1/4"NC x 1/2"
	70904204	1	LOCKWASHER, 1/4"
	74348691	1	WIRE, locking #18 x 6"



USAGE: Standard equipment on engines prior to serial No. 21-11975

ITEM	PART NO.	QTY.	DESCRIPTION
1	74392013	1	METER ASSY. (Serviced only as a unit)
2	70924137	1	O-RING, meter mounting
3	74359293	2	CLAMP, meter attachment
	74391914	2	SCREW, hex-socket-hd., 1/4"NF x 3/4"
	70904204	2	LOCKWASHER, 1/4"
4	74355843	1	SEAL, anti-tampering
5	74391912	1	PLUG, camshaft (meter driving)



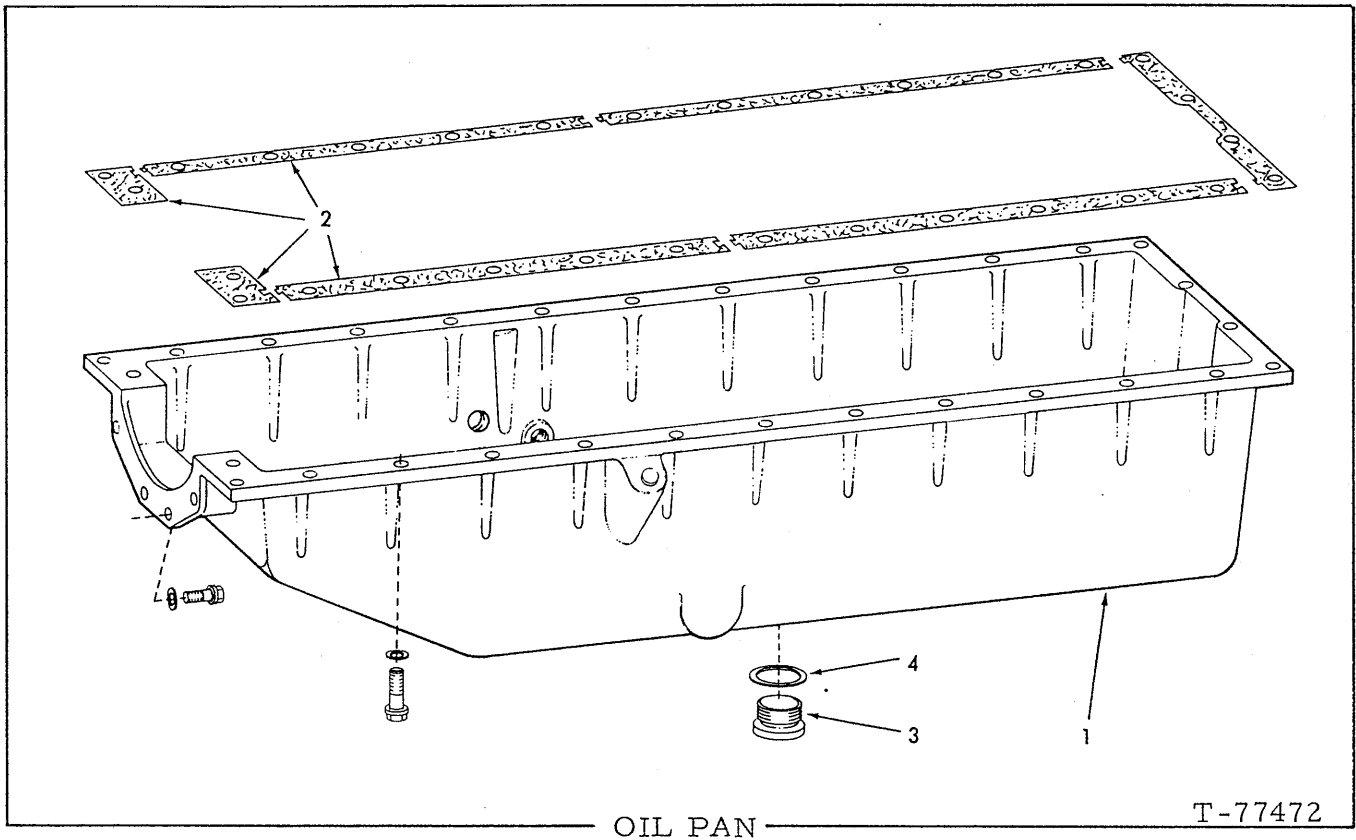
OIL PAN

T-39379

USAGE: Used prior to engine serial No. 21-11796

ITEM	PART NO.	QTY.	DESCRIPTION
1	74391646	1	PAN, oil, upper section
	70919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	70916314	23	CAPSCREW, 1/2"NC x 2"
	70915987	1	CAPSCREW, 1/2"NC x 1-1/2"
	70922065	2	SCREW, 12-pt. head, 1/2"NC x 1-1/4"
	70912333	36	WASHER, plain
2	74385796	1	PLATE, oil baffle
	70915343	6	CAPSCREW, 1/4"NC x 5/8"
	70904204	6	LOCKWASHER, 1/4"
3	74395803	1	GASKET SET, upper oil pan
4	74379070	1	SEAL, oil
5	74385781	1	GASKET SET, lower oil pan
6	74391390	1	PAN, oil, lower section
	70914847	26	CAPSCREW, 3/8"NC x 1-1/2"
	70911423	26	WASHER, plain, 3/8"
	70916326	4	CAPSCREW, 1/2"NC x 7-1/2"
	70912333	4	WASHER, plain, 1/2"
7	70035250	1	PLUG, oil drain
8	70667252	1	GASKET, drain plug
9	74371255	1	PLATE, clean-out hole
	70919224	8	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	8	LOCKWASHER, 3/8"
10	74371289	1	GASKET, clean-out hole plate

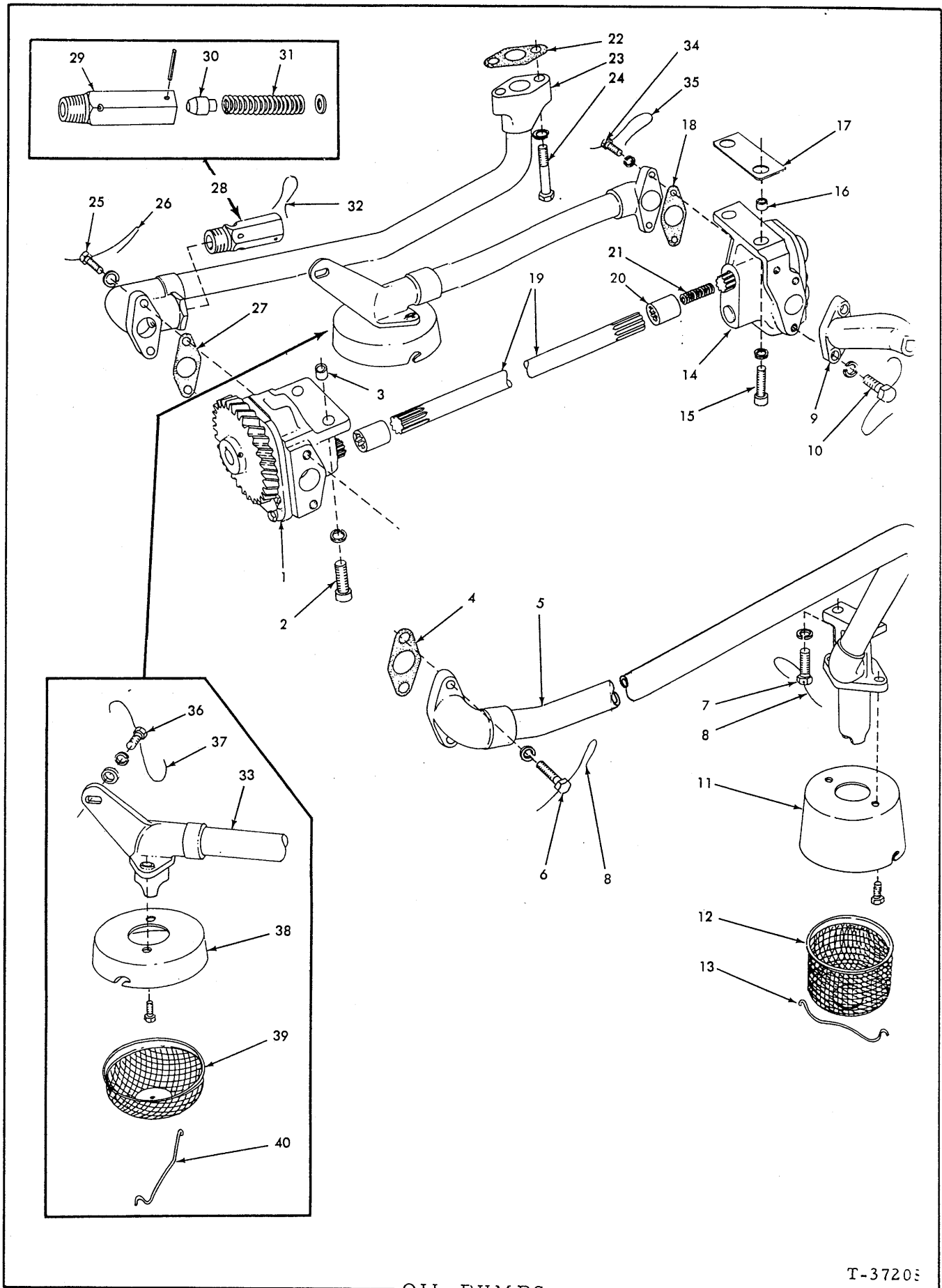
(Revised August 1979)



USAGE: Engine serial No. 21-11796 and up; also prior units with Oil Pump Conversion Kit

ITEM	PART NO.	QTY.	DESCRIPTION
1	74395235	1	PAN, aluminum
	74396124	1	PAN, iron
	70922064	4	CAPSCREW, 12-pt., 1/2"NC x 1"
	70922220	30	CAPSCREW, 12-pt., 1/2"NC x 1-1/2"
	70912007	34	WASHER
	70924636	1	PLUG, pipe, 1/2"NPT
	70918851	1	PLUG, pipe, 3/4"NPT
	74362338	1	PLUG, gauge hole
	70921216	1	PLUG (Includes O-ring)
	70921214	1	O-RING
	70924420	1	PLUG, 1-1/2"NPT
2	74395803	1	GASKET SET
3	70035250	1	PLUG, drain
4	70667252	1	GASKET, drain plug

For engines prior to #21-13336
also order 1 Plug 70035250, 1
gasket 70667252, 1 Plug 70921216
and 1 Plug 74362338



OIL PUMPS

T-37203

OIL PUMPS

USAGE: Engines prior to Serial No. 21-11796

ITEM	PART NO.	QTY.	DESCRIPTION
1	74390252	1	PUMP ASSY., pressure (See NOTE below)
2	70912274	2	CAPSCREW, hex-socket-hd., 7/16"NC x 1-1/2"
	70904207	2	LOCKWASHER, 7/16"
3	74371253	2	DOWEL, hollow, pressure pump
4	74389782	1	GASKET, pressure pump suction line
5	74390362	1	TUBE, suction, pressure pump
6	74378558	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
	70904206	2	LOCKWASHER, 3/8"
7	74377201	2	CAPSCREW, drilled-hd., 7/16"NC x 1-1/4"
	70904207	2	LOCKWASHER, 7/16"
8	74509035	2	WIRE, locking, #18 x 10"
9	74388488	1	TUBE, discharge, scavenging pump
10	74335610	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/4"
11	74389732	1	COVER, pressure pump oil screen
	70915813	2	CAPSCREW, 5/16"NC x 7/8"
12	74374127	1	SCREEN, pressure oil pump
13	74376294	1	RETAINER, pressure oil pump screen
14	74390098	1	PUMP ASSY., scavenging (See NOTE below)
15	70912274	2	CAPSCREW, hex-socket-hd., 7/16"NC x 1-1/2"
	70904207	2	LOCKWASHER, 7/16"
16	74371253	2	DOWEL, hollow, scavenging pump
17	74386384	1	SHIM, scavenging pump
18	74389782	1	GASKET, scavenging pump suction line
19	74385537	1	SHAFT, scavenging pump drive
20	74385536	2	COUPLING, splined, scavenging pump drive
21	74385715	1	SPRING, pump drive shaft
22	74660423	1	GASKET, discharge line to block
23	74388261	1	TUBE, pressure pump discharge
24	70916314	2	CAPSCREW, 1/2"NC x 2"
	70904208	2	LOCKWASHER, 1/2"
25	74378558	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
26	74509035	1	WIRE, locking, #18 x 10"
27	74389782	1	GASKET, discharge line to pump
28	74354573	1	VALVE ASSY., pressure relief (Items 29 thru 31)
29	-----	1	BODY, pressure relief valve
30	-----	1	PISTON, pressure relief valve
31	74354568	1	SPRING, pressure relief valve
	74359310	1	WASHER, plain
	70916001	1	PIN, roll, 3/16" x 1"
32	74509035	1	WIRE, locking, pressure relief valve

Not serviced separately

NOTE: Replacements for the original equipment pressure scavenging pump assemblies (items 1 and 14) are no longer supplied. If replacement of either pump is necessary, install OIL PUMP CONVERSION KIT 74394971. See PACKAGED PARTS.

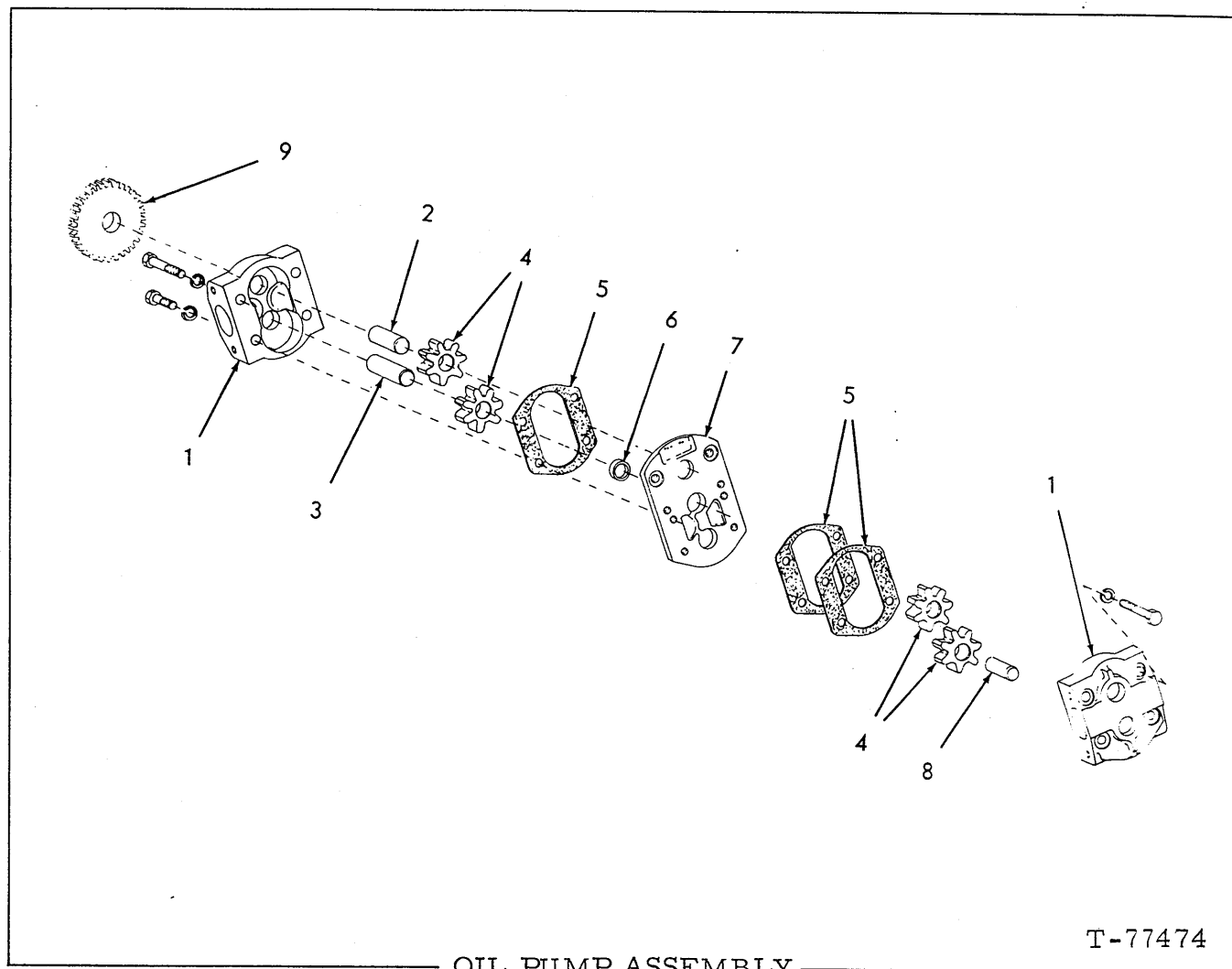
(Continued)

(Revised February 1978)

OIL PUMPS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
33	74390328	1	TUBE, suction, scavenging pump
34	74335548	2	CAPSCREW, drilled-hd., 3/8"NC x 1-7/8"
35	74509035	1	WIRE, locking, #18 x 10"
36	74377202	1	CAPSCREW, drilled-hd., 5/16"NC x 1"
	70913755	1	WASHER, plain
	70904206	2	LOCKWASHER, 3/8"
	70904205	1	LOCKWASHER, 5/16"
37	74348691	1	WIRE, locking, #18 x 6"
38	74348684	1	COVER, scavenging pump screen
	70915813	2	CAPSCREW, 5/16"NC x 7/8"
39	74348683	1	SCREEN, scavenging oil pump
40	74348682	1	RETAINER, scavenging oil pump screen

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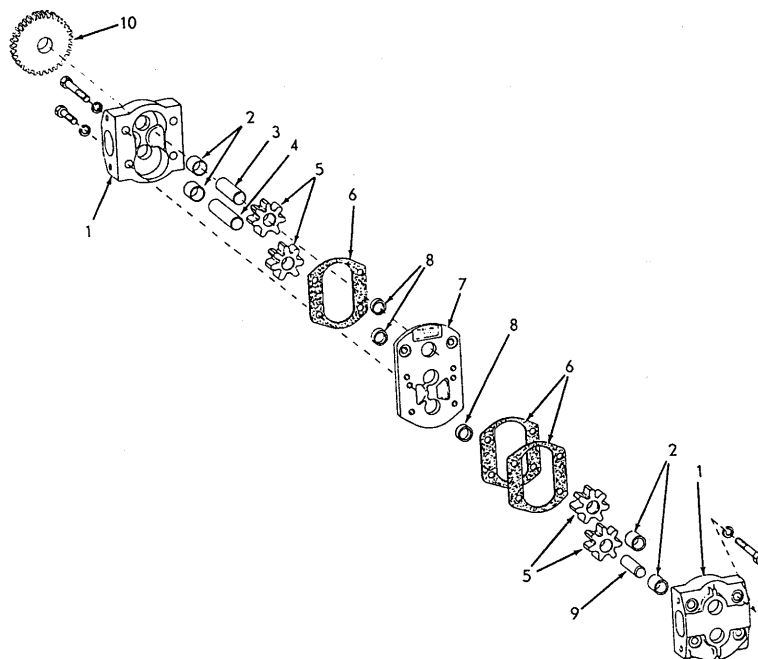
T-77474

OIL PUMP ASSEMBLY

USAGE: Second type. See page 42

ITEM	PART NO.	QTY.	DESCRIPTION
-	74396041	1	PUMP ASSY. (Includes items 1 thru 9)
1	74395087	2	BODY ASSY.
	70920594	6	CAPSCREW, 7/16"NF x 2"
	70928211	2	CAPSCREW, 7/16"NF x 3-3/4"
	70907863	8	LOCKWASHER, 7/16"
2	74393351	1	SHAFT
3	74026614	1	SHAFT
4	74396037	4	GEAR
5	74393349	3	GASKET
6	74393346	1	BUSHING
7	74396039	1	PLATE ASSY. (Includes item 6)
8	74393354	1	SHAFT
9	74393355	1	GEAR

(Added February 1978)



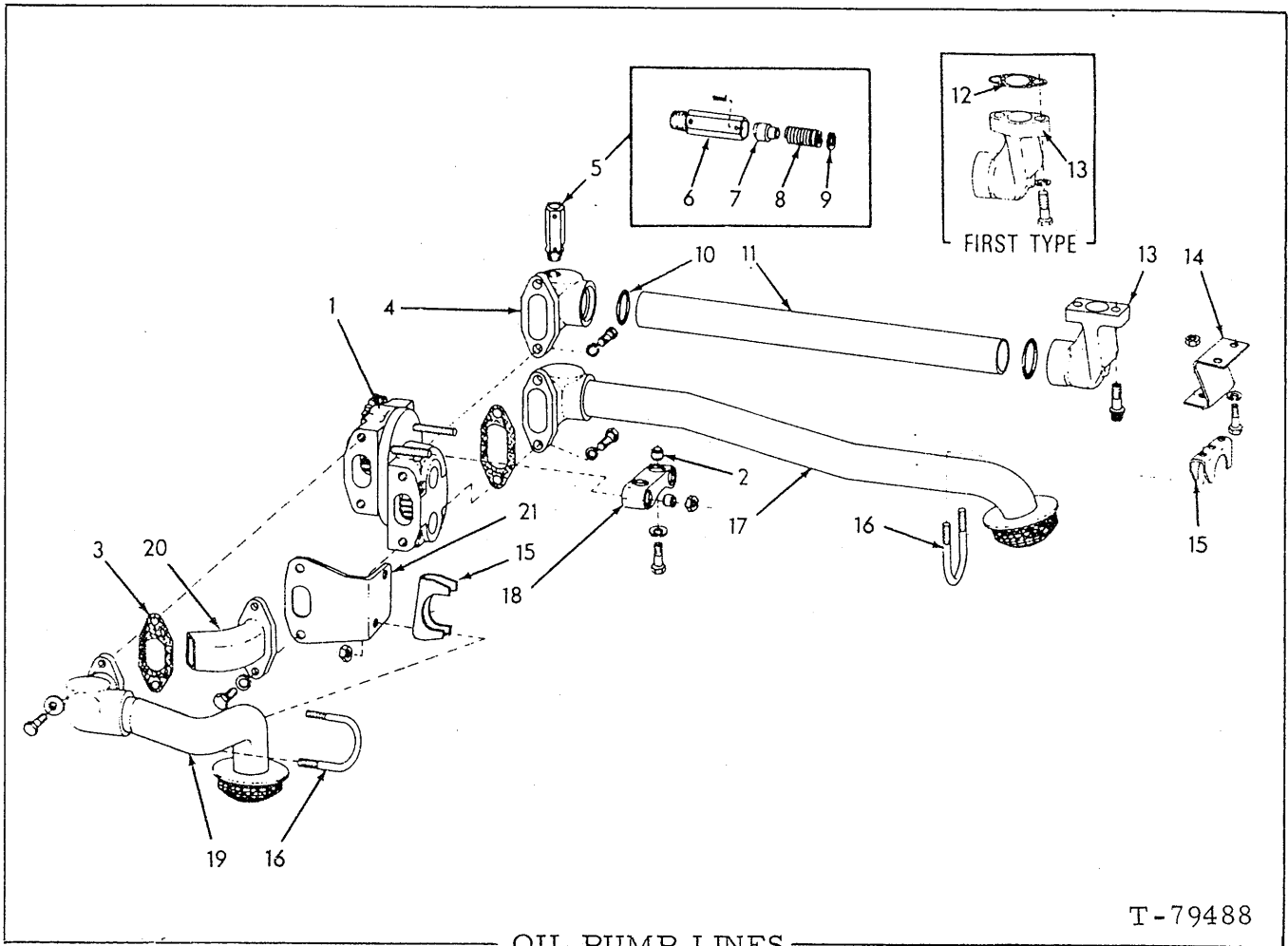
T-77474

OIL PUMP ASSEMBLY

USAGE: First type. See page 42

ITEM	PART NO.	QTY.	DESCRIPTION
-	74395092	1	PUMP ASSY. (Includes items 1, 3 thru 7, 9 and 10)
1	74395087	2	BODY ASSY.
	70920594	6	CAPSCREW, 7/16"NF x 2"
	70928211	2	CAPSCREW, 7/16"NF x 3-3/4"
	70907863	8	LOCKWASHER, 7/16"
2	74393346	4	BUSHING (Engines prior to #21-14024)
3	74393351	1	SHAFT
4	74026614	1	SHAFT
5	74028077	4	GEAR
6	74393349	3	GASKET
7	74390589	1	PLATE ASSY.
8	74393346	3	BUSHING (Engines prior to #21-14024)
9	74393354	1	SHAFT
10	74393355	1	GEAR

(Revised February 1978)



OIL PUMP LINES

USAGE: Engine serial No. 21-11796 and up

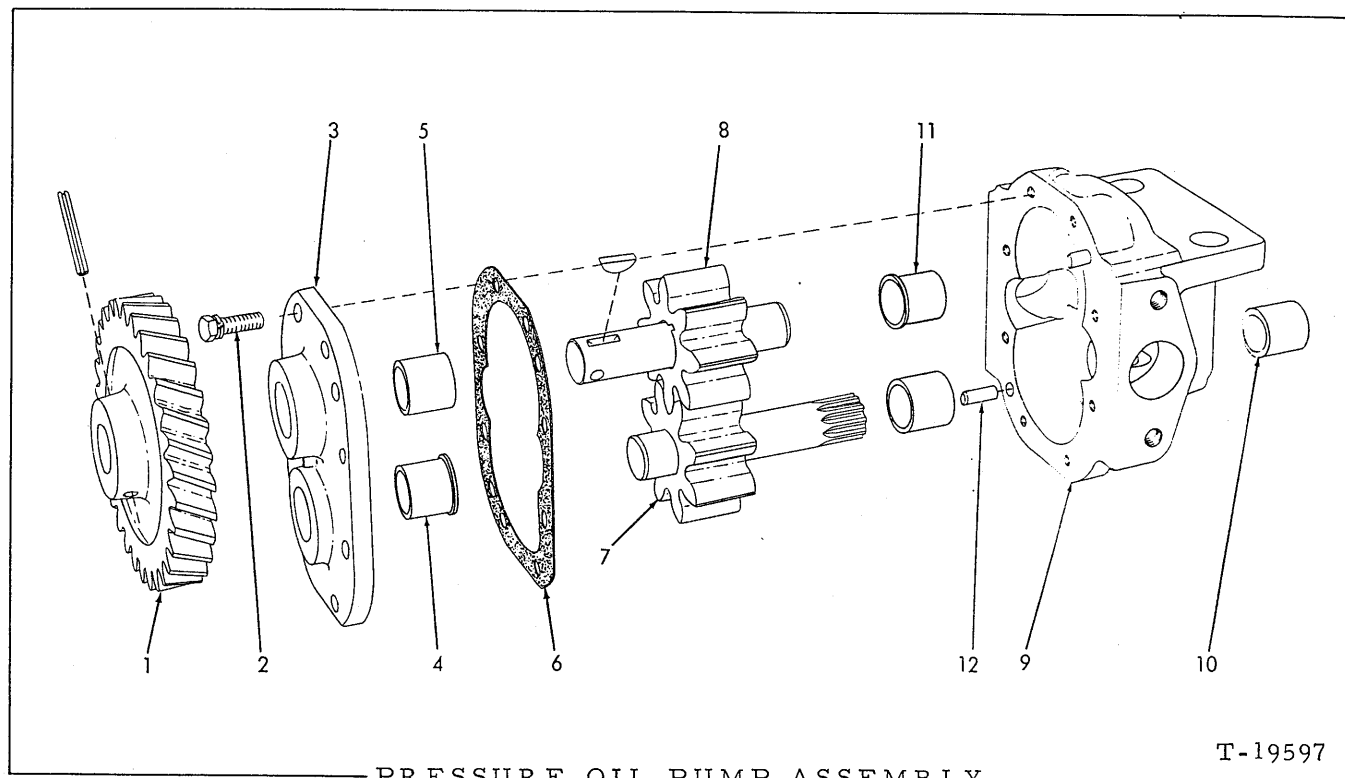
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PUMP ASSY. (See pages 40B and 41)
	70928212	2	NUT, 7/16"NC
2	74395024	4	DOWEL
3	74393359	4	GASKET (2 less used effective engine #21-13980)
4	74393362	1	ELBOW
	70923193	2	CAPSCREW, 3/8"NF x 1-1/4"
	70916543	2	LOCKWASHER, internal teeth, 3/8"
5	74320597	1	VALVE ASSY. (Includes items 6 thru 9)
6	-----	1	BODY (Not serviced separately)
	70916001	1	PIN, spring, 3/16" x 1"
7	-----	1	PISTON (Not serviced separately)
8	74354568	1	SPRING
9	74359310	1	WASHER
10	70927044	2	O-RING
11	74393364	1	TUBE
12	74660423	1	GASKET (Engines prior to #21-13980)

(Continued)

(Revised February 1978)

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OIL PUMP LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
13	74393363	1	ELBOW (Engines prior to #21-13980)
	70916313	2	CAPSCREW, 1/2"NC x 1-3/4"
	70904208	2	LOCKWASHER, 1/2"
	74395053	1	ELBOW (Engines #21-13980 and up)
	70922220	2	CAPSCREW, 12-pt., 1/2"NC x 1-1/2"
14	74393599	1	BRACKET
	70927485	2	CAPSCREW, 7/16"NC x 1" (Engines prior to #21-13680)
	70921569	2	CAPSCREW, 7/16"NC x 1-1/4" (Engines #21-13680 and up)
	70914678	2	LOCKWASHER, 7/16"
15	74393601	2	SADDLE
16	74393600	2	U-BOLT
	70916871	4	NUT, elastic stop, 5/16"NC
17	74395060	1	TUBE (Includes screw)
	70923193	2	CAPSCREW, 3/8"NF x 1-1/4"
	70916543	2	LOCKWASHER, internal teeth, 3/8"
18	74393341	1	BRACKET
	70927583	2	CAPSCREW, 7/16"NC x 1-3/4"
	70904207	2	LOCKWASHER, 7/16"
	70911992	2	WASHER
19	74395061	1	TUBE (Includes screw)
	70923193	2	CAPSCREW, 3/8"NF x 1-1/4"
	70916543	2	LOCKWASHER, internal teeth, 3/8"
20	74394957	1	ELBOW
	70923193	2	CAPSCREW, 3/8"NF x 1-1/4"
	70916543	2	LOCKWASHER, internal teeth, 3/8"
21	74395062	1	BRACKET, (Engines #21-14021 and up)

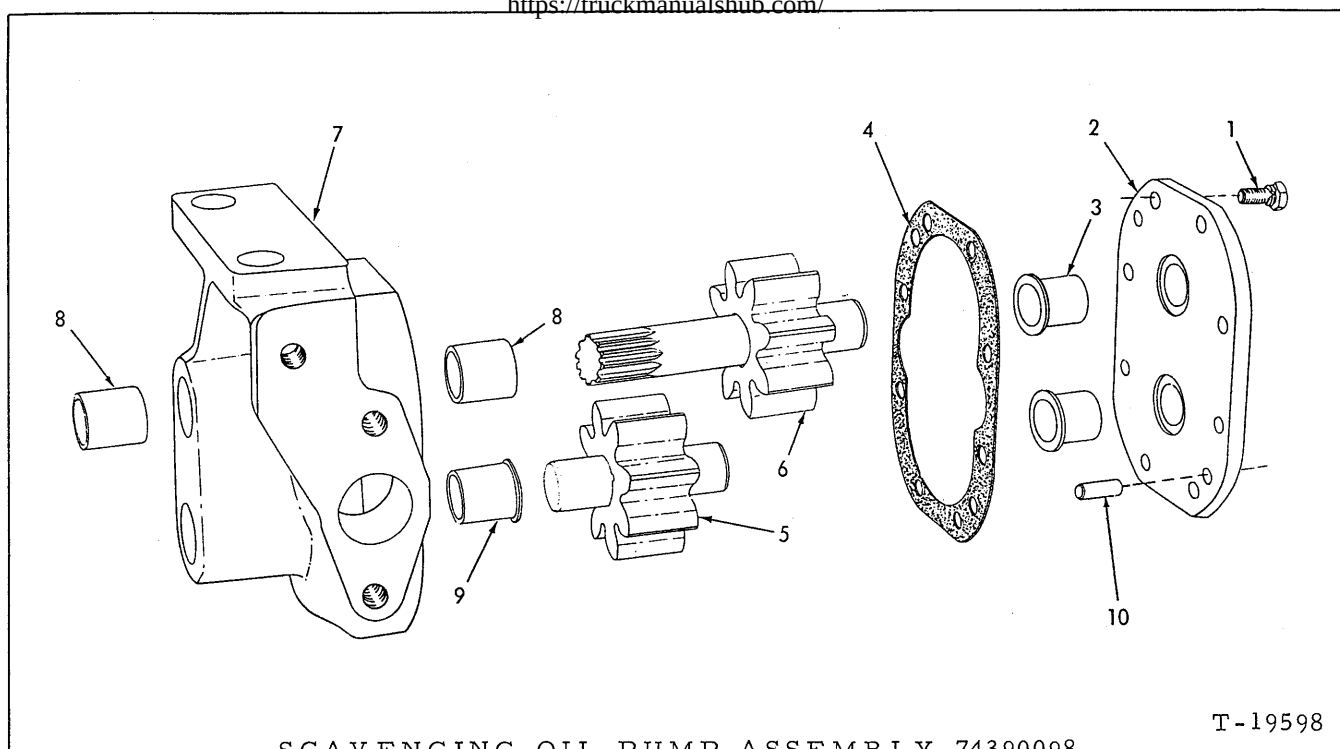


T-19597

PRESSURE OIL PUMP ASSEMBLY

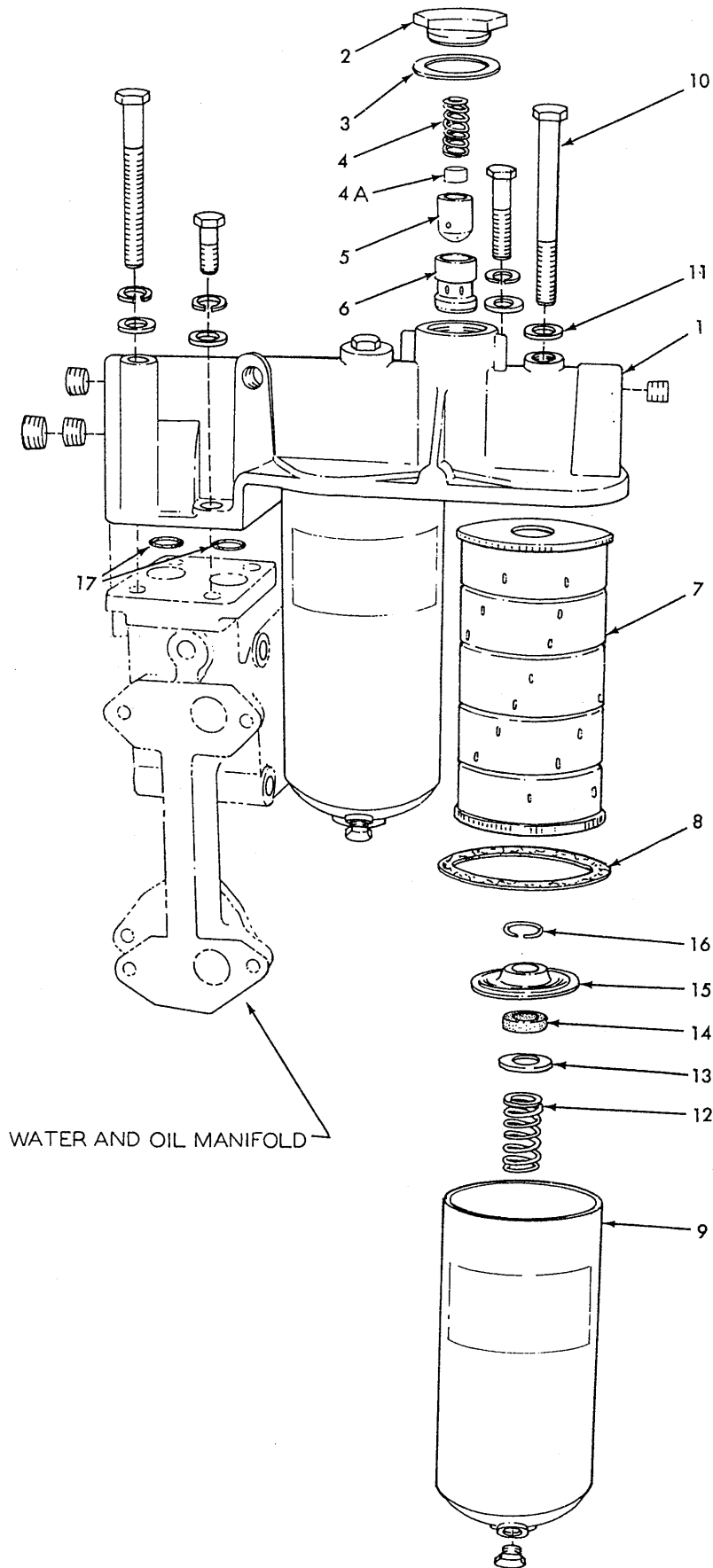
USAGE: See page 39

ITEM	PART NO.	QTY.	DESCRIPTION
1	74386088	1	GEAR, driving
	70915751	1	PIN, spring, 3/16" x 1-1/2"
	70910224	1	KEY, #6 woodruff, 5/32" x 5/8"
2	70923408	8	CAPSCREW, pump cover (Includes lockwasher)
3	74386077	1	COVER ASSY. (Includes items 4 and 5)
4	74377038	1	BUSHING, pump cover (flanged)
5	74371270	1	BUSHING, pump cover (plain)
6	74386083	1	GASKET, cover
7	74379415	1	SHAFT AND GEAR ASSY., lower
8	74390067	1	SHAFT AND GEAR ASSY., upper
9	74390064	1	BODY ASSY. (Includes items 10 thru 12)
10	74371270	2	BUSHING, pump body (plain)
11	74377039	1	BUSHING, pump body (flanged)
12	70917555	2	PIN, dowel, pump body



USAGE: See page 39

ITEM	PART NO.	QTY.	DESCRIPTION
1	70923408	8	CAPSCREW, pump cover
2	74377050	1	COVER ASSY. (Includes item 3)
3	74377039	2	BUSHING, pump cover
4	74371300	1	GASKET, pump cover
5	74377054	1	SHAFT AND GEAR ASSY., lower
6	74379610	1	SHAFT AND GEAR ASSY., upper
7	74390097	1	BODY ASSY. (Includes items 8 thru 10)
8	74371270	2	BUSHING, pump body (plain)
9	74377039	1	BUSHING, pump body (flanged)
10	70917555	2	PIN, dowel, pump body



WATER AND OIL MANIFOLD

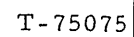
OIL FILTER (Full-flow type)

T-70444

ITEM	PART NO.	QTY.	DESCRIPTION
1	74395610	1	HEAD ASSY. (Includes PLUGS indented below)
	70918888	3	PLUG, pipe, hex-socket, 1"
	70918697	1	PLUG, pipe, hex-socket, 1-1/4"
	70915987	2	CAPSCREW, 1/2"NC x 1-1/2"
	70916317	2	CAPSCREW, 1/2"NC x 2-3/4"
	70916323	2	CAPSCREW, 1/2"NC x 5-1/2"
	70912333	6	WASHER, plain
	70904208	6	LOCKWASHER, 1/2"
2	74388810	1	CAP, by-pass valve
3	74388848	1	GASKET, by-pass valve cap
4	-----	1	SPRING, by-pass valve (Used prior to engine #21-10855. Order SPRING 74359656)
	74359656	1	SPRING, by-pass valve (Engine #21-10855 and up)
4A	-----	1	SPACER, by-pass valve (Used prior to engine #21-10855. Order SPRING 74359656)
5	74373613	1	PISTON, by-pass valve
6	74388809	1	SLEEVE, by-pass valve piston
7	74395889	2	ELEMENT KIT (Includes item 8)
8	74396318	2	GASKET, filter body
9	74339021	2	BODY
	70918951	2	PLUG, pipe, hex-hd., 3/8"NPT
10	70916324	2	CAPSCREW, 1/2"NC x 6"
11	74376749	2	WASHER, sealing, body retaining capscrew
12	74379268	2	SPRING, element
13	74053410	2	WASHER, element seal
14	74053409	2	SEAL, element
15	74055971	2	ADAPTOR, element
16	74379269	2	RING, snap
17	74255631	2	O-RING, filter to manifold

NOTE: See PAINTING AND MARKING for instruction transfer applied to filter

(Revised August 1979)

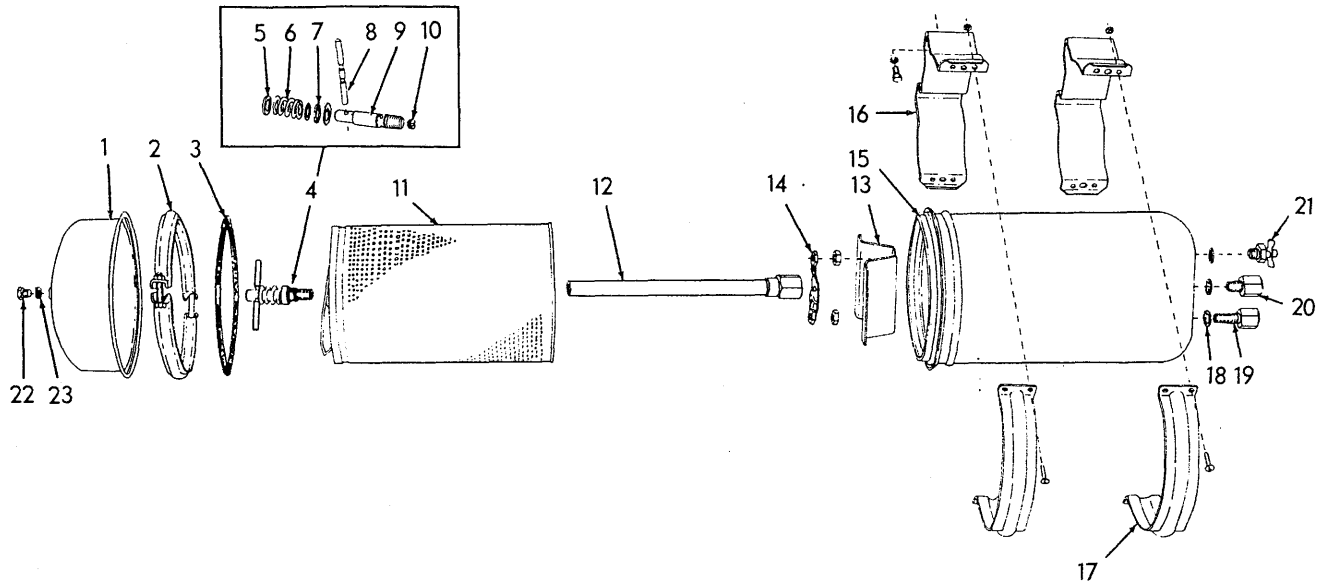


OIL FILTER
(By-pass type)

USAGE: Supplements engine-mounted full-flow filter

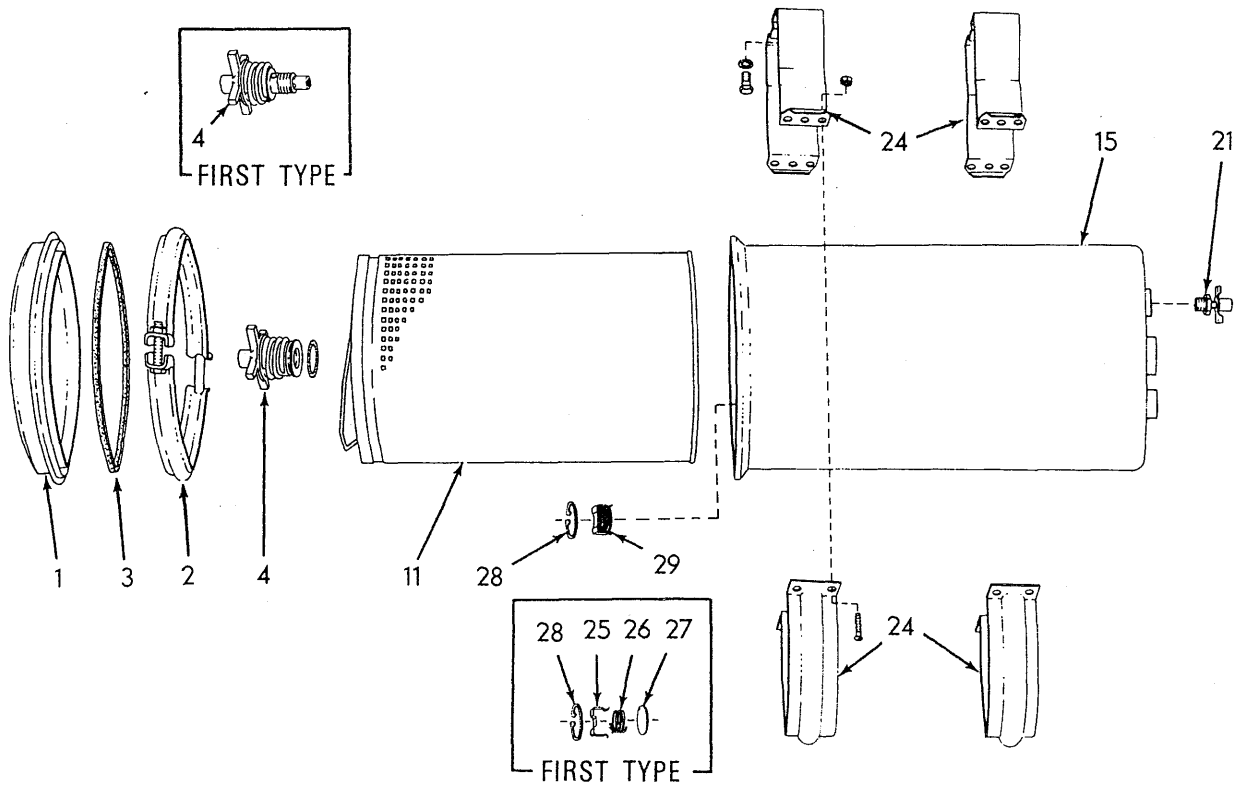
ITEM	PART NO.	QTY.	DESCRIPTION	
1	74390593	1	FILTER ASSY. (See page 50 for parts)	
	70921566	8	CAPSCREW, 5/16"NC x 1"	} Not for units with dozer hydraulics
	70910286	8	LOCKWASHER, 5/16"	
	70911025	8	NUT, 5/16"NC	} For units with dozer hydraulics
	70927612	8	CAPSCREW, 5/16"NC x 5/8"	
	70910286	8	LOCKWASHER, 5/16"	
2	70665949	1	BRACKET, mounting	
3	70920583	3	CAPSCREW, 1/2"NC x 1-1/2"	} Not used on units equipped with dozer hydraulics
	70677008	3	WASHER, plain	
	70912441	3	LOCKWASHER, 1/2"	
	70911028	3	NUT, 1/2"NC	
4	70667720	2	HOSE, rear (See HOSE PARTS)	
	70919128	2	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male	
5	70644713	2	CLIP, rear hose	
	70916310	1	CAPSCREW, 1/2"NC x 1"	
	70910244	1	WASHER, plain, SAE std., 1/2"	
	70904208	1	LOCKWASHER, 1/2"	
	70911028	1	NUT, 1/2"NC	
6	70662995	1	STRIP, supporting, rear hose	
	70916310	1	CAPSCREW, 1/2"NC x 1"	
	70904208	1	LOCKWASHER, 1/2"	
7	70667717	1	TUBE ASSY., oil supply (Includes nuts)	
8	70667719	1	HOSE, oil supply, line, front (See HOSE PARTS)	
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male	
9	70667716	1	TUBE ASSY., oil return (Includes nuts)	
10	70667718	1	HOSE, oil return line, front (See HOSE PARTS)	
	70919206	1	ELBOW, flare type, 1/2" tube, 3/8"NPT male	
11	70093752	8	BOOT, tube protecting (rubber)	
12	70097534	8	CLIP, tube supporting	
	70915408	2	CAPSCREW, 3/8"NC x 3/4"	
	70916271	3	CAPSCREW, 3/8"NC x 1"	
	70904206	5	LOCKWASHER, 3/8"	
	70911115	2	WASHER, plain, SAE std., 3/8"	
	70911993	6	WASHER, plain	
13	70667676	1	HOSE, oil drain	

NOTE: See PAINTING AND MARKING for instruction
transfers applied to filter.



T-74660

LUBER-FINER DESIGN



T-76480

FLEETGUARD DESIGN

OIL FILTER (By-pass type)

(Revised February 1978)

USAGE: See page 49

NOTE: This Filter Assembly is available in two designs, "Fleetguard" and "Luber-Finer." Check which is applicable to your unit and order service parts accordingly.

* Luber-Finer Design

** Fleetguard Design

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
-	74390593	1	- FILTER ASSY. (Includes items 1 thru 23)
-	74390593	- 1	FILTER ASSY. (Includes items 1 thru 4, 11, 15, 21, 24 thru 29)
1	74059262	1	- COVER
	74059813	- 1	COVER
2	70630540	1	- RING ASSY. (Includes nut and bolt)
	74059814	- 1	COUPLING ASSY. (Includes hardware. Serviced only as a unit)
3	70082449	1	- GASKET
	73115065	- 1	GASKET
4	74059266	1	- HOLD-DOWN ASSY. (Includes items 5 thru 10)
	74060691	- 1	SUPPORT ASSY. (Male thread post) } Each includes
			(First type) } O-RING. Service
	74061788	- 1	SUPPORT ASSY. (Female thread post)(Second type) } only as a unit
5	70082489	3	- WASHER
6	70082490	1	- SPRING
7	70082487	1	- SEAL
8	70082488	1	- HANDLE
9	-----	1	- STUD (Not serviced separately)
10	74059265	1	- PLUG
11	74059343	1	1 ELEMENT
12	74059264	1	- TUBE ASSY. (Includes nut)
13	70096816	1	- SUPPORT
	70911049	2	- NUT, jam, 5/8" NF
14	70096815	1	- RETAINER
15	-----	1	- HOUSING (Not serviced separately)
	-----	- 1	SHELL (Female thread-post)(First type)(For initial replacement order SHELL 74061785 and SUPPORT ASSY. 74061788)
	74061785	- 1	SHELL (Male thread post)(Second type)
16	70082444	2	- BRACKET
17	70082443	2	- BAND
	70915406	8	- CAPSCREW, 1/4" NC x 3/4"
	70911024	8	- NUT, 1/4" NC
18	70063891	3	- GASKET
19	70063890	1	- VALVE ASSY. (Includes 1 spring, 1 ring, 1 cup) (Serviced only as a unit)
20	70080758	1	- VALVE ASSY. (Includes 1 spring, 1 ring, 1 cup) (Serviced only as a unit)

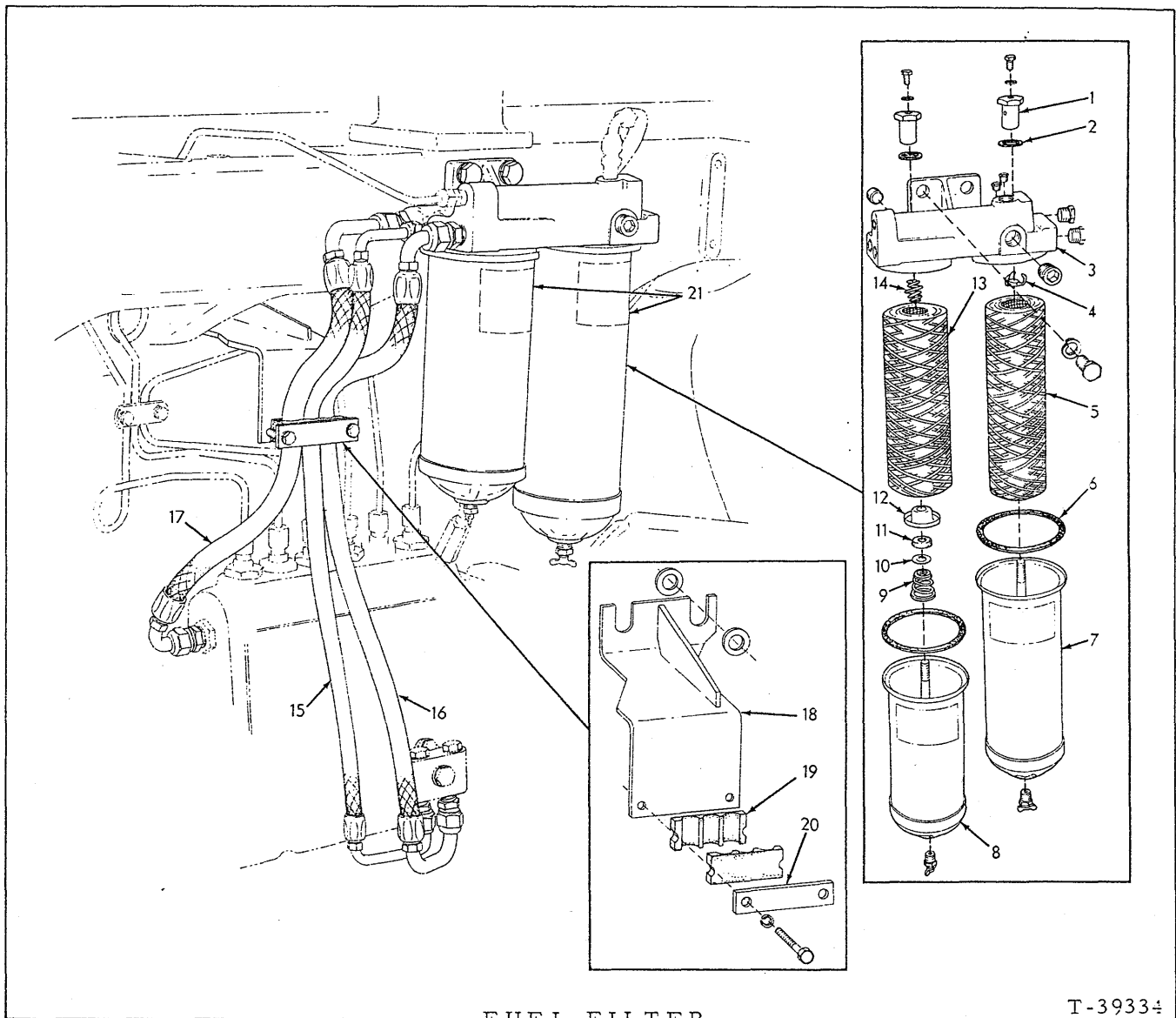
(Continued)

(Revised February 1978)

OIL FILTER (By-pass type)(Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
21	74060755	1	-	COCK
	70229210	-	1	COCK
22	70084897	1	-	PLUG
23	70084899	1	-	WASHER
24	74061786	-	1	BRACKET ASSY. (2-piece, includes hardware. Serviced only as a unit)
25	74059810	-	1	CAGE
26	74059811	-	1	SPRING
27	74059812	-	1	DISC
28	74253555	-	1	RING
29	74061789	-	1	VALVE, check

} First type. Order item 29



FUEL FILTER

T-39334

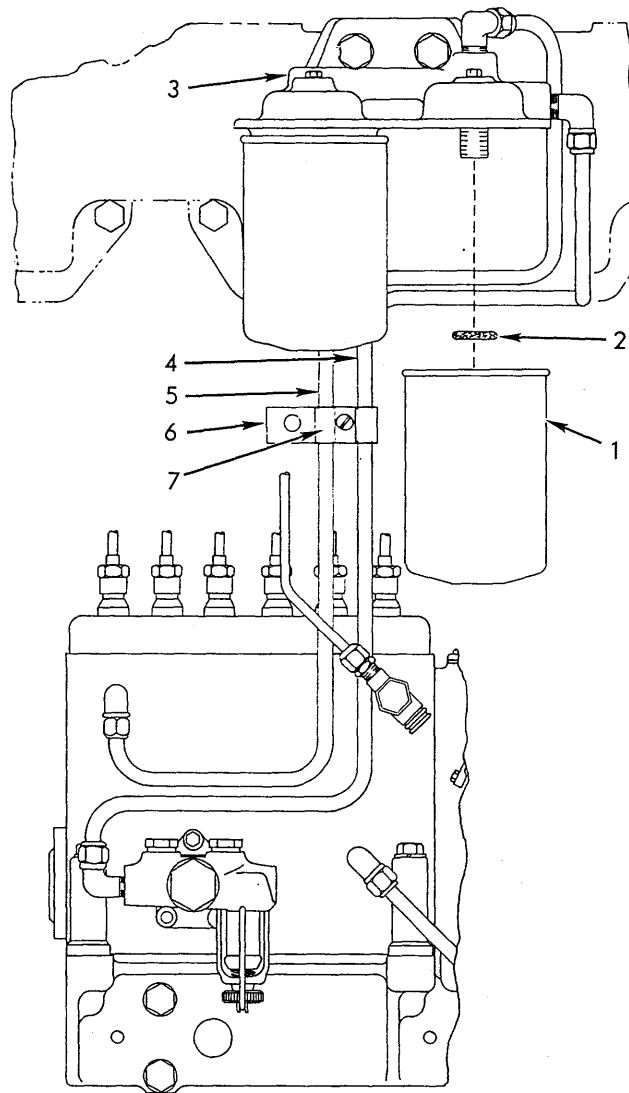
USAGE: Engines prior to Serial No. 21-11088

ITEM	PART NO.	QTY.	DESCRIPTION
1	74389113	2	NUT, shell retaining
	70919288	2	CAPSCREW, 1/4"NC x 3/8"
	70914686	2	WASHER, copper
			} Air bleed
2	74051484	2	GASKET, shell retaining nut
3	74389051	1	HEAD ASSY. (Includes PLUGS indented below)
	70919134	2	PLUG, pipe, hex-hd., 1/8"NPT
	70920333	2	PLUG, pipe, hex-hd., 3/8"NPT
	70918887	2	PLUG, pipe, hex-socket, 3/8"NPT
	70916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	2	LOCKWASHER, 1/2"
4	74051485	1	GUIDE, centering, first stage filter element
5	74055565	1	ELEMENT KIT, first stage filter (Includes item 6)

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
6	74040013	2	GASKET, filter shell	
7	74389172	1	SHELL ASSY., first stage filter (Includes item 1, 2, 4, 5, 6 and COCK 70912415)	
	70912415	1	COCK, drain, 1/4"NPT	
8	74388109	1	SHELL ASSY., second stage filter (Includes items 1, 2, 6, 9 thru 14 and COCK 70912415)	
9	74052174	1	SPRING, second stage filter	
10	-----	1	WASHER, element plate gasket (Not serviced separately)	
11	-----	1	GASKET, element plate (Not serviced separately)	
12	74052173	1	PLATE, element seating, second stage filter	
13	74056632	1	ELEMENT KIT, second stage filter (Includes items 6, 10 and 11)	
14	74055913	1	GUIDE, element centering, second stage filter	
15	74386771	1	HOSE ASSY., transfer pump to second stage filter (See HOSE PARTS)	Engines prior to #21-11699
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male	
	70919172	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male (At filter end)	
	74393160	1	HOSE ASSY., transfer pump to second stage filter (Also order 1 ELBOW 70919135 and 1 ELBOW 70919136)(See HOSE PARTS)	Engine #21-11699 and up
	70919135	1	ELBOW, flare type, 90°, 3/8" tube, 9/16"NF male end	
	70919136	1	ELBOW, flare type, 3/8" tube, 3/8"NPT male end	
16	74386772	1	HOSE ASSY., first stage filter to transfer pump (See HOSE PARTS)	Engines prior to #21-11699
	70919205	1	CONNECTOR, flare type, 1/2" tube, 1/4"NPT male	
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male	
	74393161	1	HOSE ASSY., first stage filter to transfer pump (See HOSE PARTS)	Engine #21-11699 and up
	70919206	1	ELBOW, flare type, 1/2" tube, 3/8"NPT male	
	70922872	1	ELBOW, flare type, 90°, 1/2" tube, 1/4"NPT male	
17	74386774	1	HOSE ASSY., second stage filter to injection pump (See HOSE PARTS)	
	70919063	2	CONNECTOR, flare type, 1/2" tube, 3/8" NPT male	
18	74387129	1	BRACKET, hose supporting	
	70910244	4	WASHER	
19	74377253	2	INSERT, hose clamping (rubber)	
20	74387196	1	CLAMP, hose supporting	
	70916286	2	CAPSCREW, 1/4"NC x 1-1/2"	
	70904204	2	LOCKWASHER, 1/4"	
21	-----	-	TRANSFER (See page 261)	

(Revised February 1978)



FUEL FILTER

T-75825

USAGE: Engines Serial No. 21-11088 thru 21-11874

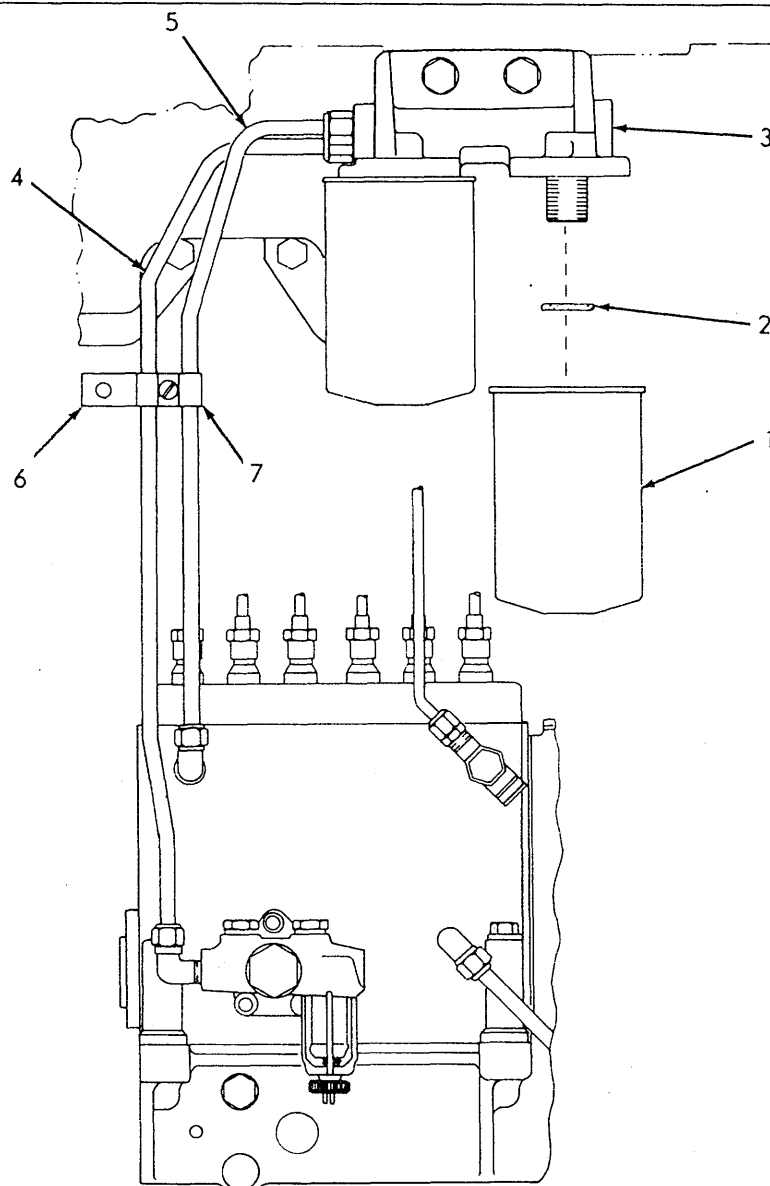
ITEM	PART NO.	QTY.	DESCRIPTION
1	74028945	2	ELEMENT, filter (Includes item 2)
2	-----	2	O-RING (Not serviced)
3	74392498	1	BASE ASSY., filter (Includes Plug and Inserts not serviced separately; and PLUGS indented below)
	70919134	2	PLUG, pipe, hex-hd., 1/8" NPT
	70919230	2	CAPSCREW, 1/2" NC x 1-3/8"
	70904208	2	LOCKWASHER, 1/2"
	70912007	2	WASHER, plain, 1/2"
4	74392482	1	TUBE ASSY. (Includes SLEEVES AND NUTS)
	70917810	2	NUT, Imperial, 3/8" tube
	70917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	70919005	1	ELBOW, Imperial, 3/8" tube, 3/8" NPT (at filter base)
	70920280	1	ELBOW, Imperial, 3/8" tube, 1/4" NPT (at transfer pump)

(Continued)

(Revised January 1976)

FUEL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	74392486	1	TUBE ASSY. (Includes SLEEVE and NUTS)
	70917810	2	NUT, Imperial, 3/8" tube
	70917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	70919005	1	ELBOW, Imperial, 3/8" tube, 3/8" NPT (at filter base)
	70920280	1	ELBOW, Imperial, 3/8" tube, 1/4" NPT (at fuel pump)
6	74392801	1	SUPPORT, clip
7	74394178	1	CLIP
	70912226	1	SCREW, fil. hd., 1/4" NC x 5/8"
	70904204	1	LOCKWASHER, 1/4"
	70910880	1	NUT, 1/4" NC



FUEL FILTER

T-78098

USAGE: Engines serial No. 21-11875 and up

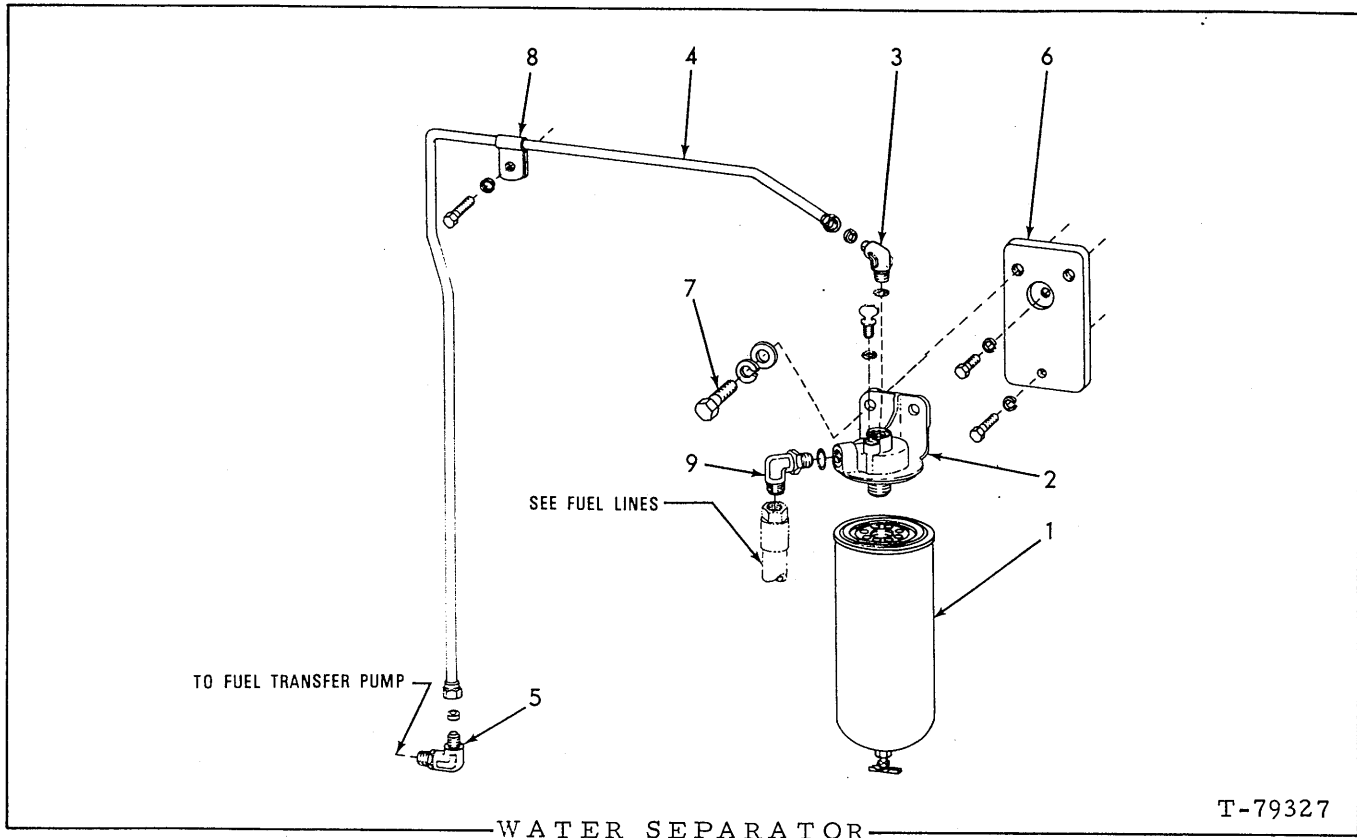
ITEM	PART NO.	QTY.	DESCRIPTION
1	74028945	2	ELEMENT, filter (Includes item 2)
2	-----	2	O-RING (Not serviced)
3	74393077	1	BASE ASSY., filter (Includes Inserts not serviced separately)
	70922577	2	PLUG, hex-hd., 3/8" tube, 9/16" str. thd. (Includes O-RING)
	70921885	2	O-RING, plug
	70915987	2	CAPSCREW, 1/2" NC x 1-1/2"
	70912441	2	LOCKWASHER, 1/2"
	70912007	2	WASHER, plain

(Continued)

(Revised January 1976)

FUEL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
4	74393765	1	TUBE
	70917810	2	NUT, Imperial, 3/8" tube
	70917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	70920280	1	ELBOW, Imperial, 3/8" tube, 1/4" NPT (at transfer pump)
	74359776	1	CONNECTOR (Includes O-RING)
	70921885	1	O-RING, connector
5	74393764	1	TUBE
	70917810	2	NUT, Imperial, 3/8" tube
	70917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	70920280	1	ELBOW, Imperial, 3/8" tube, 1/4" NPT (at fuel pump)
	74359776	1	CONNECTOR (Includes O-RING)
	70921885	1	O-RING, connector
6	74393090	1	SUPPORT, clip
7	74394178	1	CLIP
	70912226	1	SCREW, fil-hd., 1/4" NC x 5/8"
	70904204	1	LOCKWASHER, 1/4"
	70910880	1	NUT, 1/4" NC

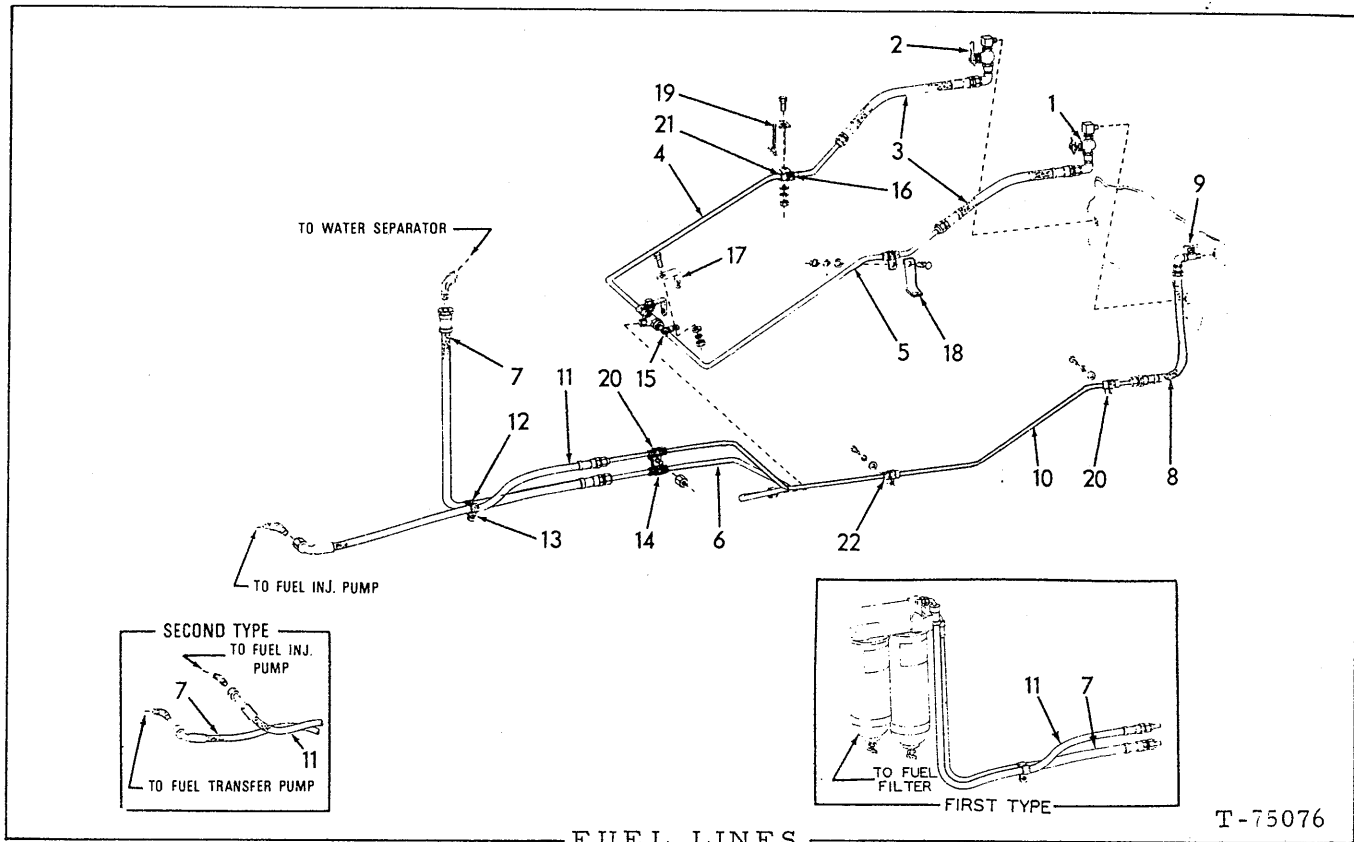


USAGE: Engines serial No. 21-13590 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	74394407	1	FILTER ASSY.
2	74395419	1	BASE ASSY. (Includes insert)
	74254873	1	WASHER
	74006998	1	SCREW, thumb
3	74023721	1	ELBOW ASSY. (Includes 1 O-RING 70921885)
	70921885	1	O-RING
4	74394624	1	TUBE
	70917807	2	SLEEVE, Imperial, 3/8" tube
	70917810	2	NUT, Imperial, 3/8" tube
5	70920280	1	ELBOW, 3/8" tube, 1/4" NPT
	70930349	1	NUT, locking, 1/4"
6	74394625	1	BRACKET
	70915408	1	CAPSCREW, 3/8" NC x 3/4"
	70916272	1	CAPSCREW, 3/8" NC x 1-1/4"
	70910287	2	LOCKWASHER, 3/8"
7	70916254	2	CAPSCREW, 7/16" NC x 1"
	70914498	2	WASHER, plain, 7/16"
	70914678	2	LOCKWASHER, 7/16"
8	70927384	1	CLAMP
9	70930804	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 5/8" NF male
			(Includes O-RING)
	70921885	1	O-RING

(Revised February 1978)

M E M O



FUEL LINES

T-75076

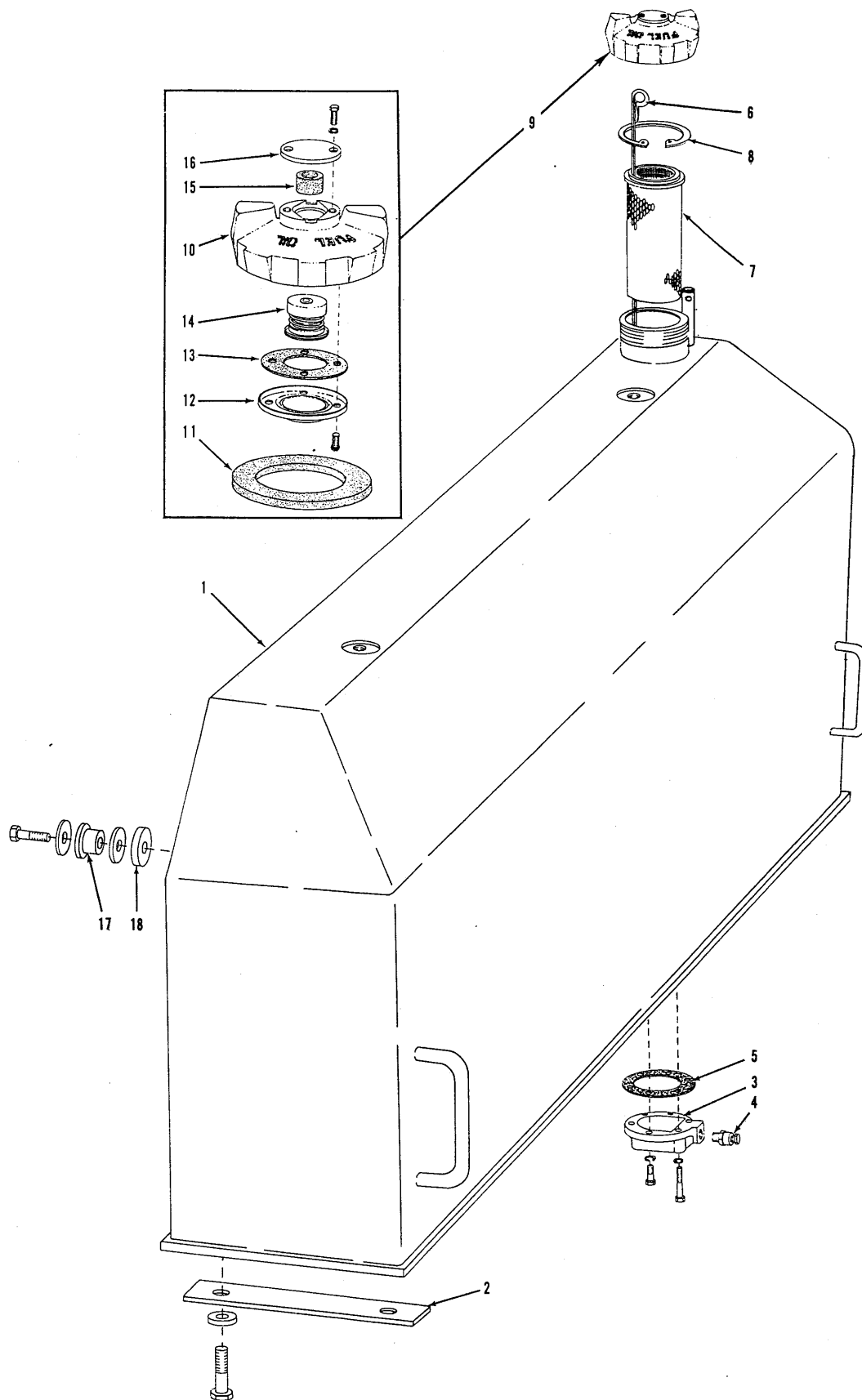
ITEM	PART NO.	QTY.	DESCRIPTION
1	70092727	2	COCK, fuel shut-off (Includes item 2)
	70915389	2	ELBOW, street, 90°, 3/8"NPT
2	70082189	2	HANDLE, fuel shut-off cock
3	70650967	2	HOSE, fuel supply, rear (See HOSE PARTS)
	70919206	2	ELBOW, flare type, 1/2" tube, 3/8"NPT male
4	70669177	1	TUBE ASSY., fuel supply, right rear (Includes nuts)
5	70664203	1	TUBE ASSY., fuel supply, left rear (Includes nuts)
6	70663995	1	TUBE ASSY., fuel supply, front (Includes nuts)
	70921472	1	TEE, union, flare type, 1/2" tube
7	70652026	1	HOSE, fuel supply, front (See HOSE PARTS)
	70919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT
	70674771	1	HOSE, fuel supply, front (See HOSE PARTS)
	70922872	1	ELBOW, flare type, 90°, 1/2" tube, 1/4"NPT male
	70696014	1	HOSE, fuel supply, front (Tractors unit #20149 and up)
8	70651999	1	HOSE, fuel return, rear (See HOSE PARTS)
	70921852	1	ELBOW, flare type, 90°, 3/8" tube, 1/4"NPT male
9	70914378	1	VALVE, shut-off, fuel return line
10	70663994	1	TUBE ASSY., fuel return (Includes nuts)
11	70652025	1	HOSE, fuel return, front (See HOSE PARTS)
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	70674770	1	HOSE, fuel return, front (See HOSE PARTS)
	70919135	1	ELBOW, flare type, 90°, 3/8" tube, 9/16"NF male end
12	70622992	1	CLIP, front fuel supply hose
13	70094467	1	CLIP, front fuel return hose

Replaces page 58 in 21-B Catalog 70696413 (Continued)
Printed in U.S.A.

(Revised July 1975)

FUEL LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
14	70097534	1	CLIP, front fuel supply tube
	70922262	1	CAPSCREW, 3/8"NC x 7/8"
	70910287	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain
15	70624508	2	CLIP, rear fuel supply tubes
	70916310	2	CAPSCREW, 1/2"NC x 1"
	70910244	2	WASHER, plain
	70904208	2	LOCKWASHER, 1/2"
	70911028	2	NUT, 1/2"NC
16	70650271	2	CLIP, rear fuel supply tube
	70916310	2	CAPSCREW, 1/2"NC x 1"
	70910244	2	WASHER, plain
	70904208	2	LOCKWASHER, 1/2"
	70911028	2	NUT, 1/2"NC
17	70664232	2	ANGLE, tube supporting
18	70653989	1	ANGLE, tube supporting
19	70669178	1	ANGLE, tube supporting
20	70055234	3	CLIP, fuel return tube
	70922262	2	CAPSCREW, 3/8"NC x 7/8"
	70910287	2	LOCKWASHER, 3/8"
	70911115	2	WASHER, plain
21	70093752	3	BOOT, tube protecting (1/2" tube)
22	70093751	3	BOOT, tube protecting (3/8" tube)

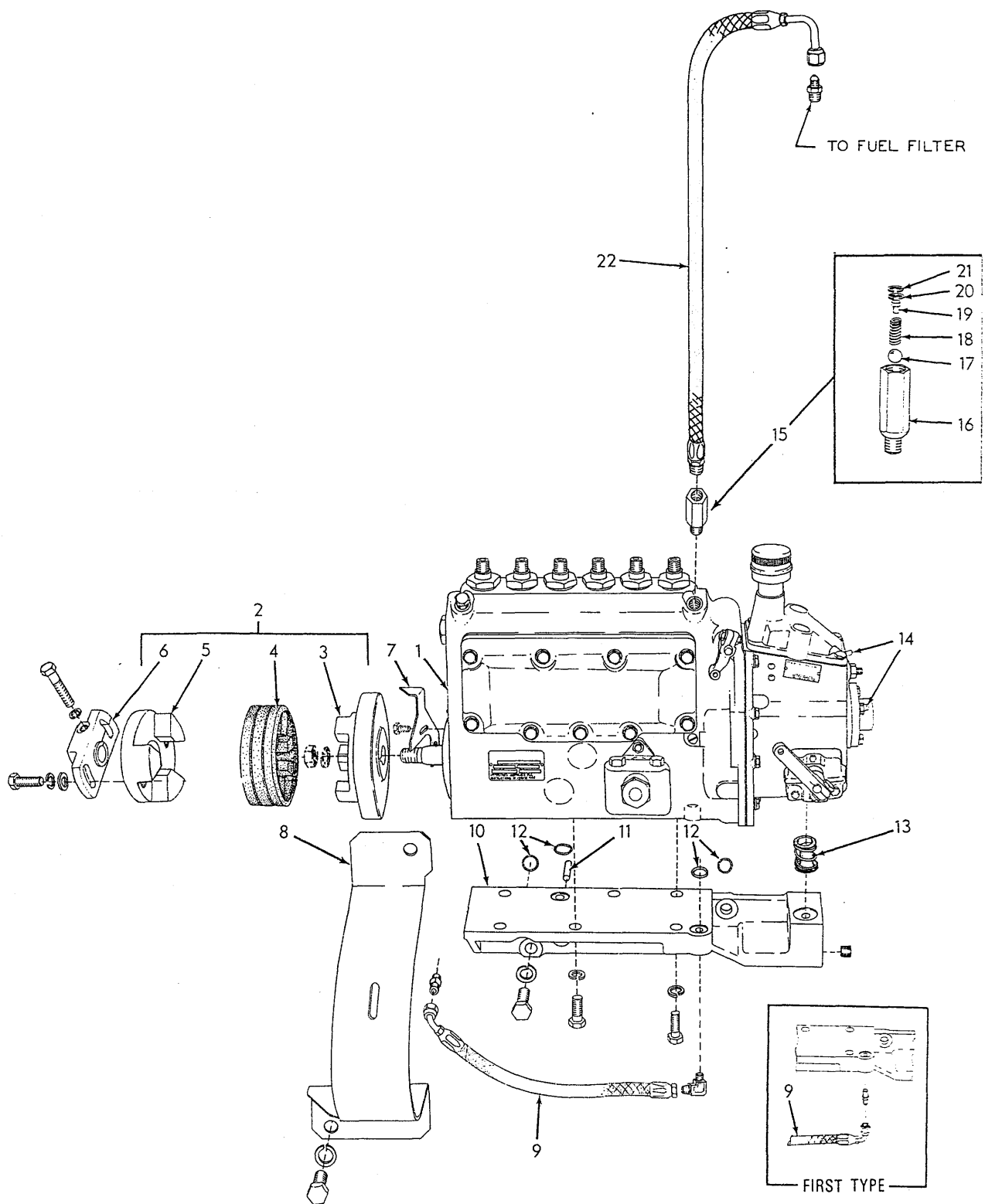


FUEL TANK

T-75077

FUEL TANK

ITEM	PART NO.	QTY.	DESCRIPTION
1	70664142	1	TANK, fuel
	70926381	8	CAPSCREW, Nylok, 3/4"NC x 2-3/4"
	70904369	8	LOCKWASHER, 3/4"
	70061689	8	WASHER, plain
2	70664166	4	PAD, tank mounting (fabric)
3	70662132	1	COVER, fuel tank drain
	70921076	4	CAPSCREW, 3/8"NC x 1-1/4"
	70920996	2	CAPSCREW, 3/8"NC x 2-1/4"
	70910287	6	LOCKWASHER, 3/8"
4	70633519	1	COCK, drain
5	70656227	1	GASKET, drain cover
6	70664075	1	GAUGE, fuel level
7	70650509	1	STRAINER, fuel filler
8	70654840	1	RING, snap, fuel strainer
9	70668252	1	CAP ASSEMBLY, fuel tank (Consists of items 10 thru 16)
10	-----	1	CAP only (Not serviced separately)
11	70668263	1	GASKET, cap
12	70668806	1	SEAT, relief valve
	70926699	4	SCREW, fil.-hd., brass, #10-24NC x 3/8"
13	70668804	1	GASKET, valve seat
14	70668805	1	VALVE ASSEMBLY, relief (Serviced only as a unit)
15	70664867	1	ELEMENT, air filter
16	70668262	1	COVER, tank cap
	70921181	2	SCREW ASSEMBLY, #10-24NC x 1/2" (Includes lockwasher)
17	70642441	4	SNUBBER, vibration
	70916422	4	CAPSCREW, 1/2"NF x 2-3/4"
	70092163	8	WASHER, plain
18	70061528	4	BOSS, spacing



FUEL INJECTION PUMP

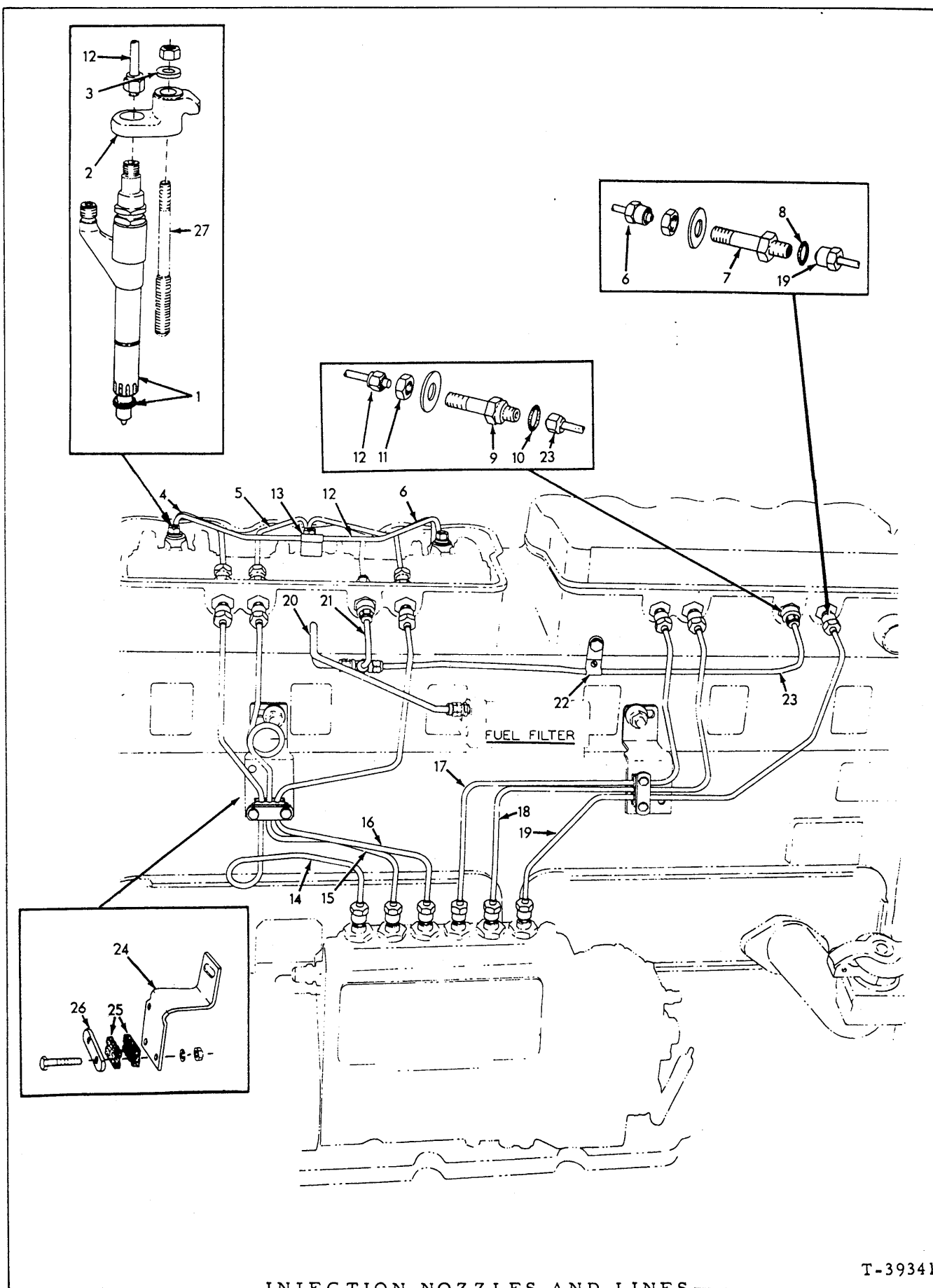
T-37151

FUEL INJECTION PUMP

USAGE: Engines prior to serial No. 21-11088

ITEM	PART NO.	QTY.	DESCRIPTION
1	74061637	1	PUMP ASSY., injection (Includes items 2 and 7)
	70919228	4	CAPSCREW, 7/16"NC x 1-1/8"
	70918801	2	CAPSCREW, 7/16"NC x 1-5/8"
	70904207	6	LOCKWASHER, 7/16"
2	74390054	1	COUPLING ASSY., pump drive (Consists of items 3 thru 6) (Order COUPLING ASSY. 74394009)
3	74059012	1	HUB, coupling
	70905845	1	KEY, #A woodruff, 1/4" x 7/8"
4	74059013	1	SPIDER, coupling (rubber)
5	74059014	1	FLANGE, coupling
6	74390055	1	CLAMP, coupling
	70916385	1	CAPSCREW, 3/8"NF x 2" (clamping)
	70916271	2	CAPSCREW, 3/8"NC x 1" (attaching)
	70904206	3	LOCKWASHER, 3/8"
	74059015	2	WASHER, plain
7	74379077	1	POINTER, timing
8	74379076	1	GUARD, pump flywheel
	70916310	1	CAPSCREW, 1/2"NC x 1"
	70904208	1	LOCKWASHER, 1/2"
9	74393188	1	HOSE ASSY., oil supply (See HOSE PARTS)
	70919778	1	CONNECTOR, flare type, 5/16" tube, 1/4"NPT male
	70919767	1	CONNECTOR, flare type, 5/16" tube, 1/8"NPT male
10	74376529	1	BRACKET, pump mounting
	70918850	1	PLUG, pipe, hex-socket, 1/4"NPT
	70916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	LOCKWASHER, 1/2"
11	74253286	2	PIN, dowel, mounting bracket
12	74255665	4	O-RING, mounting bracket
13	74379038	1	COUPLING, oil drain, pump to bracket
14	74355843	3	SEAL, anti-tampering
15	74337015	1	VALVE ASSY., pressure relief (Consists of items 16 thru 21)
16	-----	1	BODY, relief valve (Not serviced separately)
17	74337022	1	BALL, relief valve
18	74337023	1	SPRING, relief valve
19	74337019	1	STOP, relief valve
20	74255017	1	E-RING, relief valve stop
21	74255020	1	RING, snap, relief valve
22	74386770	1	HOSE ASSY., fuel return (Engines prior to #21-11699) (See HOSE PARTS)
	74393166	1	HOSE ASSY., fuel return (Engine #21-11699 and up) (See HOSE PARTS)
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male

(Revised February 1978)



INJECTION NOZZLES AND LINES

T-39341

INJECTION NOZZLES AND LINES

USAGE: Engines prior to serial No. 21-11088

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	6	HOLDER ASSY., nozzle (See page 67)
2	74387385	6	CLAMP, nozzle holder
	74115287	6	NUT, 3/8"NF
3	74020145	6	WASHER, nozzle holder clamp
4	74390093	2	TUBE ASSY., fuel injection, internal (#1 and #4 cyl.)
5	74390094	2	TUBE ASSY., fuel injection, internal (#2 and #5 cyl.)
6	74390095	2	TUBE ASSY., fuel injection, internal (#3 and #6 cyl.)
7	74386601	6	CONNECTOR, injection line
	70919303	6	NUT, jam, 9/16"NF
	70914659	6	WASHER, plain, SAE std., 9/16"
8	70923645	6	☐ O-RING, injection line connector
9	74386602	2	CONNECTOR, fuel return line
10	70923645	2	☐ O-RING, return line connector
11	74377267	2	NUT, return line connector (1/2"-24)
	70914659	2	WASHER, plain, SAE std., 9/16"
12	74386433	2	MANIFOLD ASSY., fuel return (Includes NUTS AND SLEEVES indented below)
	70917809	8	NUT, Imperial, 1/4" tube
	74255956	8	☐ SLEEVE, Imperial, 1/4" tube (rubber)
13	74255179	2	CLIP, manifold supporting
14	74390085	1	TUBE ASSY., fuel injection, external (#1 cyl.)
15	74390086	1	TUBE ASSY., fuel injection, external (#2 cyl.)
16	74390087	1	TUBE ASSY., fuel injection, external (#3 cyl.)
17	74390088	1	TUBE ASSY., fuel injection, external (#4 cyl.)
18	74390089	1	TUBE ASSY., fuel injection, external (#5 cyl.)
19	74390090	1	TUBE ASSY., fuel injection, external (#6 cyl.)
20	74387301	1	TUBE ASSY., fuel return (Includes NUTS and SLEEVES indented below)
	70917809	2	NUT, Imperial, 1/4" tube
	70917806	2	SLEEVE, Imperial, 1/4" tube (rubber)
	70919797	1	TEE, Imperial, 1/4" tube
	70920242	1	CONNECTOR, Imperial, 1/4" tube, 1/4"NPT male
21	74376718	1	TUBE, fuel return, front
	70917809	2	NUT, Imperial, 1/4" tube
	70917806	2	SLEEVE, Imperial, 1/4" tube (rubber)

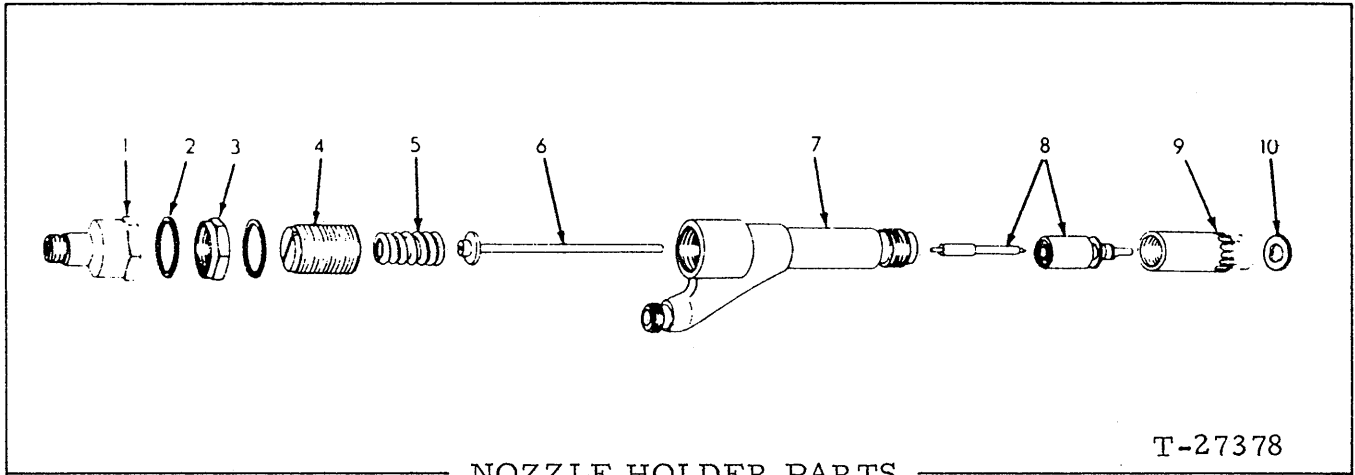
Each
includes
nuts

Each
includes
nuts

(Continued)

INJECTION NOZZLES AND LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
22	74386617	1	CLIP, fuel return tube
	70901171	1	SCREW, machine, #10-24NC x 3/8"
	70904203	1	LOCKWASHER, #10
	70901310	1	NUT, #10-24NC
	70915408	1	CAPSCREW, 3/8"NC x 3/4"
	70904206	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
23	74379738	1	TUBE, fuel return, rear
	70917809	2	NUT, Imperial, 1/4" tube
	74255956	2	SLEEVE, Imperial, 1/4" tube (rubber)
24	74388148	2	BRACKET, supporting, injection lines
25	74507359	4	SPACER, injection lines (rubber)
26	74507415	2	PLATE, clamping, rear injection lines
	70918794	4	CAPSCREW, 1/4"NC x 1-3/8"
	70904204	4	LOCKWASHER, 1/4"
	70910880	4	NUT, 1/4"NC
27	-----	-	STUD, nozzle holder clamp (See VALVE OPERATING MECHANISM)



NOZZLE HOLDER PARTS

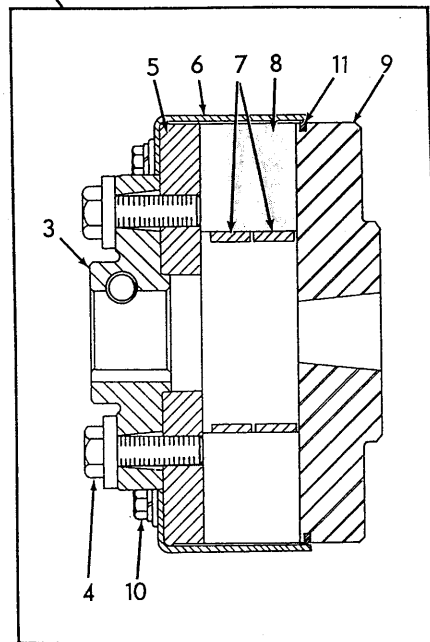
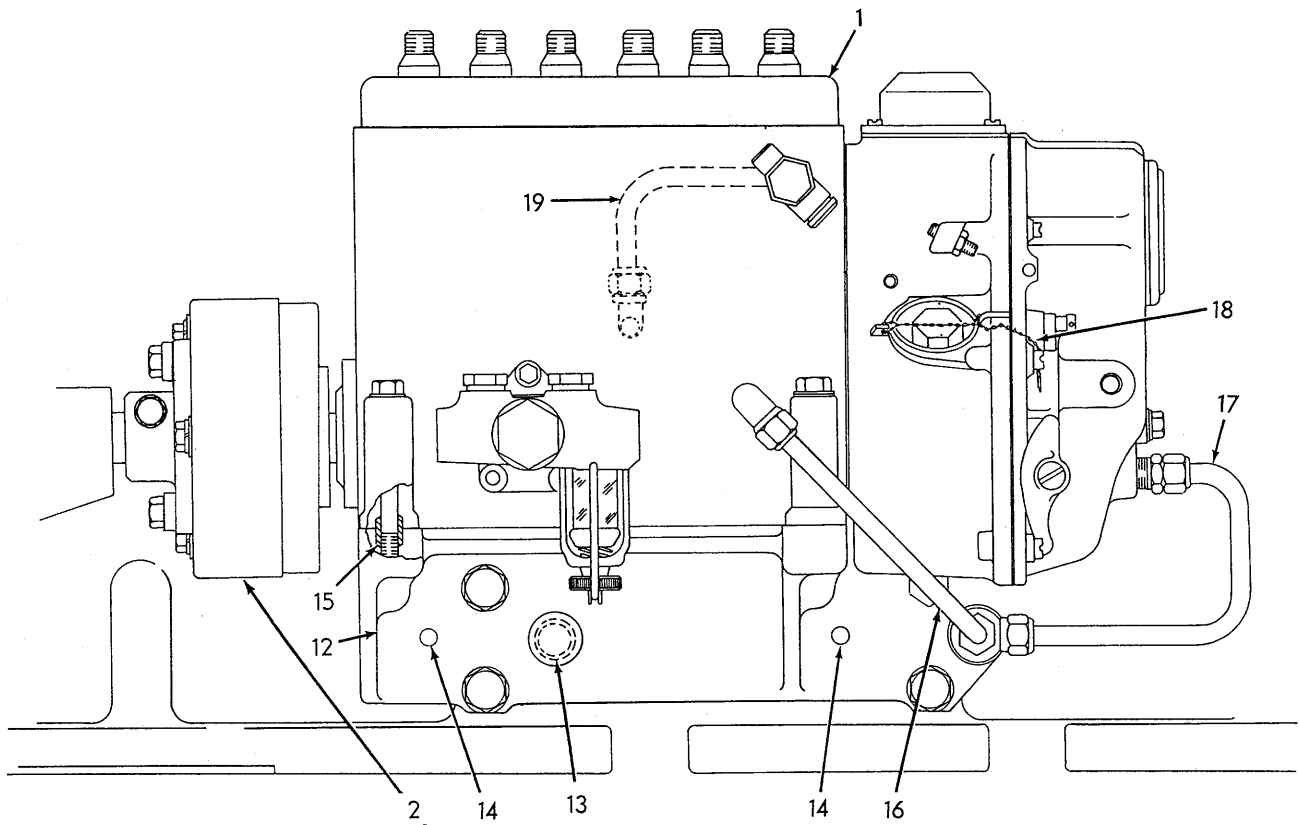
USAGE: See page 65 and 71

*Engines prior to serial No. 21-10855; also
serial No. 21-12472 and up

**Engines serial No. 21-10855 thru 21-12471

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
<u>NOTE:</u> Quantities are for one (1) Holder Assy. only				
-	74392121	1	-	HOLDER ASSY. } Not serviced. Order HOLDER
-	74392304	-	1	HOLDER ASSY. } ASSY. 74062107 and item 8.
-	74062107	1	1	HOLDER ASSY. (Includes items 1 thru 7 and 9)
1	74396054	1	1	CAP
2	74511243	2	2	GASKET, cap nut
3	74517266	1	1	NUT, locking
4	74378033	1	1	SCREW, adjusting
5	74380652	1	1	SPRING
6	74391240	1	1	SPINDLE
7	-----	1	1	BODY (Not serviced separately)
8	-----	1	-	NOZZLE ASSY. (Long-sac type)
				(Remove insert 74392576 and use
				NOZZLE 74390006)
	74390006	-	1	NOZZLE ASSY. (Short-sac type)
				(Includes item #10)
9	74392057	1	1	NUT, nozzle retaining
10	74378031	1	1	GASKET, nozzle

(Revised August 1979)



FUEL INJECTION PUMP (Robert Bosch - Germany)

T-75868

FUEL INJECTION PUMP
(Robert Bosch-Germany)

USAGE: Engines serial No. 21-11088 and up

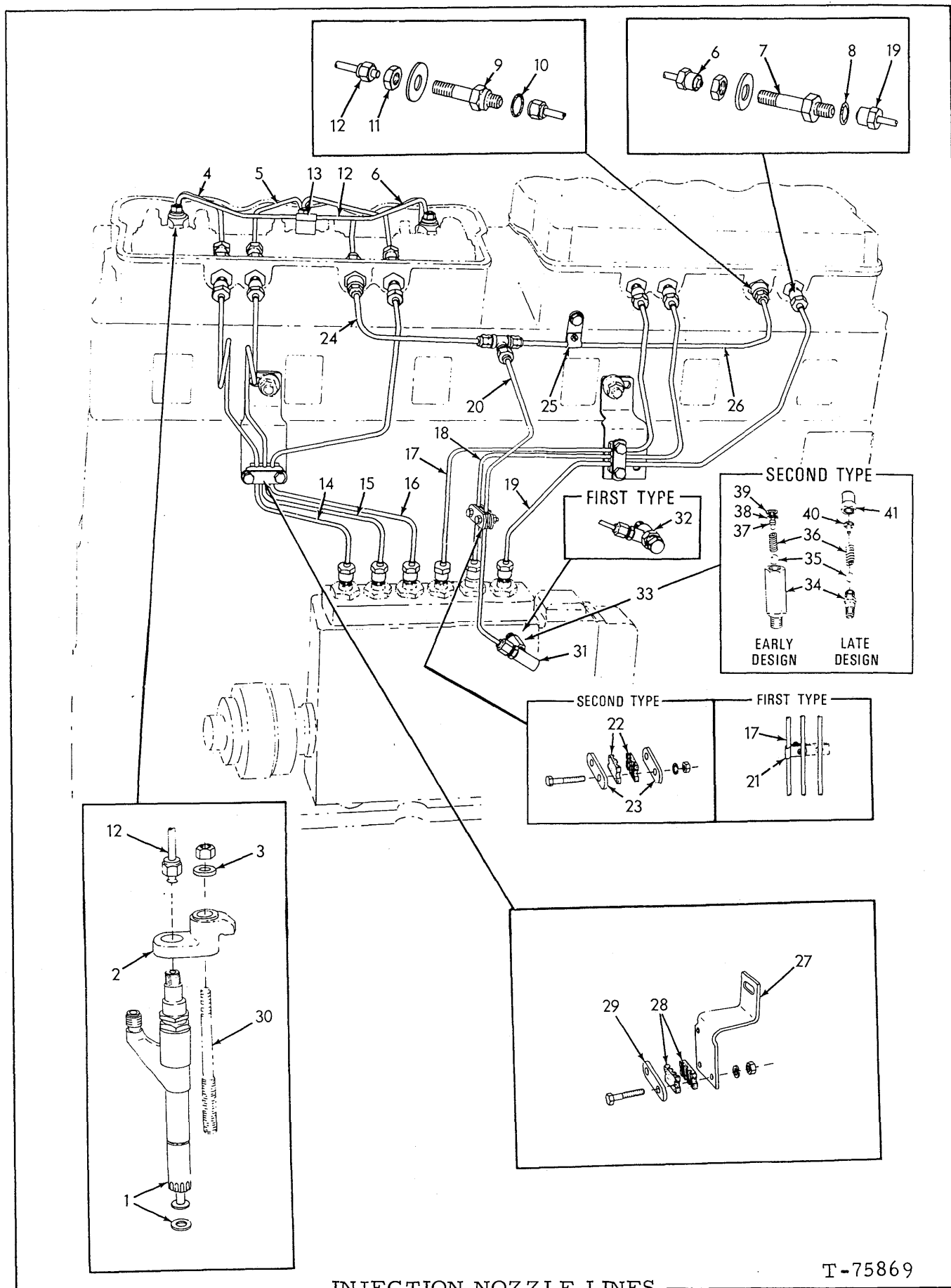
ITEM	PART NO.	QTY.	DESCRIPTION
1	74061637	1	PUMP KIT, injection (Includes item 2)(Service replacement for original factory adjusted PUMP ASSEMBLIES 74392777, 74393891, 74394017 and 74394745)
	70919015	4	CAPSCREW, 3/8"NC x 3-1/2"
	70904206	4	LOCKWASHER, 3/8"
	70913544	4	WASHER, plain, 3/8"
	70905845	1	KEY, woodruff, 1/4" x 7/8"
2	74392350	1	COUPLING (Includes items 3 thru 10)(Engines prior to #21-12006)(Order COUPLING ASSY. 74394009)
	74394009	1	COUPLING (Includes items 3 thru 11)(Engines #21-12006 and up)
3	74394318	1	CLAMP, hub (For engines prior to #21-12006, also order 1 CAPSCREW 70927322, 1 LOCKWASHER 70910287 and item 4)
	70927322	1	CAPSCREW, 3/8"NF x 2" } Clamping
	70910287	1	LOCKWASHER, 3/8" }
4	70921076	2	CAPSCREW, 3/8"NC x 1-1/4"
	70677006	2	WASHER, plain
5	74060643	1	FLANGE, engine side
6	74061040	1	COVER, flange (For engines prior to #21-12006, also order item 9 and 11)
7	74060645	2	INSERT
8	74060646	6	INSERT (rubber)
9	74061041	1	HUB (For engines prior to #21-12006, also order items 6 and 11)
10	70915343	3	CAPSCREW, 1/4"NC x 5/8"
	70904204	3	LOCKWASHER, 1/4"
	70911114	3	WASHER, plain
11	74061042	1	SHIELD, dust (For engines prior to #21-12006, also order item 6 and 9)
12	74394301	1	BRACKET (For engines prior to #21-12724, also order 2 DOWEL 74394302)
	70916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	LOCKWASHER, 1/2"
13	74255665	2	O-RING
14	74253286	2	PIN, dowel
15	74392630	2	DOWEL, hollow (Engines prior to #21-12724)
	74394302	2	DOWEL, hollow (Engines #21-12724 and up)
16	74392494	1	TUBE ASSY. (Includes SLEEVES and NUTS)
	70917810	2	NUT, Imperial, 3/8" tube
	70917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	70920280	1	ELBOW, Imperial, 3/8" tube, 1/4"NPT (at pump)
	70921841	1	TEE, service, Imperial, 3/8" tube, 1/4"NPT (at bracket)

(Continued)

FUEL INJECTION PUMP (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	74392492	1	TUBE ASSY. (Includes SLEEVES and NUTS)
	70917810	2	NUT, Imperial, 3/8" tube
	70917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	70920279	1	CONNECTOR, Imperial, 3/8" tube, 1/4"NPT (at governor).
18	74355843	1	SEAL, anti-tampering
19	74394306	1	TUBE ASSY., lube oil feed (Includes SLEEVES and NUTS)
	70917810	2	NUT, Imperial, 3/8" tube
	70917807	2	SLEEVE, Imperial, 3/8" tube (rubber)
	70920790	1	ELBOW, Imperial, 3/8" tube, 1/8"NPT (at pump)
	70927139	1	ELBOW, Imperial, 3/8" tube, 1/4"NPT female
	70913112	1	NIPPLE, pipe, hex, 1/4" x 1/4" } At block

MEMO



INJECTION NOZZLE LINES
(Robert Bosch-Germany)

(Revised February 1978)

T-75869

https://truckmanualshub.com/
INJECTION NOZZLE LINES
 (Robert Bosch-Germany)

USAGE: Engines serial No. 21-11088 and up

ITEM	PART NO.	QTY.	DESCRIPTION	
1	-----	6	HOLDER ASSY., nozzle (See page 67)	
2	74387385	6	CLAMP, nozzle holder	
	74115287	6	NUT, 3/8"NF	
3	74379572	6	WASHER, nozzle holder clamp	
4	74390093	2	TUBE ASSY., fuel injection, internal (#1 and #4 cyl.)	Each includes nuts
5	74390094	2	TUBE ASSY., fuel injection, internal (#2 and #5 cyl.)	
6	74390095	2	TUBE ASSY., fuel injection, internal (#3 and #6 cyl.)	
7	74386601	6	CONNECTOR, injection line	
	70919303	6	NUT, jam, 9/16"NF	
	70914659	6	WASHER, plain, SAE std., 9/16"	
8	70923645	6	O-RING, injection line connector	
9	74386602	2	CONNECTOR, fuel return line	
10	70923645	2	O-RING, return line connector	
11	74377267	2	NUT, return line connector (1/2"-24)	
	70914659	2	WASHER, plain, SAE std., 9/16"	
12	74396020	2	MANIFOLD ASSY., fuel return (Includes nuts and sleeves)	
13	74255179	2	CLIP, manifold supporting	
14	74392384	1	TUBE ASSY., fuel injection, external (#1 cylinder)	Each includes nuts
15	74392385	1	TUBE ASSY., fuel injection, external (#2 cylinder)	
16	74392386	1	TUBE ASSY., fuel injection, external (#3 cylinder)	
17	74392387	1	TUBE ASSY., fuel injection, external (#4 cylinder)	
18	74392388	1	TUBE ASSY., fuel injection, external (#5 cylinder)	
19	74392389	1	TUBE ASSY., fuel injection, external (#6 cylinder)	
20	74392445	1	TUBE, fuel return (Engines prior to #21-11875)	Used with item 32
	74394177	1	TUBE, fuel return (Engines #21-11875 and up)	
	74394976	1	TUBE, fuel return (Used with item 33)	
	70917809	2	NUT, Imperial, 1/4" tube	
	74255956	2	SLEEVE, Imperial, 1/4" tube (Viton-High temperature)	
	70919797	1	TEE, Imperial, 1/4" tube	
	70919800	1	CONNECTOR, Imperial (Used with item 32)	
	70920242	1	CONNECTOR, Imperial (Used with item 33)	
21	74361829	1	CLAMP, return tube	Engines prior to #21-11875
	70912226	1	SCREW, fil. hd., 1/4"NC x 5/8"	
	70904204	1	LOCKWASHER, 1/4"	
	70910880	1	NUT, 1/4"NC	

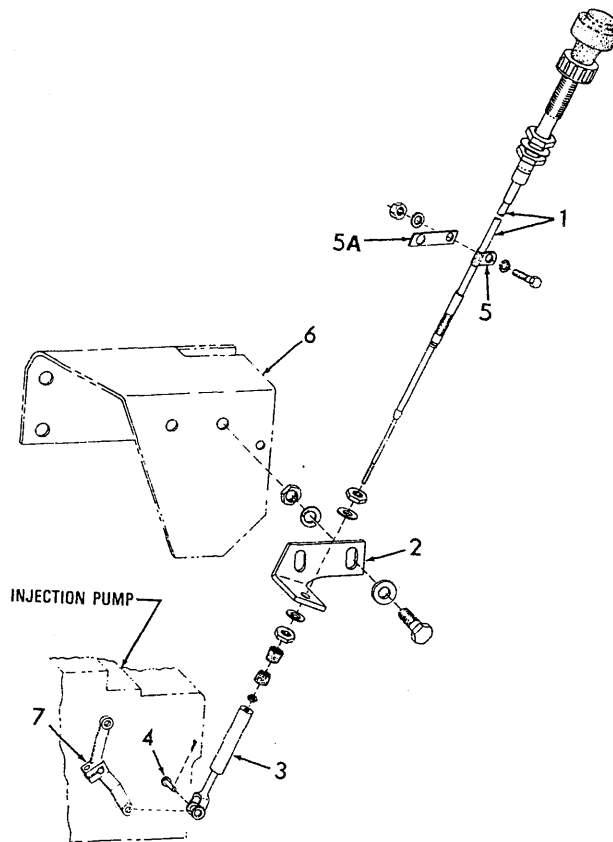
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(Revised February 1978)

INJECTION NOZZLE LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
22	74507358	2	SPACER	} Engine #21-11875 and up
23	74507414	2	PLATE	
	70918794	2	SCREW, fil-hd., 1/4"NC x 5/8"	
	70904204	2	LOCKWASHER, 1/4"	
	70910880	2	NUT, 1/4"NC	
24	74392789	1	TUBE, fuel return, front	
	70917809	2	NUT, Imperial, 1/4" tube	
	74255956	2	SLEEVE, Imperial, 1/4" tube (Viton-High temperature)	
25	74386617	1	CLIP, fuel return tube	
	70901171	1	SCREW, machine, #10-24NC x 3/8"	
	70904203	1	LOCKWASHER, #10	
	70901310	1	NUT, #10-24NC	
	70915408	1	CAPSCREW, 3/8"NC x 3/4"	
	70904206	1	LOCKWASHER, 3/8"	
	70911115	1	WASHER, plain, SAE std., 3/8"	
26	74392788	1	TUBE, fuel return, rear	
	70917809	2	NUT, Imperial, 1/4" tube	
	74255956	2	SLEEVE, Imperial, 1/4" tube (Viton-High temperature)	
27	74388148	2	BRACKET, supporting, injection lines	
28	74507359	4	SPACER, injection lines (rubber)	
29	74507415	2	PLATE, clamping, rear injection lines	
	70918794	4	CAPSCREW, 1/4"NC x 1-3/8"	
	70904204	4	LOCKWASHER, 1/4"	
	70910880	4	NUT, 1/4"NC	
30	-----	6	STUD, nozzle holder clamp (See VALVE OPERATING MECHANISM)	
31	70931195	1	TEE (Used with items 33 and 40)	
32	74060154	1	VALVE (First type)	
33	74395936	1	VALVE ASSY. (Includes items 34, 35, 36, 40 and 41)	
34	-----	1	BODY (Not serviced separately)	
35	74337022	1	BALL	
36	74337023	1	SPRING	
37	-----	1	STOP (Not serviced. Order item 33)	} Early design
38	74255017	1	E-RING	
39	74255020	1	RING, snap	
40	74395855	1	RETAINER	} Late design
41	74395935	1	NUT	

(Revised February 1978)



T-75866

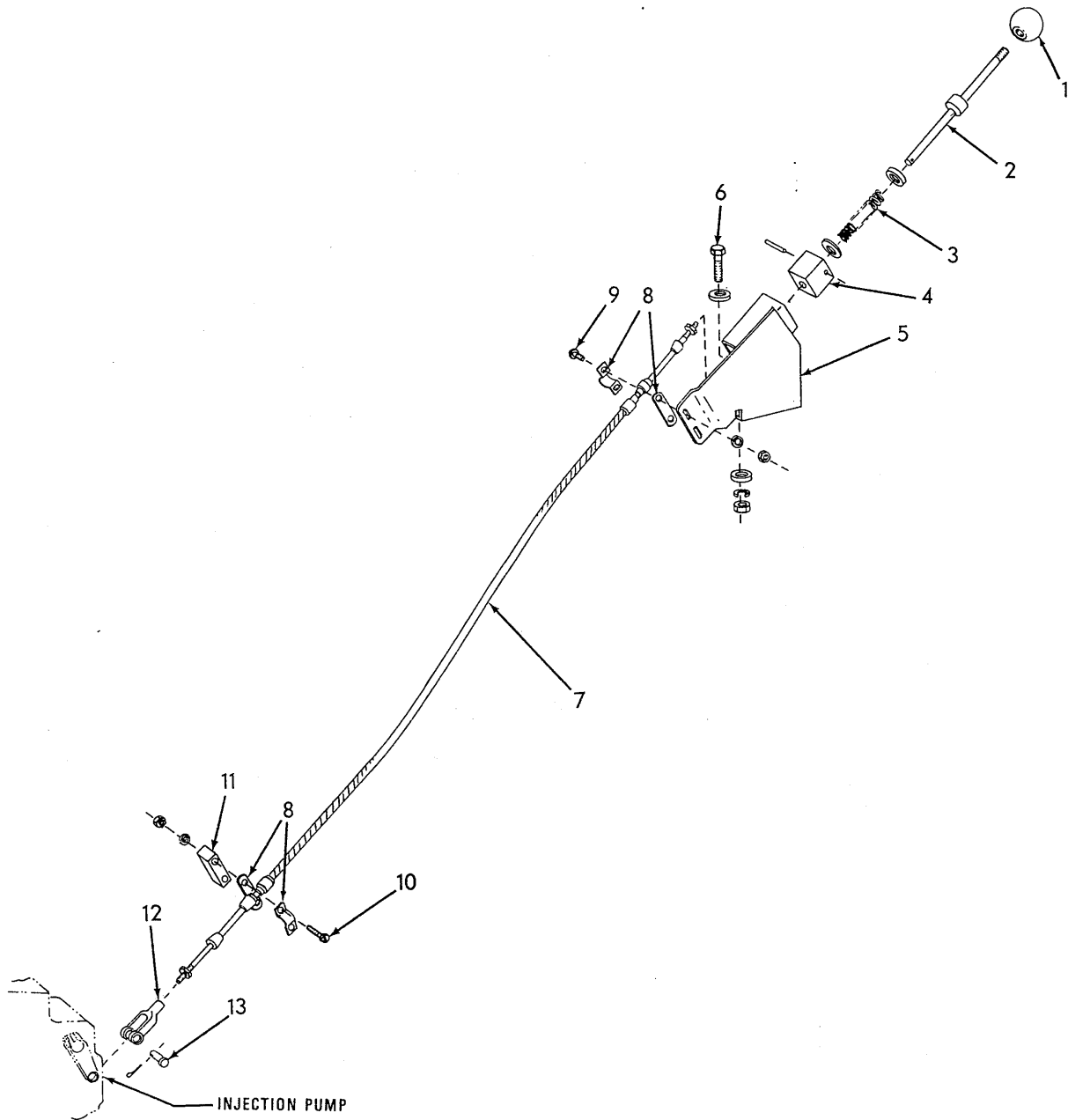
ENGINE SHUT-OFF CONTROL

USAGE: Tractors serial No. 10S17001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	70665458	1	CABLE ASSY., push-pull (Includes mounting washers and nuts)
2	70665457	1	ANGLE, cable supporting (Tractors prior to unit #17565 incl. #17569)
	70674754	1	ANGLE, cable supporting Tractors unit #17565 and up excl. #17569)
	70921076	2	CAPSCREW, 3/8"NC x 1-1/4"
	70677006	2	WASHER, plain
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
3	70196606	1	CLEVIS, control cable (Tractors prior to unit #17565 incl. #17569)
	70674753	1	ROD, shut-off (Tractors unit #17565 excl. #17569)
4	70628738	1	PIN, yoke, cable clevis
	70900970	1	PIN, cotter, 1/16" x 1/2"
5	70639314	1	CLIP (3/8" diam., 13/32" bolt hole)
	70927400	1	CAPSCREW, 3/8"NC x 5/8"
	70910287	1	LOCKWASHER, 3/8"
	70927384	1	CLIP (3/8" diam., 17/32" bolt hole)
	70922763	1	CAPSCREW, 3/8"NC x 1"
	70677006	1	WASHER, plain
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
5A	70644162	1	STRAP
6	-----	1	BRACKET (See THROTTLE CONTROL)
7	74393260	1	LEVER
	70916277	1	CAPSCREW, 5/16"NC x 5/8"
	70904205	1	LOCKWASHER, 5/16"

Replaces page 73 in 21-B Parts Catalog 70696413
Printed in U.S.A. 73

(Revised July 1975)



ENGINE SHUT-OFF CONTROL (First type)

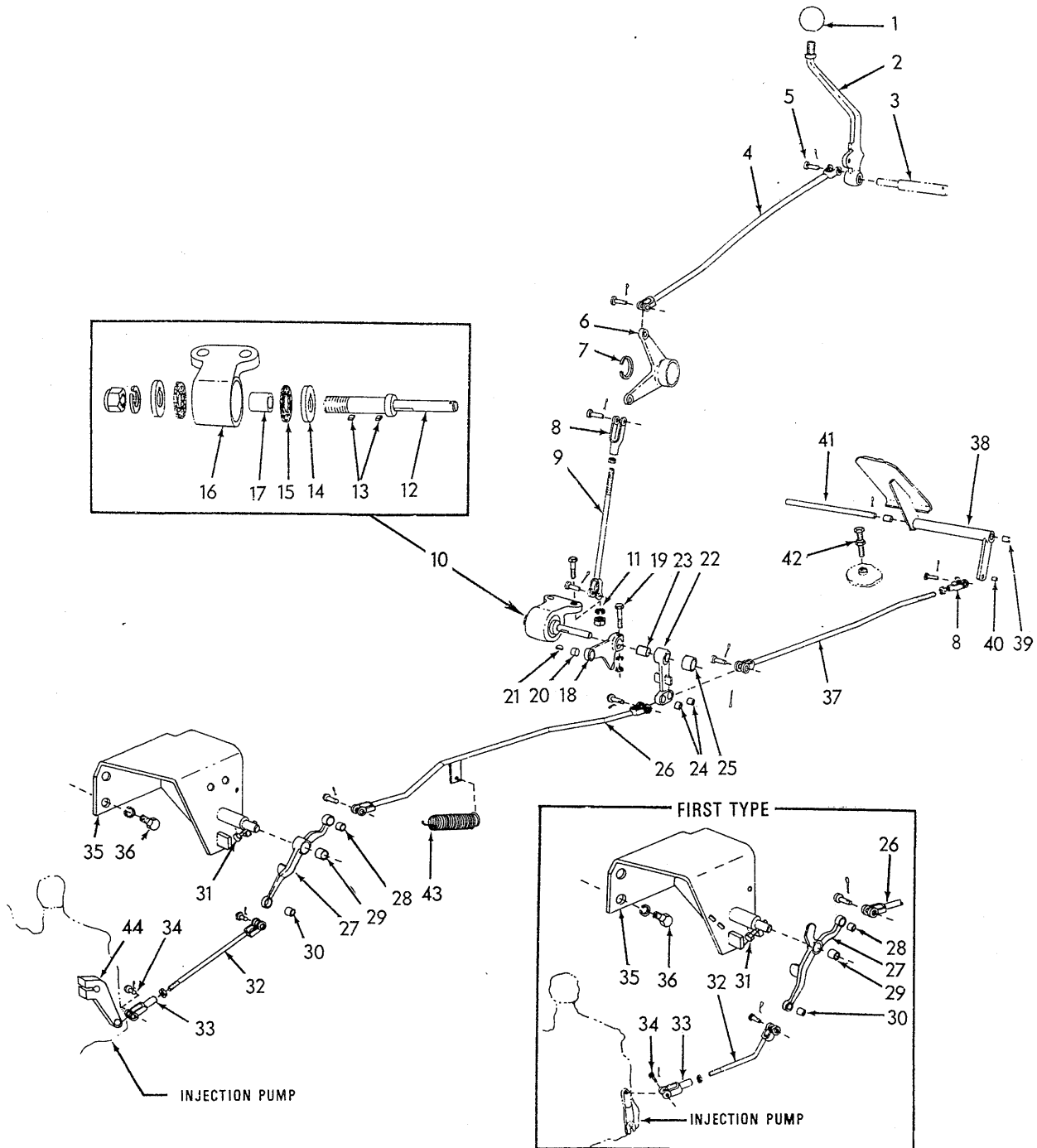
T-74966

ENGINE SHUT-OFF CONTROL

USAGE: Tractors prior to serial No. 10S17001

ITEM	PART NO.	QTY.	DESCRIPTION
1	70659075	1	KNOB, shut-off rod
2	70667218	1	ROD, shut-off
3	70664832	1	SPRING, shut-off rod
	70044973	1	WASHER, plain (upper)
	70900817	1	WASHER, plain
4	70667469	1	BLOCK, connecting, cable to rod
	70919761	1	PIN, spring, 1/8" x 1-1/4"
5	70667466	1	BRACKET, guide and support, control
6	70916272	2	CAPSCREW, 3/8"NC x 1-1/4"
	70044973	4	WASHER, plain
	70904206	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
7	70664818	1	CABLE ASSEMBLY, push-pull (Serviced only as a unit)
8	70662427	2	CLAMP ASSEMBLY, cable (Includes shim)
9	70901174	2	SCREW, machine, 3/16"NC x 3/4"
10	70916529	2	SCREW, machine, 3/16"NC x 2"
	70910243	4	WASHER, plain, SAE std., 3/16"
	70926673	4	NUT, elastic stop, 3/16"NC
11	70667253	1	BLOCK, spacing, cable clamp
12	70196606	1	CLEVIS, control cable
13	70628738	1	PIN, yoke, cable clevis
	70900970	1	PIN, cotter, 1/16" x 1/2"

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



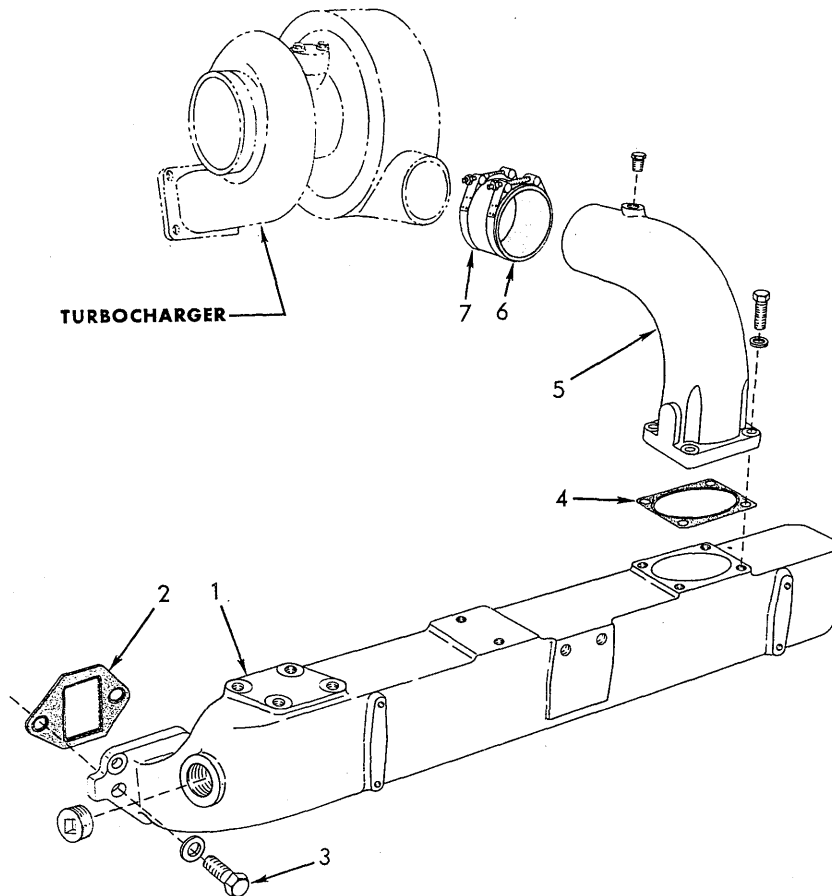
<https://truckmanualshub.com/>
THROTTLE CONTROL

ITEM	PART NO.	QTY.	DESCRIPTION
1	70090020	1	KNOB, operating lever
2	70631975	1	LEVER operating
3	-----	1	SHAFT, operating lever (See STEERING LEVERS AND LINKAGE)
4	70666219	1	ROD, upper
5	70078810	8	PIN, yoke, control rod
	70900942	8	PIN, cotter, 3/32" x 5/8"
6	70081094	1	BELLCRANK, upper rod
7	70052225	1	RING, snap, bellcrank retaining
8	70628736	2	YOKE, control rod
9	70653996	1	ROD, intermediate upper
	70911048	1	NUT, jam, 3/8"NF
10	70633152	1	FRICTION ASSEMBLY (Includes items 12 thru 17)
11	70920574	2	
	70904208	2	
	70911028	2	
	70900806	1	
12	70631682	1	SHAFT, friction
	70904369	1	LOCKWASHER, 3/4"
	70916591	1	NUT, elastic stop, 3/4"NF
13	70632716	2	KEY, friction washer
14	70632710	2	WASHER, friction
15	70632747	2	DISC, friction
16	70632766	1	HOUSING ASSEMBLY, friction (Includes item 17)
17	70632752	1	BUSHING, friction housing
18	70631494	1	LEVER ASSEMBLY, friction shaft (Includes item 20)
19	70920660	1	
	70910286	1	
	70911025	1	
20	70624584	1	BUSHING, friction shaft lever
21	70632756	1	KEY, friction shaft lever
22	70666795	1	LEVER ASSEMBLY, intermediate lower rod (Includes items 23 and 24)
23	70631476	1	BUSHING, intermediate lower rod lever (large)
24	70624584	2	BUSHING, intermediate lower rod lever (small)
25	70610563	1	SPACER, lever

(Continued)

THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	70666223	1	ROD, intermediate, lower (Tractors prior to unit #17197)
	70676043	1	ROD, intermediate, lower (Tractors unit #17197 thru #17573)
	70677708	1	ROD, intermediate, lower (Tractors unit #17574 and up)
27	70642165	1	BELLCRANK ASSY., lower rod (Tractors prior to unit #17565 incl. #17569)
	70674774	1	BELLCRANK ASSY., lower rod (Tractors unit #17565 and up excl. #17569)
			Each includes items 28, 29 and 30
28	70624584	1	BUSHING, bellcrank (3/8" long)
29	70631476	1	BUSHING, bellcrank (7/8" long)
30	70624585	1	BUSHING, bellcrank (1/4" long)
31	70634650	1	CAPSCREW, lever stop (3/8"NC x 1-1/2")
	70911034	1	NUT, jam, 3/8"NC
32	70644633	1	ROD, lower (Tractors prior to unit #17565 incl. #17569)
	70674755	1	ROD, lower (Tractors unit #17565 and up excl. #17569)
	70910267	1	NUT, jam, 1/4"NF
33	70628737	1	YOKE, lower rod
34	70628738	2	PIN, yoke, lower rod
	70900970	2	PIN, cotter, 1/16" x 1/2"
35	70667241	1	BRACKET, supporting, control linkage (Tractors prior to unit #17001)
	70665462	1	BRACKET, supporting, control linkage (Tractors unit #17001 and up)
36	70910244	1	WASHER, plain, SAE std., 1/2"
	70900806	1	PIN, cotter, 1/8" x 1"
	70928873	3	CAPSCREW, Nylok, 1/2"NC x 1"
	70912441	3	LOCKWASHER, 1/2"
37	70666221	1	ROD, decelerator
	70911048	1	NUT, jam, 3/8"NF
38	70631488	1	PEDAL ASSY., decelerator (Includes items 39 and 40)
39	70063222	2	BUSHING, decelerator pedal (large)
40	70624584	1	BUSHING, decelerator pedal (small)
41	70630777	1	SHAFT, decelerator pedal
	70918111	1	PIN, spring, 1/8" x 1"
42	70927546	1	CAPSCREW, pedal stop (1/2"NC)
	70911035	1	NUT, jam, 1/2"NC
43	70043881	1	SPRING, retracting, intermediate rod
44	74393259	1	LEVER ASSY. (Tractors unit #17001 and up)
	70916277	1	CAPSCREW, 5/16"NC x 5/8"
	70904205	1	LOCKWASHER, 5/16"

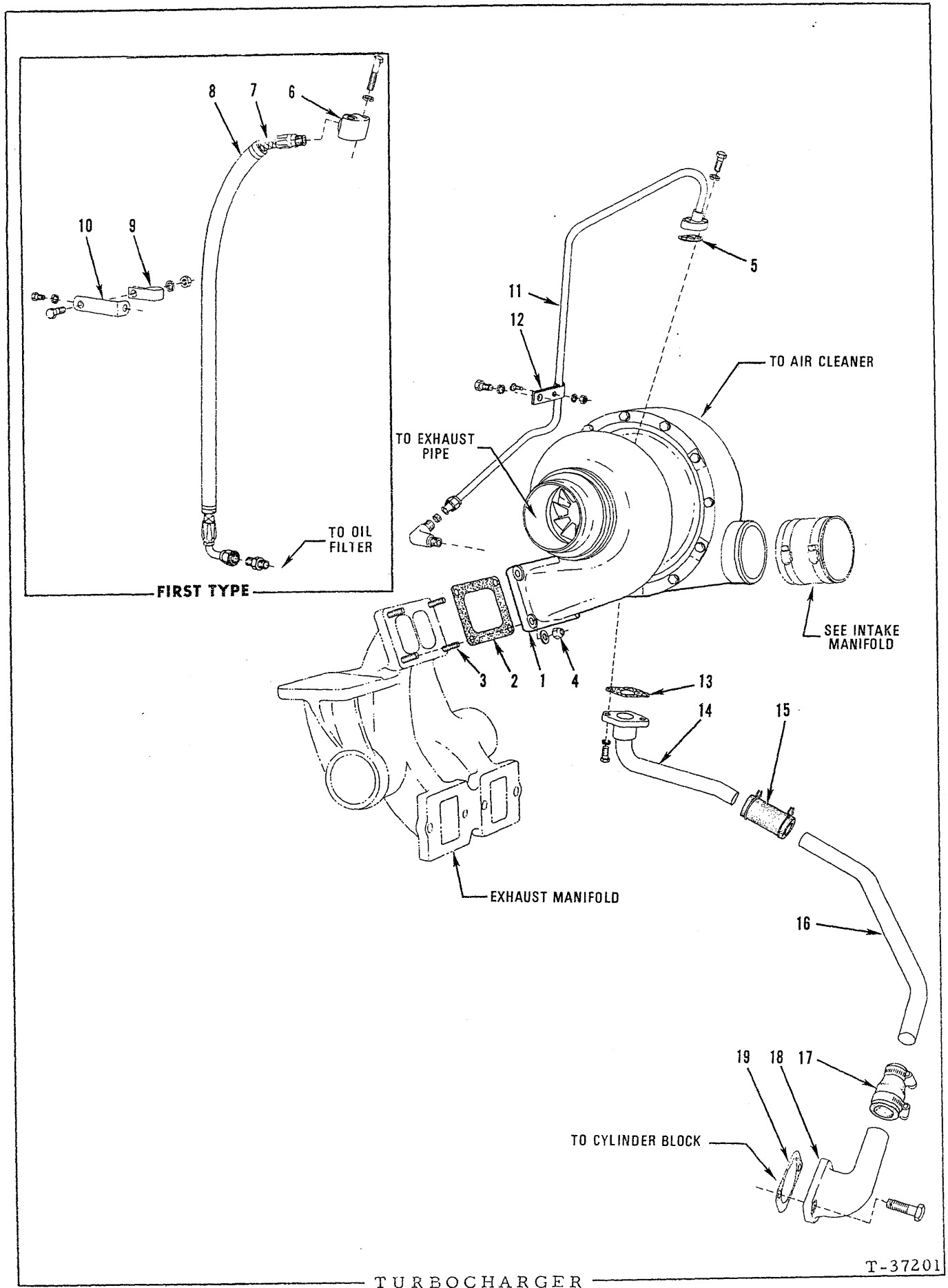


INTAKE MANIFOLD

T-75072

ITEM	PART NO.	QTY.	DESCRIPTION
1	74393778	1	MANIFOLD, intake (If for early engines also order 1 PLUG 70917673)
	70901667	1	PLUG, pipe, ctsk-hd., 1-1/4" NPT
	70917673	1	PLUG, pipe, ctsk-hd., 1/8" NPT (Late engines)
	70919840	1	PLUG, pipe, 1/4" NPT
2	74387697	6	□ GASKET, intake manifold
3	74255895	8	CAPSCREW, manifold attaching (1-1/4" long)
	74255914	4	CAPSCREW, manifold attaching (1-1/2" long)
	70912441	12	LOCKWASHER, 1/2"
4	74391707	1	□ GASKET, elbow to manifold
5	74393592	1	ELBOW, air intake
	70919840	1	PLUG, pipe, hex-hd., 1/4" NPT (Not used when engine primer is installed)
	70919230	4	CAPSCREW, 1/2" NC x 1-3/8"
	70912441	4	LOCKWASHER, 1/2"
6	74391131	1	HOSE, elbow to turbocharger
7	70929417	2	CLAMP, hose

(Revised January 1976)

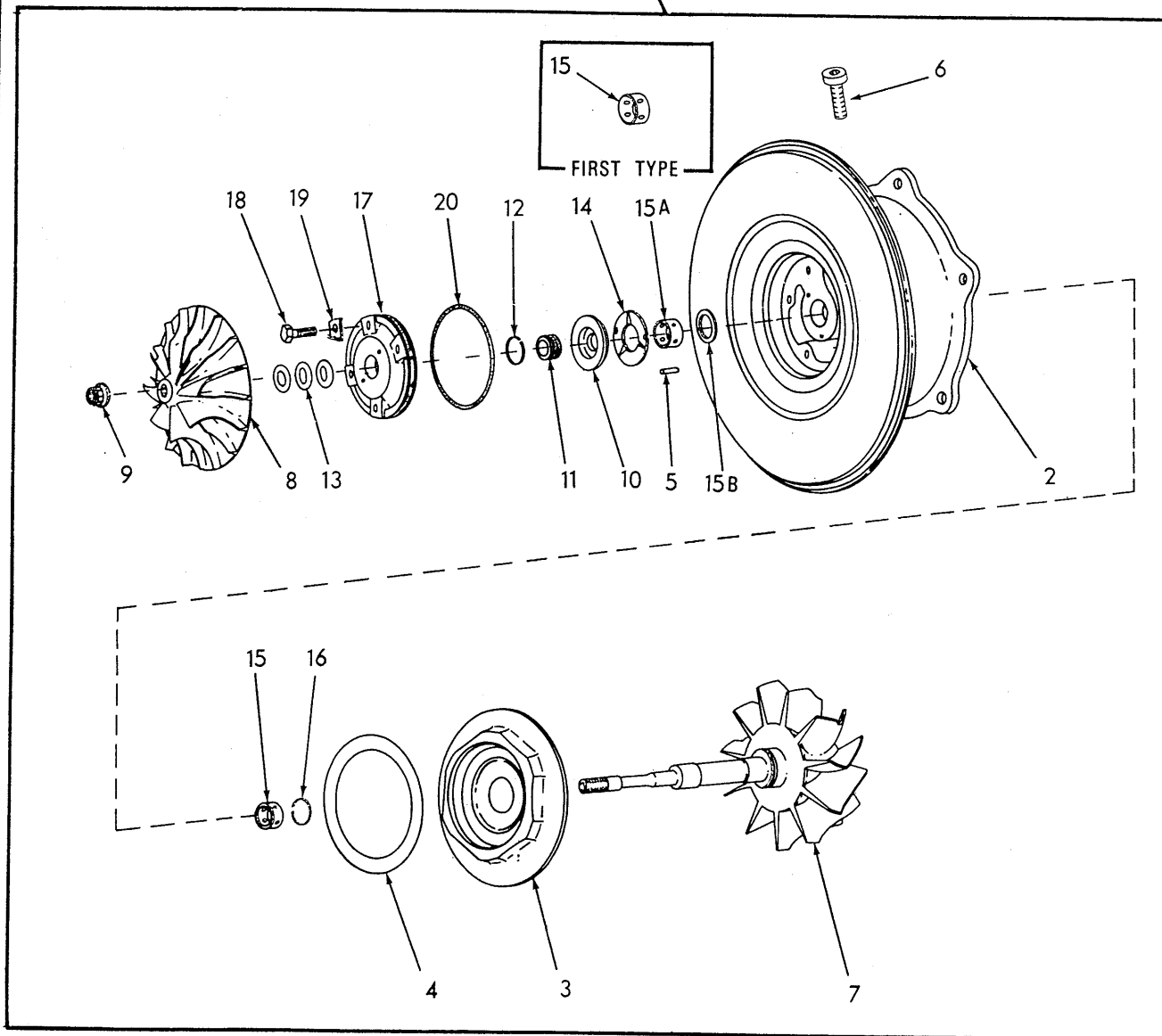
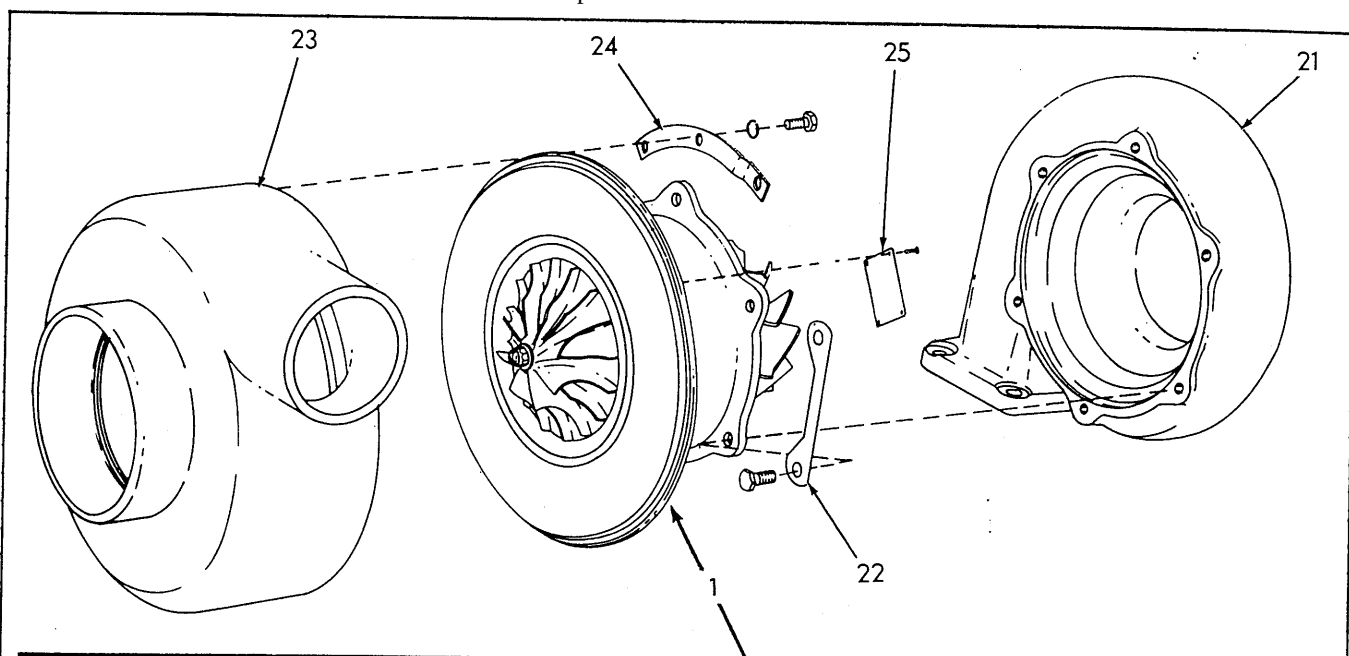


* Engines prior to serial No. 21-10093

** Engines serial No. 21-10093 and up

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	1 -	TURBOCHARGER ASSY. (Engines prior to #21-10019)(See page 83 for parts)
	-----	1 1	TURBOCHARGER ASSY. (Engines #21-10019 and up)(See page 84 for parts)
2	74336558	1 1	□GASKET, turbocharger to manifold
3	74339535	4 4	STUD, turbocharger attaching
4	74255977	4 4	NUT
	70913544	4 4	WASHER, plain
5	74335647	1 1	□GASKET, oil supply line flange
6	74386237	1 -	FLANGE, oil supply line
	70919226	2 -	CAPSCREW, 3/8"NC x 1-5/8"
	70904206	2 -	LOCKWASHER, 3/8"
7	74386238	1 -	HOSE ASSY., oil supply line (See HOSE PARTS. Also includes item 8)
	70919063	1 -	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
8	74379283	1 -	SLEEVE, hose protecting (asbestos)
	70920552	2 -	CLAMP, hose, 7/8" diam.
9	74254646	1 -	CLIP, hose supporting
	70915408	1 -	CAPSCREW, 3/8"NC x 3/4"
	70904206	1 -	LOCKWASHER, 3/8"
	70910324	1 -	NUT, 3/8"NC
10	74385412	1 -	BRACKET, hose supporting
	70916268	1 -	CAPSCREW, 3/8"NC x 5/8"
	70904206	1 -	LOCKWASHER, 3/8"
11	74391996	- 1	TUBE ASSY., oil supply line (Includes NUT and SLEEVE indented below)
	70917810	- 1	NUT, Imperial, 3/8" tube
	70917807	- 1	SLEEVE, Imperial, 3/8" tube
	70919005	- 1	ELBOW, Imperial, 90°, 3/8" tube, 3/8"NPT male
	70916269	- 2	CAPSCREW, 3/8"NC x 7/8"
	70904206	- 2	LOCKWASHER, 3/8"
12	74254961	- 1	CLAMP, tube supporting
	70917393	- 1	SCREW, machine, #8-32 x 3/8"
	70906964	- 1	LOCKWASHER, #8
	70907154	- 1	NUT, #8-32
	70916270	- 1	CAPSCREW, 3/8"NC x 1/2"
	70904206	- 1	LOCKWASHER, 3/8"
13	74335649	1 1	□GASKET, oil drain line, upper
14	74395640	1 1	TUBE, oil drain line, upper
	70916269	2 2	CAPSCREW, 3/8"NC x 7/8"
	70904206	2 2	LOCKWASHER, 3/8"
15	74387906	1 1	HOSE, oil drain line
	70921911	2 2	CLAMP, hose (11/16" to 1-1/4" diam.)
16	74394990	1 1	TUBE, oil drain line, lower (Includes item 18)
17	-----	1 1	ADAPTER, oil drain line
	70921911	1 1	CLAMP, hose (11/16" to 1-1/4" diam.)
	70921912	1 1	CLAMP, hose (1-1/16" to 2" diam.)
18	-----	1 1	ELBOW, oil drain line (Order item 16)
	70921865	2 2	CAPSCREW, Nylok, 1/2"NC x 1"
19	74310257	1 1	□GASKET, oil drain line elbow
20	74387007	1 1	GASKET KIT (Consists of items 2, 5, 13 and 19)(Not illustrated)

□Indicates components of item 20



TURBOCHARGER ASSEMBLY (First Type)

T-36187

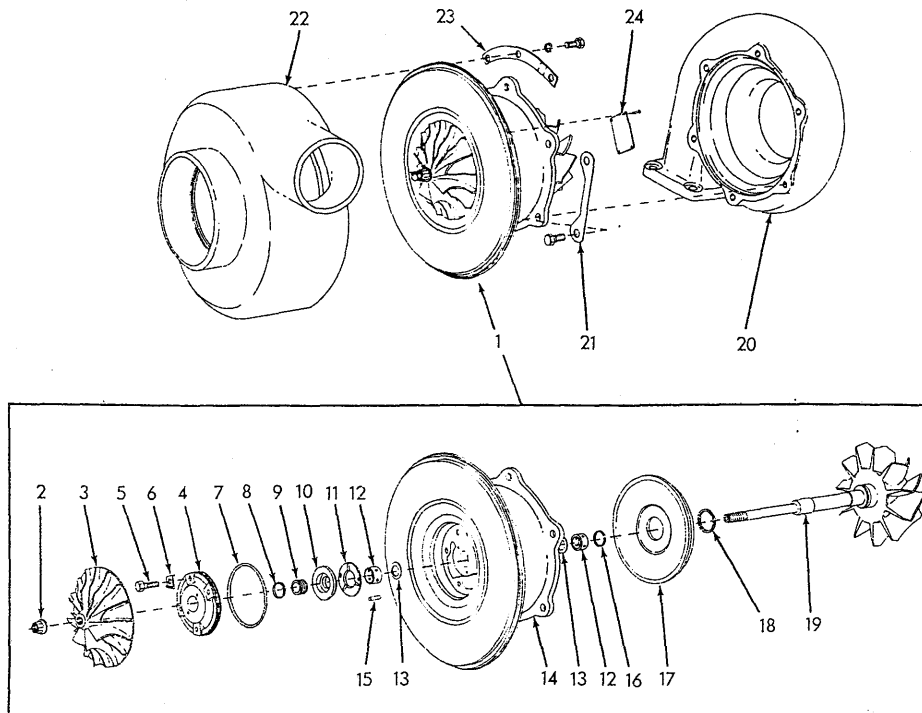
TURBOCHARGER ASSEMBLY

USAGE: See page 81. Used prior to Engine Serial No. 21-10019

ITEM	PART NO.	QTY.	DESCRIPTION
-	74390769	1	TURBOCHARGER ASSY. (Includes items 1 thru 25)
1	74059017	1	HOUSING AND ROTATING ASSY. (Consists of items 2 thru 20)
2	74056617	1	HOUSING ASSY., center (Includes items 3 thru 6)
3	-----	1	SHROUD, wheel (Not serviced separately)
4	-----	1	WASHER, locking, wheel shroud (Not serviced separately)
5	74055187	2	PIN, dowel, center housing
6	74055190	1	PLUG, oil reservoir, center housing
7	74056620	1	SHAFT AND WHEEL
8	74059016	1	IMPELLER
9	74055201	1	NUT, impeller retaining
10	74056494	1	RING, thrust
11	74060984	1	SPACER, thrust
12	74055195	1	RING, sealing
13	74055197	-	SHIM, impeller (.002" thick)
	74055198	-	SHIM, impeller (.005" thick)
	74055199	-	SHIM, impeller (.010" thick)
14	74061659	1	BEARING, thrust
15	74056295	2	BEARING, impeller shaft (First type)(Order items 15A and 15B)
15A	74061213	2	BEARING, impeller shaft (Second type)
15B	74061214	2	WASHER
16	74056296	3	RING, snap
17	74055193	1	PLATE ASSY., thrust, center housing (Includes riveted washer)
18	74055196	4	CAPSCREW, #10-24NC x 7/8"
19	74055194	4	PLATE, locking
20	74053336	1	O-RING, thrust plate
21	74055982	1	HOUSING, turbine
	74056026	6	CAPSCREW, 3/8"NC x 3/4"
22	74055981	3	PLATE, capscrew locking
23	74059018	1	HOUSING ASSY., compressor (Includes venturi)
24	74055203	6	CLAMP, compressor housing
	70915809	12	CAPSCREW, 5/16"NC x 3/4"
	70917356	12	LOCKWASHER, plated, 5/16"
25	74055206	1	PLATE, name
	74049009	4	SCREW, drive

Use as required

(Revised February 1978)



TURBOCHARGER ASSEMBLY

T-75467

USAGE: See page 81

* Engines serial No. 21-10019 thru 21-12393

** Engines serial No. 21-12394 and up

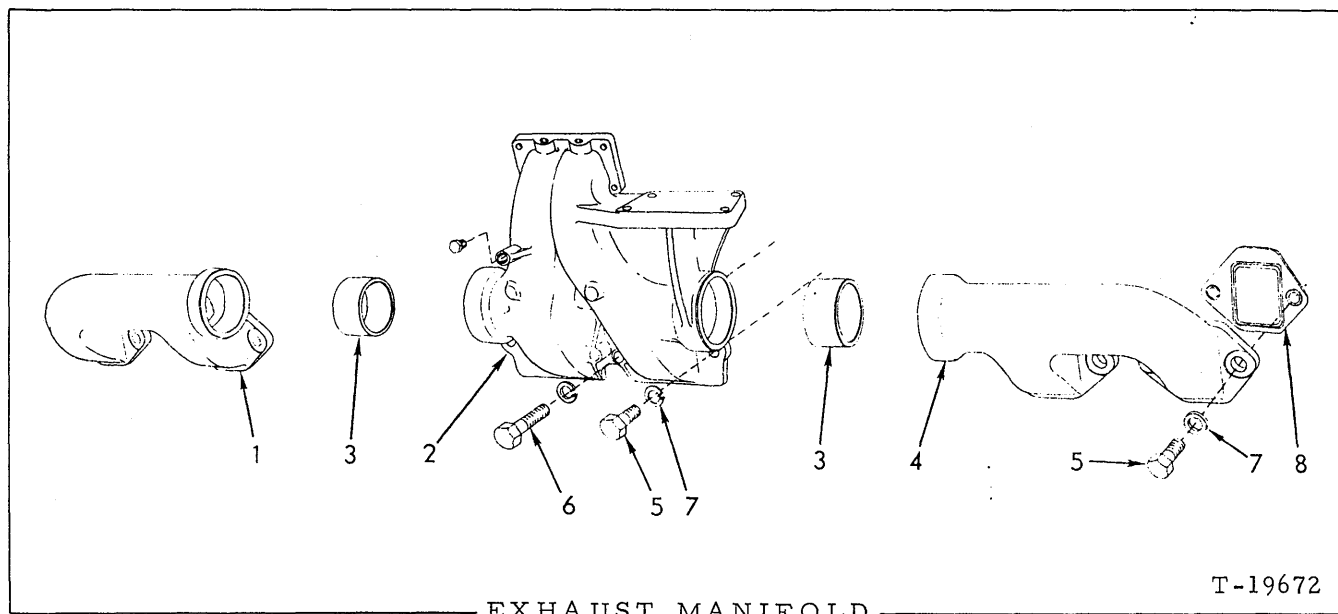
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
-	74391962	1	-	TURBOCHARGER ASSY. (Includes items 1 thru 12 and 14 thru 24)
-	74394366	-	1	TURBOCHARGER ASSY. (Includes items 1 thru 24)
1	{ 74059751	1	-	HOUSING AND ROTATING ASSY. (Consists of items 2 thru 12 and 14 thru 19)
	{ 74061217	-	1	HOUSING AND ROTATING ASSY. (Consists of items 2 thru 19)
2	74055201	1	1	NUT, impeller retaining
3	{ 74059016	1	-	IMPELLER
	{ 74061218	-	1	IMPELLER
4	74055193	1	1	PLATE ASSY., thrust, center housing (Includes riveted washer)
5	74055196	4	4	CAPSCREW, #10-24NC x 7/8"
6	74055194	4	4	PLATE, locking
7	74053336	1	1	O-RING, thrust plate
8	74055195	1	1	RING, sealing
9	{ 74056339	1	-	SPACER, thrust
	{ 74060984	-	1	SPACER, thrust
10	74056494	1	1	RING, thrust
11	74055192	1	1	BEARING, thrust
12	{ 74056295	2	-	BEARING, impeller shaft (Order 1 BEARING 74061213 and item 13)
	{ 74061213	-	2	BEARING, impeller shaft

(Continued)

(Revised February 1978)

TURBOCHARGER ASSEMBLY (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
13	74061214	-	2	WASHER, wear
14	74059745	1	-	HOUSING ASSY., center (Includes item 4)
	74061210	-	1	HOUSING ASSY., center (Includes item 4)
15	74055187	2	2	PIN, dowel, center housing
16	70927771	3	3	RING, snap
17	74059748	1	1	SHROUD, wheel
18	74059746	1	-	RING, sealing shaft
	74061212	-	1	RING, sealing shaft
19	74059744	1	1	SHAFT AND WHEEL
20	74059747	1	1	HOUSING, turbine
	74056026	6	6	CAPSCREW, 3/8"NC x 3/4"
21	74055981	3	3	PLATE, capscREW locking
22	74059018	1	1	HOUSING ASSY., compressor (Includes venturi)
23	74055203	6	6	CLAMP, compressor housing
	70903626	12	12	CAPSCREW, 5/16"NC x 3/4"
	70917356	12	12	LOCKWASHER, plated, 5/16"
24	74055206	1	1	PLATE, name
	74049009	4	4	SCREW, drive



ITEM	PART NO.	QTY.	DESCRIPTION
1	74395012	1	MANIFOLD, rear section
2	74393548	1	MANIFOLD, exhaust, center section
	70917425	2	PLUG, pipe, hex-hd., brass, 1/4"NPT
3	74391425	2	SLEEVE, connecting (Engines prior to #21-13967)
4	74395011	1	MANIFOLD, front section
5	70915987	10	CAPSCREW, manifold attaching (1-1/2" long)
6	70916317	2	CAPSCREW, manifold attaching (2-3/4" long)
7	70912441	12	LOCKWASHER, 1/2"
8	74387697	6	□ GASKET, manifold

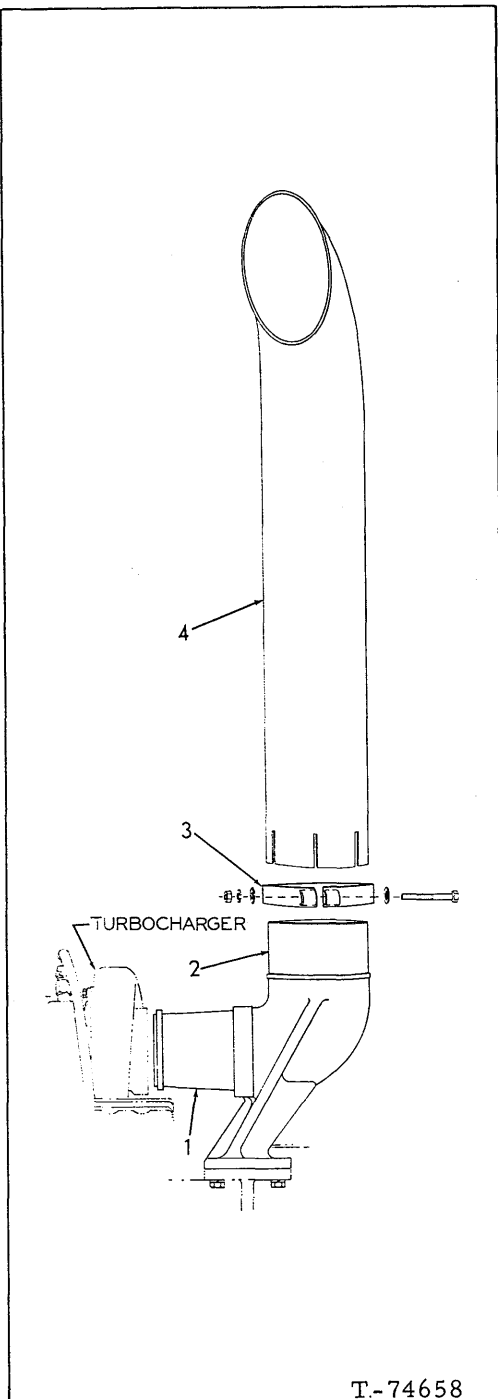
(Revised February 1978)

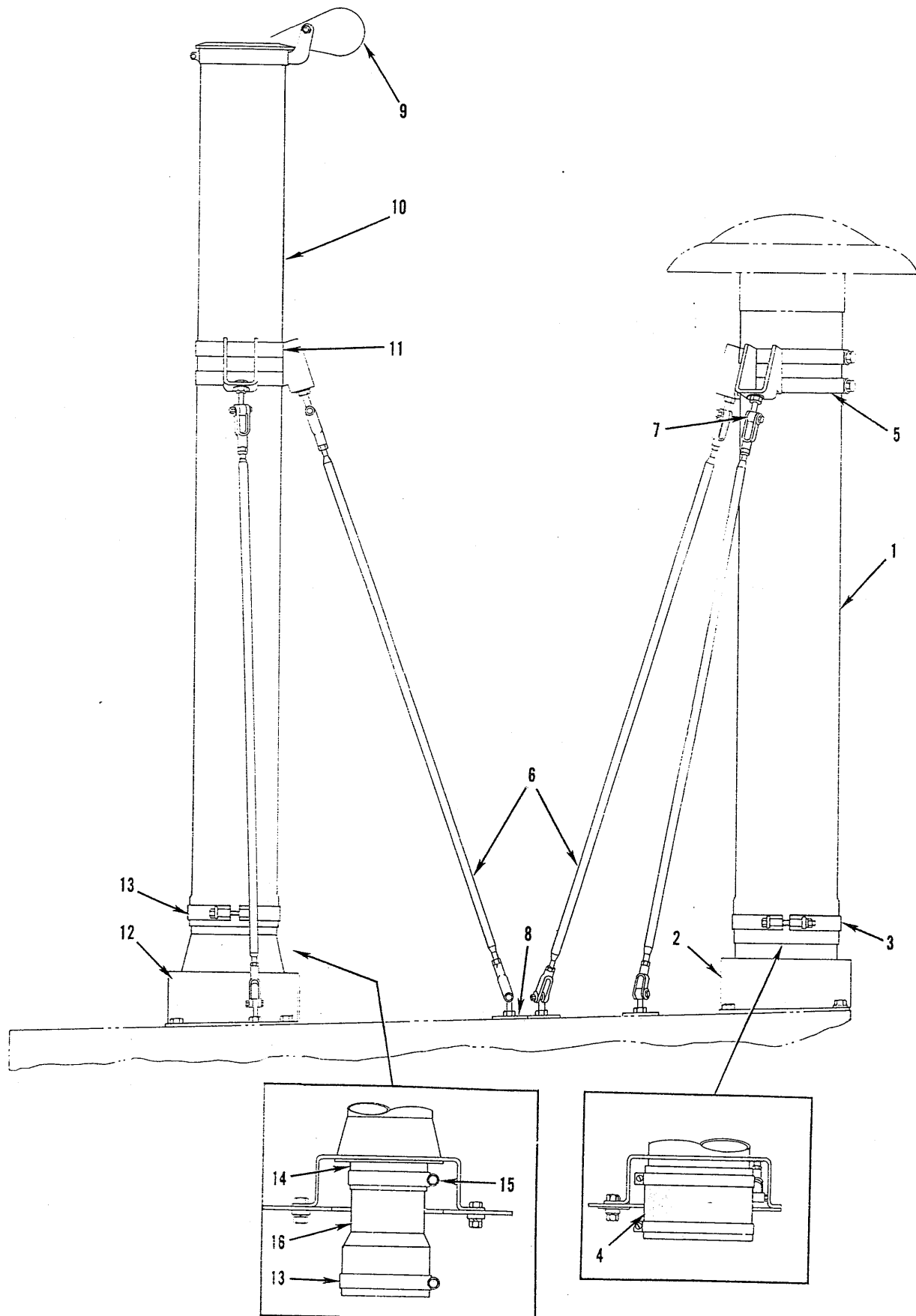
EXHAUST PIPE

USAGE: Tractors prior to serial No. 10S19645, including 10S19647 and 10S19648

ITEM	PART NO.	QTY.	DESCRIPTION
1	74391715	1	DIFFUSER, exhaust
2	74393563	1	ELBOW, exhaust
	70919230	4	CAPSCREW, 1/2" NC x 1-3/8"
	70904208	4	LOCKWASHER, 1/2"
3	70629755	1	CLAMP ASSY., exhaust pipe (Includes hardware which is not serviced separately)
4	70096055	1	PIPE, exhaust

NOTE: See page 89 for special exhaust extension.





AIR INTAKE AND EXHAUST EXTENSIONS

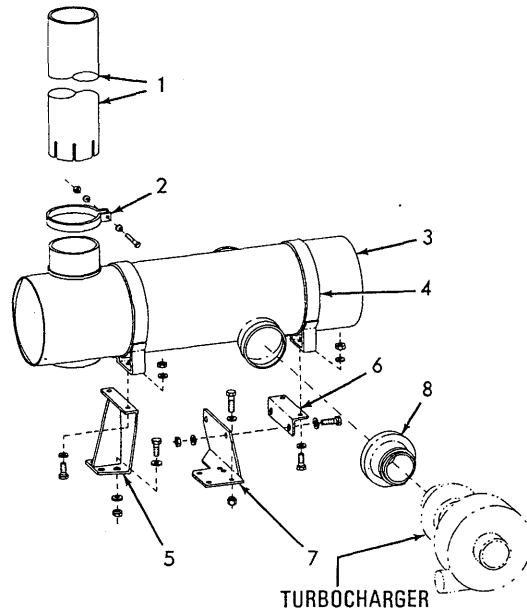
I-75080

AIR INTAKE AND EXHAUST EXTENSIONS

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70665601	1	TUBE, extension, air intake
2	70665600	1	BRACKET, air intake tube
	70920582	2	CAPSCREW, 1/2"NC x 1-1/4"
	70677008	2	WASHER, plain
	70912441	2	LOCKWASHER, 1/2"
	70911028	2	NUT, 1/2"NC
3	70658633	1	CLAMP, air intake tube
	70927339	1	CAPSCREW, 3/8"NF x 3-1/4"
	70677006	2	WASHER, plain
	70910287	1	LOCKWASHER, 3/8"
	70910123	1	NUT, 3/8"NF
4	70665598	1	HOSE, intake tube bracket to air cleaner
	70925894	2	CLAMP, hose, 7-1/4" to 7-1/2" diam.
5	70665614	1	BRACKET, bracing rod, air intake tube
	70927339	2	CAPSCREW, 3/8"NF x 3-1/4"
	70677006	4	WASHER, plain
	70910287	2	LOCKWASHER, 3/8"
	70910123	2	NUT, 3/8"NF
6	70665606	4	ROD, extension tube bracing
	70911041	8	NUT, 3/8"NF
	70628736	8	YOKE, rod end, adjustable, 3/8"NF
	70924228	8	CAPSCREW, 3/8"NF x 1-1/2"
	70913434	8	NUT, high, 3/8"NF
7	70057148	8	BOLT, eye
	70911115	8	WASHER, plain
	70910123	16	NUT, 3/8"NF
8	70665609	8	WASHER, hood reinforcing
9	70097354	1	CAP, weather
10	70665591	1	TUBE, extension, exhaust
11	70665592	1	BRACKET ASSY., bracing rod, exhaust tube (Includes hardware which is not serviced seperately)
12	70665585	1	BRACKET, exhaust tube
	70920582	4	CAPSCREW, 1/2"NC x 1-1/4"
	70677008	4	WASHER, plain
	70912441	4	LOCKWASHER, 1/2"
	70911028	4	NUT, 1/2"NC
13	70665594	2	CLAMP, exhaust tube and adapter
	70927339	2	CAPSCREW, 3/8"NF x 3-1/4"
	70677006	4	WASHER, plain
	70910287	2	LOCKWASHER, 3/8"
	70910123	2	NUT, 3/8"NF
14	70665590	1	RING, adapter
15	70665596	1	CLAMP, adapter ring
	70927339	1	CAPSCREW, 3/8"NF x 3-1/4"
	70677006	2	WASHER, plain
	70910287	1	LOCKWASHER, 3/8"
	70910123	1	NUT, 3/8"NF
16	70665588	1	ADAPTER, exhaust tube bracket

(Revised February 1978)

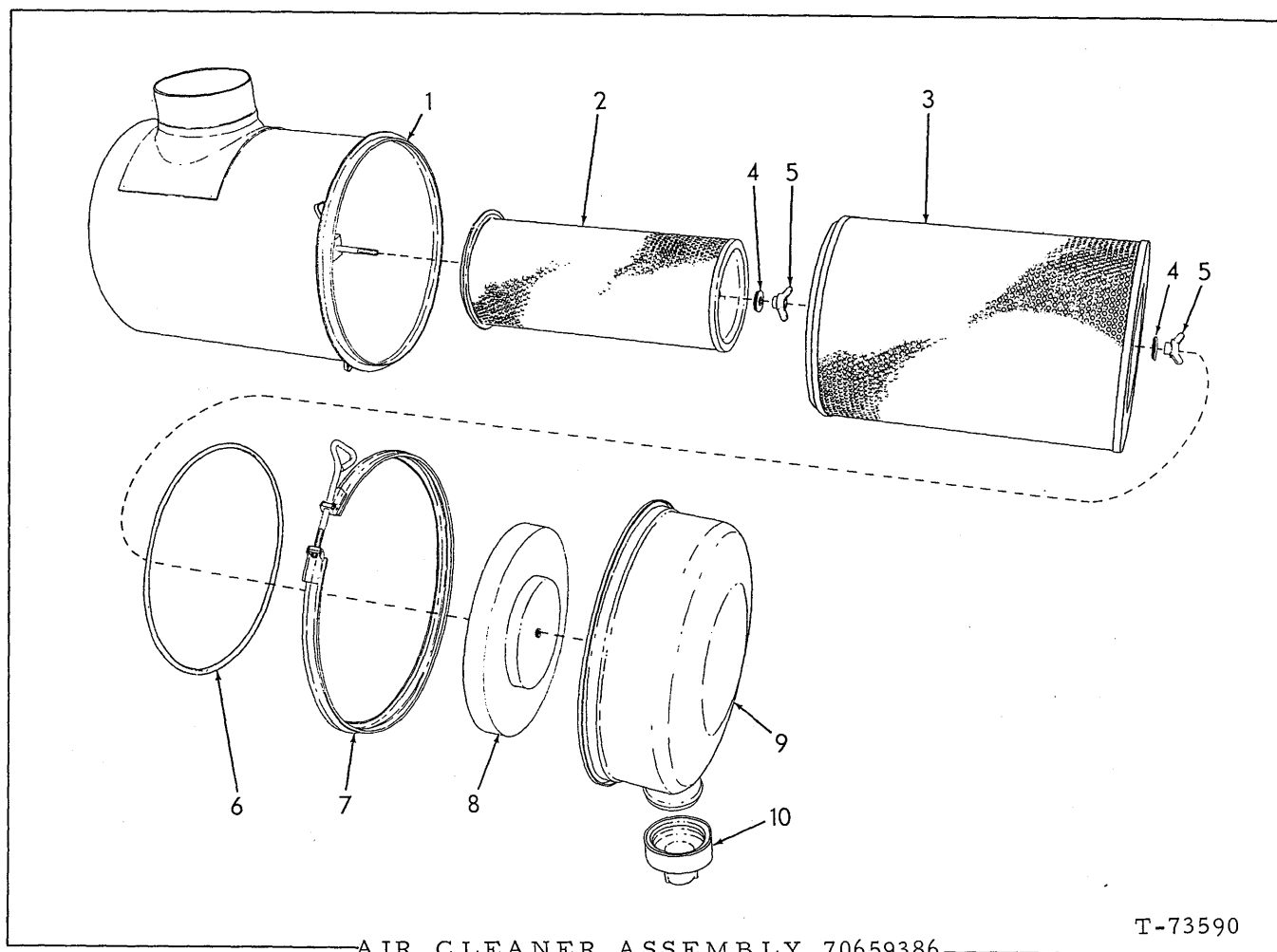


T-79062

MUFFLER

USAGE: Standard on tractor serial No. 10S19645 and up, excluding serial Numbers 10S19647 and 10S19648. (Optional equipment on prior units)

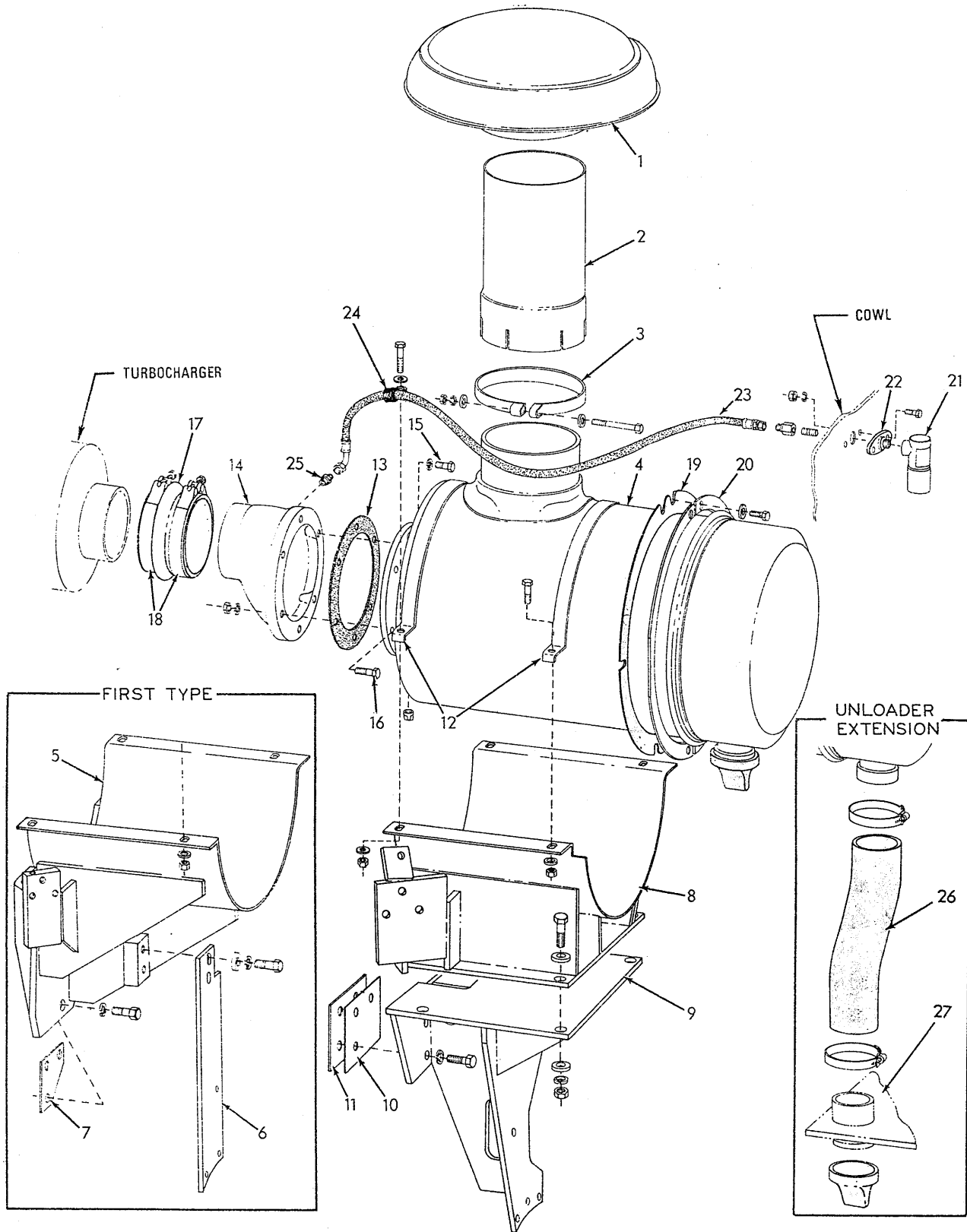
ITEM	PART NO.	QTY.	DESCRIPTION
1	70656910	1	EXHAUST PIPE
2	70629755	1	CLAMP ASSY., exhaust pipe (Includes hardware which is not serviced separately)
3	70683655	1	MUFFLER (40" long)(Special equipment on tractors prior to unit #19645 and including units #19647 and #19648)
	70691461	1	MUFFLER (38" long)(Effective on unit #19645 and up excluding units #19647 and #19648)
4	70683656	2	CLAMP ASSY. (Includes bolt)
	70921076	4	CAPSCREW, 3/8"NC x 1-1/4"
	70677006	8	WASHER, plain
	70911026	4	NUT, 3/8"NC
5	70691546	1	BRACKET, clamp support, left
	70920583	4	CAPSCREW, 1/2"NC x 1-1/2"
	70677008	8	WASHER, plain
6	70683701	1	ANGLE, clamp support, right
	70920585	2	CAPSCREW, 1/2"NC x 1-3/4"
	70677008	4	WASHER, plain
	70911028	2	NUT, 1/2"NC
7	70683702	1	BRACKET, angle support
	70921556	4	CAPSCREW, 1/2"NC x 1-3/4"
	70677008	4	WASHER, plain
	70911028	4	NUT, 1/2"NC
8	70683678	1	DIFFUSER, exhaust



AIR CLEANER ASSEMBLY 70659386

USAGE: See page 93

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY (Not serviced separately)
2	70197588	1	ELEMENT ASSY., safety (inner)
3	70659387	1	ELEMENT ASSY., filtering (outer)
4	-----	2	GASKET, element retaining nut
5	70664343	2	NUT ASSY., element retaining (Includes item 4)
6	70197805	1	O-RING, cup sealing
7	70197806	1	CLAMP ASSY. (Includes tightening screw)
8	70197808	1	BAFFLE ASSY. (Includes wing nut)
9	70197809	1	CUP, sediment
10	70197810	1	UNLOADER



AIR CLEANER (Dry-type)

T-75079

AIR CLEANER (Dry-type)

USAGE: Standard equipment. See page 97 for optional oil-bath air cleaner

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70197576	1	CAP, air inlet tube (Includes mounting clamp)	
2	70658509	1	TUBE, air inlet (Not for units with special air and exhaust extension stacks)	
3	70658633	1	CLAMP, inlet tube	
	70924843	1	CAPSCREW, 3/8"NC x 3-1/2"	
	70677006	2	WASHER, plain	
	70911026	1	NUT, 3/8"NC	
4	70659386	1	CLEANER ASSY., air (See page 91 for parts)	
	70912060	1	CAP, pipe, 1/8"NPT	
5	70658518	1	BRACKET, mounting (Also serves as engine lifter)(Tractors prior to #16160)	Tractors prior to unit #17001
	70669199	1	BRACKET, mounting (Also serves as engine lifter)(Tractor #16160 and up)	
	70920574	3	CAPSCREW, 1/2"NC x 1-3/8"	
	70904208	3	LOCKWASHER, 1/2"	
	70660857	1	PLATE, mounting bracket	
6	70035061	2	CAPSCREW, 1/2"NC x 1-1/4"	
	70904208	2	LOCKWASHER, 1/2"	
	70064531	2	WASHER, plain	
	70664855	1	SPACER, mounting bracket	
8	70670011	1	BRACKET, mounting (upper)	Tractor unit #17001 and up
	70920583	4	CAPSCREW, 1/2"NC x 1-1/2"	
	70064531	8	WASHER, plain (Tractors unit #17001 thru #18575)	
	70912441	4	LOCKWASHER, 1/2"	
	70911028	4	NUT, 1/2"NC	
9	70670012	1	BRACKET, mounting (lower)(Also serves as engine lifter)	
	70920574	3	CAPSCREW, 1/2"NC x 1-3/8"	
	70928460	3	WASHER, plain	
10	70670295	2	SHIM, mounting bracket	
11	70670294	1	SPACER, mounting bracket	
12	70667182	2	BAND, mounting	
	70922287	3	CAPSCREW, 3/8"NC x 1-3/4"	
	70677006	3	WASHER, plain	
	70918308	3	NUT, elastic stop, 3/8"NC	
13	70660841	1	GASKET, air intake elbow	
14	70660776	1	ELBOW, air intake	
15	70922763	2	CAPSCREW, 3/8"NC x 1"	
16	70927157	4	CAPSCREW, 3/8"NC x 1-3/8"	
	70930370	6	WASHER, plain	
	70911026	4	NUT, 3/8"NC	
17	70658619	1	HOSE, air intake elbow	
18	70930382	2	CLAMP, hose	
19	70658510	1	GASKET, cleaner sealing	
20	70658532	2	PLATE, sealing gasket	
	70929024	6	CAPSCREW, Nylok, 1/4"NC x 7/8"	
	70677004	6	WASHER, plain	

(Continued)

(Revised May 1976)

AIR CLEANER (Dry-type)(Continued)

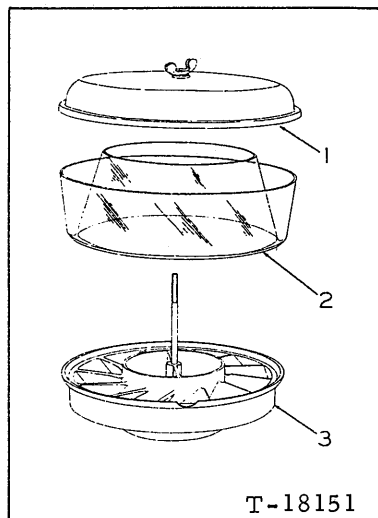
ITEM	PART NO.	QTY.	DESCRIPTION
21	70697589	1	INDICATOR, air restriction (Serviced only as a unit)
22	73045531	1	FLANGE, mounting, air restriction indicator
	70929021	2	CAPSCREW, cd-pltd., 1/4"NF x 3/4"
	70910285	2	LOCKWASHER, 1/4"
	70911040	2	NUT, 1/4"NF
23	70646910	1	HOSE, restriction indicator (22-1/4" long)(See HOSE PARTS)
	70682793	1	HOSE, restriction indicator (39" long)
	70919174	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
	70904273	1	NIPPLE, pipe, 1/8"NPT x 1"
24	70927599	1	CLIP
	70920995	1	CAPSCREW, 3/8"NC x 2"
	70677006	2	WASHER, plain
	70918308	1	NUT, elastic stop, 3/8"NC
25	70631769	1	FITTING, safety, restriction indicator line
26	70645267	1	HOSE, unloader extension
	70921915	2	CLAMP, hose, 2-13/16" to 3-3/4"
27	-----	1	PLATE (See FLOOR)

} Special equipment

NOTE: See PAINTING AND MARKING for transfers

AIR PRE-CLEANER ASSEMBLY 70082524

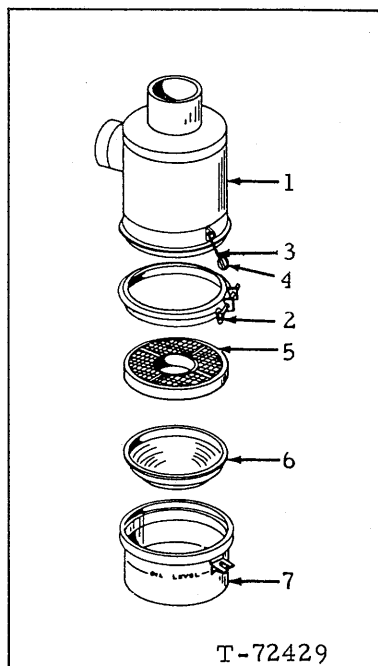
USAGE: See page 97



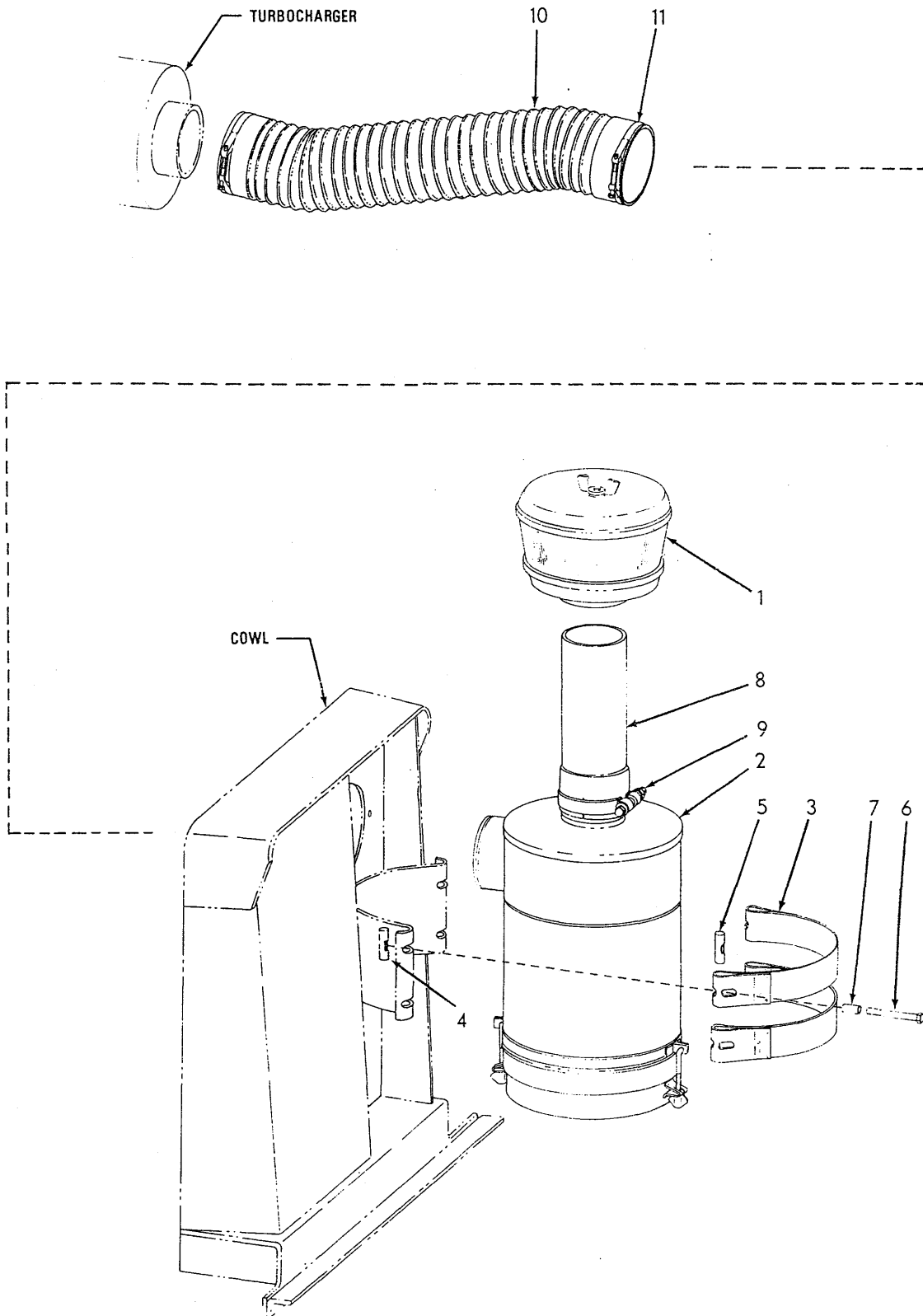
ITEM	PART NO.	QTY.	DESCRIPTION
1	70082661	1	COVER ASSY. (Includes wing nut)
2	70082662	1	BODY
3	70082663	1	SLEEVE ASSY. (Includes stud)

AIR CLEANER ASSEMBLY 70655271

USAGE: See page 97



ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY ASSY. (Not serviced separately)
2	70656647	1	BAND ASSY. (Includes screw and nut)
3	74055454	2	BOLT ASSY. (Includes item 4)
4	74055455	2	NUT, wing
5	70656644	1	ELEMENT, filtering
6	70656645	1	CUP, inner
7	70656646	1	CUP, outer



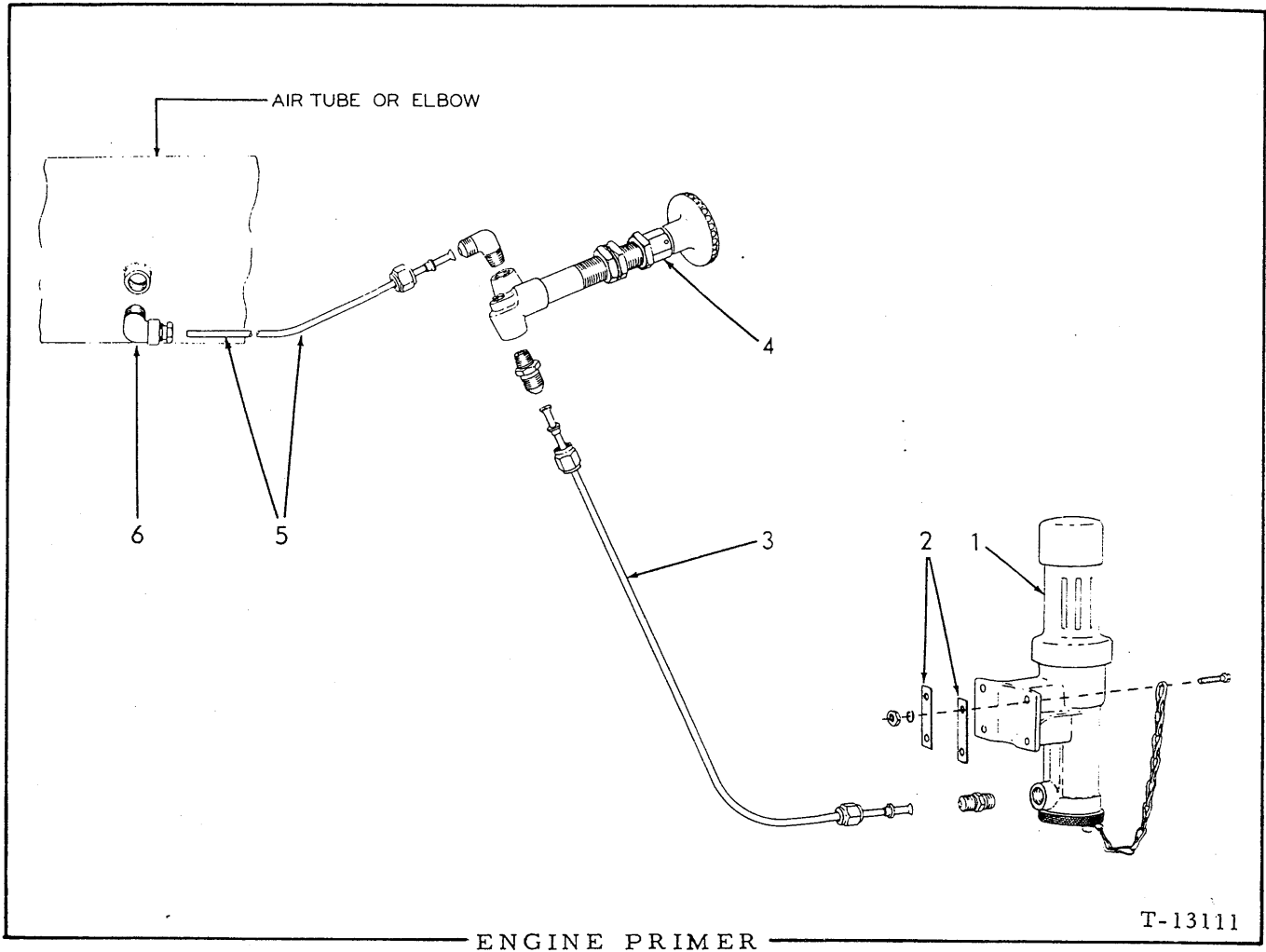
T-75081

AIR CLEANER (Oil-bath)

USAGE: Special equipment

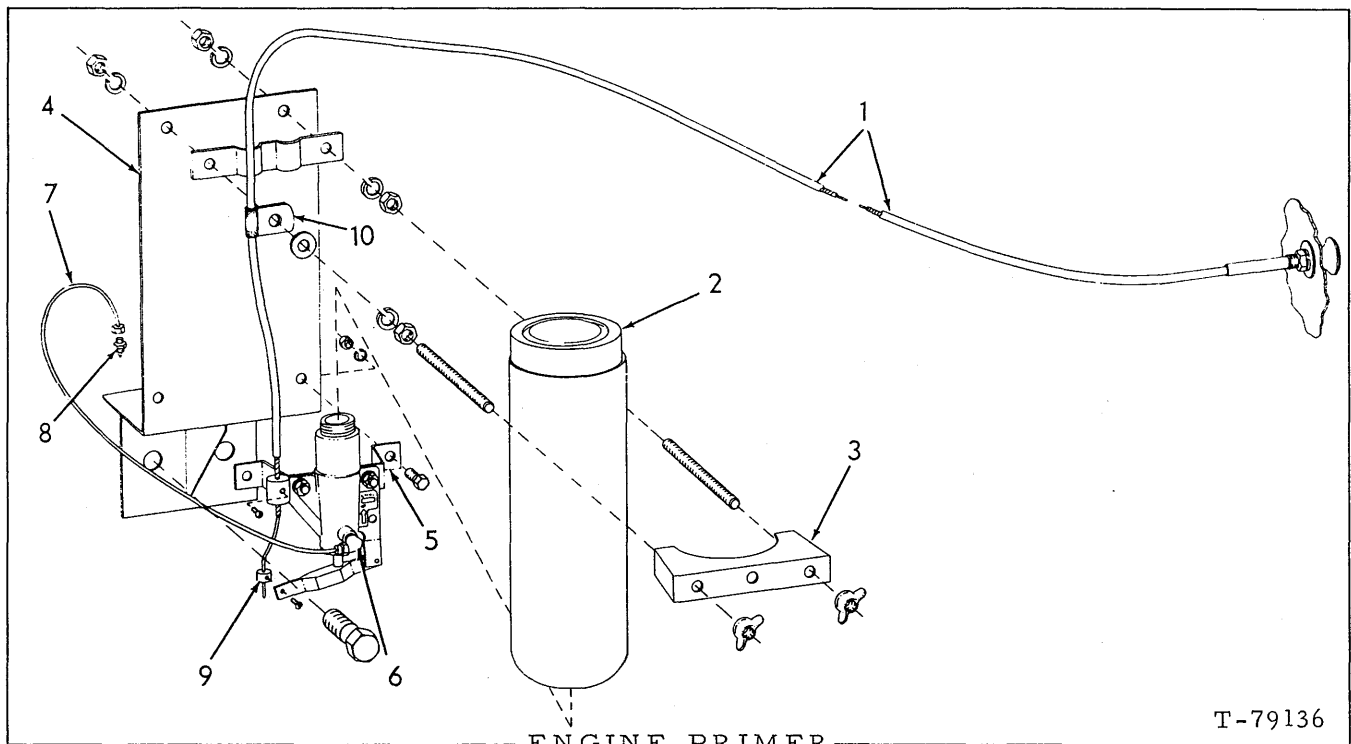
ITEM	PART NO.	QTY.	DESCRIPTION
1	70082524	1	PRE-CLEANER ASSY., air (See page 95 for parts)
2	70655271	1	CLEANER ASSY., air (See page 95 for parts)
3	70658774	2	BAND, air cleaner mounting
4	70056100	4	PIN, mounting band (threaded hole)
5	70056099	4	PIN, mounting band (plain hole)
6	70924842	4	CAPSCREW, mounting band
7	70053667	4	SPACER, mounting band capscREW
8	70660043	1	TUBE, air inlet
9	70644001	1	CLAMP, air inlet tube
	70922848	1	CAPSCREW, 3/8"NC x 3-1/4"
	70677006	2	WASHER, plain
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
10	70669848	1	HOSE, air intake tube
11	70930382	2	CLAMP, intake tube hose

NOTE: See PAINTING AND MARKING for transfers



USAGE: Special equipment. Used prior to September 1973

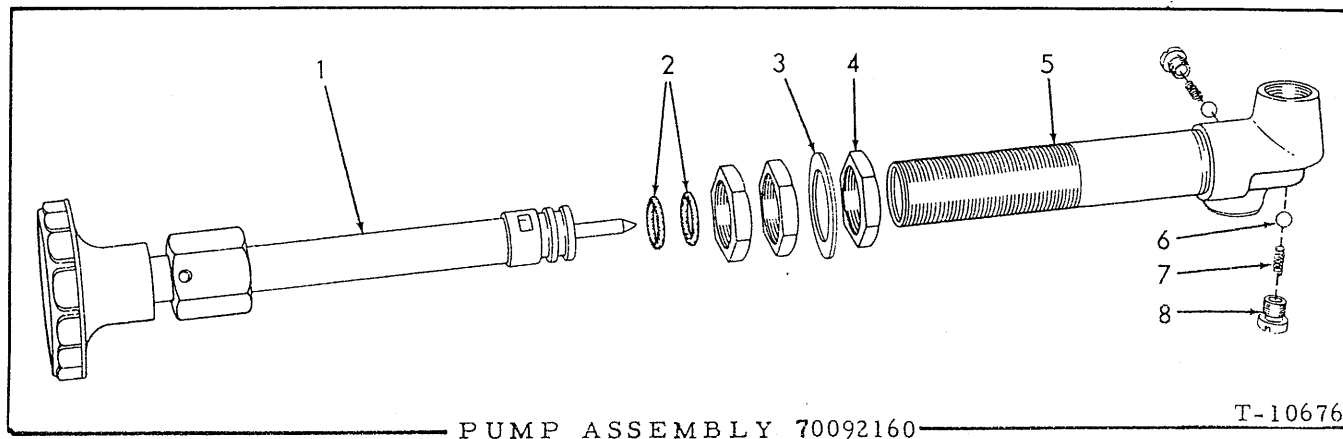
ITEM	PART NO.	QTY.	DESCRIPTION
1	70075771	1	DISPENSER ASSEMBLY, priming fuel (See page 101 for parts)
	70913706	4	CAPSCREW, #10-24NC x 1"
	70904203	4	LOCKWASHER, #10
	70901310	4	NUT, #10-24NC
2	70066261	6	GASKET, dispenser mounting
3	-----	1	TUBE, dispenser to pump (Order item 7)
	70915488	2	NUT, Sealastic, 1/8" tube
	70915486	2	RING, Sealastic, 1/8" tube (Includes ferrule)
	70915556	2	CONNECTOR, Sealastic, 1/8" tube, 1/8"NPT male
4	70092160	1	PUMP ASSEMBLY (See page 100 for parts)
5	-----	1	TUBE, pump discharge (Order item 7)
	70915488	1	NUT, Sealastic, 1/8" tube
	70915486	1	RING, Sealastic, 1/8" tube (Includes ferrule)
	70915557	1	ELBOW, Sealastic, 1/8" tube, 1/8"NPT male
6	70066517	1	ELBOW ASSEMBLY, fuel spray (Includes nozzle, nut and sleeve. Serviced only as a unit)
7	70066253	-	TUBING, copper, 1/8"O.D., 10ft. roll (Use as req'd)(Not Illustrated)



USAGE: Special equipment. Effective September 1973

ITEM	PART NO.	QTY.	DESCRIPTION
1	70684988	1	CABLE ASSY., control (Includes lockwasher and mounting nut)
	70917378	2	WASHER, plain, U.S. std., 3/8"
2	73100082	1	TANK
3	70669359	1	CLAMP ASSY., tank supporting
4	70684979	1	PLATE, tank supporting
	70920583	2	CAPSCREW, 1/2"NC x 1-1/2"
5	70669526	1	BRACKET ASSY. (Includes valve)
	70906820	1	SCREW, machine, #10-32 x 5/16" (cable attaching)
	70928138	2	CAPSCREW, 1/4"NC x 5/8"
	70910285	2	LOCKWASHER, 1/4"
	70911024	2	NUT, 1/4"NC
6	73052086	1	ELBOW, tube connecting
7	70669053	1	TUBE, valve to jet
	70911841	1	SLEEVE, compression fitting, 1/8" tube
	70912589	1	NUT, compression fitting, 1/8" tube
8	74024482	1	JET, fluid atomizing
9	70253308	1	STOP, cable
	70906820	1	SCREW, machine, #10-32 x 5/16"
10	70639388	1	CLIP, cable supporting
	70910335	1	WASHER, plain, SAE std., 5/16"

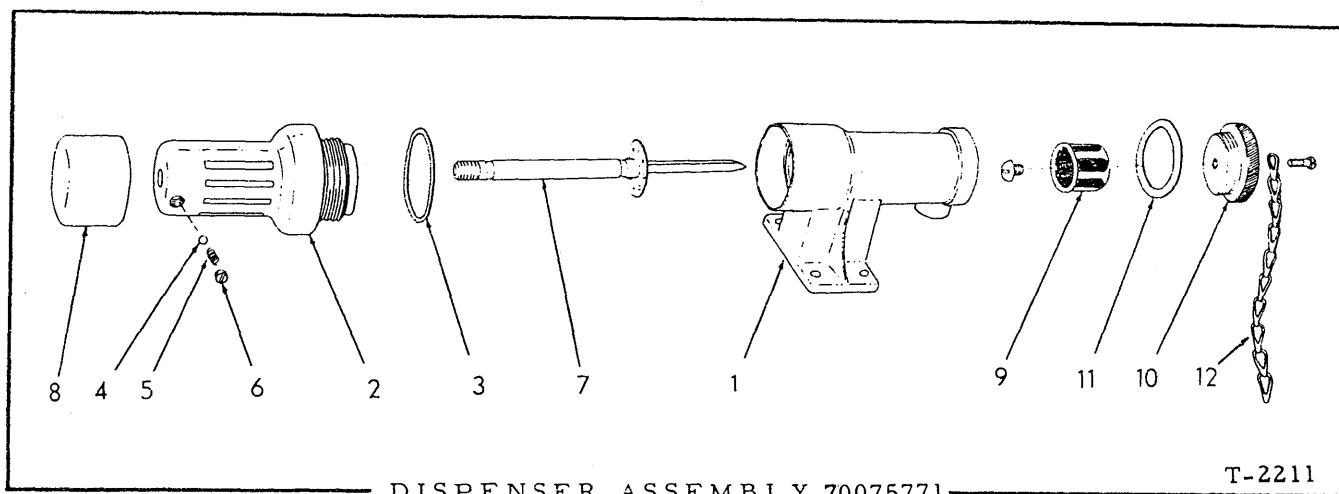
(Revised August 1979)



USAGE: See page 98

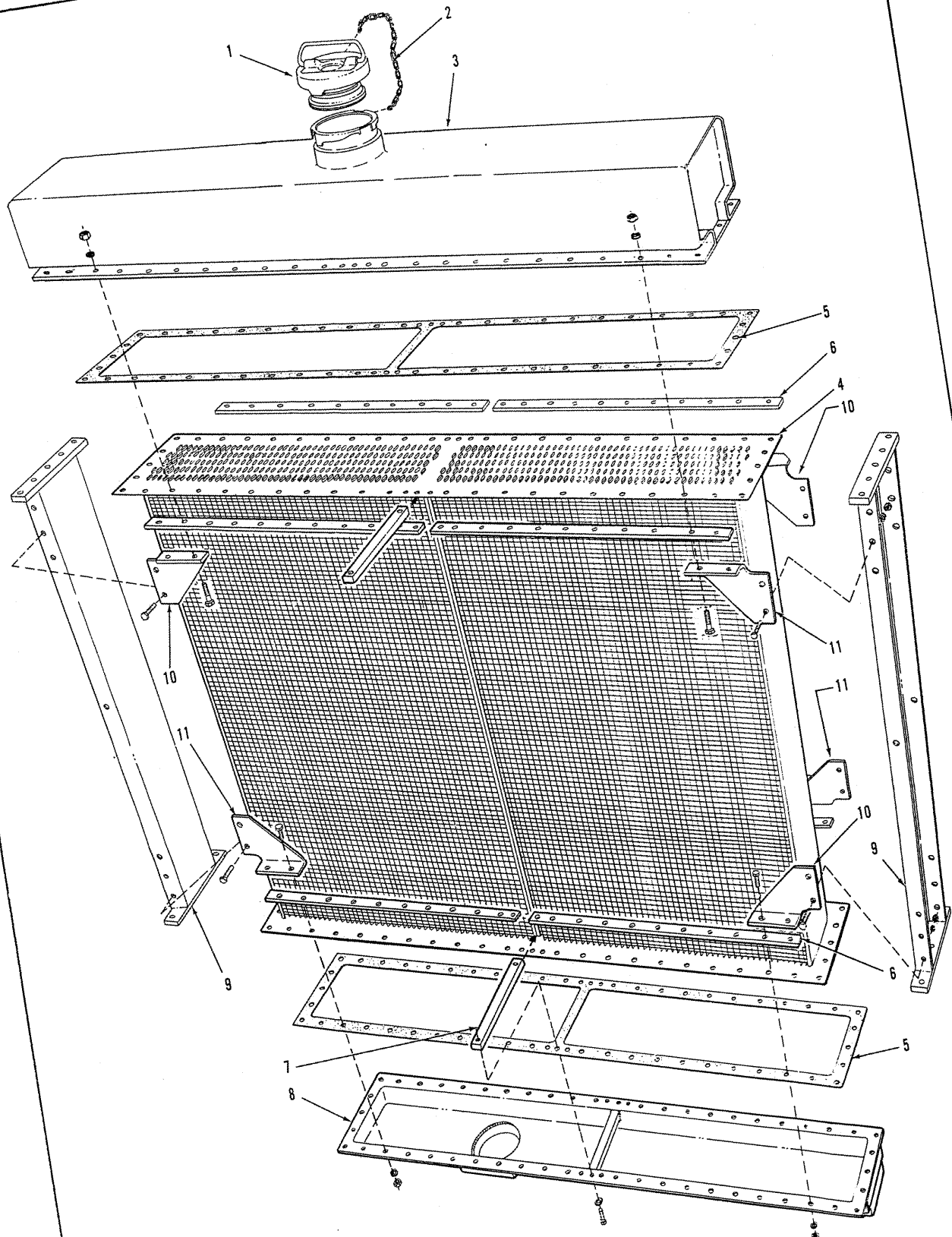
ITEM PART NO. QTY. DESCRIPTION

1	-----	1	PISTON ASSEMBLY (Not serviced separately)
2	70923560	2	O-RING, plunger
3	70066873	1	WASHER, mounting
4	70066872	3	NUT, mounting
5	-----	1	BARREL ASSEMBLY (Not serviced separately)
6	70066876	2	BALL, check valve (5/32" diam.)
7	70066875	2	SPRING, check valve
8	70066874	2	RETAINER, check valve



USAGE: See page 98

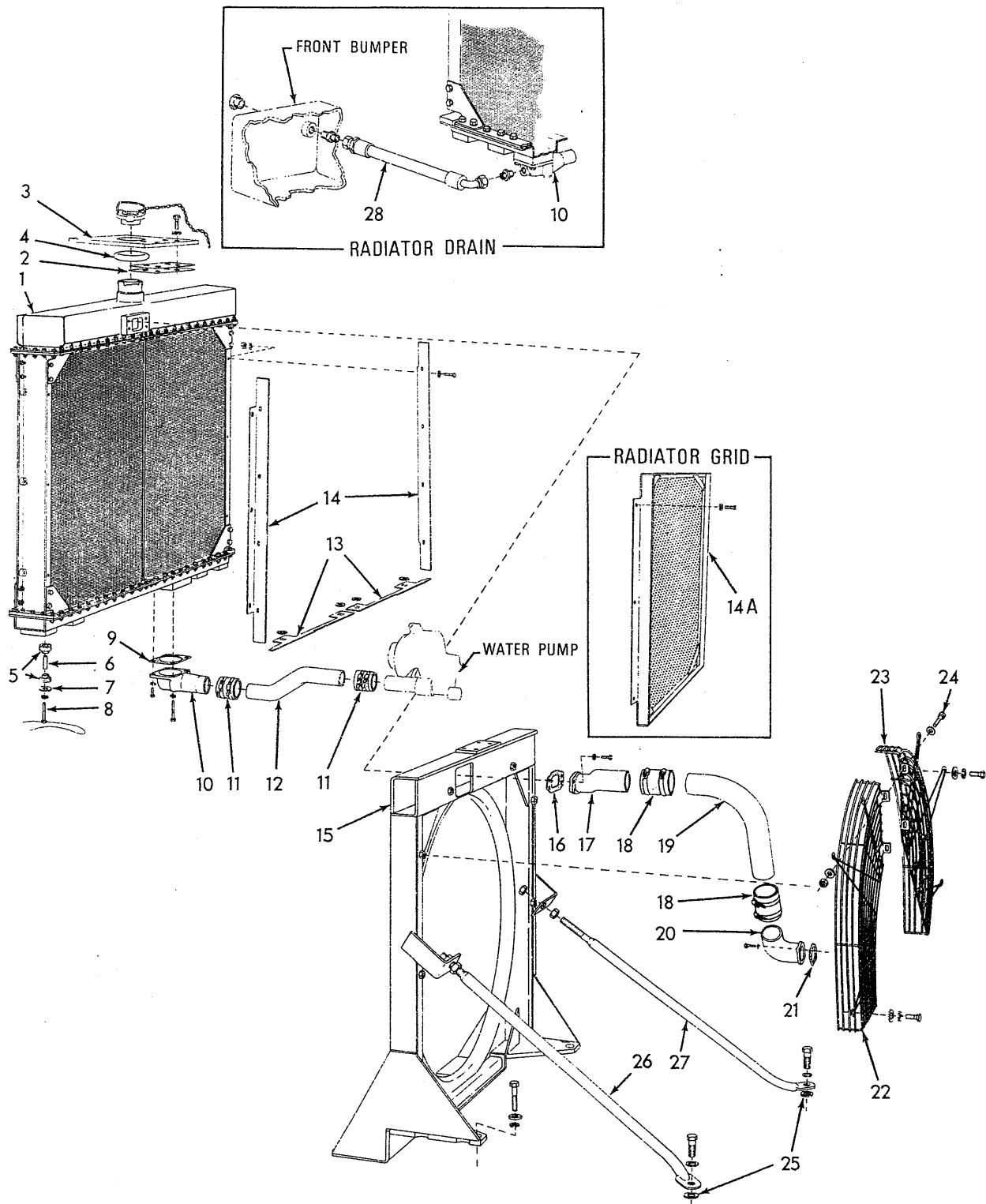
ITEM	PART NO.	QTY.	DESCRIPTION
1	70068878	1	BODY, fuel dispenser
2	70068879	1	CHAMBER, fuel dispenser
3	70069164	1	GASKET, fuel dispenser chamber
4	70905357	1	BALL, steel, 3/16" diam.
5	70066251	1	SPRING, plunger locking ball
6	70066252	1	PLUG, retaining, locking ball spring
7	70066255	1	PLUNGER, fuel dispenser
8	70068881	1	KNOB, fuel dispenser plunger
9	70068875	1	STRAINER, fuel dispenser
	70915432	1	SCREW, machine, 1/4"NC x 5/16"
10	70075770	1	PLUG, fuel dispenser strainer
11	70068876	1	GASKET, fuel dispenser strainer plug
12	70075769	1	CHAIN, strainer plug retaining
	70901781	1	SCREW, machine, fil-hd., #10-32NF x 1/2"



T-12587

ITEM	PART NO.	QTY.	DESCRIPTION	
-	70666955	-	RADIATOR ASSY. (Staggered tubes. Copper-finned) (Standard on tractors prior to #16195; including #19025 thru #19038)	} See page 105
-	70669332	-	RADIATOR ASSY. (Canted tubes. Steel finned) (Standard on tractors #16195 thru #19024)(For replacement order 1 RADIATOR ASSY. 70686209)	
-	70686085	-	RADIATOR ASSY. (Copper finned)(Standard on tractors #19039 and up)	
-	70686209	-	RADIATOR ASSY. (Steel finned)(Replacement for tractors #16195 thru #19024)	
1	70654096	1	CAP ASSY., filler	
	70682843	1	GASKET, cap	
2	70654098	1	CHAIN, filler cap	
3	70666831	1	TANK (Radiators 70666955 and 70669332)	
	70686370	1	TANK (Radiators 70686085 and 70686209)	
	70922843	56	CAPSCREW, 5/16"NC x 1-1/4"	
	70910286	56	LOCKWASHER, 5/16"	
	70911025	56	NUT, 5/16"NC	
4	70686367	1	CORE ASSY. (Radiators 70686085 and 70666955)(Copper finned)	
	70686368	1	CORE ASSY. (Radiators 70669332 and 70686209)(Steel finned)	
5	70083599	2	GASKET, core	
6	70668276	8	CLAMP, core flange	
7	70083065	2	CLAMP, core center (Used with Radiator 70666955)	
	70903772	4	CAPSCREW, 5/16"NC x 1"	
	70904205	4	LOCKWASHER, 5/16"	
8	70083068	1	TANK, bottom	
	70922843	56	CAPSCREW, 5/16"NC x 1-1/4"	
	70910286	56	LOCKWASHER, 5/16"	
	70911025	50	NUT, 5/16"NC	
9	70083073	2	SIDE	
10	70083069	4	GUSSET, corner (Upper left and lower right)	
	70921566	8	CAPSCREW, 5/16"NC x 1"	
	70910286	8	LOCKWASHER, 5/16"	
	70911025	8	NUT, 5/16"NC	
11	70083070	4	GUSSET, corner (Upper right and lower left)	
	70921566	8	CAPSCREW, 5/16"NC x 1"	
	70910286	8	LOCKWASHER, 5/16"	
	70911025	8	NUT, 5/16"NC	

(Revised January 1976)



RADIATOR AND MOUNTING

T-74634

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	RADIATOR ASSY. (See page 103)
2	70660606	2	SHIM, adjusting, support collar (1/32" thick) } Use as required
	70660480	1	
3	70660387	1	COLLAR, radiator supporting
	70921556	4	CAPSCREW, 1/2"NC x 2"
	70912441	4	LOCKWASHER, 1/2"
	70677008	4	WASHER, plain
4	70095575	1	RING, cushion
5	70061671	16	SNUBBER, vibration, radiator mounting
6	70061655	8	TUBE, spacing, vibration snubber
7	70061656	8	WASHER, vibration snubber
8	70929071	8	CAPSCREW, 3/8"NC x 2-3/4"
	70910287	8	LOCKWASHER, 3/8"
	70023756	2	WIRE, locking, 1/16"
9	70081627	1	GASKET, outlet elbow
10	70661354	1	ELBOW, radiator outlet
	70921076	2	CAPSCREW, 3/8"NC x 1-1/4"
	70927446	2	CAPSCREW, 3/8"NC x 3"
	70910287	4	LOCKWASHER, 3/8"
11	70073539	2	HOSE, inlet tube
	70921914	4	CLAMP, hose 2-5/16" to 3-1/4" diam.
12	70660700	1	TUBE, engine inlet
13	70650224	2	BAFFLE, air, radiator bottom (For standard radiator)(Not used when special radiator grid is installed)
	70650223	2	
	70929662	4	WASHER
14	70081611	2	BAFFLE, air, radiator side (Not used when special radiator grid is installed)
	70915813	6	CAPSCREW, 5/16"NC x 7/8"
	70904205	6	LOCKWASHER, 5/16"
	70911025	6	NUT, 5/16"NC
	70092665	6	WASHER, plain
14A	70669533	1	GRID, radiator protecting (Special. Used with canted tube radiator when operating under extreme abrasive conditions)
	70927373	6	CAPSCREW, 5/16"NC x 7/8"
	70910286	6	LOCKWASHER, 5/16"
	70911025	6	NUT, 5/16"NC
	70677005	6	WASHER, plain
15	70667438	1	SUPPORT, radiator
	70037573	4	CAPSCREW, 5/8"NC x 2-3/4" } Tractors prior to #16121
	70064810	4	WASHER, plain
	70921170	4	CAPSCREW, 3/4"NF x 2-1/2" } Tractors #16121 and up
	70677012	4	WASHER, plain
16	70081614	1	GASKET, radiator inlet

(Continued)

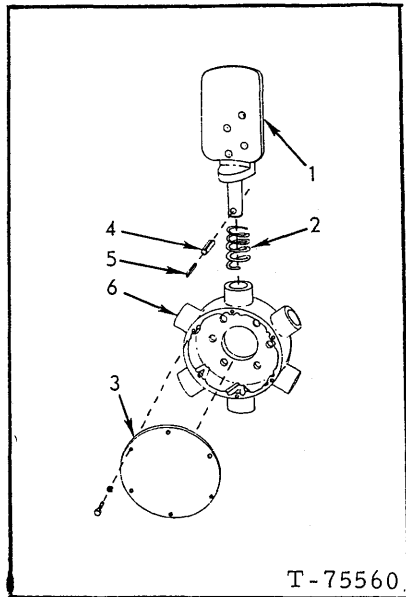
RADIATOR AND MOUNTING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	70082608	1	INLET, radiator
	70922763	4	CAPSCREW, 3/8"NC x 1"
	70910287	4	LOCKWASHER, 3/8"
18	70067884	2	HOSE, inlet tube
	70921914	4	CLAMP, hose, 2-1/4" to 3-1/4" diam.
19	70660561	1	TUBE, radiator inlet
20	70660557	1	ELBOW, engine outlet
	70927485	2	CAPSCREW, 7/16"NC x 1"
	70914678	2	LOCKWASHER, 7/16"
21	74310257	1	GASKET, outlet elbow
22	70667078	1	GUARD, fan, left section (Tractors prior to unit #19980)
	70692023	1	GUARD, fan, left section (Tractors unit #19980 and up)
	70927212	3	CAPSCREW, Nylok, 3/8"NC x 1"
	70910287	3	LOCKWASHER, 3/8"
	70677006	3	WASHER
23	70667097	1	GUARD, fan, right section (Tractors prior to unit #19980)
	70692022	1	GUARD, fan, right section (Tractor unit #19980 and up)
	70927212	3	CAPSCREW, Nylok, 3/8"NC x 1"
	70910287	3	LOCKWASHER, 3/8"
	70677006	3	WASHER
24	70921076	2	CAPSCREW, 3/8"NC x 1-1/4" (Tractors prior to unit #19980)
	70922763	2	CAPSCREW, 3/8"NC x 1" (Tractor unit #19980 and up)
	70928845	4	WASHER, plain, U. S. std., 3/8" } Tractors prior
	70915891	2	NUT, elastic stop, 3/8"NC } to unit #19980
	70677006	2	WASHER (Tractor unit #19980 and up)
25	70060689	2	BOSS, spacing, radiator support brace
26	70668947	1	BRACE, radiator support, left
	70911046	2	NUT, 7/8"NF
	70922744	1	CAPSCREW, 3/4"NC x 2-1/2"
	70914726	1	LOCKWASHER, 3/4"
27	70668948	1	BRACE, radiator support, right
	70911046	2	NUT, 7/8"NF
	70922744	1	CAPSCREW, 3/4"NC x 2-1/2"
	70914726	1	LOCKWASHER, 3/4"
28	70666196	1	HOSE, radiator drain (See HOSE PARTS)
	70919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
	70918951	1	PLUG, pipe, hex-hd., brass, 3/8"NPT

(Revised May 1976)

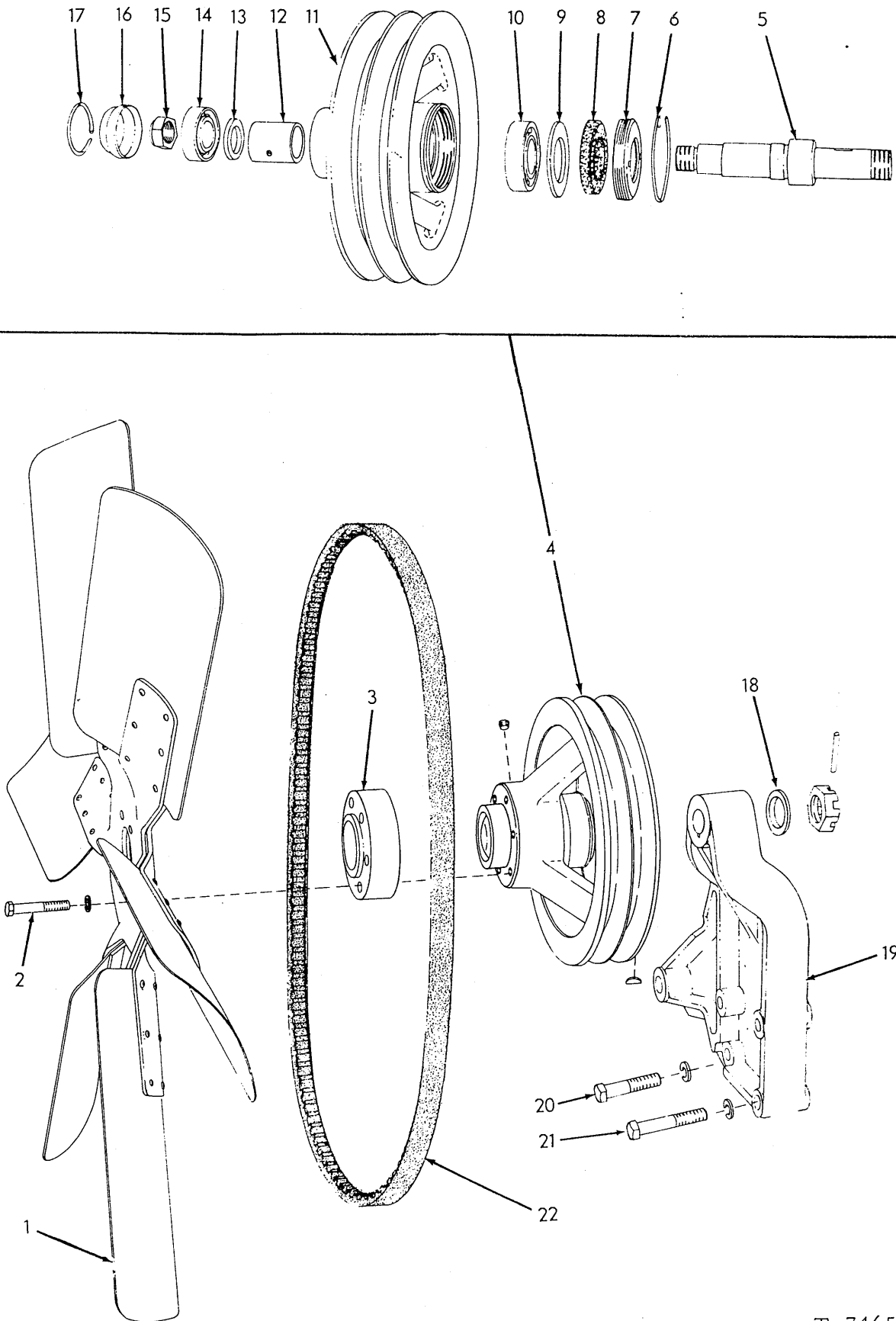
REVERSIBLE FAN PARTS
("Huber")

USAGE: See page 109



ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	6	BLADE (See NOTE below)
2	70668595	6	SPRING
3	70668592	1	COVER, dust
	70926339	6	CAPSCREW, #10-24 x 5/16" (Includes lockwasher)
4	70918623	6	PIN, blade retaining, outer(3/8"O.D.)
5	70927229	6	PIN, blade retaining, inner (7/32"O.D.)
6	-----	1	HUB (See NOTE below)

NOTE: Blade and Hub replacements require precision balancing. Return complete fan to HUBER REVERSIBLE FAN CO., 2103 Hershey Rd., Erie, Pa. 16509.



FAN

T-74653

(Revised April 1977)

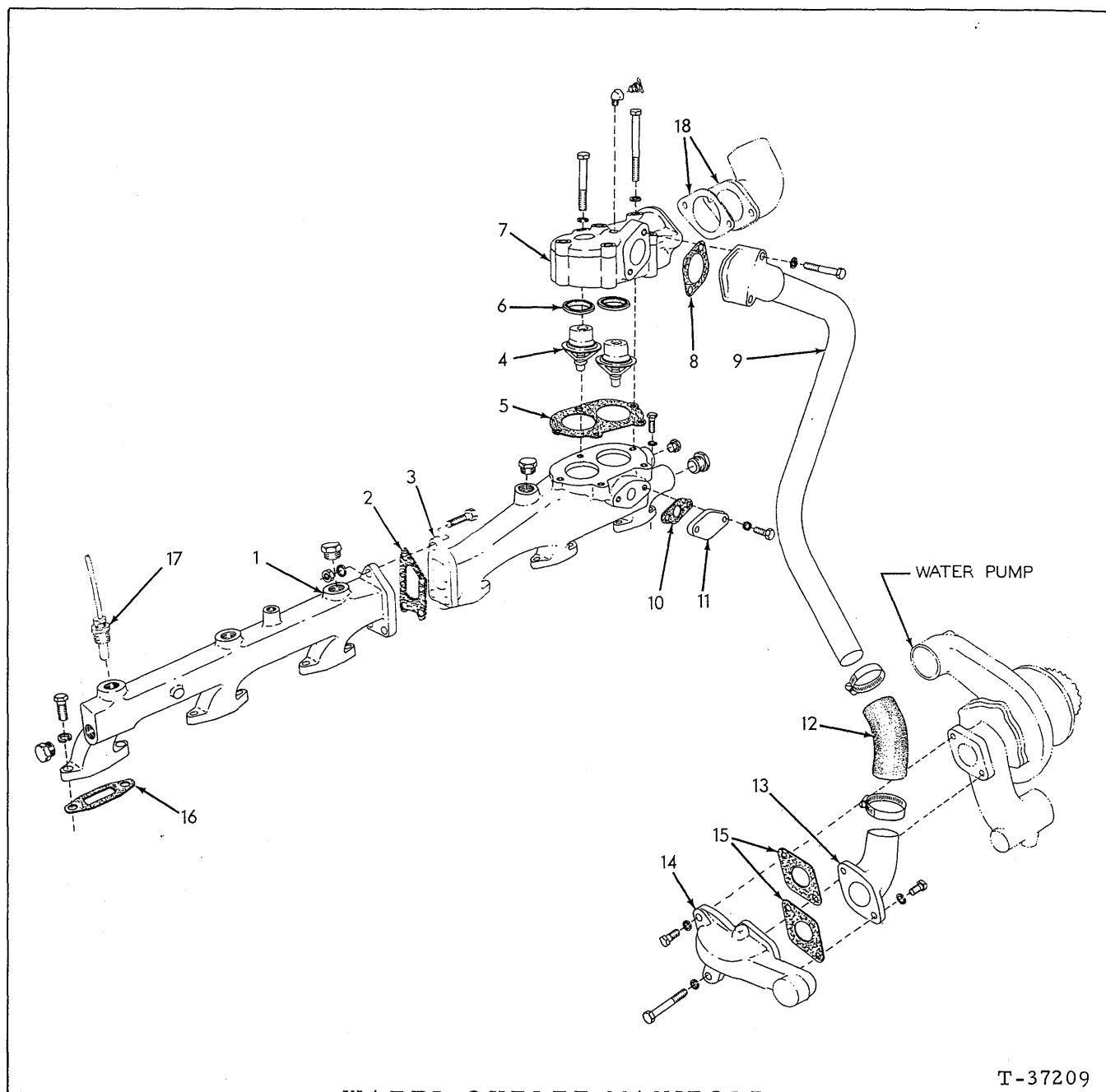
FAN

* Tractors prior to serial No. 16195

** Tractors serial No. 16195 and up

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70685624	1 1	FAN (Push type)(Standard on tractors prior to unit #18567)
	70065777	1 1	FAN (Suction type)(Special equipment)
	70666518	1 1	FAN ASSY. (Reversible)(Standard on tractor unit #18567 and up) (See G-12)
2	70916273	- 6	CAPSCREW, 3/8"NC x 1-3/4" } For push fan
	70013058	6 -	CAPSCREW, 3/8"NC x 1-1/4" }
	70915990	6 -	CAPSCREW, 3/8"NC x 2-3/4" } For suction fan
	70919227	- 6	CAPSCREW, 3/8"NC x 3-1/4" }
	70922763	6 6	CAPSCREW, 3/8"NC x 1" (For reversible fan)
	70910287	6 6	LOCKWASHER, 3/8"
3	70669548	- 1	SPACER, fan (1/2"wide)(For use with push type fan only)
	70083461	1 -	SPACER, fan (1 9/32" wide) } For use with
	70668850	- 1	SPACER, fan (2" wide) } suction fan only
4	70662058	1 -	PULLEY ASSY. (Consists of items 5 thru 17)
	70669558	- 1	PULLEY ASSY. (Consists of items 5 thru 17)(Tractors prior to unit #17542)
	70676699	- 1	PULLEY ASSY. (Consists of items 5 thru 17)(Tractor unit #17542 thru #19827)
	70691913	- 1	PULLEY ASSY. (Consists of items 5 thru 17 and PLUG indented below)(Tractor unit #19828 and up) (Has compressor belt groove)
	70910231	- 1	PLUG, pipe, 1/8"NPT
	70913798	1 1	NUT, jam, slotted, 1-1/4"NF
	70915692	1 1	PIN, roll, 1/4" x 1-7/8"
	70905122	1 1	KEY, #7 woodruff, 1/8" x 1-3/4"
5	70662038	1 1	SPINDLE (Tractors prior to unit #17542)
	70676698	1 1	SPINDLE (Tractor unit #17542 and up)
6	74371707	1 1	RING, snap, fan pulley
7	74640973	1 1	RETAINER, spindle sealing washer
8	70052106	1 1	WASHER, spindle sealing (cork)
9	74640975	1 1	WASHER, retaining, rear bearing
10	70075203	1 1	BEARING, ball, rear
11	70092122	1 -	PULLEY
	70669557	- 1	PULLEY (Tractors prior to unit #19828)
	70691912	- 1	PULLEY (Tractor unit #19828 and up)(Has compressor belt groove)
12	70051715	1 1	SLEEVE, spacing, spindle bearings
13	74640978	1 1	WASHER, spacing, front bearing
14	74253862	1 1	BEARING, ball, front
15	70919108	1 1	NUT, spindle (self-locking, 7/8"NF)
16	70088561	1 1	CAP, pulley
17	74042081	1 1	RING, snap, cap retaining
18	70067962	1 1	WASHER, plain
19	70666760	1 1	BRACKET, fan mounting
20	70924864	1 1	CAPSCREW, 1/2"NC x 2-1/4"
21	70925135	2 2	CAPSCREW, 1/2"NC x 3-1/4"
	70912441	3 3	LOCKWASHER, 1/2"
22	70675096	1 1	BELT SET (Consists of 2 matched belts)

(Revised August 1979)



WATER OUTLET MANIFOLD

T-37209

ITEM	PART NO.	QTY.	DESCRIPTION
1	74393615	1	MANIFOLD, rear (For engines prior to #21-11886 also order 2 PLUGS 70924636)
	70919224	6	CAPSCREW, 3/8" NC x 1-1/8"
	70919226	3	CAPSCREW, 3/8" NC x 1-5/8"
	70904206	9	LOCKWASHER, 3/8"
	70910324	3	NUT, 3/8" NC
	70924636	2	PLUG, hex-hd., 1/2" NPT
2	74392279	1	GASKET, manifold connecting

(Continued)

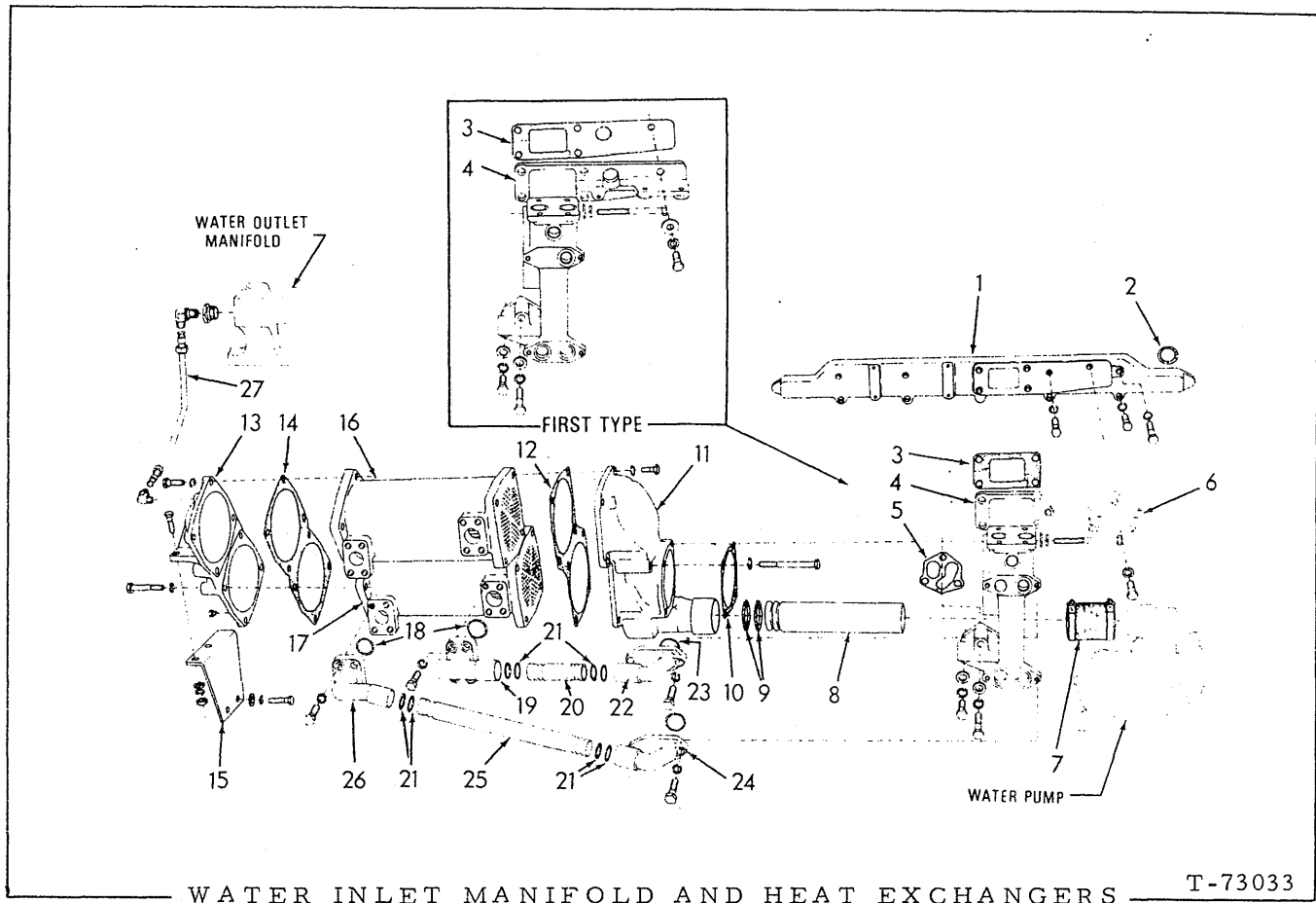
<https://truckmanualshub.com/>
WATER OUTLET MANIFOLD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
3	74393559	1	MANIFOLD, front (When making first replacement also order items 10 and 11)
	70919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	70920416	1	PLUG, pipe, hex-hd., 1/2"NPT
	70920525	1	PLUG, pipe, hex-hd., 3/4"NPT
	70919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	70904206	6	LOCKWASHER, 3/8"
4	74354537	2	THERMOSTAT
5	74376520	1	☐ GASKET, thermostat cover
6	74317554	2	SEAL, thermostat
7	74389036	1	COVER ASSY., thermostat (Includes item 6)
	70918374	1	ELBOW, street, brass, 90°, 1/4"NPT
	70912415	1	COCK, T-handle, 1/4"NPT (For venting air)
	70918395	4	CAPSCREW, 7/16"NC x 3-1/4"
	70918740	1	CAPSCREW, 7/16"NC x 4"
	70904207	5	LOCKWASHER, 7/16"
8	74386137	1	☐ GASKET, water by-pass tube
9	74386891	1	TUBE, water by-pass
	70916274	2	CAPSCREW, 3/8"NC x 2-1/4"
	70904206	2	LOCKWASHER, 3/8"
10	74362458	1	GASKET, manifold cover
11	74313015	1	COVER, front manifold
	70915408	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	2	LOCKWASHER, 3/8"
12	74386894	1	ELBOW, water by-pass tube (rubber)
	70922198	2	CLAMP, hose, 1-9/16" to 2-9/16" diam.
13	74386881	1	ELBOW, water by-pass line
	70916271	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	LOCKWASHER, 3/8"
14	74391237	1	FLANGE, water pump
	70916272	1	CAPSCREW, 3/8"NC x 1-1/4"
	70920275	1	CAPSCREW, 3/8"NC x 3"
	70904206	2	LOCKWASHER, 3/8"
15	74378112	2	☐ GASKET, water pump flange
16	74376483	6	☐ GASKET, manifold to head
17	-----	-	GAUGE, temperature (See INSTRUMENTS)
18	-----	-	ELBOW AND GASKET (See RADIATOR AND MOUNTING)

} Engines prior to #21-13958

} Not original equipment
See item 3

(Revised May 1976)



ITEM	PART NO.	QTY.	DESCRIPTION
1	74393557	1	MANIFOLD, water inlet
	70919231	4	CAPSCREW, 1/2"NC x 1-7/8"
	70916317	3	CAPSCREW, 1/2"NC x 2-3/4"
	70915969	1	CAPSCREW, 1/2"NC x 3" (Also attaches water filter hose bracket)
	70904208	8	LOCKWASHER, 1/2"
	70931239	2	PLUG, expansion, 1-3/8" diam. (Late units)
2	70925612	12	□ O-RING, water inlet manifold
3	74389291	1	□ GASKET, water and oil manifold (Engines prior to #21-12130)
	74389635	1	GASKET, water and oil manifold (Engines #21-12130 and up)
4	74393591	1	MANIFOLD, water and oil (Engines prior to #21-12130)
	74393702	1	MANIFOLD, water and oil (Engines #21-12130 thru #21-13882)
	74394922	1	MANIFOLD, water and oil (Engines #21- 13883 and up)
	70916311	4	CAPSCREW, 1/2"NC x 1-1/4" (1 additional used prior to engine #21-12130)
	70915987	2	CAPSCREW, 1/2"NC x 1-1/2"
	70916320	1	CAPSCREW, 1/2"NC x 4"
	70904208	7	LOCKWASHER, 1/2" }
	70912333	7	WASHER, plain } 1 additional used prior to engine #21-12130)

(Continued)

(Revised January 1976)

WATER INLET MANIFOLD AND HEAT EXCHANGERS (Continued)

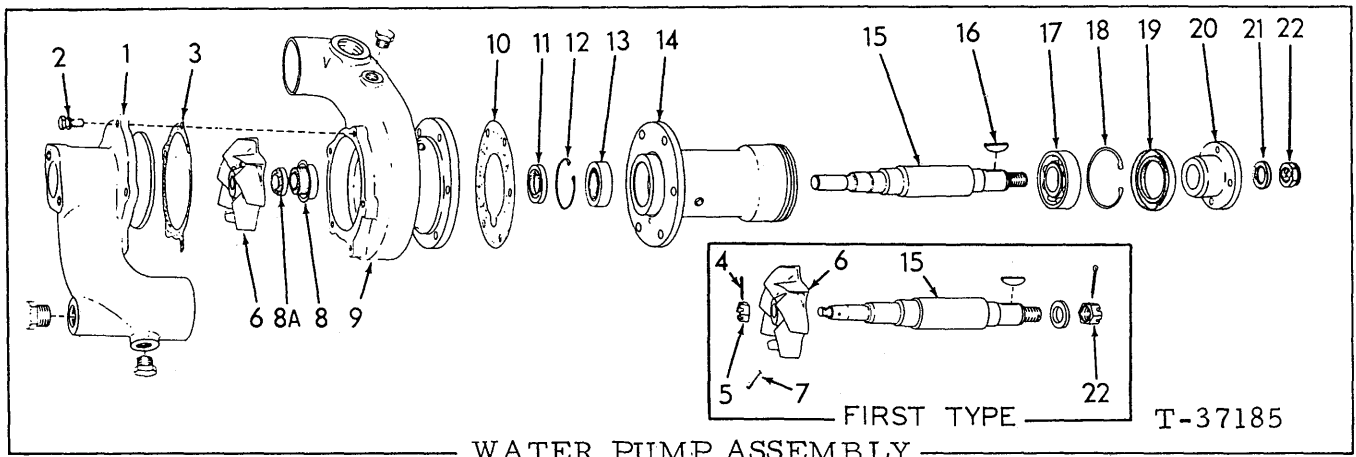
ITEM	PART NO.	QTY.	DESCRIPTION
5	74386495	1	□GASKET, manifold to block
6	74393708	1	BRACKET
	70915987	1	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	1	LOCKWASHER, 1/2"
			} Engines #21-12130 and up
7	74662263	1	HOSE, heat exchanger to water pump
	70922199	2	CLAMP, hose, 2-9/16" to 3-9/16" diam.
8	74388185	1	TUBE, pump to bonnet
9	70923651	2	□O-RING, bonnet tube
10	74371160	1	□GASKET, heat exchanger adaptor
11	74387418	1	ADAPTOR, heat exchanger
	70919294	2	CAPSCREW, 1/2"NC x 4-1/4"
	70915987	6	CAPSCREW, 1/2"NC x 1-3/4"
	70916320	2	CAPSCREW, 1/2"NC x 4"
	70916322	2	CAPSCREW, 1/2"NC x 5"
	70904208	12	LOCKWASHER, 1/2"
	70916009	4	WASHER, plain
			} To exchanger
			} To manifold
12	74389678	1	□GASKET, heat exchanger adaptor
13	74388465	1	BONNET (Cast iron)(Engines prior to #21-13680)
	74394949	1	BONNET (Aluminum)(Engine #21-13680 and up)
	70919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	70916313	4	CAPSCREW, 1/2"NC x 1-3/4"
	70915969	4	CAPSCREW, 1/2"NC x 3"
	70904208	8	LOCKWASHER, 1/2"
	70914987	2	CAPSCREW, 3/8"NC x 1-1/2"
	70911115	4	WASHER, plain
	70904206	2	LOCKWASHER, 3/8"
	70910324	2	NUT, 3/8"NC
			} To heat exchanger
			} To supporting bracket
14	74389676	1	□GASKET, heat exchanger bonnet
15	74387453	1	BRACKET, supporting, heat exchanger
	70922290	2	CAPSCREW, 1/2"NC x 2"
	70910244	2	WASHER, plain, SAE std., 1/2"
	70904208	2	LOCKWASHER, 1/2"
16	74394014	1	EXCHANGER, heat, transmission oil
17	74394188	1	EXCHANGER, heat, engine oil
18	74255781	2	□O-RING, heat exchanger elbows
19	74390591	1	ELBOW, heat exchanger discharge (Engines prior to #21-13785)
	74394953	1	ELBOW, heat exchanger discharge (Engine #21-13785 and up)
	70916191	4	CAPSCREW, 7/16"NC x 1-1/2"
	70904207	4	LOCKWASHER, 7/16"
20	74390595	1	TUBE, heat exchanger discharge
21	74255631	8	O-RING, heat exchanger tubes
22	74390592	1	ELBOW, oil manifold, upper
	70919225	1	CAPSCREW, 3/8"NC x 1-3/8"
	70912069	1	CAPSCREW, 3/8"NC x 2-1/2"
	70904206	2	LOCKWASHER, 3/8"

(Continued)

(Revised May 1976)

WATER INLET MANIFOLD AND HEAT EXCHANGERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
23	74255631	2	□O-RING, oil manifold elbows
24	74390589	1	ELBOW, oil manifold, lower
	70919225	1	CAPSCREW, 3/8"NC x 1-3/8"
	70912069	1	CAPSCREW, 3/8"NC x 2-1/2"
	70904206	2	LOCKWASHER, 3/8"
25	74390594	1	TUBE, heat exchanger intake
26	74390590	1	ELBOW, heat exchanger intake
	70916191	4	CAPSCREW, 7/16"NC x 1-1/2"
	70904207	4	LOCKWASHER, 7/16"
27	74390583	1	TUBE, air bleed
	70917809	2	NUT, Imperial, 1/4" tube
	74255956	2	SLEEVE, Imperial, 1/4" tube
	70919481	2	ELBOW, Imperial, 1/4" tube, 1/4"NPT male
	70901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT



USAGE: See page 117

*Engines prior to No. 21-11619
 **Engine No. 21-11619 thru 21-14797
 ***Service replacement

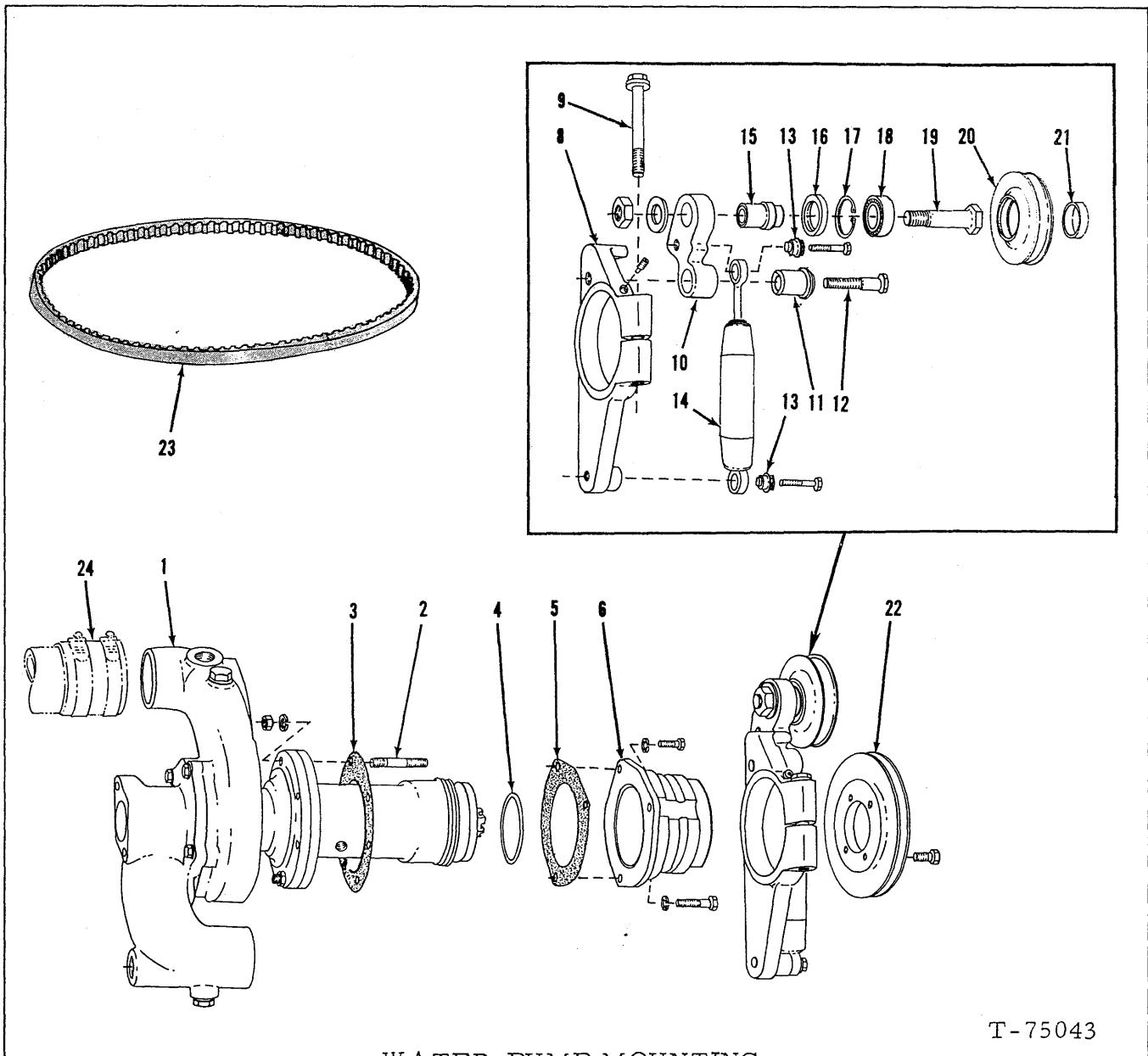
ITEM	PART NO.	QTY.			DESCRIPTION
		* ** ***			
-	74387607	1	-	-	PUMP ASSY., water (Includes items 1 thru 22)
	74394451	-	1	-	PUMP ASSY., water (Includes items 1, 2, 3, 6, and 8 thru 22)
	74396166	-	-	1	PUMP ASSY., water (Includes items 1, 2, 3, 6, and 8 thru 22)
1	74375682	1	1	1	COVER, pump inlet
	70920333	1	1	1	PLUG, pipe, hex-hd., 3/8"NPT
	70920416	1	1	-	PLUG, pipe, hex-hd., 1/2"NPT
2	70923325	4	4	4	CAPSCREW, 5/16"NC x 7/8"
	70917356	4	4	4	LOCKWASHER, 5/16"
3	74372421	1	1	1	GASKET, pump inlet cover
4	74041097	1	-	-	PIN, cotter, impeller retaining nut
5	74375686	1	-	-	NUT, impeller retaining
6	74389359	1	-	-	IMPELLER ASSY. (Includes ceramic insert)
	-----	-	1	-	IMPELLER ASSY. (Includes ceramic insert)
	-----	-	-	1	☐ IMPELLER (Order item 23)
7	74375694	1	-	-	PIN, impeller, retaining
8	74386862	1	1	-	SEAL ASSY.
	-----	-	-	1	☐ SEAL ASSY.
8A	-----	-	-	1	☐ SEAL, ceramic } Order item 24
9	-----	1	1	1	BODY (Not serviced separately)
	70920333	1	1	1	PLUG, pipe, hex-hd., 3/8"NPT
10	74387051	1	1	1	GASKET, pump body
11	74387605	1	1	1	SEAL, oil, rear end
12	70927801	1	1	1	RING, snap, rear bearing
13	74255338	1	1	1	BEARING, roller (rear)
14	74387050	1	1	1	SLEEVE, exterior
15	-----	1	-	-	SHAFT (Order Shaft 74393325 and item 23)
	74393325	-	1	1	SHAFT

(Continued)

WATER PUMP ASSEMBLY (Continued)

ITEM	PART NO.	QTY.			DESCRIPTION
		* ** ***			
16	74660677	1	1	1	KEY, pump shaft
17	73007474	1	1	1	BEARING, ball (front)
18	70927803	1	1	1	RING, snap, front bearing
19	74254948	1	1	1	SEAL, oil, front end
20	74386924	1	1	1	HUB, drive
21	74375691	1	1	1	WASHER, hub, retaining
22	70912331	1	-	-	NUT, slotted, 3/4"NF
	70900808	1	-	-	PIN, cotter, 1/8" x 1-1/2"
	70918182	-	1	1	NUT, self-locking, 3/4"NF (plated)
23	74062269	-	1	1	IMPELLER AND SEAL KIT (Includes items 6, 8, 8A and Instruction Sheet)
24	74062271	-	-	1	SEAL KIT (Includes items 8, 8A and Instruction Sheet)

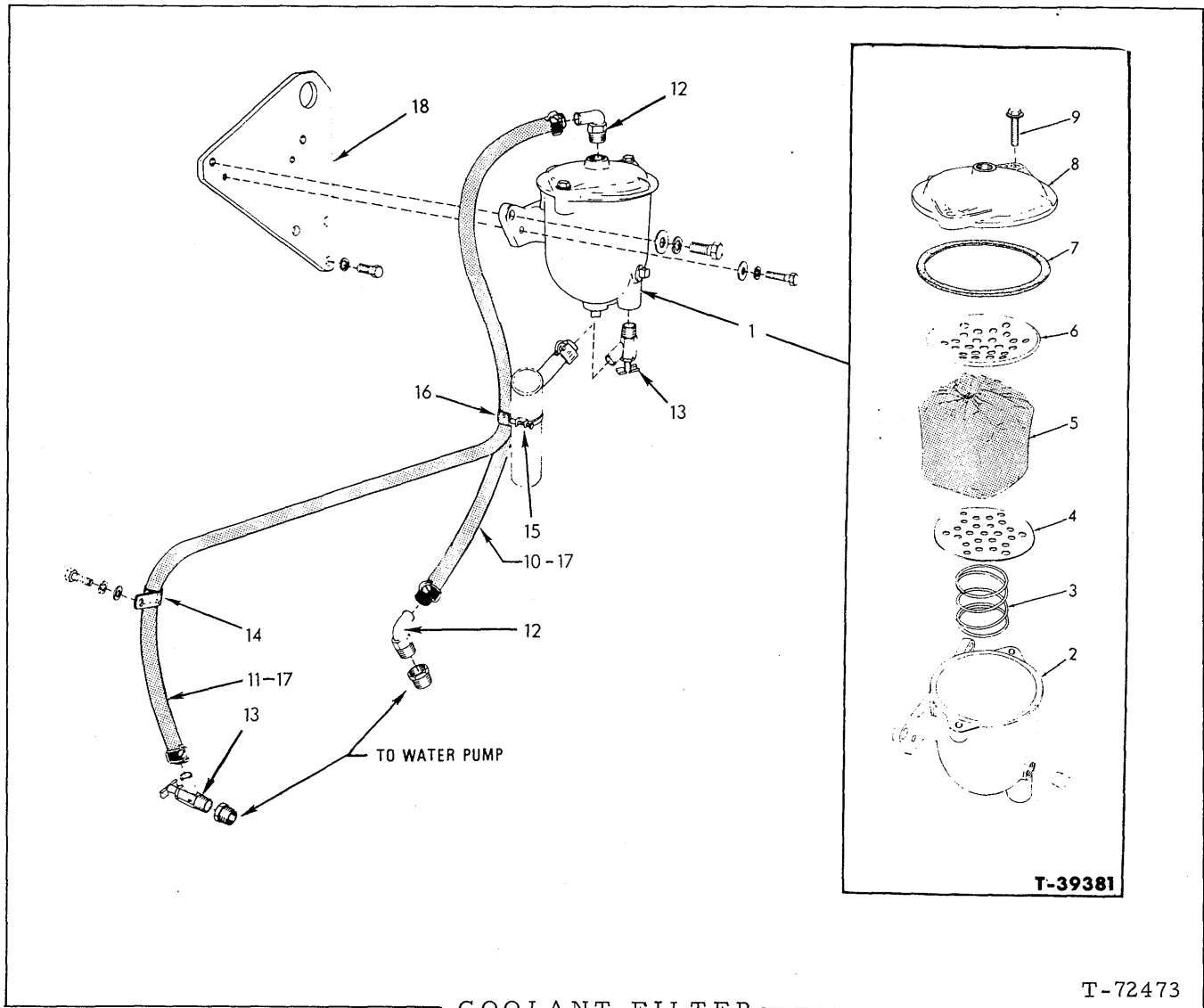
□ Component of item 23



T-75043

WATER PUMP MOUNTING

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PUMP ASSY. (See page 115)
2	74513810	5	STUD, attaching
	70904206	5	LOCKWASHER, 3/8"
	70910123	5	NUT, 3/8"NF
3	74376398	1	☐ GASKET, pump mounting
4	70923935	1	☐ O-RING, pump body
5	74361740	1	☐ GASKET, idler support
6	74391003	1	SUPPORT, belt tightening idler
	70919224	1	CAPSCREW, 3/8"NC x 1-1/8"
	70912069	2	CAPSCREW, 3/8"NC x 2-1/2"
	70904206	3	LOCKWASHER, 3/8"
8	74391950	1	BRACKET, idler mounting
	70913683	1	SETSCREW, hex-socket, dog-pt., 3/8"NC x 1"
9	70924863	1	SCREW, bracket clamping
10	74391949	1	ARM ASSY., idler (Includes item 11)
11	74391933	1	BUSHING, idler arm pivot (flex-type)
12	74391955	1	CAPSCREW, idler arm retaining
13	74391934	2	BUSHING, damper mounting (flex-type)
14	74391938	1	DAMPER ASSY. (Includes item 13)
	70919225	2	CAPSCREW, 3/8"NC x 1-3/8"
15	74390992	1	SHAFT, idler pulley
16	74255839	1	SEAL, oil, idler pulley
17	70927801	1	RING, snap, idler pulley
18	74391154	1	BEARING, ball, idler pulley
19	74390655	1	BOLT, idler pulley
	70910175	1	NUT, jam, 3/4"NF
	70927382	1	WASHER, plain
20	74390995	1	PULLEY, idler
21	74255110	1	CAP, idler pulley
22	74391593	1	PULLEY
	74752002	4	BOLT, self-locking, 3/8"NF x 1/2"
23	74391351	1	BELT, pump driving
24	-----	1	HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)



USAGE: Engines prior to serial No. 21-13958

ITEM	PART NO.	QTY.	DESCRIPTION
1	74359248	1	FILTER ASSY., water (Consists of items 2 thru 9. Has element for use with permanent anti-freeze)
	70920582	2	CAPSCREW, 1/2" NC x 1-1/4"
	70912441	2	LOCKWASHER, 1/2"
	70921422	2	CAPSCREW, 5/16" NC x 1-1/8"
	70677005	2	WASHER, plain
2	74055031	1	BODY, filter
	70920131	2	PLUG, pipe, 3/8" NPT
3	74054569	1	SPRING, filter element
4	74054568	1	PLATE, filter element, lower

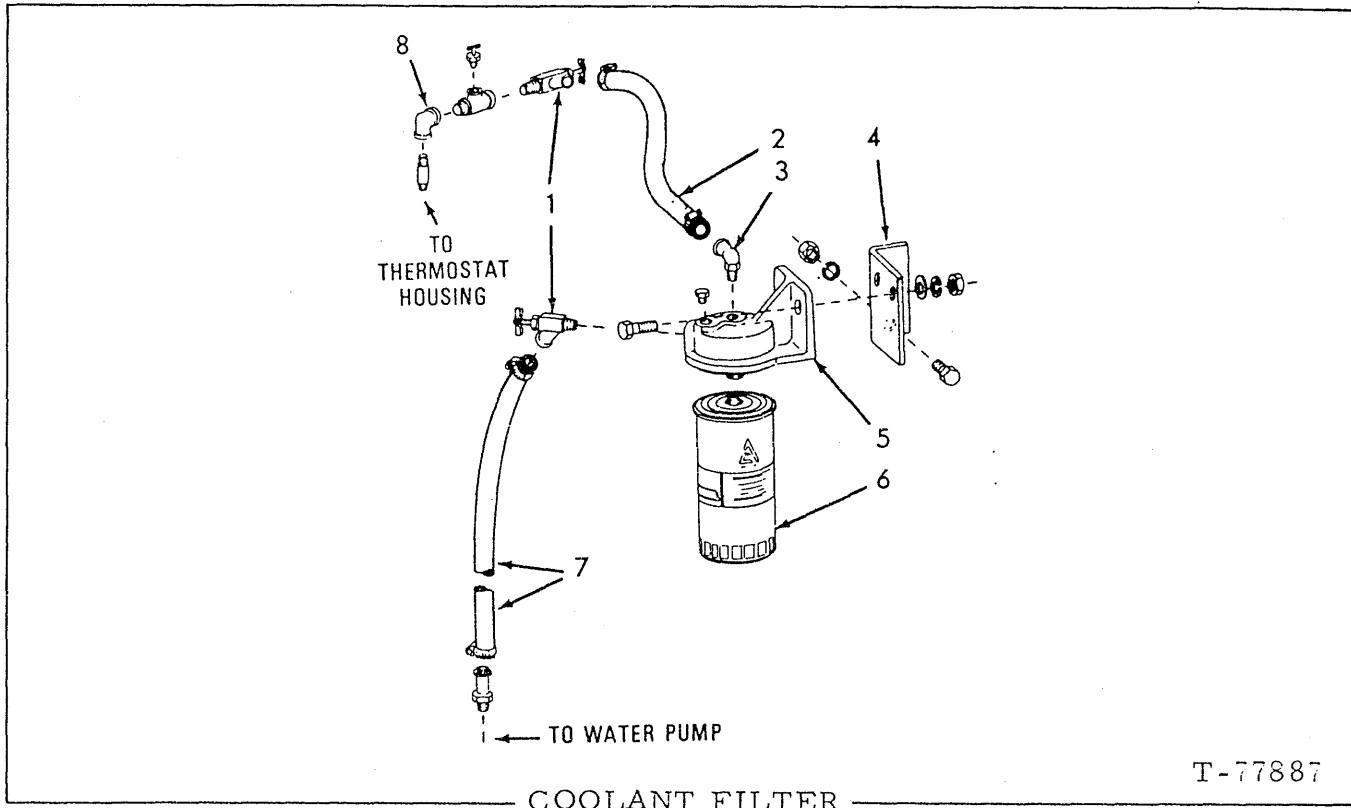
(Continued)

(Revised January 1976)

https://truckmanualshub.com/
COOLANT FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	74059380	1	ELEMENT KIT, filter (Includes items 4, 6 and 7)(Chromate type, for use with "Dowtherm" 209)
	74059979	1	ELEMENT KIT, filter (Includes items 4 and 7)(Original equipment. All-purpose, recommended for use with plain water as well as most type of permanent and non-permanent anti-freeze except "Dowtherm" 209)
6	74055034	1	PLATE, filter element, upper
7	74054566	1	GASKET, filter cover
8	74055032	1	COVER, filter
9	74055033	2	BOLT ASSY., filter cover (Includes washer)
10	-----	1	HOSE, water pump to filter (14-1/2" long. Order item 17)
	70921911	2	CLAMP, hose, 11/16" to 1-1/4" diam.
11	-----	1	HOSE, filter to water pump (44-1/4" long. Order item 17)
	70921911	2	CLAMP, hose, 11/16" to 1-1/4" diam.
12	74255286	2	ELBOW, water hose (90°, 5/8" nipple, 3/8"NPT)
	74142263	1	BUSHING, pipe reducing, 1"NPT to 3/8"NPT
13	74255287	2	VALVE, water shut-off (5/8" nipple, 3/8"NPT)
	70904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
14	70622992	1	CLAMP, water inlet hose
	70677006	1	WASHER, plain,
15	70919789	1	CLAMP, hose binding
16	74388574	1	SLEEVE, hose binding clamp (plastic)
17	70920722	-	HOSE, rubber, 5/8"I. D., 25 ft. roll (Use as required)
18	74392626	1	BRACKET, mounting (Also serves as engine lifter)
	70916311	3	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	3	LOCKWASHER, 1/2"

(Revised April 1977)

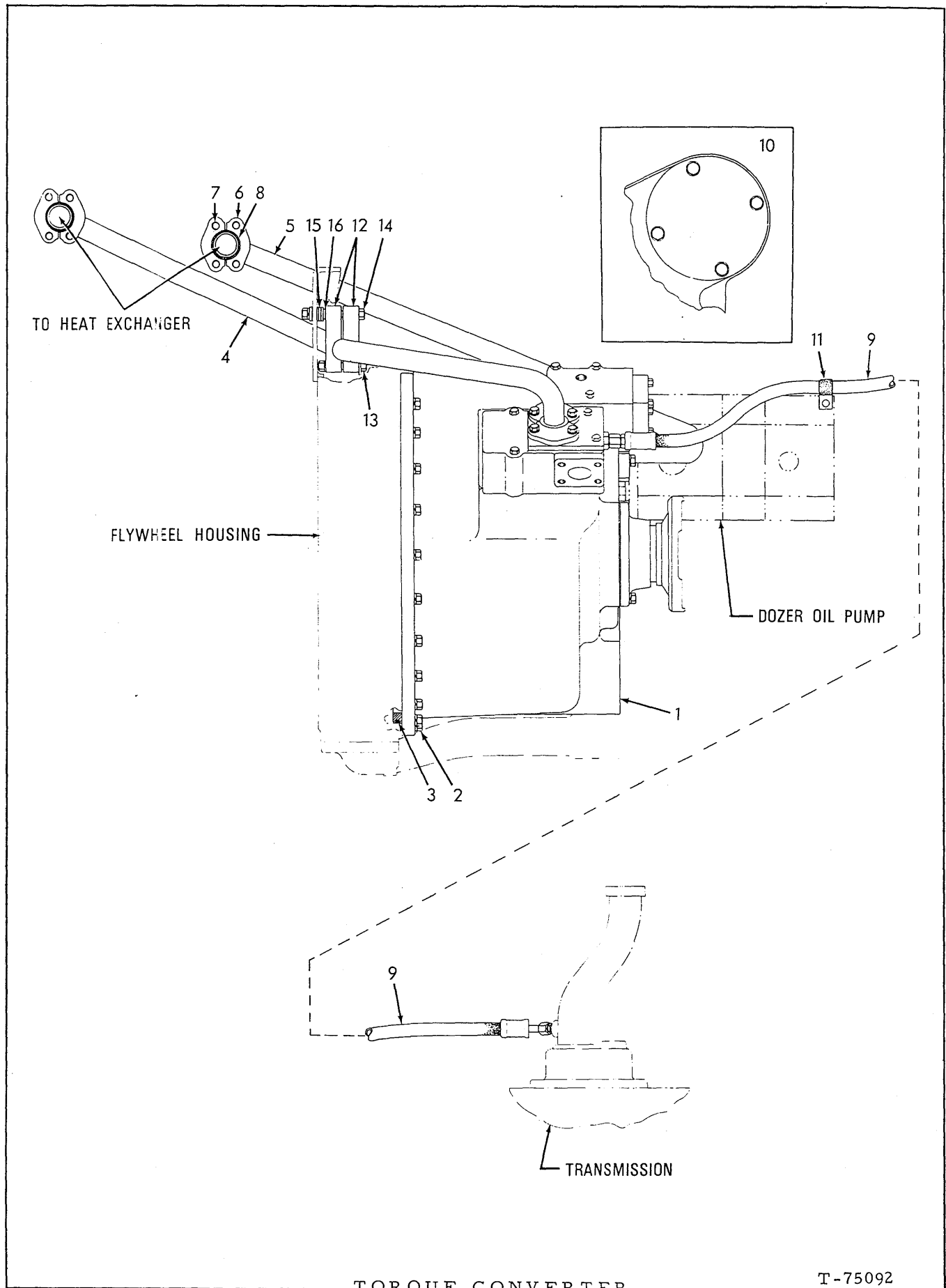


USAGE: Engine S/N 21-13958 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	74255287	2	VALVE, shut-off
2	-----	1	HOSE, 5/8" I.D. (Order 13" of 70920722)(See NOTE)
	70921911	2	CLAMP, 11/16" to 1-1/4" diam.
3	74255286	1	ELBOW, 3/8" NPT
4	74394434	1	BRACKET
	70916197	2	CAPSCREW, 7/16" NC x 1-1/4"
	70904207	2	LOCKWASHER, 7/16"
	70912201	2	NUT, 7/16" NC
5	74393427	1	HEAD ASSY. (Includes plug indented below)
	70919134	1	PLUG, 1/8" NPT
	70916197	2	CAPSCREW, 7/16" NC x 1-1/4"
	70910919	2	WASHER
	70904207	2	LOCKWASHER, 7/16"
	70912201	2	NUT, 7/16" NC
6	74393504	1	FILTER (Original equipment, all purpose, recommended for use with most types of permanent and non-permanent anti-freeze as well as with plain water (except "Dowtherm" 209)
	74393505	1	FILTER (Chromate type, for use with "Dowtherm" 209 anti-freeze)
7	-----	1	HOSE, 5/8" I.D. (Order 25" of 70920722)(See NOTE)
	70921911	2	CLAMP, 11/16" to 1-1/4" diam.
	70925238	1	NIPPLE, 5/8" hose, 3/8" NPT
8	70905014	1	ELBOW (90°, pipe reducing, 3/8" NPT to 1/4" NPT)
	70901478	1	NIPPLE, pipe, 1/4" NPT x 7/8"
	70913257	1	TEE, service, 3/8" NPT
	70916873	1	COCK, 3/8" NPT (air venting)

NOTE: Factory provides 25 foot rolls only. Dealer will provide cut length or full roll.

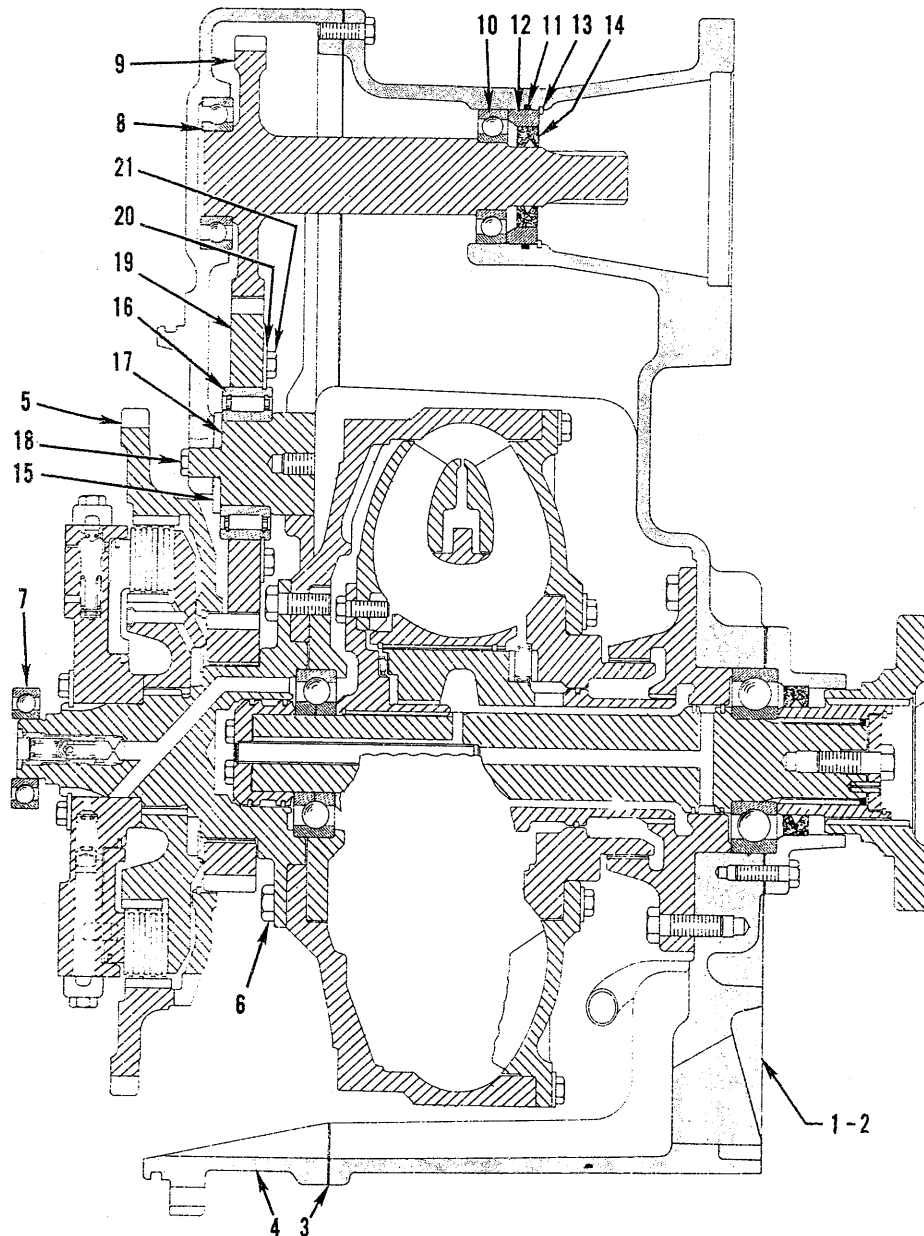
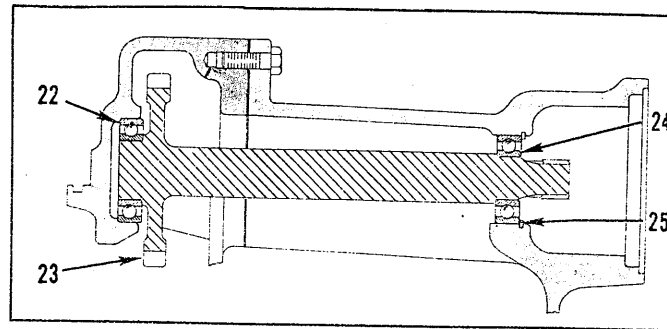
MEMO



<https://truckmanualshub.com/>
TORQUE CONVERTER

ITEM	PART NO.	QTY.	DESCRIPTION
1	70654305	1	CONVERTER ASSY., torque (See page 123 for parts. Includes engine clutch)
2	70927583	19	CAPSCREW, 7/16"NC x 1-3/4" (3 less used on tractors unit #17001 and up)
	70920648	3	CAPSCREW, 7/16"NC x 2" (Tractors unit #17001 and up. Also attaches air cleaner mounting bracket)
	70914678	19	LOCKWASHER, 7/16"
3	70924828	1	☐ O-RING, torque converter to flywheel housing
4	70666791	1	TUBE, converter to heat exchanger
5	70666790	1	TUBE, heat exchanger to converter
6	70921117	8	FLANGE, tube and hose attaching (half only)
7	70921569	16	CAPSCREW, 7/16"NC x 1-1/4"
	70914678	16	LOCKWASHER, 7/16"
8	70923664	4	☐ O-RING, hose flange
9	70664399	1	HOSE, breather line (See HOSE PARTS)
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	70919127	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
10	70666957	1	COVER, dozer pump drive
	70921175	4	CAPSCREW, 1/2"NC x 1" } Standard on units prior to #18567. Not used on
	70912441	4	LOCKWASHER, 1/2" } units with hydraulic dozer.
11	70094467	2	CLIP, breather hose supporting (3/4" diam.)
12	70658514	2	BLOCK, tube supporting
13	70921174	1	CAPSCREW, 3/8"NC x 2-1/2"
14	70924843	1	CAPSCREW, 3/8"NC x 3-1/2"
	70677006	1	WASHER, plain
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
15	70677006	3	WASHER, block spacing (large) }
16	70055914	2	WASHER, block spacing (small) } Use as required

(Revised May 1976)



TORQUE CONVERTER ASSEMBLY 70654305

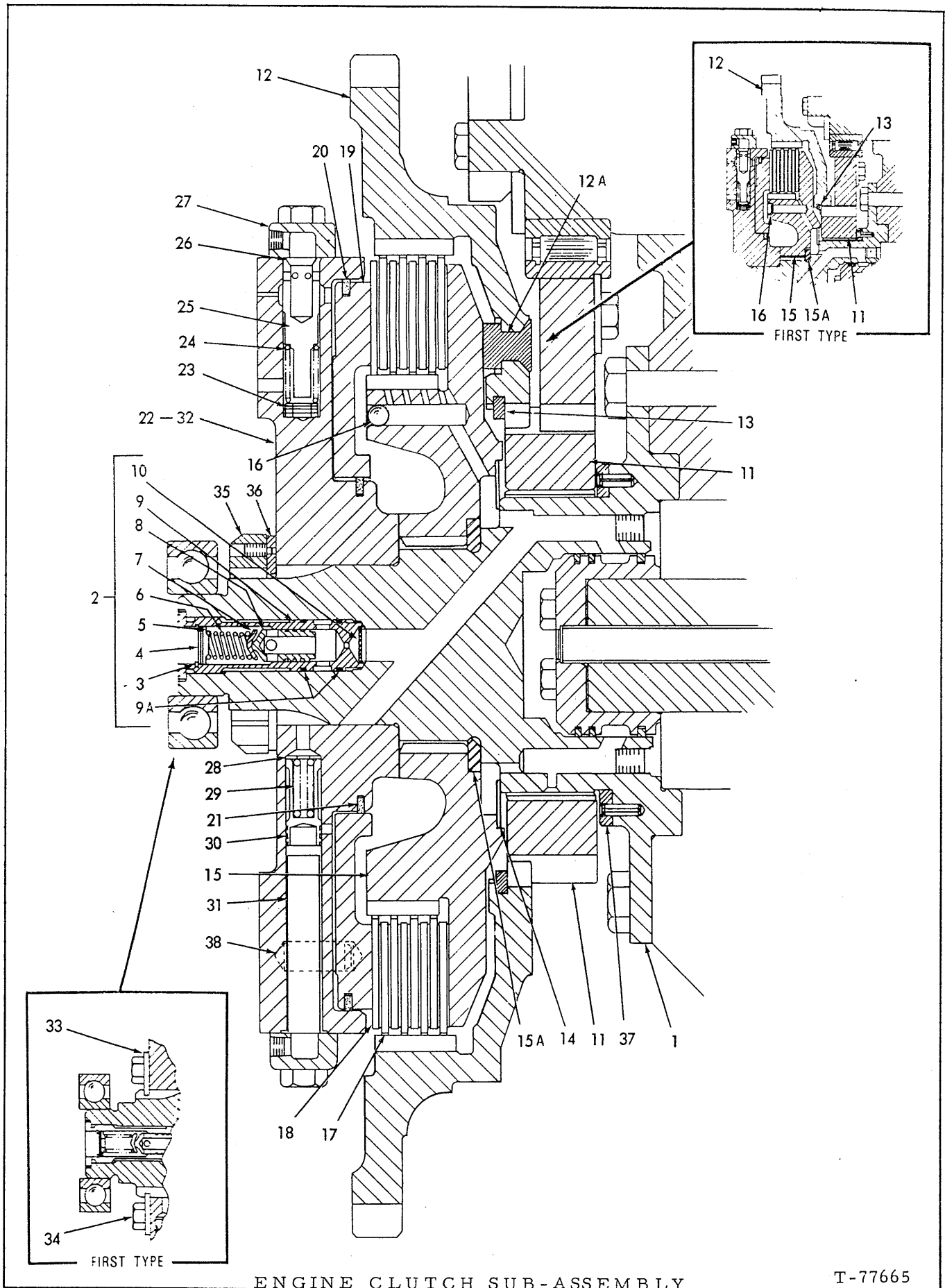
T-75387

TORQUE CONVERTER ASSEMBLY 70654305

USAGE: See page 121

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	TORQUE CONVERTER SUB-ASSEMBLY (See page 129 for parts)
2	70921076	14	CAPSCREW, 3/8" NC x 1-1/4"
3	70657982	1	☐ GASKET, gear housing
4	70657977	1	HOUSING, gear train
5	-----	-	ENGINE CLUTCH SUB-ASSEMBLY (See page 125 for parts)
6	70920582	12	CAPSCREW, 1/2" NC x 1-1/4"
7	70058974	1	BEARING, ball, front
8	70054073	1	BEARING, ball, dozer pump drive, front
9	70657981	1	GEAR, dozer pump drive
10	73007501	1	BEARING, ball, dozer pump drive, rear
11	70935011	1	☐ O-RING, dozer pump drive
12	70657978	1	CARRIER, dozer pump drive o-ring
13	70666069	1	RING, snap, carrier retaining (Converters prior to #225706)
	70931463	1	RING, carrier retaining (Converter #225706 and up)
14	73126342	1	☐ SEAL, oil, dozer pump drive
15	70666071	1	SPACER, idler gear bearing
16	70670411	1	☐ BEARING, roller, idler gear
17	70657991	1	SHAFT, idler
18	73043929	2	CAPSCREW
19	70657958	1	GEAR, idler
20	70657989	2	WASHER, retaining, idler gear (half only)
21	70639534	4	CAPSCREW, self-locking, 3/8" NF x 5/8"
22	70067766	1	BEARING, ball, transmission pump drive, front
23	70666042	1	GEAR, transmission pump drive
24	70656774	1	BEARING, ball, transmission pump drive, rear
25	70056362	1	RING, snap, bearing retaining
☐ Also see PACKAGED PARTS			

(Revised May 1981)



ENGINE CLUTCH SUB-ASSEMBLY

T-77665

ENGINE CLUTCH SUB-ASSEMBLY

USAGE: See page 123

ITEM	PART NO.	QTY.	DESCRIPTION
1	70670629	1	FLANGE, driving (Converters prior to #237180)
	70679143	1	FLANGE ASSY., driving (Includes plug indented below)(Converter #237180 thru #246855)
	70689381	1	☐ FLANGE ASSY., driving (Includes plug indented below) (Converters #246856 and up)
	70676130	2	PLUG, pipe, hex-socket, 1/8" NPT
	70911201	1	KEY, woodruff #E, 3/8" x 1-1/4"
2	70668837	1	☐ VALVE ASSY., check (Consists of items 3 thru 10)
3	70662919	1	RING, snap, check valve
4	70662920	-	WASHER, shimming (.010" thick)
	70656704	-	WASHER, shimming (.024" thick)
	70925966	-	WASHER, shimming (.049" thick)
5	70662918	1	GUIDE, check valve spring
6	70670631	1	SPRING, check valve
7	70662917	1	SEAT, check valve spring
8	70662916	1	PISTON, check valve
9	-----	1	SLEEVE, check valve (Not serviced separately)
9A	70186451	2	O-RING, check valve sleeve
10	70639939	1	SCREEN, filtering, check valve
11	70698911	1	GEAR ASSY., accessory drive (Includes bushing which is not serviced separately)
12	70657975	1	SPIDER (Converters prior to S/N 256501)
	70698909	1	☐ SPIDER ASSY. (Includes item 12A)(Converter S/N 256501 and up)
12A	70698912	6	BUTTON
13	73034873	1	RING, snap, gear retaining (Converters prior to S/N 256501)
	70698913	1	☐ RING, gear retaining (Converter S/N 256501 and up)
14	70658023	1	PLATE, oil baffle
15	70670628	1	HUB ASSY. (Converters prior to S/N 250239)(Includes items 14 and 16)(If for converters prior to #235370 also order item 15A)
	70693929	1	☐ HUB ASSY. (Converter #250239 thru 256500)(Includes items 14 and 16)
	70698910	1	☐ HUB ASSY. (Converter #256501 and up)(Includes items 14 and 16)
15A	70670386	2	☐ WASHER, hub spacing (Half-only)(Effective with Converter #235370)
16	70638767	12	PLUG, core, 7/16" diam.(Converters prior to #250239; also #256601 and up)
	70915904	12	BALL, 5/16" (Converters #250239 thru #256600)
17	70657979	4	PLATE, friction (bi-metallic)
18	70657967	4	PLATE, friction (steel)
19	70657970	1	PISTON, clutch engaging
20	70658931	1	☐ GASKET, piston sealing (outer)

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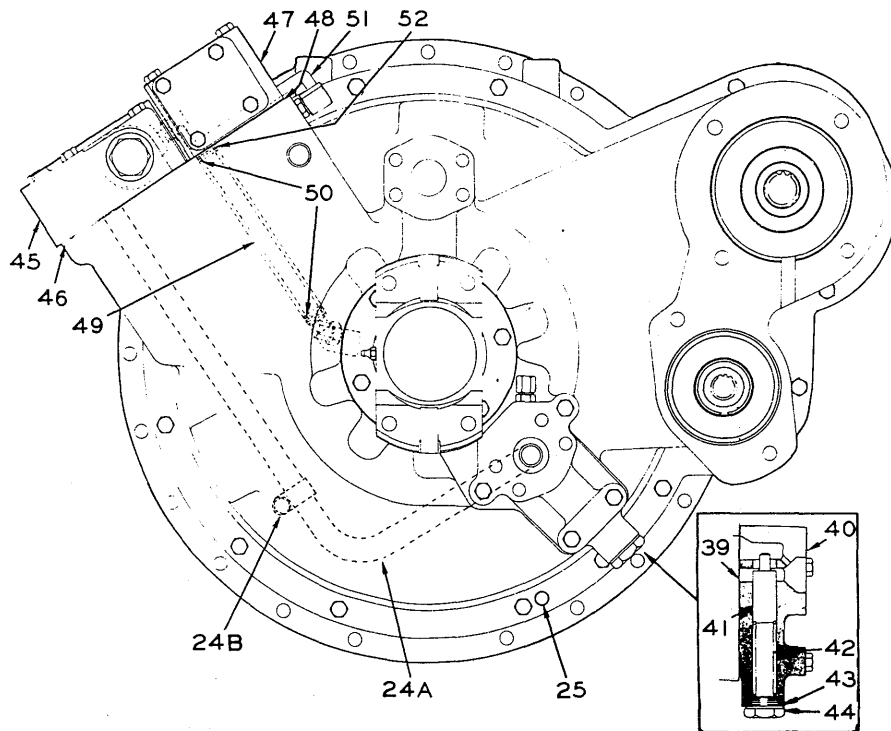
ENGINE CLUTCH SUB-ASSEMBLY (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70666039	1	☐ GASKET, piston sealing (inner)
22	70684749	1	CARRIER ASSY., clutch piston (Includes items 23 thru 32)
23	70656704	-	WASHER, shimmmg (.024" thick)
	70925966	-	WASHER, shimmmg (.049" thick)
} Use as required			
24	70665851	1	SPRING, pressure relief valve
25	70667055	1	PISTON, pressure relief valve
26	70639939	1	FILTER, pressure relief valve
27	70657960	2	CAP (Converters prior to #237180)
	70675282	2	CAP ASSY., relief and overspeed valve (Includes plug indented below)(Converters #237180 and up)
	70927473	2	PLUG, pipe, hex-socket, 1/16"NPT
	70916271	4	CAPSCREW, 3/8"NC x 1"
28	70656704	1	WASHER, overspeed valve
29	70665852	1	SPRING, overspeed valve
30	70661583	1	PISTON, overspeed valve
31	70666036	1	SLEEVE, overspeed valve
32	70684748	1	CARRIER (Includes dowel Pin (item 38) which is not serviced separately)
33	70668279	2	WASHER, retaining, clutch piston carrier (half only)
34	70662973	4	BOLT, self-locking, 5/16"NC x 3/4"
} Converters prior to #246856			
35	70689379	1	☐ NUT, retaining, clutch piston carrier
	70930207	1	☐ SETSCREW
36	70689380	1	☐ WASHER, retaining nut
	70689378	1	☐ WASHER, thrust
	70917947	2	☐ PIN, spring
} Effective with Converter #246856			
38	-----	2	PIN, dowel, piston carrier (Not serviced separately. Order item 32)
☐ Also see PACKAGED PARTS			

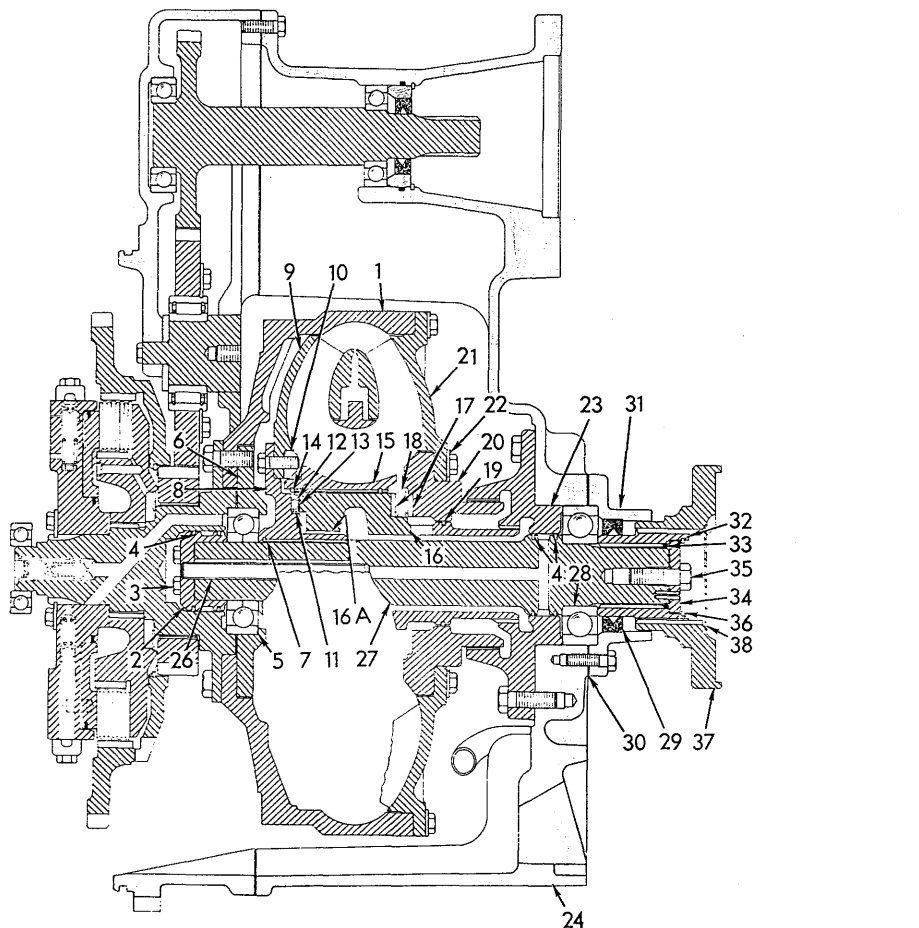
(Revised April 1977)

M E M O

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



T-75133



TORQUE CONVERTER SUB-ASSEMBLY

T-75094

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TORQUE CONVERTER SUB-ASSEMBLY

USAGE: See page 123

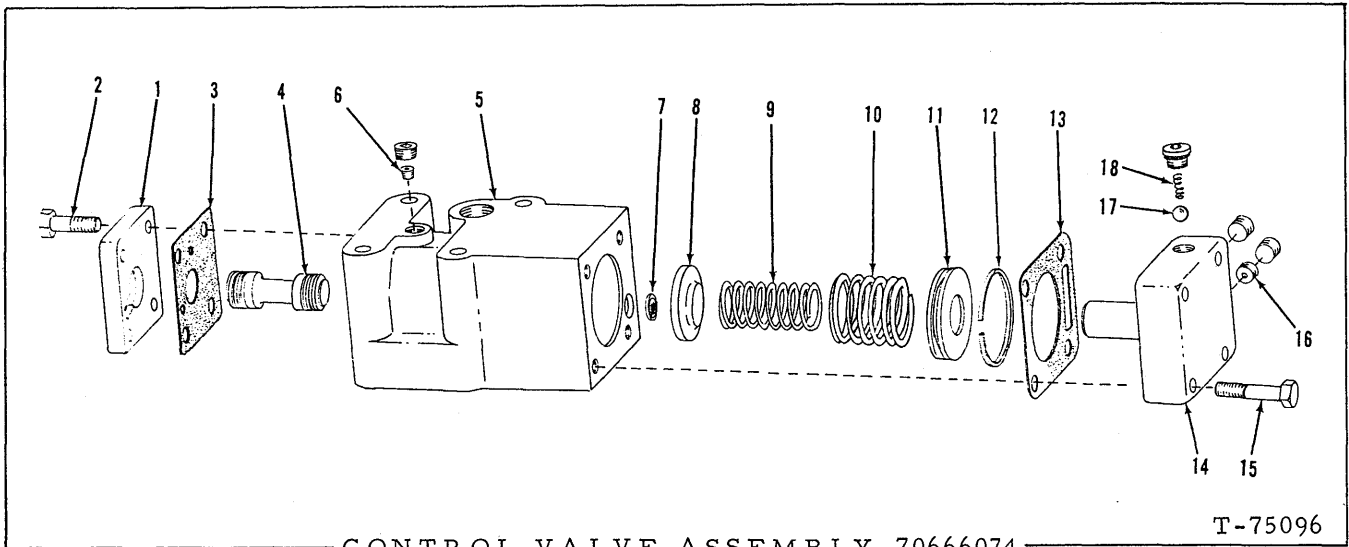
ITEM PART NO. QTY. DESCRIPTION

1	70657949	1	HOUSING, rotating
2	70668281	1	□CARRIER, sealing ring (If for first replacement on Converters prior to #237822 also order 1-RING 70681070)
3	70921566	4	CAPSCREW, 5/16"NC x 1"
4	70681070	5	□RING, sealing, output shaft
5	70186563	1	BEARING, ball, output shaft, front
6	70657944	1	CARRIER, front bearing
7	70186531	1	RING, snap, turbine wheel hub
8	70657947	1	HUB, turbine wheel
	70923276	20	CAPSCREW, 3/8" NF x 1"
9	70657941	1	WHEEL, turbine
10	70657955	1	RING, clamping, turbine wheel
11	70657951	1	RACE, front thrust bearing (front)
12	70658116	1	BEARING, thrust, front
13	70657953	1	RACE, front thrust bearing (rear)
14	70657954	2	RING, snap, guide wheel
15	70657943	1	WHEEL, guide
16	70657945	1	CARRIER ASSY., guide wheel (Includes item 16A)
16A	70689368	1	BUSHING, carrier
17	70657952	2	RACE, rear thrust bearing
18	70658115	1	BEARING, thrust, rear
19	70665771	1	RING, sealing, guide wheel carrier
20	70657948	1	HUB, impeller wheel
21	70657942	1	WHEEL, impeller
	70927173	36	CAPSCREW, 3/8" NC x 1-1/8"
	70657956	36	WASHER, plain
22	70657950	1	PLATE, clamping, impeller wheel
	70922763	12	CAPSCREW, 3/8" NC x 1"
23	70657988	1	SUPPORT ASSEMBLY, guide wheel carrier (Includes bushing which is not serviced separately)
	70920582	7	CAPSCREW, 1/2"NC x 1-1/4"
24	70657985	1	HOUSING ASSY., stationary (Includes items 24A and 24B)
	70926292	1	CONNECTOR, flare-type, 1/4" tube, 9/16"NF male end (Includes O-RING 70921885)
	70921467	1	CAP, flare type, 1/4" tube
24A	70669020	1	TUBE, jumper
24B	70669021	1	CLAMP, tube supporting
	70903628	1	CAPSCREW, 3/8"NC x 5/8"
	70657956	1	WASHER, plain

(Continued)

TORQUE CONVERTER SUB-ASSEMBLY (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	70188309	2	PIN, dowel, stationary housing
26	70657999	1	TUBE, oil
27	70657998	1	SHAFT, output
28	73007389	1	BEARING, ball, output shaft, rear
29	73122336	1	☐ SEAL, oil, rear
30	70658026	1	☐ GASKET, rear seal carrier
31	70657994	1	CARRIER, rear oil seal
	70921076	6	CAPSCREW, 3/8" NC x 1-1/4"
32	70657993	1	ADAPTER, output shaft yoke
33	70926288	1	☐ O-RING, output shaft, rear
34	70658001	1	WASHER, end, output shaft
	70915513	1	PIN, spring, 1/4" x 3/4"
35	70927475	1	CAPSCREW, drilled-hd., 1/2" NC x 1-1/2"
36	70657997	1	RING, snap, output shaft yoke adapter
37	70658002	1	YOKE ASSEMBLY, output shaft (Includes item 38 and FITTING indented below)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
38	70665761	1	PLUG, dust, output shaft yoke
39	70657980	1	☐ GASKET, converter outlet regulator valve
40	70657976	1	BODY, converter outlet regulator valve
	70927446	4	CAPSCREW, 3/8" NC x 3"
	70923163	1	CONNECTOR, flare type, 1/4" tube, 7/16" NF male end (Includes O-RING 70921883)
	70921467	1	CAP, flare type, 1/4" tube
41	70676091	1	PISTON, converter outlet regulator valve
42	70657990	1	SPRING, converter outlet regulator valve
43	73035090	1	WASHER, regulator valve plug
44	73035073	1	PLUG, regulator valve
45	70677065	1	VALVE ASSEMBLY, pressure regulating and cold oil by-pass (See page 132 for parts)
	70927446	4	CAPSCREW, 3/8" NC x 3"
46	70657983	1	☐ GASKET, pressure regulating valve
47	70666074	1	VALVE ASSY., control, modulating clutch (See page 131 for parts)
	70924843	4	CAPSCREW, 3/8" NC x 3-1/2"
48	70658008	1	☐ GASKET, modulating clutch valve
49	70657992	1	TUBE, oil supply, modulating clutch
50	70923561	2	☐ O-RING, oil supply tube
51	70657987	1	TUBE ASSY., housing to pressure regulating valve (Includes nuts)
	70925983	2	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16" male thd.
	70929457	2	☐ O-RING, elbow sealing
52	70695518	1	FILTER, screen (Effective Converter S/N252004)



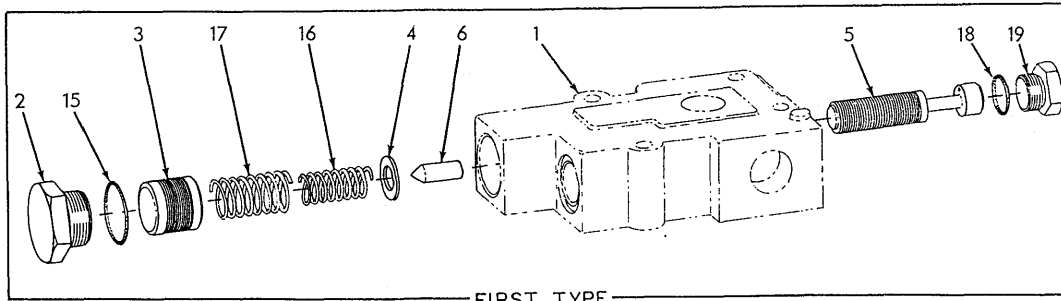
CONTROL VALVE ASSEMBLY 70666074

T-75096

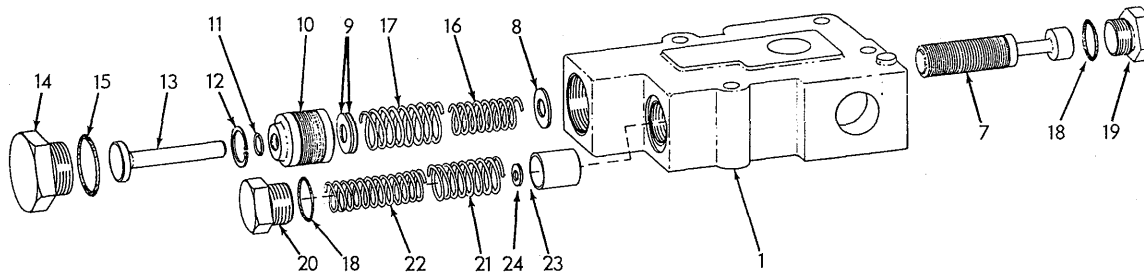
USAGE: See page 130

ITEM	PART NO.	QTY.	DESCRIPTION
1	70659129	1	CAP, end, valve body
2	70921566	4	CAPSCREW, 5/16"NC x 1"
3	70658010	1	□ GASKET, lower cover
4	70658013	1	SPOOL, valve
5	70658004	1	BODY
	70917673	1	PLUG, pipe, hex-socket, 1/8"NPT
6	70188168	1	PLUG, body
7	70639939	1	FILTER, oil
8	70658019	1	SEAT, spring
9	70658018	1	SPRING, inner
10	70658017	1	SPRING, center
11	70658011	1	PISTON
12	73034905	1	RING, piston
13	70658009	1	□ GASKET, upper cover
14	-----	1	COVER ASSY. (Includes pin)(First type. Order COVER 70687659, PLUG 70929792, O-RING 70927555)
	70917673	3	PLUG, pipe, hex-socket, 1/8"NPT
	70687659	1	COVER ASSY. (Includes pin)(Second type)
	70917673	2	PLUG, pipe, hex-socket, 1/8"NPT
	70929792	1	PLUG, hex-socket, 3/8"NF straight thd.
	70927555	1	O-RING, plug
15	70920660	4	CAPSCREW, 5/16"NC x 1-1/2"
16	70661237	1	PLUG, orifice, upper cover
17	70915904	1	BALL
18	70658005	1	SPRING

(Revised May 1976)



FIRST TYPE



PRESSURE REGULATING VALVE ASSEMBLY 70677065 T-76866

USAGE: See page 130

ITEM PART NO. QTY. DESCRIPTION

1	-----	1	BODY (Not serviced separately)
2	-----	1	PLUG, pressure regulating section
3	-----	1	PISTON, pressure regulating section, short
4	-----	1	WASHER, piston spring
5	-----	1	PISTON, pressure regulating section, long
6	-----	1	PIN, stop, pressure regulating piston
7	70681223	1	PISTON, pressure regulating section, long (If for Converters prior to #241770 also order item 8)
8	73037730	1	WASHER, piston spring (If for Converters prior to #241770 also order item 7)
9	{ 70680899 70689371	-	{ WASHER, shimming (.065" thick) WASHER, shimming (.030" thick)
10	70680818	1	PISTON, pressure regulating section, short
11	70923565	1	O-RING, piston to rod
12	70928445	1	RING, retaining
13	70680820	1	PIN, piston stop
14	70680819	1	PLUG, pressure regulating section
15	70921235	1	O-RING, plug
16	70666082	1	SPRING, short piston, inner

Used prior to
Converter
#241000. Order
items 7 thru 14

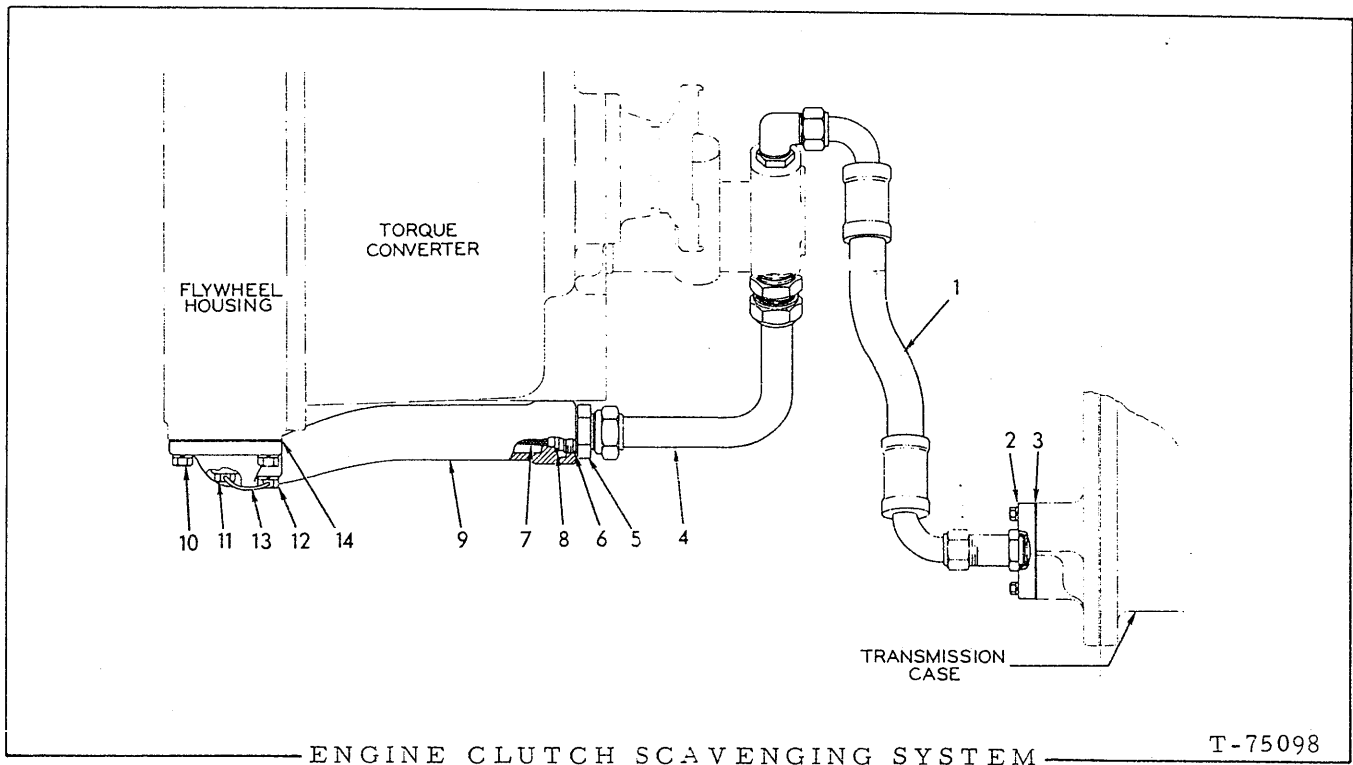
Converter
#241000 and
up

Use as
required

(Continued)

PRESSURE REGULATING VALVE ASSEMBLY 70677065 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	70666081	1	SPRING, short piston outer
18	73041475	2	O-RING, plug
19	70669423	1	PLUG, pressure regulating section (1-1/16"NF thread)
20	70666076	1	PLUG, cold oil relief section
21	70658025	1	SPRING, piston, oil relief sections, outer
22	70659615	1	SPRING, piston, oil relief section, inner
23	73035074	1	PISTON, cold oil relief section
24	70644266	-	WASHER, shimming (Use as required)



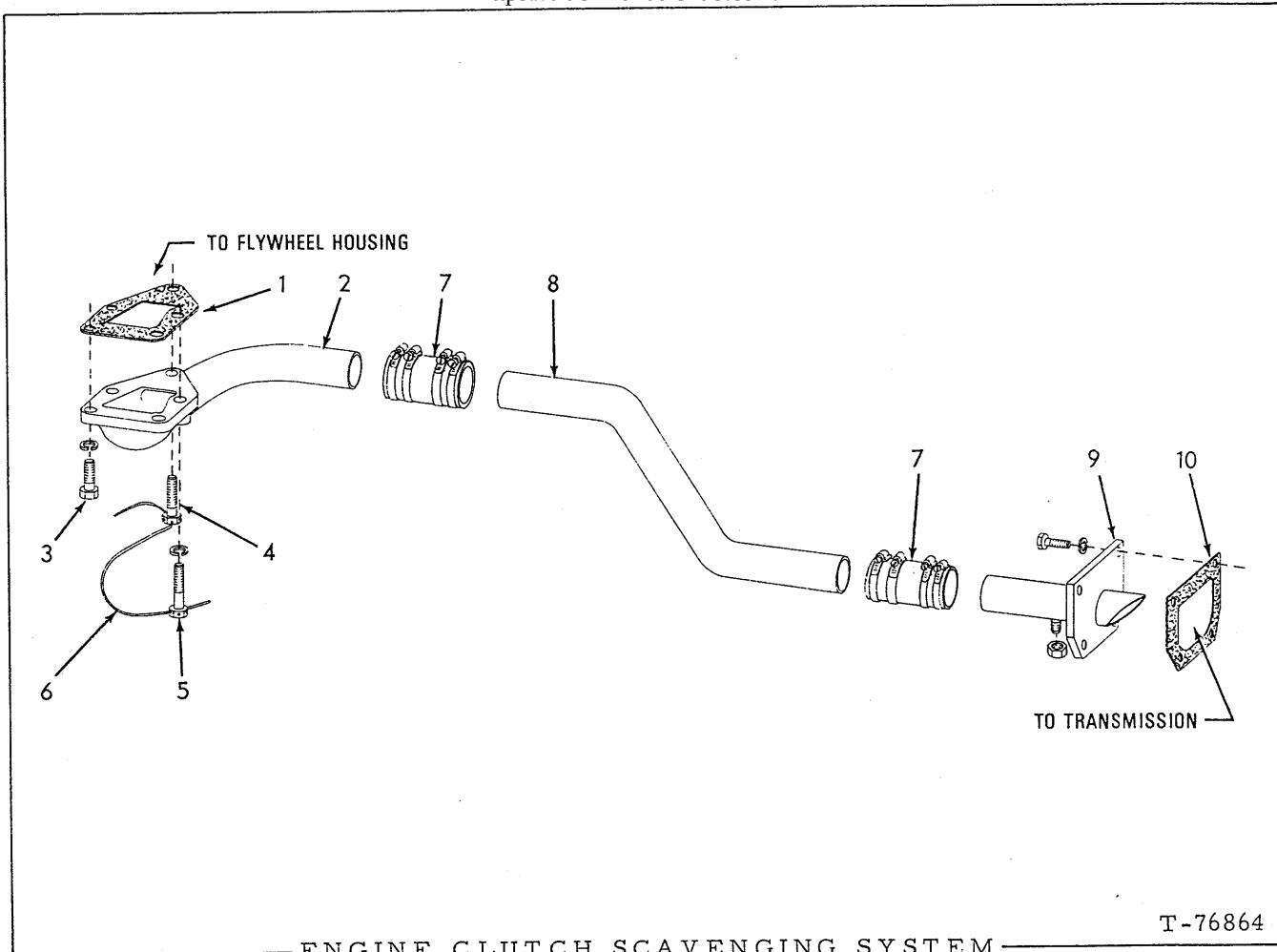
ENGINE CLUTCH SCAVENGING SYSTEM

T-75098

USAGE: Tractors prior to serial No. 16550; also tractors serial No. 10S16551 thru 10S17518 and 10S17579 thru 10S17628

ITEM	PART NO.	QTY.	DESCRIPTION
1	70660876	1	HOSE ASSY., oil return, pump to transmission (See HOSE PARTS)
	70924688	1	CONNECTOR, flare type, 1" tube, 1-5/16" NF (Includes O-RING 70921214) (Units without Automatic Safety Brakes)
	70921227	1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" NF (Includes washer, nut and O-RING 70921214)
	70922739	1	TEE, adjustable, flare type, 1-5/16" str. male thd. (Includes nuts and O-RING 70921214)
	70921214	1	O-RING
2	70662619	1	PLATE, adapting, oil return hose
	70914847	4	CAPSCREW, 3/8" NC x 1-1/2"
	70910287	4	LOCKWASHER, 3/8"
3	70662633	1	□ GASKET, adapting plate
4	70665637	1	TUBE ASSY., oil return, flywheel housing to pump (Includes nuts)
	70922988	1	CONNECTOR, flare type, 1-1/4" tube, 1-5/16" NF (Includes O-RING 70921214)
5	70640575	1	ADAPTER, oil return hose
6	70641109	1	GASKET, oil return hose adapter
7	70641110	1	SCREEN, flywheel housing drain elbow
8	70640663	1	RING, sealing (rubber)
9	70641052	1	ELBOW, drain, flywheel housing
10	70035733	3	CAPSCREW, 1/2" NC x 1-3/8"
11	70054069	1	CAPSCREW, drilled-hd., 1/2" NC x 2"
12	70041481	1	CAPSCREW, drilled-hd., 1/2" NC x 2-1/4"
	70904208	4	LOCKWASHER, 1/2"
13	70023633	1	WIRE, locking, 1/16"
14	70640636	1	□ GASKET, flywheel housing drain elbow

(Revised April 1977)

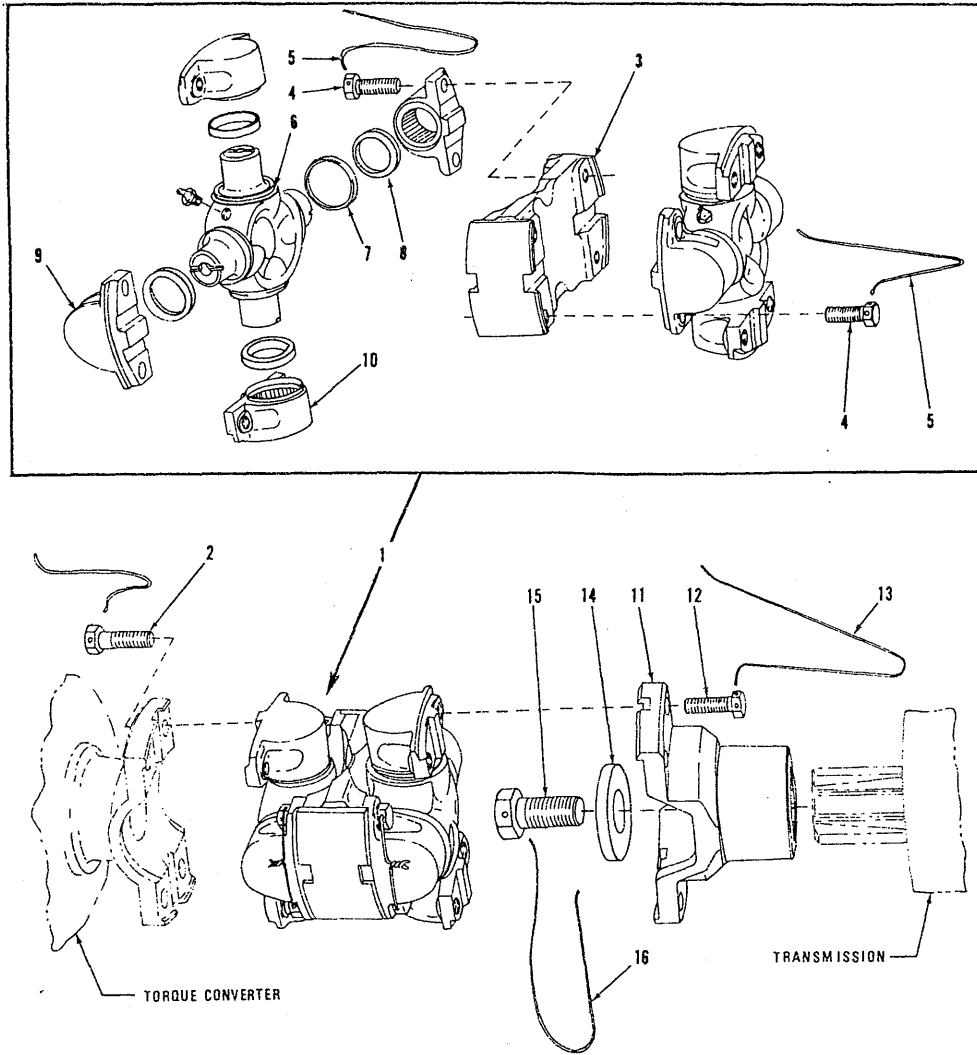


USAGE: Tractor serial No. 10S17519 and up excluding 10S17579 thru 10S17628

ITEM PART NO. QTY. DESCRIPTION

1	70640636	1	☐ GASKET, flywheel housing drain elbow
2	70670634	1	ELBOW, drain, flywheel housing
3	70920574	3	CAPSCREW, 1/2" NC x 1-3/8"
4	70929074	1	CAPSCREW, drilled-hd., 1/2" NC x 2"
5	70929075	1	CAPSCREW, drilled-hd., 1/2" NC x 2-1/4"
	70904208	4	LOCKWASHER, 1/2"
6	70023633	1	WIRE, locking, 1/16"
7	70606384	2	HOSE, tube connector
	70921913	8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
8	70670708	1	TUBE, transmission to flywheel housing
9	70685924	1	PLATE, tube connecting (If first replacement for tractor prior to unit #19110 without automatic safety brakes, also order 1 CAP 70923737)
	70927173	4	CAPSCREW, 3/8" NC x 1-1/8"
	70910287	4	LOCKWASHER, 3/8"
	70923737	1	CAP, flare type, 1/2" tube (Not used on units with automatic safety brakes)
10	70662633	1	☐ GASKET, tube connecting plate

(Revised May 1976)



UNIVERSAL JOINT

T-74957

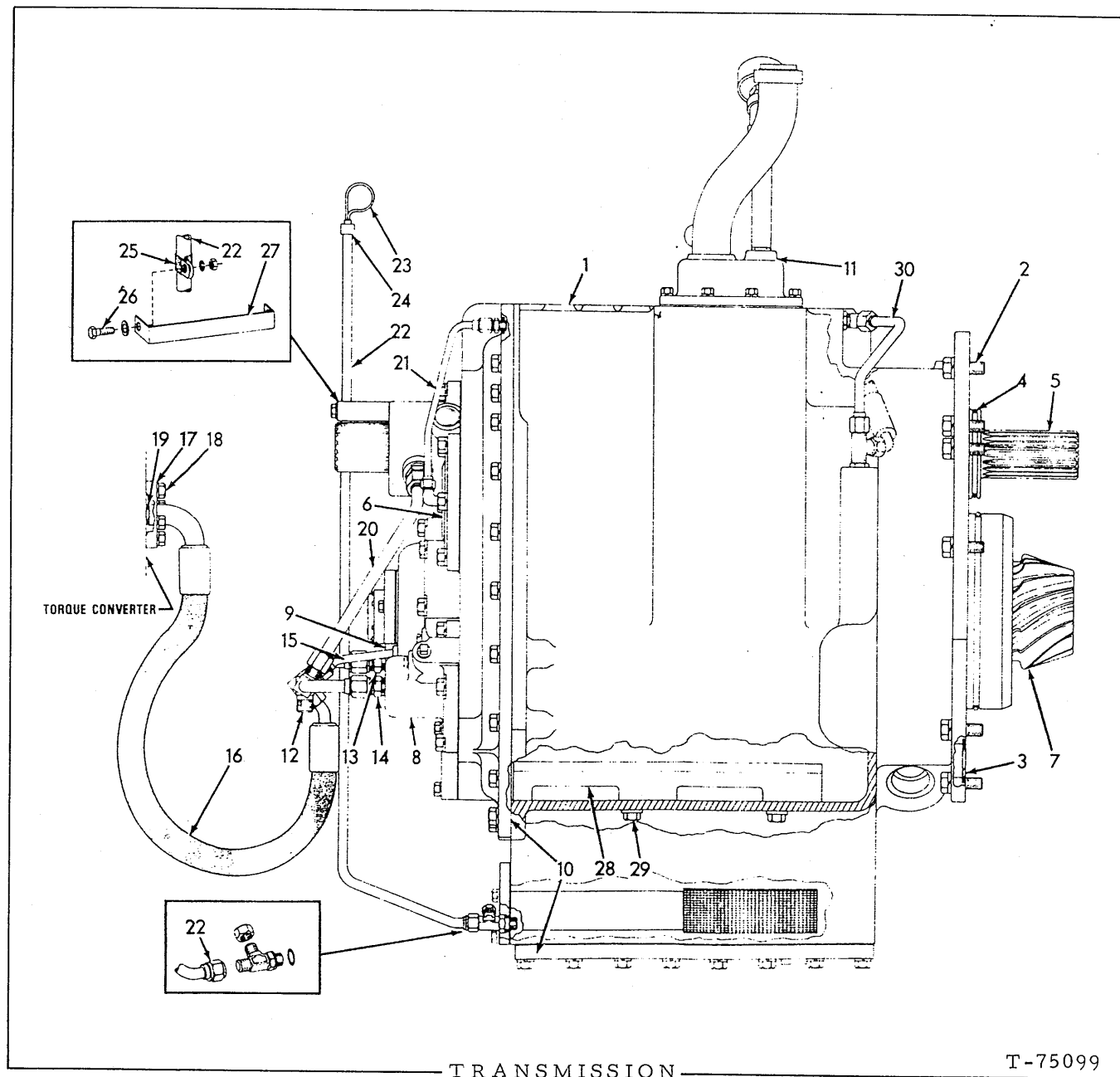
* Tractors prior to serial No. 10S19078
 ** Tractors serial No. 10S19078 and up

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	1 -	JOINT (Order JOINT ASSY. 70681050)
	70681050	- 1	JOINT ASSY., converter to transmission (Consists of items 3, 4 and 6)
2	70035689	4 -	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
	70927574	- 4	CAPSCREW, 1/2"NF x 1-3/8"
	70023633	2 -	WIRE, locking, 1/16" x 12"
3	70667192	1 1	PLATE, connecting
4	70179504	8 -	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
	70682649	- 8	CAPSCREW
	70023633	4 4	WIRE, locking, 1/16" x 12"
6	-----	2 -	SPIDER ASSY. (Order SPIDER ASSY. 70681049)
	70681049	- 2	SPIDER ASSY. (Serviced only as a unit)(Includes Spider and Bearings)
	70912808	2 -	FITTING, lubricating, straight, 1/4"NF
7	70069954	8 -	SHIELD, dust

(Continued)

UNIVERSAL JOINT (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
8	70667191	8	-	WASHER, sealing, spider bearing
9	70667193	4	-	BEARING ASSEMBLY, spider to connecting plate (Serviced only as a unit)
10	-----	4	-	BEARING ASSEMBLY, (Order SPIDER ASSY. 70681049)
11	70628794	1	1	YOKE, rear
12	70035689	4	4	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
13	70023633	2	2	WIRE, locking, 1/16" x 12"
14	70075420	1	1	WASHER, yoke retaining
15	70663468	1	1	CAPSCREW, yoke retaining (drilled hd., 1-1/8"NF x 2-1/8")
16	70023633	1	1	WIRE, locking 1/16" x 12"

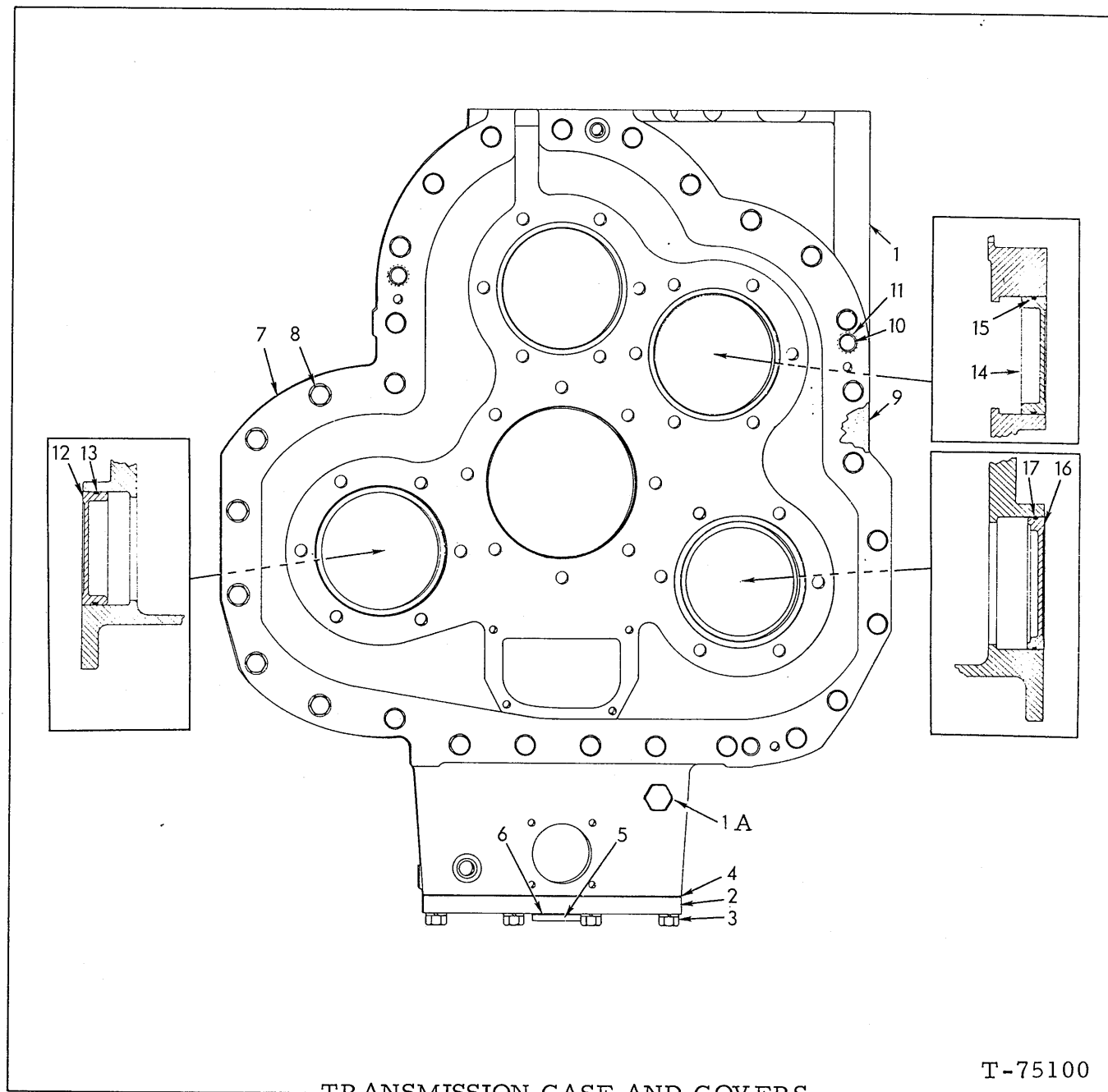


ITEM	PART NO.	QTY.	DESCRIPTION
1	73112628	1	TRANSMISSION ASSY. (Includes items 5 thru 11)
2	70927115	1	SCREW, 12 pt.-hd., Nylok, 5/8"NF x 1-3/4"
	70927190	11	CAPSCREW, Nylok, 5/8"NF x 1-3/4"
	70912942	12	LOCKWASHER, 5/8"
3	70923579	1	O-RING, transmission to final drive case, lower (2" I.D. - Early type)
	70923828	1	☐ O-RING, transmission to final drive case, lower (2-1/2" I.D. - Late type)
4	70923834	1	☐ O-RING, transmission to final drive case, upper
5	-----	-	See TRANSMISSION CLUTCH SHAFT (Forward and Reverse)
6	-----	-	See TRANSMISSION COUNTER-SHAFT
7	-----	-	See TRANSMISSION BEVEL PINION SHAFT

(Continued)

TRANSMISSION (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	-----	-	See TRANSMISSION CLUTCH SHAFT (First Speed)
9	-----	-	See TRANSMISSION CLUTCH SHAFT (Second and Third Speeds)
10	-----	-	See TRANSMISSION CASE AND COVERS
11	-----	-	See TRANSMISSION OIL FILLER AND BREATHER
12	70670692	1	TUBE ASSY., oil jumper (Includes nuts)(Tractor unit #17519 and up excluding #17579 thru #17628)
	70654060	1	TUBE ASSY., oil jumper (Includes nuts)(Tractors prior to unit #17519; also tractor unit #17579 thru #17628)
13	70665687	1	CONNECTOR, right side (restricted)
14	70665688	1	CONNECTOR, left side (restricted)
15	70654002	1	TUBE ASSY., jumper tube to pinion shaft front bearing retainer (Includes nuts)
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4" NPT male
16	70654293	1	HOSE, oil supply, converter to transmission (Tractors prior to unit #17519; also tractor unit #17579 thru #17628)
	70670706	1	HOSE, oil supply, converter to transmission (Tractors unit #17519 and up, excluding #17579 thru #17628)
17	70921117	2	FLANGE, hose attaching (half only)
18	70921569	4	CAPSCREW, 7/16" NC x 1-1/4"
	70914678	4	LOCKWASHER, 7/16"
19	70923664	1	☐ O-RING, hose flange
20	70654277	1	TUBE ASSY., oil jumper tube to top shaft collector
	70921326	1	CONNECTOR, flare type, 5/8" tube, 7/8" NF straight male thread (Includes O-RING)
	70921205	1	O-RING, connector
21	70654061	1	TUBE ASSY., oil supply, counter-shaft front bearing (Includes nuts)
	70922522	1	CONNECTOR, flare type, 3/8" tube, 9/16" NF male end (Includes O-RING)
	70919135	1	ELBOW, flare type, 90°, 3/8" tube, 1/4" NPT male
	70921885	1	☐ O-RING, connector
22	70669217	1	TUBE ASSY., oil level gauge (Includes nuts)
	70922792	1	TEE, adjustable, flare type, 1/2" tube, 3/4" NF (Includes washer, nut and O-RING)
	70923737	1	CAP, flare type, 1/2" tube (Not used on units equipped with Automatic Safety Brakes)
	70921349	1	O-RING, tee
	70653980	1	GAUGE ASSY., oil level (Includes item 24)(Units without Automatic Safety Brakes)
23	70670176	1	GAUGE ASSY., oil level (Includes item 24)(Units with Automatic Safety Brakes)
	74506607	1	SEAL, oil level gauge (cork)
25	70094527	1	CLIP, tube supporting
26	70922300	1	CAPSCREW, 3/8" NC x 3/4"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8" NC
27	70652613	1	ANGLE, tube supporting
28	70663343	1	BAFFLE, oil
29	70927361	4	CAPSCREW, Nylok, 3/8" NC x 1-1/4"
	70928845	4	WASHER
30	70662549	1	TUBE ASSY., oil return, inhibitor valve (Includes nuts)
	70922507	1	ELBOW, adjustable, 45°, flare type, 1/2" tube, 3/4" NF (Includes washer, nut and O-RING)
	70921349	1	O-RING, elbow



T-75100

TRANSMISSION CASE AND COVERS

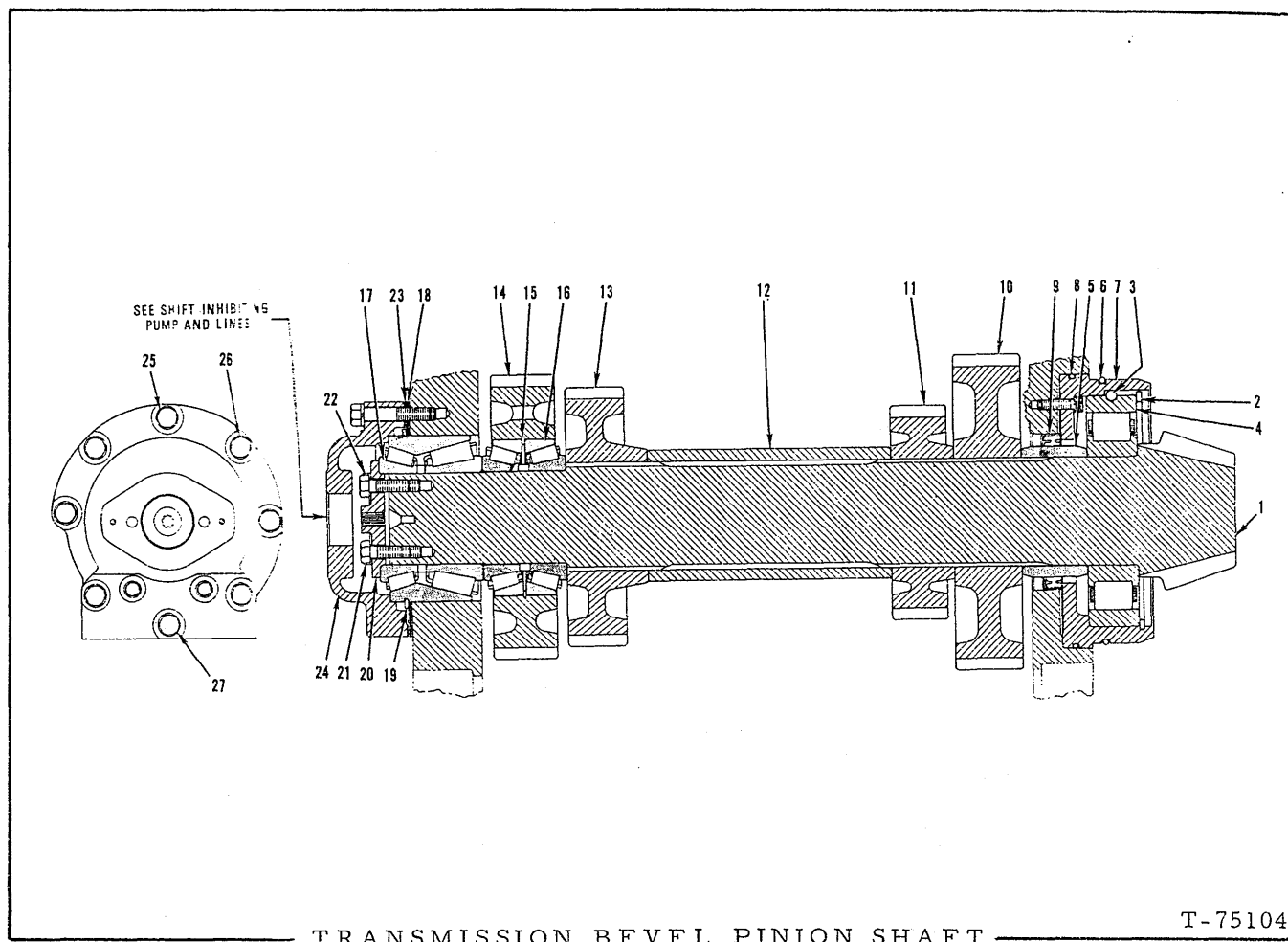
ITEM	PART NO.	QTY.	DESCRIPTION
1	70654191	1	CASE, transmission
1A	70923168	1	PLUG (Includes O-RING)(Late units)
	70921887	1	O-RING
2	70654105	1	COVER, bottom
3	70920585	21	CAPSCREW, 1/2"NC x 1-3/4"
	70912441	21	LOCKWASHER, 1/2"
4	70654104	1	☐ GASKET, bottom cover
5	70035250	1	PLUG, drain
6	70667252	1	☐ GASKET, drain plug

(Continued)

<https://truckmanualshub.com/>
TRANSMISSION CASE AND COVERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	73112627	1	COVER, front (Service replacement)
	70656681	1	COVER, front (Original equipment)
8	70920583	29	CAPSCREW, 1/2"NC x 1-1/2"
	70912441	29	LOCKWASHER, 1/2"
9	70653798	1	☐ GASKET, front cover
10	70624695	3	PIN, dowel, front cover
11	70623804	3	RING, snap, dowel pin
12	70656756	1	PLUG, cup (4-23/32" diam.)
13	70923819	1	☐ O-RING, plug sealing (4-5/8" O.D.)
14	70656746	1	PLUG, cup (4-29/32" diam.)
15	70923821	1	☐ O-RING, plug sealing (4-7/8" O.D.)
16	70656766	1	PLUG, cup (5-1/2" diam.)
17	70923823	1	☐ O-RING, plug sealing (5-3/8" O.D.)

(Revised February 1978)



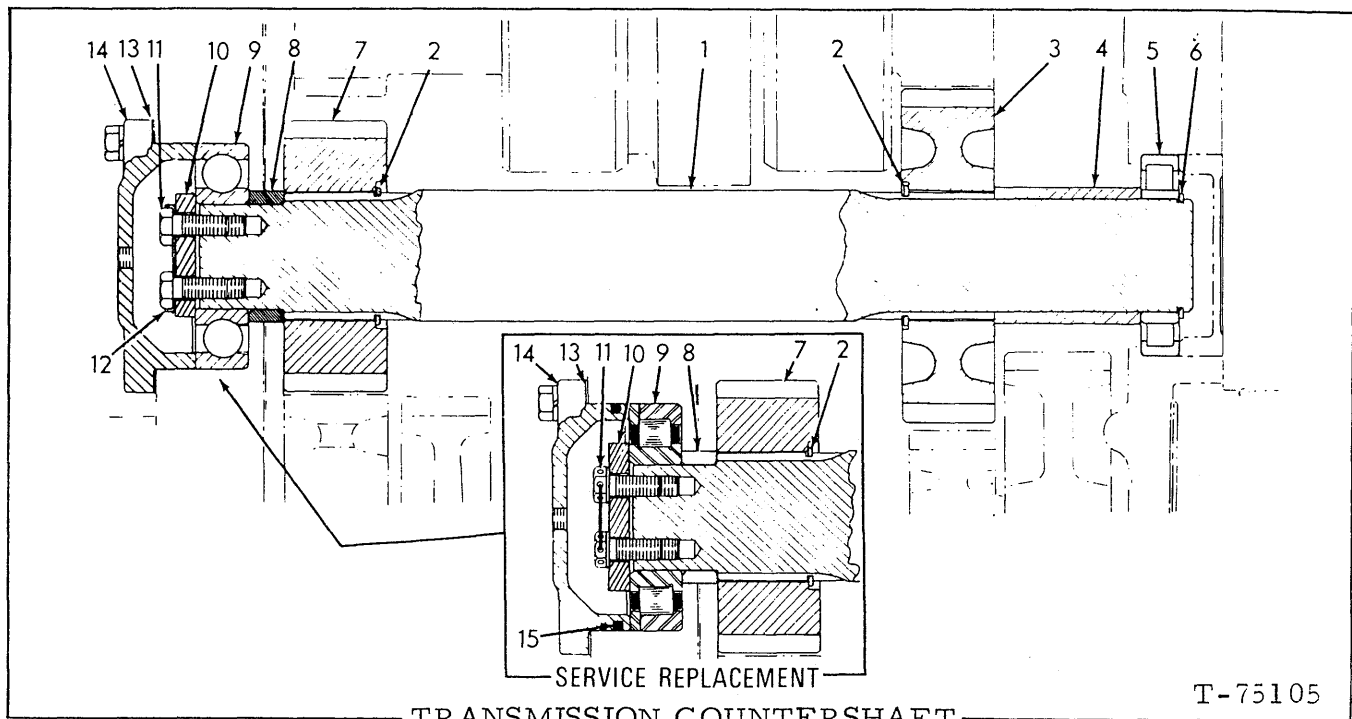
ITEM	PART NO.	QTY.	DESCRIPTION
1	70656790	1	PINION, bevel (12 teeth)
2	70629355	1	RING, snap, bearing retaining
3	70905360	1	BALL, retaining, rear bearing (3/8" diam.)
4	70644337	1	BEARING, roller, rear end
5	70657313	1	SPACER, first speed gear
6	70925241	1	☐ O-RING, rear bearing retainer
7	70653740	1	RETAINER, rear bearing
	70917733	6	CAPSCREW, socket-hd., 3/8"NC x 1-1/4"
8	70925652	1	☐ O-RING, rear bearing retainer
9	70648619	1	☐ SEAL, oil
10	70656594	1	GEAR, first speed (59 teeth)
11	70656593	1	GEAR, third speed (39 teeth)
12	70629356	1	SLEEVE, gear spacing

(Continued)

<https://truckmanualshub.com/>
TRANSMISSION BEVEL PINION SHAFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
13	70656597	1	GEAR, second speed (48 teeth)
14	70656598	1	GEAR, idling (53 teeth)
15	70629138	1	RING, snap, idling gear
16	70657324	1	BEARING, roller (Consists of 2 roller assemblies, 2 cups and 1 spacer. Serviced only as a unit)
17	70657318	1	BEARING, roller, front end (Consists of 2 roller assemblies, 1 cup and 1 spacer. Serviced only as a unit)
18	70657315	7	SHIM, pinion adjustment (.005" thick)
	70657316	5	SHIM, pinion adjustment (.007" thick)
	70657317	7	SHIM, pinion adjustment (.010" thick)
			} Use as required
19	70657302	1	RING, snap, front bearing
20	70662411	1	RETAINER, front bearing, inner
21	70922726	3	CAPSCREW, 1/2"NF x 1-1/2"
22	70629358	1	PLATE, capscREW locking
23	70657312	5	SHIM, bearing retainer (.005" thick)
	70657314	5	SHIM, bearing retainer (.007" thick)
			} Use as required
24	70653819	1	RETAINER, front bearing, outer
25	70922526	3	CAPSCREW, 1/2"NC x 2-1/2"
26	70922510	2	CAPSCREW, 1/2"NC x 2-3/4"
27	70925889	3	CAPSCREW, 1/2"NC x 4-1/2"
	70912441	6	LOCKWASHER, 1/2"
	70928178	2	WASHER
28	-----	-	PUMP (See SHIFT INHIBITING PUMP AND LINES)

(Revised May 1976)



TRANSMISSION COUNTERSHAFT

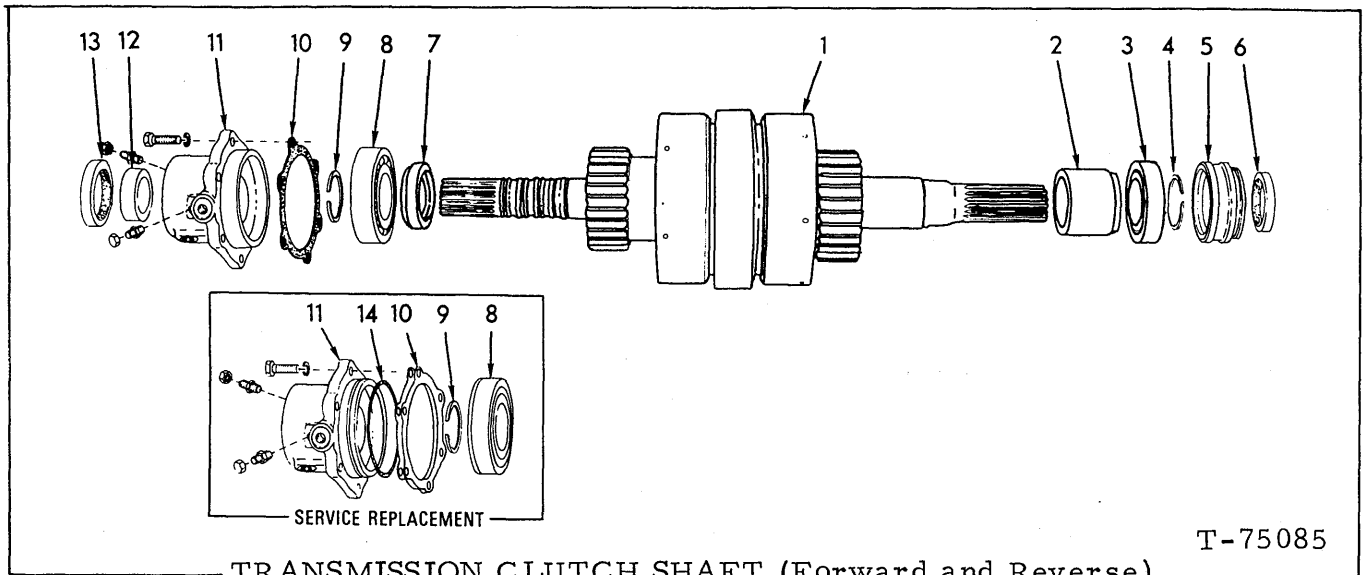
T-75105

* Original equipment

** Service replacement

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70657328	1 1	SHAFT
2	70657299	2 2	RING
3	70656601	1 1	GEAR (39 teeth)
4	70657322	1 1	SPACER
5	73119394	1 1	BEARING, roller
6	70624688	1 1	RING
7	70656602	1 1	GEAR (31 teeth)
8	70657305	1 -	* SPACER
	73112630	- 1	SPACER
9	70647996	1 -	* BEARING, ball
	73112630	- 1	BEARING, ball
10	70629350	1 -	* WASHER
	73112625	- 1	WASHER
11	70927574	2 -	CAPSCREW, 1/2"NF x 1-3/8"
	70035689	- 2	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
	70928460	- 2	WASHER
	70023633	- 1	LOCKWIRE
12	70629349	1 -	* PLATE
13	70657319	1 -	GASKET
	73112619	- 4	SHIM (.005" thick)
	73112618	- 4	SHIM (.007" thick)
			} Use as required
14	70657329	1 -	* RETAINER
	73112624	- 1	RETAINER
	70920583	6 6	CAPSCREW, 1/2"NC x 1-1/2"
	70912441	6 6	LOCKWASHER, 1/2"
15	70929881	- 1	O-RING

NOTE: For initial replacement on items indicated by asterisk (*) order TRANSMISSION FRONT ROLLER BEARING KIT 73112623 (See page 12A). Once KIT has been installed service with items listed in second column.



TRANSMISSION CLUTCH SHAFT (Forward and Reverse)

* Original equipment

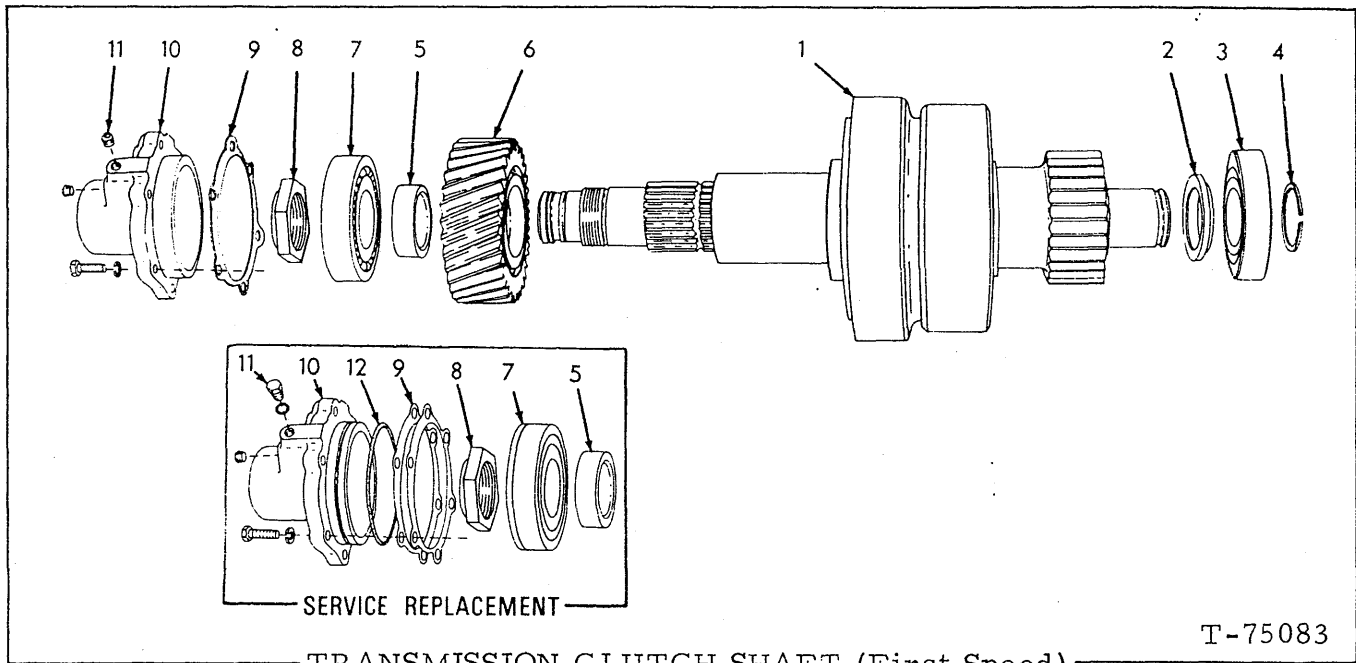
** Service replacement

ITEM	PART NO.	QTY.	DESCRIPTION
1	73118869	1 1	CLUTCH AND SHAFT ASSY. (See page 153)
2	70657323	1 1	SPACER
3	73119394	1 1	BEARING, roller
4	70624688	1 1	RING
5	70663442	1 1	RETAINER
6	73118975	1 1	□ SEAL
7	70656612	1 1	SPACER
8	70647996	1 -	* BEARING, ball
	73112620	- 1	BEARING, roller
9	70624783	1 -	RING
	73112617	- 1	RING
10	70657319	1 -	□ GASKET
	73112619	- 4	SHIM (.005" thick)
	73112618	- 4	SHIM (.007" thick)
11	70670397	1 -	* COLLECTOR
	73112626	- 1	COLLECTOR
	70919140	2 2	CONNECTOR, flare type, 1/4" tube, 1/4" NPT male
	70921467	2 2	CAP, flare type, 1/4" tube
	70920583	6 6	CAPSCREW, 1/2" NC x 1-1/2"
	70912441	6 6	LOCKWASHER, 1/2"
12	70657581	1 1	SPACER
13	70657582	1 1	□ SEAL
14	70929881	- 1	O-RING

} Use as required

} Late units

NOTE: For initial replacement on items indicated by asterisk (*) order TRANSMISSION FRONT ROLLER BEARING KIT 73112623 (See page 12A). Once KIT has been installed service with items listed in second column.



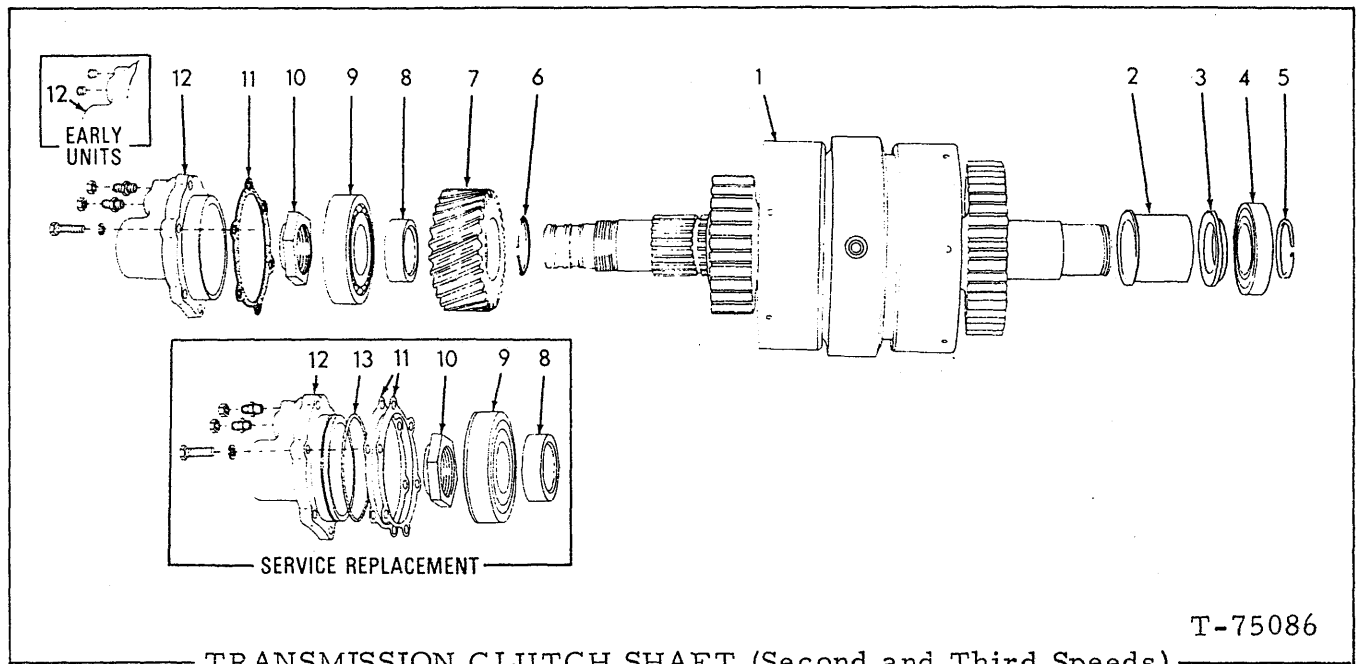
TRANSMISSION CLUTCH SHAFT (First Speed)

* Original equipment
 ** Service replacement
 * **

ITEM	PART NO.	QTY.	DESCRIPTION
1	73118867	1	CLUTCH AND SHAFT ASSY. (See page 149)
2	70657303	1	SPACER
3	73119395	1	BEARING, roller
4	70624783	1	RING
5	70657305	1	* SPACER
	73112630	-	SPACER
6	70656599	1	GEAR (33 teeth)
7	70647996	1	* BEARING, ball
	73112620	-	BEARING, roller
8	70639759	1	NUT
9	70628784	1	□ GASKET
	73112621	-	SHIM (.005" thick)
	73112622	-	SHIM (.007" thick)
10	70639501	1	* COLLECTOR
	73108564	-	COLLECTOR
	70918850	2	PLUG, pipe, hex-socket, 1/4" NPT (Tractors prior to unit #17737)
	70901652	1	PLUG, pipe, 1/4" NPT
	70919140	1	CONNECTOR, flare type, 1/4" tube, 1/4" NPT male
	70921467	1	CAP, flare type, 1/4" tube
	70920583	6	CAPSCREW, 1/2" NC x 1-1/2"
	70912441	6	LOCKWASHER, 1/2"
11	70901653	1	PLUG, pipe, 3/8" NPT
	70921573	-	PLUG, hex-hd., 3/4" NF (Includes O-RING)
	70921349	-	O-RING
12	70929881	-	O-RING

NOTE: For initial replacement on items indicated by asterisk (*) order TRANSMISSION FRONT ROLLER BEARING KIT 73112623 (See page 12A). Once KIT has been installed service with items listed in second column.

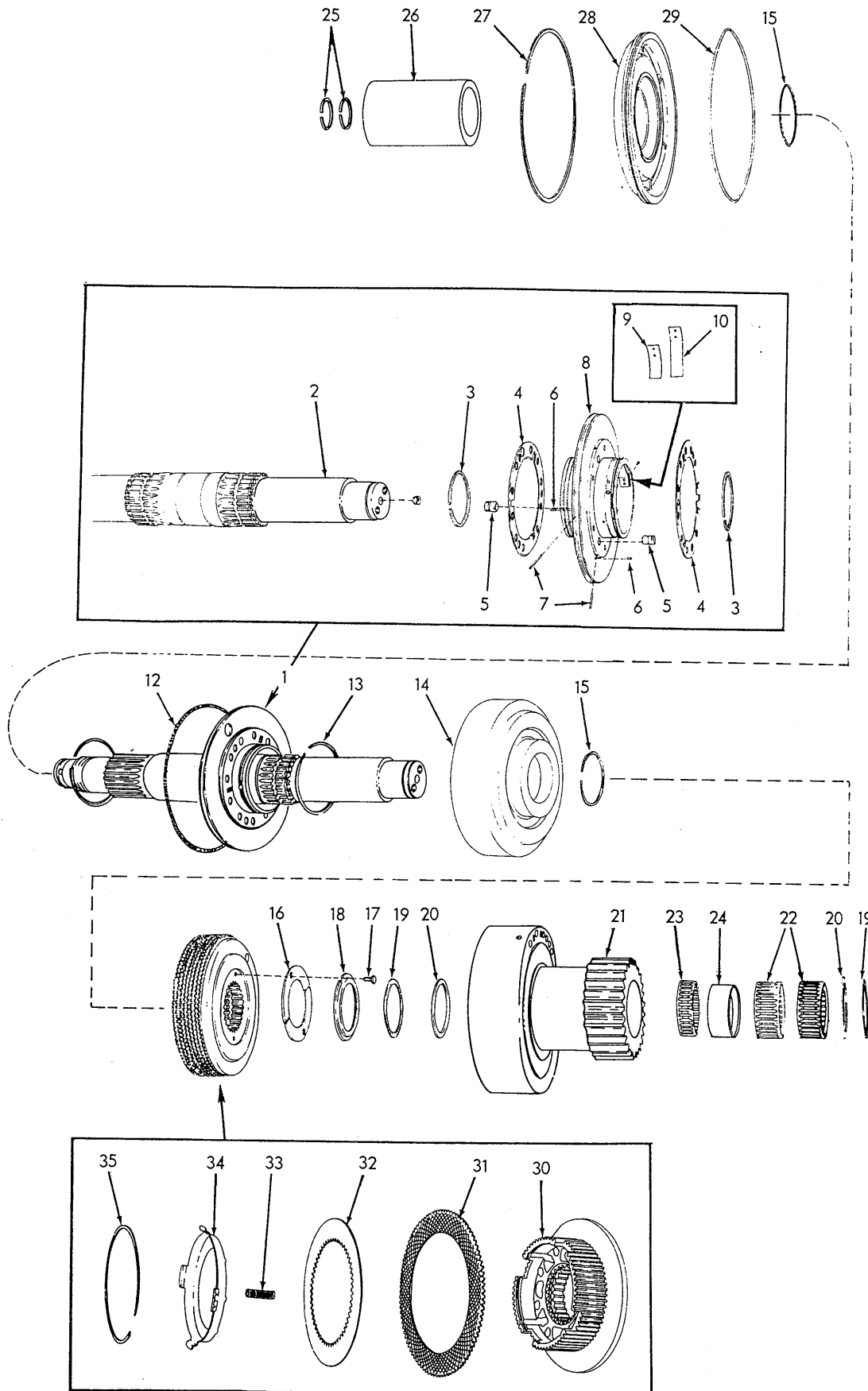
(Revised August 1979)



TRANSMISSION CLUTCH SHAFT (Second and Third Speeds)

				* Original equipment
				** Service replacement
ITEM	PART NO.	QTY.	DESCRIPTION	
1	73118868	1 1	CLUTCH AND SHAFT ASSY. (See page 151)	
2	70657321	1 1	SPACER	
3	70657303	1 1	SPACER	
4	70042951	1 1	BEARING	
5	70624783	1 -	RING	
	73112617	- 1	RING	
6	70629346	1 1	RING	
7	70656596	1 1	GEAR (28 teeth)	
8	70657305	1 -	* SPACER	
	73112630	- 1	SPACER	
9	70647996	1 -	* BEARING	
	73112620	- 1	BEARING	
10	70639759	1 1	NUT	
11	70628784	1 -	□ GASKET	
	73112621	- 4	SHIM (.005" thick)	} Use as required
	73112622	- 4	SHIM (.007" thick)	
12	70639501	1 -	COLLECTOR	
	73108564	- 1	COLLECTOR	
	70918850	2 -	PLUG, pipe, hex-socket, 1/4" NPT (Tractors prior to unit #17737)	
	70919140	2 2	CONNECTOR, flare type, 1/4" tube 1/4" NPT male	} Tractor unit #17757 and up
	70921467	2 2	CAP, flare type, 1/4" tube	
	70920583	6 6	CAPSCREW, 1/2" NC x 1-1/2"	
	70912441	6 6	LOCKWASHER, 1/2"	
13	70929881	- 1	O-RING	

NOTE: For initial replacement on items indicated by asterisk (*) order TRANSMISSION FRONT ROLLER BEARING KIT 73112623 (See page 12A). Once KIT has been installed, service with items listed in second column.



CLUTCH AND SHAFT ASSEMBLY 73118867

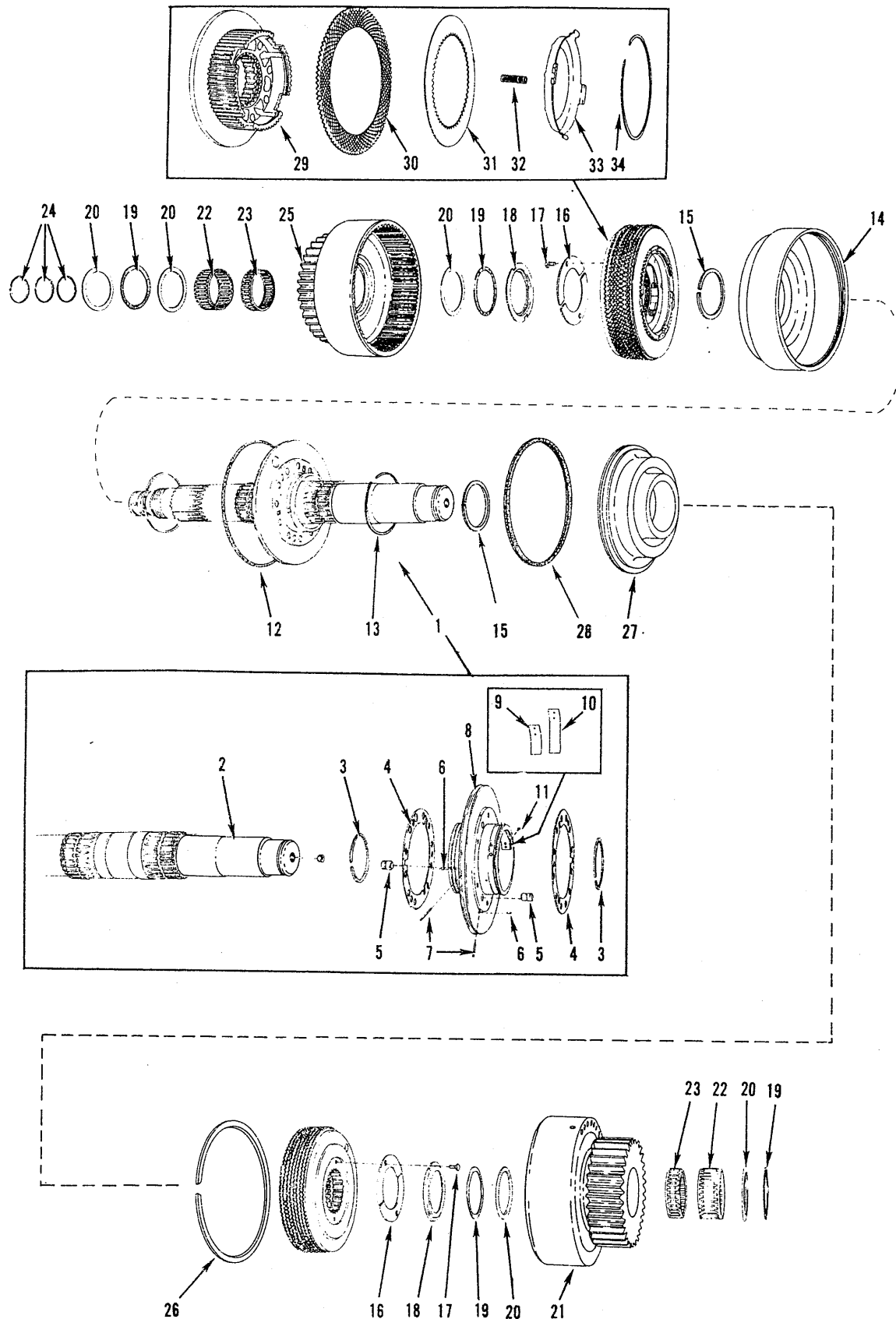
T-75084

CLUTCH AND SHAFT ASSEMBLY 73118867

USAGE: See page 146

ITEM	PART NO.	QTY.	DESCRIPTION
1	70656978	1	SHAFT ASSY. (Includes items 2 thru 11)(First type)
	70697124	1	SHAFT ASSY. (Includes items 2 thru 11)(Second type)
2	-----	1	SHAFT, only (Not serviced separately)
	70186648	1	PLUG, pipe, hex-socket, 1/4"NPT
3	70639588	2	RING, snap, carrier retaining
4	73037767	2	PLATE, valve
5	70639598	6	PISTON, valve actuating
6	70922745	6	PIN, retaining, piston stop pin
7	73037768	6	PIN, piston stop
8	70642144	1	CARRIER ASSY. (Includes items 9 thru 11)
9	70639579	2	VALVE, flapper
10	70642329	2	GUARD, flapper valve
11	70639578	6	RIVET, flapper valve
12	73037676	1	☐ O-RING, carrier
13	73037675	2	RING, carrier sealing
14	73037669	1	HOUSING, piston
15	73037674	2	RING, shaft sealing, center
16	70639583	2	RETAINER, clutch hub (half only)
17	73037641	2	CAPSCREW, thin-hd., 5/16"NF x 1/2"
18	73037681	1	SPACER
19	73037597	2	BEARING, thrust
20	73037598	2	WASHER, thrust, inner and outer (3-47/64"O.D.) (1 less used with first type GEAR AND DRUM)
	70699049	1	WASHER, thrust inner (3-51/64"O.D.)(Effective with second type GEAR AND DRUM)
21	70656971	1	GEAR AND DRUM (27 teeth) (First type)
	70699203	2	GEAR AND DRUM (27 teeth)(Second type)
22	73037656	2	BEARING, roller clutch gear (1-1/2" wide)
23	70639547	1	BEARING, roller, clutch gear (1" wide)
24	70656981	1	SPACER, gearing
25	70692429	2	RING, shaft sealing, end
26	70656982	1	SPACER, drive gear
27	73037677	1	RING, snap, actuating piston housing
28	73037667	1	PISTON, clutch actuating
29	73037684	1	☐ SEAL, actuating piston
30	70643761	1	HUB, clutch
31	-----	8	PLATE, friction, outer (Diamond grooved pattern) (Original equipment. Order 8 PLATE 79019030)
	79019030	8	PLATE, friction, outer (Square grooved pattern) (Service replacement)
32	70688802	8	PLATE, friction, inner (Flat)
33	70639556	8	SPRING, clutch hub
34	70643762	1	RETAINER, clutch hub spring
35	73037678	1	RING, snap, spring retainer

(Revised May 1981)



CLUTCH AND SHAFT ASSEMBLY 73118868

T-75106

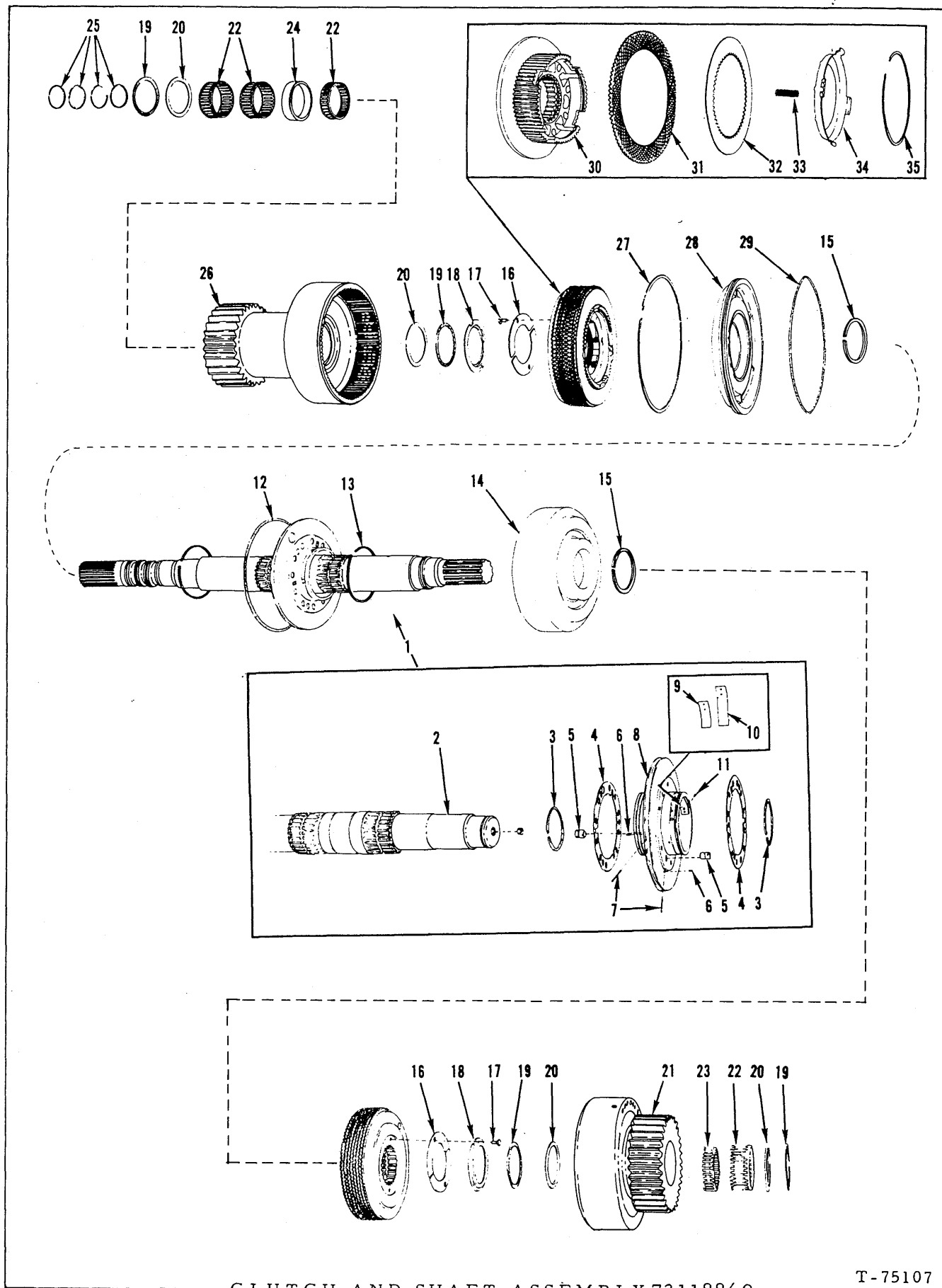
(Revised August 1979)

CLUTCH AND SHAFT ASSEMBLY 73118868

USAGE: See page 147

ITEM	PART NO.	QTY.	DESCRIPTION
1	70656979	1	SHAFT ASSY. (Includes items 2 thru 11)
2	-----	1	SHAFT, only (Not serviced separately)
	70186648	1	PLUG, orifice
3	70639588	2	RING, snap, carrier retaining
4	73037767	2	PLATE, valve
5	70639598	6	PISTON, valve actuating
6	70922745	6	PIN, retaining, piston stop pin
7	73037768	6	PIN, piston stop
8	70642144	1	CARRIER ASSY. (Includes items 9 thru 11)
9	70639579	2	VALVE, flapper
10	70642329	2	GUARD, flapper valve
11	70639578	6	RIVET, flapper valve
12	73037676	1	☐ O-RING, carrier
13	73037675	2	RING, carrier sealing
14	73037669	1	HOUSING, piston
15	73037674	2	RING, shaft sealing, center
16	70639583	4	RETAINER, clutch hub (half only)
17	73037641	4	CAPSCREW, thin-hd., 5/16" NF x 1/2"
18	73037681	2	SPACER
19	73037597	4	BEARING, thrust
20	73037598	5	WASHER, thrust (3-47/64" O.D.)(3 less used with second type GEAR AND DRUM)(items 21 and 25)
	70699049	2	WASHER, thrust (3-51/64" O.D.)(Effective with second type GEAR AND DRUM)(items 21 and 25)
21	70656973	1	GEAR AND DRUM, third speed (42 teeth)(First type)
	70699205	1	GEAR AND DRUM, third speed (42 teeth)(Second type)
22	73037656	2	BEARING, roller, clutch gear (1-1/2" wide)
23	70639547	2	BEARING, roller, clutch gear (1" wide)
24	70692429	3	RING, shaft sealing, end
25	70656975	1	GEAR AND DRUM, second speed (33 teeth)(First type)
	70699204	1	GEAR AND DRUM, second speed (33 teeth)(Second type)
26	73037677	1	RING, snap, actuating piston housing
27	73037667	1	PISTON, clutch actuating
28	73037684	1	☐ SEAL, actuating piston
29	70643761	2	HUB, clutch
30	-----	16	PLATE, friction, outer (Diamond grooved pattern) (Original equipment. Order 8 PLATE 79019030 for each clutch serviced)
	79019030	16	PLATE, friction outer (Square grooved pattern)(Service replacement)
31	70688802	16	PLATE, friction, inner (Flat)
32	70639556	16	SPRING, clutch hub
33	70643762	2	RETAINER, clutch hub spring
34	73037678	2	RING, snap, spring retainer

(Revised May 1981)



CLUTCH AND SHAFT ASSEMBLY 73118869

T-75107

CLUTCH AND SHAFT ASSEMBLY 73118869

USAGE: See page 145

ITEM	PART NO.	QTY.	DESCRIPTION
1	70679653	1	SHAFT ASSY. (Includes items 2 thru 11)
2	-----	1	SHAFT, only (Not serviced separately)
	70907859	1	PLUG, pipe, hex-socket, 1/4"NPT
3	70639588	2	RING, snap, carrier retaining
4	73037767	2	PLATE, valve
5	70639598	6	PISTON, valve actuating
6	70922745	6	PIN, retaining, piston stop pin
7	73037768	6	PIN, piston stop
8	70642144	1	CARRIER ASSY. (Includes items 9 thru 11)
9	70639579	2	VALVE, flapper
10	70642329	2	GUARD, flapper valve
11	70639578	6	RIVET, flapper valve
12	73037676	1	☐ O-RING, carrier
13	73037675	2	RING, carrier sealing
14	73037669	1	HOUSING, piston
15	73037674	2	RING, shaft sealing, center
16	70639583	4	RETAINER, clutch hub (half only)
17	73037641	4	CAPSCREW, thin-hd., 5/16"NF x 1/2"
18	73037681	2	SPACER
19	73037597	4	BEARING, thrust
20	73037598	4	WASHER, thrust (3-47/64"O.D.)(3 less used with second type GEAR AND DRUM)
	70699049	3	WASHER, thrust (3-51/64"O.D.)(Effective with second type GEAR AND DRUM)
21	70656972	1	GEAR AND DRUM, forward (31 teeth)(First type)
	70699207	1	GEAR AND DRUM, forward (31 teeth)(Second type)
22	73037656	4	BEARING, roller, clutch gear (1-1/2" wide)
23	70639547	1	BEARING, roller, clutch gear (1" wide)
24	70656980	1	SPACER, clutch gear bearing
25	70681070	4	RING, shaft sealing, end
26	70656974	1	GEAR AND DRUM, reverse (28 teeth)(First type)
	70699206	1	GEAR AND DRUM, reverse (28 teeth)(Second type)
27	73037677	1	RING, snap, actuating piston housing
28	73037667	1	PISTON, clutch actuating
29	73037684	1	☐ SEAL, actuating piston

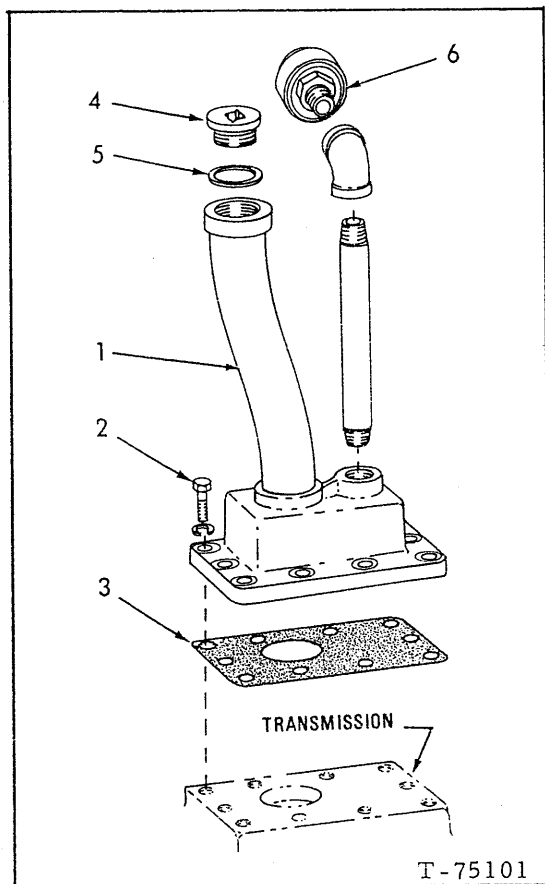
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CLUTCH AND SHAFT ASSEMBLY 73118869 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
30	70643761	2	HUB, clutch
31	-----	16	PLATE, friction, outer (Diamond grooved pattern) (Original equipment. Order 8 PLATE 79017821 for each clutch serviced)
	79017821	16	PLATE, friction, outer (Square grooved pattern) (Service replacement)
32	70688802	16	PLATE, friction, inner (flat)
33	70639556	16	SPRING, clutch hub
34	70643762	2	RETAINER, clutch hub spring
35	73037678	2	RING, snap, spring retainer

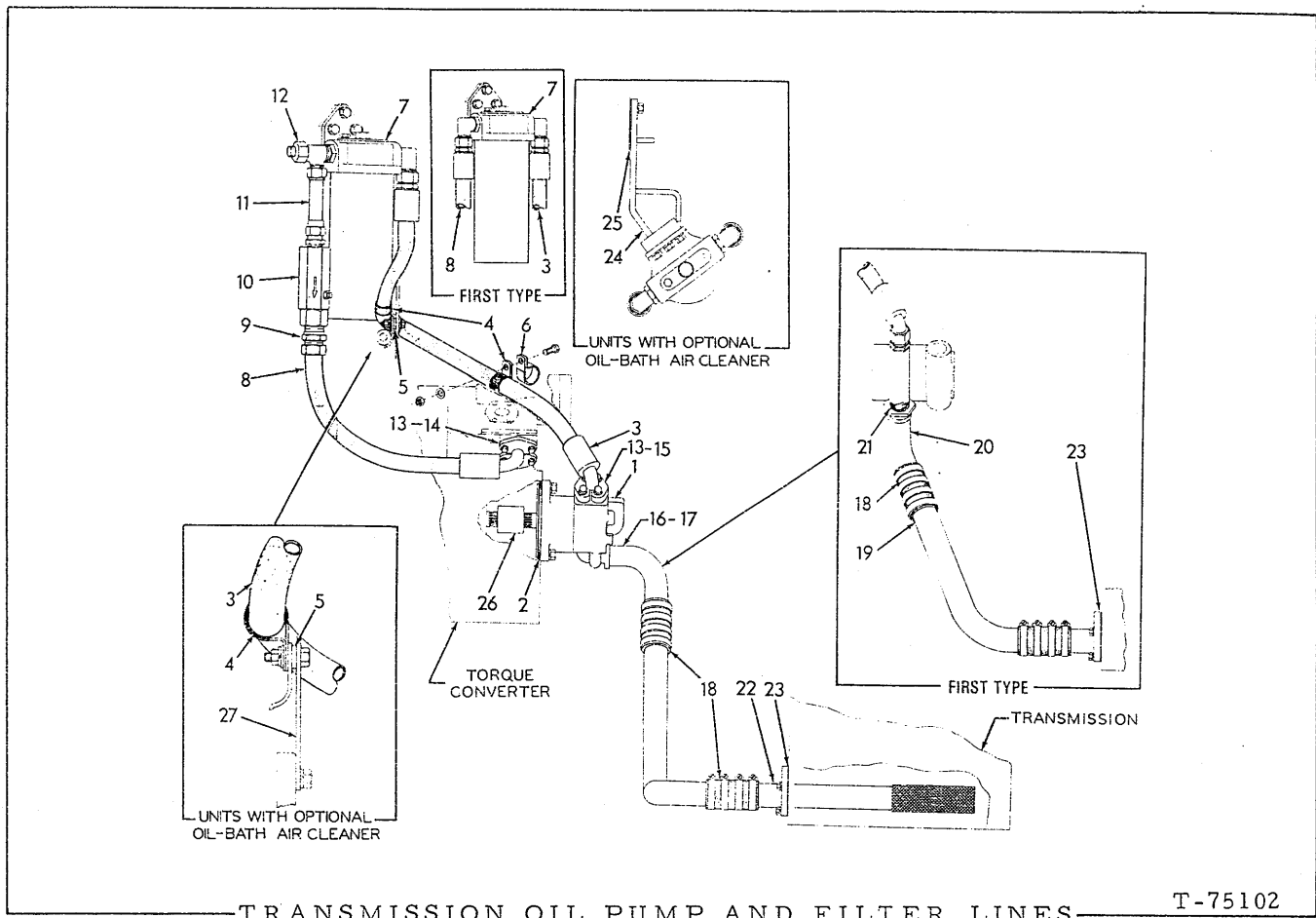
(Revised May 1981)

TRANSMISSION OIL FILLER AND BREATHER



ITEM	PART NO.	QTY.	DESCRIPTION
1	70653950	1	FILLER, oil
2	70927173	10	CAPSCREW, 3/8"NC x 1-1/8"
	70910287	10	LOCKWASHER, 3/8"
3	70627346	1	☐ GASKET, oil filler to case
4	70035250	1	PLUG, oil filler
5	70667252	1	☐ GASKET, oil filler plug
6	70679375	1	BREATHING ASSY. (Serviced only as a unit)
	70901694	1	ELBOW, pipe, 45°, 3/4"NPT
	70912085	1	NIPPLE, pipe, 3/4"NPT x 7"

(Revised May 1976)



* Tractors prior to serial No. 16550; also tractor serial No. 10S16551 thru 10S17518 and 10S17579 thru 10S17628
 ** Tractors serial No. 10S17519 and up excluding 10S17579 thru 10S17628

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	1	PUMP ASSY., oil (See page 160)
	-----	- 1	PUMP ASSY., oil (See page 159)
	70035190	2	CAPSCREW, 1/2" NC x 1-1/2"
	70920582	- 2	CAPSCREW, 1/2" NC x 1-1/4"
	70912441	2 2	LOCKWASHER, 1/2"
2	70923587	1 1	□ O-RING, oil pump
3	70660877	1 -	HOSE, pump to filter (See HOSE PARTS)
	70670757	- 1	HOSE, pump to filter
	70921228	1 -	CONNECTOR, flare type, 1" tube, 1-5/16" NF straight male thread (Includes O-RING)
	70921227	1 1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" straight male thread (Includes washer, nut and O-RING)
	70921214	2 1	O-RING
4	70927312	2 2	CLIP, hose supporting
	70921565	1 1	CAPSCREW, 3/8" NC x 1-1/4"
	70677006	1 1	WASHER, plain
	70911026	1 1	NUT, 3/8" NC

(Continued)

(Revised May 1976)

TRANSMISSION OIL PUMP AND FILTER LINES (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
5	70677006	1 1	WASHER, clip spacing
6	70927311	1 1	CLIP, hose supporting
	70920582	1 1	CAPSCREW, 1/2" NC x 1-1/4"
	70677008	1 1	WASHER, plain
	70911028	1 1	NUT, 1/2" NC
7	-----	1 1	FILTER ASSY., oil (See page 162)
	70919840	2 2	PLUG, pipe, hex-hd., 1/4" NPT (1 less required on tractors not equipped with Automatic Safety Brakes)
	70920583	3 3	CAPSCREW, 1/2" NC x 1-1/2"
	70912441	3 3	LOCKWASHER, 1/2"
8	70660875	1 1	HOSE, filter to torque converter (See HOSE PARTS)(Tractors without Automatic Safety Brakes)
	70669230	- 1	HOSE, filter to torque converter (Tractors with Automatic Safety Brakes) (See HOSE PARTS)
	70921227	1 1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" straight male thread (Includes washer, nut and O-RING)
	70921214	1 1	O-RING, elbow
9	70926669	2 2	CONNECTOR, flare type, 1" tube, 1-1/4" NPT male
10	70669227	1 1	VALVE, check
11	70669231	1 1	TUBE ASSY.
12	70922739	1 1	TEE, adjustable, flare type, 1" tube, 1-5/16" NF male (Includes O-RING)
	70921214	1 1	O-RING
13	70921117	2 4	FLANGE, hose attaching (half only)
	70921569	4 8	CAPSCREW, 7/16" NC x 1-1/4"
	70914678	4 8	LOCKWASHER, 7/16"
14	70923664	1 1	☐ O-RING, hose flange
15	70921235	- 1	☐ O-RING, hose flange
16	70670668	- 1	TUBE, suction line
	70916311	- 2	CAPSCREW, 1/2" NC x 1-1/4"
	70924864	- 2	CAPSCREW, 1/2" NC x 2-1/4"
	70912441	- 4	LOCKWASHER, 1/2"
17	70923578	- 1	☐ O-RING, suction line tube
18	70623234	2 2	HOSE, suction line
	70921913	8 8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
19	70653874	1 -	TUBE, suction line
	70670666	- 1	TUBE, suction line

Standard on tractors serial No. 10S19110 and up; also used on tractors prior to serial No. 10S19110 if equipped with special automatic Safety Brakes.

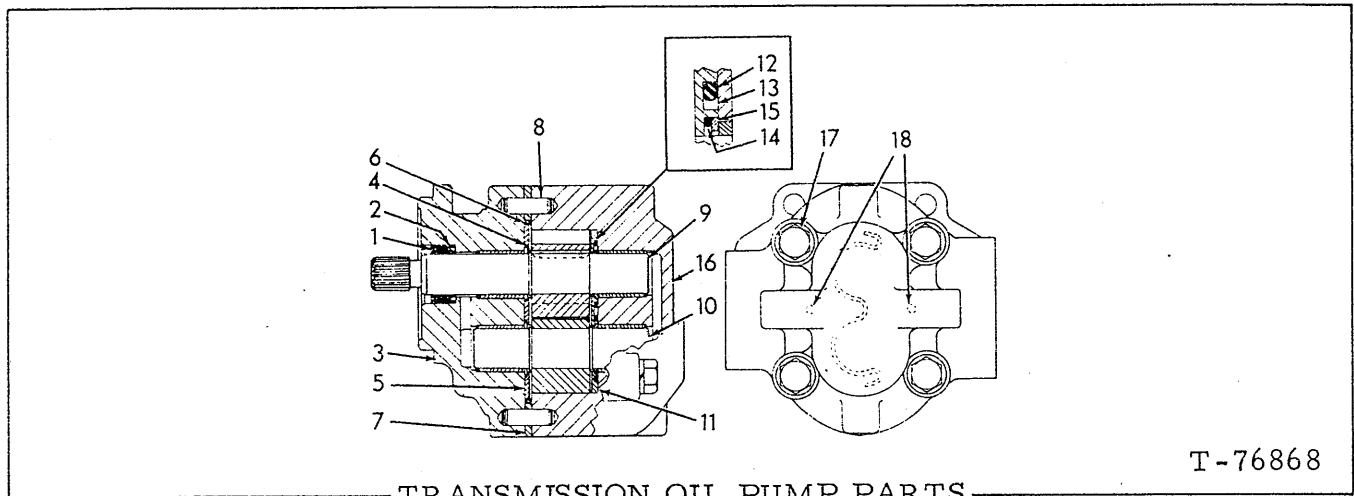
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(Revised May 1976)

TRANSMISSION OIL PUMP AND FILTER LINES (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
20	70660887	1 -	ELBOW ASSY., suction line (Includes item 21)
21	70921214	1 -	O-RING, suction line elbow
22	70653873	1 1	SCREEN, suction line
	70927173	4 4	CAPSCREW, 3/8" NC x 1-1/8"
	70910287	4 4	LOCKWASHER, 3/8"
23	70652389	1 1	☐ GASKET, suction line screen
24	70667926	1 1	BRACKET, filler mounting (Units with oil-bath air cleaner only)
	70920574	3 3	CAPSCREW, 1/2" NC x 1-3/8"
	70912441	3 3	LOCKWASHER, 1/2"
25	70664855	1 1	SPACER, filter mounting bracket
26	70657986	1 1	COUPLING, pump
	70188476	1 1	RING, snap
27	70637589	1 1	STRIP, hose supporting

NOTE: See PAINTING AND MARKING for transfer applied to filter

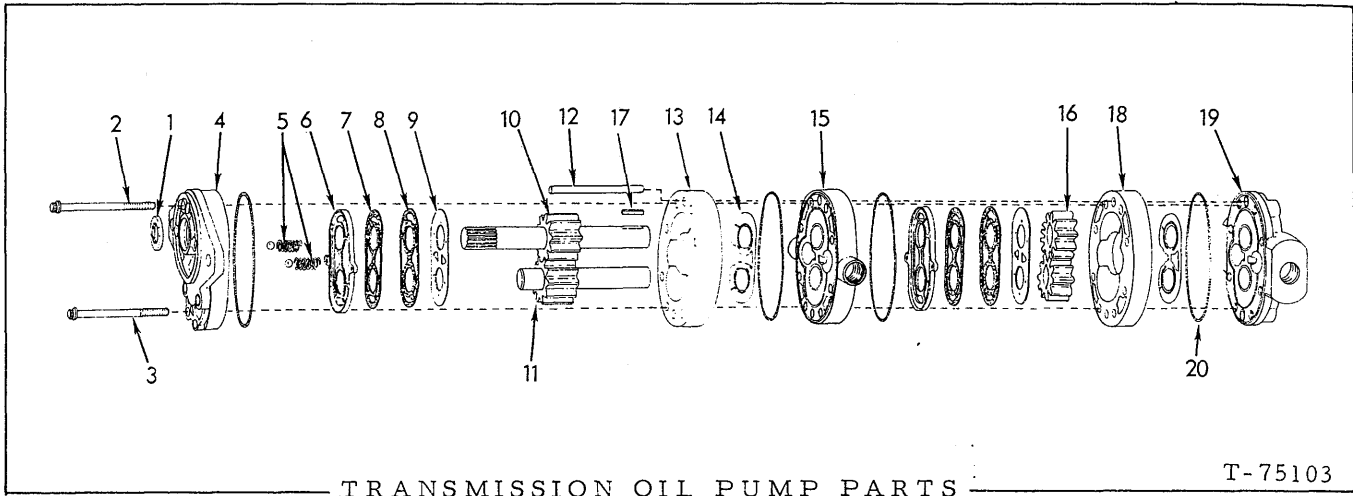


USAGE: See page 156. Tractors S/N 10S17519 and up excluding 10S17579 thru 10S17628

ITEM PART NO. QTY. DESCRIPTION

-	70670675	1	PUMP ASSY., oil (Includes items 1 thru 18)(Tractors prior to unit No. 19605; 19836 thru 20459, excluding 20457; also 20535 and up)	
	70693117	1	PUMP ASSY., oil (Not illustrated) (Tractors unit No. 19605 thru 19835)	} Not serviced. Order PUMP ASSEMBLY 70670675
	70699259	1	PUMP ASSY., oil (Not illustrated) (Tractors unit No. 20460 thru 20534, including 20457)	
1	-----	1	SEAL, dust	} See items 19, 20 and 21
2	-----	1	SEAL, oil	
3	-----	1	ADAPTER (Not serviced)	
4	-----	2	O-RING (See items 20 and 21)	
5	-----	1	PLATE, wear (See item 21)	
6	-----	1	RING, seal (See items 20 and 21)	
7	-----	1	PLATE, spacing	
8	-----	2	PIN, dowel	} Not serviced
9	-----	1	SHAFT ASSY. (Includes gears)	
10	-----	1	SHAFT ASSY. (Includes gears)	
11	-----	1	PLATE, wear (See item 21)	
12	-----	1	SEAL, rear cover	} See items 20 and 21
13	-----	1	SEAL, back-up	
14	-----	2	O-RING	
15	-----	2	SEAL, shaft	
16	-----	1	COVER	} Not serviced
17	-----	4	CAPSCREW, cover retaining	
	-----	4	LOCKWASHER	
18	-----	2	PIN, roll	
19	70670672	1	KIT, seal (Includes 1 and 2)	
20	70670673	1	☐ KIT, minor service (Includes items 1, 2, 4, 6, 12, 13, 14 and 15)	
21	70670674	1	KIT, intermediate service (Includes items 1, 2, 4, 5, 6, 11, 12, 13, 14 and 15)	

(Revised May 1976)



USAGE: See page 157

* Tractors prior to serial No. 16208
 ** Tractors serial No. 16208 and up; also tractors serial No. 10S16551 thru 10S17518 and 10S17579 thru 10S17628

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
-	70656474	1	-	PUMP ASSEMBLY, oil	} Each includes items 1 thru 13)
-	70662304	-	1	PUMP ASSEMBLY, oil	
1	70653935	1	1	SEAL, oil	
2	70925219	4	4	SCREW, 12-pt-hd, 3/8"NC x 7"	
3	70925218	4	4	SCREW, 12-pt-hd, 3/8"NC x 6-3/4"	
4	70653921	1	-	PLATE ASSY., front	} Includes bushings
	74905633	-	1	PLATE ASSY., front	
5	70653916	2	2	SPRING, check valve	
	70921085	2	2	BALL, steel, 13/32" diam	
6	71002296	2	2	SEAL, diaphragm	
7	70653918	2	-	GASKET, diaphragm (.03" thick)	
	70669992	-	2	GASKET, diaphragm (.02" thick)	
8	70653919	2	2	GASKET, diaphragm (.067" thick)	
9	70653920	2	2	DIAPHRAGM, sealing	
10	70661202	1	-	GEAR ASSY., drive	} Includes shaft
	70670078	-	1	GEAR ASSY., drive	
11	70661201	1	-	GEAR ASSY., driven	} Includes shaft
	70670077	-	1	GEAR ASSY., driven	
12	70661203	2	2	PIN, dowel	
13	70661204	1	-	BODY, front	
	70670079	-	1	BODY, front	

(Continued)

TRANSMISSION OIL PUMP PARTS (Continued)

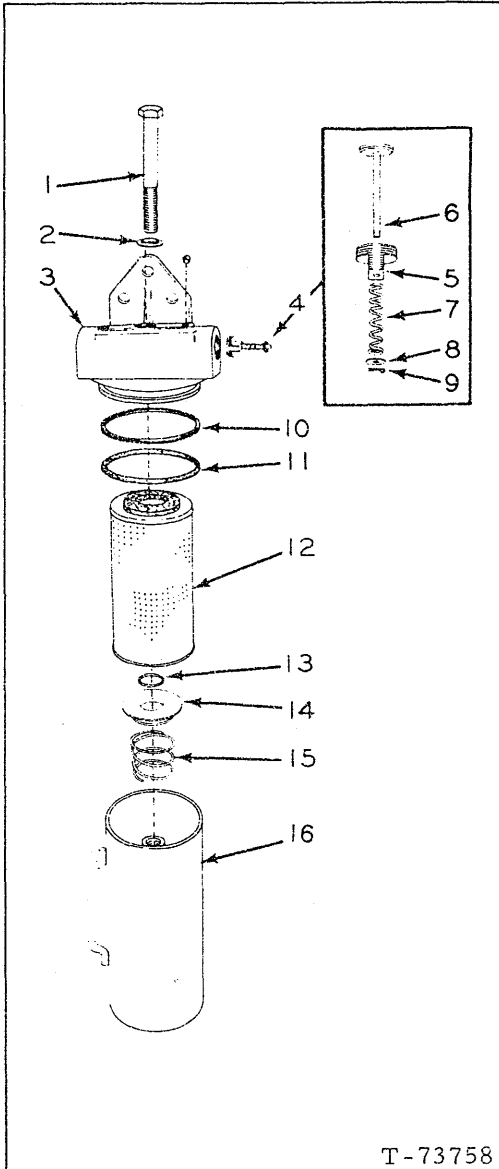
ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
14	70653925	2	-	PLATE, wear	
	70669996	-	2	PLATE, wear	
15	70661205	1	-	BODY ASSY., center	Includes Bushings
	70670080	-	1	PLATE ASSY., adapter	
16	70661200	2	-	GEAR, pump	
	70670076	-	2	GEAR, pump	
17	70925225	1	1	KEY, pump gear	
18	70661206	1	-	BODY, back	
	70670081	-	1	BODY, back	
19	70661199	1	-	PLATE, back	
	70669999	-	1	PLATE, back	
20	70924153	-	4	O-RING	

TRANSMISSION OIL FILTER PARTS

USAGE: See page 157

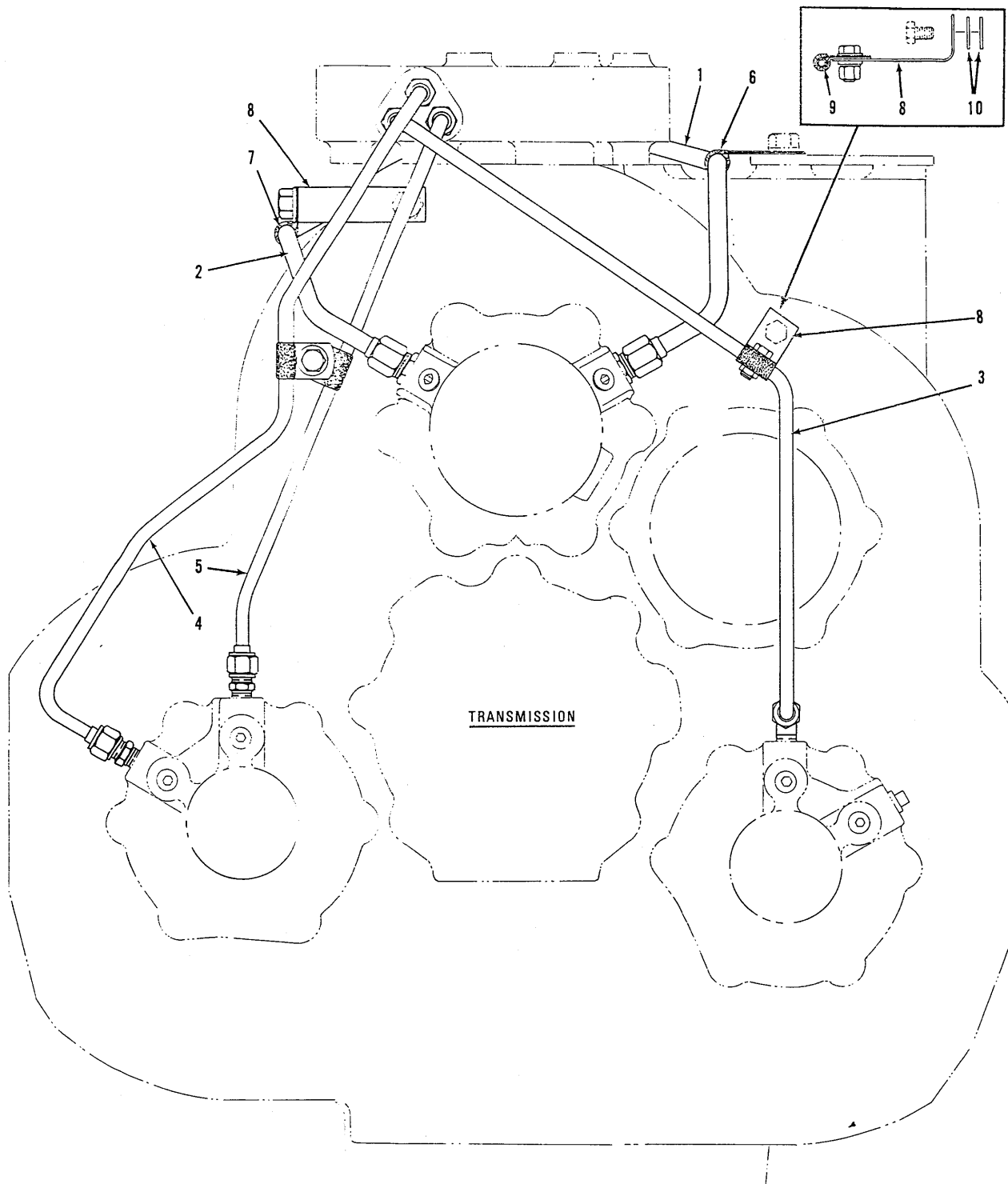
* Tractors prior to Serial No. 16551; also Tractors
Serial No. 10S16551 thru 10S17196

** Tractors Serial No. 10S17197 and up



ITEM	PART NO.	QTY. * **	DESCRIPTION
-	70659519	1 -	FILTER ASSY., oil
-	70676660	- 1	FILTER ASSY., oil
1	70923438	1 1	CAPSCREW, tank retaining (3/4"NF x 5-1/2")
2	74254971	1 1	WASHER, tank retaining cap screw
3	70677289	1 1	HEAD ASSY. (Includes item 4 and plug indented below)
	70901652	2 2	PLUG, pipe; 1/4"NPT
4	70661534	1 1	VALVE ASSY., by-pass (Consists of items 5 thru 9)
5	-----	1 1	HOUSING, by-pass valve (Not serviced separately)
6	-----	1 1	VALVE, by-pass (Not serviced separately)
7	70661268	1 1	SPRING, by-pass valve
8	70632060	1 1	WASHER, by-pass valve spring
9	70900970	1 1	PIN, cotter, 1/16" x 1/2"
10	70646532	1 1	RING, back-up
11	{ 70923836	1 -	O-RING, filter head
	{ 70671617	- 1	O-RING, filter head
12	{ 70640780	1 -	ELEMENT KIT (Ele- Each ment is 8-1/2" long includes
	{ 70669434	- 1	ELEMENT KIT (Ele- items ment is 12-1/2" long 2, 10 and 11
13	{ 70923649	1 -	O-RING, element seating plate
	{ 70671616	- 1	O-RING, element seating plate
14	70641031	1 1	PLATE, element seating
15	{ 70641027	1 -	SPRING, element seating plate
	{ 70674798	- 1	SPRING, element seating plate
16	{ 70650428	1 -	TANK (12-1/4" long)
	{ 70671497	- 1	TANK (16-1/4" long)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



SPEED CONTROL PIPING

T-74952

ITEM	PART NO.	QTY.	DESCRIPTION
1	70663472	1	TUBE ASSY., inhibitor valve to forward and reverse shaft collector, left side (Includes nuts)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	70922507	1	ELBOW, adjustable, 45°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING)
	70921349	2	O-RING
2	70658640	1	TUBE ASSY., inhibitor valve to forward and reverse shaft collector right side (Includes nuts)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	70921402	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING)
	70921349	2	O-RING
3	70654066	1	TUBE ASSY., control valve to clutch shaft collector (1st speed)
	70922522	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
	70919136	1	ELBOW, flare type, 3/8" tube, 3/8"NPT male (Original equipment)
	70923905	1	ELBOW, adjustable, flare type, 90°, 3/8" tube, 3/4" str. thrd. (Includes O-RING)(Service Replacement)
	70921349	1	O-RING, elbow
	70921885	1	O-RING, connector
4	70654053	1	TUBE ASSY., control valve to clutch shaft collector (2nd speed)(Tractors prior to #16199)
	70669687	1	TUBE ASSY., control valve to clutch shaft collector (2nd speed)(Tractor #16199 and up)
	70919172	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male (Original equipment)
	70922457	1	CONNECTOR, flare type, 3/8" tube, 3/4" str. thrd. (Includes O-RING)(Service Replacement)
	70921349	1	O-RING
	70922522	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
	70921885	1	O-RING, connector
5	70654039	1	TUBE ASSY., control valve to clutch shaft collector (3rd speed)(Tractors prior to #16199)
	70669686	1	TUBE ASSY., control valve to clutch shaft collector (3rd speed) (Tractor #16199 and up)
	70919172	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male (Original equipment)
	70922457	1	CONNECTOR, flare type, 3/8" tube, 3/4" str. thrd. (Includes O-RING)(Service Replacement)
	70921349	1	O-RING
	70922522	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
	70921885	1	O-RING, connector

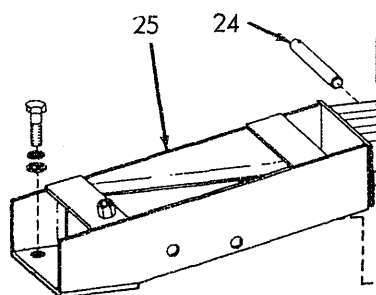
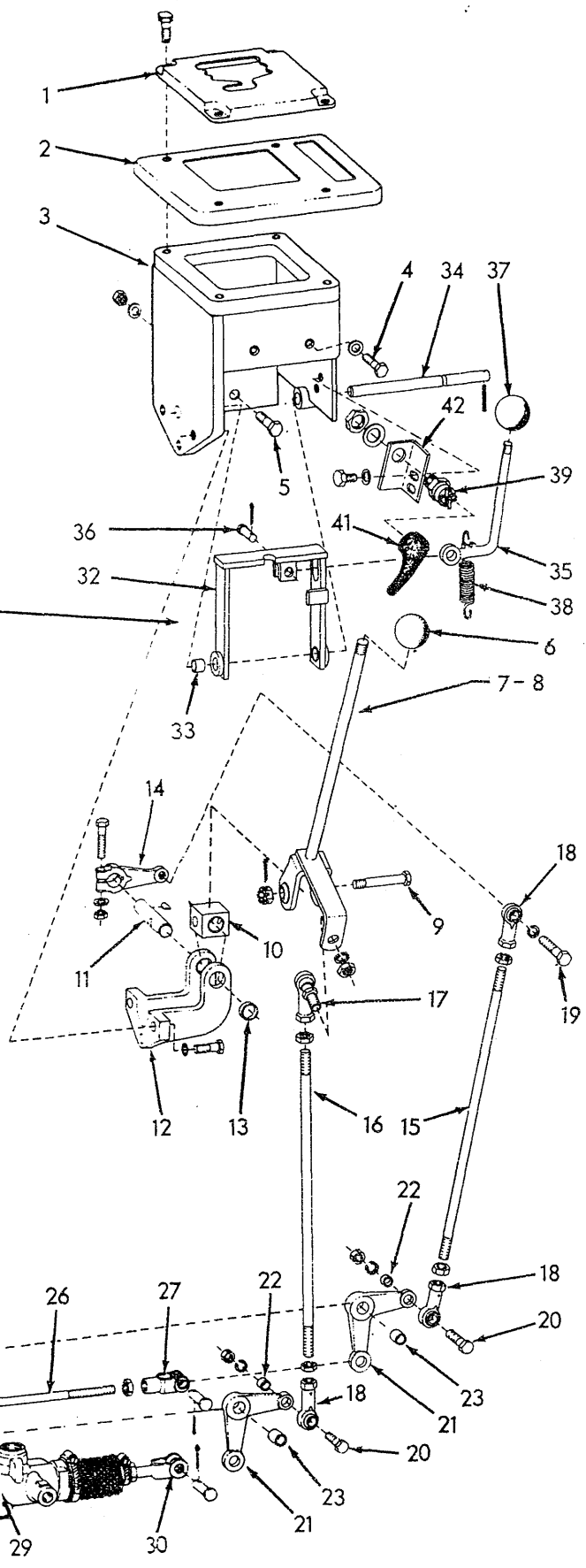
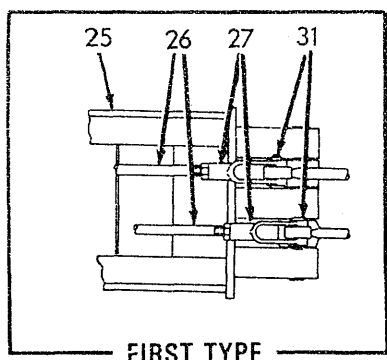
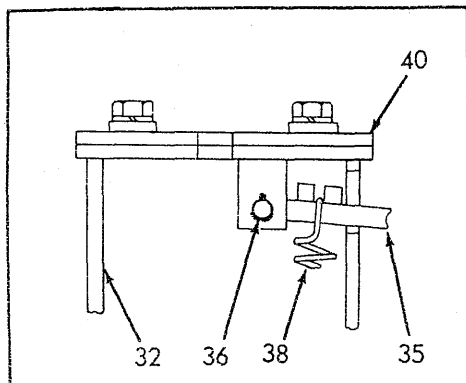
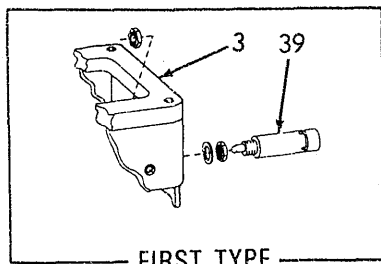
(Continued)

(Revised February 1978)

SPEED CONTROL PIPING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	70641504	1	CLIP, tube supporting, left
7	70620063	1	CLIP, tube supporting, right
	70921175	1	CAPSCREW, 1/2"NC x 1-3/8"
	70928188	1	WASHER, plain
	70912441	1	LOCKWASHER, 1/2"
	70911028	1	NUT, 1/2"NC
8	70642533	2	ANGLE, tube supporting
9	70640675	3	CLIP, tube supporting
	70922763	2	CAPSCREW, 3/8"NC x 1"
	70929156	1	WASHER, plain
	70910287	1	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
	70677006	2	WASHER, plain
10	70058614	3	WASHER, spacing, supporting angle

(Added February 1978)



SPEED CONTROL LINKAGE

T-77577

(Revised May 1976)

ITEM	PART NO.	QTY.	DESCRIPTION
1	70653778	1	GUIDE, control
	70925300	4	CAPSCREW, Nylok, 3/8"NC x 1-1/8"
2	70659700	1	COVER, shifting tower bracket
3	70653902	1	BRACKET, shifting tower (Tractors prior to unit #20292)
	70695716	1	BRACKET, shifting tower (Tractor unit #20292 and up)
4	70921565	2	CAPSCREW, 3/8"NC x 1-1/2"
	70677006	2	WASHER, plain
5	70920583	3	CAPSCREW, 1/2"NC x 1-1/2"
	70677008	3	WASHER, plain
	70911028	3	NUT, 1/2"NC
6	70629709	1	KNOB, speed shift lever
7	70653726	1	LEVER ASSY., speed shift (Includes item 8)
8	70650712	2	BEARING, speed shift lever
9	70652857	1	CAPSCREW, speed shift lever
	70910863	1	NUT, slotted, 3/8"NF
	70907801	1	PIN, cotter, 3/32" x 3/4"
10	70653795	1	BLOCK, lever pivot
11	70653796	1	SHAFT, speed shift lever
12	70656784	1	BRACKET ASSY., speed shift lever shaft (Includes item 13)
	70923193	3	CAPSCREW, 3/8"NF x 1-1/4"
	70910287	3	LOCKWASHER, 3/8"
13	70630795	2	BUSHING, bracket, lever shaft
14	70652512	1	LEVER, control valve
	70905123	1	KEY, #9 woodruff, 3/16" x 3/4"
	70922286	1	CAPSCREW, 5/16"NC x 1-3/4"
	70910286	1	LOCKWASHER, 5/16"
	70911025	1	NUT, 5/16"NC
15	70656919	1	ROD, valve control, forward and reverse (vertical, rear position)
	70911048	2	NUT, jam, 3/8"NF
16	70652366	1	ROD, valve control, speed selection (vertical, front position)
	70911048	2	NUT, jam, 3/8"NF
17	70653721	1	JOINT, ball, speed selection rod (upper position)
	70910287	1	LOCKWASHER, 3/8"
	70911041	1	NUT, 3/8"NF
18	70617932	3	END, rod (female)
19	70925300	1	CAPSCREW, Nylok, 3/8"NC x 1-1/8"
20	70921565	2	CAPSCREW, 3/8"NC x 1-1/2"
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
21	70655746	2	BELLCRANK ASSY., control rods (Includes items 22 and 23)
22	70624584	2	BUSHING, bellcrank (small)

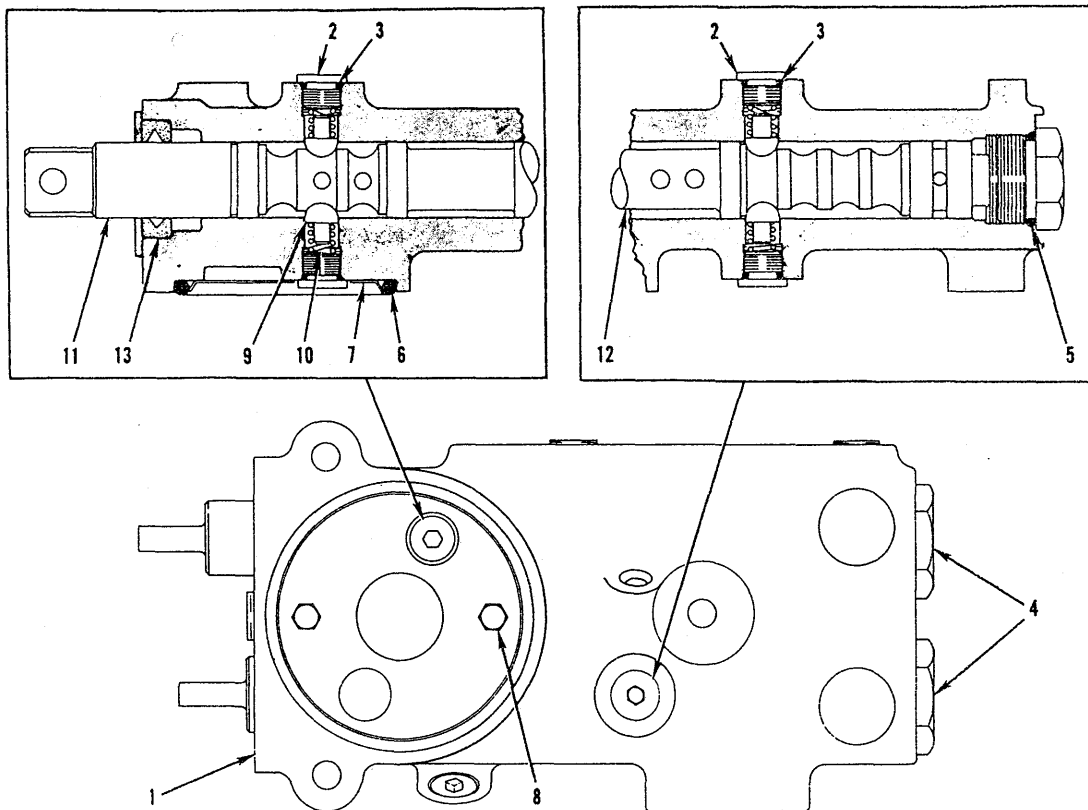
(Continued)

(Revised May 1976)

SPEED CONTROL LINKAGE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
23	70631476	2	BUSHING, bellcrank (large)	
24	70653794	1	SHAFT, bellcrank pivot	
	70918413	1	PIN, spring, 1/8" x 1-5/8"	
25	70653750	1	BRACKET, bellcrank	
	70920582	3	CAPSCREW, 1/2"NC x 1-1/4"	
	70912441	2	LOCKWASHER, 1/2"	
	70677008	1	WASHER	
26	70653954	2	ROD, control (horizontal)	1 less required on tractors unit #19110 and up and on units prior to #19110 if equipped with Special Safety Brakes.
	70911048	2	NUT, jam, 3/8"NF	
27	70628736	2	YOKE, horizontal control rods	
28	70628748	1	YOKE	Standard on tractors unit #19110 and up; also used on units prior to #19110 if equipped with Special Automatic Safety Brake
	70911048	1	NUT, jam, 3/8"NF	
29	-----	1	VALVE ASSY. (See AUTOMATIC SAFETY BRAKE VALVE AND LINES)	
30	70659575	1	ROD	
	70911048	1	NUT, jam, 3/8"NF	
31	70078810	4	PIN, yoke, horizontal control rods	
	70900801	4	PIN, cotter, 3/32" x 3/4"	
32	70653862	1	BRACKET ASSY., neutral lock (Includes item 33) (Tractors prior to unit #20292)	
	70695715	1	BRACKET ASSY., neutral lock (Includes item 33) (Tractor unit #20292 and up)	
33	70049988	2	BUSHING, neutral lock bracket	
34	70653854	1	SHAFT, pivot, neutral lock bracket	
	70918413	1	PIN, spring, 1/8" x 1-5/8"	
35	70653855	1	LEVER, neutral lock	
36	70078810	1	PIN, neutral lock lever	
	70900801	1	PIN, cotter, 3/32" x 3/4"	
37	70632038	1	KNOB, neutral lock lever	
38	70650726	1	SPRING, neutral lock lever	
39	70631844	1	SWITCH, safety (Includes mounting nuts)(Tractors prior to unit #20292)	
	73057506	1	SWITCH, safety (Includes mounting nuts)(Tractor unit #20292 and up)	
40	70653857	1	BAR, adjustment, neutral lock bracket (Early units)	
	70036032	2	CAPSCREW, 3/8"NF x 3/4"	
	70904206	2	LOCKWASHER, 3/8"	
	70630753	2	WASHER	
41	73061193	1	BOOT (Tractor unit #20292 and up)	
42	70695717	1	ANGLE (Tractor unit #20292 and up)	
	70912266	2	CAPSCREW, 3/8"NC x 3/4"	
	70930370	2	WASHER	

(Revised May 1976)



T-74954

SPEED CONTROL VALVE ASSEMBLY 70654304

USAGE: See page 171

ITEM PART NO. QTY. DESCRIPTION

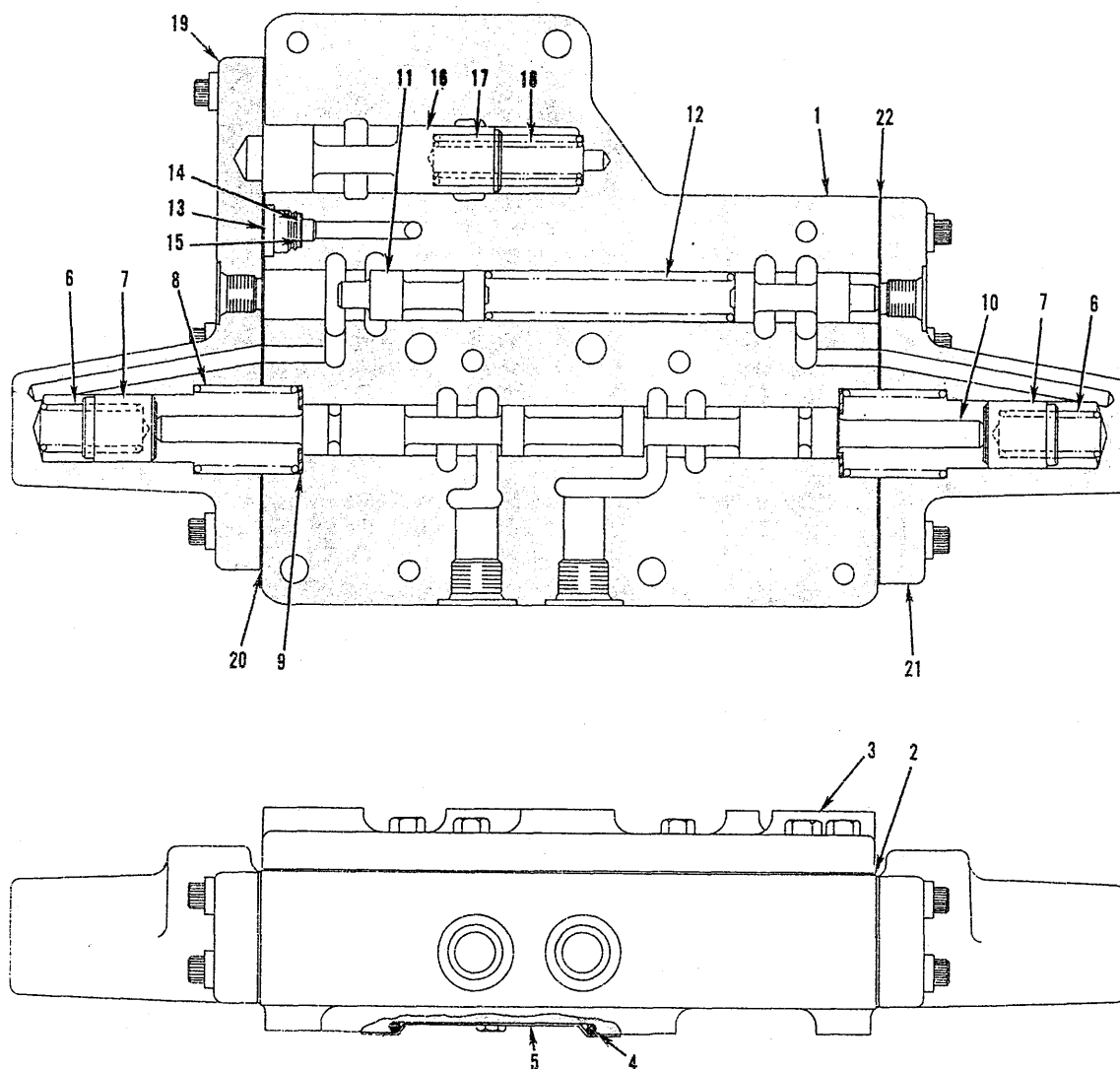
1	-----	1	BODY, valve (Not serviced separately)	
2	70926697	9	PLUG, valve body (Includes item 3)	
3	70921885	9	O-RING, body plug (small)	
4	70921216	2	PLUG, valve body (Includes item 5)	
5	70921214	2	O-RING, body plug (large)	
6	70923831	1	O-RING, valve sealing	
7	70664651	1	RETAINER, O-ring	
8	70664650	2	CAPSCREW, #10-24NC x 3/8"	
9	70668598	4	DETENT (Valves prior to serial No.2847)	
	73108386	4	DETENT (Valve serial No.2847 and up)	
10	70668599	4	SPRING, detent (Valves prior to serial No.2847)	
	73108385	4	SPRING, detent (Valves serial No.2847 and up)	
11	-----	1	PLUNGER, operating, forward and reverse	} Not serviced separately
12	-----	1	PLUNGER, operating, speed selection	
13	73037744	2	SEAL, oil	



T-75088

SPEED CONTROL VALVES AND LINES

ITEM	PART NO.	QTY.	DESCRIPTION
1	70654304	1	VALVE ASSY., speed control (See page 169 for parts)
2	70924843	1	CAPSCREW, 3/8"NC x 3-1/2"
3	70927536	2	CAPSCREW, 3/8"NC x 3-3/4"
	70910287	3	LOCKWASHER, 3/8"
4	70662559	1	VALVE ASSY., shift inhibiting (See page 172 for parts)
	70927536	3	CAPSCREW, 3/8"NC x 3-3/4"
	70910287	3	LOCKWASHER, 3/8"
5	70656849	2	HOSE, torque converter to valves (See HOSE PARTS)
	70921402	3	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF (Includes washer, nut and O-RING)
	70923157	1	TEE, adjustable, flare type, 1/2" tube, 3/4"NF male side (Includes washer, nut and O-RING)
	70921349	4	O-RING
6	70662368	1	TUBE ASSY., tee to inhibitor valve (Includes nuts)
	70923157	1	TEE, adjustable, flare type, 1/2" tube, 3/4"NF male side (Includes washer, nut and O-RING)
	70921349	1	O-RING
7	70662315	1	TUBE ASSY., speed control valve to inhibitor valve, left (Includes nuts)
	70922523	2	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING)
	70921885	2	O-RING
8	70662367	1	TUBE ASSY., speed control valve to inhibitor valve, right (Includes nuts)
	70922523	1	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING)(short type)
	70925295	1	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING)(long type)
	70921885	2	O-RING
9	70622992	2	CLIP, hose supporting
	70916271	1	CAPSCREW, 3/8"NC x 1"
	70911115	1	WASHER, plain, SAE std., 3/8"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
10	70638313	1	ANGLE, hose supporting
	70916310	1	CAPSCREW, 1/2"NC x 1"
	70904208	1	LOCKWASHER, 1/2"



SHIFT INHIBITING VALVE ASSEMBLY 70662559

T-75089

USAGE: See page 171

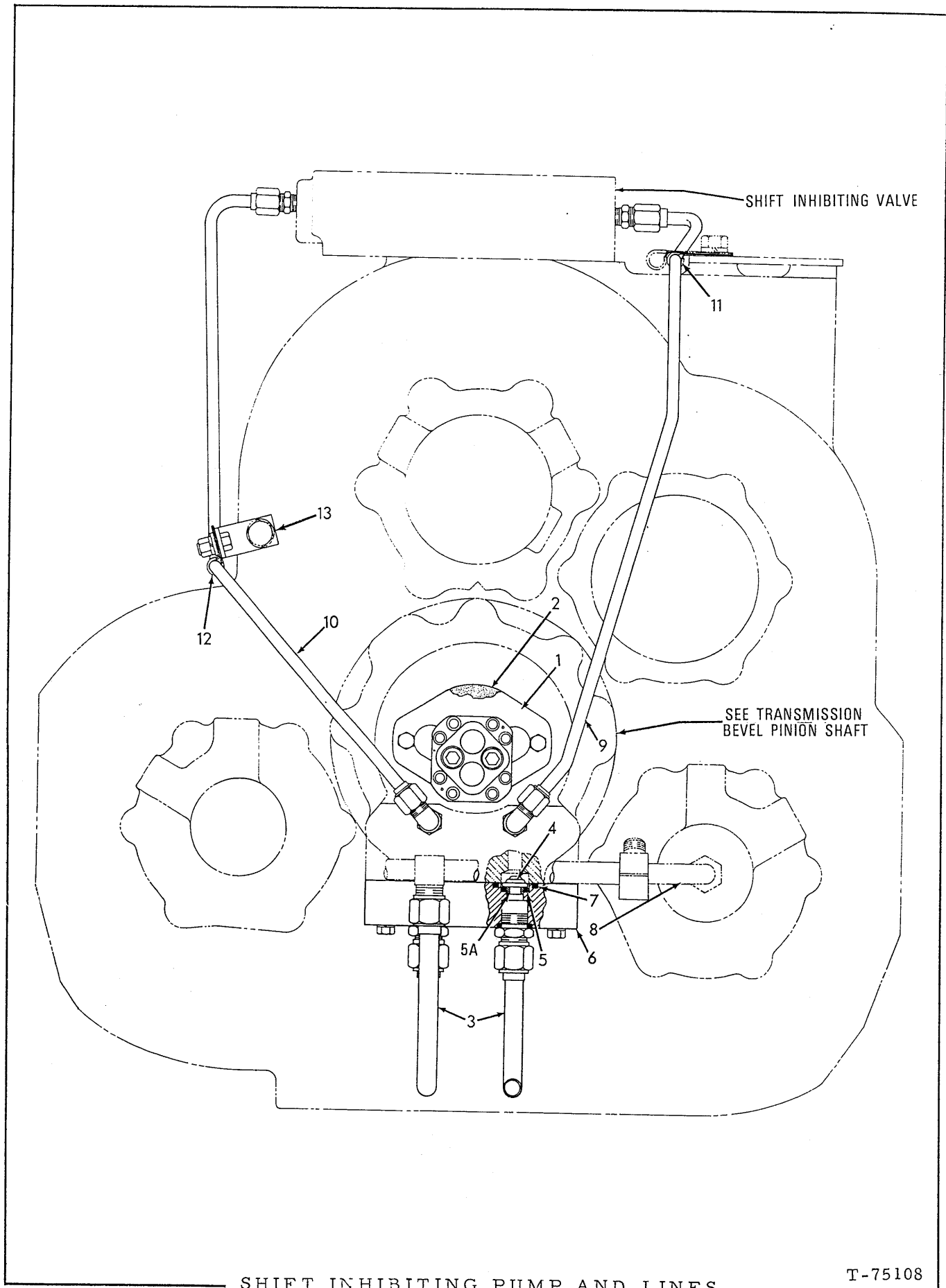
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY (Not serviced separately)
2	70672486	1	GASKET, cover
3	70667634	1	COVER, top
	70919224	8	CAPSCREW, 3/8"NC x 1-1/8"
4	70923831	1	O-RING, valve mounting
5	70664651	1	RETAINER, valve mounting o-ring
	70664650	2	CAPSCREW, #10-24NC x 3/8"
6	70189269	2	SPRING, follower piston
7	70664655	2	PISTON, follower, direction control

(Continued)

<https://truckmanualshub.com/>
SHIFT INHIBITING VALVE ASSEMBLY 70662559 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70669454	2	SPRING, direction control piston
9	70690873	2	RETAINER, spring
10	70664664	1	PISTON, direction control
11	70664659	2	PISTON, flow regulating
12	70667638	1	SPRING, regulating piston
13	70657463	1	VALVE, orifice
14	70662919	1	RING, snap, screen retaining
15	70639939	1	SCREEN, oil
16	70667640	1	PISTON, flow sensing
17	70667637	1	SPRING, flow sensing piston, outer
18	70664652	1	SPRING, flow sensing piston, inner
19	70664654	1	COVER, side (large)
	70922820	6	CAPSCREW, 12-pt. hd., 3/8"NC x 1-1/4"
20	70677437	1	GASKET, side cover (large)
21	70667635	1	COVER, side (small)
	70922820	5	CAPSCREW, 12-pt. hd., 3/8"NC x 1-1/4"
22	70677438	1	GASKET, side cover (small)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



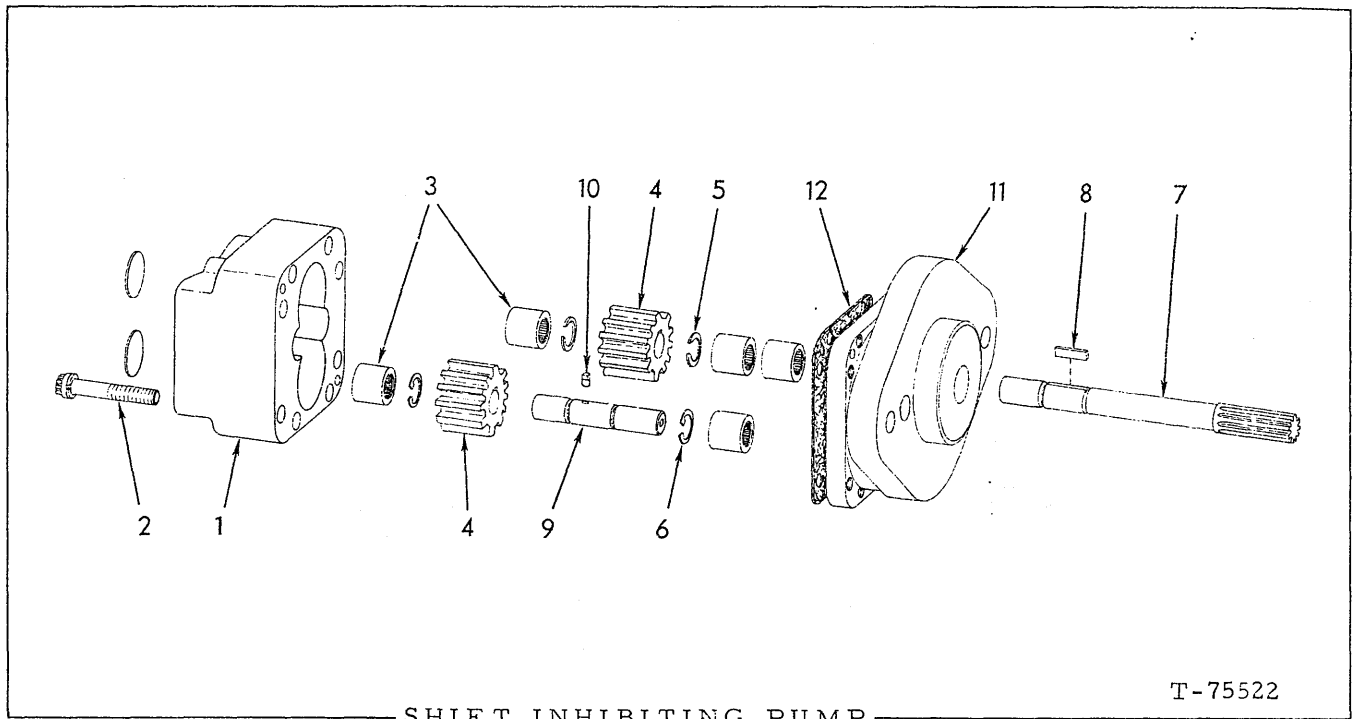
SHIFT INHIBITING PUMP AND LINES

T-75108

SHIFT INHIBITING PUMP LINES

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PUMP ASSEMBLY, oil supply, shift inhibiting valve (See page 176)
	70927373	2	CAPSCREW, 5/16"NC x 7/8"
	70910286	2	LOCKWASHER, 5/16"
2	70667563	1	□ GASKET, pump mounting
3	70667260	2	TUBE ASSEMBLY, suction (Includes nuts)
	70921326	2	CONNECTOR, flare type, 5/8" tube, 7/8" tube, 7/8"NF straight male thread (Includes O-RING)
	70921205	2	O-RING, connector
4	70654831	2	VALVE, check, suction line
5	70923561	2	□ O-RING, suction line check valve
5A	70669709	2	RING, O-ring retaining
6	70667709	1	RETAINER, check valve
	70920995	2	CAPSCREW, 3/8"NC x 2"
	70910287	2	LOCKWASHER, 3/8"
7	70923947	2	□ O-RING, retainer
8	-----	-	TUBE ASSEMBLY, oil jumper (See TRANSMISSION)
9	70659683	1	TUBE ASSEMBLY, pump to shift inhibiting valve, left (Includes nuts)
	70922522	1	CONNECTOR, flare type, 3/8" tube, 9/16" male end (Includes O-RING)
	70922523	1	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING)
	70921885	2	O-RING
10	70669179	1	TUBE ASSEMBLY, pump to shift inhibiting valve, right (Includes nuts)
	70922522	1	CONNECTOR, flare type, 3/8" tube, 9/16"male end (Includes O-RING)
	70922523	1	ELBOW, adjustable, 90°, flare type, 3/8" tube, 9/16"NF (Includes washer, nut and O-RING)
	70921885	2	O-RING
11	70659422	1	CLIP, supporting, left tube
12	70640675	1	CLIP, supporting, right tube
	70922763	1	CAPSCREW, 3/8"NC x 1"
	70929156	1	WASHER, plain, SAE std., 3/8"
	70911026	1	NUT, 3/8" NC
13	70662578	1	ANGLE, tube supporting

(Revised May 1976)



SHIFT INHIBITING PUMP

T-75522

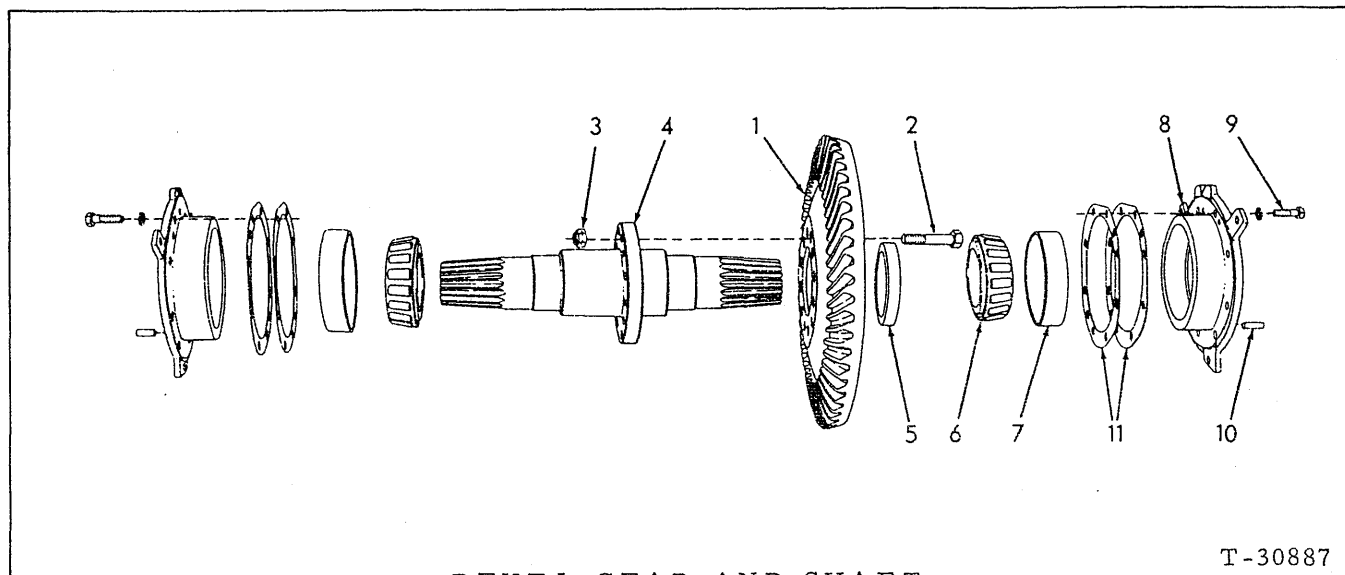
USAGE: See page 175

*Tractors prior to serial No.16650; also tractors serial No. 10S16551 thru 10S17000

** Tractors serial No. 10S17001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
-	70667752	1	PUMP ASSEMBLY
-	70669932	- 1	PUMP ASSEMBLY
1	-----	1	HOUSING, gear (Not serviced separately)
2	70914590	2	PLUG, expansion, 11/16" diam.
2	74999593	8	SCREW ASSEMBLY (Includes lockwasher)
	70923448	- 8	CAPSCREW, 12 point, 1/4"NC x 1-3/4"
	70904204	- 8	LOCKWASHER, 1/4"
3	74980021	5	BEARING, roller, shaft
4	70668479	2	GEAR
	70670157	- 2	GEAR
5	73015050	2	RING, snap, drive gear retaining
6	70099949	2	RING, snap, idler gear retaining
7	70668480	1	SHAFT, drive
	70670159	- 1	SHAFT, drive
8	70668482	1	KEY, drive gear (1/8" x 1/2")
9	70668481	1	SHAFT, idler
	70670158	- 1	SHAFT, idler
10	70244554	1	PIN, drive idler gear
11	-----	1	STATOR, pump (Not serviced separately)
12	70621363	- 1	GASKET, shimming (Use as required)

Each includes items 1 thru 12)



BEVEL GEAR AND SHAFT

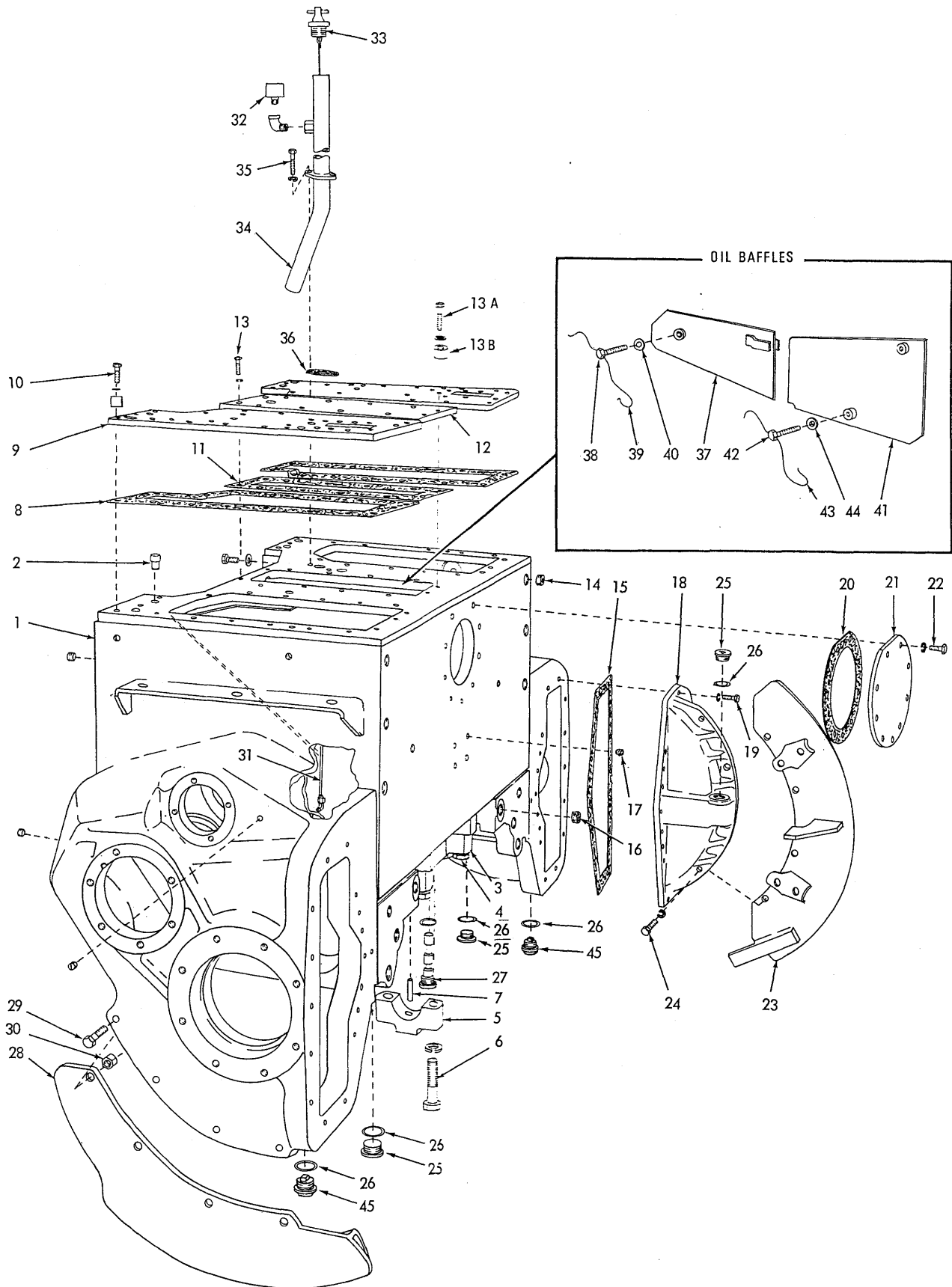
T-30887

* Tractors prior to serial No. 10S19276

** Tractors serial No. 10S19276 and up

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70629085	1 -	GEAR, bevel (45 teeth)
	70682606	- 1	GEAR, bevel (45 teeth)
2	70645321	12 12	CAPSCREW
3	70645319	12 12	NUT, elastic stop, 3/4" NF
4	70675017	1 -	SHAFT, bevel gear (Tractors prior to unit #18516)(If for first replacement on tractors prior to unit #17209 also order 1 CAPSCREW 70673521 and 1 WASHER 70673522)
	70093945	1 -	SHAFT, bevel gear (Tractors unit #18516 thru #19252)
	70684725	1 -	SHAFT, bevel gear (Tractors unit #19253 thru #19275)
	73107629	- 1	SHAFT, bevel gear
5	70645316	1 -	RING, spacing, shaft bearing
	70682595	- 1	RING, spacing, shaft bearing
6	70051997	2 -	CONE ASSY., shaft bearing
	70051989	- 2	CONE ASSY., shaft bearing
7	70042877	2 -	CUP, shaft bearing
	70051988	- 2	CUP, shaft bearing
8	70623006	2 -	CAGE ASSY., bearing (Includes item 10)
	70682602	- 2	CAGE ASSY., bearing (Includes item 10)
9	70927522	16 16	CAPSCREW, 1/2" NF x 1-3/4"
	70912441	16 16	LOCKWASHER, 1/2"
10	70052459	4 -	PIN, bearing cage
	70682598	- 4	PIN, bearing cage
11	70067483	12 12	SHIM, bearing adjustment (.005" thick)
	70067484	10 12	SHIM, bearing adjustment (.007" thick)
	70067485	4 4	SHIM, bearing adjustment (.030" thick)

(Revised May 1976)



MAIN HOUSING

T-75109

MAIN HOUSING

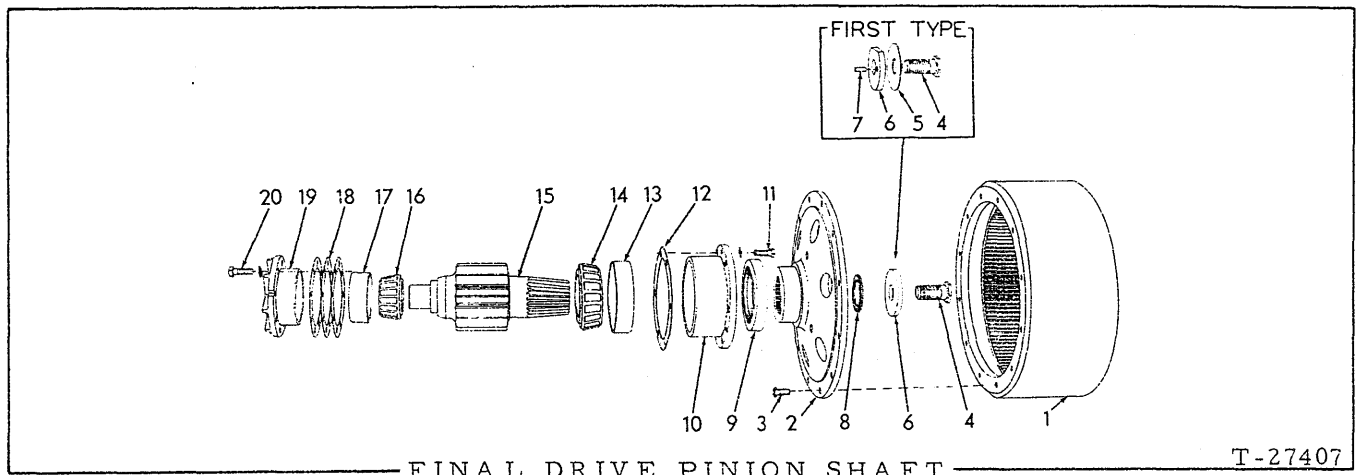
ITEM	PART NO.	QTY.	DESCRIPTION
1	70684750	1	HOUSING ASSY. (Includes items 2 thru 7) (Tractors unit #18516 and up) (Tractors prior to unit #18516 order FINAL DRIVE KIT 70689189)
	70911081	2	PLUG, pipe, slotted-hd., 1/4" NPT
	70904223	2	PLUG, pipe, ctsk-hd., 1/2" NPT
2	70643740	4	PIN, dowel, clutch compartment covers
3	70694417	2	CAP, track frame pivot shaft, outer
4	70922175	4	CAPSCREW, 1" NF x 4"
	70914728	4	LOCKWASHER, 1"
5	70664301	2	CAP, track frame pivot shaft, inner
6	70922175	4	CAPSCREW, 1" NF x 4"
	70914728	4	LOCKWASHER, 1"
7	70664270	2	PIN, dowel, pivot shaft inner cap
8	70667168	2	GASKET, clutch compartment cover plate
9	70667165	2	PLATE, cover, clutch compartment
10	70927522	28	CAPSCREW, 1/2" NF x 1-3/4" } Tractors prior to
	70912441	28	LOCKWASHER, 1/2" } unit #18528
	70921570	28	CAPSCREW, 1/2" NF x 2-1/2" } Tractors unit #18528
	70677008	28	WASHER, plain } and up
11	70651421	1	GASKET, bevel gear compartment top cover
12	70651369	1	COVER, bevel gear compartment, top
13	70927522	4	CAPSCREW, 1/2" NF x 1-3/4" } 8 additional used prior
	70912441	4	LOCKWASHER, 1/2" } to tractors unit #18528
13A	70921570	8	CAPSCREW, 1/2" NF x 2-1/2" } Tractors unit #18528
	70677008	8	WASHER, plain } and up
13B	70097413	36	BLOCK, capscrew (Effective tractors unit #18528)
14	70052979	6	PLUG, thread protecting (1-1/4" NF, socket-hd.)
15	70621486	2	GASKET, final drive compartment cover
16	70664852	4	CORK, thread protecting (1-1/4" diam.)
17	70664851	4	CORK, thread protecting (5/8" diam.)
18	70656983	1	COVER, final drive compartment, left side
	70656984	1	COVER, final drive compartment, right side
19	70922726	32	CAPSCREW, 1/2" NF x 1-1/2"
	70912441	32	LOCKWASHER, 1/2"
20	70052976	1	GASKET, gear compartment cover
21	70052977	1	COVER, bevel gear compartment, rear
22	70927205	9	CAPSCREW, Nylok, 5/8" NC x 1-1/4"
	70912942	9	LOCKWASHER, 5/8"
23	70647567	1	GUARD, track sprocket, upper left } Special equipment
	70647568	1	GUARD, track sprocket, upper right }
24	70921174	8	CAPSCREW, 5/8" NC x 2-1/2"
	70912942	8	LOCKWASHER, 5/8"

(Continued)

MAIN HOUSING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	70035250	4	PLUG, filling and drain (1 additional required for Tractors unit #19103 thru #19139, except #19134)
26	70667252	7	GASKET, filling and drain plugs (1 additional required for Tractors unit #19103 thru #19139, except #19134)
27	70067543	1	PLUG, drain, bevel gear compartment (magnetic)
28	70647565	1	GUARD, track sprocket, lower left } Special equipment
	70647566	1	
29	70921476	8	CAPSCREW, 5/8" NF x 2-1/2"
30	70072366	8	NUT, high, 5/8" NF
31	70667561	1	TUBE ASSY., final drive breather, left (Includes nut)
	70667562	1	TUBE ASSY., final drive breather, right (Includes nut)
	70919173	2	ELBOW, flare type, 1/4" tube, 1/8" NPT male
	70640677	4	CLIP, tube supporting
	70922300	4	CAPSCREW, 3/8" NC x 3/4"
32	70679375	1	BREATHING ASSY. (Serviced only as a unit)
	70919824	1	ELBOW, street, 90°, 3/4" NPT
33	70667412	1	GAUGE, oil level
34	70667625	1	TUBE, oil filler (Tractors prior to unit #17754 excluding #17737 and including #17759, #17760 and #17769)
	70678866	1	
35	70922726	2	CAPSCREW, 1/2" NF x 1-1/2"
	70912441	2	LOCKWASHER, 1/2"
36	70632368	1	GASKET, oil filler tube
37	70640109	1	BAFFLE, oil, front section
38	70927483	1	CAPSCREW, drilled-hd., 3/8" NC x 2"
39	70023633	1	WIRE, locking, 1/16" x 12"
40	70677006	1	WASHER, plain
41	70667670	1	BAFFLE, oil, rear section
42	70927483	2	CAPSCREW, drilled-hd., 3/8" NC x 2"
43	70023756	1	WIRE, locking, 1/16" x 26"
44	70677006	2	WASHER, plain
45	70696918	2	PLUG, final drive compartment drain (magnetic)

(Revised July 1975)



T-27407

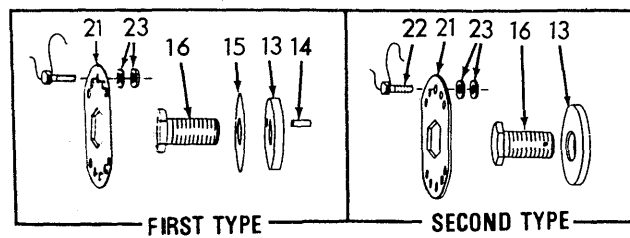
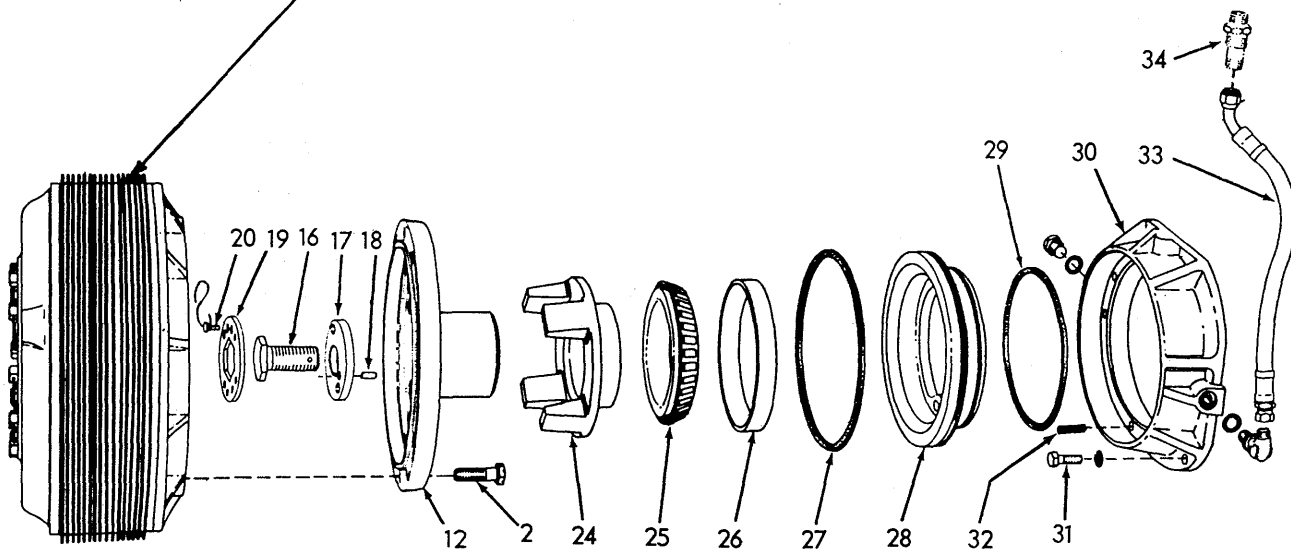
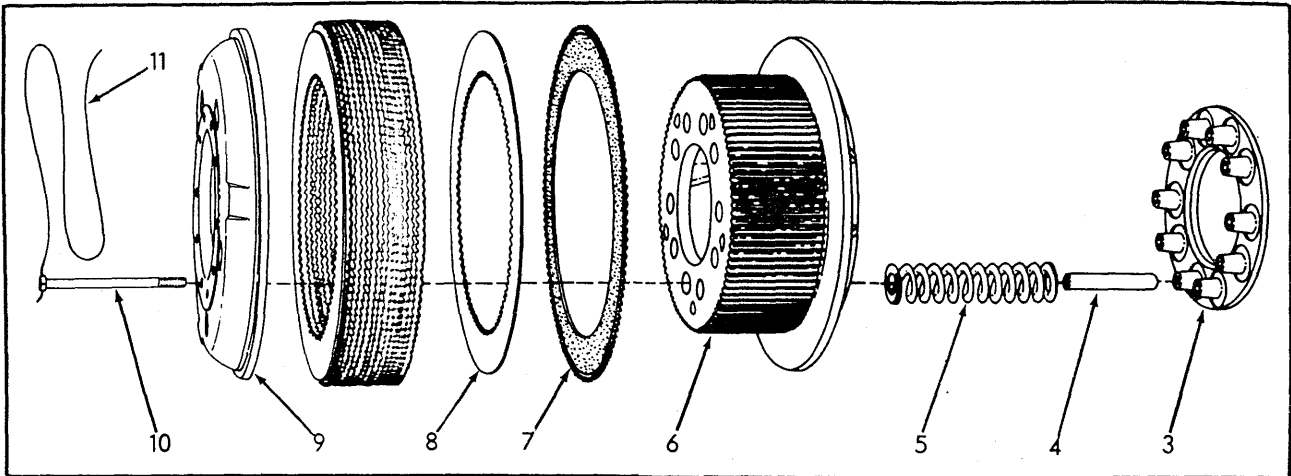
FINAL DRIVE PINION SHAFT

USAGE: Tractors prior to serial No. 10S18516 (See page 185 for Second type)

ITEM	PART NO.	QTY.	DESCRIPTION
1	70093953	2	DRUM, brake
2	70623344	2	HUB, brake drum
3	70650811	24	BOLT, brake drum (5/8"NC x 1-1/2")
4	-----	2	CAPSCREW, hub retaining (Tractors prior to unit #17209. Order CAPSCREW 70673521 and item 6)
	70673521	2	CAPSCREW, hub retaining (Nylok)(Tractor unit #17209 and up)
5	70623347	2	WASHER, locking, hub retaining (Tractors prior to unit #17209)
6	-----	2	WASHER ASSY., hub retaining (Includes item 7)(Tractors prior to unit #17209. Order WASHER 70673522 and item 4)
	70673522	2	WASHER, hub retaining (Tractor unit #17209 and up)
7	70052066	2	PIN, hub retaining washer (Tractors prior to unit #17209)
8	70623346	2	SEAL, oil, pinion shaft (rubber)
9	70623350	2	SEAL, oil, brake drum hub
10	-----	2	*CAGE, inner bearing cup
11	70927522	12	CAPSCREW, 1/2"NF x 1-3/4"
	70912441	12	LOCKWASHER, 1/2"
12	70052420	2	GASKET, bearing cage
13	-----	2	*CUP, inner bearing
14	-----	2	*CONE ASSY., inner bearing
15	-----	2	*PINION (13 teeth)
16	-----	2	*CONE ASSY., outer bearing
17	-----	2	*CUP, outer bearing
18	70084048	4	SHIM, bearing adjustment (.005" thick)
	70084049	4	SHIM, bearing adjustment (.007" thick)
	70084050	20	SHIM, bearing adjustment (.010" thick)
19	-----	2	*CAGE, outer bearing cup
20	70927522	8	CAPSCREW, 1/2"NF x 1-3/4"
	70912441	8	LOCKWASHER, 1/2"

Use as required

NOTE: For initial service on items indicated by asterisk (*) order FINAL DRIVE KIT 70689189 (See page 9). Once the FINAL DRIVE KIT has been installed, the design on this page becomes void and service thereafter is governed by the design shown on page 185.



STEERING CLUTCHES

T-40590

https://truckmanualshub.com/
STEERING CLUTCHES

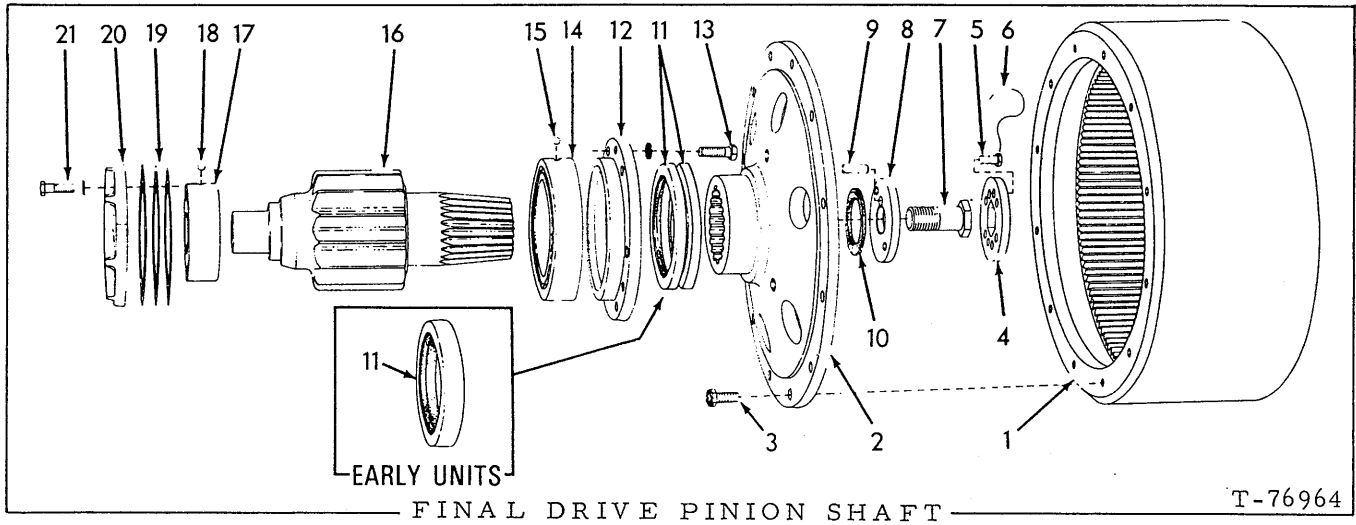
ITEM	PART NO.	QTY.	DESCRIPTION
1	70623010	2	CLUTCH ASSY. (Consists of items 3 thru 11)
2	70650812	24	BOLT, self-locking, 5/8"NC x 2"
3	70051836	2	PLATE, throwout
4	70052118	20	SPACER, throwout plate
5	70623016	20	SPRING, pressure
6	70650691	2	HUB, steering clutch
7	70623017	32	DISC, friction (bi-metallic)
8	70623018	36	DISC, friction (steel)(Use as required)
9	70054809	2	PLATE, pressure
10	70929079	20	CAPSCREW, throwout plate, 1/2" NF x 6-1/2"
11	70052519	4	WIRE, locking, 1/16" x 39"
12	70623013	2	HUB, driving
13	-----	2	WASHER ASSY., hub retaining (Includes item 14)(Tractor prior to unit #17209. Order WASHER 70673522 and item 16)
	70673522	2	WASHER, hub retaining (Tractors unit #17209 thru #18515)
14	70052066	2	PIN, hub retaining washer
15	70623347	2	WASHER, locking hub retaining bolt
16	-----	2	CAPSCREW, hub retaining (Tractors prior to unit #17209. Order CAPSCREW 70673521 and item 13)
	70673521	2	CAPSCREW, hub retaining (Tractor unit #17209 thru #18515)
	70681543	2	CAPSCREW, hub retaining (Tractors unit #18516 thru #19275)
	70684726	2	CAPSCREW, hub retaining (Tractors unit #19276 and up)
17	70681560	2	WASHER ASSY., hub retaining (Includes item 18)
18	70052066	2	PIN, hub retaining washer
19	70681558	2	LOCK, hub retaining capscREW
20	70928506	4	CAPSCREW, drilled-hd., 3/8"NC x 5/8"
	70023633	2	WIRE, locking, 1/16" x 12"
21	70684568	2	LOCK, hub retaining capscREW
22	70927597	4	CAPSCREW, drilled-hd., 3/8"NC x 1-1/2"
	70023633	2	WIRE, locking, 1/16" x 12"
23	70075679	8	KEY, lock spacing
24	70623014	2	SLEEVE, throwout
25	70623007	2	CONE ASSY., clutch throwout bearing

(Continued)

(Revised May 1976)

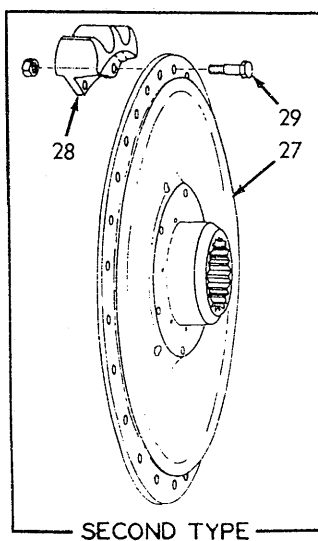
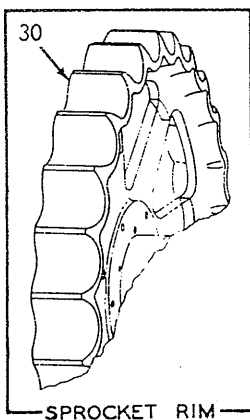
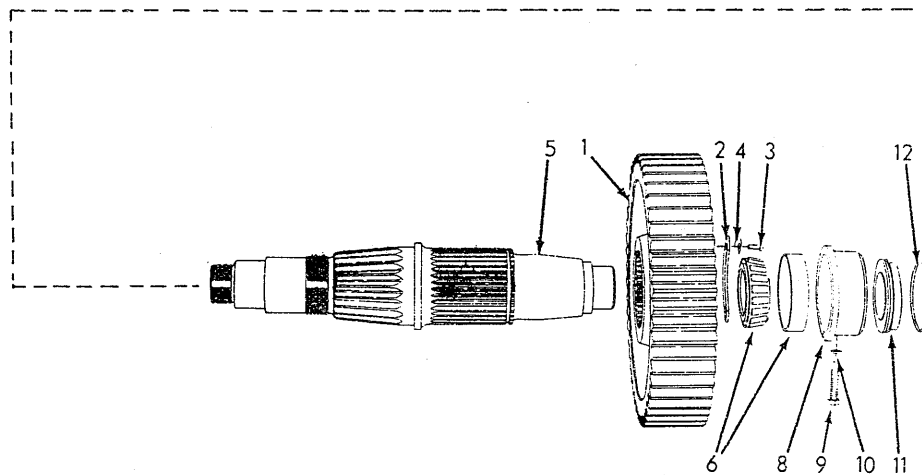
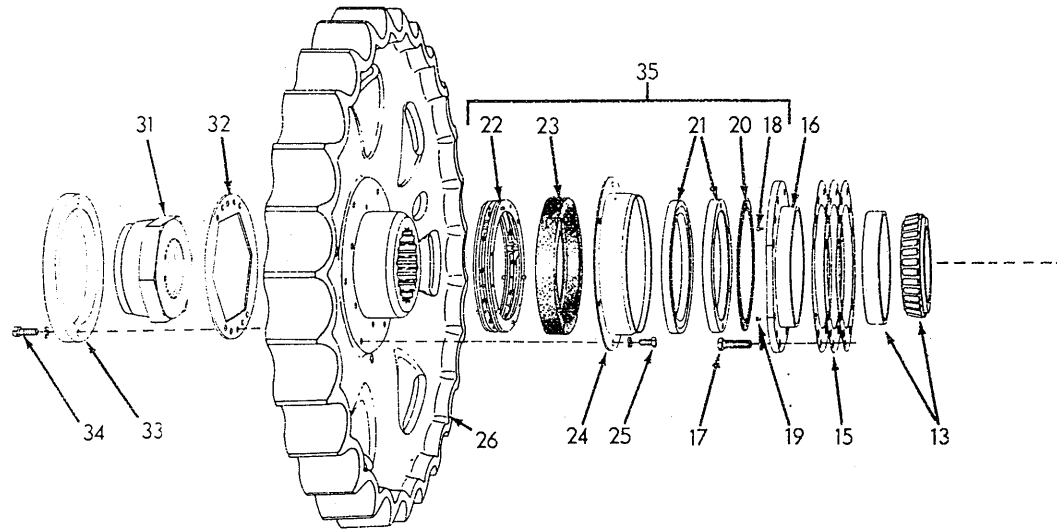
STEERING CLUTCHES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	70623008	2	CUP, clutch throwout bearing
27	70623003	2	RING, sealing, actuating piston, outer
28	70623012	2	PISTON, actuating (Tractors prior to unit #19276)
	70682601	2	PISTON, actuating (Tractors unit #19276 and up)
29	70623004	2	RING, sealing, actuating piston, inner
30	70642448	2	RING, collector
	70921573	2	PLUG, hex-hd., 3/4" straight thread (Includes O-RING)
	70921349	2	O-RING, plug
31	70920574	6	CAPSCREW, 1/2"NC x 1-3/8"
	70912441	6	LOCKWASHER, 1/2"
32	70040475	6	SPRING, actuating piston
33	70645074	2	HOSE, oil pressure (See HOSE PARTS)
	70921402	2	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" straight thread (Includes washer, nut and O-RING)
	70921349	2	O-RING, elbow
34	-----	2	UNION (See STEERING CONTROL VALVE AND LINES)



USAGE: Tractors serial No. 10S18516 and up

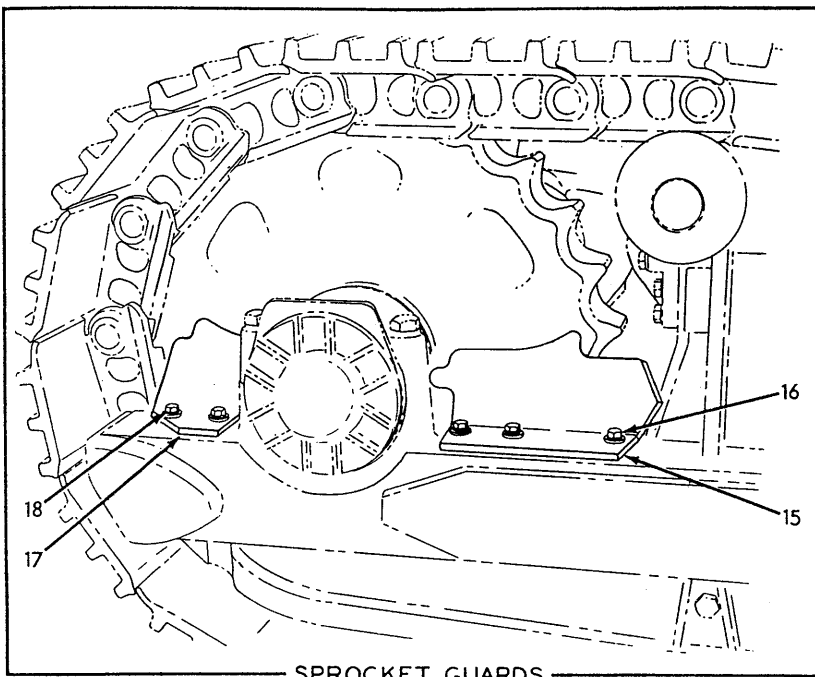
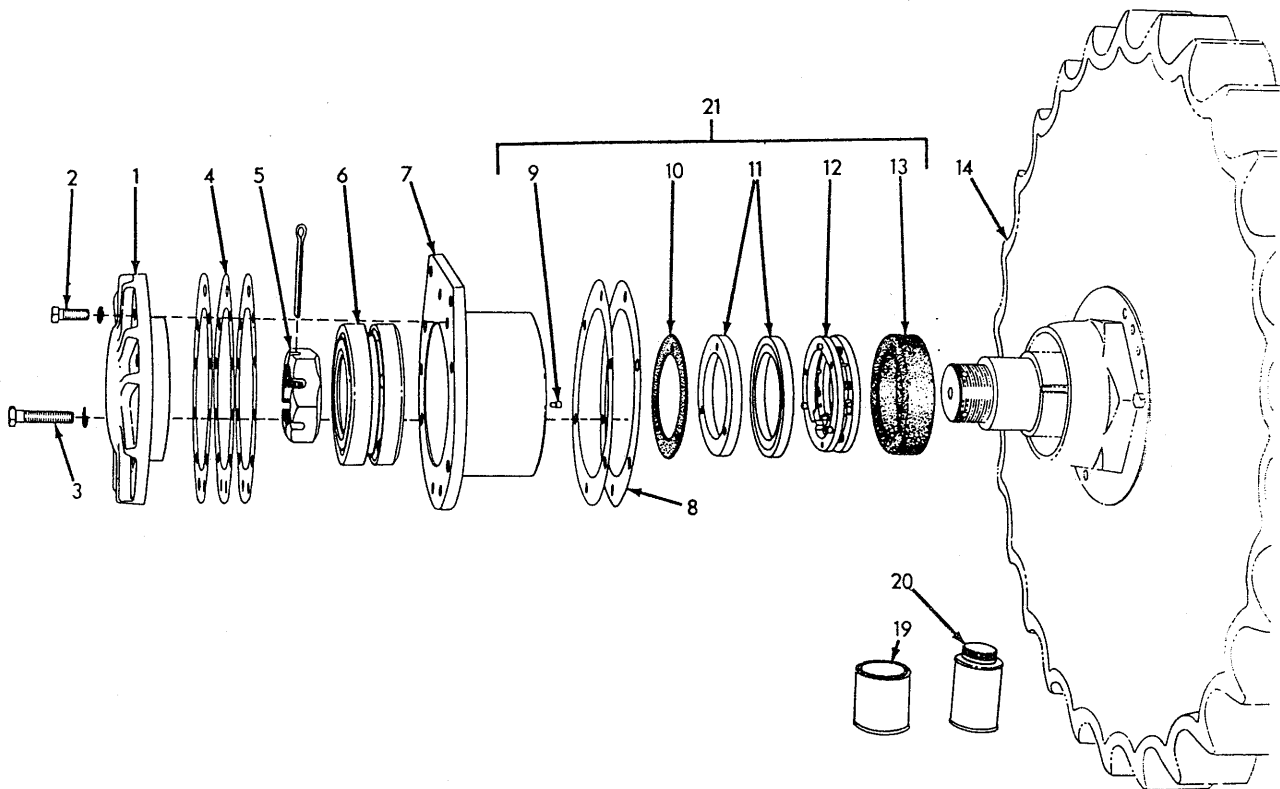
ITEM	PART NO.	QTY.	DESCRIPTION
1	70093953	2	DRUM, brake
2	70623344	2	HUB, brake drum
3	70650811	24	BOLT, brake drum (5/8"NC x 1-1/2")
4	70681558	2	LOCK, hub retaining capscrew
5	70928506	4	CAPSCREW (3/8"NC x 5/8")
6	70023633	2	WIRE, locking, 1/16" x 12"
7	70681543	2	CAPSCREW, hub retaining (Tractors prior to unit no. 19253)
	70684726	2	CAPSCREW, hub retaining (Tractors unit no. 19253 and up)
8	70681560	2	WASHER ASSY., hub retaining (Includes item 9)
9	70052066	2	PIN, hub retaining washer
10	70623346	2	SEAL, oil, pinion shaft (rubber)
11	70623350	2	SEAL, oil, brake drum hub (Tractors prior to unit #19904)
	70695225	4	SEAL, oil, brake drum hub (Tractor unit #19904 and up)
12	70684128	2	RETAINER, inner bearing
13	70927522	12	CAPSCREW, 1/2"NF x 1-3/4"
	70912441	12	LOCKWASHER, 1/2"
14	70690219	2	BEARING, inner
15	70915771	2	BALL, inner bearing (steel, 1/4" diam.)
16	70684126	2	PINION (13 teeth)
17	70690218	2	BEARING, outer
18	70905357	2	BALL, outer bearing (steel, 3/16" diam.)
19	70084050	20	SHIM, bearing adjustment (.010" thick. Use as required)
20	70684130	2	RETAINER, outer bearing
21	70927522	8	CAPSCREW, 1/2"NF x 1-3/4"
	70912441	8	LOCKWASHER, 1/2"



FINAL DRIVE SPROCKET, SHAFT AND GEAR

ITEM	PART NO.	QTY.	DESCRIPTION
1	70651501	2	GEAR, driving (43 teeth)
2	70052161	4	LOCK, gear retaining
3	70922763	8	CAPSCREW, 3/8" NC x 1"
4	70052444	8	LOCK, capscrew
5	70671082	2	SHAFT, sprocket
6	70690618	2	CUP AND CONE ASSY. (Serviced only as a unit)
8	70067350	2	CAGE, inner bearing cup
9	70067348	2	SETSCREW, hex-hd., dog-pt., 5/8" NF x 3"
10	70049918	2	WASHER, plain (copper)
11	70091573	2	COVER, inner bearing
12	70923824	2	O-RING, inner bearing cover
13	70690619	2	CUP AND CONE ASSY. (Serviced only as a unit)
15	{ 70067518 70067519 70067520	{ 4 4 20	{ SHIM, bearing adjustment (.005" thick) SHIM, bearing adjustment (.007" thick) SHIM, bearing adjustment (.010" thick) } Use as required
16	{ 70082310 70678677	{ 2 2	{ CAGE ASSY., intermediate bearing (Includes items 18 and 19) GUARD (Special equipment)
17	70921168 70912942	16 16	CAPSCREW, 5/8" NF x 2" LOCKWASHER, 5/8"
18	70084432	6	☐ PIN, locating, seal ring (9/16" long)
19	70080547	6	☐ PIN, locating, seal ring gasket (13/32" long)
20	70082320	2	☐ GASKET, seal ring
21	70082322	4	☐ RING, inner seal
22	70669770	2	☐ FOLLOWER ASSY., inner seal (Serviced only as a unit)
23	70082323	2	☐ BOOT, inner seal
24	{ 70082321 70678674	{ 2 2	{ GUARD, seal (Standard) GUARD, ring (Special equipment)
25	70921175 70912441	12 12	CAPSCREW, 1/2" NC x 1" LOCKWASHER, 1/2"
26	70662274	2	SPROCKET, track driving (Standard, has flat tooth-base) (Tractors prior to unit #17005)
27	{ 70668719 70679534 70693694	{ 2 2 2	{ HUB, sprocket segment (Tractors unit #17005 thru #18062) HUB, sprocket segment (Tractors unit #18063 thru #20312) HUB, sprocket segment (Tractor unit #20313 and up)
28	{ 70668717 70679509	{ 18 18	{ SEGMENT, sprocket (Tractors unit #17005 thru #18062) SEGMENT, sprocket (Tractors unit #18063 and up)
29	{ 70097056 70070400 70679508 70693689 70679507	{ 54 54 54 54 54	{ BOLT, sprocket segment NUT, high, 7/8" NF } Tractors unit #17005 thru #18062 BOLT, sprocket segment (Tractors unit #18063 thru #20312) BOLT, sprocket segment (Tractor unit #20313 and up) NUT, 7/8" NF (Tractor unit #18063 and up)
30	70662275	2	SPROCKET RIM (Flat tooth-base. Requires welding to install)
31	70082318	2	NUT, sprocket retaining
32	70082315	2	LOCK, sprocket retaining nut
33	70630056	2	RING, nut protecting
34	70920585 70912441	4 4	CAPSCREW, 1/2" NC x 1-3/4" LOCKWASHER, 1/2"
35	70091978	2	SEAL KIT, final drive (Includes parts for one (1) side only; items 18 thru 23)

☐ Components of item 35

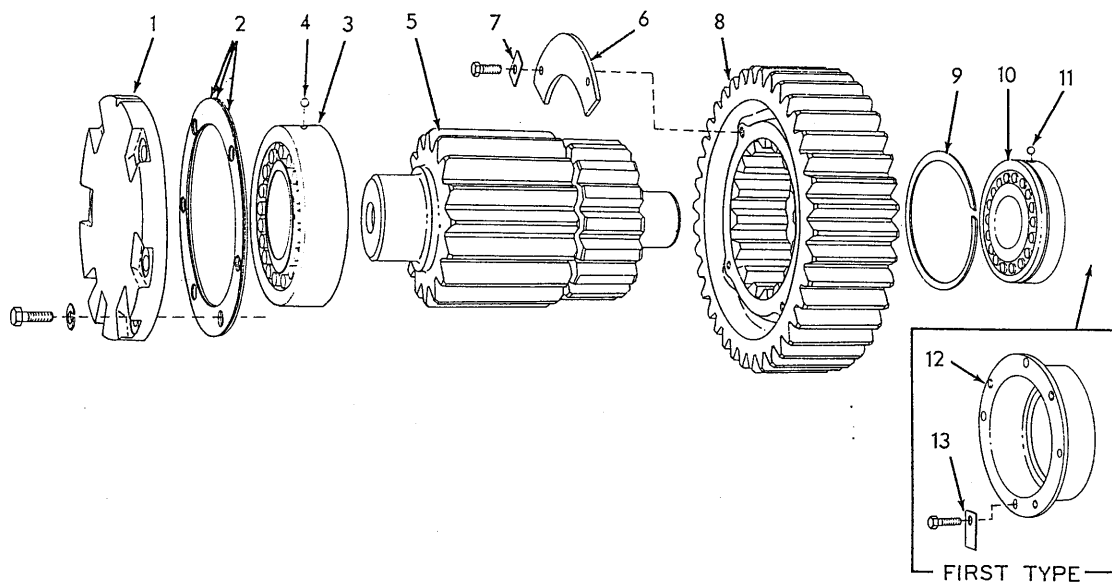


SPROCKET GUARDS

FINAL DRIVE OUTBOARD BEARING AND SEAL

ITEM	PART NO.	QTY.	DESCRIPTION
1	70082316	2	CAP, outboard bearing
2	70927574	6	CAPSCREW, 1/2"NF x 1-3/8"
	70912441	6	LOCKWASHER, 1/2"
3	70013467	12	CAPSCREW, 5/8"NF x 3" (Tractors prior to #16209)
	70921597	12	CAPSCREW, 5/8"NC x 3" (Tractors #16209 and up)
	70912942	12	LOCKWASHER, 5/8"
4	70082358	4	SHIM, outboard bearing cap (.005" thick)
	70082357	4	SHIM, outboard bearing cap (.007" thick)
	70082356	8	SHIM, outboard bearing cap (.010" thick)
5	70082311	2	NUT, retaining, outboard bearing
	70904016	2	PIN, cotter, 3/8" x 4"
6	70683970	2	BEARING, roller, outboard (Each consists of 1 roller assy. and 2 cups. Serviced only as a unit)
7	70082327	2	CAGE, outboard bearing
8	70069761	12	SHIM, outboard bearing cage (.015" thick. Use as required)
9	70084432	6	☐ PIN, locating, seal ring
10	70082309	2	☐ GASKET, seal ring
11	70082303	4	☐ RING, seal
12	70082317	2	☐ FOLLOWER ASSY., seal (Serviced only as a unit)
13	70082312	2	☐ BOOT, seal
14	-----	-	SPROCKET (See SPROCKET, SHAFT AND GEAR)
15	70622411	1	PLATE, front closure, left side
	70622412	1	PLATE, front closure, right side
	70672263	1	PLATE, front closure, left side
	70672264	1	PLATE, front closure, right side
16	70921403	6	CAPSCREW, 5/8"NC x 2"
	70677010	6	WASHER, plain
17	70622413	1	PLATE, rear closure, left side
	70622414	1	PLATE, rear closure, right side
	70672265	1	PLATE, rear closure, left side
	70672266	1	PLATE, rear closure, right side
18	70921403	4	CAPSCREW, 5/8"NC x 2"
	70677010	4	WASHER, plain
19	70033288	-	CEMENT, neoprene, 1/2 pt. can
20	70054890	-	SOLVENT, neoprene cement, 1/2 pt. can
21	70091979	2	SEAL KIT, final drive (Includes parts for one (1) side only; items 9 thru 13)

☐ Components of item 21



FINAL DRIVE INTERMEDIATE GEARS

T-75110

*Tractors prior to Serial No. 10S18516

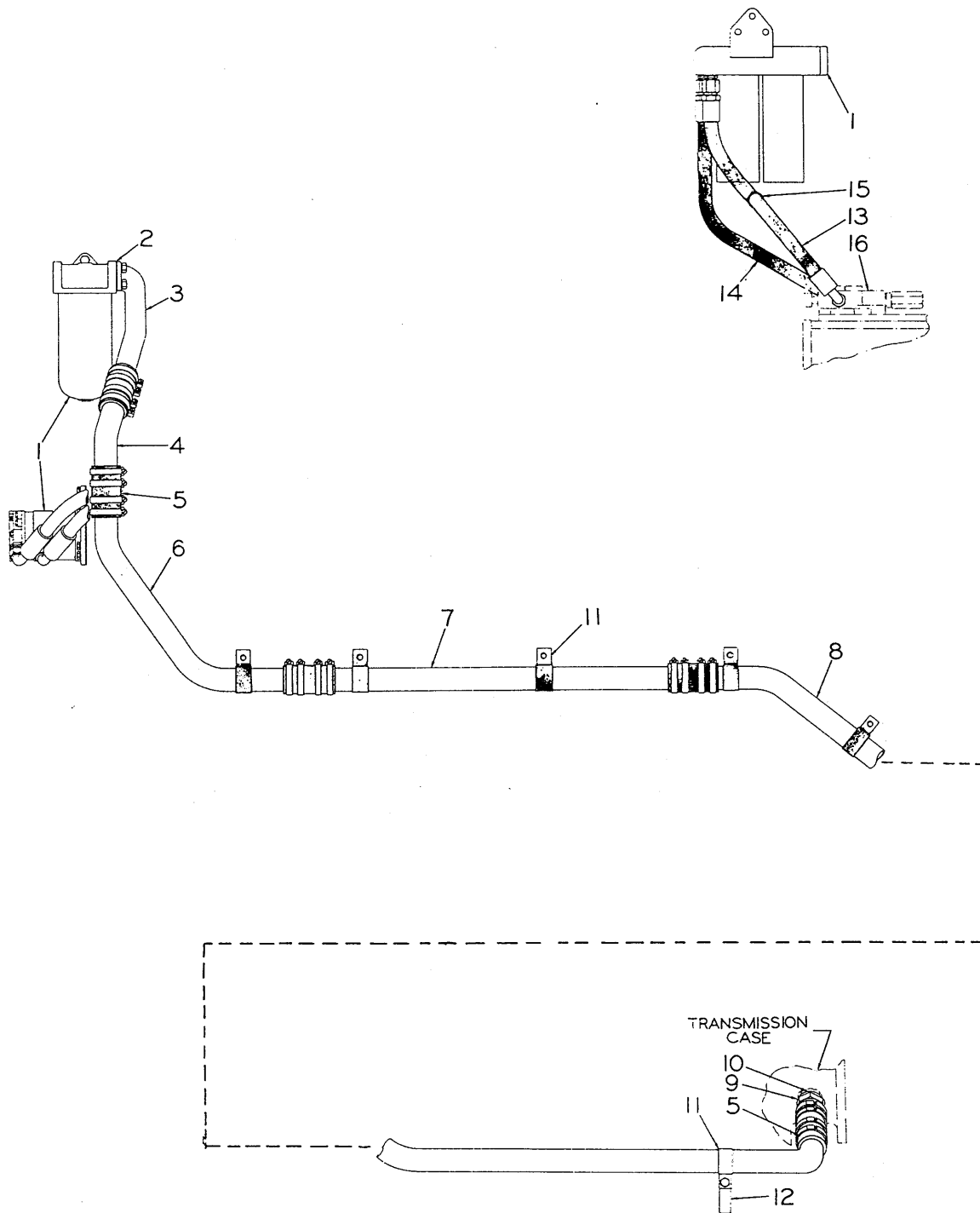
**Tractors Serial No. 10S18516 and up

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	2 -	RETAINER, pinion outer bearing (See NOTE)
	70684140	- 2	RETAINER, pinion outer bearing
	70927529	12 12	CAPSCREW, 5/8"NF x 1-3/4"
	70912942	12 12	LOCKWASHER, 5/8"
2	70666872	2 -	GASKET, bearing retainer
	70684139	- 20	SHIM, bearing retainer
3	70680516	2 -	BEARING, roller, pinion (outer)
	70689128	- 2	BEARING, roller, pinion (outer)
4	70905360	2 2	BALL, outer bearing (steel, 3/8" diam.)
5	-----	2 -	PINION (13 teeth)(See NOTE)
	70684136	- 2	PINION (13 teeth)
6	70052372	4 4	LOCK, gear
	70923276	8 8	CAPSCREW, 3/8"NF x 1"
7	70052444	8 8	LOCK, capscREW
8	70651498	2 -	GEAR (34 teeth)(Tractors prior to unit #18096)
	70680947	2 2	GEAR (34 teeth)(Tractors unit #18096 and up)
9	70684176	- 2	RING, inner bearing
10	70672615	2 -	BEARING, roller, pinion (inner, 5-1/2" O.D.)
	70689127	- 2	BEARING, roller, pinion (inner, 6" O.D.)
11	70915771	- 2	BALL, inner bearing (steel, 1/4" diam.)
12	-----	2 -	CAGE, pinion inner bearing (See NOTE)
	70923276	8 -	CAPSCREW, 3/8"NF x 1"
13	70068999	8 -	LOCK, capscREW

NOTE: For initial replacement order FINAL DRIVE KIT.
See PACKAGED PARTS. Rework of Main Housing is also required per Sketch S-5787. Thereafter service individual parts as listed in second column.

M E M O

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

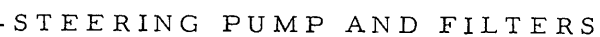


STEERING CONTROL HYDRAULICS

T-75091

<https://truckmanualshub.com/>
STEERING CONTROL HYDRAULICS

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	STEERING PUMP AND FILTERS (See page 165 for details)
2	70652011	1	GASKET, suction line elbow
3	70667148	1	ELBOW, suction line
	70920582	4	CAPSCREW, 1/2"NC x 1-1/4"
	70912441	4	LOCKWASHER, 1/2"
4	70667187	1	TUBE, suction line, front upper section
5	70623234	5	HOSE, suction line
	70921913	20	CLAMP, hose, 1-13/16" to 2-3/4" diam.
6	70641763	1	TUBE, suction line, front section
7	70623094	1	TUBE, suction line, intermediate front section
8	70653965	1	TUBE, suction line, rear section
9	70641963	1	ADAPTER, suction line
10	70923578	1	O-RING, suction line adapter
11	70623235	6	CLIP, tube supporting
	70927219	1	CAPSCREW, 1/2"NC x 3/4"
	70921175	5	CAPSCREW, 1/2"NC x 1"
	70912441	6	LOCKWASHER, 1/2"
	70910325	1	NUT, 1/2"NC
12	70653989	1	ANGLE, tube supporting
13	70667245	1	HOSE, filter to valve, left (See HOSE PARTS)
	70919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	70922935	1	CONNECTOR, flare type, 3/4" tube, 3/4"NF male end (Includes O-RING 70921349)
14	70652911	1	HOSE, filter to valve, right (See HOSE PARTS)
	70919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	70922965	1	ELBOW, adjustable, 90°, flare type, 3/4" tube, 3/4"NF male end (Includes O-RING 70921349)
15	70644612	1	CLIP, hose supporting
	70677006	1	WASHER, plain,
16	-----	-	VALVE, control (See CONTROL VALVE AND LINES)



194

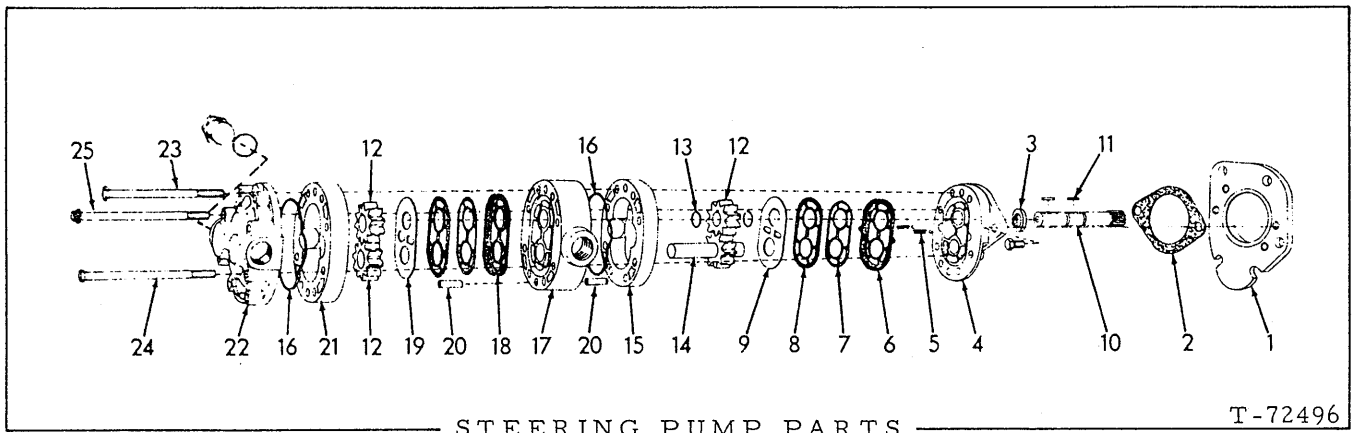
<https://truckmanualshub.com/>
STEERING PUMP AND FILTERS

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PUMP ASSY. (See page 197 for parts)
2	70922848	3	CAPSCREW, 3/8" NC x 3-1/4"
	70910287	3	LOCKWASHER, 3/8"
3	70921569	2	CAPSCREW, 7/16" NC x 1-1/4"
	70914678	2	LOCKWASHER, 7/16"
4	74371742	1	GASKET, pump mounting
5	70655999	1	GASKET, inlet elbow
6	70667180	1	ELBOW, pump inlet
7	70922763	1	CAPSCREW, 3/8" NC x 1"
8	70922848	1	CAPSCREW, 3/8" NC x 3-1/4"
	70910287	2	LOCKWASHER, 3/8"
9	70667186	1	TUBE, pump inlet
10	70623234	2	HOSE, suction line
	70921913	8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
11	70667162	1	ELBOW, pump inlet
	70920582	4	CAPSCREW, 1/2" NC x 1-1/4"
	70912441	4	LOCKWASHER, 1/2"
12	70652011	1	GASKET, inlet elbow
13	70651113	1	FILTER ASSY., suction line (See page 199 for parts)
	70920585	3	CAPSCREW, 1/2" NC x 1-3/4"
	70912441	3	LOCKWASHER, 1/2"
	70911028	3	NUT, 1/2" NC
14	70667232	1	BRACKET, filter mounting
	70920585	3	CAPSCREW, 1/2" NC x 1-3/4"
	70912441	3	LOCKWASHER, 1/2"
15	70644607	1	HOSE, pump to rear filter (See HOSE PARTS)
	70922981	1	CONNECTOR, flare type, 3/4" tube, 1-1/16" straight male thread (Includes O-RING)
	70921206	1	O-RING
16	70645239	1	HOSE, pump to front filter (See HOSE PARTS)
	70922981	1	CONNECTOR, flare type, 3/4" tube, 1-1/16" straight male thread (Includes O-RING)
	70921206	1	O-RING
17	70667243	1	TUBE ASSY., pump to rear filter (Includes nut)
	70919342	1	CONNECTOR, flare type, 3/4" tube, 3/4" NPT male
18	70667242	1	TUBE ASSY., pump to front filter (Includes nuts)
	70919342	1	CONNECTOR, flare type, 3/4" tube, 3/4" NPT male
19	70633797	1	FILTER ASSY., pressure line (See page 198 for parts)
	70920583	3	CAPSCREW, 1/2" NC x 1-1/2"
	70912441	3	LOCKWASHER, 1/2"
20	70094467	2	CLIP, tube supporting
	70927400	1	CAPSCREW, 3/8" NC x 5/8" (Tractors without Automatic Safety Brakes)
	70920995	1	CAPSCREW, 3/8" NC x 2" (Tractors with Automatic Safety Brakes)
	70677006	1	WASHER, plain, SAE std., 3/8"
20A	70617952	1	BLOCK (Tractors with Automatic Safety Brakes)

(Continued)

STEERING PUMP AND FILTERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70665684	2	CLIP, hose supporting (For two 1-3/16" diam. hoses)
22	70922300	1	CAPSCREW, 3/8" NC x 3/4"
	70677006	1	WASHER, plain
23	70921175	1	CAPSCREW, 1/2" NC x 1"
	70912441	1	LOCKWASHER, 1/2"
	70928188	1	WASHER, plain, SAE std., 1/2"
	70911028	1	NUT, 1/2" NC
24	70660748	2	ANGLE, hose supporting
25	70927219	1	CAPSCREW, 1/2" NC x 3/4"
	70912441	1	LOCKWASHER, 1/2"
26	70644612	6	CLIP, hose supporting (1-3/16" diam., 17/32" bolt-hole)
28	70922763	2	CAPSCREW, 3/8" NC x 1"
	70910287	2	LOCKWASHER, 3/8"
	70929156	1	WASHER, plain
	70677006	1	WASHER, plain
	70911026	2	NUT, 3/8" NC
29	70920582	1	CAPSCREW, 1/2" NC x 1-1/4"
	70912441	1	LOCKWASHER, 1/2"
	70928188	1	WASHER, plain, SAE std., 1/2"
	70911028	1	NUT, 1/2" NC
30	70654106	1	ANGLE, hose supporting
31	70631115	1	BRACKET, hose supporting (Tractors prior to unit #17227)
	70673517	1	BRACKET, hose supporting (Tractors unit #17227 and up)
	70922763	2	CAPSCREW, 3/8" NC x 1"
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8" NC (Tractors prior to unit #17227)
32	70644611	2	CLAMP, hose supporting (Half only. Plain holes. For crimp-type hose)
	70927218	2	CAPSCREW, 3/8" NC x 2-3/4"
	70910287	2	LOCKWASHER, 3/8"
	70677006	2	WASHER, plain
	70911026	2	NUT, 3/8" NC
33	70644614	1	PLATE, hose supporting clamps
	70920582	2	CAPSCREW, 1/2" NC x 1-1/4"
	70912441	2	LOCKWASHER, 1/2"



STEERING PUMP PARTS

T-72496

USAGE: See page 195

* First type
** Second type with center body and rear plate O-ring

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
-	-----	1	-	PUMP ASSY. (Includes items 1 thru 25)(Order PUMP ASSY. 70676787)
-	70676787	-	1	PUMP ASSY. (Includes items 3 thru 25)(Original equipment)
-	70699888	-	1	PUMP ASSY. (Includes items 3 thru 25)(Service replacement)
	70921204	-	1	PLUG, hex-hd., 1-1/16" straight thd. (Includes O-RING)
	70921206*	-	1	O-RING
1	70653932	1	1	PLATE, adapting
	70922063	2	2	CAPSCREW, 12 pt. 7/16" NC x 1"
	70914678	2	2	LOCKWASHER, 7/16"
2	70674412	1	1	GASKET, front plate
3	73119464	1	1	SEAL, oil
4	71126490	1	1	PLATE ASSY., front (Includes bushings)
5	70650679	2	2	SPRING, check valve
	70915903	2	2	BALL, steel, 7/32" diam.
6	71178407	1	1	SEAL, front diaphragm
7	71178408	2	2	GASKET, diaphragm (thin)
8	70650675	2	2	GASKET, diaphragm (thick)
9	73108944	1	1	DIAPHRAGM, sealing, front
10	70653933	1	1	SHAFT, drive
11	70673454	1	1	KEY, pump gear (short)
11A	70691549	1	1	KEY, pump gear (long)
12	70650189	3	-	GEAR, pump
	70669351	-	3	GEAR, pump
13	70653936	2	2	RING, snap, pump gear
14	70653931	1	-	GEAR ASSY., idler (Includes shaft)
	70669352	-	1	GEAR ASSY., idler (Includes shaft)

(Continued)

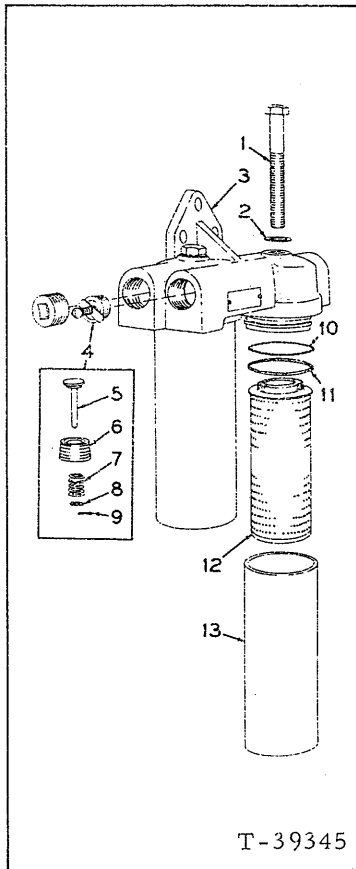
(Revised August 1979)

STEERING PUMP PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
15	70669345	1 1	BODY, front
16	70933855	- 2	O-RING
17	{ 70653934	1 -	BODY, center (Includes bushings)
	{ 70669350	- 1	BODY, center (Includes bushings)
18	70690291	1 1	SEAL, rear diaphragm
19	70827650	1 1	DIAPHRAGM, sealing, rear
20	74905870	4 4	PIN, dowel
21	70681695	1 1	BODY, rear
22	{ 70653930	1 -	PLATE, rear
	{ 70669348	- 1	PLATE, rear (single-port)(Original Pump)
	{ 70699889	- 1	PLATE, rear (dual-port)(Service replacement Pump)
23	70930288	4 4	CAPSCREW, 5/16"NC x 4-1/2"
24	70928309	2 2	CAPSCREW, 5/16"NC x 5"
25	70924227	2 2	SCREW, 12 pt-hd., 5/16"NC x 5"

FILTER ASSEMBLY 70633797

USAGE: See page 195



T-39345

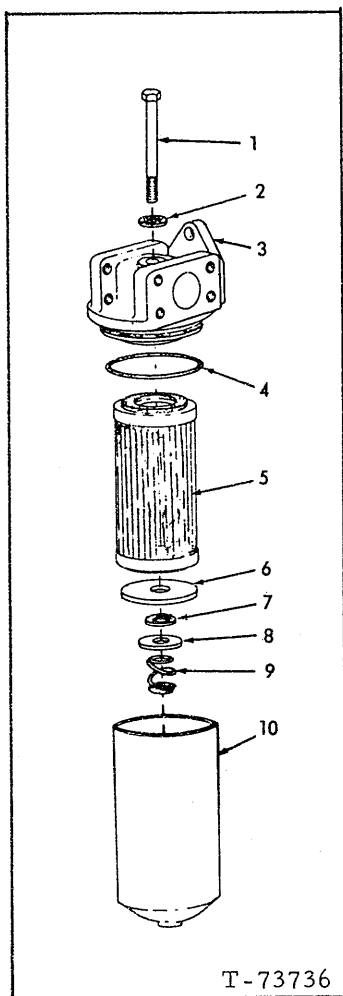
ITEM	PART NO.	QTY.	DESCRIPTION
1	70638796	2	CAPSCREW, tank retaining (5/8"NF x 5")
2	70631869	2	WASHER, tank retaining capscREW
3	70633310	1	HEAD
	70901666	2	PLUG, pipe, ctsk-hd., 1"NPT
4	70633995	2	VALVE ASSY., by-pass (Consists of items 5 thru 9)
5	-----	2	VALVE, by-pass (Order item 4)
6	-----	2	HOUSING, by-pass valve (Order item 4)
7	{ 70631870	2	SPRING, valve (1-1/4" long)(Early units)
	{ 70661268	2	SPRING, valve (1-7/16" long)(Late units)
8	70632060	2	WASHER, by-pass valve spring
9	{ 70632061	2	RING, snap, by-pass valve (Early units)
	{ 70900970	2	PIN, cotter, 1/16" x 1/2" (Late units)
10	70632062	2	RING, back-up, filter head o-ring
11	70632063	2	O-RING, filter head
12	70631828	2	ELEMENT KIT (Includes items 2, 10 and 11)
13	70631872	2	TANK

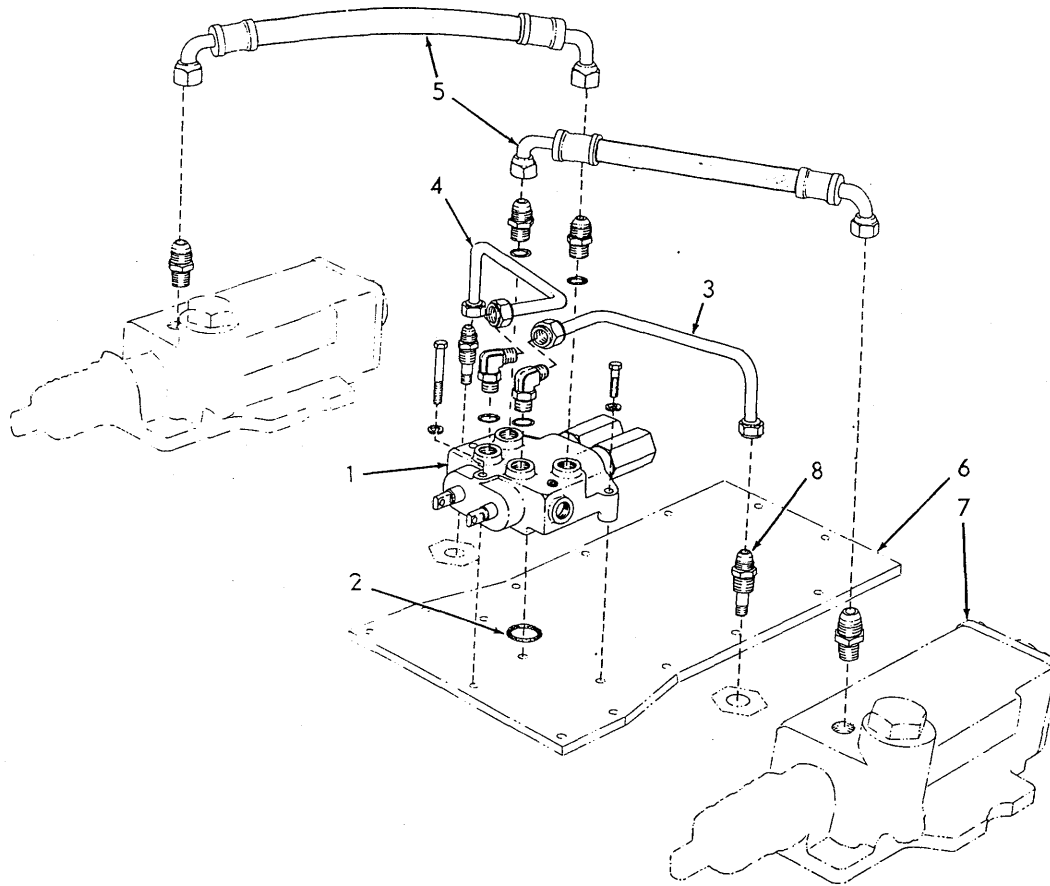
(Revised August 1979)

FILTER ASSEMBLY 70651113

USAGE: See page 195

ITEM	PART NO.	QTY.	DESCRIPTION
1	70918553	1	CAPSCREW, 7/16" x 4-1/2"
2	70651533	1	WASHER, head capscREW
3	70651529	1	HEAD
4	70923834	1	O-RING, tank sealing
5	70651532	1	ELEMENT
6	70656574	1	PLATE, bottom (large)
7	70641029	1	WASHER, sealing
8	70656573	1	WASHER, bottom (small)
9	70656572	1	SPRING, element retaining
10	70651531	1	TANK





T-30894

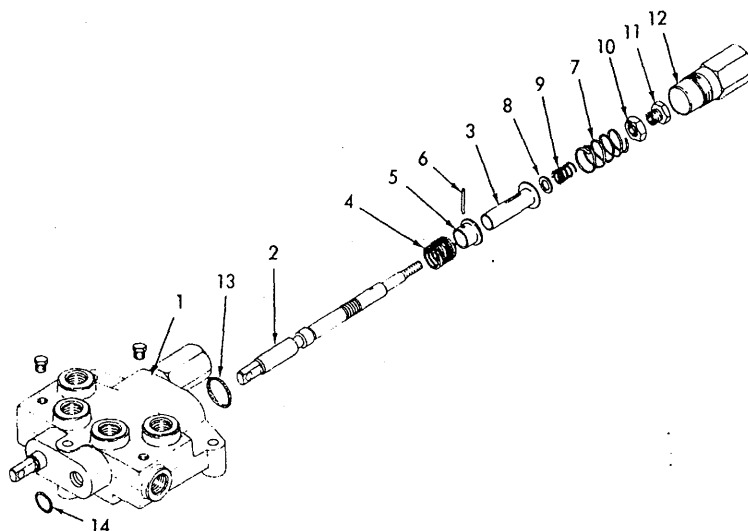
STEERING CONTROL VALVE AND LINES

ITEM	PART NO.	QTY.	DESCRIPTION	
1	-----	1	VALVE ASSY., control ("Cessna". See page 203) (Tractors prior to unit #17610)(Order VALVE ASSY. 70695688)	
	-----	1	VALVE ASSY., control ("Cessna". See page 202) (Tractors unit #17610 thru #19707)	
	70695688	1	VALVE ASSY., control ("Cessna". See page 203A) (Tractor unit #19708 and up)	
	70928406	1	CAPSCREW, 3/8"NF x 3-1/2"	
	70925632	2	CAPSCREW, 3/8"NF x 1-3/4"	
	70910287	3	LOCKWASHER, 3/8"	
2	70923947	1	O-RING, valve to compartment cover	
3	-----	1	HOSE (Order 1 each TUBE ASSY. 70689359 70689360 and 2 ELBOW 70921402)	Tractors prior to unit #19283
	70921409	1	CONNECTOR, flare type, 1/2"tube, 3/4"NF male end (Includes O-RING)	
	70921349	1	O-RING, connector	
	70689359	1	TUBE ASSY., clutch control left (Includes nuts)	Tractors Unit #19283 and up
	70921402	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" straight thread (Includes washer nut and O-RING)	
	70921349	1	O-RING, elbow	

(Continued)

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STEERING CONTROL VALVE AND LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
4	-----	1	HOSE (Order 1 each TUBE 70689359	} Tractors prior to unit #19283
	70921409	1	70689360, and 2 ELBOW 70921402	
	70921349	1	CONNECTOR, flare type, 1/2" tube 3/4" NF male end (Includes O-RING)	
	70689360	1	O-RING, connector	} Tractors unit #19283 and up
	70921402	1	TUBE ASSY., clutch control, right (Includes nuts)	
	70921349	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" straight thrd. (Includes washer, nut and O-RING)	
	70921349	1	O-RING, elbow	
5	70644608	2	HOSE, brake control (See HOSE PARTS)	
	70919615	2	CONNECTOR, flare type, 3/4" tube, 1/2" NPT male	
	70922935	2	CONNECTOR, flare type, 3/4" tube, 3/4" NF male end (Includes O-RING)	
	70921349	1	O-RING, connector	
6	-----	-	COVER, bevel gear compartment (See MAIN HOUSING)	
7	-----	-	VALVE ASSY. (See BRAKES)	
8	70669565	2	UNION, bulkhead	



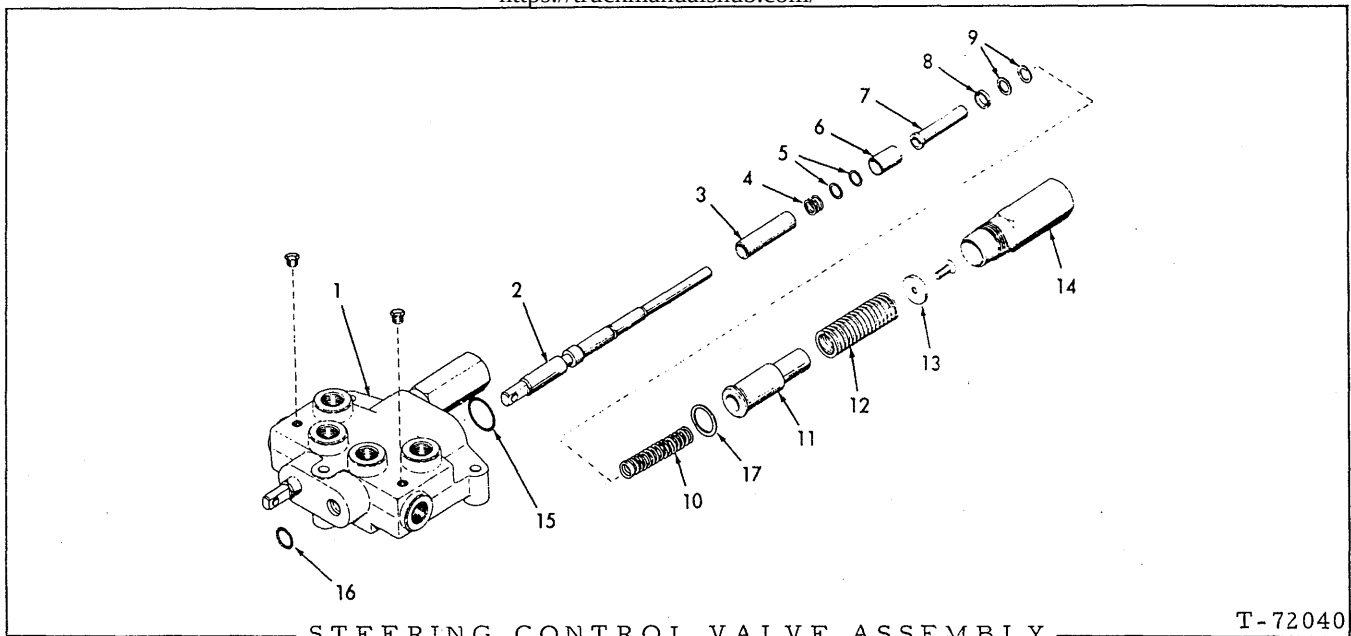
STEERING CONTROL VALVE ASSEMBLY 70677645

T-75919

USAGE: Tractor serial No. 10S17610 through 10S19707

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	BODY (Not serviced separately)
	70919134	2	PLUG, pipe, hex-hd., 1/8"NPT
2	-----	2	PLUNGER (Not serviced separately)
3	70677636	2	SLEEVE
4	70677643	2	SPRING
5	70677637	2	BUSHING
6	70916168	2	PIN, spring, 1/8" x 3/4"
7	70684654	2	SPRING
8	70677641	2	WASHER
9	70677642	2	SPRING
10	70677639	2	NUT
11	70677638	2	RETAINER
12	70677634	2	CAP
13	70924416	2	O-RING (large)
14	70923645	2	O-RING (small)

(Revised September 1976)

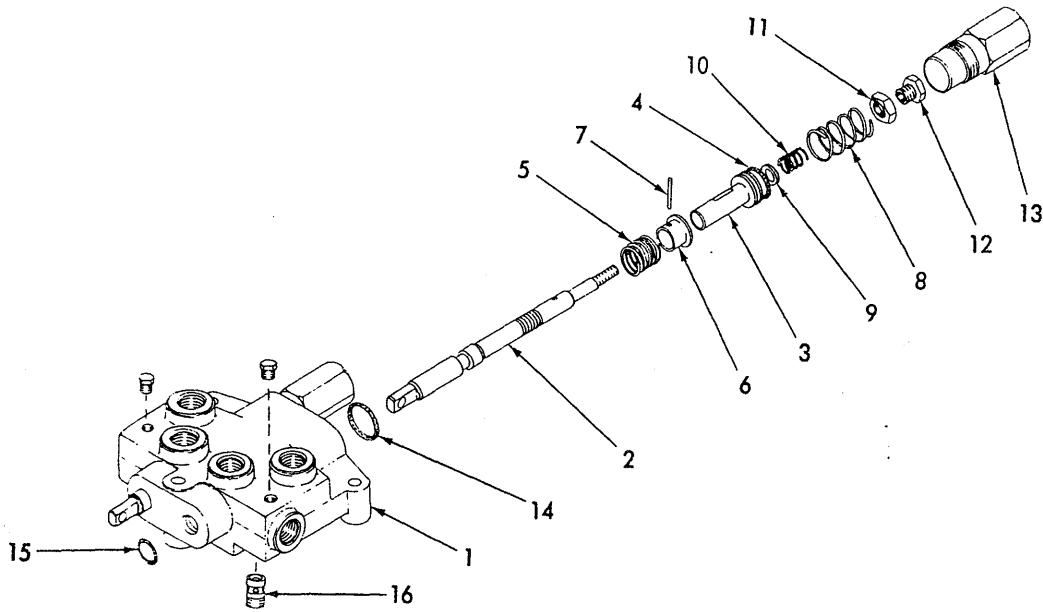


STEERING CONTROL VALVE ASSEMBLY

T-72040

USAGE: Tractors prior to serial No. 17610 (See page 200)

ITEM	PART NO.	QTY.	DESCRIPTION
-	70651432	1	VALVE ASSY. (Includes items 1 thru 17)
1	-----	1	BODY (Not serviced separately)
	70919134	2	PLUG, pipe, hex-hd., 1/8"NPT
2	-----	2	PLUNGER (Not serviced separately)
3	70651564	2	PISTON, pressure regulating
4	70651569	2	SPRING, pressure regulating (short)
5	70651576	-	SHIM, pressure adjustment (.015" thick)
	70651577	-	SHIM, pressure adjustment (.005" thick)
6	70651571	2	SLEEVE, valve plunger (outer)
7	70651572	2	SLEEVE, valve plunger (inner)
8	70651573	2	WASHER, valve plunger
	70651574	-	SHIM, pressure adjustment (.015" thick)
9	70651575	-	SHIM, pressure adjustment (.005" thick)
10	70661676	2	SPRING, pressure regulating (long)
11	70651565	2	SLEEVE, plunger return spring
12	70651570	2	SPRING, plunger return
13	70651567	2	WASHER, end, valve plunger
	70924989	2	SCREW, machine, flat-hd., 1/4"NF x 7/8"
14	70651566	2	CAP, valve plunger
15	70924416	2	O-RING, valve body (large)
16	70923645	2	O-RING, valve body (small)
17	70663123	2	SHIM, plunger clearance (Use as required)



STEERING CONTROL VALVE

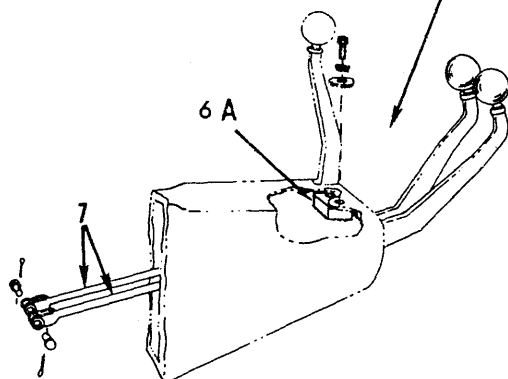
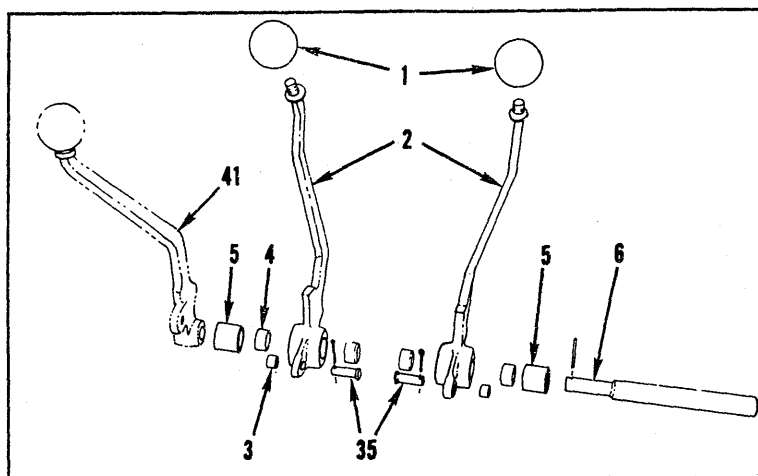
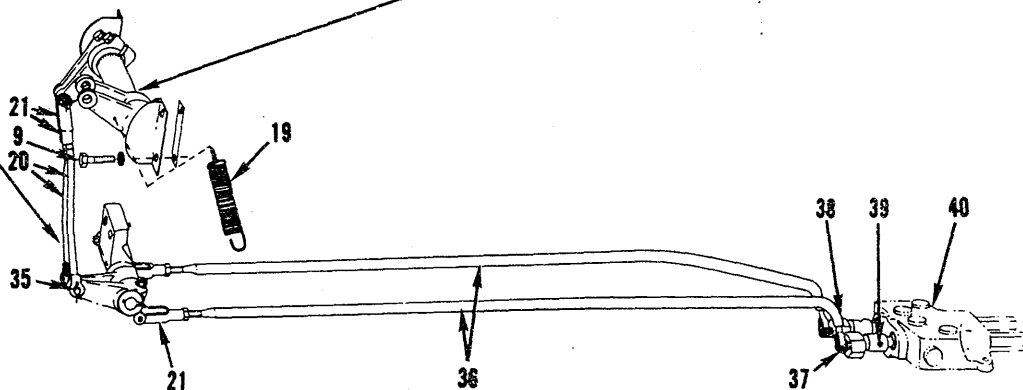
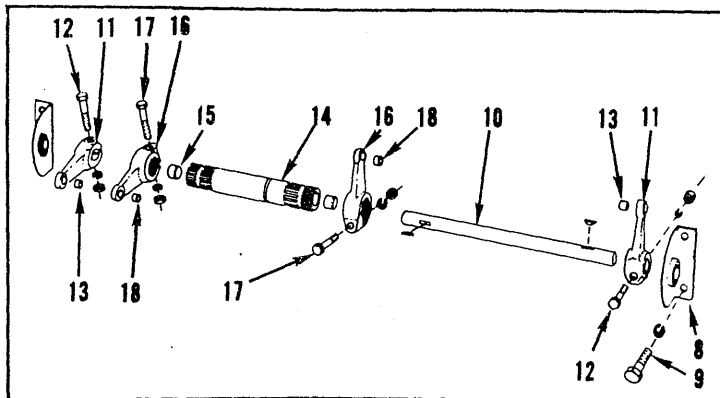
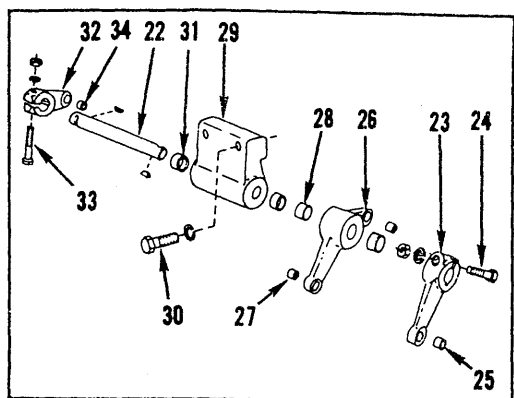
T-75919

USAGE: See page 200. Tractor serial No. 10S19708 and up

* Original equipment
** Service replacement

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
-	70695688	1 -	VALVE ASSY. (Includes items 1 thru 3 and 5 thru 16)
-	73107592	- 1	VALVE ASSY. (Includes items 1 thru 16)
1	-----	1 1	BODY (Not serviced separately)
	70919134	2 2	PLUG, pipe, hex-hd., 1/8"NPT
2	-----	2 2	PLUNGER (Not serviced separately)
3	70677636	2 -	SLEEVE
	73108259	- 2	SLEEVE
4	70923562	- 2	O-RING
5	70667643	2 2	SPRING
6	70667637	2 2	BUSHING
7	70916168	2 2	PIN, spring, 1/8" x 3/4"
8	70684654	2 -	SPRING
	73108258	- 2	SPRING
9	70677641	2 2	WASHER
10	70677642	2 2	SPRING
11	70677639	2 2	NUT
12	70677638	2 2	RETAINER
13	70677634	2 2	CAP
14	70924416	2 2	O-RING
15	70923645	2 -	O-RING
	73108260	- 2	O-RING
16	70695996	1 1	CHECK ASSY., left (Serviced only as a unit)

(Revised September 1976)



STEERING LEVERS AND LINKAGE

T-75093

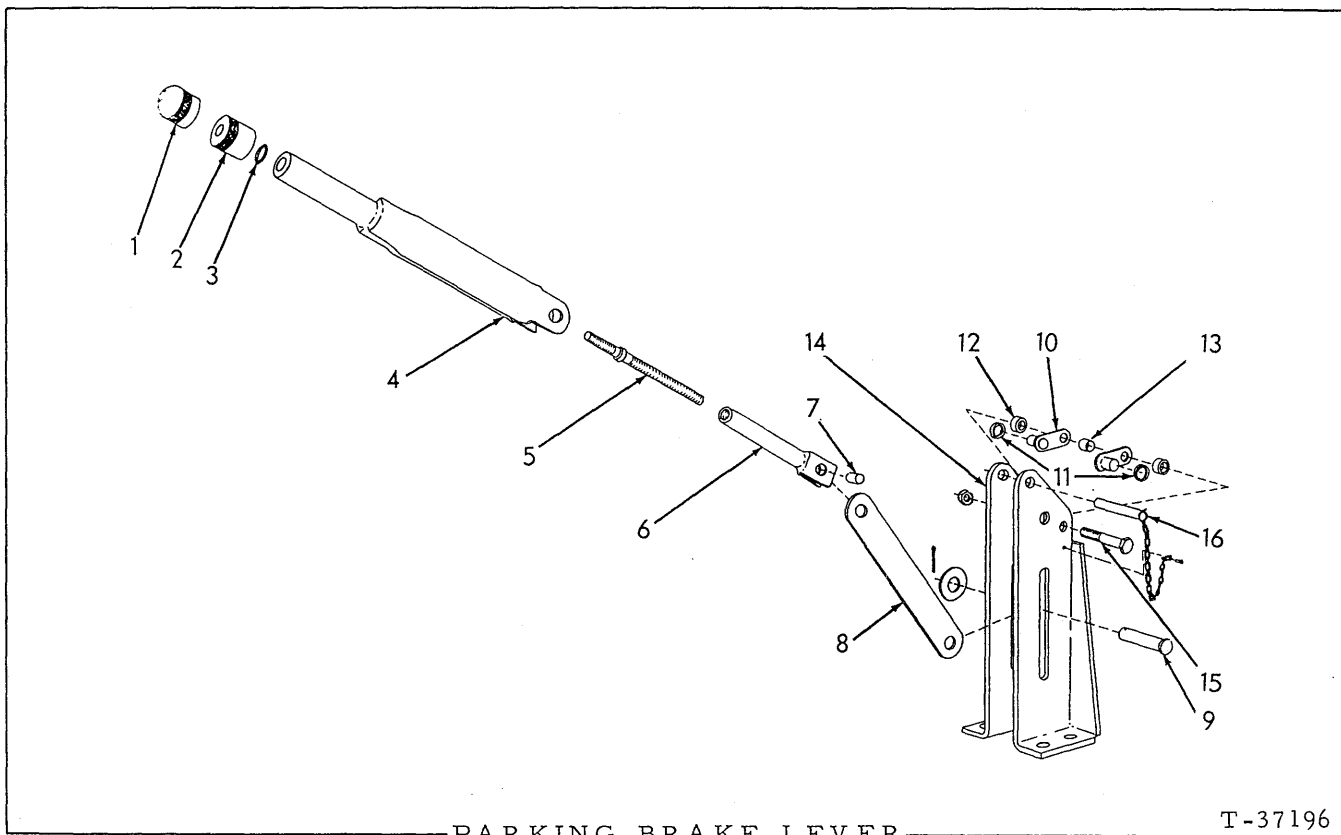
<https://truckmanualshub.com/>
STEERING LEVERS AND LINKAGE

ITEM	PART NO.	QTY.	DESCRIPTION
1	70090020	2	KNOB, steering lever
2	70630847	1	LEVER ASSEMBLY, steering, left (Includes items 3 and 4)
	70630848	1	LEVER ASSEMBLY, steering, right (Includes items 3 and 4)
3	70624584	2	BUSHING, steering lever (small)
4	70630795	4	BUSHING, steering lever (large)
5	70075053	2	SPACER, steering levers
6	70666261	1	SHAFT, steering levers
	70915797	1	PIN, spring, 3/16" x 1-1/4"
6A	70662487	1	BLOCK, lever stop
	70922763	2	CAPSCREW, 3/8"NC x 1"
	70910287	2	LOCKWASHER, 3/8"
	70911377	2	WASHER, plain
7	70666259	2	ROD, control, upper
8	70654656	2	BEARING ASSEMBLY, upper cross shaft (Includes bushing)
9	70927211	4	CAPSCREW, 3/8"NF x 3/4"
	70910287	4	LOCKWASHER, 3/8"
10	70629717	1	SHAFT, cross, upper
	70905123	2	KEY, #9 woodruff, 3/16" x 3/4"
11	70630837	2	LEVER ASSEMBLY, upper cross shaft (Includes item 13)
12	70920995	2	CAPSCREW, 3/8"NC x 2"
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
13	70624584	2	BUSHING, upper cross shaft lever
14	70648956	1	TUBE ASSEMBLY, torque, upper cross shaft (Includes item 15)
15	70630795	2	BUSHING, torque tube
16	70630841	2	LEVER ASSEMBLY, torque tube (Includes item 18)
17	70920996	2	CAPSCREW, 3/8"NC x 2-1/4"
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
18	70624584	2	BUSHING, torque tube lever
19	70043881	2	SPRING, cross shaft lever
20	70666258	2	ROD, control, vertical
	70911041	2	NUT, 3/8"NF
21	70628736	4	YOKE, control rod
22	70629454	1	SHAFT, cross, lower
	70905123	2	KEY, #9 woodruff, 3/16" x 3/4"
23	70630837	1	LEVER ASSEMBLY, lower cross shaft, left (Includes item 25)
24	70920995	1	CAPSCREW, 3/8"NC x 2"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
25	70624584	1	BUSHING, lower cross shaft lever

(Continued)

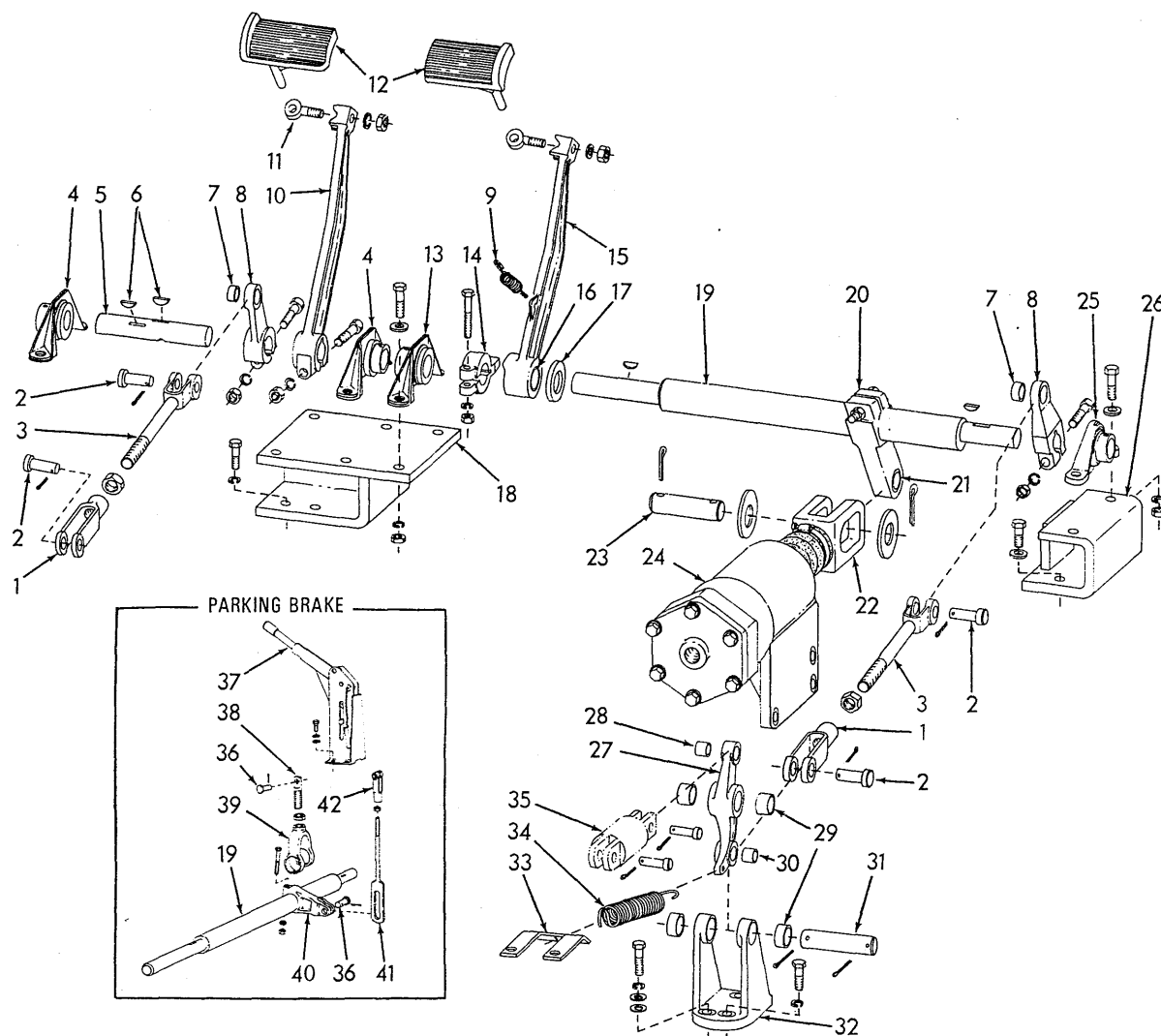
<https://truckmanualshub.com/>
STEERING LEVERS AND LINKAGE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	70630852	1	BELLCRANK ASSEMBLY, lower cross shaft (Includes item 27 and 28)
27	70624584	2	BUSHING, lower cross shaft bellcrank (small)
28	70630795	2	BUSHING, lower cross shaft bellcrank (large)
29	70630850	1	BRACKET ASSEMBLY, lower cross shaft (Includes item 31)
30	70922726	2	CAPSCREW, 1/2"NF x 1-1/2"
	70912441	2	LOCKWASHER, 1/2"
31	70630795	2	BUSHING, lower cross shaft bracket
32	70630836	1	LEVER ASSEMBLY, lower cross shaft, right (Includes item 34)
33	70920995	1	CAPSCREW, 3/8"NC x 2"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
34	70624584	1	BUSHING, lower cross shaft lever
35	70078810	10	PIN, control linkage yokes
	70900801	10	PIN, cotter, 3/32" x 3/4"
	70653975	1	ROD, control, lower left
36	70653976	1	ROD, control, lower right
	70911041	2	NUT, 3/8"NF
37	70627451	2	PIN, lower control rod
	70900801	2	PIN, cotter, 3/32" x 3/4"
38	70656151	2	OVER-TRAVEL ASSEMBLY (Serviced only as a unit)
39	70630833	2	PIN, retaining, over-travel
	70900801	2	PIN, cotter, 3/32" x 3/4"
40	-----	1	VALVE, control (See STEERING CONTROL VALVE AND LINES)
41	-----	1	LEVER, throttle (See THROTTLE CONTROL)



USAGE: For Tractors without Automatic Safety Brakes. See page 209.

ITEM	PART NO.	QTY.	DESCRIPTION
-	70631981	1	LEVER ASSY., parking brake (Includes items 1 thru 16)
1	-----	1	CAP, adjusting stud
2	-----	1	NUT, cap locking
3	70923548	1	O-RING, adjusting stud knob
4	70637803	1	LEVER, operating
5	70637818	1	STUD, lever adjusting
6	70637804	1	TUBE, adjusting stud
7	70637819	1	PIN, connecting link
8	70637805	1	LINK, connecting
9	70637811	1	PIN, clevis
	70910244	1	WASHER, plain
	70900806	1	PIN, cotter, 1/8" x 1"
10	70637808	2	BRACKET, pivot
11	70637806	2	SPACER, pivot bracket (3/4" O.D.)
12	70637809	2	SPACER, pivot bracket (5/8" O.D.)
13	70637810	1	SPACER, pivot bracket (1/2" O.D.)
14	-----	1	BRACKET, supporting (Not serviced separately)
15	70927358	1	CAPSCREW, 3/8"NF x 2-1/4"
	70919219	1	NUT, elastic stop, thin, 3/8"NF
16	70637820	1	PIN, lever locking (Includes chain)
	70648406	1	PIN, drive
17	70683852	1	KNOB KIT (Service replacement. Includes knob, spring pin, spring washer and item 3)(Serviced only as a unit)



BRAKE CONTROL

T-77762

* Tractors prior to serial No. 10S19110 if not equipped with Automatic Safety Brakes.

** Tractors serial No. 10S19110 and up; also Tractors prior to serial No. 10S19110 if equipped with Automatic Safety Brakes.

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70628535	2 2	YOKE, pedal shaft lever rod
2	70623139	4 4	PIN, yoke, pedal shaft lever rod
3	70628536	2 2	ROD, pedal shaft lever
	70910847	2 2	NUT, jam, 3/4" NF
4	70650026	2 2	BEARING
	70924864	4 4	CAPSCREW, 1/2" NC x 2-1/4"
	70677008	4 4	WASHER, plain
	70912441	4 4	LOCKWASHER, 1/2"
	70911028	4 4	NUT, 1/2" NC

(Continued)

BRAKE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
5	70655643	1 1	SHAFT, left
6	70631883	5 5	KEY, pedal shafts
7	70050308	2 2	BUSHING
8	70655478	2 -	LEVER ASSY., pedal shafts
	70669833	- 2	LEVER ASSY., pedal shafts
	70927233	2 2	CAPSCREW, 1/2"NF x 2-3/4"
	70912441	2 2	LOCKWASHER, 1/2"
	70911043	2 2	NUT, 1/2"NF
9	73111826	- 1	SPRING, pedal retracting
10	70655473	1 1	LEVER, pedal, left
	70927233	1 1	CAPSCREW, 1/2"NF x 2-3/4"
	70912441	1 1	LOCKWASHER, 1/2"
	70911043	1 1	NUT, 1/2"NF
11	70050433	2 2	BOLT, eye, pedal lever pad
	70912942	2 2	LOCKWASHER, 5/8"
	70911044	2 2	NUT, 5/8"NF
12	70623151	2 2	PAD, pedal lever
13	70650026	1 -	BEARING, right shaft, left side
	70655958	- 1	BEARING, right shaft, left side
	70924864	1 1	CAPSCREW, 1/2"NC x 2-1/4"
	70677008	1 1	WASHER, plain
	70921441	1 1	LOCKWASHER, 1/2"
	70911028	1 1	NUT, 1/2"NC
14	70664077	- 1	RING
	70922510	- 1	CAPSCREW, 1/2"NC x 2-3/4"
	70912441	- 1	LOCKWASHER, 1/2"
	70911028	- 1	NUT, 1/2"NC
15	70655473	1 -	LEVER, pedal, right
	70927233	1 -	CAPSCREW, 1/2"NF x 2-3/4"
	70912441	1 -	LOCKWASHER, 1/2"
	70911043	1 -	NUT, 1/2"NF
	70691243	- 1	LEVER ASSY., pedal, right (Includes item 16)(For first replacement on tractors prior to unit #19605, also order 1 SHAFT 70691274)
16	70664126	- 1	BUSHING (Tractors prior to unit #19605)
	70053243	- 2	SEAL
	70053244	- 2	BEARING
17	70668965	- 1	SPACER
18	70655711	1 1	BRACKET, left
	70920583	4 4	CAPSCREW, 1/2"NC x 1-1/2"
	70912441	4 4	LOCKWASHER, 1/2"
19	70655642	1 -	SHAFT, right
	70691274	- 1	SHAFT, right (For first replacement on tractors prior to unit #19605, also order 1-LEVER ASSY., 70691243)
20	70669143	- 1	LEVER ASSY. (Includes item 21)
	70927528	- 1	CAPSCREW, 1/2"NF x 3-1/2"
	70912441	- 1	LOCKWASHER, 1/2"
	70911043	- 1	NUT, 1/2"NF

Includes item 7

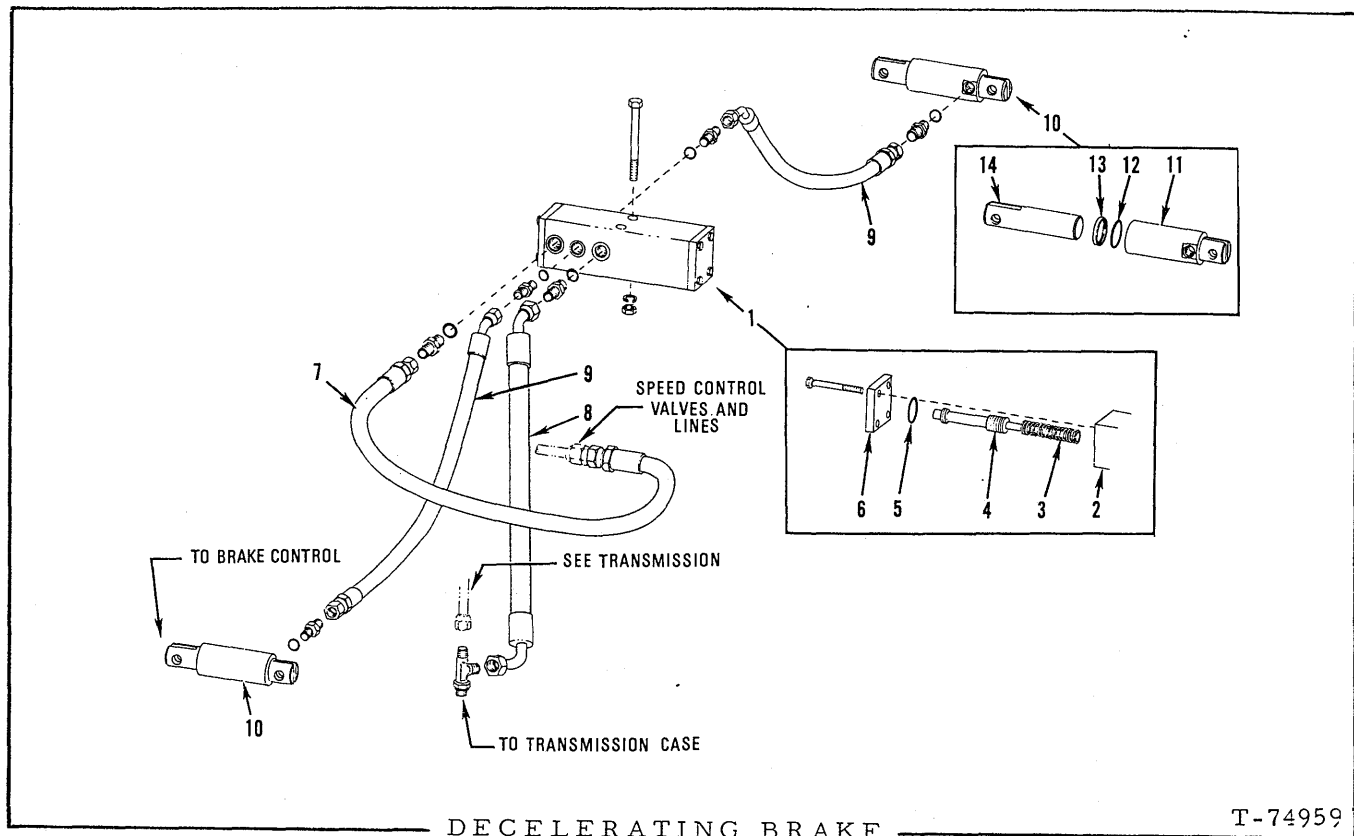
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BRAKE CONTROL (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
21	70669142	- 2	BUSHING
22	70669159	- 1	YOKE
23	70669156	- 1	PIN
	70912430	- 2	PIN, cotter, 5/32" x 2"
	70900824	- 2	WASHER, plain
24	-----	- 1	CYLINDER ASSY. (See page 218)
25	{ 70655958	1 -	BEARING, pedal shaft, right side
	{ 70685862	- 1	BEARING, pedal shaft, right side
	70927522	2 -	CAPSCREW, 1/2" NF x 1-3/4"
	70924864	- 2	CAPSCREW, 1/2" NC x 2-1/4"
	70677008	2 2	WASHER, plain
	70912441	2 2	LOCKWASHER, 1/2"
	70911043	2 -	NUT, 1/2" NF
	70911028	- 2	NUT, 1/2" NC
26	70655709	1 1	BRACKET, pedal shaft bearing, right
	70920585	2 2	CAPSCREW, 1/2" NC x 1-3/4"
	70677008	2 2	WASHER, plain
27	70643024	2 2	LEVER ASSY. (Includes items 27, 28 and 29)
28	70052669	2 2	BUSHING, upper
29	70631882	8 8	BUSHING
30	70623164	2 2	BUSHING, lower
31	70639459	2 2	PIN, rocker lever bracket
	70910320	4 4	PIN, cotter, 5/32" x 1-1/2"
32	70629252	2 2	BRACKET ASSY. (Includes item 28)
	70920583	4 4	CAPSCREW, 1/2" NC x 1-1/2"
	70920585	2 2	CAPSCREW, 1/2" NC x 1-3/4"
	70910244	4 4	WASHER, plain
	70912441	6 6	LOCKWASHER, 1/2"
33	70647907	2 2	CLIP, retracting spring
34	70658737	2 2	SPRING, retracting
35	-----	2 2	CYLINDER ASSY. (See DECELERATING BRAKE)
36	70052671	6 4	PIN
	70900806	6 4	PIN, cotter, 1/8" x 1"
37	-----	1 -	LEVER ASSY. (See page 207)
	70921175	4 -	CAPSCREW, 1/2" NC x 1"
	70912441	4 -	LOCKWASHER, 1/2"
	70910244	1 -	WASHER, plain
38	70638338	1 -	EYE, shaft bracing yoke
	70911051	1 -	NUT, jam, 1" NF

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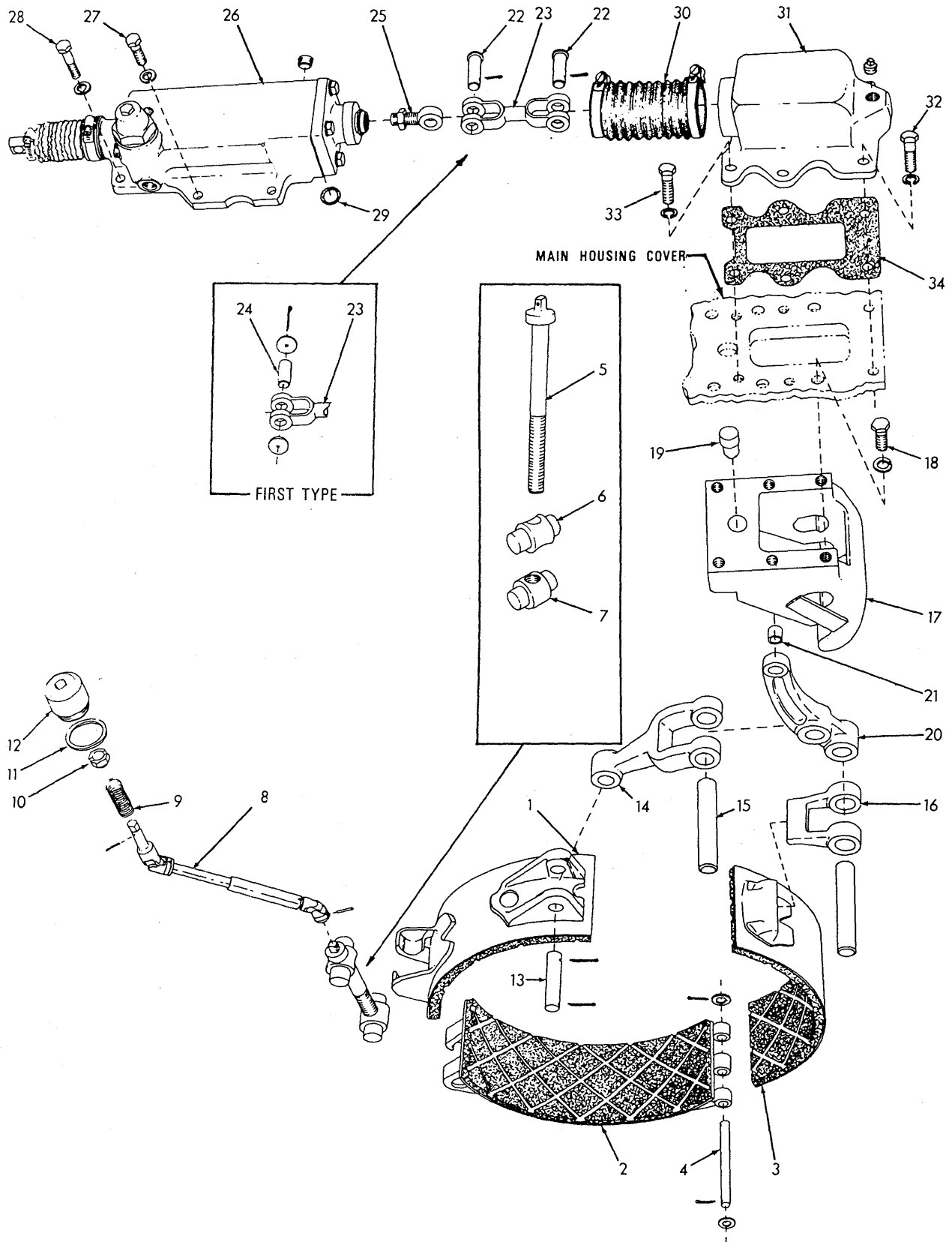
ITEM	PART NO.	QTY. * **	DESCRIPTION
39	70631881	1 -	YOKE, shaft bracing
40	70631974	1 -	LEVER, parking brake
	70927528	1 -	CAPSCREW, 1/2"NF x 3-1/2"
	70912441	1 -	LOCKWASHER, 1/2"
	70911043	1 -	NUT, 1/2"NF
41	70654860	1 -	ROD, connecting, parking brake lever
42	70068389	1 -	YOKE, parking brake rod
	70913177	1 -	NUT, jam, 1/2"NF



ITEM	PART NO.	QTY.	DESCRIPTION
1	70667662	1	VALVE ASSEMBLY sensing (Consists of items 2 thru 6)
	70922848	2	CAPSCREW, 3/8"NC x 3-1/4"
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
2	70667664	1	HOUSING, sensing valve
3	70085694	1	SPRING, sensing valve
4	70667665	1	SPOOL, sensing valve
5	70923664	2	O-RING, sensing valve cover
6	70667663	2	COVER, sensing valve
	70916272	8	CAPSCREW, 3/8"NC x 1-1/4"
7	70667453	1	HOSE ASSEMBLY, oil supply (See HOSE PARTS)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING 70921349)
8	70667454	1	HOSE ASSEMBLY, oil return (See HOSE PARTS)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING 70921349)
	70922792	1	TEE, adjustable, flare type, 1/2" tube side and end, 3/4"NF male end (Includes washer, nut and O-RING 70921349)
9	70646142	2	HOSE ASSEMBLY, valve to cylinder (See HOSE PARTS)
	70922522	4	CONNECTOR, flare type, 3/8" tube, 9/16"NF male end (Includes O-RING 70921885)
10	70667365	2	CYLINDER ASSEMBLY (Consists of items 11 thru 14)
11	-----	2	BARREL, cylinder (Not serviced separately)
12	70923649	2	O-O-RING, cylinder barrel
13	-----	2	O-SEAL wiper, cylinder piston (Order item 15)
14	-----	2	PISTON, cylinder (Not serviced separately)
15	70668339	2	SEAL KIT (Consists of items 12 and 13)
			OComponents of item 15

M E M O

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



T-70596

BRAKES

BRAKES

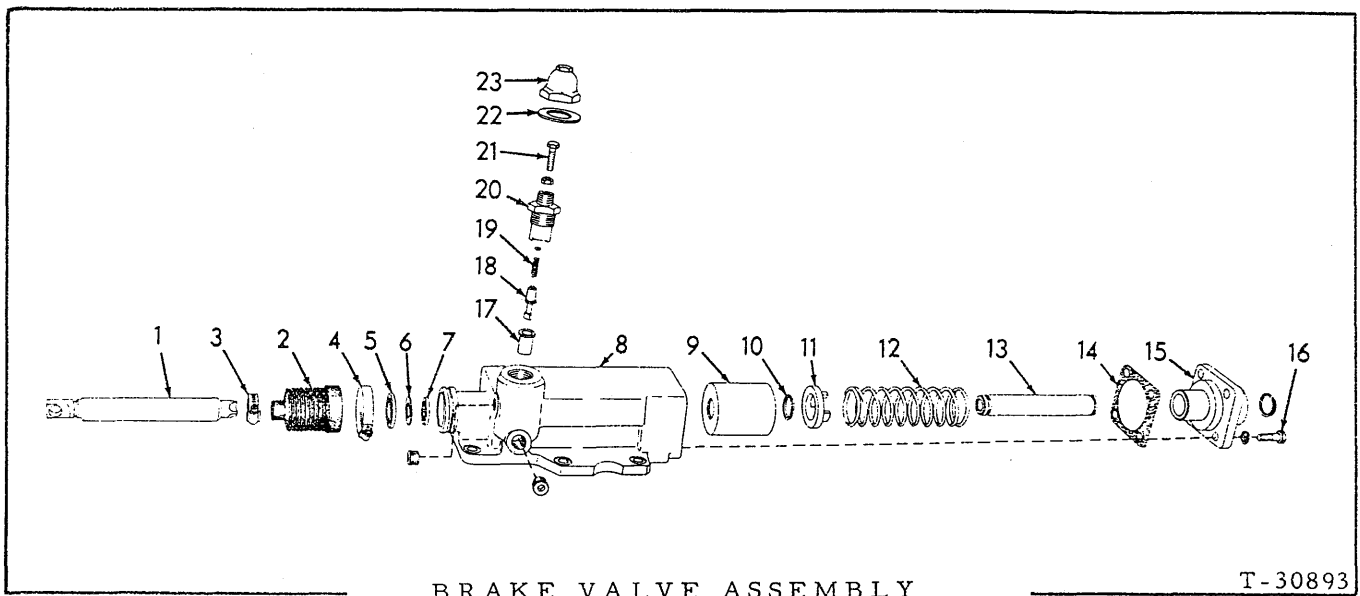
ITEM	PART NO.	QTY.	DESCRIPTION	
1	70637993	2	BAND ASSY., top section (Includes bonded linings)	} Refer to item 25
2	70638002	2	BAND ASSY., bottom section (Includes bonded lining)	
3	70637997	2	BAND ASSY., rear section (Includes bonded lining)	
4	70623130	2	PIN, band hinge	
	70912900	4	WASHER, plain	
	70900806	4	PIN, cotter, 1/8" x 1"	
5	70650276	2	SCREW, band adjusting	
6	70650275	2	PIN, adjusting screw, upper band	
7	70623153	2	PIN, adjusting screw, bottom band	
8	70650273	2	DRIVE ASSY., universal, band adjustment (Serviced only as a unit)	
	70921330	2	PIN, spring, 7/32" x 1-1/8" (lower)	
	70921469	2	PIN, spring, 7/32" x 1" (upper)	
9	70624193	2	SPRING, band adjustment	
10	70650274	2	SLEEVE, band adjustment	
11	70623144	2	GASKET, brake adjustment hole plug	
12	70653773	2	PLUG, brake adjustment hole	
13	70623132	2	PIN, top band	
	70900808	4	PIN, cotter, 1/8" x 1-1/2"	
14	70623133	2	YOKE, brake band, upper	
15	70623131	4	PIN, band yoke	
16	70623158	2	YOKE, brake band, lower	
17	70623182	2	BRACKET ASSY., band lever (Includes item 19)	
18	70927529	12	CAPSCREW, 5/8"NF x 1-3/4"	
	70912942	12	LOCKWASHER, 5/8"	
19	70643740	2	PIN, band lever bracket	
20	70623165	2	LEVER ASSY., band operating (Includes item 21)	
21	70623164	2	BUSHING, band operating lever	
22	70623139	4	PIN, connecting rod,	} 2 less used on tractors prior to unit #20113
	70910302	4	PIN, cotter, 5/32" x 1-1/4"	
23	70623140	2	ROD, connecting	
24	70637729	2	PIN, connecting rod, front	} Tractors prior to unit #20113
	70904003	2	PIN, cotter, 1/8" x 2-1/4"	
	70637730	4	WASHER, plain	
25	70638818	2	EYE, connecting	
	70910847	2	NUT, jam, 3/4"NF	

(Continued)

(Revised August 1979)

BRAKES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
26	70651467	2	VALVE ASSEMBLY, operating (See page 183 for parts)
	70908944	2	PLUG, pipe, hex-socket, 1/2"NPT
27	70927574	8	CAPSCREW, 1/2"NF x 1-3/8"
28	70921570	4	CAPSCREW, 1/2"NF x 2-1/2"
	70928460	12	WASHER, plain
29	70923575	2	O-RING, valve discharge port
30	70623138	2	BOOT, connecting
	70921914	4	CLAMP, hose, 2-5/16" x 3-1/4" diam.
	70623137	2	COVER, band linkage
31	70901653	2	PLUG, pipe, 3/8"NPT } Tractors prior to unit #19274
	70690566	2	COVER, band linkage (Tractors unit #19274 and up)
32	70927236	4	CAPSCREW, 1/2"NF x 2"
33	70927158	8	CAPSCREW, 1/2"NF x 1"
	70912441	12	LOCKWASHER, 1/2"
34	70623136	2	GASKET, band linkage cover
35	73117505	2	LINING KIT, brake (Each includes linings and instruction sheet, sufficient to service one (1) side only).

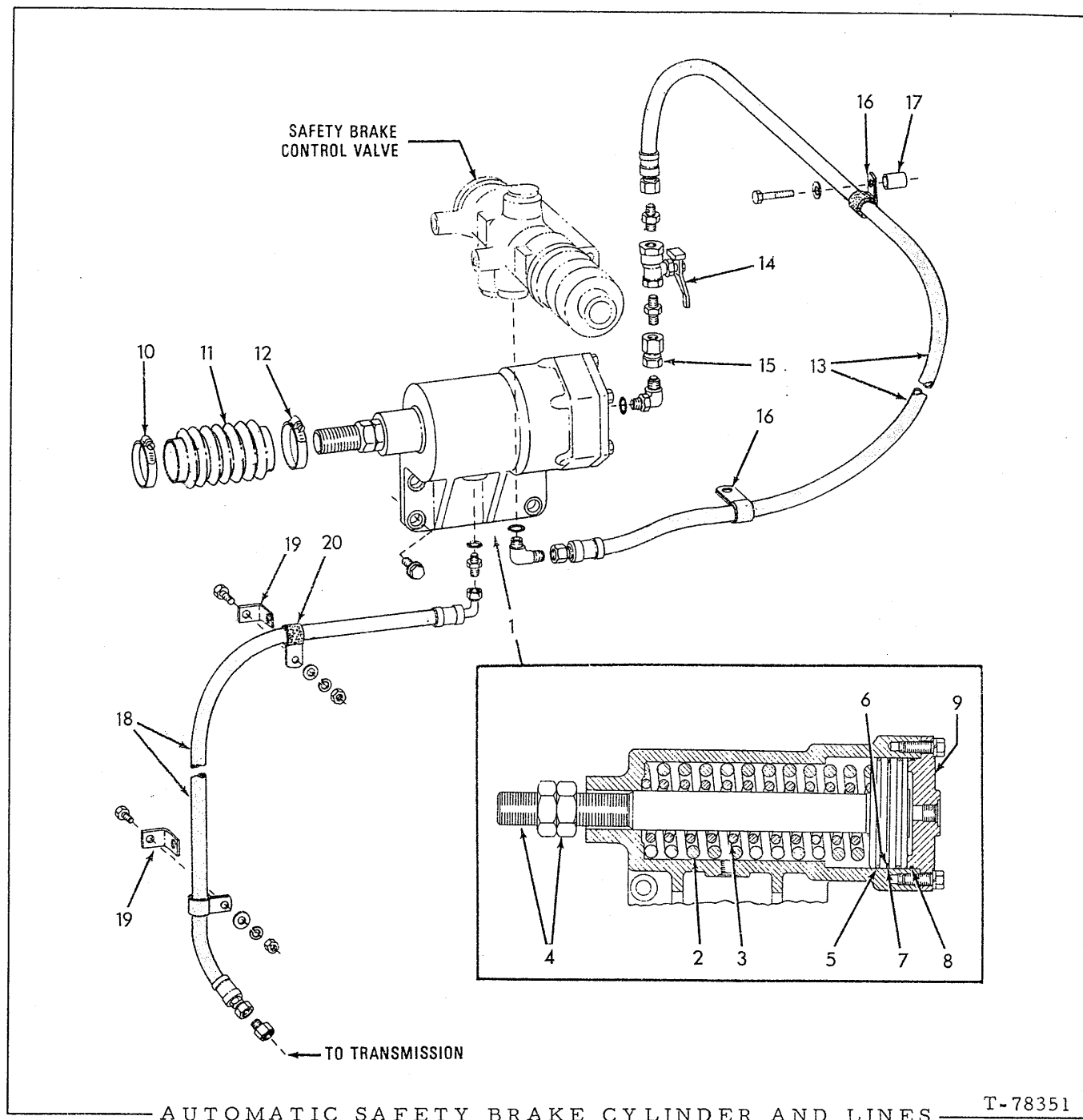


T-30893

BRAKE VALVE ASSEMBLY

USAGE: See page 215

ITEM	PART NO.	QTY.	DESCRIPTION
-	70651467	2	VALVE ASSY. (Includes items 1 thru 23' NOTE: All quantities are for one (1) Valve Assy. only
1	70651451	1	SPOOL, valve
2	70623195	1	BOOT, valve spool
3	70921912	1	CLAMP, hose, 1-1/16" to 2" diam.
4	70921913	1	CLAMP, hose, 1-13/16" to 2-3/4" diam.
5	70623197	1	SEAL, outer
6	70623489	1	WASHER, back-up, inner seal (vellumoid)
7	70623198	1	SEAL, inner
8	70623202	1	HOUSING
	70908944	2	PLUG, pipe, hex-socket-hd., 1/2"NPT
9	70651464	1	PISTON ASSY. (Includes fulcrum pin)
10	70623206	2	RING, snap, actuating rod
11	70623203	1	RETAINER, actuating rod spring
12	70623204	1	SPRING, actuating rod
13	70623207	1	ROD, actuating
14	70623196	1	GASKET, actuating rod retainer
15	70623205	1	RETAINER, actuating rod
16	70614478	4	CAPSCREW, 1/2"NF x 1-3/8"
	70904208	4	LOCKWASHER, 1/2"
17	70623211	1	SEAT, relief valve
18	70628019	1	VALVE, relief
19	70623210	1	SPRING, relief valve
	70911982	1	WASHER, plain
20	70638563	1	CAP, relief valve spring
21	70638561	1	CAPSCREW, pressure adjustment
	70911048	1	NUT, jam, 3/8"NF
22	70641148	1	GASKET, cap
23	70638562	1	CAP, pressure adjustment screw



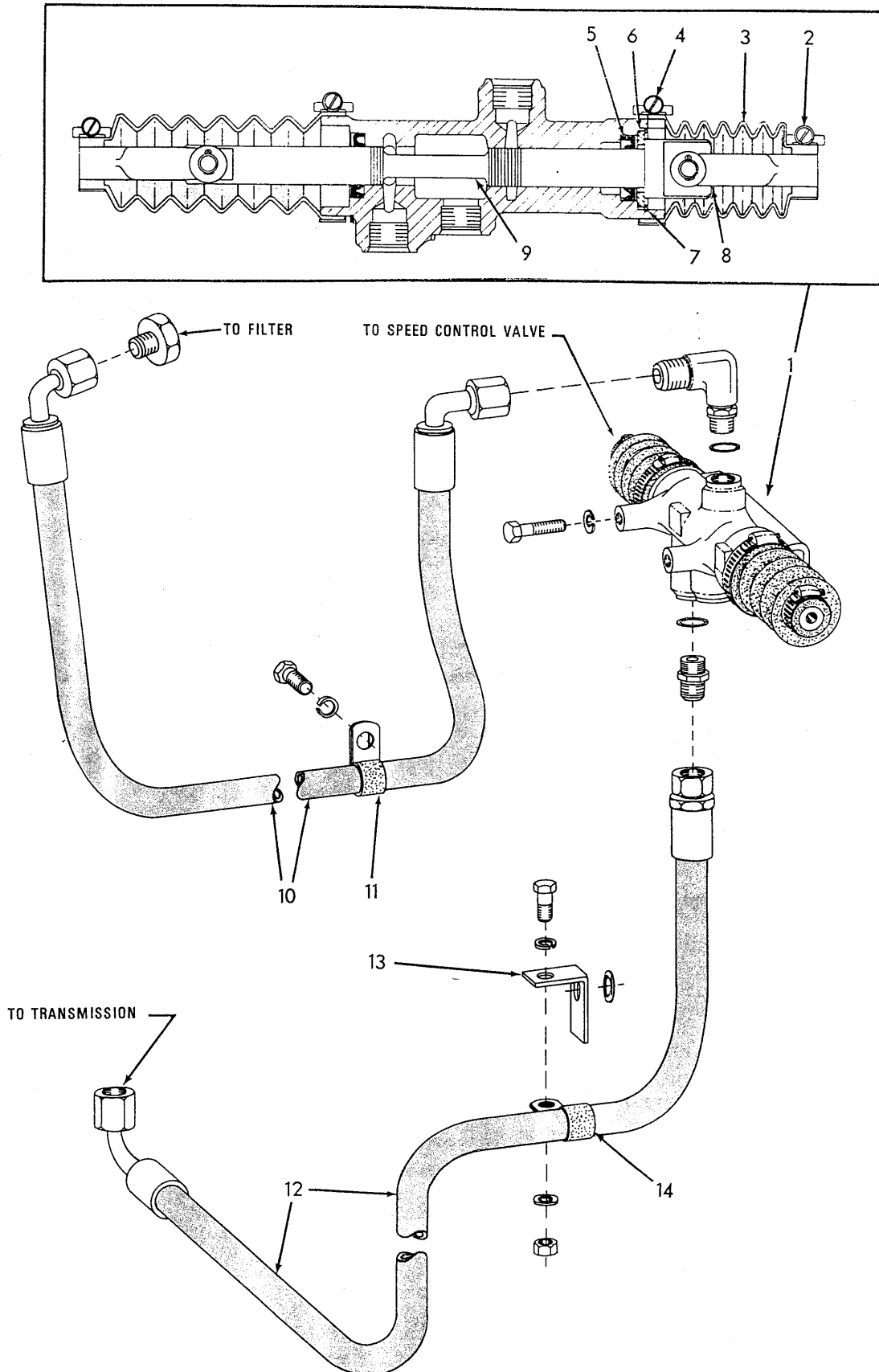
USAGE: Standard on tractors serial No. 10S19110 and up; also used on tractors prior to serial No. 10S19110 if equipped with Automatic Safety Brakes.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70669163	1	CYLINDER ASSY., safety brake (Includes items 2 thru 9)
	70633569	3	CAPSCREW
2	70669128	1	SPRING, outer
3	70669579	1	SPRING, inner

(Continued)

AUTOMATIC SAFETY BRAKE CYLINDER AND LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
4	70669139	1	PISTON ASSY.	
	70911207	2	NUT, 1-1/2" NF	
5	70669148	2	RING, guide	
6	70924128	1	O-RING	
7	70637444	1	RING	
8	70923590	1	O-RING	
9	70669145	1	COVER	
	70915987	6	CAPSCREW, 1/2" NC x 1-1/2"	
	70904208	6	LOCKWASHER, 1/2"	
10	70921913	1	CLAMP, hose, 1-13/16" to 2-3/4" diam.	
11	70623138	1	BOOT	
12	70921914	1	CLAMP, hose, 2-5/16" to 3-1/4" diam.	
13	70669206	1	HOSE (See HOSE PARTS)	
	70921402	2	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" NF male (Includes washer, nut and O-RING)	
	70921349	2	O-RING	
14	70690178	1	VALVE, ball	} Late Design
	70919128	1	CONNECTOR, flare type, 1/2" tube, 1/2" NPT male	
	70922778	1	NIPPLE, hex, 1/2" NPT	
15	70930283	1	ADAPTER, union	
16	70644713	2	CLIP, 7/8" diam., x 17/32" bolt hole	
	70920995	1	CAPSCREW, 3/8" NC x 2"	
	70677006	1	WASHER, plain	
17	70617952	1	BLOCK, clip spacing	
18	70669219	1	HOSE (See HOSE PARTS)	
	70922522	1	CONNECTOR, flare type, 3/8" tube, 3/4" NF male end (Includes O-RING)	
	70921349	1	O-RING	
	70926768	1	REDUCER, flare type, 5/8" tube, to 3/8" tube	
19	70662578	2	ANGLE	
	70058614	2	WASHER, plain	
20	70621304	2	CLIP, 3/4" diam. x 17/32" bolt hole	
	70922300	2	CAPSCREW, 3/8" NC x 7/8"	
	70910287	2	LOCKWASHER, 3/8"	
	70929156	2	WASHER, plain	
	70911026	2	NUT, 3/8" NC	



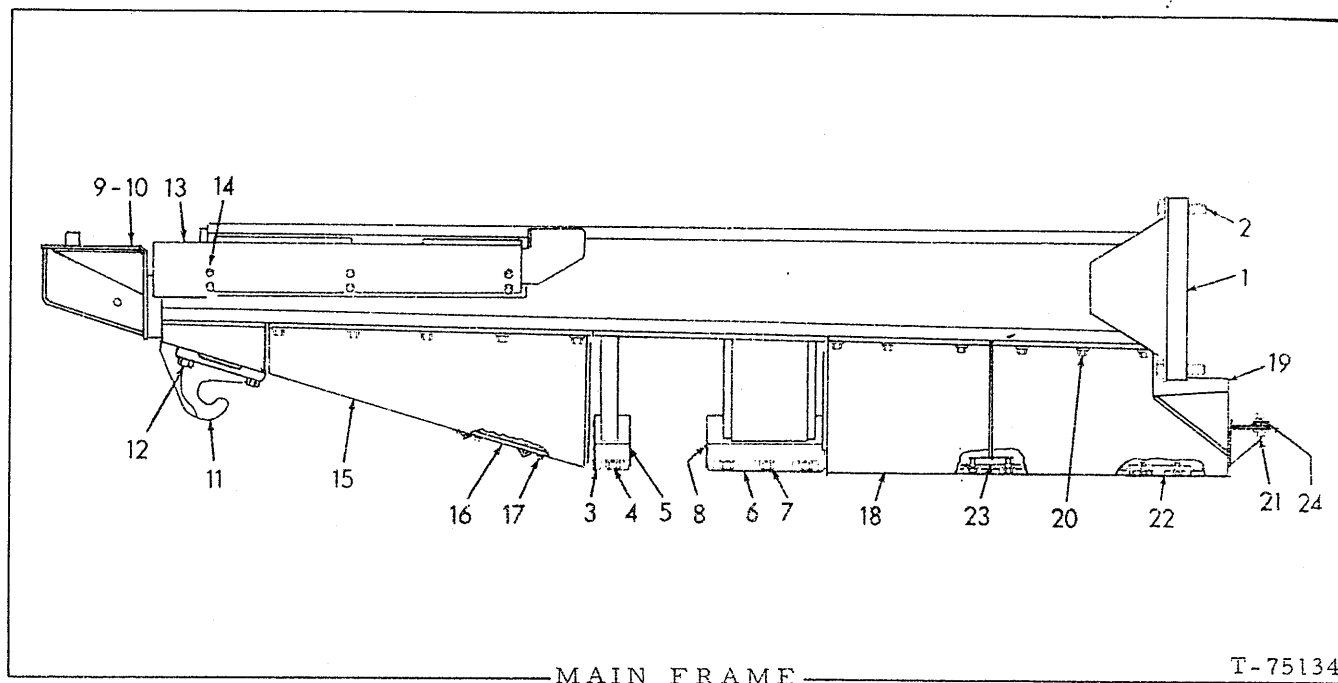
AUTOMATIC SAFETY BRAKE VALVE AND LINES

T-78352

AUTOMATIC SAFETY BRAKE VALVE AND LINES

USAGE: Standard on tractors serial No. 10S19110 and up; also used on tractors prior to serial No. 10S19110 if equipped with Special Automatic Safety Brakes.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70669200	1	VALVE ASSY., automatic safety brake (Includes items 2 thru 9)
	70921865	2	CAPSCREW, Nylok, 1/2"NC x 1"
	70912441	2	LOCKWASHER, 1/2"
2	70921911	2	CLAMP, hose
3	70670418	2	BOOT
4	70922198	2	CLAMP, hose
5	70669165	2	SEAL
6	70669202	1	WASHER
7	70927024	1	RING
8	70628736	2	YOKE
	70078810	2	PIN, yoke
	70918448	2	PIN, cotter, 3/32" x 1"
9	-----	1	SPOOL (Not serviced separately. Order item 1)
10	70669229	1	HOSE ASSY. (See HOSE PARTS)
	70926773	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" straight thd. male end (Includes O-RING)
	70921349	1	O-RING
	70926770	1	REDUCER, flare type, 1" tube to 1/2" tube
11	70622992	3	CLIP, hose
	70922300	2	CAPSCREW, 3/8"NC x 3/4"
	70910287	2	LOCKWASHER, 3/8"
12	70669207	1	HOSE ASSY. (See HOSE PARTS)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4" straight thd. male end (Includes O-RING)
	70921349	1	O-RING
13	70662578	1	ANGLE
	70058614	1	WASHER, plain
14	70644713	1	CLIP, hose
	70922300	1	CAPSCREW, 3/8"NC x 3/4"
	70910287	1	LOCKWASHER, 3/8"
	70929156	1	WASHER, plain
	70911026	1	NUT, 3/8"NC



ITEM	PART NO.	QTY.	DESCRIPTION
1	70660425	1	FRAME ASSY. (Includes items 3 thru 8)(Tractors prior to unit #17001
	70683255	1	FRAME ASSY. (Includes items 3 thru 8)(Tractors unit #17001 and up)
2	70928413	12	CAPSCREW, 1-1/4"NF x 4-1/2"
	70928653	12	WASHER, plain
3	70630038	1	CAP, beam pivot pin, front
4	70925460	2	CAPSCREW, 1"NF x 3-3/4"
	70914728	2	LOCKWASHER, 1"
5	70629937	2	SHIM (.007" thick. Use as required)
6	70947327	1	CAP, beam pivot pin, rear
7	70925460	6	CAPSCREW, 1"NF x 3-3/4"
	70914728	6	LOCKWASHER, 1"
8	70629938	2	SHIM (.007" thick. Use as required)
9	70660202	1	BUMPER, front
10	70927305	4	CAPSCREW, 1"NC x 3-3/4"
	70928370	8	WASHER, plain
	70911032	4	NUT, 1"NC
11	70040503	1	HOOK, front pull
12	70013006	4	CAPSCREW, 7/8"NF x 3-3/4"
	70070400	4	NUT, high, 7/8"NF
13	70661691	1	PLATE, closure, left
	70661692	1	PLATE, closure, right
14	70920574	12	CAPSCREW, 1/2"NC x 1-3/8"
	70677008	12	WASHER, plain

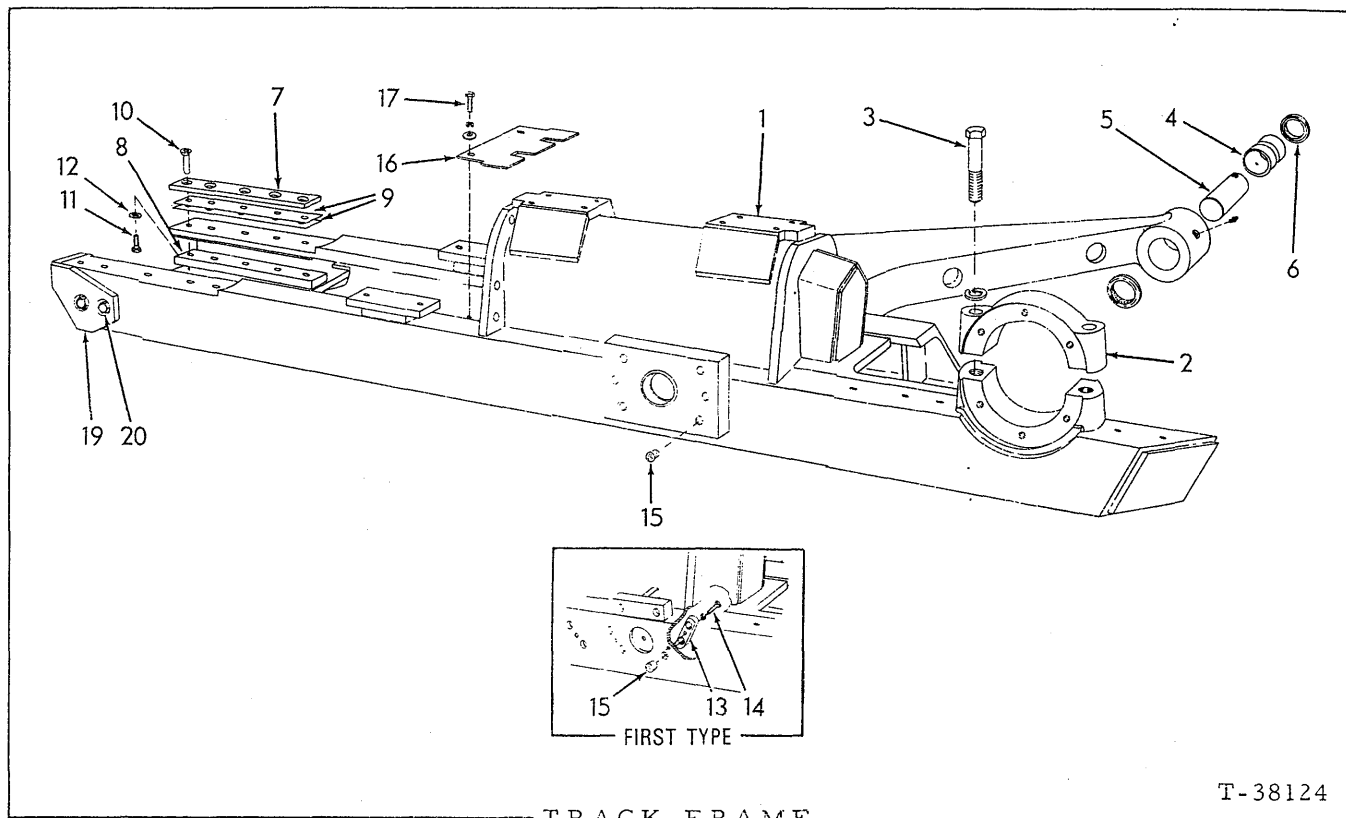
} Tractor unit #18567 and up (Special equipment on prior Tractors)

(Continued)

(Revised September 1976)

MAIN FRAME (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
15	{ 70630018	1	GUARD ASSY., crankcase (First type)	} Each includes items 16 and 17
	{ 70675531	1	GUARD ASSY., crankcase (Second type)	
	70922743	10	CAPSCREW, 3/4"NC x 2"	
	70677012	10	WASHER, plain	
16	70091634	1	PLATE, cover, oil and water drain holes (1 additional used with First type GUARD)	
17	70070469	4	CAPSCREW, 1/2"NF x 1-1/4"	
	70904208	4	LOCKWASHER, 1/2"	
18	70673018	1	GUARD, transmission, front section	
	70921403	6	CAPSCREW, 5/8"NC x 2"	
	70677010	6	WASHER, plain	
19	70666940	1	GUARD ASSY., transmission, rear section (Includes item 22)	
20	70921403	6	CAPSCREW, 5/8"NC x 2"	
	70677010	6	WASHER, plain	
21	70925483	2	CAPSCREW, 3/4"NC x 3-1/4"	
	70677012	4	WASHER, plain	
	70911030	2	NUT, 3/4"NC	
22	70642633	1	COVER, transmission oil drain	
	70035061	2	CAPSCREW, 1/2"NC x 1-1/4"	
	70904208	2	LOCKWASHER, 1/2"	
23	70630039	1	PLATE, guard attaching	
	70927353	4	CAPSCREW, 1/2"NF x 1-1/4"	
	70677008	4	WASHER, plain	
24	{ 70631959	2	SHIM, rear guard (1/16" thick. Use as required)	
	{ 70631960	2	SHIM, rear guard (1/8" thick. Use as required)	



TRACK FRAME

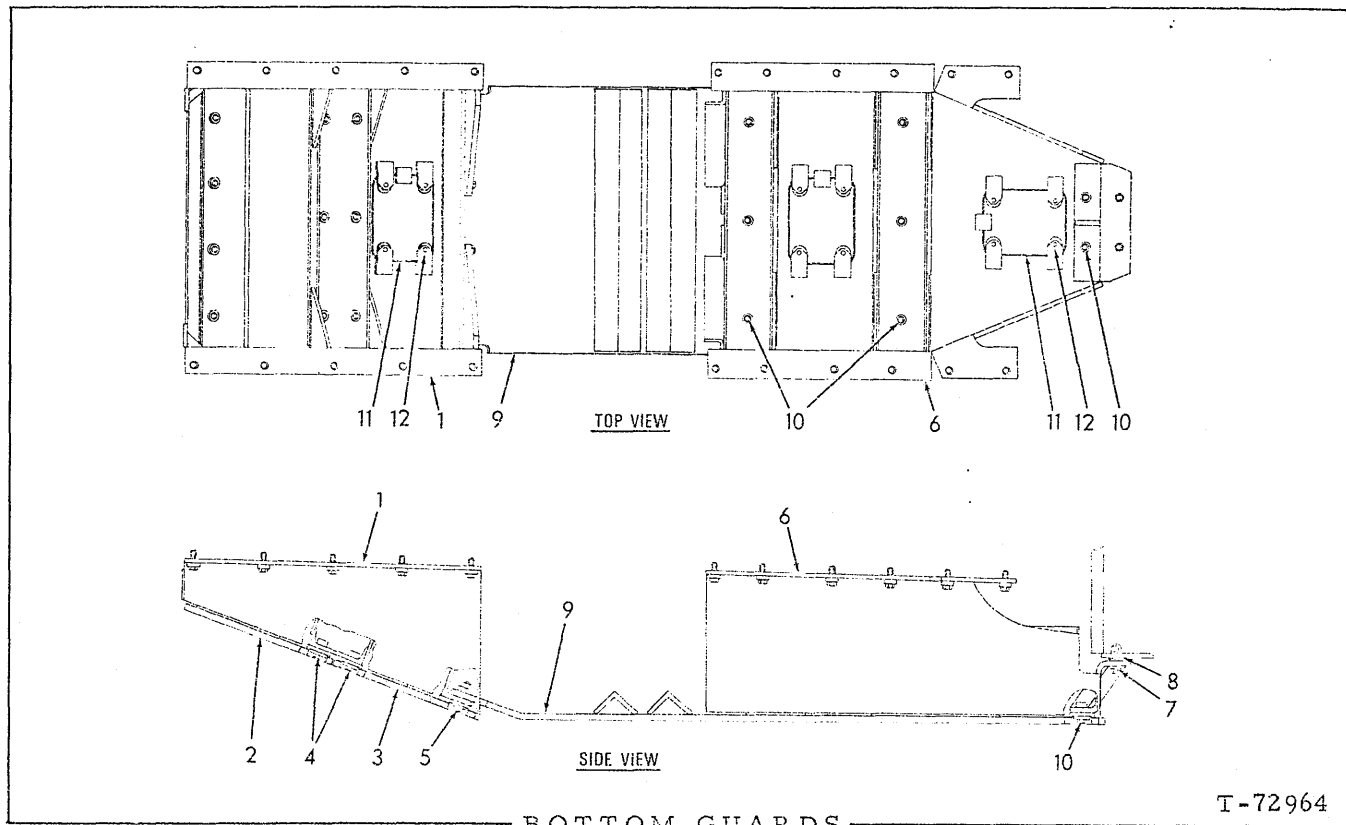
T-38124

ITEM	PART NO.	QTY.	DESCRIPTION
1	70690367	1	FRAME ASSY., left
	70690368	1	FRAME ASSY., right
	70914465	2	FITTING, lubricating, 1/8"NPT, straight (Tractors without counter weight)
	70917192	2	FITTING, lubricating, 1/8"NPT, 90° (Tractors with counter weight and ROPS Canopy)
2	70684490	2	CAP, sprocket shaft bearing
3	70928175	4	CAPSCREW, 1-1/4"NF x 6"
	70914730	4	LOCKWASHER, 1-1/4"
4	70664268	2	BUSHING, pivot shaft
5	70664280	2	SHAFT, pivot
6	70664281	4	SEAL, grease, pivot shaft
7	70630624	4	BAR, slide, track idler, upper
8	70631704	4	BAR, slide, track idler, lower
9	70632575	4	SHIM, slide bar (.028" thick. Use as required)
	70637601	4	SHIM, slide bar (.014" thick. Use as required)
10	70631690	20	DOWEL, tapped, track idler slide bar
11	70923276	20	CAPSCREW, 3/8"NF x 1"
12	70647080	20	WASHER, plain (hardened)

(Continued)

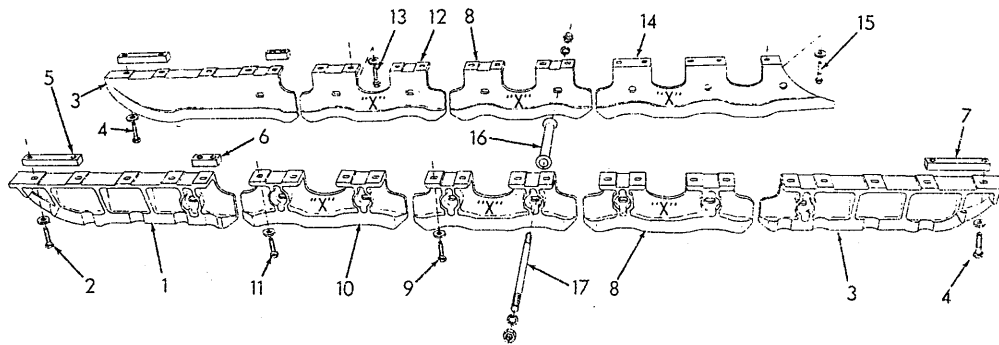
TRACK FRAME (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
13	70669409	6	BLOCK, tapped (For mounting dozing equipment) (Tractor prior to # 19462)
14	70035067	6	CAPSCREW, 1/2"NF x 2"
	70904208	6	LOCKWASHER, 1/2"
	70921403	6	CAPSCREW, 5/8"NC x 2"
	70677010	6	WASHER, plain
			} Tractors prior to #16209
			} Tractors # 16209 and up
15	70664850	12	CORK (1" diam.)(For protecting dozer mounting holes)
16	70669408	2	PLATE, closure
	70012992	4	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
	70044973	4	WASHER, plain
17	70921441	4	CAPSCREW, 5/8"NC x 1-1/2"
	70677010	4	WASHER, plain
			} Tractors prior to #16209
			} Tractors # 16209 and up
NOTE: Items listed below are Special Equipment			
19	70656795	2	GUARD, end left hand
	70656796	2	GUARD, end, right hand
20	70921068	8	CAPSCREW, 3/4"NC x 2-1/4"
	70929188	8	WASHER, plain
	70911030	8	NUT, 3/4"NC



USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70664745	1	FRAME, front
	70922743	10	CAPSCREW, 3/4"NC x 2"
	70677012	10	WASHER, plain
2	70676593	1	PLATE ASSY., bottom, front section; forward (Without access hole)(Late units)
	70924149	3	CAPSCREW, 3/4"NF x 2-1/4"
	70677012	3	WASHER, plain
3	70645961	1	PLATE ASSY., bottom, front section, rear (Includes items 12 and 13)(With access hole, 1 additional used on Early units)
4	70924149	3	CAPSCREW, 3/4"NF x 2-1/4"
	70677012	3	WASHER, plain
5	70925483	4	CAPSCREW, 3/4"NC x 3-1/4"
	70677012	8	WASHER, plain
	70911030	4	NUT, 3/4"NC
6	70667764	1	FRAME, rear
7	70921403	12	CAPSCREW, 5/8"NC x 2"
	70677010	12	WASHER, plain
8	70922789	2	CAPSCREW, 3/4"NC x 3"
	70677012	2	WASHER, plain
	70911030	2	NUT, 3/4"NC
9	70631959	1	SHIM, rear frame (Use as required)
10	70664774	1	PLATE ASSY., bottom, rear section (Includes items 12 and 13)
11	70924149	8	CAPSCREW, 3/4"NF x 2-1/4"
	70677012	8	WASHER, plain
12	70633283	3	COVER, access holes (1 additional used on Early units)
13	70921175	12	CAPSCREW, 1/2"NC x 1"
	70904208	12	LOCKWASHER, 1/2"



GUARDS MARKED "X" ARE SPECIAL EQUIPMENT

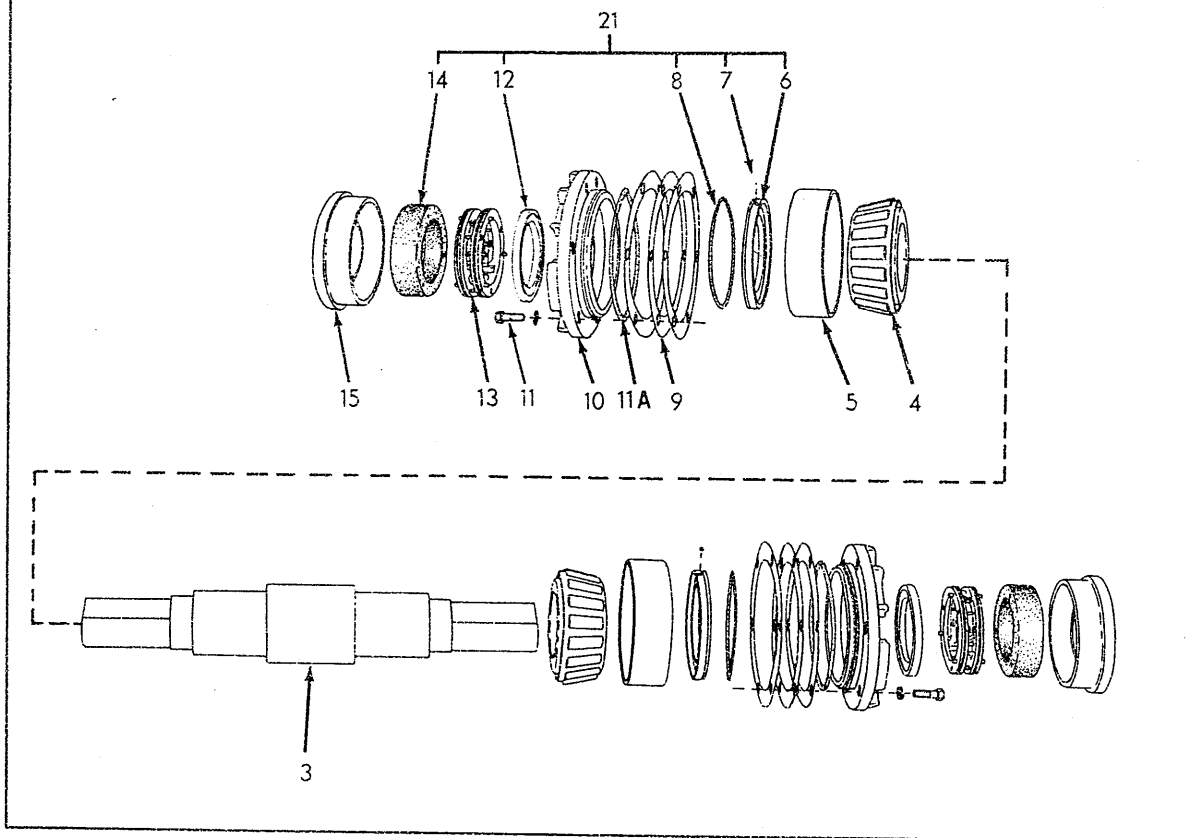
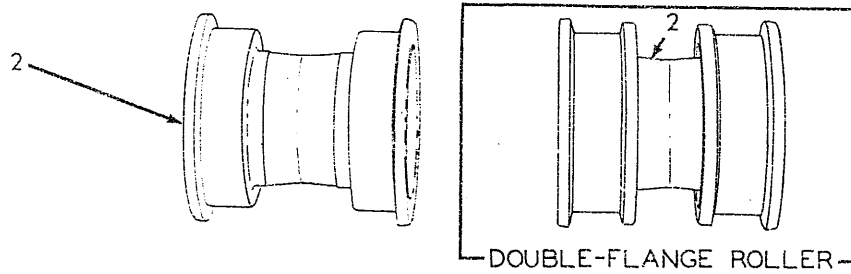
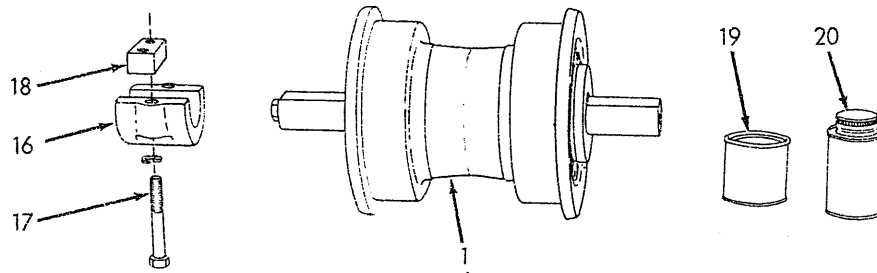
T-36228

TRACK ROLLER GUARDS

*Standard guarding.

**Special equipment guarding. (Supplement standard guarding)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70669551	3	-	GUARD, end section, left hand
2	70923137	15	-	CAPSCREW, 3/4"NF x 3"
	70677012	15	-	WASHER, plain
3	70669552	3	-	GUARD, end section, right hand
4	70923137	15	-	CAPSCREW, 3/4"NF x 3"
	70677012	15	-	WASHER, plain
5	70632349	4	-	BLOCK, tapped, front guard attachment (16-1/4" long) (Tractors prior to March 1973)
	70632350	6	-	BLOCK, tapped, front and rear guard attachment (8-1/2" long) (Tractors after March 1973)
6	70632325	4	-	BLOCK, tapped, front guard attachment (8-1/2" long) (Tractors prior to March 1973)
	70098730	2	-	BLOCK, tapped, front guard attachment (3-1/4" long) (Tractors after March 1973)
7	70632350	4	-	BLOCK, tapped, rear guard attachment (Tractors prior to March 1973)
8	70669550	-	6	GUARD, intermediate section
9	70923137	-	24	CAPSCREW, 3/4"NF x 3"
	70677012	-	24	WASHER, plain
10	70669553	-	2	GUARD, intermediate front section, left hand
11	70923137	-	8	CAPSCREW, 3/4"NF x 3"
	70677012	-	8	WASHER, plain
12	70669554	-	2	GUARD, intermediate front section, right hand
13	70923137	-	8	CAPSCREW, 3/4"NF x 3"
	70677012	-	8	WASHER, plain
14	70669555	-	1	GUARD, rear inner section, left side
	70669556	-	1	GUARD, rear inner section, right hand
15	70923137	-	10	CAPSCREW, 3/4"NF x 3"
	70677012	-	10	WASHER, plain
16	70632361	2	14	SPACER, guard bracing
17	70650847	2	14	ROD, guard bracing
	70914728	4	28	LOCKWASHER, 1"
	70911047	4	28	NUT, 1"NF



TRACK ROLLERS (First type)

T-5148

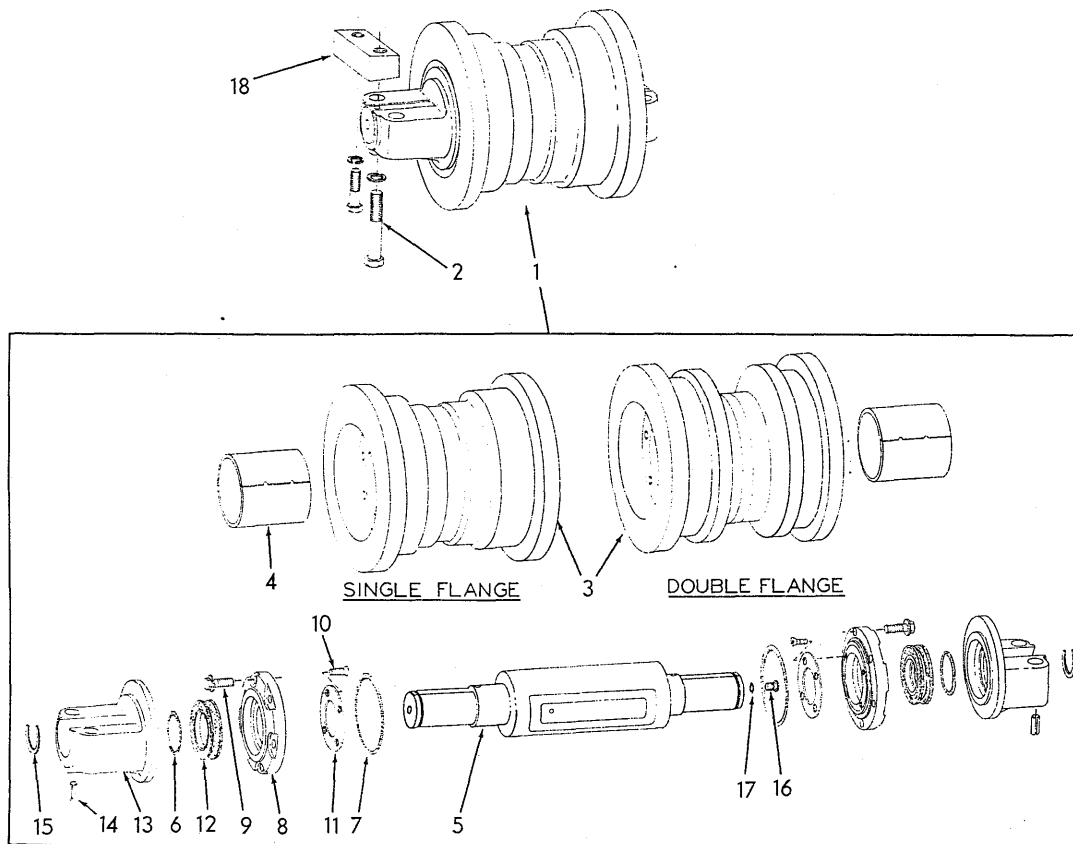
TRACK ROLLERS (First Type)

USAGE: Tractors prior to serial No. 10S17615

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70667647	6	ROLLER ASSY., single-flange	} Each consists of items 2 thru 15
	70667648	8	ROLLER ASSY., double-flange	
2	70667645	6	ROLLER, single-flange	}
	70667646	8	ROLLER, double-flange	
3	70622437	14	SHAFT	
4	70076296	28	CONE ASSY., bearing	
5	70604398	28	CUP, bearing	
6	70622197	28	□RING, seal, inner	
7	70905357	28	□BALL, steel, 3/16" diam.	
8	70923822	28	□O-RING, seal ring	
9	70655470	56	SHIM, bearing adjustment (.003" thick)	} Use as required
	70648748	28	SHIM, bearing adjustment (.005" thick)	
	70076294	56	SHIM, bearing adjustment (.007" thick)	
	70076293	56	SHIM, bearing adjustment (.010" thick)	
	70076292	28	SHIM, bearing adjustment (.032" thick)	
10	70667600	28	RETAINER, bearing	
11	70913105	168	CAPSCREW, 1/2"NF x 1-1/2"	
	70912441	168	LOCKWASHER, 1/2"	
11A	70923932	28	O-RING, bearing retainer	
12	70051623	28	□RING, seal, outer	
13	70051959	28	SPRING ASSY., seal (Serviced only as a unit)	
14	70051629	28	□BOOT, seal spring	
15	70076298	28	RETAINER, seal	
16	70098744	28	BRACKET, attaching	
17	70085026	56	CAPSCREW, 7/8"NF x 4-1/2"	
	70676122	56	WASHER, plain	
18	70098730	56	BLOCK, tapped, attaching capscREW	} Not used when full set of Track Roller Guards is installed
	70012453	56	CAPSCREW, 3/4"NF x 2"	
	70904369	56	LOCKWASHER, 3/4"	
19	70033288	-	CEMENT, neoprene, 1/2 pint can	} For cementing seal boots
20	70054890	-	SOLVENT, neoprene cement, 1/2 pint can	
21	70622234	14	SEAL KIT (Includes parts for one (1) roller only; items 6, 7, 8, 12 and 14)	

□Components of item 21

(Revised September 1976)



TRACK ROLLERS (Second Type)

T-75942

USAGE: Tractors serial No. 10S17615 and up

* Tractors prior to serial No. 10S19292

** Effective tractor serial No. 10S19292

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
1	70671146	6	-	ROLLER ASSY., single-flange	Each includes items 3 thru 14
	70671153	8	-	ROLLER ASSY., double-flange	
	70688004	-	6	ROLLER ASSY., single-flange	Each includes items 3 thru 17 excluding item 14
	70688005	-	8	ROLLER ASSY., double-flange	
2	70927143	56	56	CAPSCREW, 7/8"NF x 4-3/4"	
	70676122	56	56	WASHER, plain	
3	70671143	6	6	ROLLER ASSY., single-flange	Each includes item 4
	70671144	8	8	ROLLER ASSY., double-flange	
<u>NOTE:</u> Quantities listed below are for one (1) roller only					
4	70671145	2	2	BUSHING, roller	
5	70671127	1	-	SHAFT	
	70688006	-	1	SHAFT	

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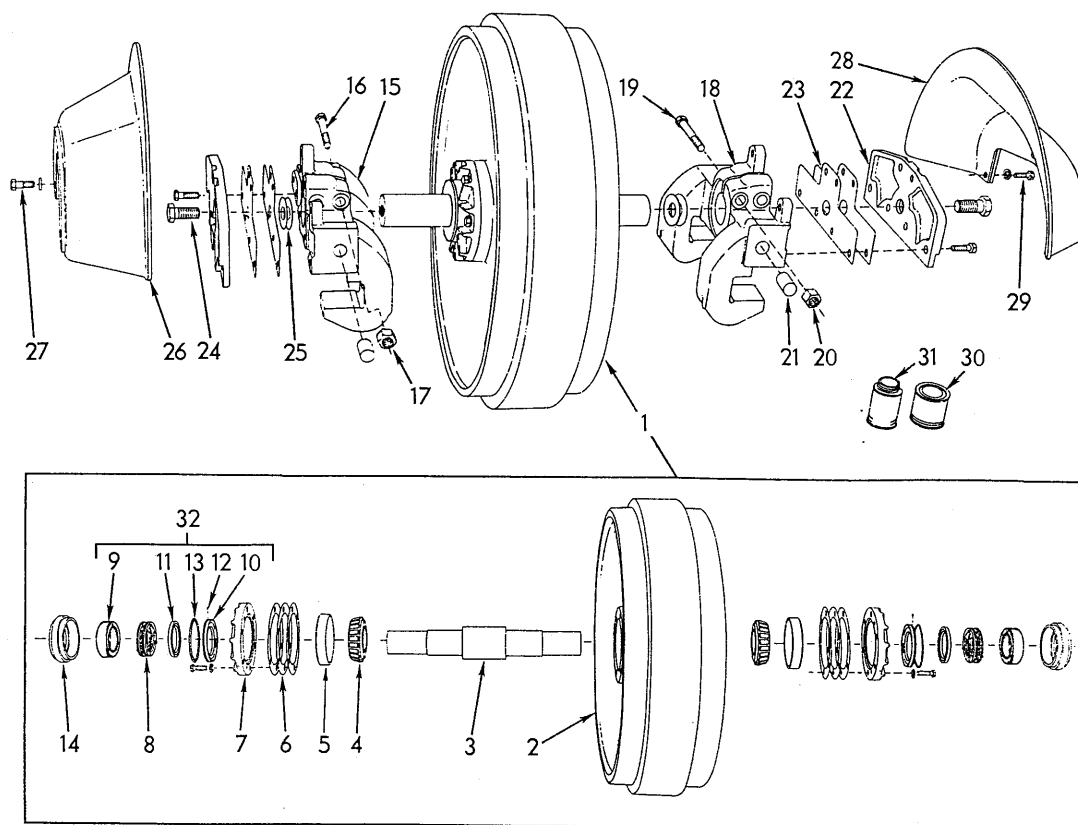
TRACK ROLLERS (Second Type)(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
6	{ 70923852	2 -	O-RING, shaft
	70923581	- 2	O-RING, shaft
7	70923591	2 2	O-RING, retainer
8	{ 70671130	2 -	RETAINER ASSY.
	70688009	- 2	RETAINER ASSY. (Tractors prior to unit #19475)
	70690667	- 2	RETAINER ASSY. (Tractors unit #19475 and up)
9	70670849	12 12	CAPSCREW, retainer attaching
10	{ 70669707	6 -	PIN, washer retaining (.243" diam.)
	70681724	- 8	PIN, washer retaining (.290" diam.)(Tractors prior to unit #19475)
	70930307	- 8	SCREW, flat-hd., hex-socket, 1/4"NC x 3/8"(Tractors unit #19475 and up)
11	{ 70671129	2 -	WASHER, thrust
	70683358	- 2	WASHER, thrust (Tractors prior to unit #19475)
	70690665	- 2	WASHER, thrust (Tractors unit #19475 and up)
12	70671177	2 2	SEAL ASSY. (Includes item 19)
13	{ 70670852	2 -	CAP, seal retaining
	70688007	- 2	CAP, seal retaining
14	70922419	2 -	PIN, spring (1/2" x 1-1/8")
15	70688012	- 2	RING, snap, cap retaining
16	70689291	- 1	PLUG, shaft (sq.-socket, 3/4"NF thd.)
17	70923847	- 1	O-RING, plug
18	70098730	4 4	BLOCK, roller mounting
	70924149	4 4	CAPSCREW, 3/4"NF x 2-1/4"
	70914726	4 4	LOCKWASHER, 3/4"
19	70690650	- -	RING SET, seal (Enables replacement of the rubber sealing washers without having to replace the steel sealing rings or the entire Seal Assy.)(Includes 2 sealing washer, sufficient to service 1 SEAL ASSY.)

Each includes item 10 and 11

Also order item 10. Requires a grind and drill operation to install

Not used when full set of Track Roller Guards is installed



TRACK IDLER

T-33433

USAGE: Tractors prior to serial No. 10S19112, excluding Nos. 10S19057, 10S19071 and 10S19106

ITEM	PART NO.	QTY.	DESCRIPTION
1	70667380	2	IDLER ASSY., track (Spoke-type. Standard on tractors prior to unit No. 18567) (Order IDLER ASSY. 70683729)
	70667388	2	IDLER ASSY., track (Solid-type. Special on tractors prior to unit No. 18567; standard thereafter) (Order IDLER ASSY. 70683729)
2	70622203	2	IDLER, only (Spoke-type. Standard on tractors prior to unit No. 18567)
	70622649	2	IDLER, only (Solid-type. Special on tractors prior to unit No. 18567; standard thereafter)
3	70667379	2	SHAFT
4	70076296	4	CONE ASSY., bearing
5	70630345	4	CUP, bearing
6	70051614	6	SHIM, bearing adjustmen (.032" thick)
	70051615	6	SHIM, bearing adjustment (.010" thick)
	70051616	6	SHIM, bearing adjustment (.007" thick)
	70655548	8	SHIM, bearing adjustment (.003" thick)
Use as required			

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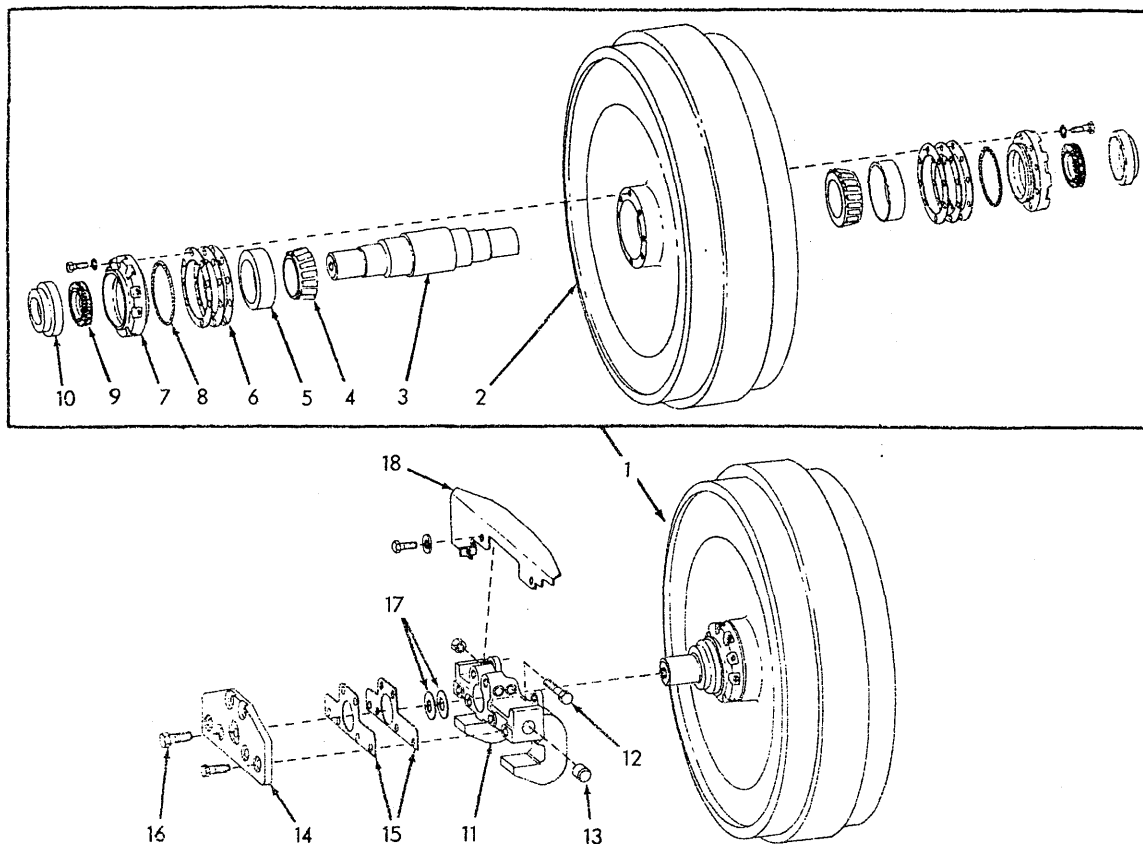
TRACK IDLER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	70622202	4	RETAINER, bearing
	70916406	24	CAPSCREW, 5/8"NF x 1-3/4"
	70904209	24	LOCKWASHER, 5/8"
8	70051959	4	SPRING ASSY., seal (Serviced only as a unit)
9	70051629	4	☐ BOOT, seal
10	70622197	4	☐ RING, seal, inner
11	70051623	4	☐ RING, seal, outer
12	70905357	4	☐ BALL, steel, 3/16" diam.
13	70923822	4	☐ O-RING, seal ring
14	70622199	4	RETAINER, seal follower
15	70673043	2	BRACKET ASSY., left (Includes item 21)
16	70928133	4	CAPSCREW, 3/4"NF x 5-3/4"
17	70012767	4	NUT, high, 3/4"NF
18	70673044	2	BRACKET ASSY., right (Includes item 21)
19	70928133	4	CAPSCREW, 3/4"NF x 5-3/4"
20	70012767	4	NUT, high, 3/4"NF
21	70051647	4	PIN, dowel, idler bracket
22	70667236	4	PLATE, guide
	70927529	24	CAPSCREW, 5/8"NF x 1-3/4"
23	{ 70667378	8	SHIM, guide plate (.062" thick. Use as required)
	{ 70667377	8	SHIM, guide plate (.031" thick. Use as required)
24	70926566	4	CAPSCREW, idler adjustment (1"NF x 2")
25	{ 70667366	16	SHIM, idler adjustment (1/16" thick)
	{ 70667367	4	SHIM, idler adjustment (1/32" thick)
26	70084997	2	GUARD, left
27	70921168	6	CAPSCREW, 5/8"NF x 2"
	70677010	6	WASHER, plain
28	70084998	2	GUARD, right
29	70921168	6	CAPSCREW, 5/8"NF x 2"
	70677010	6	WASHER, plain
30	70033288	-	CEMENT, neoprene, 1/2 pint can
31	70054890	-	SOLVENT, neoprene, 1/2 pint can
32	70622234	2	SEAL KIT (Includes parts for one (1) idler only; items 9 thru 13)

☐ Components of item 32

Not used with
solid-type idler

For cementing seal
boots and gaskets



T-75938

TRACK IDLER

USAGE: Tractor serial No. 10S19112 and up including Nos. 10S19057, 10S19071 and 10S19106

ITEM	PART NO.	QTY.	DESCRIPTION
1	70683729	2	IDLER ASSY. (Original equipment)(Includes items 2 thru 10)
	70691607	2	IDLER ASSY. (Service replacement)(Includes items 2 thru 10)
2	70670062	2	IDLER, only (Original equipment)
	70691604	2	IDLER, only (Service replacement)
3	70670064	2	SHAFT
4	70051989	4	CONE ASSY.
5	70051988	4	CUP
6	70671629	6	SHIM (.032" thick)
	70671628	6	SHIM (.010" thick)
	70671627	6	SHIM (.007" thick)
	70671626	8	SHIM (.003" thick)
7	70670068	4	RETAINER
	70921535	24	CAPSCREW, 5/8"NC x 1-3/4"(Used on all tractors excluding unit #19719 thru #20080, but including #19747, 19985 and 19886)
	70912942	24	LOCKWASHER, 5/8"
	70927529	24	CAPSCREW, 5/8"NC x 1-3/4"(Tractor unit #19719 thru #20080, excluding #19747, 19985 and 19986)

Use as required

(Continued)

(Revised May 1976)

TRACK IDLER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70923594	4	O-RING
9	70653113	4	SEAL (See item 19)
10	70670066	4	RETAINER
11	70682823	4	BRACKET ASSY. (Includes item 13)
12	70921241	4	CAPSCREW, 1" NC x 6" } Used on all tractors excluding unit #19719 thru #20080, but including
	70923243	4	NUT, high, 1" NC } #19747, 19985 and 19986
	70928133	8	CAPSCREW, 3/4" NF } Tractor unit #19719 thru x 5-3/4" } #20080, excluding #19747, 19985 and 19986
	70012767	8	NUT, high, 3/4" NF }
13	70051647	8	PIN
14	70667236	4	PLATE
	70921535	24	CAPSCREW, 5/8" NC x 1-3/4"
15	70667378	8	SHIM (.062" thick) } Use as required
	70667377	8	SHIM (.031" thick) }
16	70926566	4	CAPSCREW (1" NF x 2")
17	70667367	4	SHIM (.03" thick) } Use as required
	70667366	16	SHIM (.06" thick) }
18	70686065	2	GUARD, left } Special equipment
	70686066	2	GUARD, right }
	70921535	8	CAPSCREW, 5/8" NC x 1-3/4"
	70677010	8	WASHER
19	70699061	4	RING SET, seal (Includes 2 rubber sealing washers sufficient to service 1 Seal Assy.)(Not illustrated)

(Revised May 1976)

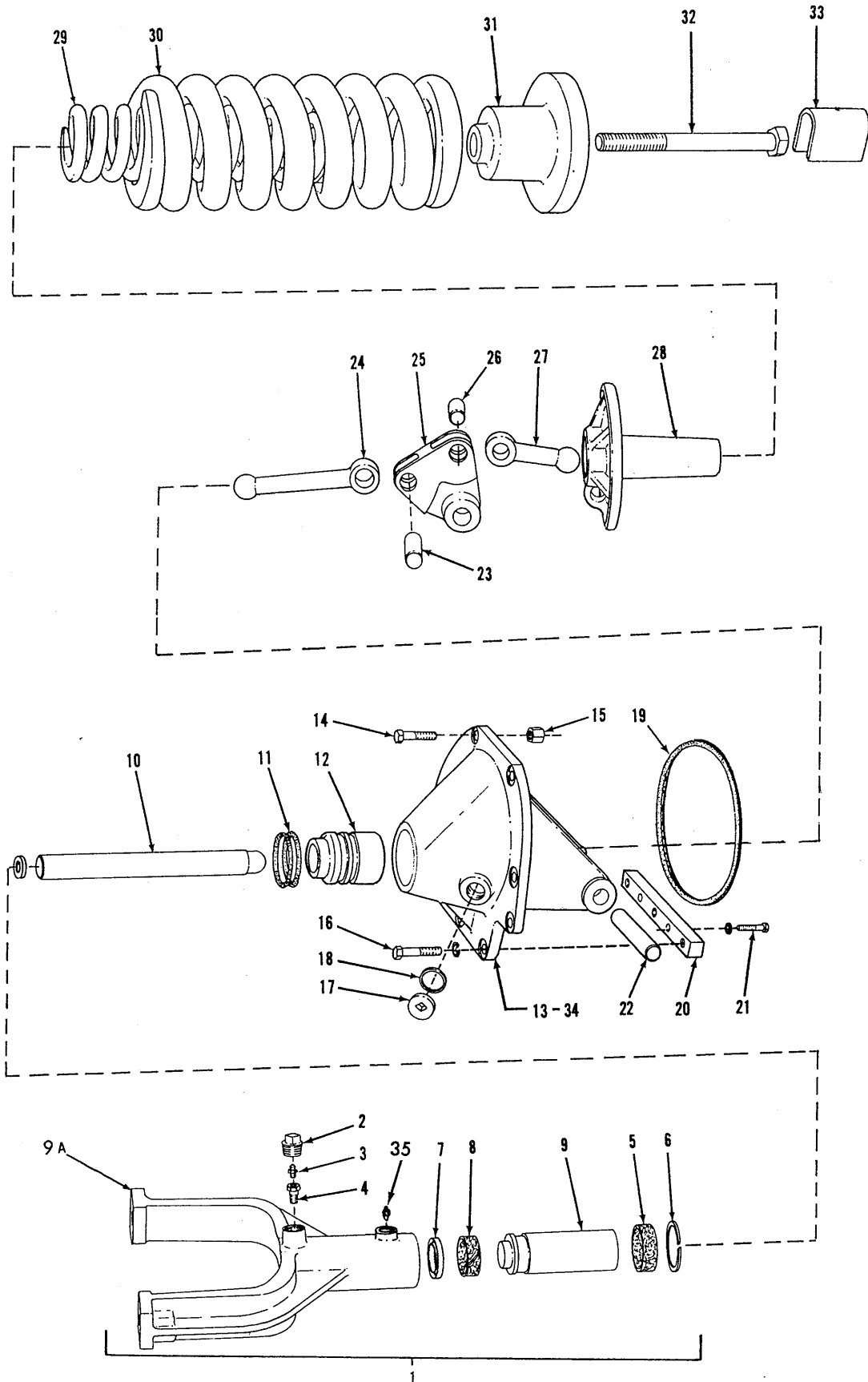
TRACK CARRIER ROLLER

*Original Equipment
**Service Replacement

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70623825	4	-	ROLLER ASSY. (Includes items 2 thru 16)
	73119312	-	4	ROLLER ASSY. (Includes items 2, 3, 5 thru 8, 13, 15, 16 and 19)
2	70623828	4	4	BRACKET
3	70623827	4	-	SHAFT
	73119315	-	4	SHAFT
4	70043491	8	-	CONE ASSY., , bearing
5	70659149	8	-	CUP, bearing
	70683577	-	8	CUP AND CONE ASSY.
6	70655458	16	16	SHIM (.003" thick)
	70073024	16	16	SHIM (.007" thick)
	70073025	16	16	SHIM (.010 " thick)
	70073026	8	8	SHIM (.032" thick)
7	70073023	8	-	RETAINER
	73119311	-	8	RETAINER
8	70921076	48	48	CAPSCREW, 3/8"NC x 1-1/4"
	70910287	48	48	LOCKWASHER, 3/8"
9	70073029	8	-	☐ O-RING, seal packing
10	70073027	8	-	☐ RING, seal, inner
11	70905357	8	-	☐ BALL, steel, 3/16" diam.
12	70621283	8	-	☐ RING, seal, outer
13	70048666	8	-	SPRING ASSY., seal (Serviced only as a unit)
	70671158	-	8	SEAL ASSY.
14	70048665	8	-	BOOT
15	70073634	8	-	RETAINER
	70671160	-	8	RETAINER
16	70623829	8	8	ROLLER
17	70012762	16	-	CAPSCREW, (7/8"NF x 3-1/4")(Tractors prior to unit #17604)
	70927186	16	16	CAPSCREW (7/8"NF x 3-1/2")(Tractors unit #17604 and up)
	70676122	16	16	WASHER
18	70623826	8	-	BLOCK, tapped
19	70923586	-	8	O-RING
20	70078941	4	-	SEAL KIT (Includes parts for one (1) roller assembly only; items 9 thru 12)

Use as required

☐ Components of item 20



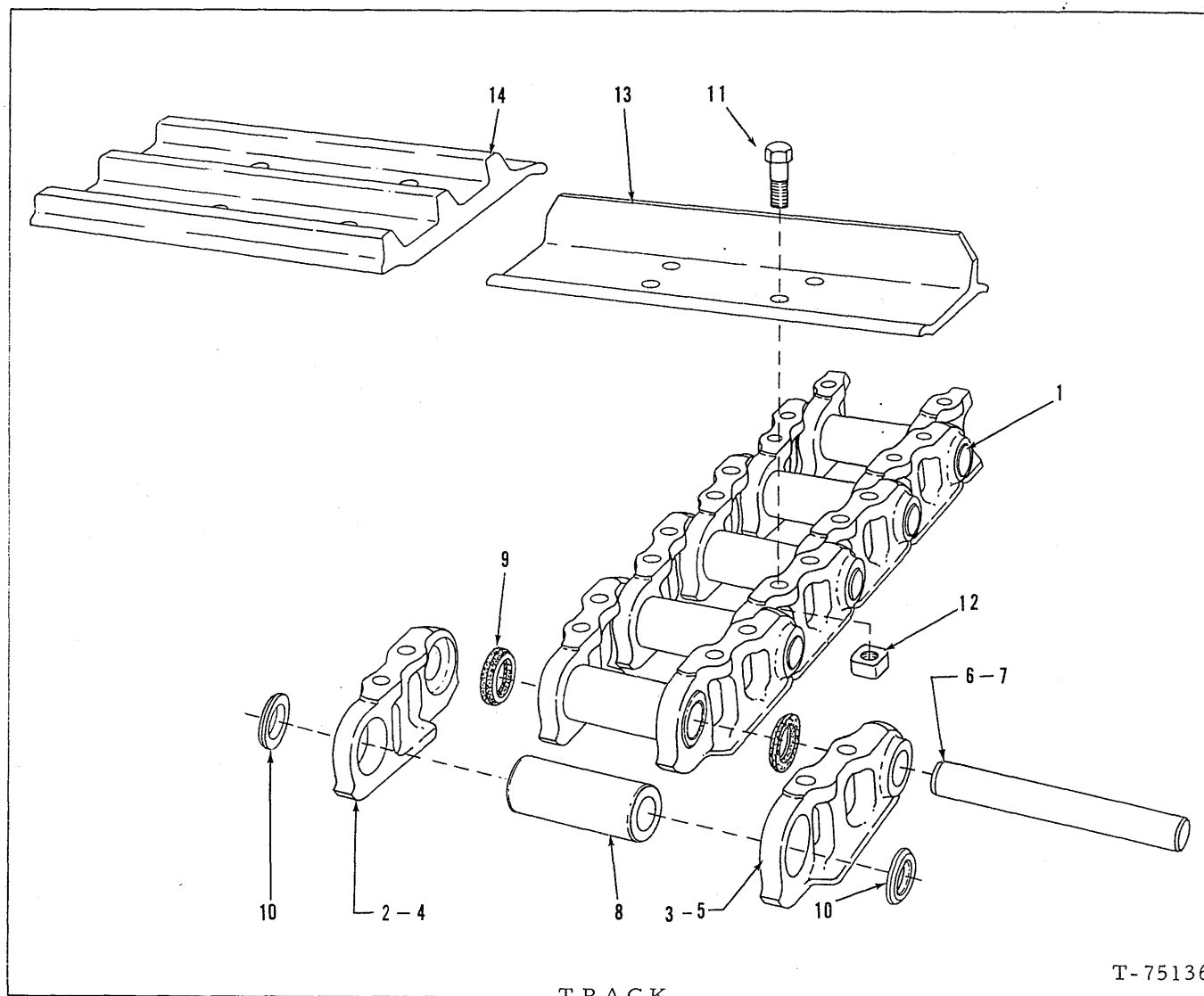
TRACK RELEASE

T-73574

TRACK RELEASE

ITEM	PART NO.	QTY.	DESCRIPTION
1	70665110	2	YOKE ASSEMBLY (Includes items 2 thru 9A)
2	70666367	2	PLUG, yoke
3	70666407	2	FITTING, pressurizing
4	70628915	2	VALVE ASSEMBLY, check (Serviced only as a unit)
5	70665115	2	RING, wear, release yoke
6	73045326	2	RING, snap
7	70628914	2	SEAL, piston
8	70665114	2	RING, wear, adjusting piston
9	70665113	2	PISTON, adjusting
9A	70665112	2	YOKE
10	70684419	2	BAR, push
	70602663	4	WASHER, plain (Tractors unit #18517 thru #18546)
11	70923831	4	O-RING, crosshead
12	70621204	2	CROSSHEAD
13	70649761	2	GUIDE, crosshead
14	70921171	12	CAPSCREW, 3/4"NF x 2-3/4"
15	70012767	12	NUT, high, 3/4"NF
16	70928146	6	CAPSCREW, 3/4"NF x 3-1/4"
	70928914	6	WASHER
17	70035250	4	PLUG, crosshead guide filling hole
18	70667252	4	GASKET, crosshead guide filling hole plug
19	70051786	2	GASKET, crosshead guide
20	70051812	2	BLOCK, tapped, crosshead guide mounting
21	70924864	4	CAPSCREW, 1/2"NC x 2-1/4"
	70677008	4	WASHER, plain
22	70051799	2	PIN, bellcrank pivot
23	70649763	2	PIN, front push rod
24	70649765	2	ROD, push, front
25	70649762	2	BELLCRANK
26	70649763	2	PIN, rear push rod
27	70649764	2	ROD, push, rear
28	70051790	2	PLUNGER, spring
29	70059179	2	SPRING, inner
30	70051800	2	SPRING, outer
31	70095529	2	SEAT, spring
32	70064819	2	CAPSCREW, spring adjustment
33	70051795	2	LOCK, spring adjustment capscREW
34	70649766	2	GUIDE ASSEMBLY, crosshead (Consists of items 13, 22 thru 27)
35	70914465	2	FITTING, lubricating, 1/8"NPT (Tractors unit #19276 and up)

(Revised May 1976)



T-75136

TRACK

* Sealed type (Standard on tractors prior to serial No. 10S18567)
 ** Unsealed type (Standard on tractors serial No. 10S18567 and up)

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
1	70667299	2	-	CHAIN ASSY. (40 links) (Consists of items 2 thru 9)	Basic to all standard and special track assemblies
	70679324	-	2	CHAIN ASSY. (40 links) (Consists of items 2 thru 8 and 10)	
2	70667263	78	78	LINK, left	
3	70667264	78	78	LINK, right	
4	70667435	2	2	LINK, master, left	
5	70667436	2	2	LINK, master, right	
6	70079601	78	78	PIN	
7	70621294	2	2	PIN, master	

(Continued)

TRACK (Continued)

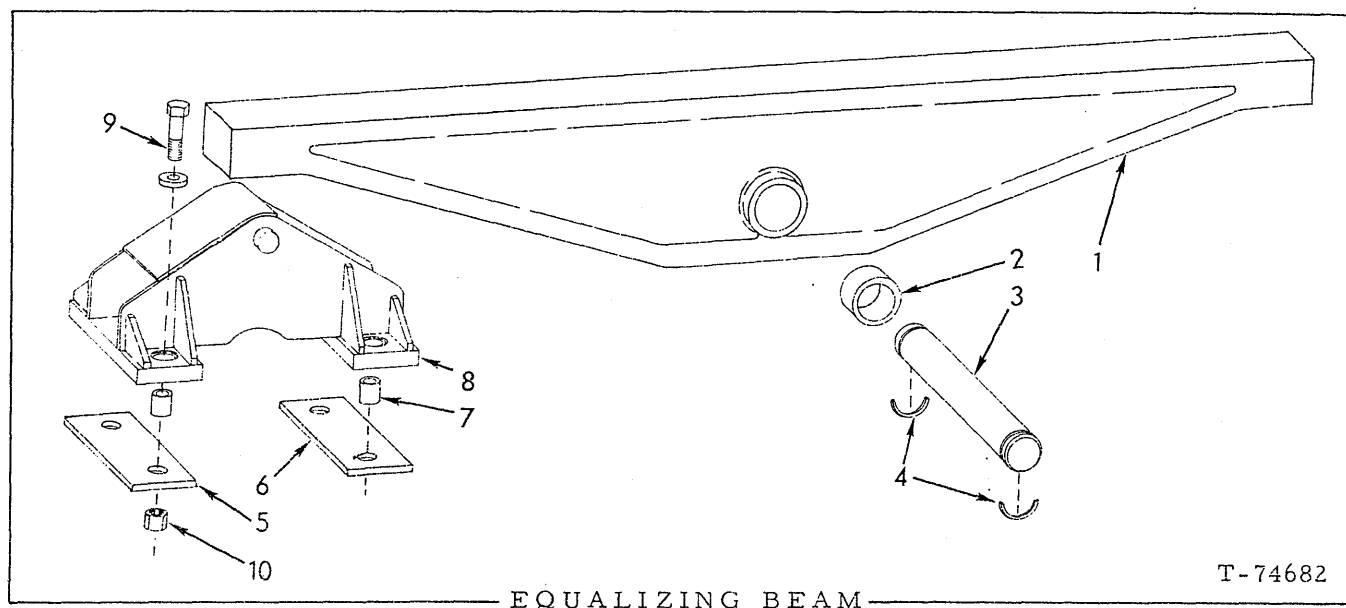
ITEM	PART NO.	QTY. * **	DESCRIPTION
8	70667292	80 2	BUSHING
	70679274	- 78	BUSHING
9	70683984	160 -	SEAL
10	70679275	- 4	SPACER
11	70097056	320 320	BOLT, track shoe (2-5/8" long)
	70097053	320 -	BOLT, track shoe (2-15/16" long)(For use with semi-grouser shoes only)
	70655838	320 320	BOLT, track shoe (2-3/4" long)(For severe-service shoes only)
12	70663466	320 320	NUT, track shoe bolt

TRACK SHOES

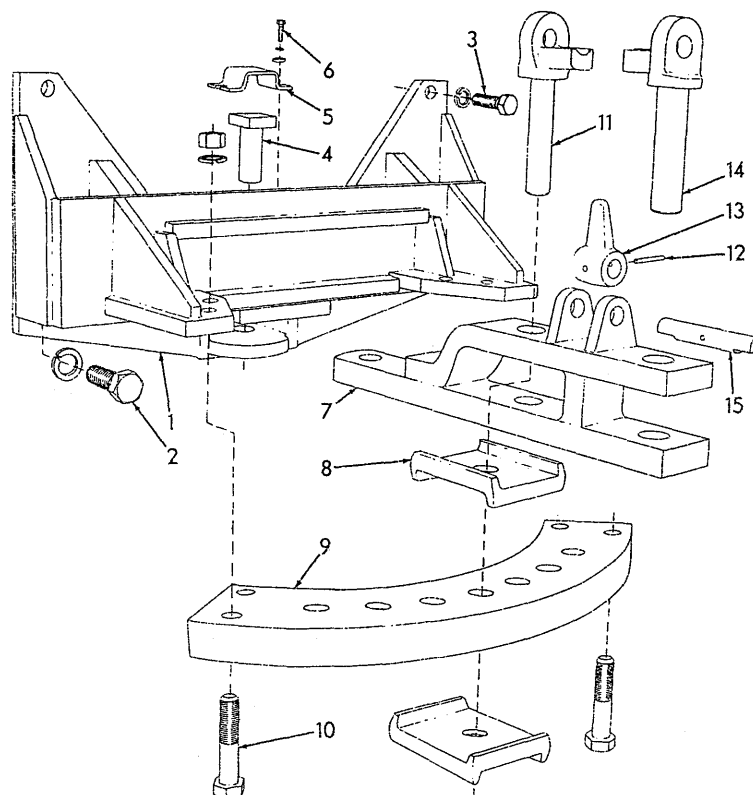
COMPLETE TRACK ASSEMBLIES
WITH SHOES (2 Required)

					* **	
13	70663563	80 80	SHOE, grouser, 22"	70667315	. . .	70679295
	70664005	80 80	SHOE, grouser, 22" (Severe-service)	70667347	. . .	70680227
	70663370	80 80	SHOE, grouser, 24"	70667300	. . .	70680229
	70663575	80 80	SHOE, grouser, 24" (Severe-service)	70667340	. . .	70679306
	70663552	80 80	SHOE, grouser, 26"	70667328	. . .	70680231
	70664009	80 80	SHOE, grouser, 26" (Severe-service)	70667350	. . .	70680235
	70663548	80 80	SHOE, grouser, 28"	70667331	. . .	70680233
	70663574	80 80	SHOE, grouser, 28" (Severe-service)	70667343	. . .	70680237
14	70663596	80 -	SHOE, semi-grouser, 24"	70667318		
15	75000528	- -	UNDERCARRIAGE MEASURING KIT (Includes all tools required to determin remaining life of undercarriage components)			

(Revised February 1978)



ITEM	PART NO.	QTY.	DESCRIPTION
1	70662957	1	BEAM ASSEMBLY (Includes item 2)
2	70052256	2	BUSHING, beam pivot
3	70630032	1	PIN, beam pivot
4	70630302	2	RING, pivot pin retaining
5	70650770	2	PAD, shock, outer
6	70662924	2	PAD, shock, inner
7	70662897	8	BUSHING, bracket spacing
8	70662940	2	BRACKET, shock pad
9	70073424	8	CAPSCREW, 1"NF x 4" (Tractors prior to unit #19085)
	70927314	8	CAPSCREW, 1"NC x 3-1/2" (Tractor unit #19085 and up, excluding unit #19397, 19462 and 19624)
	70922175	8	CAPSCREW, 1"NF x 4" (Tractor unit #19397, 19462 and 19624)
	70617611	8	WASHER, plain
10	70600236	8	NUT, high, 1"NF (Tractors prior to unit #19085, including #19397, #19462 and #19624)

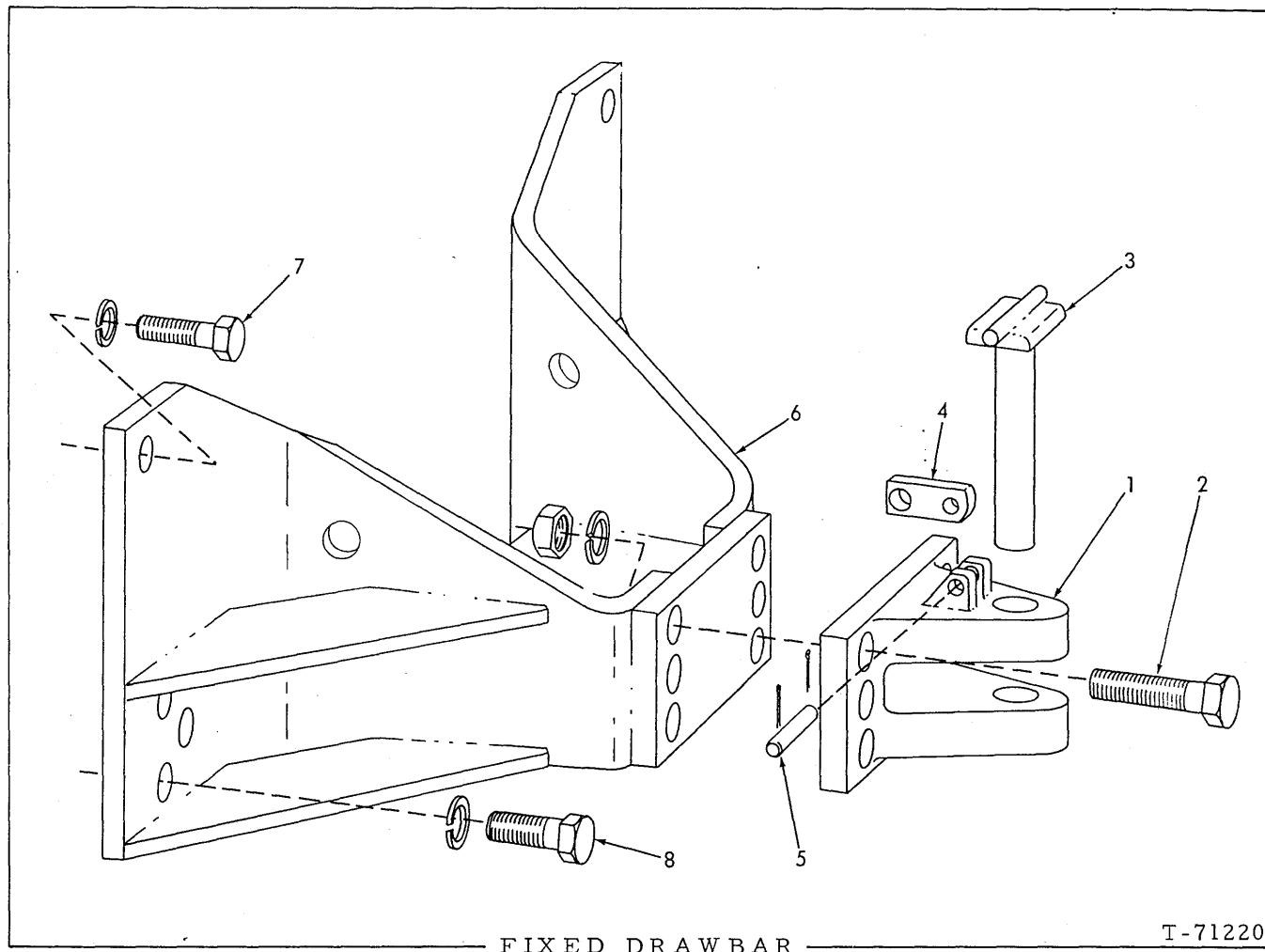


SWINGING DRAWBAR

T-71875

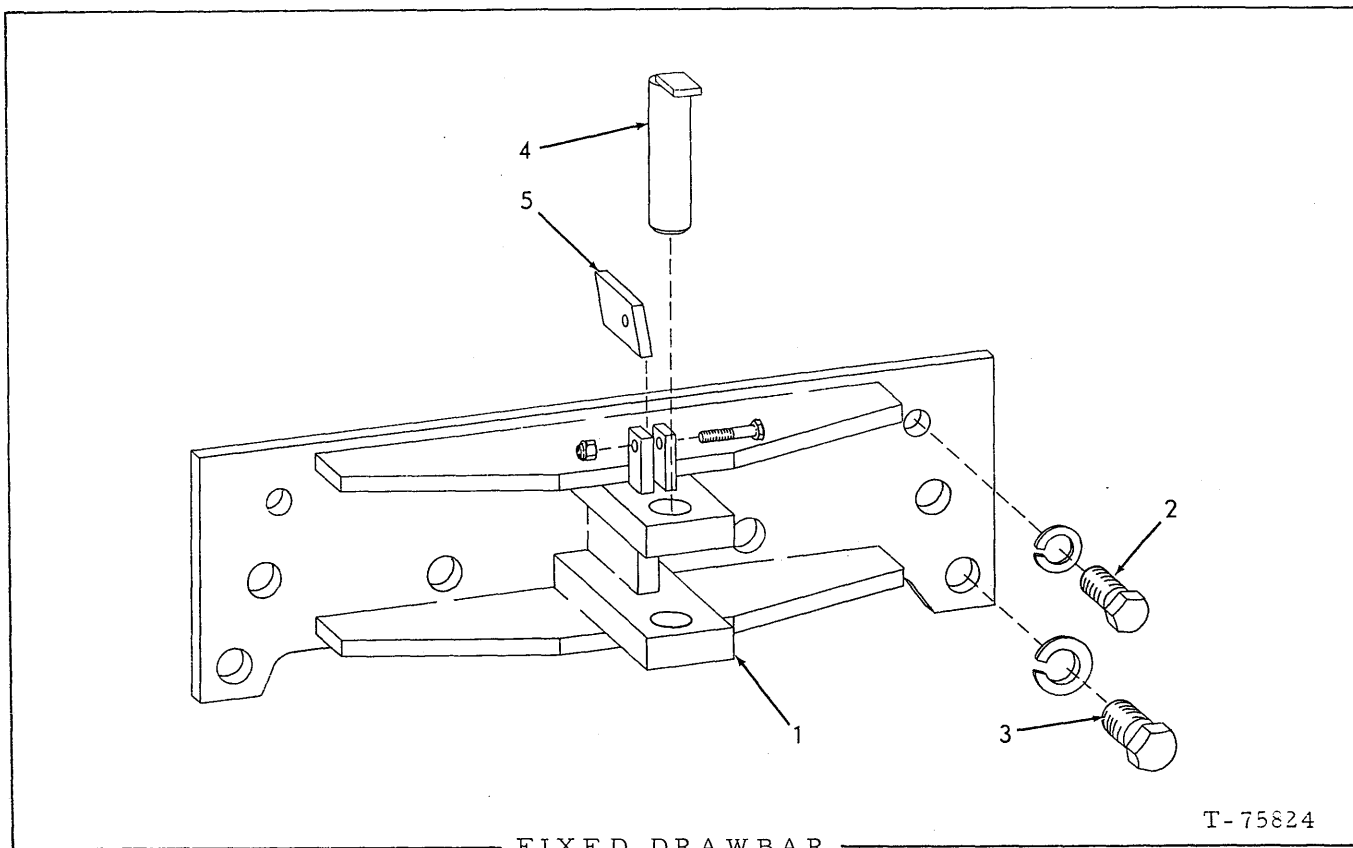
USAGE: Optional equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70648683	1	BRACKET, mounting
2	70629966	2	CAPSCREW, 1-1/2"NF x 4-1/4"
	70913077	2	LOCKWASHER, 1-1/2"
3	70052361	6	CAPSCREW, 1-1/4"NF x 4"
	70904210	6	LOCKWASHER, 1-1/4"
4	70056995	1	PIN, hinge
5	70052155	1	PLATE, hinge pin retaining
6	70035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	70904208	2	LOCKWASHER, 1/2"
	70064531	2	WASHER, plain
7	70648643	1	DRAWBAR
8	70648652	2	SHOE, wear
9	70648646	1	PLATE, drawbar supporting
10	70098266	4	CAPSCREW, 1-1/4"NF x 5-5/8"
	70904210	4	LOCKWASHER, 1-1/4"
	70913097	4	NUT, 1-1/4"NF
11	70052366	1	PIN, drawbar locking
12	70052159	1	PIN, locking arm
13	70052069	1	ARM, locking, drawbar pins
14	70052367	1	PIN, drawbar coupling
15	70052060	1	SHAFT, locking arm



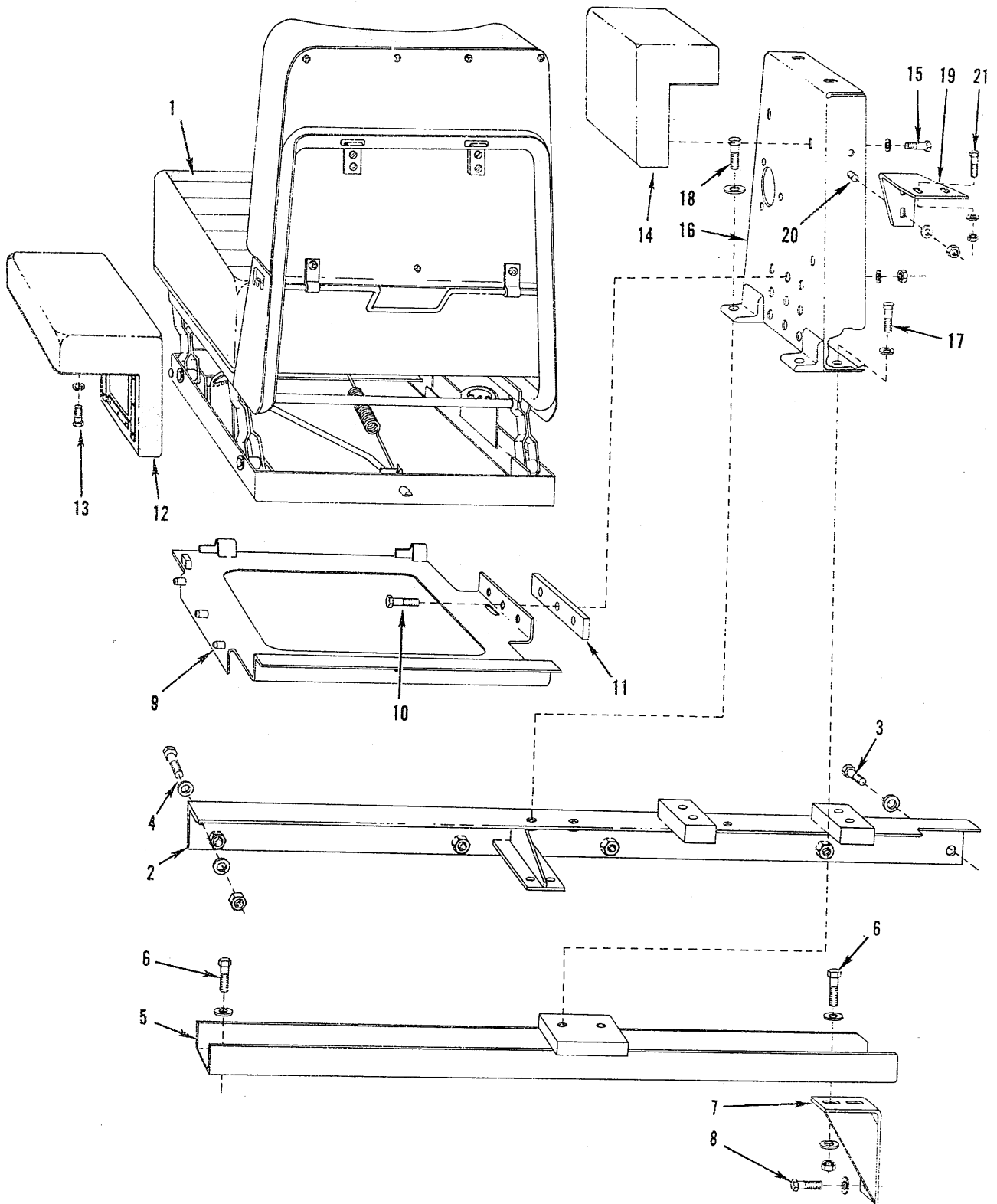
USAGE: Standard equipment on Tractors prior to serial No. 10S17233 and optional equipment thereafter.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70098837	1	BRACKET, coupling
2	70648331	6	CAPSCREW, 1-1/2"NF x 6-1/4"
	70913077	6	LOCKWASHER, 1-1/2"
	70916555	6	NUT, 1-1/2"NF
3	70633674	1	PIN, drawbar
4	70629697	1	BLOCK, retaining, drawbar pin
5	70629698	1	PIN, retaining block
	70900806	2	PIN, cotter, 1/8" x 1"
6	70633675	1	BRACKET, supporting
7	70926856	4	CAPSCREW, 1-1/4"NF x 4"
	70904210	4	LOCKWASHER, 1-1/4"
8	70625383	4	CAPSCREW, 1-1/2"NF x 4"
	70913077	4	LOCKWASHER, 1-1/2"



USAGE: Standard equipment on tractors serial No. 10S17233 and up

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70674318	1	DRAWBAR	
2	70926856	2	CAPSCREW, 1-1/4"NF x 4"	} Not used when equipped with counterweight
	70914730	2	LOCKWASHER, 1-1/4"	
3	70926857	4	CAPSCREW, 1-1/2"NF x 4"	
	70912603	4	LOCKWASHER, 1-1/2"	
4	70674320	1	PIN, coupling	
5	70674321	1	PLATE, pin retaining	
	70922526	1	CAPSCREW, 1/2"NC x 2-1/2"	
	70915972	1	NUT, elastic stop, 1/2"NC	

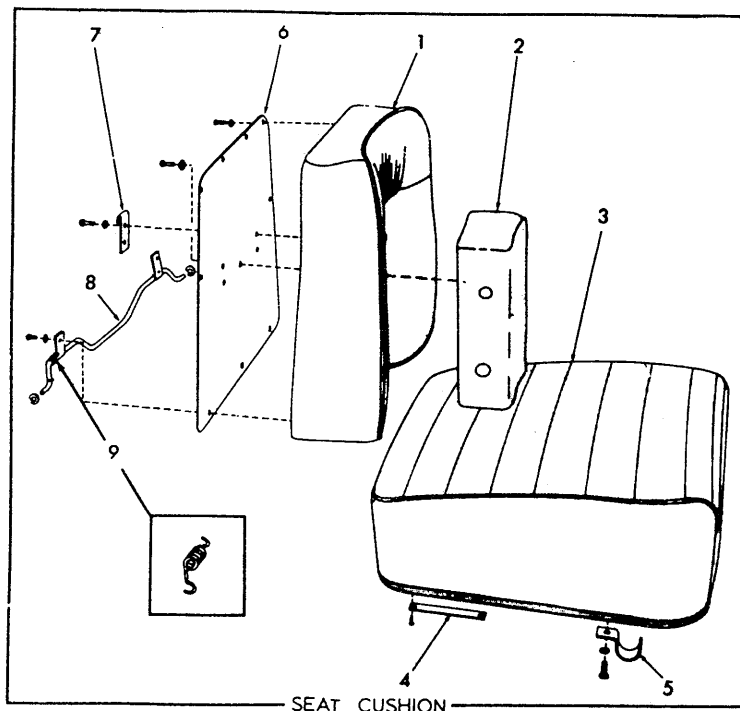
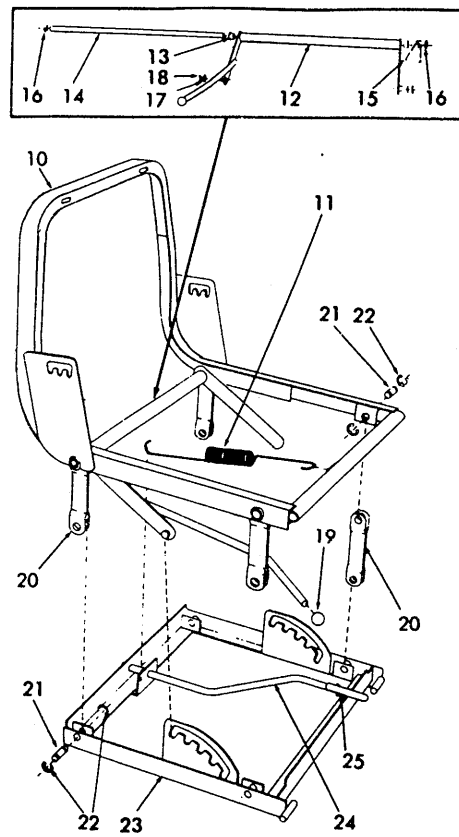


SEAT

T-75148

SEAT

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	SEAT ASSEMBLY (See pages 249 and 249A)
2	70660637	1	ANGLE, seat supporting, front
3	70915987	1	CAPSCREW, 1/2"NC x 1-1/2"
4	70916317	1	CAPSCREW, 1/2"NC x 2-3/4"
	70911028	1	NUT, 1/2"NC
	70064531	3	WASHER, plain
	70904208	2	LOCKWASHER, 1/2"
5	70661658	1	CHANNEL, seat supporting, rear
6	70916313	3	CAPSCREW, 1/2"NC x 1-3/4"
	70064531	5	WASHER, plain
	70904208	3	LOCKWASHER, 1/2"
	70911028	2	NUT, 1/2"NC
7	70660680	1	BRACKET, channel supporting
8	70916314	2	CAPSCREW, 1/2"NC x 2"
	70904208	2	LOCKWASHER, 1/2"
	70064531	2	WASHER, plain
9	70666235	1	SUPPORT, seat
10	70916313	3	CAPSCREW, 1/2"NC x 1-3/4"
	70064531	3	WASHER, plain
	70904208	3	LOCKWASHER, 1/2"
	70911028	3	NUT, 1/2"NC
11	70666240	1	PLATE, seat support spacing
12	70632179	1	CUSHION, arm rest, left side
13	70919331	4	CAPSCREW, 3/8"NF x 1" } Plated
	70916965	4	LOCKWASHER 3/8" }
	70920743	4	WASHER, plain }
14	70632188	1	CUSHION, arm rest, right side
15	70919331	4	CAPSCREW, 3/8"NF x 1" } Plated
	70916965	4	LOCKWASHER, 3/8" }
	70920743	4	WASHER, plain }
16	70660687	1	SUPPORT, right arm rest cushion
17	70915987	2	CAPSCREW, 1/2"NC x 1-1/2"
18	70916313	2	CAPSCREW, 1/2"NC x 1-3/4"
	70904208	4	LOCKWASHER, 1/2"
	70064531	4	WASHER, plain
19	70660678	1	ANGLE, bracing, right arm rest support
20	70916271	2	CAPSCREW, 3/8"NC x 1"
21	70919225	2	CAPSCREW, 3/8"NC x 1-3/8"
	70044973	6	WASHER, plain
	70904206	4	LOCKWASHER, 3/8"
	70911026	4	NUT, 3/8"NC
22	70680080	1	BELT, safety (Special equipment. Not illustrated)



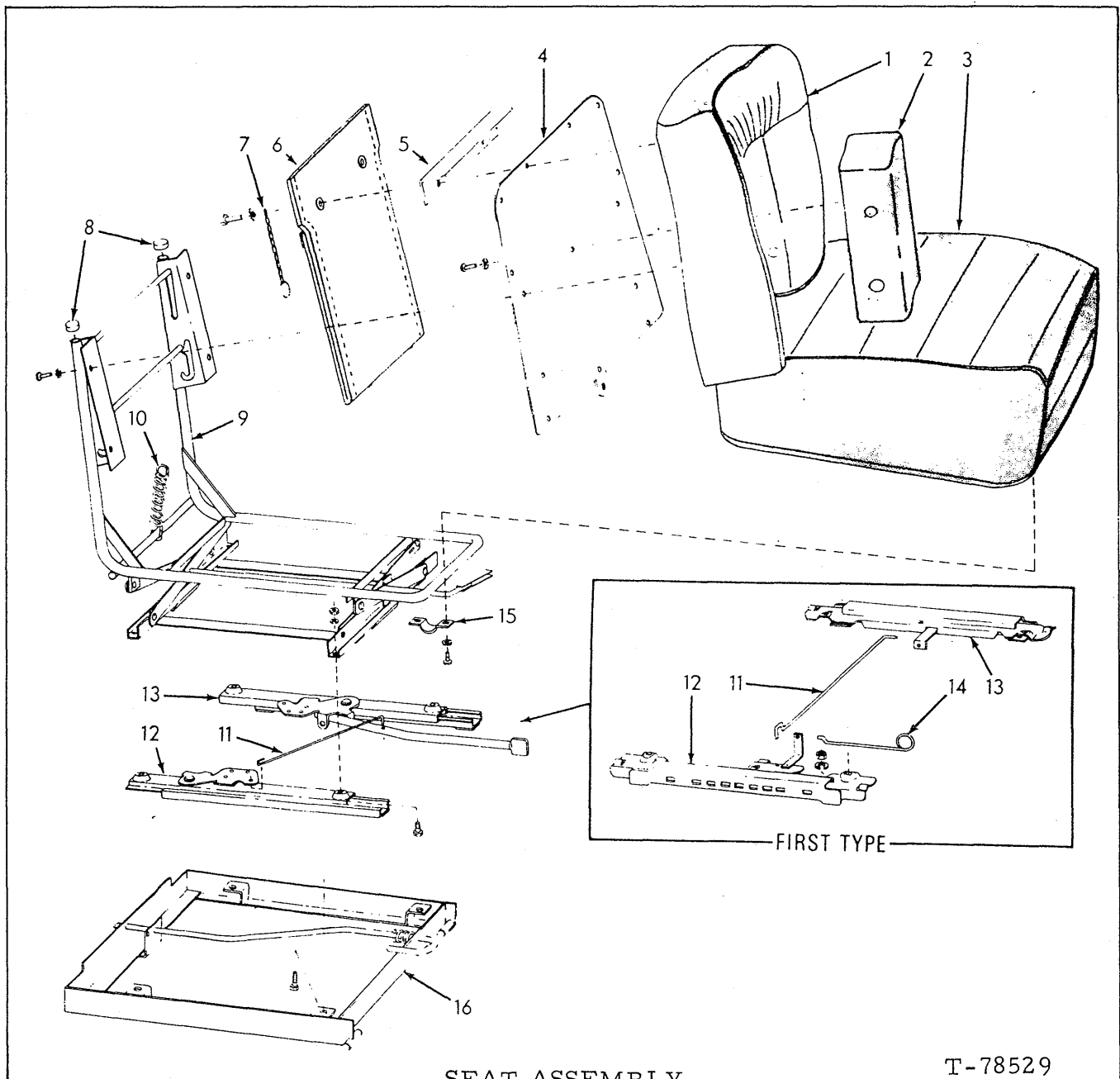
SEAT ASSEMBLY

T-71877

SEAT ASSEMBLY

USAGE: See page 247. Tractors prior to serial No. 10S20171

ITEM	PART NO.	QTY.	DESCRIPTION
-	70659093	1	SEAT ASSY. (Includes items 1 thru 25)
1	{ 70638422	1	CUSHION, back (outside section)
	{ 70642499	1	COVER, slip, back cushion (Includes fastenings)(Not original equipment)
2	{ 70638421	1	CUSHION, back (center section)
	{ 70916532	2	SCREW, machine, rd-hd., 1/4" NC x 3/4"
	{ 70914105	2	LOCKWASHER, ext-tooth, 1/4"
	{ 70642498	1	COVER, slip, back cushion (Includes fastenings)(Not original equipment)
3	{ 70659102	1	CUSHION ASSY., seat (Includes item 4)
	{ 70642500	1	COVER, slip, seat cushion (Includes fastenings)(Not original equipment)
4	70638431	2	PLATE, bearing, seat cushion
	-----	4	SCREW, wood, fl-hd., #8 x 1/2" (Procure locally)
5	70638432	2	BRACKET, pivot, seat cushion
	70916532	2	SCREW, machine, rd-hd., 1/4" NC x 3/4"
	70914105	2	LOCKWASHER, ext-tooth, 1/4"
6	70650143	1	PLATE, reinforcing, back cushion
	70916532	8	SCREW, machine, rd-hd., 1/4" NC x 3/4"
	70914105	8	LOCKWASHER, ext-tooth, 1/4"
7	70650132	2	BRACKET, retaining, back cushion
	70916532	4	SCREW, machine, rd-hd., 1/4" NC x 3/4"
	70914105	4	LOCKWASHER, ext-tooth, 1/4"
8	70650141	1	ROD ASSY., back cushion adjustment (Includes mounting clips)
	70916532	2	SCREW, machine, rd-hd., 1/4" NC x 3/4"
	70914105	2	LOCKWASHER, ext-tooth, 1/4"
	70928197	2	RING, retaining
9	70650137	1	SPRING, back cushion adjustment rod
10	70650144	1	FRAME, seat
11	70650138	1	SPRING, retracting, seat frame
12	70650142	1	LATCH, seat adjustment
13	70650146	2	BEARING, seat adjustment latch
14	70650136	1	SHAFT, seat adjustment latch
15	70650135	1	SPRING, seat adjustment latch
16	70638351	2	RING, snap, seat adjustment latch shaft
17	70188436	2	WASHER, seat adjustment latch
18	70650147	2	RING, snap, seat adjustment latch
19	70650133	1	KNOB, seat adjustment latch
20	70650139	4	LINK, suspension, seat frame
21	70650131	6	PIN, seat frame suspension link
22	70638351	12	RING, snap, suspension link pin
23	70650145	1	FRAME ASSY., base (Includes items 24 and 25)
24	70650140	1	ROD, seat release
	70188436	1	WASHER, plain
	70924169	2	PIN, groove, 1/8" x 1"
25	70650134	1	SPRING, seat release rod



USAGE: See page 247. Tractor serial No. 10S20171 and up.

* First type
 ** Second type
 *** Third type

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
-	70690729	1	-	-	SEAT ASSY. (Includes items 1 thru 4, 8, 9, and 11 thru 15)
-	73108384	-	1	-	SEAT ASSY. (Includes items 1 thru 15)
-	73113527	-	-	1	SEAT ASSY. (Includes items 1 thru 13 and 15)
1	70695306	1	1	1	CUSHION
	70916532	8	6	-	SCREW, machine, rd.-hd., 1/4"NC x 3/4"
	70921615	-	-	6	SCREW, button-hd., hex-skt., 1/4"NC x 3/4"
	70914105	8	8	8	LOCKWASHER, ext.-tooth, 1/4"

(Continued)

(Revised August 1979)

SEAT ASSEMBLY (Continued)

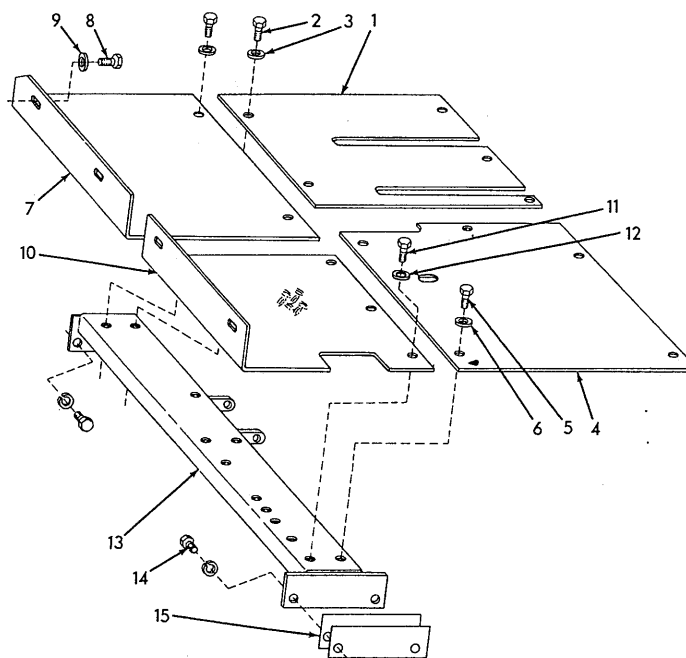
ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	*	***	
2	70695303	1	1	1	CUSHION
	70916532	2	2	-	SCREW, machine, rd.-hd., 1/4"NC x 3/4"
	70921615	-	-	2	SCREW, button-hd., hex-skt., 1/4"NC x 3/4"
	70914105	2	2	2	LOCKWASHER, ext.-tooth, 1/4"
3	70694307	1	1	1	CUSHION
4	70695785	1	-	-	PLATE
	73108830	-	1	1	PLATE
	70916532	4	4	-	SCREW, machine, rd.-hd., 1/4"NC x 3/4"
	70921615	-	-	4	SCREW, button-hd., hex-skt., 1/4"NC x 3/4"
	70914105	4	4	4	LOCKWASHER, ext.-tooth, 1/4"
5	-----	-	1	1	ANGLE
6	-----	-	1	1	POUCH
	-----	-	2	2	CAPSCREW
7	-----	-	1	1	CHAIN ASSY.
8	70694784	2	2	2	CAP
9	70694305	1	1	-	FRAME ASSY. (Serviced only as a unit)
	70924433	4	4	-	NUT, lock, 5/16"NC
	73113740	-	-	1	FRAME ASSY. (Serviced only as a unit)
	70921566	-	-	4	CAPSCREW, 5/16"NC x 1"
	70900366	-	-	4	NUT, 5/16"NC
10	-----	-	1	1	SPRING (Not serviced separately)
11	70694781	1	1	-	ROD
	73113741	-	-	1	ROD
12	-----	1	1	1	SLIDE
13	-----	1	1	1	SLIDE
14	70694782	1	1	-	WIRE
15	70694783	2	4	4	BRACKET
	70916532	4	8	-	SCREW, machine, rd.-hd., 1/4"NC x 3/4"
	70921615	-	-	8	SCREW, button-hd., hex-skt., 1/4"NC x 3/4"
	70914105	4	8	8	LOCKWASHER, ext.-tooth, 1/4"
16	70696162	1	1	1	BASE
	70922925	4	4	4	CAPSCREW, 5/16"NC 3/4"
	70677005	4	4	4	WASHER
	70911025	4	4	4	NUT, 5/16"NC
17	70695868	1	1	-	SLIDE KIT
	73113745	-	-	1	SLIDE KIT
18	73109343	-	1	1	POUCH KIT (Includes items 5, 6 and 7)

See item 18

Order item 17

Each includes items 12 and 13

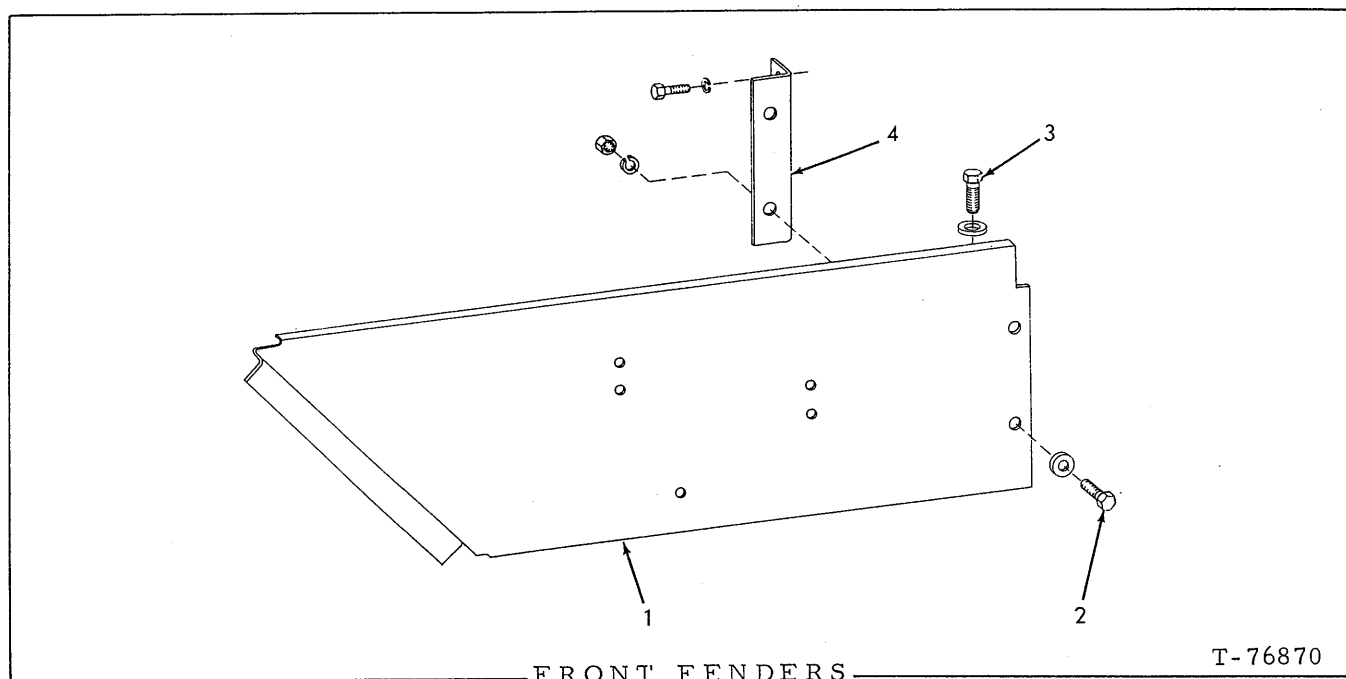
(Revised August 1979)



T-79192

FLOOR

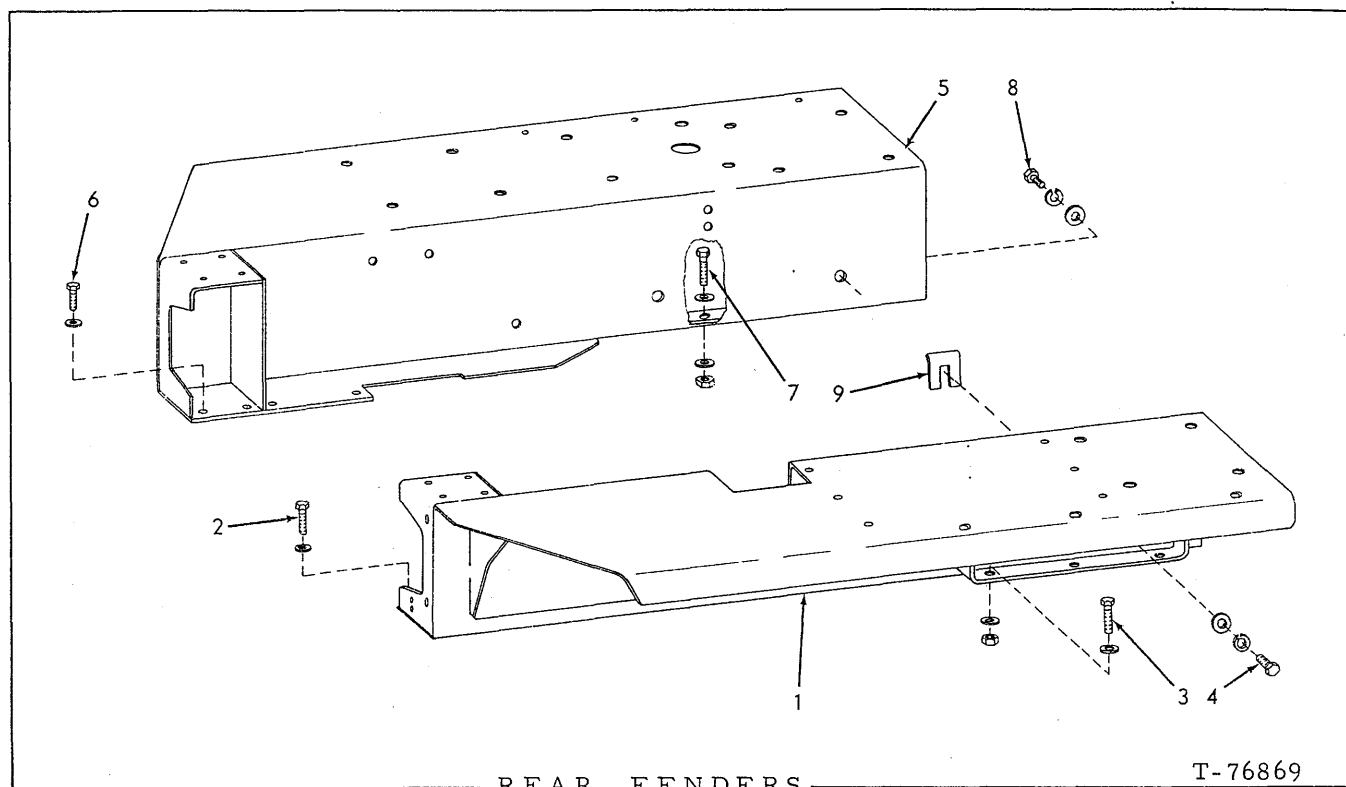
ITEM	PART NO.	QTY.	DESCRIPTION
1	70655449	1	PLATE, left front
2	70920574	5	CAPSCREW, 1/2"NC x 1-3/8"
3	70677008	5	WASHER, plain
4	70654087	1	PLATE, right front (Standard)
	70645229	1	PLATE, right front. (Used on units equipped with special Air Cleaner Unloader Extension)
5	70920582	1	CAPSCREW, 1/2"NC x 1-1/4"
6	70677008	4	WASHER, plain
7	70660624	1	PLATE, left rear
8	70920583	4	CAPSCREW, 1/2"NC x 1-1/2"
9	70677008	4	WASHER, plain
10	70654080	1	PLATE, right rear (Tractors prior to unit #19110)
	70669121	1	PLATE, right rear (Tractor unit #19110 and up)
11	70920583	5	CAPSCREW, 1/2"NC x 1-1/2"
12	70677008	5	WASHER, plain
13	70654072	1	CHANNEL, supporting (Tractors prior to unit #19110)
	70669127	1	CHANNEL, supporting (Tractor unit #19110 and up)
14	70920585	4	CAPSCREW, 1/2"NC x 1-3/4"
	70912441	4	LOCKWASHER, 1/2"
15	70665791	4	SHIM, channel spacing (1/32" thick. Use as required)
	70665790	1	SHIM, channel spacing (1/8" thick. Use as required)



*Tractors prior to serial No. 16550; also tractor serial
No. 10S16551 thru 10S17001
**Tractor serial No. 10S17001 and up

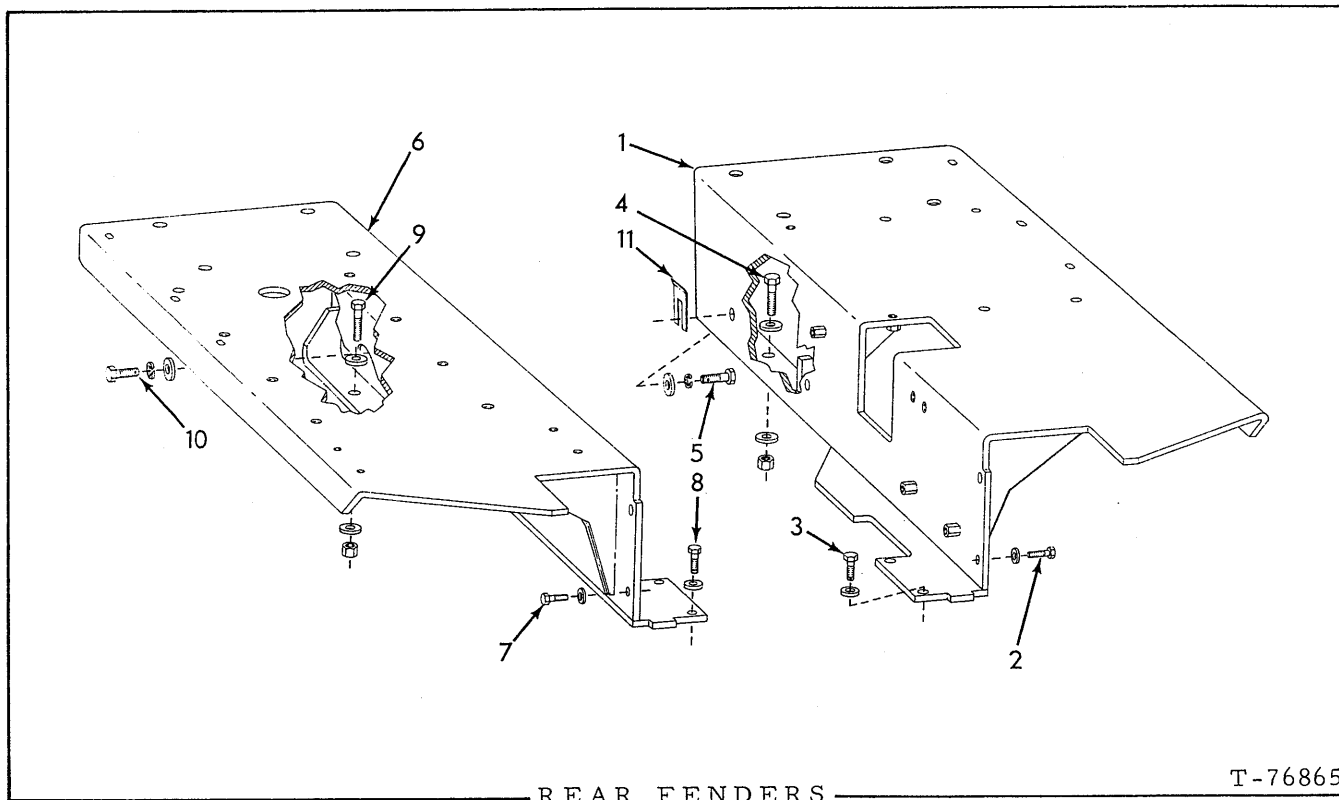
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70660179	1	-	FENDER, left side
	70669387	-	1	FENDER, left side
	70660180	1	-	FENDER, right side
	70669388	-	1	FENDER, right side
2	70920583	4	4	CAPSCREW, 1/2"NC x 1-1/4"
	70677008	8	8	WASHER, plain
3	70911028	4	4	NUT, 1/2"NC
	70927519	6	6	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	70677010	6	6	WASHER, plain
4	70661082	2	-	ANGLE, fender bracing
	70669386	-	2	ANGLE, fender bracing
	70920583	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70677008	4	4	WASHER

(Revised May 1976)



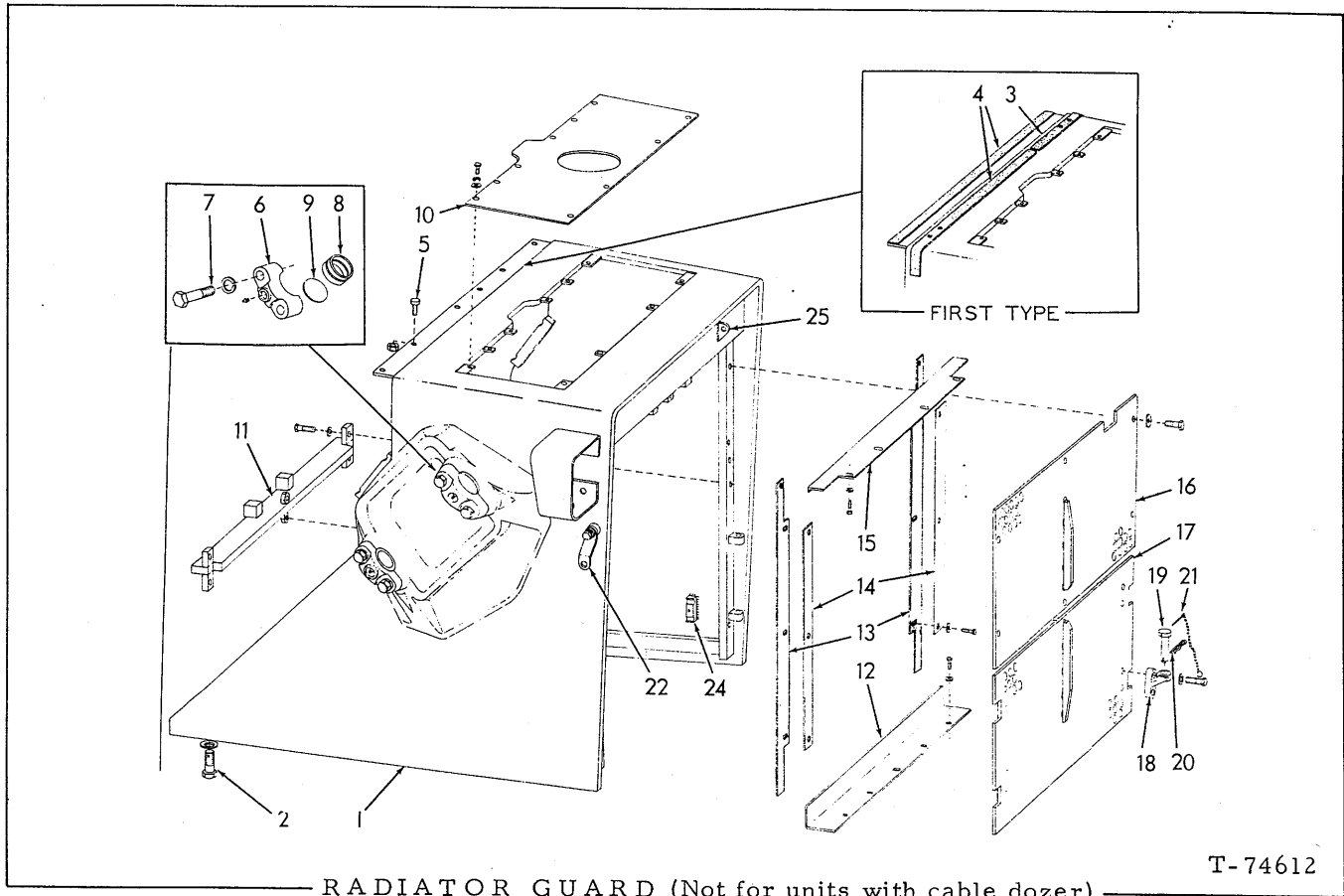
USAGE: Tractors prior to serial No. 10S17001

ITEM	PART NO.	QTY.	DESCRIPTION
1	70654020	1	FENDER, left side
2	70926774	4	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	70064810	4	WASHER, plain
3	70921171	3	CAPSCREW, 3/4"NF x 2-3/4"
4	70929066	2	CAPSCREW, Nylok, 3/4"NF x 2-1/4"
	70677012	8	WASHER, plain
	70012767	3	NUT, 3/4"NF
5	70654688	1	FENDER, right side (For standard units or units equipped with hydraulic dozer)
	70654090	1	FENDER, right side (For units equipped with cable dozer)
6	70926774	4	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	70064810	4	WASHER, plain
7	70921171	3	CAPSCREW, 3/4"NF x 2-3/4"
8	70 929066	2	CAPSCREW, Nylok, 3/4"NF x 2-1/4"
	70677012	8	WASHER, plain
	70012767	3	NUT, 3/4"NF
9	70670430	-	SPACER, shimming (Use as required)



USAGE: Tractors serial No. 10S17001 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	70686371	1	FENDER, left side
2	70922509	2	CAPSCREW, Nylok, 1/2"NC x 1-3/4"
	70064531	2	WASHER, plain
3	70926774	2	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	70064810	2	WASHER, plain
4	70921171	3	CAPSCREW, 3/4"NF x 2-3/4"
5	70929066	2	CAPSCREW, Nylok, 3/4"NF x 2-1/4"
	70677012	8	WASHER, plain
	70012767	3	NUT, 3/4"NF
6	70686372	1	FENDER, right side (For standard units or units equipped with hydraulic dozer)
	70669482	1	FENDER, right side (For units equipped with cable dozer)
7	70922509	2	CAPSCREW, Nylok, 1/2"NC x 1-3/4"
	70064531	2	WASHER, plain
8	70926774	2	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	70064810	2	WASHER, plain
9	70921171	3	CAPSCREW, 3/4"NF x 2-3/4"
10	70929066	2	CAPSCREW, Nylok, 3/4"NF x 2-1/4"
	70677012	8	WASHER, plain
	70012767	3	NUT, 3/4"NF
11	70670430	-	SPACER, shimming (Use as required)



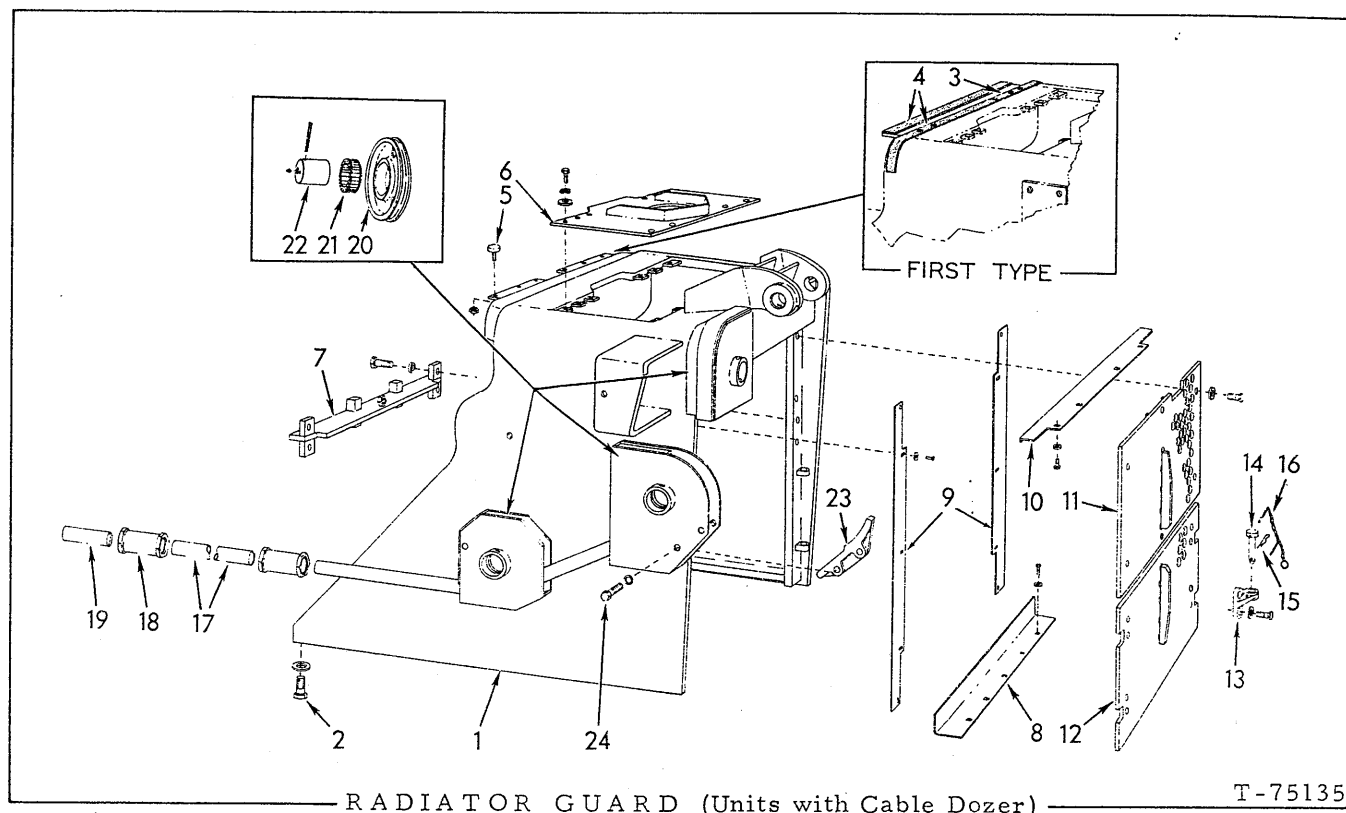
RADIATOR GUARD (Not for units with cable dozer)

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70677988	1	GUARD, radiator (With dozer)	} Tractors prior to unit #18567. For Tractors prior to unit #17699 also order 7 each of item 5
	70677989	1	GUARD, radiator (Without dozer)	
	70679767	1	GUARD, radiator (Tractors unit #18567 and up)	
2	70926567	12	CAPSCREW, Nylok, 1-1/4"NC x 3"	
	70928453	12	WASHER, plain	
3	70667506	1	PAD, friction (plastic, 20" long)	} See item 23. For tractors prior to unit #17699
4	70667507	2	PAD, friction (plastic, 40" long)	
5	70677885	7	BUTTON, bumper, hood	} For tractors unit #17699 and up
	70917730	7	NUT, elastic stop, 1/4"NC	
6	70085140	4	CAP, trunnion	
	70914465	4	FITTING, lubricating, straight, 1/8"NPT	
7	70927479	8	CAPSCREW, 1"NF x 4-1/4"	
	70910916	8	LOCKWASHER, 1"	
8	70084581	4	BUSHING, trunnion	
9	70084612	4	PLATE, retaining, trunnion bushing	
10	70669368	1	COVER, top closure	
	70922763	10	Capscrew, 3/8"NC x 1"	
	70683421	10	WASHER, plain	
11	70667511	1	BAR, front closure plate supporting	
	70921556	4	CAPSCREW, 1/2"NC x 2"	
	70677008	4	WASHER, plain	
12	70663249	1	BAFFLE, air, lower	
	70921076	5	CAPSCREW, 3/8"NC x 1-1/4"	
	70677006	5	WASHER, plain	

(Continued)

RADIATOR GUARD (Not for units with cable dozer)(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
13	70661955	2	BAFFLE, air, side (rubber)
14	70668469	2	STRIP, re-enforcing, baffle
	70921076	6	CAPSCREW, 3/8"NC x 1-1/4"
	70677006	6	WASHER, plain
15	70661137	1	BAFFLE, air, upper
	70922763	4	CAPSCREW, 3/8"NC x 1"
	70677006	4	WASHER, plain
16	70667518	1	PLATE, front closure, upper (standard)
	70926774	6	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	70677010	6	WASHER, plain
	70673184	1	PLATE, front closure, upper (heavy-duty) (Special equipment)
	70924676	6	CAPSCREW, Nylok, 5/8"NC x 2"
17	70667520	1	PLATE, front closure, lower (standard)
	70673186	1	PLATE, front closure, lower (heavy-duty)(Special equipment)
	70673370	1	PLATE, front closure, lower (slot-type)(Special equipment)
18	70667159	4	BRACKET, hinge, bottom closure plate
	70922509	8	CAPSCREW, Nylok, 1/2"NC x 1-3/4"
	70677008	8	WASHER, plain
19	70643124	4	PIN, hinge
20	70920570	4	PIN, hinge pin retaining
21	70643229	4	CHAIN ASSY., hinge pin (Serviced only as a unit)
22	70660513	2	STRAP, cylinder tie-down (Used only when transporting tractor with dozer blade removed)
	70920582	2	CAPSCREW, 1/2"NC x 1-3/8" } To RADIATOR GUARD
	70677008	2	WASHER, plain
	70921455	2	CAPSCREW, 5/8"NC x 4-1/2" } To CYLINDERS
	70914501	2	NUT, 5/8"NC
23	70667082	1	CEMENT, adhesive, 4oz. can (Use to apply hood friction pads)
24	70659326	1	CLAMP, tube } Requires welding to install
25	70668813	1	LUG



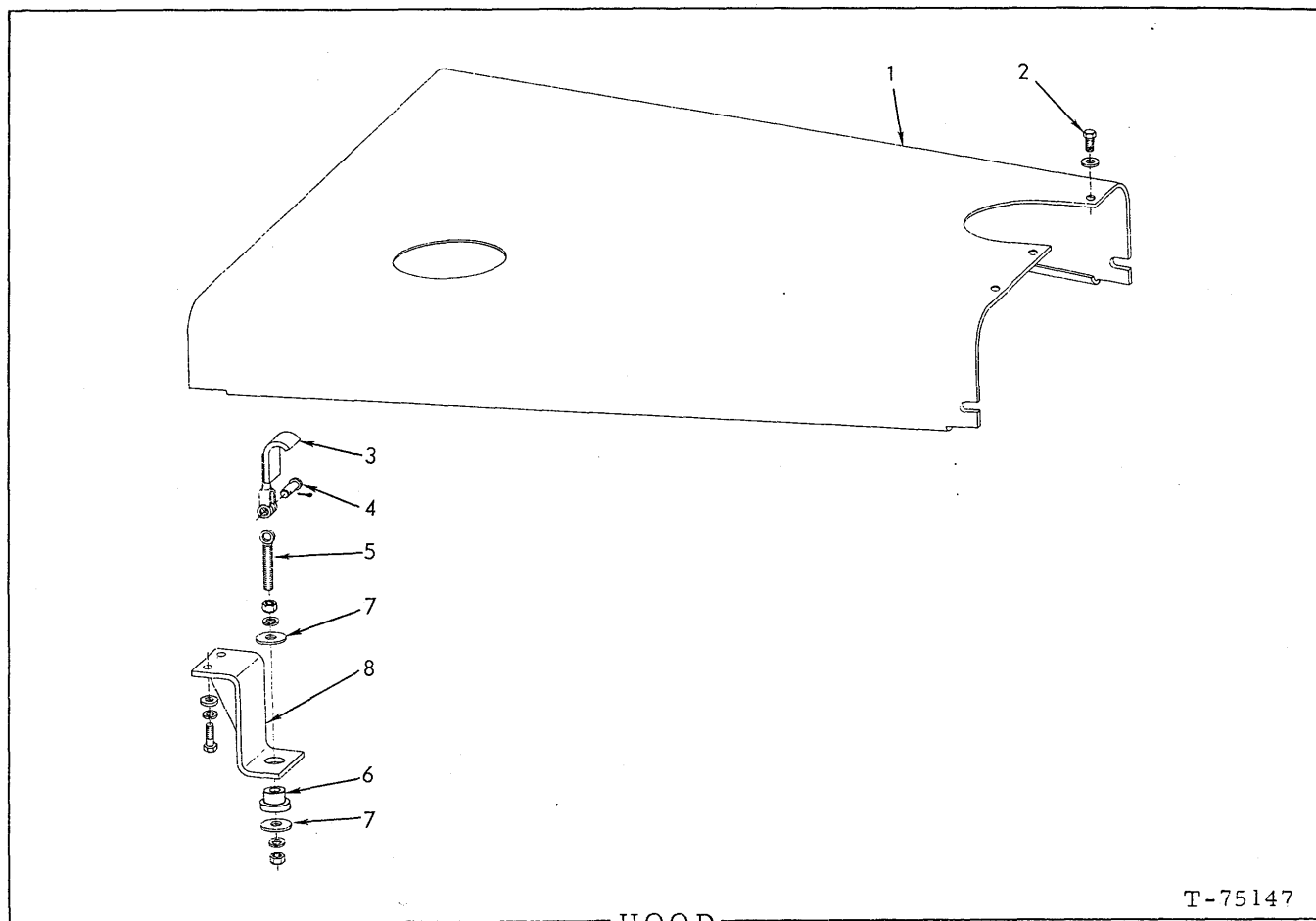
ITEM	PART NO.	QTY.	DESCRIPTION
1	70669721	1	GUARD, radiator (Tractors prior to unit #17699)
	70677991	1	GUARD, radiator (Tractors unit #17699 thru #18043)
	70679768	1	GUARD, radiator (Tractors unit #18044 and up)
2	70926567	12	CAPSCREW, Nylok, 1-1/4"NC x 3"
	70928453	12	WASHER, plain
3	70667506	1	PAD, friction (plastic, 20" long)
4	70667507	2	PAD, friction (plastic, 40" long)
5	70677885	7	BUTTON, bumper, hood
	70917730	7	NUT, elastic stop 1/4"NC
6	70669368	1	COVER, top closure
	70922763	10	CAPSCREW, 3/8"NC x 1"
	70683421	10	WASHER
7	70667511	1	BAR, front closure plate supporting
	70921556	4	CAPSCREW, 1/2"NC x 2"
	70677008	4	WASHER, plain
8	70663249	1	BAFFLE, air, lower
	70921076	5	CAPSCREW, 3/8"NC x 1-1/4"
	70677006	5	WASHER, plain
9	70661955	2	BAFFLE, air, side
	70921076	6	CAPSCREW, 3/8"NC x 1-1/4"
	70677006	6	WASHER, plain

(Continued)

(Revised May 1976)

RADIATOR GUARD (Units with Cable Dozer)(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
10	70661137	1	BAFFLE, air, upper
	70922763	4	CAPSCREW, 3/8"NC x 1"
	70677006	4	WASHER, plain
11	70660845	1	PLATE, front closure, upper
	70926774	6	CAPSCREW, Nylok, 5/8"NC x 1-3/4"
	70677010	6	WASHER, plain
12	70660846	1	PLATE, front closure, lower
13	70667159	4	BRACKET, hinge, bottom closure plate
	70922509	8	CAPSCREW, Nylok, 1/2"NC x 1-3/4"
	70677008	8	WASHER, plain
14	70643124	4	PIN, hinge
15	70920570	4	PIN, hinge pin retaining
16	70643229	4	CHAIN ASSY., hinge pin (Serviced only as a unit)
17	70660177	1	PIPE, cable protecting (33" long)(Tractors prior to #17001)
	70669431	1	PIPE, cable protecting, front (31-3/4" long)(Tractors #17001 and up)
18	70665394	2	COUPLING ASSY., pipe (Includes nuts and seals)
19	70669430	1	PIPE, cable protecting, rear (11-3/4" long)(Tractors #17001 and up)
20	70084758	3	SHEAVE, control cable (See SHEAVE BLOCKS AND CABLE for sheaves which conducts cable to moldboard)
21	70044875	3	BEARING, roller, cable sheave
22	70665364	3	SHAFT, sheave
	70917936	3	PIN, spring, 3/8" x 3-1/2"
	70914465	3	FITTING, lubricating, straight, 1/8"NPT
23	70084694	1	GUIDE, cable
24	70921174	2	CAPSCREW, 5/8"NC x 2-1/2"
	70912942	2	LOCKWASHER, 5/8"
25	70667082	1	CEMENT, adhesive, 4 oz. can (Use to apply hood friction pads)



HOOD

T-75147

*Tractors prior to serial No. 16550; also tractor serial No. 10S16551 thru 10S18043

** Tractors serial No. 10S18044 thru 10S19644 including Nos. 10S19647 and 10S19648

*** Tractors serial No. 10S19645 and up excluding Nos. 10S19647 and 10S19648

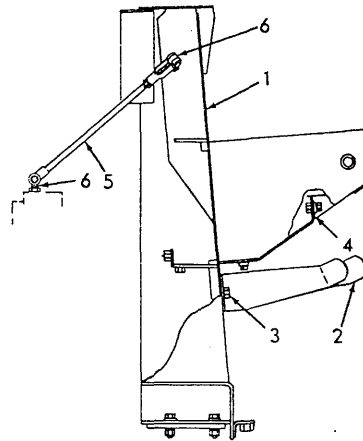
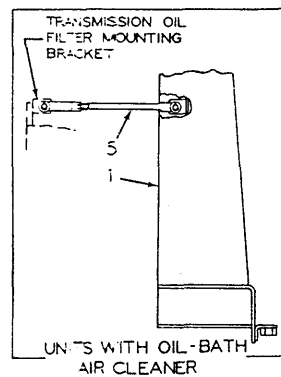
ITEM	PART NO.	QUANTITY			DESCRIPTION	
		*	**	***		
1	70665680	1	-	-	HOOD, engine	Standard (Tractors without muffler)
	70679741	-	1	-	HOOD, engine	
	70692052	-	-	1	HOOD, engine, Standard	
	70663594	1	-	-	HOOD, engine	For units equipped with special oil-bath air cleaner
	70679743	-	1	-	HOOD, engine	
	70665809	1	-	-	HOOD, engine	Units with special air and exhaust extension stacks
	70679742	-	1	-	HOOD, engine	
2	70928873	5	5	5	CAPSCREW, Nylok, 1/2" NC x 1"	2 less required on units with special air and exhaust extensions
	70929379	5	5	5	WASHER, plain	
3	70664624	2	2	2	HOOK, hold-down	
4	70917648	2	2	2	PIN, hold-down hook	
	70900806	2	2	2	PIN, cotter	

(Continued)

HOOD (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
5	70668541	2	2	2	ROD, hold-down hook
	70904208	4	4	4	LOCKWASHER, 1/2"
	70911035	2	2	2	NUT, jam, 1/2"NC
6	70642441	2	2	2	SNUBBER, vibration, hold-down
7	70929380	4	4	4	WASHER, plain
8	70667475	2	2	2	BRACKET, mounting, hold-down
	70920583	4	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70912441	4	4	4	LOCKWASHER, 1/2"
	70677008	4	4	4	WASHER, plain

NOTE: See PAINTING AND MARKING for transfers



T-75146

COWL

*Standard. Units with dry-type air cleaner
 **Special. Units with oil-bath air cleaner

ITEM	PART NO.	QTY. * **		DESCRIPTION
1	70658632	1	-	COWL
	70661772	-	1	COWL
	70669475	1	-	COWL
	70669890	-	1	COWL
	70673536	1	-	COWL (Tractor unit #17501 thru #18574)
	70673542	-	1	COWL (Tractor unit #17501 and up)
	70686056	1	-	COWL (Tractor unit #18575 thru #20291)
	70695320	1	-	COWL (Tractor unit #20292 and up)
	70920582	8	8	CAPSCREW, 1/2"NC x 1-1/4"
	70677008	8	8	WASHER, plain
	70912441	8	8	LOCKWASHER, 1/2"
	70911028	8	8	NUT, 1/2"NC (Tractors prior to unit #17001)
2	70658139	1	-	REST, right foot
3	70920582	2	-	CAPSCREW, 1/2"NC x 1-1/4"
	70912441	2	-	LOCKWASHER, 1/2"
4	70656921	1	1	COVER, access
	70922763	2	2	CAPSCREW, 3/8"NC x 1"
	70677006	2	2	WASHER, plain
5	70041507	1	-	ROD, cowl bracing
	70661776	-	1	ROD, cowl bracing
	70913830	1	1	NUT, jam, 1/2"NF
	70917666	1	1	YOKE, rod end, adjustable, 1/2"NF
	70917648	2	2	PIN, yoke, 1/2" diam.
	70900806	2	2	PIN, cotter, 1/8" x 1"
6	70667406	2	-	ROD
	70911035	2	-	NUT, jam, 1/2"NC
	70912441	1	-	LOCKWASHER, 1/2"
	70911028	1	-	NUT, 1/2"NC

NOTE: See PAINTING AND MARKING for transfers

(Revised May 1976)

PAINTING AND MARKING
(Not Illustrated)

ITEM	PART NO.	QTY.	DESCRIPTION
<u>NOTE</u> : Approximately 16 gallons paint required for spraying			
1	70925109	-	ENAMEL, yellow, quart can
2	70925110	-	ENAMEL, yellow, gallon can
3	70925108	-	ENAMEL, yellow, 12 oz. pressurized spray-type can
<u>NOTE</u> : All plates and transfers listed below are English Language printings unless otherwise indicated.			
4	70664188	1	PLATE, lubrication and service guide (7" x 10")(Tractors prior to unit #20127)
	70696856	1	PLATE, lubrication and service guide (7" x 10")(Tractor unit #20127 and up)
	70664189	1	PLATE, lubrication and service guide (multi-language, 7" x 12-7/8")
	70034076	4	SCREW, thd-cutting, cross-recessed-hd., #8 x 1/2" (2 additional required for multi-language plate)
5	70669788	1	PLATE, warning, brake (4-1/4" x 5")(Attached to top of steering lever housing)(Units with Automatic Safety Brakes)
	70667207	1	PLATE, warning, brake (3-1/8" x 4")(Attached to top of steering lever housing)(Units without Automatic Safety Brakes)
	70034076	4	SCREW, thd-cutting, cross-recessed-hd., #8x1/2"
6	70621357	1	TRANSFER, lubrication certification (3-7/8" x 6-3/4") (Applied to front of battery box)
7	70650587	1	TRANSFER, turbocharger altitude warning (1-3/4" x 3-1/2")(Applied to top of steering lever housing) (Tractors prior to March 1972)
8	70666497	1	TRANSFER, instruction, engine operation (2-1/4" x 4-1/2")(Applied to top of steering lever housing) (Engines prior to S/N 21-12692)
	70688188	1	☐ TRANSFER, instruction, engine operation (4" x 6") (Applied to left side of steering lever housing) (Effective on Engine S/N 21-12692)
9	70644616	1	TRANSFER, instruction, 1st stage fuel filter (1-3/4" x 2-1/4")(Applied to filter)(Tractors prior to unit #19001)
	70677914	1	☐ TRANSFER, instruction, 1st stage fuel filter (2-1/4" x 3-3/4")(Applied to filter)(Tractors #19001 and up)
10	70644619	1	TRANSFER, instruction, 2nd stage fuel filter (1-3/4" x 2-1/4")(Applied to filter)(Tractors prior to unit #19001)
	70677914	1	TRANSFER, instruction, 2nd stage fuel filter (2-1/4" x 3-3/4")(Applied to filter)(Tractors unit #19001 and up)
11	70621343	2	☐ TRANSFER, instruction, oil filter (2-5/16" x 3-1/4") (Applied to engine oil filter)
12	70659539	1	TRANSFER, warning, by-pass oil filter (Includes Portuguese translation, 2" x 10")(Applied to FILTER ASSY. 74390593)
	70659538	1	TRANSFER, warning, by-pass oil filter (French and Spanish translations, 2" x 10")(Applied to FILTER ASSY. 74390593)

(Continued)

(Revised May 1976)

PAINTING AND MARKING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
13	70632226	2	TRANSFER, instruction, steering pressure line oil filter (1-3/4" x 2-1/4")(Applied to filters)(Tractors prior to unit #19111)
	70685142	2	☐ TRANSFER, instruction, steering pressure line oil filter (1-3/4" x 2-1/4")(Tractor unit #19111 thru #20126)
	70695034	2	TRANSFER, instruction, steering pressure line oil filter (1-3/4" x 2-1/4")(Tractor unit #20127 and up)
14	70644534	1	TRANSFER, instruction, transmission oil filter (1-3/4" x 2-1/4")(Applied to filter)(Tractors prior to unit #17197)
	70658630	1	TRANSFER, instruction, transmission oil filter (1-3/4" x 2-1/4")(Applied to filter)(Tractors unit #17197 thru #19110)
	70682127	1	☐ TRANSFER, instruction, transmission oil filter (1-3/4" x 2-1/4")(Tractor unit #19111 thru #20126)
	70658630	1	TRANSFER, instruction, transmission oil filter (1-3/4" x 2-1/4")(Applied to transmission oil filter (Tractor unit #20127 and up)
15	70621342	1	☐ TRANSFER, instruction, engine primer (1-3/4" x 6") (Applied to dash)
16	70659160	1	☐ TRANSFER, instruction, dry-type air cleaner (Applied to cleaner air inlet tube)
17	70656642	1	TRANSFER, instruction, oil-bath air cleaner (1-1/2" x 3-3/4")(Applied to cleaner)
18	70665147	1	TRANSFER, instruction, coolant filter (2-3/4" x 3-1/2") (Applied to filter)(Tractors prior to #16231)
	70669933	1	TRANSFER, instruction, coolant filter (2-3/8" x 3-1/2") (Applied to filter)(Tractors #16231 thru #19110)
	70685140	1	☐ TRANSFER, instruction, coolant filter (2-3/8" x 3-1/2") (Applied to filter)(Tractors #19111 thru #20126)
	70669933	1	TRANSFER, instruction, coolant filter (2-3/8" x 3-1/2") (Applied to filter)(Tractor unit #20127 and up)
19	70661227	3	TRANSFER, "HD-21" (Applied to rear of fuel tank, sides of battery box and sides of hydraulic tank or tool box)
	70694451	2	☐ TRANSFER, "HD-21B" (6" x 17")(Applied to outside of battery box and hydraulic tank)
20	70666405	3	TRANSFER, "SERIES B" (1-1/4" x 8-1/8")(Applied to rear of fuel tank, sides of battery box and sides of hydraulic tank or tool box)
21	70925158	2	TRANSFER, "21000-Mark II Power" (2" x 7-3/4") (Applied to sides of radiator guard)
22	70924552	2	TRANSFER, "ALLIS-CHALMERS" (2-3/8" x 39") (Applied to sides of hood)
	70694437	2	TRANSFER, "FIAT-ALLIS" (3-1/2" x 22-1/2") (Applied to sides of hood)
23	70924550	1	TRANSFER, "ALLIS-CHALMERS" (1-7/8" x 30") (Applied to front of radiator guard)
	70694436	1	TRANSFER, "FIAT-ALLIS" (3" x 20")(Applied to front of radiator guard)

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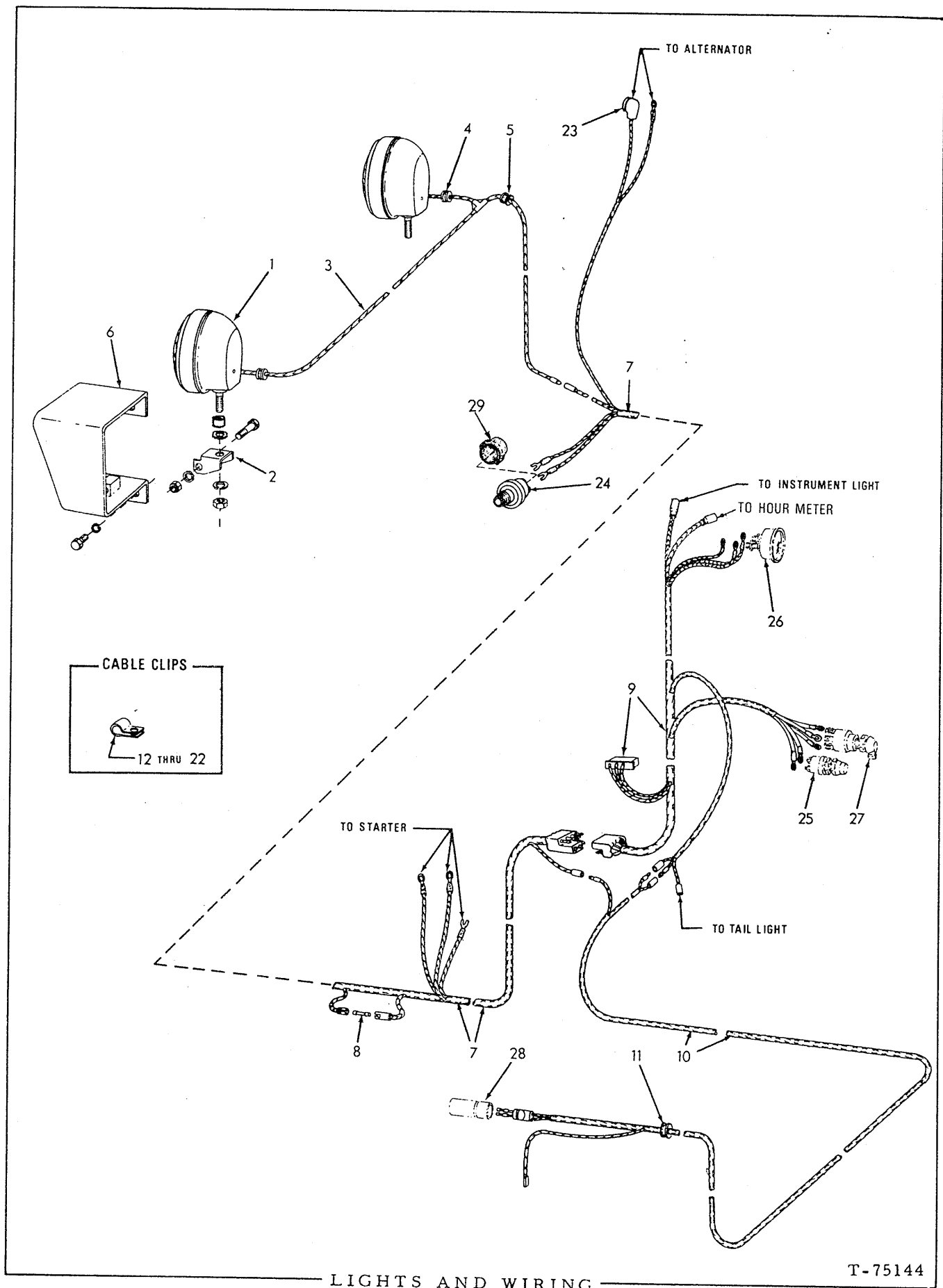
(Revised May 1976)

PAINTING AND MARKING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	70924555	1	☐ TRANSFER, "ALLIS-CHALMERS" (3-3/8" x 55") (Applied to rear of fuel tank)
	70924554	1	☐ TRANSFER, "ALLIS-CHALMERS" (3-1/16" x 50") (Applied to fuel tank rear center guard)
	70697242	1	☐ TRANSFER, "FIAT-ALLIS" (16" x 29-1/2") (Applied to rear of fuel tank) (Not used with Ripper)
25	70924320	1	TRANSFER, trademark (6-3/4", orange and black)
	70924541	1	TRANSFER, trademark (6-3/4", white) (Optional)
26	70924306	2	TRANSFER, "A-C" trademark (7-3/4", orange and black)
	70694424	2	☐ TRANSFER, "F-A" trademark 8" x 9")
	70924463	2	☐ TRANSFER, trademark (7-3/4", white) (Optional)
27	70682968	1	☐ TRANSFER, seat belt warning (2" x 3") (For units equipped with ROPS) (Applied to Cowl)
28	70681841	1	☐ TRANSFER, instruction, dozer hydraulic system filter (6" x 8") (Applied to hydraulic tank end) (Tractor unit #18567 thru #20126)
	70667810	1	TRANSFER, instruction, dozer hydraulic system filter (6" x 8") (Applied to hydraulic tank end) (Tractor unit #20127 and up)
29	70683962	1	☐ TRANSFER, neutral "creep" hazard warning (2" x 4-1/2") (Applied to Cowl)
30	70621358	1	☐ TRANSFER, patent plate (3-1/2" x 5-1/2") (Applied to left side of steering lever housing)
31	70694425	1	☐ TRANSFER, "F-A" trademark (9-1/2" x 10-3/4") (Applied to canopy right bracket) (Special equipment)
32	70695340	1	KIT, transfer (Includes items 8, 9, 11, 13 thru 16, 18, 19, 24, and 26 thru 31) (Tractors prior to unit #20127) (For later units order separately)
33	70694796	1	TRANSFER, ROPS (2-1/2" x 6") (Applied to ROPS canopy)
34	70697648	1	PLATE, operator warning (English, 2-1/4" x 4-1/2")
	70697963	1	PLATE, operator warning (Spanish, 2-1/4" x 4-1/2")
	70697964	1	PLATE, operator warning (Portuguese, 2-1/4" x 4-1/2")
	70697965	1	PLATE, operator warning (French, 2-1/4" x 4-1/2")
	70698053	1	PLATE, operator warning (Italian, 2-1/4" x 4-1/2")
	70698054	1	PLATE, operator warning (German, 2-1/4" x 4-1/2")
	70034076	4	SCREW, thd-cutting, #8 x 1/2"

Applied to rear
of fuel tankApplied to
side of
radiator
guardAttached
to top of
steering
lever
housing☐ Components of item 32

(Revised May 1976)



LIGHTS AND WIRING

△ Units with standard 20 amp. alternator
 △△ Units with optional 50 amp. alternator

ITEM	PART NO.	QTY. △ △△	DESCRIPTION	
1	-----	2 2	*LIGHT ASSY., head (See page 267 for parts)	} Standard on unit #18567 and up
	70910210	2 2	LOCKWASHER, ext-tooth, 1/2"	
	70904208	2 2	LOCKWASHER, regular, 1/2"	
	70911043	2 2	NUT, 1/2"NF	
	70669792	2 2	SPACER, head lights	
2	70076140	2 2	*BRACKET, head light mounting	} Tractors prior to unit #17001
	70916903	2 2	CAPSCREW, 5/8"NC x 3-1/2"	
	70904209	2 2	LOCKWASHER, 5/8"	
	70911029	2 2	NUT, 5/8"NC	
3	70659417	1 1	*CABLE, head light	
4 {	70926068	2 2	*GROMMET, head light cable (large)(Tractors prior to unit #17001)	
	70087855	2 2	GROMMET, head light cable (large)(Tractors unit #17001 thru #20134)	
	70696335	2 2	GROMMET, head light cable (large)(Tractor unit #20135 and up)	
5	70083987	1 1	*GROMMET, head cable (small)	} Tractors prior to unit #17001
6 {	70652591	1 1	*GUARD, left head light	
	70652592	1 1	*GUARD, right head light	
	70916308	6 6	CAPSCREW, 1/2"NC x 7/8"	
	70904208	6 6	LOCKWASHER, 1/2"	
7 {	70667626	1 -	HARNESS, wiring, front section (Tractors prior to unit #18575)	} Each includes item 8
	70682712	1 -	HARNESS, wiring, front section (Tractors unit #18575 and up)	
	70683147	- 1	HARNESS, wiring, front section	
	70917376	1 1	NUT, #12NC (Attaches harness to alternator)	
8	70208960	1 1	FUSE, cartridge type, 1/4" x 1-1/4" 20 amperes	
9 {	70664959	1 -	HARNESS, wiring, intermediate section (Tractors prior to unit #18575)	
	70682711	1 -	HARNESS, wiring, intermediate section (Tractors unit #18575 and up)	
	70680599	- 1	HARNESS, wiring, intermediate section (Tractors prior to unit #18575)	
	70682705	- 1	HARNESS, wiring, intermediate section (Tractors unit #18575 and up)	
	70653645	- 1	HARNESS, alternator and starter to ammeter, front section	
	70667573	- 1	HARNESS, alternator and starter to ammeter, rear section	
10 {	70660218	1 1	HARNESS, wiring, rear section (Tractors prior to unit #18575)	
	70682695	1 1	HARNESS, wiring, rear section (Tractors unit #18575 thru #20292)	
	70695608	- 1	HARNESS, wiring, rear section (Tractor unit #20292 and up)	
11	70180554	1 1	GROMMET, rear wiring harness (Tractors prior to unit #20292)	
12	70639388	8 8	*CLIP, rear wiring harness (5/16" DIAM., 9/32" bolt-hole)	
	70922300	3 3	CAPSCREW, 3/8"NF x 3/4"	
	70910287	3 3	LOCKWASHER, 3/8"	
	70677006	3 3	WASHER, plain	

(Continued)

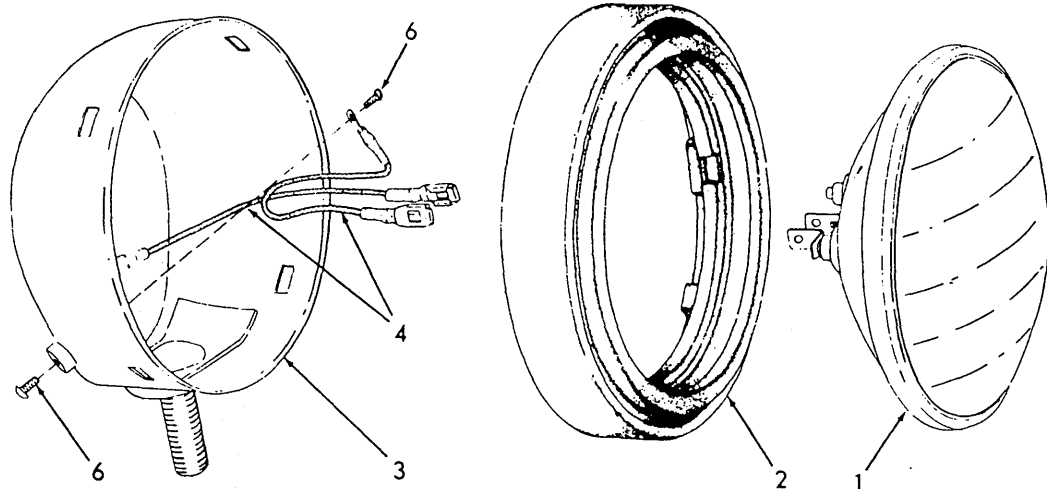
(Revised May 1976)

LIGHTS AND WIRING (Continued)

ITEM	PART NO.	QTY. Δ ΔΔ		DESCRIPTION
13	70640674	1	1	CLIP, rear wiring harness (5/16" diam., 9/32" bolt-hole)
14	70640676	2	2	CLIP, wiring harness (5/16" diam., 13/32" bolt-hole)
	70922262	1	1	CAPSCREW, 3/8"NC x 7/8"
	70677006	2	2	WASHER, plain
	70910287	1	1	LOCKWASHER, 3/8"
15	70644006	-	1	CLIP, front wiring harness (9/16" diam., 17/32" bolt-hole)
16	70637741	-	1	CLIP, front wiring harness (5/8" diam., 17/32" bolt-hole)
	70916310	-	1	CAPSCREW, 1/2"NC x 1"
	70904208	-	1	LOCKWASHER, 1/2"
	70910244	-	1	WASHER, plain
17	70639314	2	-	CLIP, wiring harness (3/8" diam., 13/32" bolt-hole)
	70922262	2	-	CAPSCREW, 3/8"NC x 7/8"
	70904206	1	-	LOCKWASHER, 3/8"
	70911026	2	-	NUT, 3/8"NC
	70677006	2	-	WASHER, plain
18	70927384	1	-	CLIP, front wiring harness (3/8" diam., 17/32" bolt-hole)
	70921175	1	-	CAPSCREW, 1/2"NC x 1"
	70677008	1	-	WASHER, plain
19	70094527	4	2	CLIP, wiring harness (1/2" diam., 13/32" bolt-hole)
	70922262	2	2	CAPSCREW, 3/8"NC x 7/8"
	70910287	2	2	LOCKWASHER, 3/8"
	70677006	3	2	WASHER, plain
20	70624508	1	-	CLIP, front wiring harness (1/2" diam., 17/32" bolt-hole)
	70916310	1	-	CAPSCREW, 1/2"NC x 1"
	70912441	2	1	LOCKWASHER, 1/2"
	70910244	1	-	WASHER, plain
21	70094422	4	10	CLIP, wiring harness (5/8" diam., 13/32" bolt-hole) (1 less used prior to unit #19631)
	70922267	2	2	CAPSCREW, 3/8"NC x 7/8"
	70910287	2	2	LOCKWASHER, 3/8"
	70677006	2	2	WASHER, plain
	70928138	-	1	CAPSCREW, 1/4"NC x 5/8"
	70928190	-	1	WASHER, plain
	70910285	-	1	LOCKWASHER, 1/4"
	70911024	-	1	NUT, 1/4"NC
21A	70632547	1	-	CLIP
	70922300	1	-	CAPSCREW, 3/8"NC x 3/4"
	70677006	1	-	WASHER, plain
	70911026	1	-	NUT, 3/8"NC
22	70659422	1	-	CLIP, wiring harness (3/8" diam., 17/32" bolt-hole)
23	70667579	1	1	BOOT, protecting, alternator terminal
24	70660694	1	1	SWITCH, pressure, alternator cut-off
25	-----	-	-	SWITCH, starter (See INSTRUMENTS)
26	-----	-	-	AMMETER (See INSTRUMENTS)
27	-----	-	-	SWITCH, lights (See INSTRUMENTS)
28	-----	-	-	SWITCH, safety (See SPEED CONTROL LINKAGE)
29	70632706	-	1	BOOT, alternator cut-off switch

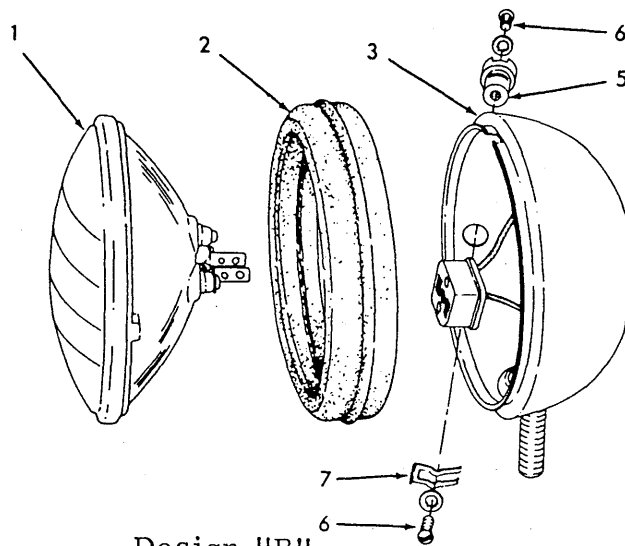
*Special Equipment

(Revised May 1976)



Design "A"

T-27390



Design "B"

T-38214

LIGHT ASSEMBLY

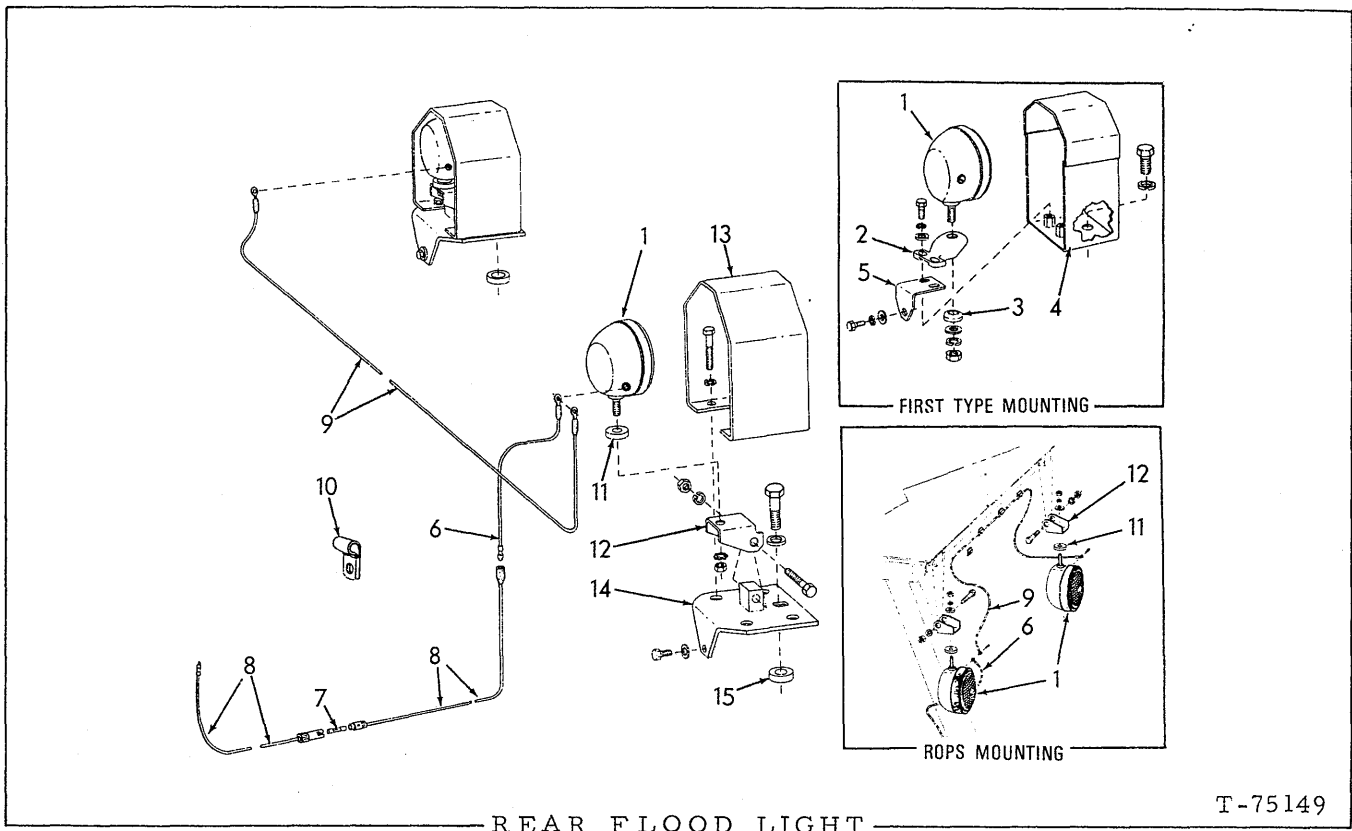
USAGE: See pages 265 and 268.

*Design "A"

**Design "B"

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	NOTE: This Light Assembly is available in two designs. Check illustration to determine which is applicable to your unit and order service parts accordingly.
-	70621429	2 2	LIGHT ASSY. (Includes items 1 thru 7)
1	70182763	1 1	SEALED BEAM (24 volt)
2	70621428	1 -	RETAINER
	70638282	- 1	RETAINER
3	-----	1 -	BODY
	-----	- 1	BODY (Includes receptacle)
4	70621724	2 -	CABLE
5	70695694	- 1	INSULATOR PACKAGE
6	70912731	2 2	SCREW, machine, rd-hd., #8NC x 5/16"
	70912739	- 2	LOCKWASHER, #8
7	70048922	- 1	SPRING

} Not serviced separately



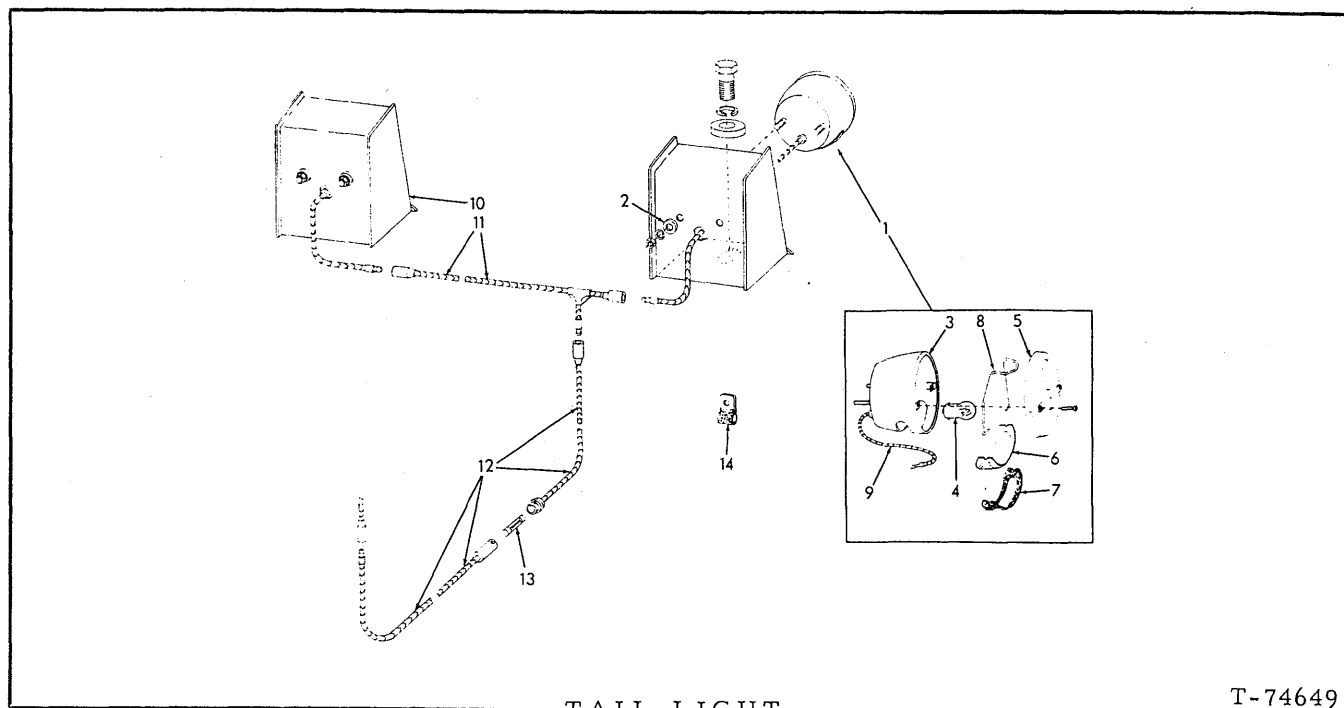
USAGE: Special equipment on tractors prior to serial No. 10S18567; standard thereafter.

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70621429	2	LIGHT ASSY. (See page 267 for parts)	
	70912441	2	LOCKWASHER, 1/2" (Units without ROPS)	
	70677008	2	WASHER, plain	
	70910210	2	LOCKWASHER, ext-tooth, 1/2"	
	70911043	2	NUT, 1/2" NF	
2	70075429	2	BRACKET, mounting	
	70916272	4	CAPSCREW, 3/8" NC x 1-1/4"	
	70904206	4	LOCKWASHER, 3/8"	
	70044973	4	WASHER, plain	
3	70075535	2	WASHER, mounting	First type mounting
4	70675657	2	GUARD, flood light	
	70916287	2	CAPSCREW, 3/4" NC x 1-1/2"	
	70904369	2	LOCKWASHER, 3/4"	
5	70664776	2	ANGLE, guard bracing	
	70922300	2	CAPSCREW, 3/8" NC x 3/4"	
	70910287	2	LOCKWASHER, 3/8"	
	70911115	2	WASHER, plain, SAE std., 3/8"	
6	70068367	1	CABLE, rear section (9" long)(Units without ROPS canopy)	Special equipment. Units with ROPS canopy
	70691253	1	CABLE, rear section (86" long)	
	73059884	16	CLIP, cable supporting (Adhesive backing)	
	70677008	2	WASHER, plain	
	70910210	2	LOCKWASHER, ext-tooth, 1/2"	

(Continued)

REAR FLOOD LIGHT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
7	70208960	1	FUSE, cartridge type (1/4" x 1-1/4", 20 amperes)	
8	70655485	1	CABLE ASSY., front section 107" long. Includes item 7)	
9	70654545	1	CABLE, light connecting (68" long)	
10	70639388	5	CLIP, cable (1/8" diam., 13/32" bolt-hole)	
	70922300	2	CAPSCREW, 3/8"NC x 3/4"	
	70911115	2	WASHER, plain, SAE std., 3/8"	
	70910287	2	LOCKWASHER, 3/8"	
11	70061528	2	BOSS	
12	70076140	2	BRACKET, mounting	} Second type Mounting
	70928043	2	CAPSCREW, 5/8"NC x 3-1/2"	
	70912942	2	LOCKWASHER, 5/8"	
	70911029	2	NUT, 5/8"NC	
13	70670774	2	GUARD, flood light	
	70921175	8	CAPSCREW, 1/2"NC x 1"	
	70912441	8	LOCKWASHER, 3/4"	
14	70678242	2	BRACKET, guard mounting	
	70911043	2	NUT, 1/2"NF	
	70912441	2	LOCKWASHER, 1/2"	
	70921068	2	CAPSCREW, 3/4"NC x 2-1/4"	
	70677012	2	WASHER, plain	
15	70635831	2	BLOCK, spacing	

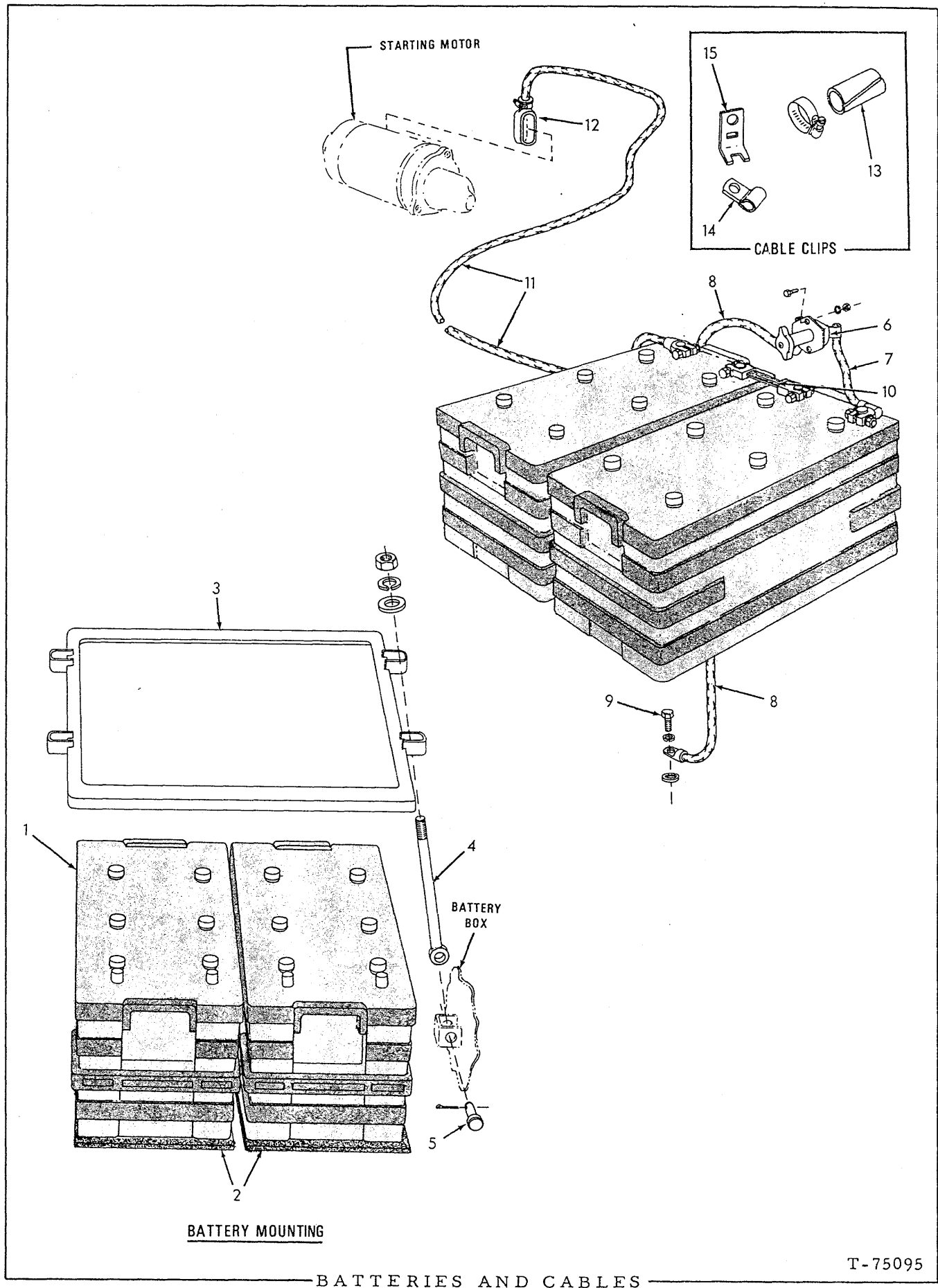


USAGE: Special equipment

ITEM PART NO. QTY. DESCRIPTION

1	70654652	2	LIGHT ASSEMBLY, tail (Consists of items 3 thru 9)
2	70092635	4	WASHER, plain
	70904204	4	LOCKWASHER, 1/4"
	70911024	4	NUT, 1/4"NC
3	-----	2	BODY ASSEMBLY (Not serviced separately)
4	70074452	2	BULB, incandescent, single contact, 6 c. p., 24 volt
5	70654991	2	LENS, tail light (red)
	70654990	4	SCREW, retaining
6	70654988	2	LENS-SEGMENT, tail light (clear)
7	70654989	2	GASKET, lens-segment
8	70654987	2	CLIP, lens-segment retaining
9	70654986	2	WIRE ASSEMBLY, tail light (Includes insulating bushing)
10	70665508	2	GUARD, tail light
	70916287	2	CAPSCREW, 3/4"NC x 1-1/2"
	70904369	2	LOCKWASHER, 3/4"
	70061689	2	WASHER, plain
11	70665505	1	CABLE, light connecting
12	70655485	1	CABLE ASSEMBLY, (Includes item 13)
13	70208960	1	FUSE, cartridge type (1/4" x 1-1/4", 20 amperes)
14	70639388	4	CLIP, cable (1/8" diam., 13/32" bolt-hole)
	70915408	4	CAPSCREW, 3/8"NF x 3/4"
	70904206	4	LOCKWASHER, 3/8"
	70911115	4	WASHER, plain,

MEMO

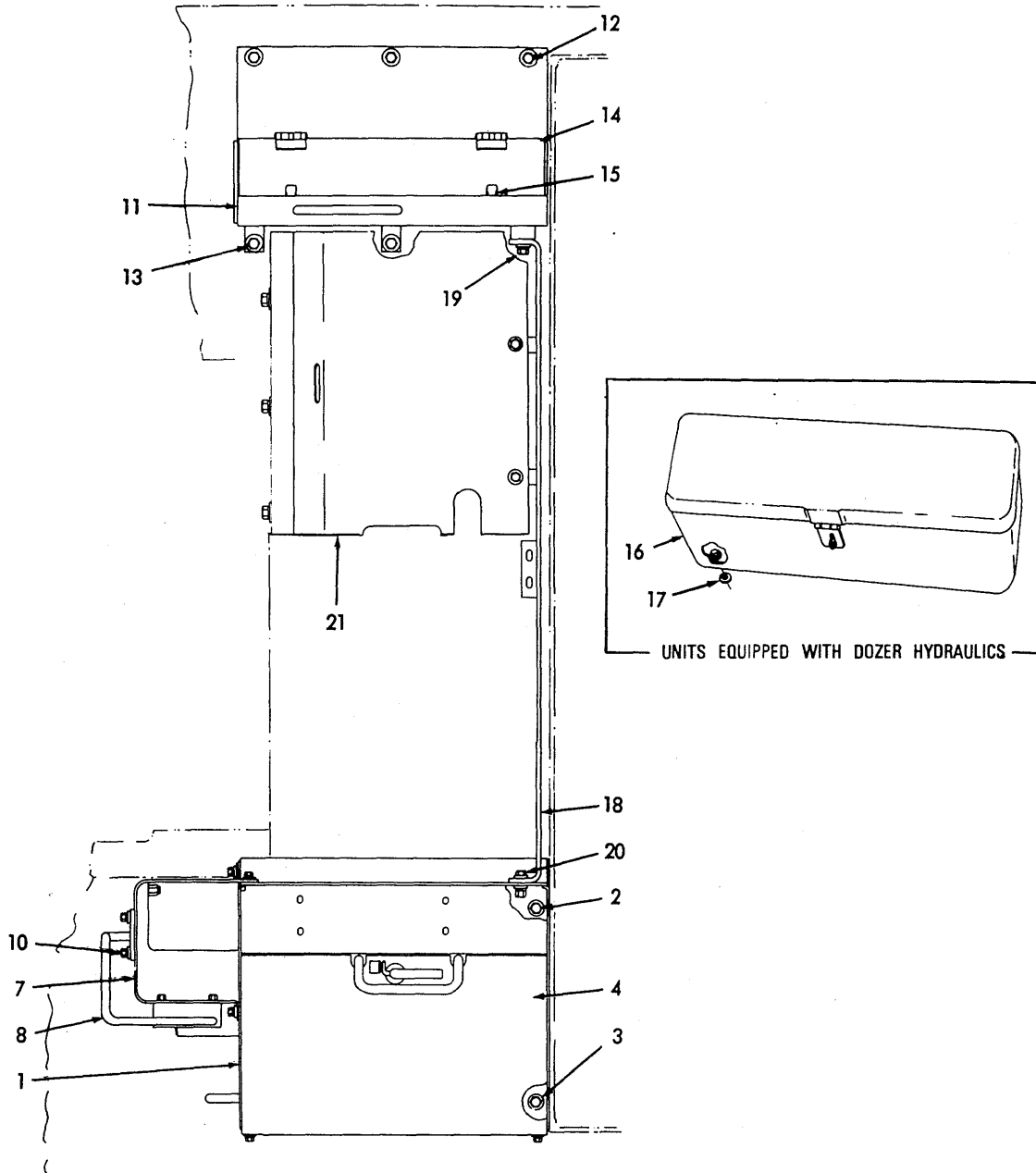


T-75095

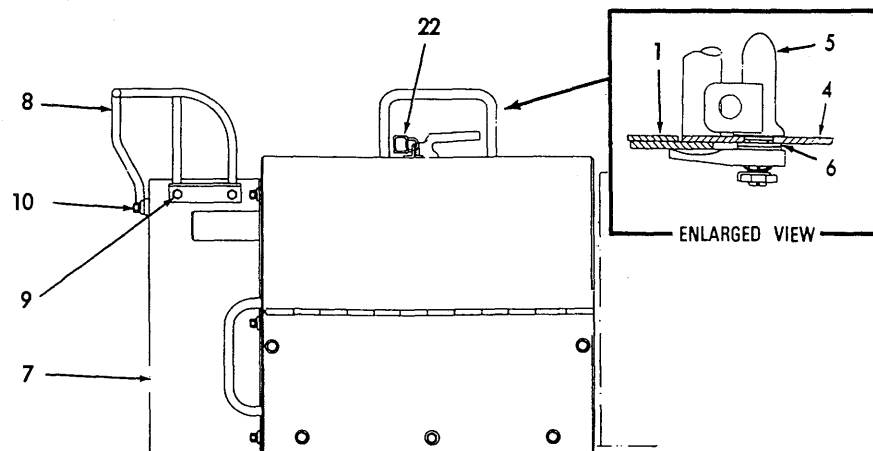
BATTERIES AND CABLES

ITEM	PART NO.	QTY.	DESCRIPTION
1	70695472	2	BATTERY, storage, 12 volts, dry-charged (Each requires 15.7 qts. electrolyte)
1A	70243526	1	ELECTROLYTE (One 6-qt. container with self-contained dispensing hose)
	70243527	1	ELECTROLYTE (One 5-gal. container less dispensing hose)
1B	70243528	1	HOSE, electrolyte dispensing (For use with 5-gal. pack)(Reusable)
2	70085680	2	PAD, battery bottom
3	70660086	1	HOLD-DOWN, battery
4	70605801	4	ROD, hold-down
	70677008	4	WASHER, plain
	70911043	4	NUT, 1/2"NF
5	70049993	4	PIN, hold-down rod
	70900806	4	PIN, cotter, 1/8" x 1"
6	70096908	1	SWITCH ASSEMBLY, master (Serviced only as a unit)
	70927541	2	CAPSCREW, 1/4"NC x 3/4"
	70910285	2	LOCKWASHER, 1/4"
	70911024	2	NUT, 1/4"NC
7	70660220	1	CABLE, battery to master switch (12" long)
8	70668990	1	CABLE, master switch to ground (42" long)
	70927157	1	CAPSCREW, 3/8"NF x 1-3/8"
	70910287	1	LOCKWASHER, 3/8"
	70906960	1	LOCKWASHER, internal teeth, 3/8"
10	70660216	1	STRAP, battery connecting
11	70660215	1	CABLE, battery to starter (114-1/2" long)
12	70076572	1	BOOT, protecting, starter terminal
	70921912	1	CLAMP, hose, 1-1/16" to 2" diam.
13	70076469	5	BOOT, cable protecting
	70921912	5	CLAMP, hose, 1-1/16" to 2" diam.
14	70094422	3	CLIP, cable supporting
	70922262	3	CAPSCREW, 3/8"NC x 7/8"
	70910287	3	LOCKWASHER, 3/8"
	70677006	3	WASHER, plain
15	70633653	4	CLIP, cable supporting

(Revised January 1976)



UNITS EQUIPPED WITH DOZER HYDRAULICS



ENLARGED VIEW

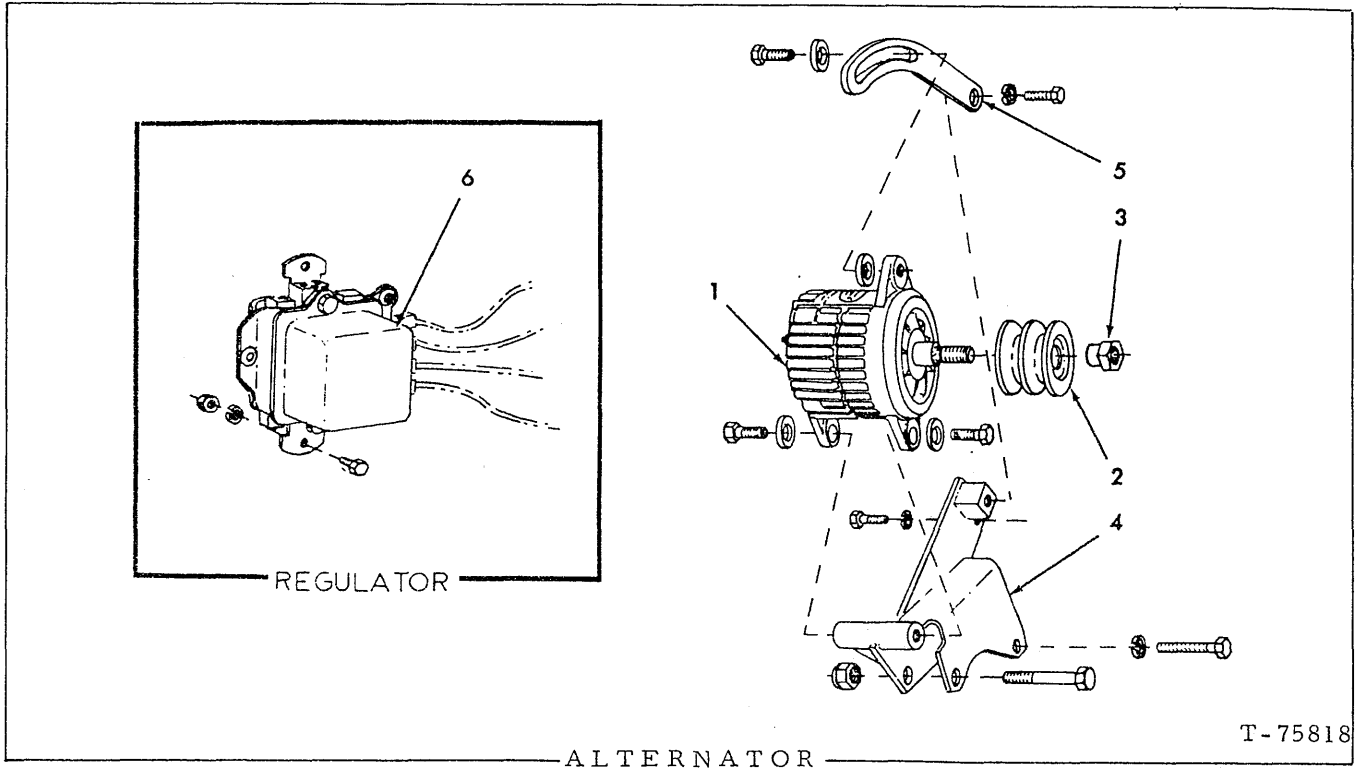
BATTERY AND TOOL BOXES

T-75145

BATTERY AND TOOL BOXES

ITEM	PART NO.	QTY.	DESCRIPTION
1	70681089	1	BOX, battery (Tractors prior to unit #20292)
	70695770	1	BOX, battery (Tractor unit #20292 and up)
2	70919313	2	CAPSCREW, 1/2"NC x 1-3/4"
3	70916314	4	CAPSCREW, 1/2"NC x 2"
	70904208	6	LOCKWASHER, 1/2"
	70064531	10	WASHER, plain
	70911028	4	NUT, 1/2"NC
4	70681081	1	COVER, battery box
	70916271	4	CAPSCREW, 3/8"NC x 1"
	70904206	4	LOCKWASHER, 3/8"
	70044973	4	WASHER, plain
5	70650901	1	LOCK ASSEMBLY, battery box cover (Serviced only as a unit)
6	70911115	2	WASHER, plain
7	70660651	1	COVER, speed control linkage (Tractors prior to unit #20292)
	70695772	1	COVER, speed control linkage (Tractors unit #20292 and up)
	70916271	6	CAPSCREW, 3/8"NC x 1"
	70904206	6	LOCKWASHER, 3/8"
	70044973	6	WASHER, plain
8	70656608	1	GUARD, speed shift lever
9	70916271	2	CAPSCREW, 3/8"NC x 1"
10	70070960	2	CAPSCREW, 3/8"NC x 1-1/2"
	70904206	4	LOCKWASHER, 3/8"
	70044973	2	WASHER, plain
11	70660670	1	BOX, tool
12	70921172	3	CAPSCREW, 5/8"NC x 2-1/4"
13	70921266	3	CAPSCREW, 5/8"NC x 3-1/4"
	70912942	6	LOCKWASHER, 5/8"
	70677010	6	WASHER, plain
14	70643369	1	COVER ASSEMBLY, tool box (Includes item 15)
	70915408	4	CAPSCREW, 3/8"NC x 3/4"
	70910287	4	LOCKWASHER, 3/8"
	70911026	4	NUT, 3/8"NC
15	70639480	2	CLAMP, cover latching
	70911608	8	RIVET, button-head, 1/8" x 3/8"
16	70604943	1	BOX, tool (Mounts on right track fender)(Tractors with dozer hydraulics)
	70921076	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
	70677006	4	WASHER, plain
17	70677006	4	WASHER, plain
18	70669371	1	SUPPORT
19	70920574	3	CAPSCREW, 1/2"NC x 1-3/8"
20	70921403	3	CAPSCREW, 1/2"NC x 1-3/4"
	70677010	6	WASHER, plain
	70682358	9	WASHER, plain
	70911029	3	NUT, 1/2"NC
21	70668393	1	COVER, filter compartment (Not used on units equipped with dozer hydraulics)
	70916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	70912441	4	LOCKWASHER, 1/2"
	70677008	4	WASHER, plain
22	70928052	1	PADLOCK

Tractors without
dozer hydraulics

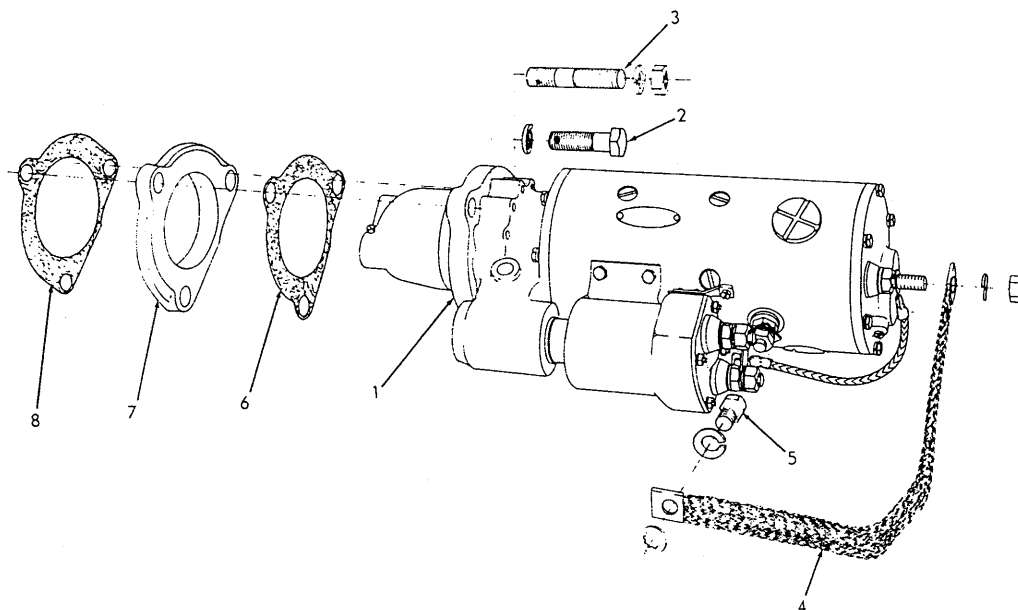


T-75818

*Standard (20 amp capacity)
 **Optional (50 amp capacity)

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	70660144	1 -	ALTERNATOR ("Delco-Remy" #1100062)
	70662020	- 1	ALTERNATOR ("Delco-Remy" #1117236)
	70699268	- 1	ALTERNATOR ("Delco-Remy" #1117248)
	70927491	1 1	CAPSCREW, Nylok, 1/2"NC x 1-1/4"
	70922508	1 1	CAPSCREW, Nylok, 1/2"NC x 1-1/2"
	70910244	2 2	WASHER, plain, SAE std., 1/2"
2	70667234	1 1	PULLEY
3	70667188	1 1	NUT, pulley retaining
4	70667216	1 1	BRACKET, alternator mounting
	70921569	1 1	CAPSCREW, 7/16"NC x 1-1/4"
	70914678	1 1	LOCKWASHER, 7/16"
	70922763	1 1	CAPSCREW, 3/4"NC x 4-1/2"
	70916170	1 1	NUT, elastic stop, 3/4"NC
	70921539	1 1	CAPSCREW, 1/2"NC x 3-1/2"
	70912441	1 1	LOCKWASHER, 1/2" } Also attach fan bracket
5	70667224	1 1	STRAP, belt adjustment
	70920582	2 2	CAPSCREW, 1/2"NC x 1-1/4"
	70677008	1 1	WASHER, plain
	70928188	2 2	WASHER, plain
6	70650944	1 -	REGULATOR, voltage and current ("Delco-Remy" #1119518. Order parts from local "United Motors Service" agency)(Not illustrated)
	70915343	2 -	CAPSCREW, 1/4"NC x 5/8"
	70904204	2 -	LOCKWASHER, 1/4"
	70911024	2 -	NUT, 1/4"NC

NOTE: See FAN for driving belts

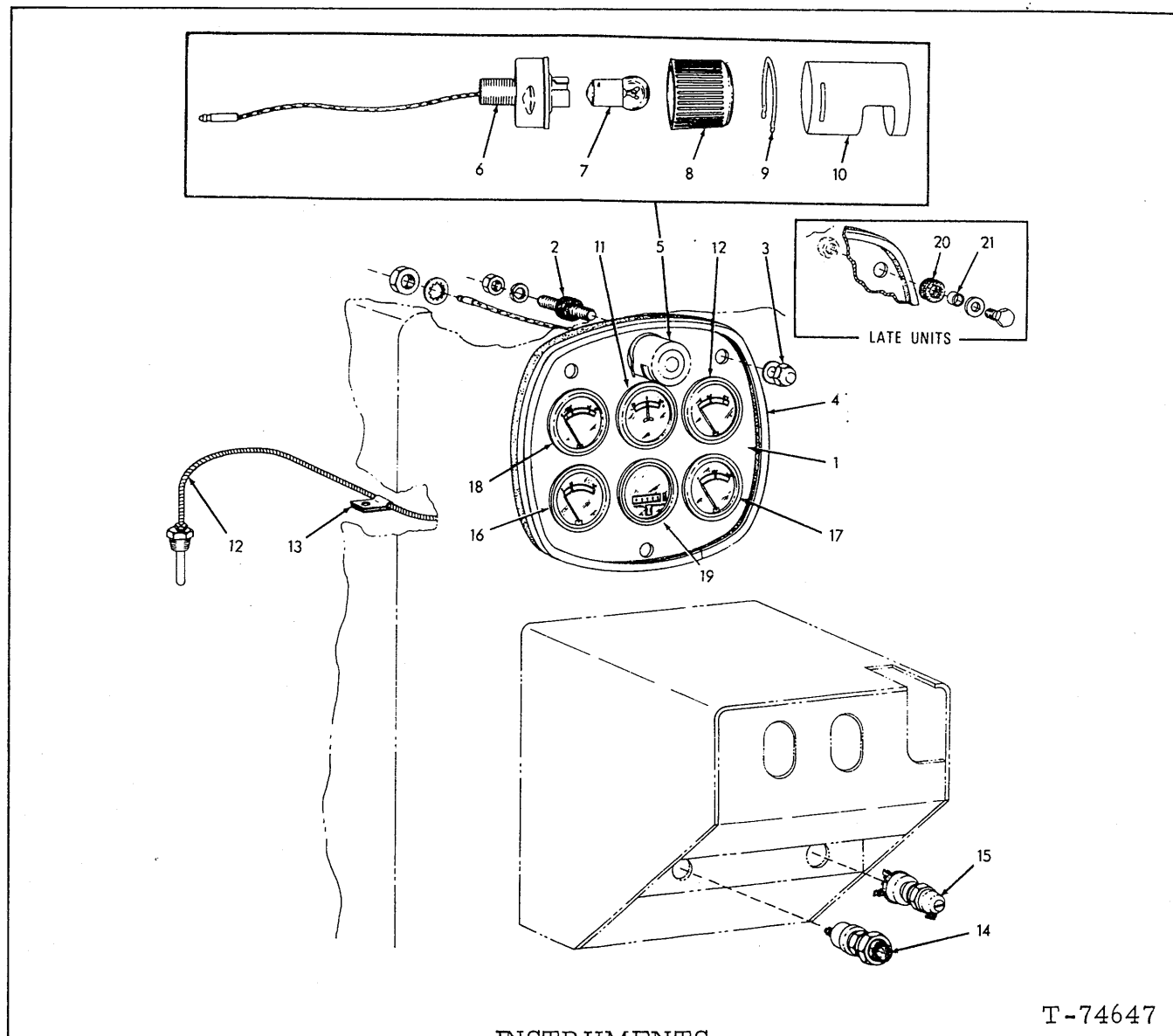


STARTER

T-39355

ITEM	PART NO.	QTY.	DESCRIPTION
1	73117237	1	MOTOR, starting ("Delco-Remy" #1113898)(Standard)
	70620350	1	MOTOR, starting ("Delco-Remy" #1109986)(Heavy-duty)
2	70928839	2	CAPSCREW, Nylok, 5/8"NC x 2-1/4"
3	70648262	1	STUD, Nylok, 5/8"NC x 5/8"NF x 3-1/8"
	70912942	3	LOCKWASHER, 5/8"
	70911044	1	NUT, 5/8"NF
4	70630199	1	STRAP, starter to ground
5	70927158	1	CAPSCREW, 1/2"NF x 1"
	70912441	1	LOCKWASHER, regular, 1/2"
	70906961	1	LOCKWASHER, int-tooth, 1/2"
6	70631573	1	GASKET, starting motor
7	70631574	1	ADAPTER, starting motor
8	70631572	1	GASKET, starting motor adapter

(Revised August 1979)



T-74647

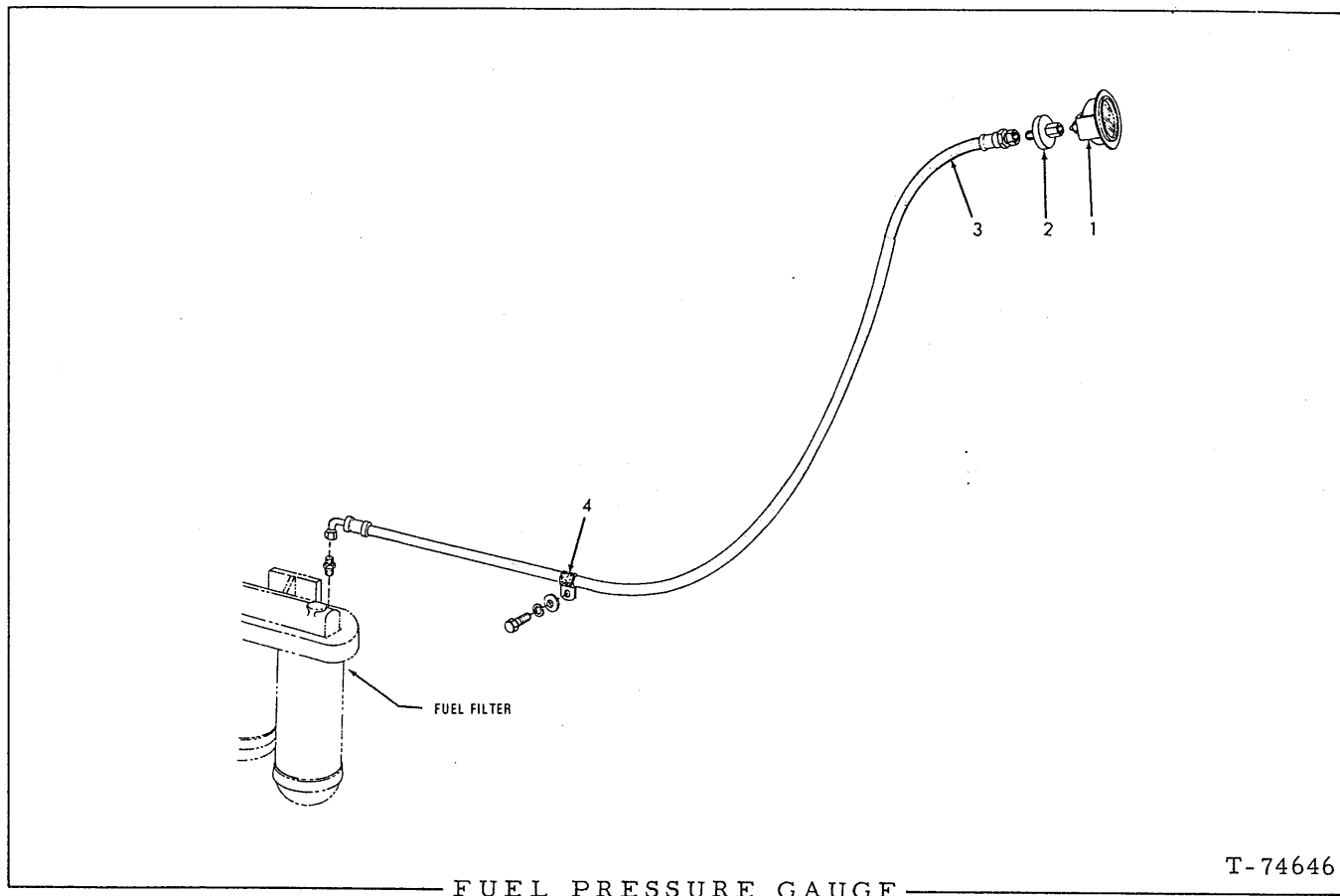
INSTRUMENTS

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70656905	1	PLATE, instrument mounting (Tractors prior to unit #19229)	
	70686358	1	PLATE, instrument mounting (Tractor unit #19229 thru #20291)	
	70695839	1	PLATE, instrument mounting (Tractor unit #20292 and up)	
	70930736	3	CAPSCREW, 1/4" NC x 3/4"	
	70930735	3	WASHER	
2	70642746	3	CUSHION, instrument mounting plate	} Tractors prior to #20292
	70910287	3	LOCKWASHER, 3/8"	
	70911048	3	NUT, jam, 3/8" NF	
3	70930404	3	NUT, instrument mounting plate	
	70930728	3	WASHER	

(Continued)

INSTRUMENTS (Continued)

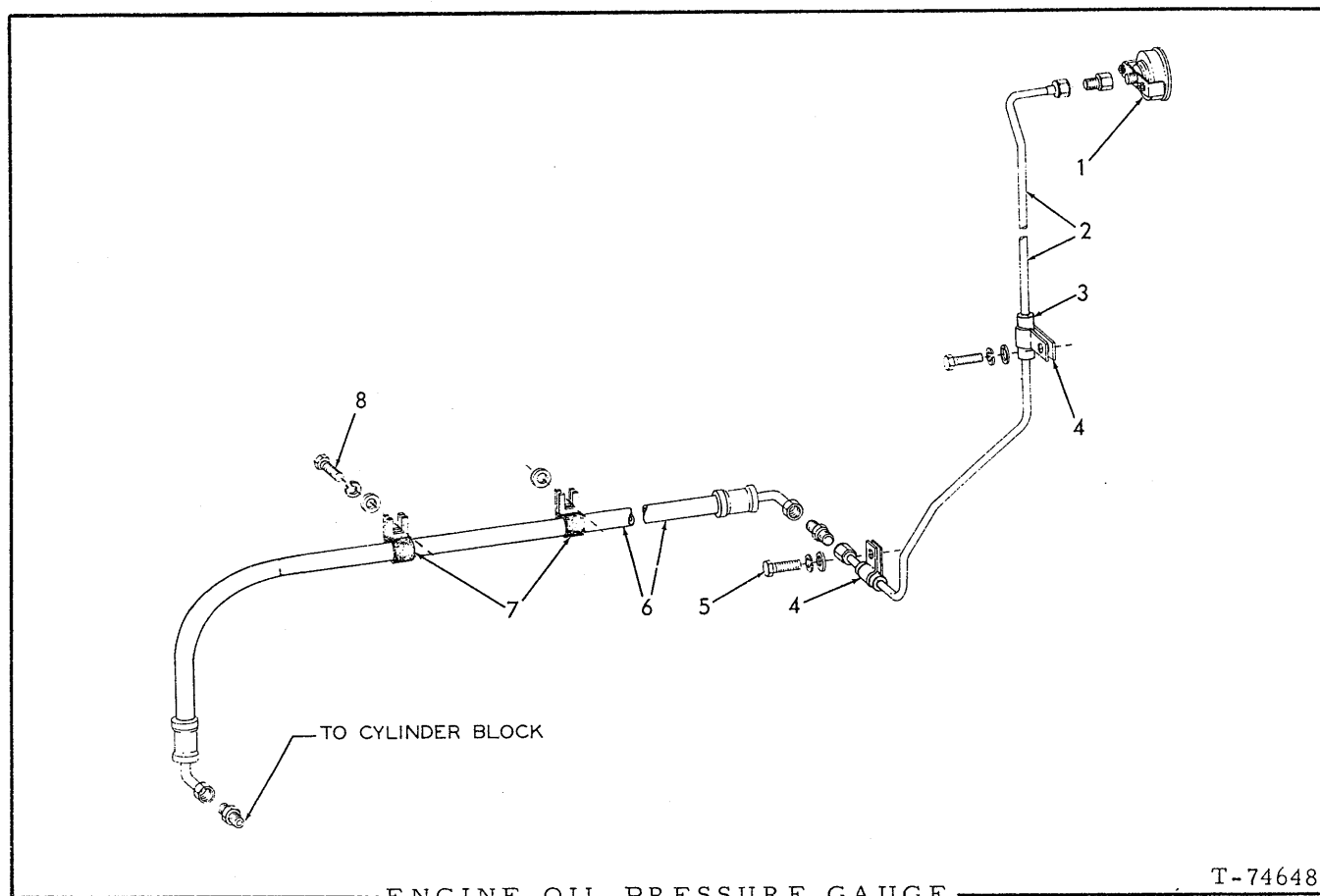
ITEM	PART NO.	QTY.	DESCRIPTION
4	70566923	1	SEAL, weather, instrument mounting plate (Tractor prior to unit No.19229)
	70686516	1	SEAL, weather, instrument mounting plate (Tractor unit #19229 thru #20291)
	70692562	1	SEAL, weather, instrument mounting plate (Tractor unit #20292 and up)
5	70693635	1	LIGHT ASSY., instrument panel (Consists of items 6 thru 10)
	70911049	1	NUT, jam, 5/8"NF
	70910334	1	LOCKWASHER, int-tooth, 5/8"
6	-----	1	BASE ASSY. (Not serviced separately)
7	70074452	1	BULB, instrument light (single contact, 6C. P., 24 volts)
8	70095267	1	LENS, instrument light
9	70095265	1	SPRING, retaining, instrument light cover
10	70693636	1	COVER, instrument light
11	70658348	1	AMMETER (30 amp. Includes mounting clamp)(Standard)
	70658534	1	AMMETER (80 amp. Includes mounting clamp) (Special equipment)
12	70658397	1	GAUGE, engine temperature (Includes mounting clamp)
13	70639312	1	CLIP, temperature gauge tube
14	70240962	1	SWITCH ASSY., starter (Includes mounting nut)
15	70661345	1	SWITCH ASSY., lights (Includes mounting nut)
16	-----	1	GAUGE, transmission lubricating oil pressure (See page 282)
17	-----	1	GAUGE, transmission hydraulic pressure (See page 282)
18	-----	1	GAUGE, engine oil pressure (See page 281)
19	-----	1	GAUGE, fuel oil pressure (See page 280)(Tractors prior to unit #18567)
	70921193	1	PLUG, button, 2-3/32" hole diam. (Tractor unit #18567 thru #20291)
	70699126	1	HOURLY METER (Tractor unit #20292 and up)
20	70913233	3	GROMMET
21	70698697	3	SLEEVE



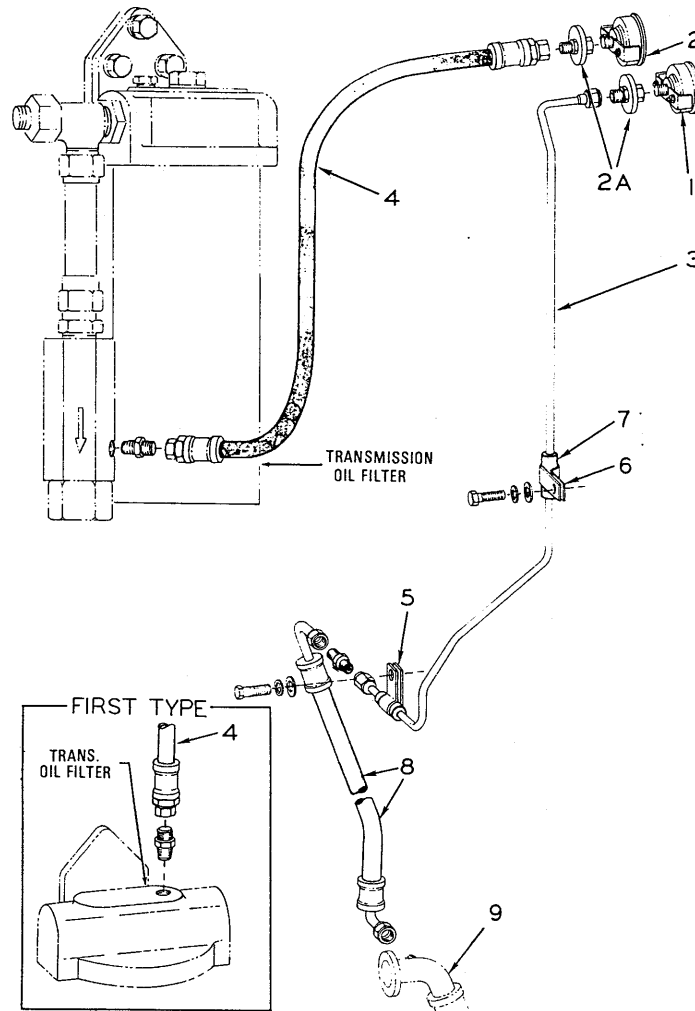
FUEL PRESSURE GAUGE

USAGE: Tractors prior to serial No. 18567

ITEM	PART NO.	QTY.	DESCRIPTION
1	70658349	1	GAUGE (Includes mounting clamp)
2	70088534	1	RESTRICTOR
3	70668516	1	HOSE (See HOSE PARTS)
	70919171	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
4	70620035	1	CLIP, hose supporting
	70927400	1	CAPSCREW, 3/8"NC x 5/8"
	70910287	1	LOCKWASHER, 3/8"



ITEM	PART NO.	QTY.	DESCRIPTION
1	70658293	1	GAUGE, oil pressure (Includes mounting clamp)
2	70658124	1	TUBE ASSY., oil pressure gauge (Includes nuts)
	70919174	1	CONNECTOR, flare type, 1/4" tube, 1/8" NPT female
	70919214	1	UNION, flare type, 1/4" tube
3	70093972	2	BOOT, tube protecting (rubber)
4	70047381	2	CLIP, tube supporting (5/8" diam., 13/32" bolt-hole)
5	70922262	2	CAPSCREW, 3/8" NC x 7/8"
	70677006	2	WASHER, plain
6	70658639	1	HOSE, oil pressure line (See HOSE PARTS)
	70919140	1	CONNECTOR, flare type, 1/4" tube, 1/4" NPT male
7	70620035	2	CLIP, hose supporting, (1/2" diam., 13/32" bolt-hole)
8	70922262	2	CAPSCREW, 3/8" NC x 7/8"
	70677006	2	WASHER, plain



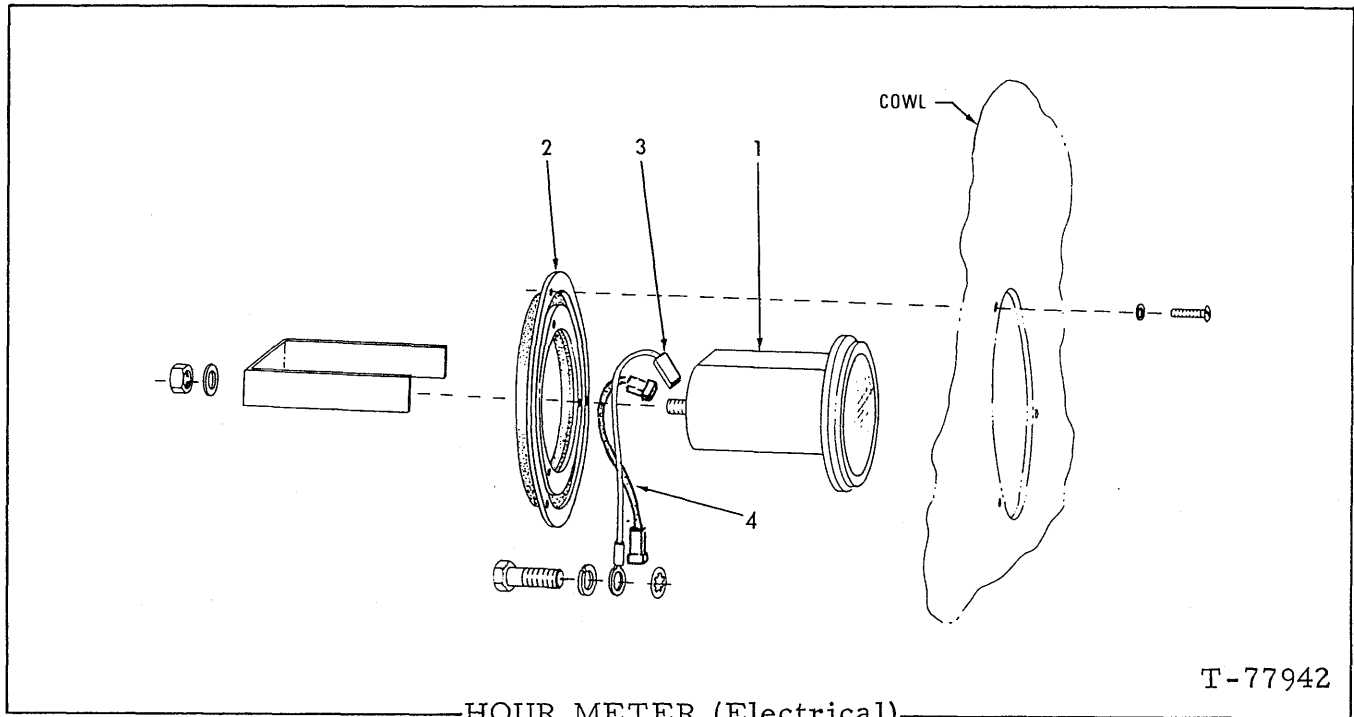
T-74645

TRANSMISSION PRESSURE GAUGES

ITEM	PART NO.	QTY.	DESCRIPTION
1	70676409	1	GAUGE, lubricating oil (Includes mounting clamp)
2	70676408	1	GAUGE, hydraulic pressure (Includes mounting clamp)
2A	70088534	2	RESTRICTOR, gauge lines (Tractors prior to unit #20177)
	70919174	2	CONNECTOR, gauge lines (Tractor unit #20177 and up)
3	70658121	1	TUBE ASSY., lube oil gauge (Includes nuts)(Tractors prior to unit #20292)
	70919214	1	UNION, flare type, 1/4" tube
	70695562	1	TUBE ASSY., lube oil gauge (Includes nuts)(Tractor unit #20292 and up)
4	70660842	1	HOSE, hydraulic pressure gauge (See HOSE PARTS)
	70919140	1	CONNECTOR
	70669564	1	HOSE, hydraulic pressure gauge (See HOSE PARTS)
	70926292	1	CONNECTOR, flare type, 1/4" tube, 1/8" NPT male
5	70628723	1	CLIP, tube supporting (long)
6	70047381	1	CLIP, tube supporting (short)
7	70093972	2	BOOT, tube protecting (rubber)
8	70660850	1	HOSE, lube oil gauge (See HOSE PARTS)
9	-----	1	HOSE, oil supply (See TRANSMISSION)

Tractors without Automatic Safety Brakes

Tractors with Automatic Safety Brakes

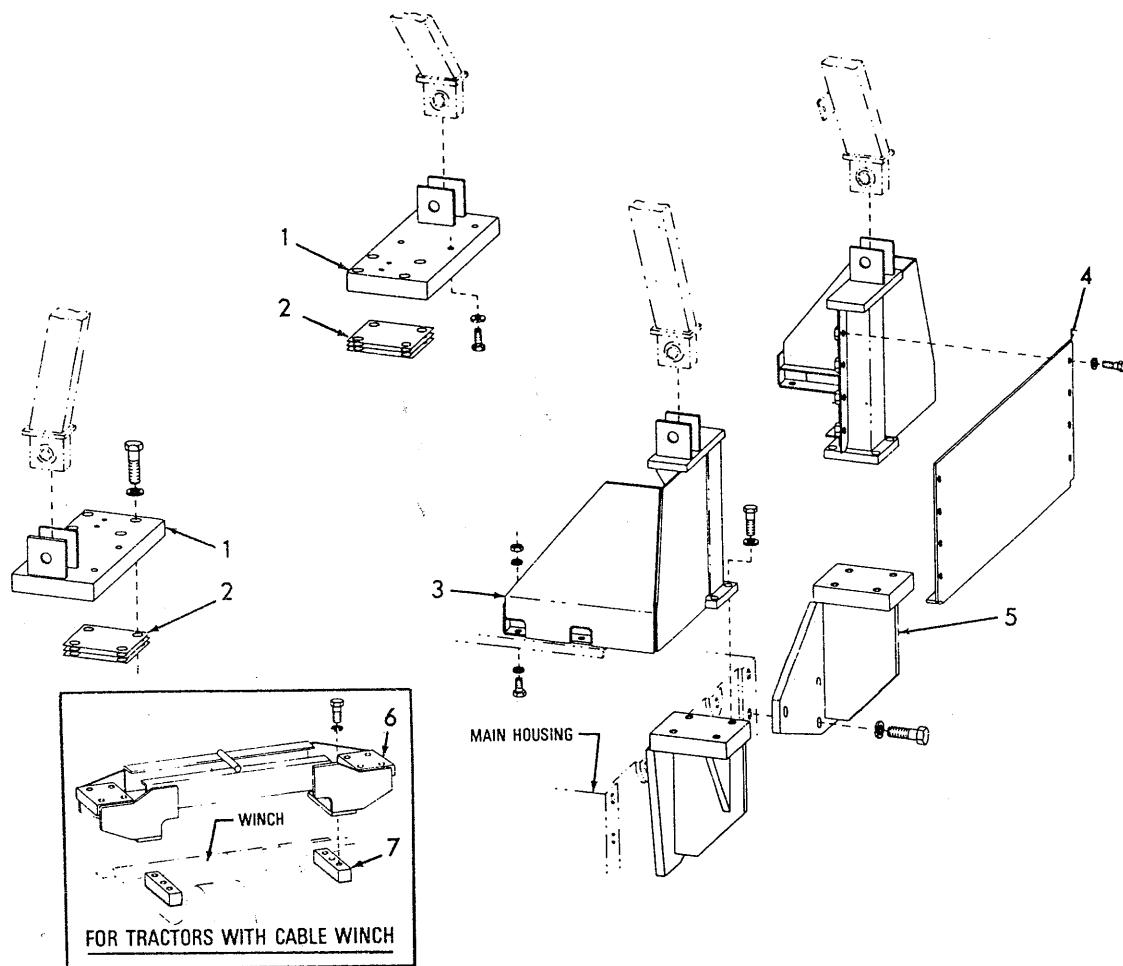


USAGE: Tractor serial No. 10S18575 and up. See page 278

ITEM PART NO. QTY. DESCRIPTION

1	70658881	1	METER, hour (Tractor unit #18575 thru #19273)
	70688997	1	METER, hour (Includes mounting clamp)(Tractor unit #19274 and up)
2	70066467	1	DAMPER (Tractors prior to #20292)
	70918210	3	SCREW, thread cutting, #6 x 1/2" (Includes lockwasher)
3	70630917	1	CABLE, ground
	70928182	1	CAPSCREW, 1/4" NC x 1/2"
	70910285	1	LOCKWASHER, 1/4"
	70906958	1	LOCKWASHER, internal-tooth, 1/4"
4	70695382	1	CABLE, to harness (Tractor unit #20292 and up)

NOTE: Meter carries manufacturer's warranty and in case of failure should not be returned to Fiat-Allis. Return to nearest "Stewart-Warner Agency".



ROPS MOUNTING BRACKETS

T-79131

USAGE: Special. For units equipped with Safety Cab or Canopy

ITEM	PART NO.	QTY.	DESCRIPTION
1	70686271	1	BRACKET, frame mounting, left
	70686272	1	BRACKET, frame mounting, right
	70922859	8	CAPSCREW, 1"NC x 4"
	70083318	8	WASHER, plain
	70926785	6	CAPSCREW, 1"NC x 2-3/4"
2	70678072	6	WASHER, plain
	70687956	6	SHIM (.065" thick)(Use as required)
3	70686309	1	GUARD ASSY., frame mounting, left
	70686310	1	GUARD ASSY., frame mounting, right
	70921172	4	CAPSCREW, 1/2"NC x 1-1/8"
	70677010	8	WASHER, plain
	70911029	4	NUT, 1/2"NC
	70927015	8	CAPSCREW, 1"NC x 3"
	70083318	8	WASHER, plain

ROPS MOUNTING BRACKETS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
4	70686266	1	GUARD, rear plate	
	70920585	8	CAPSCREW, 1/2"NC x 1-3/4"	
	70677008	8	WASHER, plain	
5	70683251	1	BRACKET, cab or canopy mounting, left	} For tractors equipped with Drawbar or Rear Mounted Counter Weight Cable Control, Control Unit (See Note)
	70683252	1	BRACKET, cab or canopy mounting, right	
	70925880	6	CAPSCREW, 1-1/4"NF x 3-1/2"	
	70926208	6	WASHER, plain	

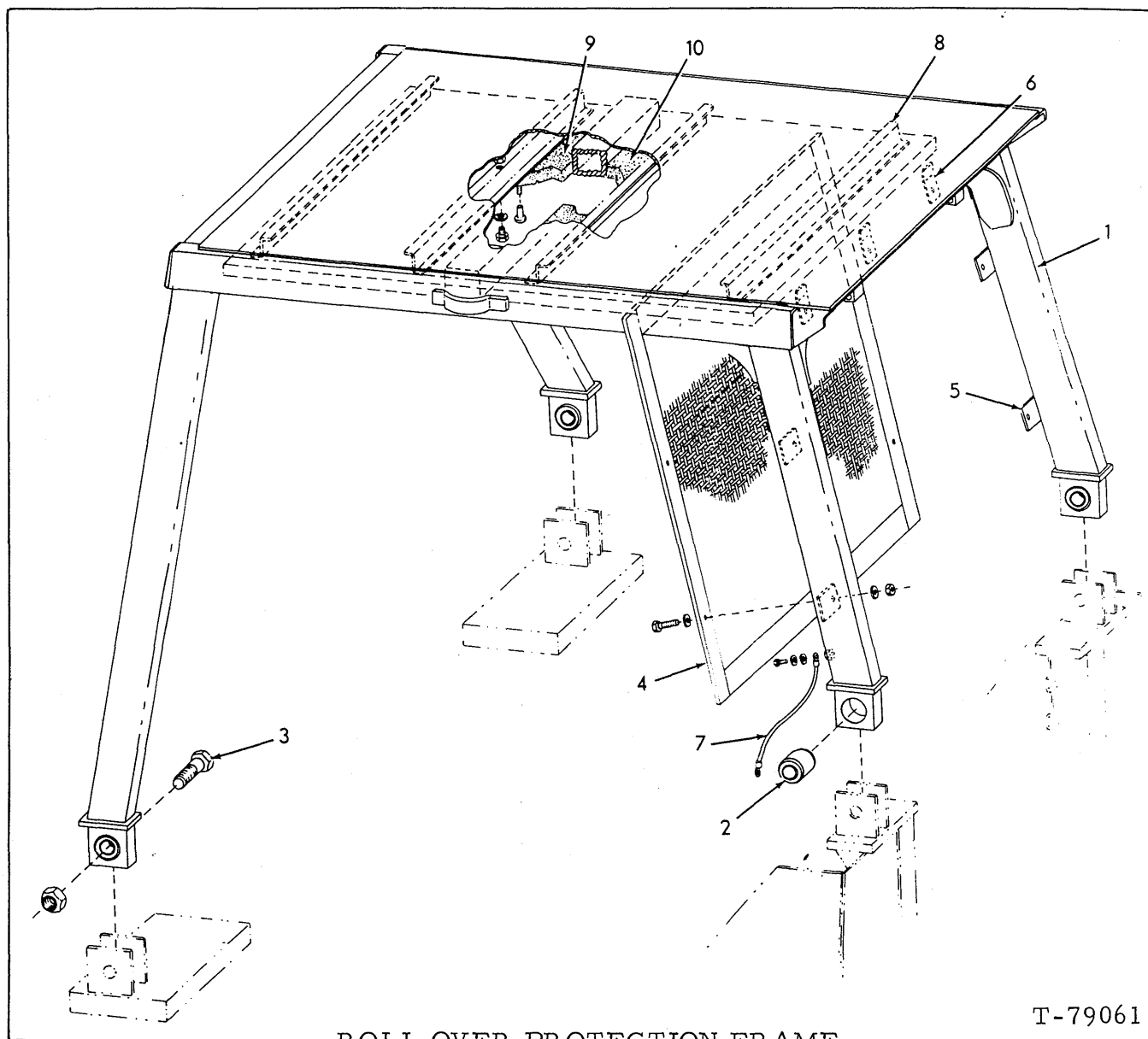
NOTE: Item 5 requires reworking per print S-5362 if for tractors equipped with Rear Mounted Cable Control Unit.

6	70669458	1	BRACKET, cab or canopy mounting	} For tractors equipped with cable winch
	70923201	6	CAPSCREW, 1-1/4"NF x 3"	
	70914210	6	LOCKWASHER, 1-1/4"	
7	70669468	1	BLOCK, bracket mounting, right	
	70669469	1	BLOCK, bracket mounting, left	} Requires welding to install

CAB
(Not Illustrated)

USAGE: Special Equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	CAB ASSY. (Vendor Part No. 10013C. Service must be obtained from Industrial Cab Company, Route 22, Western Avenue, Essex, Massachusetts, 01929)



T-79061

ROLL OVER PROTECTION FRAME

ITEM	PART NO.	QTY.	DESCRIPTION
1	70685069	1	FRAME ASSY. (Includes item 2)(Also order TRANSFER 70694796)
2	70684837	4	BUSHING
3	70929311	4	CAPSCREW, 1-1/4"NC x 6-1/2"
	70917792	4	NUT, elastic stop, 1-1/4"NC
4	70685773	1	SCREEN
	70921556	7	CAPSCREW, 1/2"NC x 2"
	70677008	14	WASHER
	70911028	7	NUT, 1/2"NC
5	70686446	4	BAR, screen-mounting
6	70685768	3	BAR, screen-mounting
7	70093176	1	CABLE, canopy ground (10" long)
	70922300	2	CAPSCREW, 3/8"NC x 3/4"
	70906960	2	LOCKWASHER, internal tooth, 3/8"
	70677006	2	WASHER, plain

} Requires welding to install

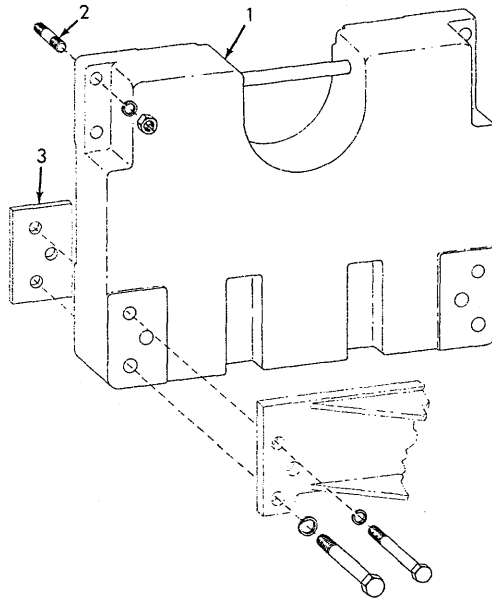
(Continued)

(Revised May 1976)

ROLL OVER PROTECTION FRAME (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70698363	4	CHANNEL
	70928532	8	CAPSCREW, drilled-hd., 3/8"NC x 3/4"
	70677006	8	WASHER
	70023633	8	LOCKWIRE, 16 ga. x 12"
9	70698377	1	INSULATION
10	70698376	1	INSULATION
	73064776	20	FASTENER
11	70698378	1	HEADLINER KIT (Includes items 8 thru 10)

MEMO



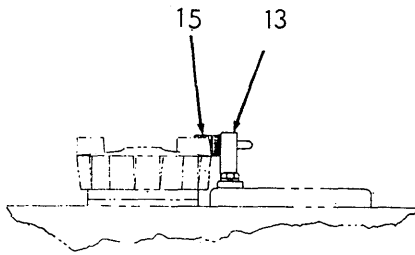
T-76867

COUNTER WEIGHT

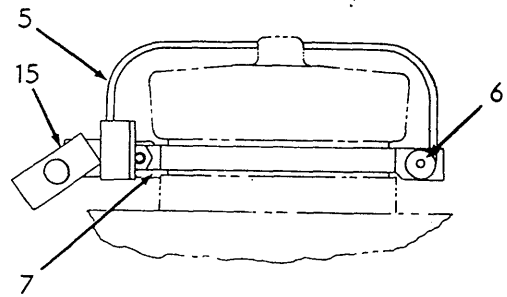
USAGE: Special equipment

* Without ROPS brackets
** With ROPS brackets

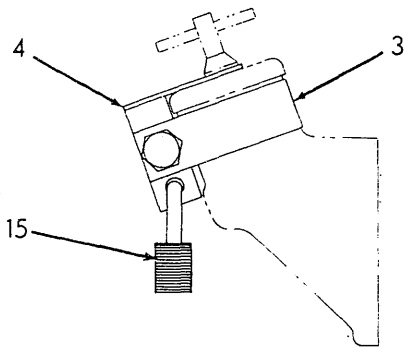
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	70671713	1	-	COUNTER WEIGHT
	70927286	1	-	CAPSCREW, 1-1/4"NF x 14-1/2"
	70914730	1	-	LOCKWASHER, 1-1/4"
	70927287	4	-	CAPSCREW 1/2"NC x 14-1/2"
	70912603	4	-	LOCKWASHER, 1-1/2"
	70678188	-	1	COUNTER WEIGHT
	70928011	-	2	CAPSCREW, 1-1/4"NF x 15"
	70926208	-	2	WASHER, plain
	70928012	-	4	CAPSCREW, 1-1/4"NF x 15"
	70926212	-	4	WASHER, plain
2	70671727	4	-	STUD (6-3/4" long)
	70914730	4	-	LOCKWASHER, 1-1/4"
	70913097	4	4	NUT, 1-1/4"NF
	70678187	-	4	STUD (7-3/4" long)
	70926208	-	4	WASHER, plain
3	70678195	-	2	SPACER



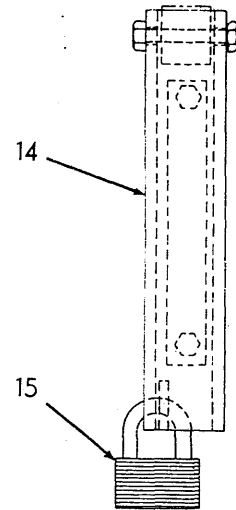
HYDRAULIC TANK



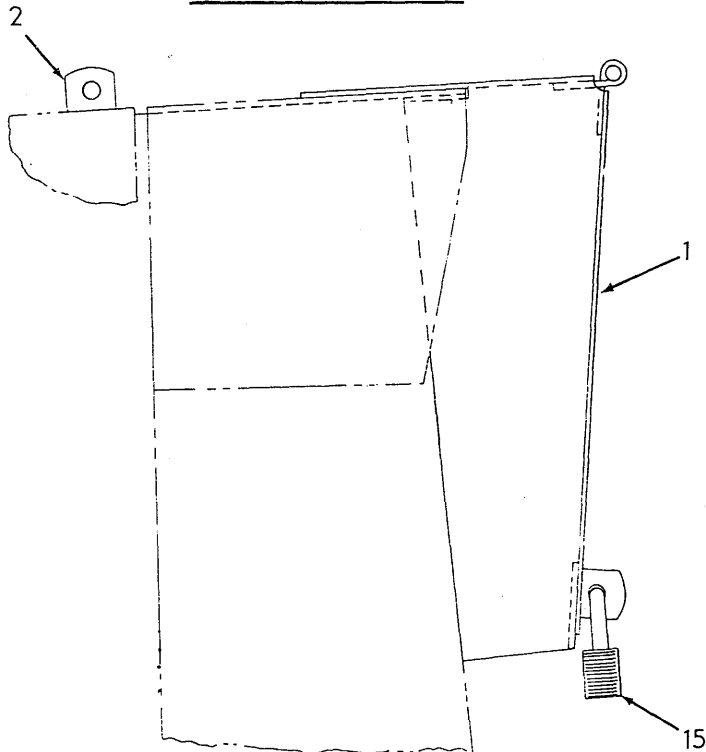
FUEL TANK



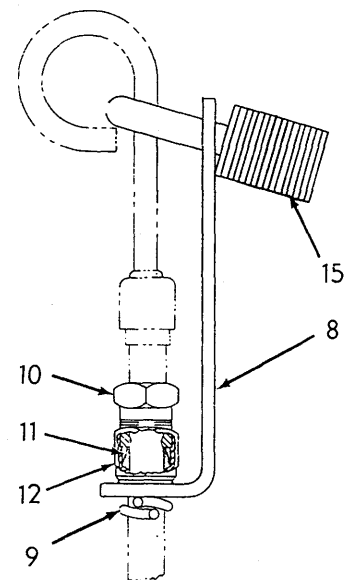
ENGINE OIL FILLER TUBE



HYDRAULIC TANK SIGHT GAUGE



INSTRUMENT PANEL



ENGINE OIL DIPSTICK

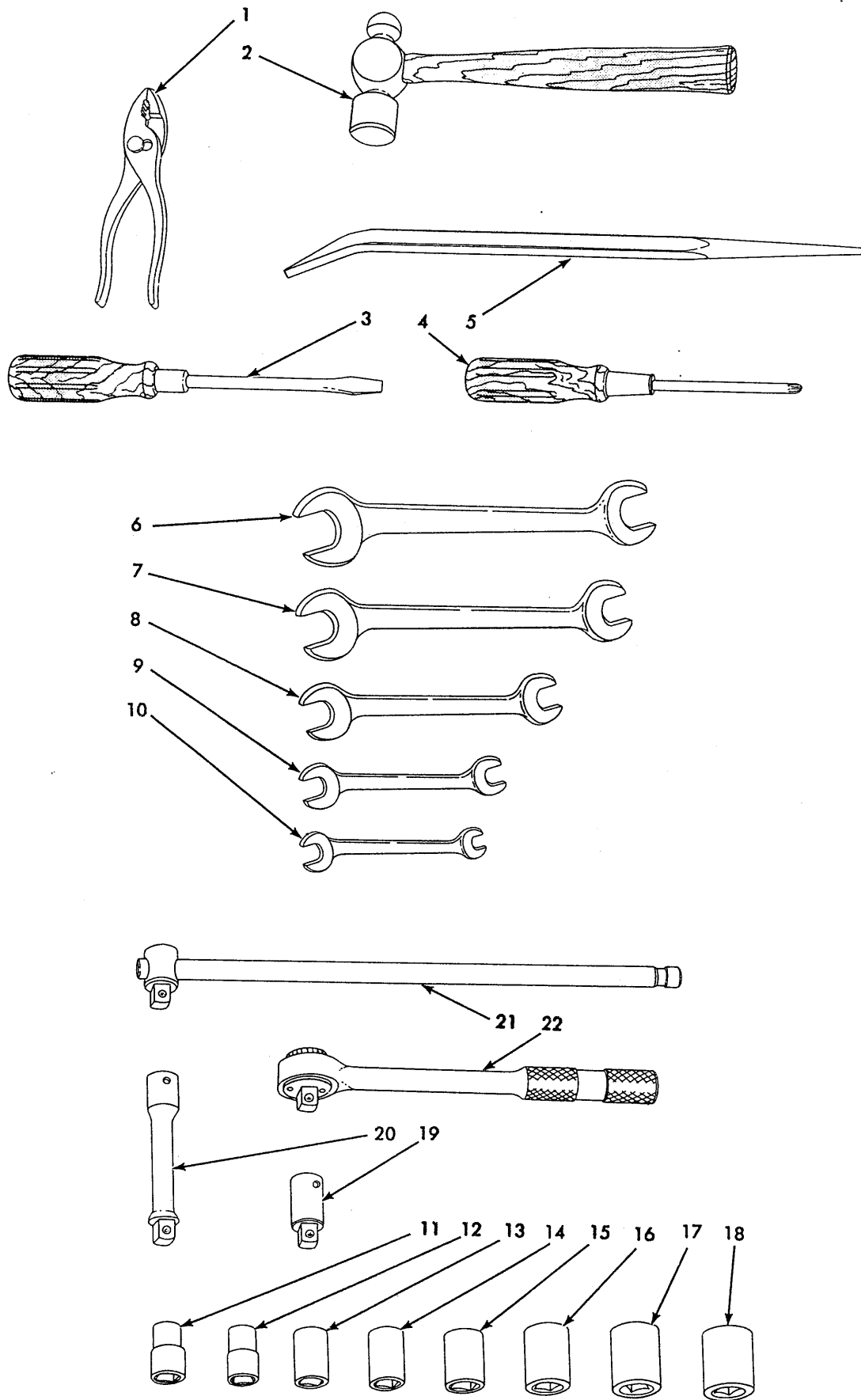
VANDALISM PREVENTION PARTS

T-76433

VANDALISM PREVENTION PARTS

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70658147	1	GUARD, instrument panel (Requires welding to cowl) (Tractors prior to unit #20292)	
	70695527	1	GUARD, instrument panel (Requires welding to cowl) (Tractor unit #20292 and up)	
2	70660936	1	LUG, instrument panel guard (Requires welding to hood)(Tractors prior to unit #20292)	
	70697534	1	ANGLE, instrument panel guard (Tractor unit #20292 and up)	
	70927491	1	CAPSCREW, 1/2"NC x 1-1/4"	
3	70660070	1	COLLAR, engine oil filler elbow	
	70921076	1	CAPSCREW, 3/8"NC x 1-1/4"	
	70677006	1	WASHER	
4	70659112	1	BRACKET, engine oil filler closure	
5	70657553	1	COVER, fuel tank cap	
6	70924838	1	RIVET, fuel, tank cap cover	
7	70657556	1	CLAMP, fuel tank filler neck	} Tractors prior to unit #19085
	70916285	1	CAPSCREW, 1/4"NC x 1"	
	70910285	1	LOCKWASHER, 1/4"	
	70911024	1	NUT, 1/4"NC	
8	70659175	1	ANGLE, locking, engine oil level gauge	
9	74254980	1	CLAMP, supporting, locking angle	
10	70650178	1	NUT, locking, engine oil level gauge (upper)	
11	70925164	1	FERRULE, locking nut	
12	70925162	1	NUT, locking, engine oil level gauge (lower)	
13	70682498	1	PLATE, locking, hydraulic tank cap	
	70922287	2	CAPSCREW, 3/8"NC x 1-3/4"	
14	70677711	1	CHANNEL, sight gauge guarding	
	70920996	1	CAPSCREW, 3/8"NC x 2-1/4"	
	70915891	1	NUT, elastic stop, 3/8"NC	
15	70928052	6	PADLOCK	

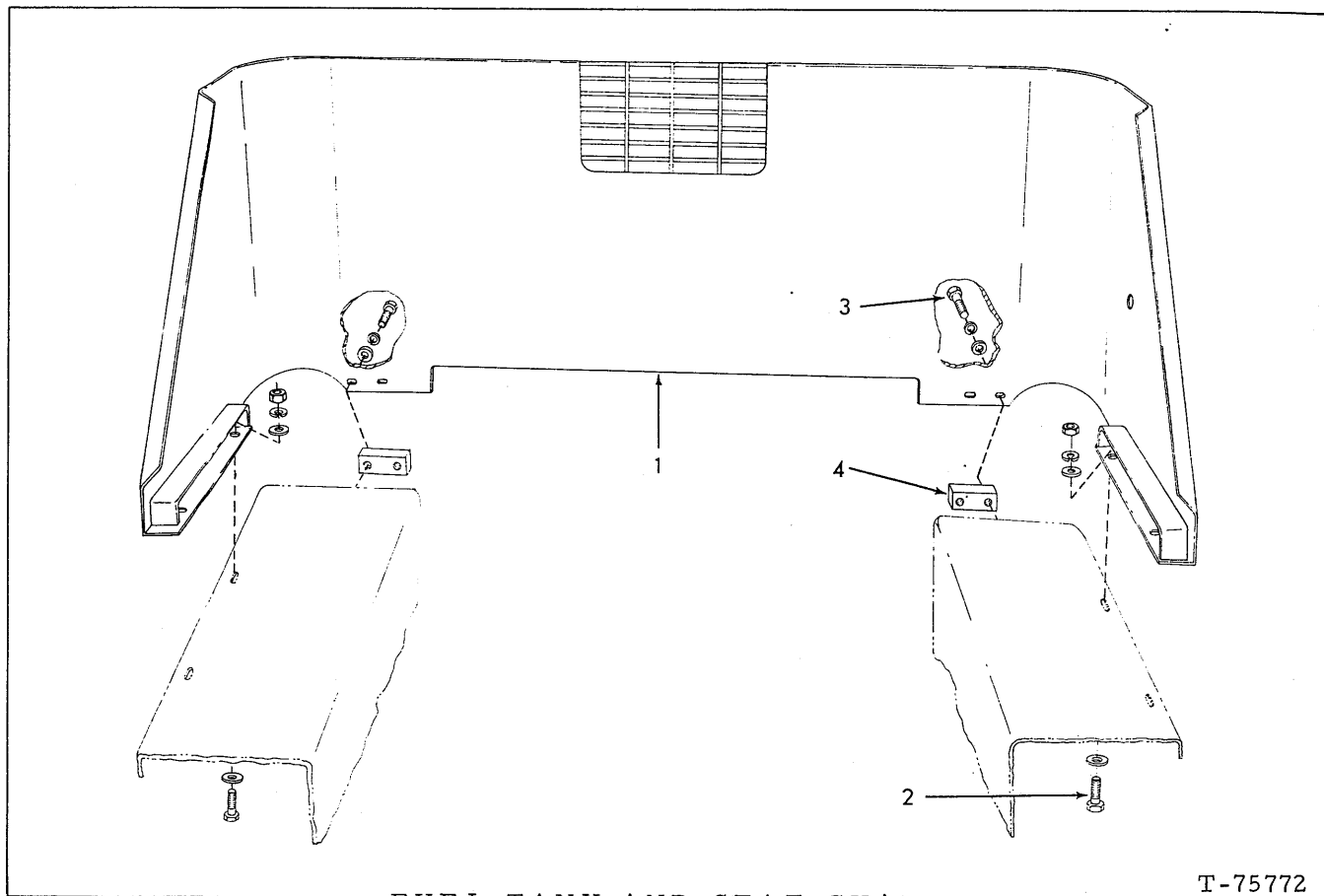


SPECIAL TOOLS

T-79183

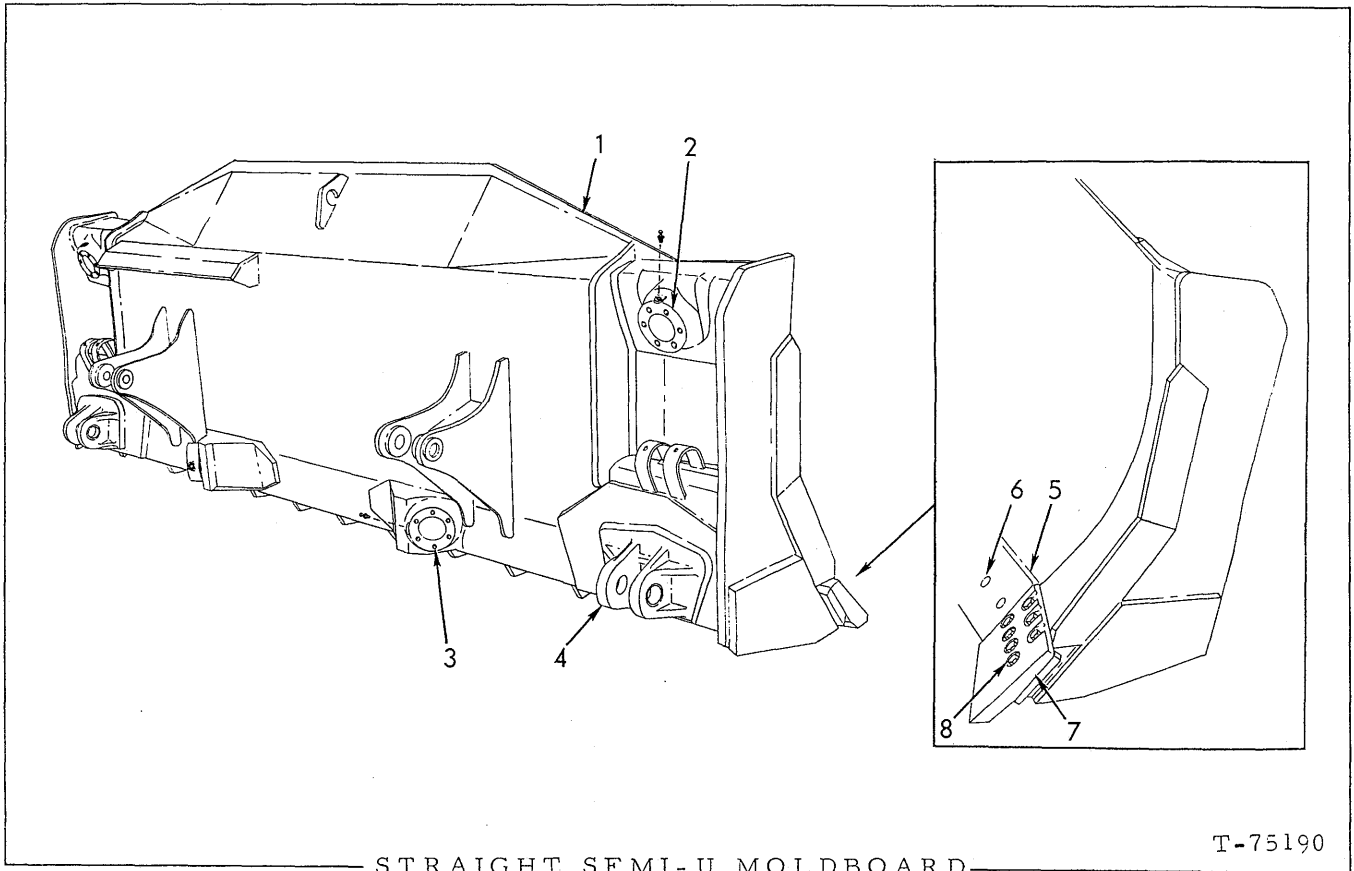
SPECIAL TOOLS

ITEM	PART NO.	QTY.	DESCRIPTION
1	70012389	1	PLIERS, slip joint, 6"
2	70012387	1	HAMMER, ball peen, 1 lb.
3	70036268	1	SCREWDRIVER, 9-3/4" long
4	70914732	1	SCREWDRIVER, Phillips #2
5	70052371	1	BAR, pinch, 16" long
6	70050611	1	WRENCH, open end, double head, 15°, 15/16" and 1-1/16"
7	70050610	1	WRENCH, open end, double head, 15°, 3/4" and 7/8"
8	70050609	1	WRENCH, open end, double head, 15°, 5/8" and 3/4"
9	70050608	1	WRENCH, open end, double head, 15°, 1/2" and 9/16"
10	70050607	1	WRENCH, open end, double head, 15°, 5/16" and 3/8"
11	70914709	1	SOCKET, 1/2" square drive, 1/2" hex
12	70914710	1	SOCKET, 1/2" square drive, 9/16" hex
13	70914711	1	SOCKET, 1/2" square drive, 5/8" hex
14	70914712	1	SOCKET, 1/2" square drive, 11/16" hex
15	70914713	1	SOCKET, 1/2" square drive, 3/4" hex
16	70914714	1	SOCKET, 1/2" square drive, 7/8" hex
17	70914715	1	SOCKET, 1/2" square drive, 15/16" hex
18	70914716	1	SOCKET, 1/2" square drive, 1" hex
19	70914717	1	BAR, extension, socket, 1/2" drive, 2" long
20	70914718	1	BAR, extension, socket, 1/2" drive, 5" long
21	70050612	1	HANDLE, socket, sliding T, 1/2" square drive, 15" long
22	70914719	1	HANDLE, socket, ratchet, 1/2" square drive



USAGE: Special equipment. Units without ROPS

ITEM	PART NO.	QTY.	DESCRIPTION
1	70660211	1	GUARD
2	70921172	6	CAPSCREW, 5/8"NC x 2-1/4"
3	70927529	4	CAPSCREW, 5/8"NF x 1-3/4"
	70677010	16	WASHER, plain
	70912942	10	LOCKWASHER, 5/8"
	70911029	6	NUT, 5/8"NC
4	70651184	2	BLOCK, tapped (Requires welding to install)



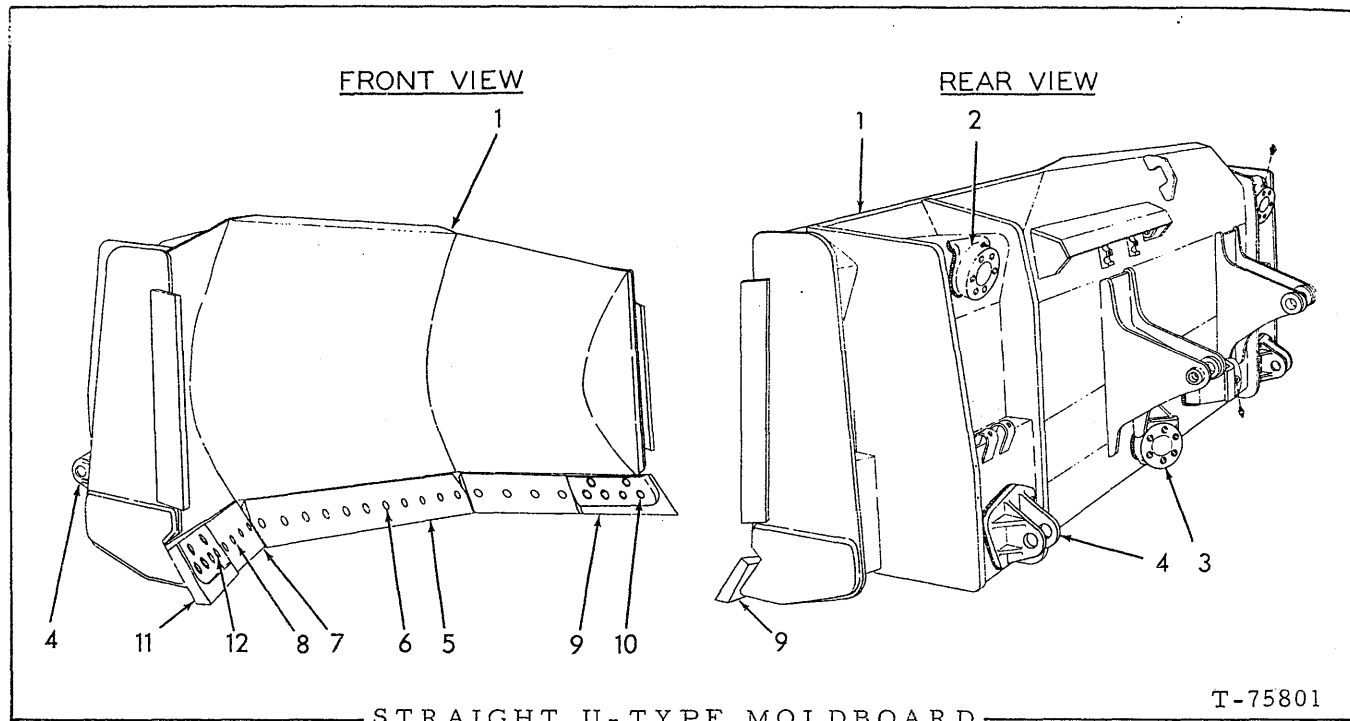
STRAIGHT SEMI- U MOLDBOARD

T-75190

USAGE: Models 21HSU, 21CSU

ITEM	PART NO.	QTY.	DESCRIPTION
1	70670230	1	MOLDBOARD ASSY. (Hydraulic units)(Includes items 2 thru 8)
	70661174	1	MOLDBOARD ASSY. (Cable units)
2	70667493	2	*SOCKET, tilt brace
	70914465	2	FITTING, lubricating, 1/8"NPT
3	70667496	2	*SOCKET WELDMENT, diagonal brace
	70914465	2	FITTING, 1/8"NPT
4	70667482	2	*LUG, attaching
5	70670252	2	EDGE, cutting (5 ft.)(Effective February 1970)
6	70661209	20	BOLT, plow, 1"NC x 3-1/4"
	70911032	20	NUT, 1"NC
7	70661213	1	BIT, left end
	70661214	1	BIT, right end
	70673081	1	BIT, left end
	70673082	1	BIT, right end
8	70927015	14	CAPSCREW, 1"NC x 3"(For use with 1-1/4" bit)
	70661209	14	BOLT, plow, 1"NC x 3-1/4"(For use with 1-3/8" bit)
	70911032	14	NUT, 1"NC

*Requires welding to install



USAGE: Optional equipment on Models 21HU

*Used prior to November 1970 (Push beam attaching lugs on 119" centers)

**Effective November 1970 (Push beam attaching lugs on 127" centers)

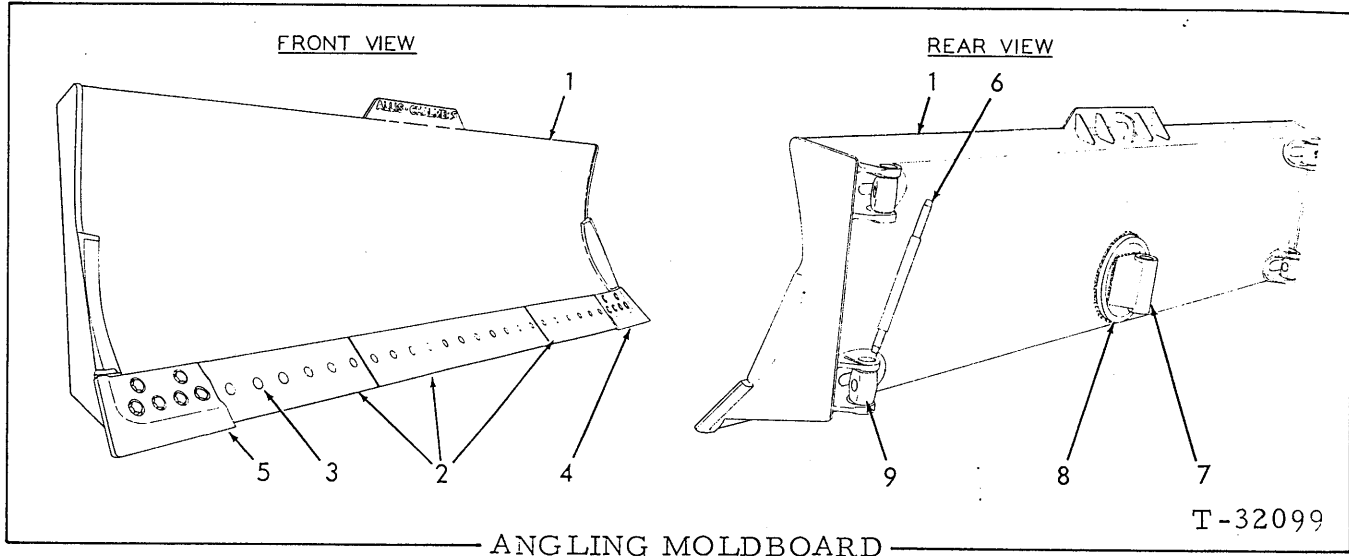
ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70670240	1 -	MOLDBOARD ASSY.
	70672570	- 1	MOLDBOARD ASSY.
Includes items 2 thru 12			
2	70651733	2 -	*SOCKET, tilt brace
	70667493	- 2	*SOCKET, tilt brace
	70914465	2 2	FITTING, lubricating, 1/8"NPT
3	70651744	2 -	*SOCKET WELDMENT, diagonal brace
	70667496	- 2	*SOCKET WELDMENT, diagonal brace
	70914465	2 2	FITTING, lubricating, 1/8NPT
4	70667482	2 2	*LUG, attaching
5	70669676	1 1	EDGE, cuuting, center section (77-3/4" long)
6	70661593	13 13	BOLT, plow, 1"NC x 3"
	70911032	13 13	NUT, 1"NC

(Continued)

STRAIGHT U - TYPE MOLDBOARD (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
7	70669675	2	2	EDGE, cutting, outer section (29-3/4" long)
8	70661593	10	10	BOLT, plow, 1"NC x 3"
	70911032	10	10	NUT, 1"NC
9	70619149	1	1	BIT, left end (Used prior to July 1974)
	70691721	-	1	BIT, left end (Effective July 1974)
10	70926785	6	6	CAPSCREW, 1"NC x 2-3/4" (Used prior to July 1974)
	70661593	6	6	BOLT, plow, 1"NC x 3" (Effective July 1974)
	70911032	6	6	NUT, 1"NC
11	70619150	1	1	BIT, right end (Used prior to July 1974)
	70691722	-	1	BIT, right end (Effective July 1974)
12	70926785	6	6	CAPSCREW, 1"NC x 2-3/4" (Used prior to July 1974)
	70661593	6	6	BOLT, plow, 1"NC x 3" (Effective July 1974)
	70911032	6	6	NUT, 1"NC

*Requires welding to install



USAGE: Model 21HA, 21CA

ITEM	PART NO.	QTY.	DESCRIPTION
1	70619654	1	MOLDBOARD ASSY. (Includes items 2 thru 9)
2	-----	1	EDGE, cutting (standard, 1" thick, 138-1/2" long) (Used prior to June 1970)(Order 1 EDGE 70675496 and 2 EDGE 70670247)
	70670247	2	EDGE, cutting (standard, 1" thick, 36-1/2" long)
	70675496	1	EDGE, cutting (standard, 1" thick, 65-1/4" long)
	70619404	1	EDGE, cutting, center section (heavy-duty, 1-1/4" thick, 41" long)
	70619720	2	EDGE, cutting, outer section (heavy-duty, 1-1/4" thick, 48-1/2" long)
3	70661209	23	BOLT, plow, 1"NC x 3-1/4"
	70911032	23	NUT, 1"NC
4	70619149	1	BIT, left end (standard, 1-3/8" thick)
	70927015	6	CAPSCREW, 1"NC x 3"
	70911032	6	NUT, 1"NC
	70691721	1	BIT, left end (Standard)
	70661209	6	BOLT, plow, 1"NC x 3-1/4"
	70911032	6	NUT, 1"NC
	70619659	1	BIT, left end (recessed for capscrews)(heavy-duty type for use with 1-1/4" thick cutting edges)
	70035420	6	CAPSCREW, 1"NF x 3-1/4"
	70600236	6	NUT, high, 1"NF
	70691743	1	BIT (recessed for plowbolts)(heavy-duty. For use with 1-1/4" thick cutting edge)
	70661209	6	BOLT, plow, 1"NC x 3-1/4"
	70911032	6	NUT, 1"NC

Effective
June 1970

Used prior
to July 1974

Effective
July 1974

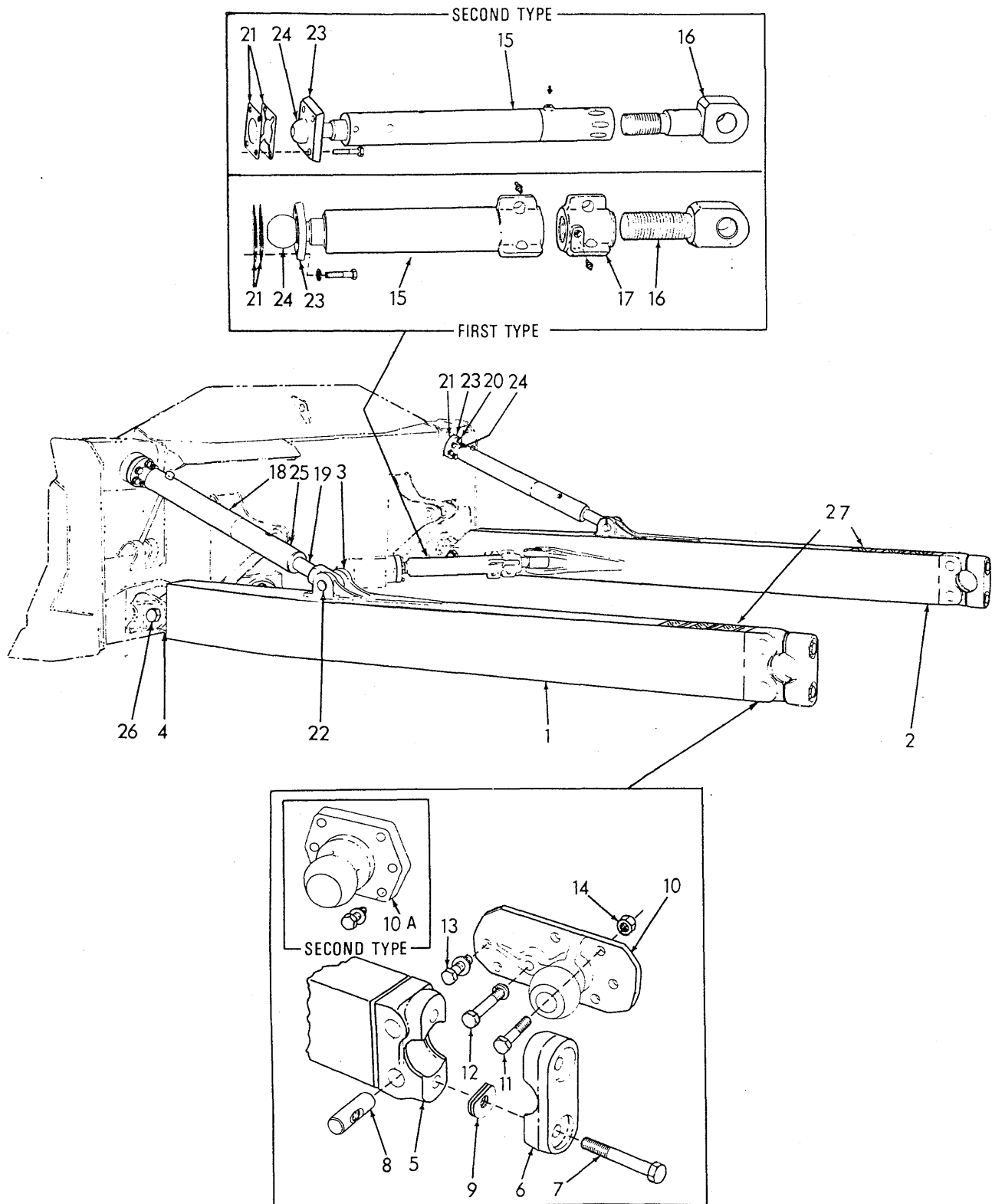
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(Revised January 1976)

ANGLING MOLDBOARD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	70619150	1	BIT, right end (standard, 1-3/8" thick)(Used prior to July 1974)
	70927015	6	CAPSCREW, 1"NC x 3"
	70911032	6	NUT, high, 1"NC
	70691722	1	BIT, right end (Standard)(Effective July 1974)
	70661209	6	BOLT, plow, 1"NC x 3-1/4"
	70911032	6	NUT, high, 1"NC
	70619660	1	BIT, right end (recessed for capscrews)(heavy-duty type for use with 1-1/4" thick cutting edges)
	70035420	6	CAPSCREW, 1"NF x 3-1/4"
	70600236	6	NUT, high, 1"NF
	70691744	1	BIT (recessed for plow bolts)(heavy-duty. For use with 1-1/4" thick cutting edge)
	70661209	6	BOLT, plow, 1"NC x 3-1/4"
	70911032	6	NUT, 1"NC
6	70609368	2	BAR, moldboard adjustment
7	70609303	1	*PIVOT, moldboard
8	70609311	1	*RING, retaining, moldboard pivot
9	70619648	4	*SWIVEL, strut attachment

*Requires welding to install



T-75435

PUSH BEAMS AND BRACES

(Revised August 1979)

PUSH BEAMS AND BRACES

USAGE: Models 21HU, 21HSU, 21CSU

* For all Semi-U moldboards and Full-U moldboards with push beam attaching lugs on 127" centers

** For Full-U moldboards with push beam mounting lugs on 119" centers (Prior to September 1970)

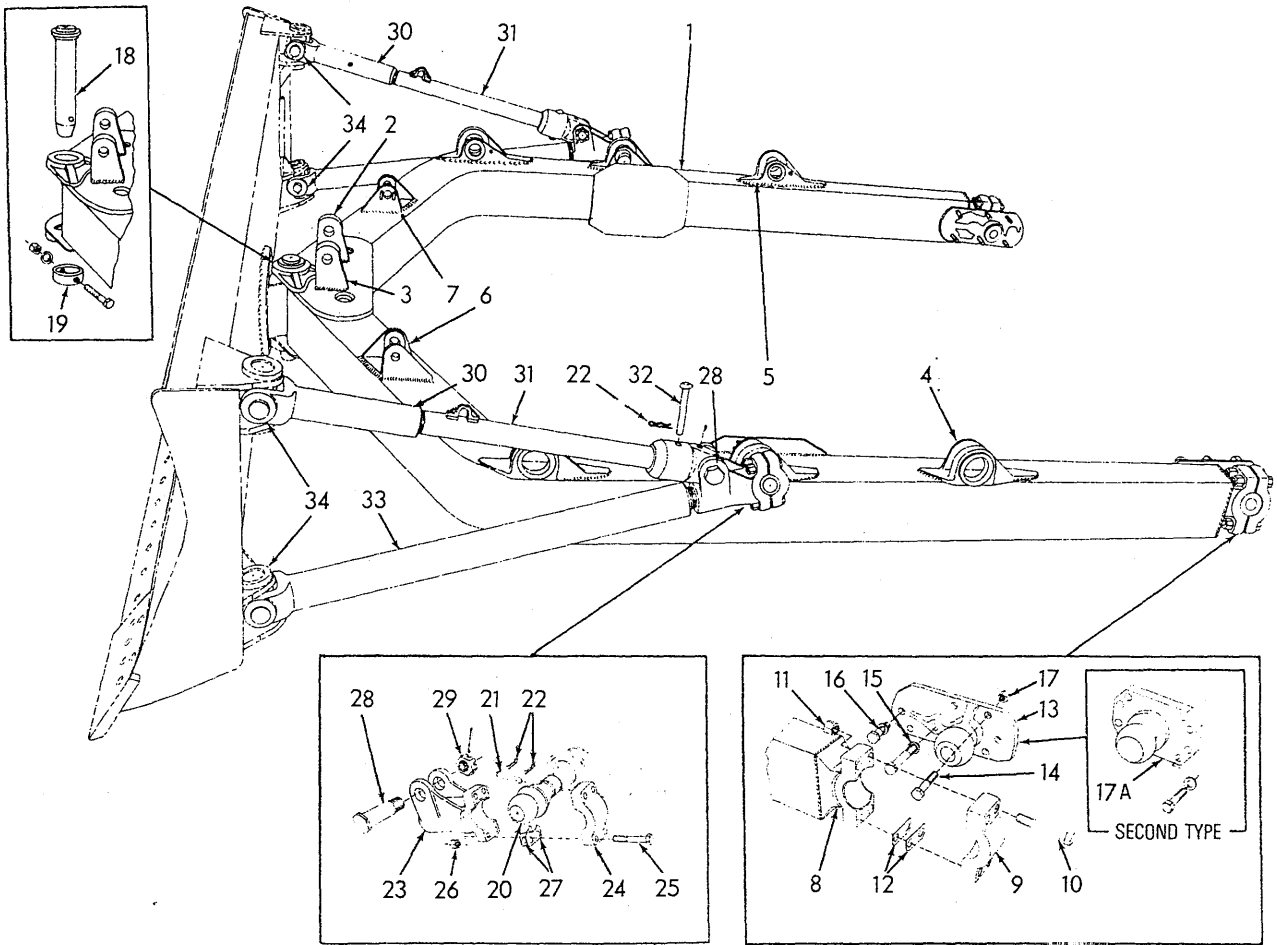
*** For Full-U moldboard with push beam mounting lugs on 119" centers (Effective September 1970)

ITEM	PART NO.	QUANTITY			DESCRIPTION	
		*	**	***		
1	70665235	1	-	-	BEAM, push, left side	Each includes items 3 thru 5
	70663035	-	1	-	BEAM, push, left side	
	70675101	-	-	1	BEAM, push, left side	
2	70665236	1	-	-	BEAM, push, right side	
	70663036	-	1	-	BEAM, push, right side	
	70675102	-	-	1	BEAM, push, right side	
3	70665208	4	-	4	* LUG, push beam	
	70612979	-	4	-	* LUG, push beam	
4	70665945	1	-	1	* HINGE, left push beam	
	70665946	1	-	1	* HINGE, right push beam	
	70651681	-	2	-	* HINGE, push beam	
5	70665094	2	-	2	* PIVOT, push beam	
	70617271	-	2	-	* PIVOT, push beam	
6	70665167	2	-	2	CAP, push beam	
	70617069	-	2	-	CAP, push beam	
7	70665160	4	-	4	CAPSCREW, 1-1/4" NC x 8"	
	70926283	-	8	-	CAPSCREW, 1" NF x 5-3/4"	
	70600236	-	8	-	NUT, high, 1" NF	
8	70665157	4	-	4	PIN, push beam cap screw	
9	70665156	40	-	40	SHIM, push beam cap (.032" thick)	Use as required
	70689324	4	-	4	SHIM, push beam cap (.125" thick)	
	70615912	-	32	-	SHIM, push beam cap (.037" thick)	
10	70617491	1	1	1	TRUNNION, left side	Tractors prior to unit #19463
	70617492	1	1	1	TRUNNION, right side	
10A	70687732	2	-	2	TRUNNION	Tractor unit #19463 and up
	70925671	12	-	12	CAPSCREW, 7/8" NC x 2-1/2"	
	70676122	12	-	12	WASHER, plain	
11	70928405	4	4	4	CAPSCREW, 1" NF x 4-1/2"	Tractors prior to unit #19463
12	70927637	2	2	2	CAPSCREW, 1" NF x 4-3/4"	
13	70925810	10	10	10	CAPSCREW, 1" NF x 3-1/2"	
	70926204	16	16	16	WASHER, plain	
14	70600236	4	4	4	NUT, high, 1" NF	
15	-----	2	2	2	BRACE ASSY., diagonal (Includes items 23 and 24)(Used prior to July 1973)(Order 1 each BRACE ASSY. 70687830, SCREW 70686974, PIN 70667156)	
	70687830	2	2	2	BRACE ASSY., diagonal (Includes items 23 and 24) (Effective July 1973)	
	70914465	2	2	2	FITTING, lubricating, 1/8" NPT	

(Continued)

MEMO

(Revised February 1978)



C - FRAME AND STRUTS

T-38220

USAGE: Models 21HA, 21CA

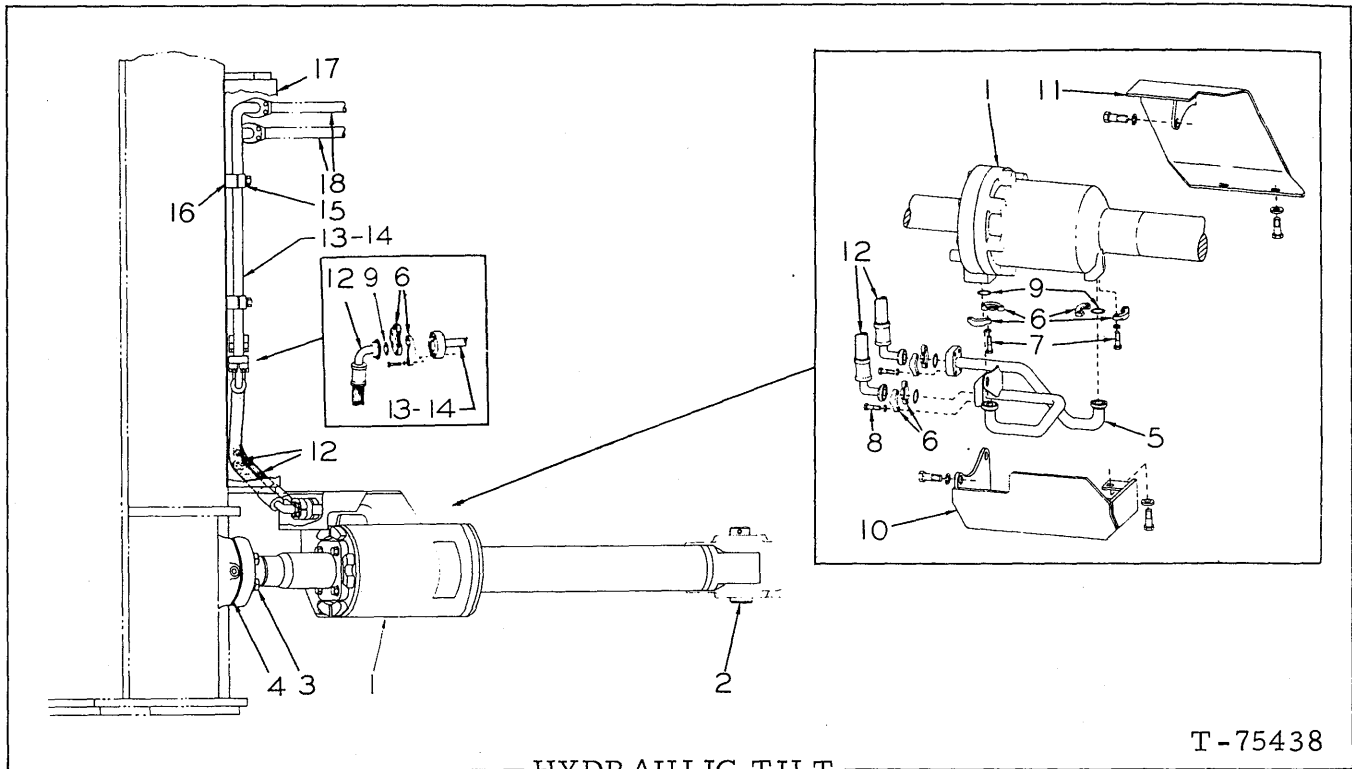
ITEM	PART NO.	QTY.	DESCRIPTION
1	70656517	1	C-FRAME (Includes items 4 thru 8)(Models 21HA. Standard)
	70665424	1	C-FRAME (Includes items 4 thru 8)(Model 21HA. Severe-service)
	70656513	1	C-FRAME (Includes items 2 thru 5 and 8)(Model 21CA)
2	70609209	1	*PLATE, lifting, right side
3	70609210	1	*PLATE, lifting, left side
4	70618083	3	*BRACKET, ball pin, left side
5	70618084	3	*BRACKET, ball pin, right side
6	70618037	1	*LUG, lifting, left side
7	70618038	1	*LUG, lifting, right side
8	70615750	2	*PIVOT, C-frame
9	70617069	2	CAP, C-frame
10	70926283	8	CAPSCREW, 1"NF x 5-3/4"
11	70600236	8	NUT, high, 1"NF

(Continued)

C - FRAME AND STRUTS (Continued)

ITEM	PART NO:	QTY.	DESCRIPTION	
12	70615912	32	SHIM, C-frame cap (.037" thick)(Use as required)	
13	{ 70617491 70617492	{ 1 1	{ TRUNNION, left side TRUNNION, right side	Tractors prior to unit #19463
14	70928405	4	CAPSCREW, 1"NF x 4-1/2"	
15	70927637	2	CAPSCREW, 1"NF x 4-3/4"	
16	70925810	10	CAPSCREW, 1"NF x 3-1/2"	
17	70600236	4	NUT, high, 1"NF	
	70926204	16	WASHER, plain	
17A	70687732	2	TRUNNION	} Tractor unit #19463 and up
	70925671	12	CAPSCREW, 7/8"NC x 2-1/2"	
	70676122	12	WASHER, plain	
18	70615696	1	PIN, moldboard pivot	
19	70615338	1	COLLAR, moldboard pivot pin	
	70929003	1	CAPSCREW, 5/8"NC x 5-1/4"	
	70912942	1	LOCKWASHER, 5/8"	
	70911029	1	NUT, 5/8"NC	
20	70615581	2	PIN, ball, strut bracket	
21	70615619	2	PIN, retaining, strut bracket ball pin	
22	70617855	6	CLIP, pin retaining	
23	70618840	2	BRACKET, moldboard strut	
24	70618173	2	CAP, strut bracket	
25	70925954	8	CAPSCREW, 3/4"NF x 4-1/2"	
26	70012767	8	NUT, high, 3/4"NF	
27	70614721	40	SHIM, strut bracket cap (Use as required)	
28	70609361	2	BOLT, upper strut	
29	70606702	2	NUT, upper strut bolt (slotted, 1-3/4"NF)	
	70911069	2	PIN, cotter, 5/16" x 3"	
30	{ 70619841 70619275	{ 2 2	{ CLEVIS, upper strut (Standard. 2-1/2"NC thread) CLEVIS, upper strut (Heavy-duty. 3-1/2"NC thread)	
	70914465	2	FITTING, lubricating, 1/8"NPT	
31	{ 70609355 70619274	{ 2 2	{ STRUT, upper (Standard. 2-1/2"NC thread) STRUT, upper (Heavy-duty. 3-1/2"NC thread)	
	70914465	2	FITTING, lubricating, 1/8"NPT	
32	70618692	2	PIN, strut locking	
33	70619840	2	STRUT, lower	
34	70609122	4	PIN, moldboard strut	
	70918245	4	PIN, spring, 1/2" x 2-1/2"	

*Requires welding to install



T-75438

HYDRAULIC TILT

USAGE: Special equipment. Replaces standard manual tilt on one side of unit.

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	CYLINDER ASSY., tilt (See pages 304 and 306)
2	70609122	1	PIN, tilt cylinder
	70918245	1	PIN, spring, 1/2" x 2-1/2"
3	70606342	6	CAPSCREW, tilt cylinder (7/8" NC x 3")
	70905347	6	LOCKWASHER, 7/8"
4	70609389	8	SHIM, cylinder socket (Use as required)
5	70659320	1	TUBE WELDMENT (Early units)
	70698044	1	TUBE WELDMENT
	70925954	2	CAPSCREW, 3/4" NF x 4-1/2"
	70930370	2	WASHER
6	70921115	12	FLANGE, connecting (half only)
7	70927342	8	CAPSCREW, 3/8" NF x 1-1/8" (Early units)
	70921076	8	CAPSCREW, 3/8" NC x 1-1/4" (Late units)
8	70921076	24	CAPSCREW, 3/8" NC x 1-1/4"
	70930370	30	WASHER
9	70924110	6	O-RING, sealing, cylinder hoses
10	70667740	1	GUARD, cylinder tubes lower
	70921411	1	CAPSCREW, 5/8" NC x 1-1/2"
	70677010	1	WASHER
	70922726	2	CAPSCREW, 1/2" NF x 1-1/2"
	70677008	2	WASHER
11	70667737	1	GUARD, cylinder tubes, inner
	70921411	1	CAPSCREW, 5/8" NC x 1-1/2"
	70677010	1	WASHER
	70920583	2	CAPSCREW, 1/2" NC x 1-1/2"
	70677008	2	WASHER
12	70665685	2	HOSE, cylinder (See HOSE PARTS)
13	70665681	1	TUBE, upper hydraulic line

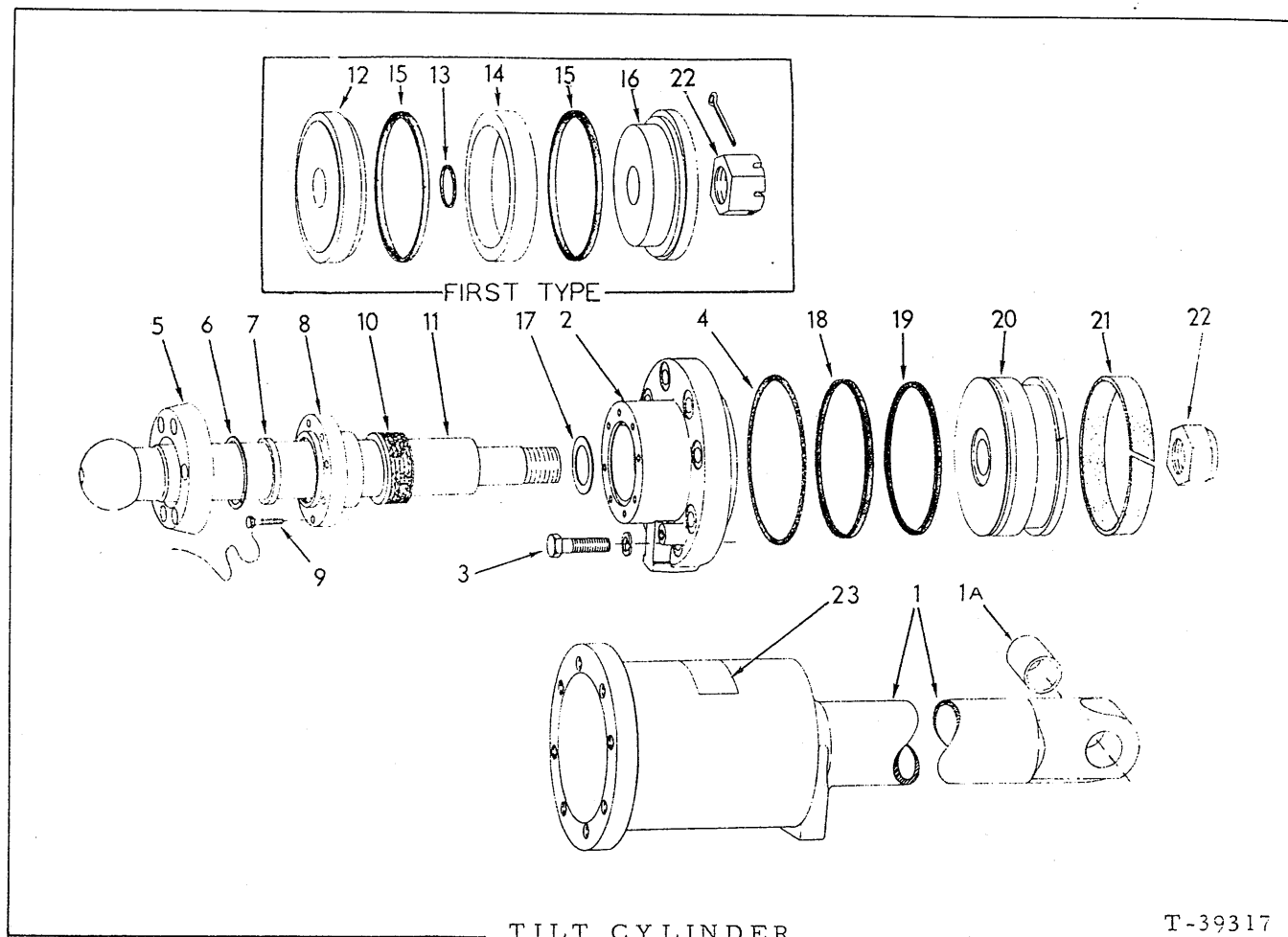
Late units. Use
with HEAD
73062228

(Continued)

(Revised May 1976)

HYDRAULIC TILT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
14	70665665	1	TUBE, lower, hydraulic line
15	70645609	2	CLAMP, tube supporting (plain hole)
	70922726	2	CAPSCREW, 1/2"NF x 1-1/2"
	70677008	2	LOCKWASHER, 1/2"
16	70645610	2	CLAMP, tube supporting (threaded hole)(Requires welding to dozer moldboard)
17	70665689	1	GUARD, moldboard hydraulic lines (Requires welding to install)
18	-----	2	HOSE, (See HYDRAULIC TILT PIPING)



TILT CYLINDER

T-39317

USAGE: Used prior to October 1972. See page 302

* Used prior to May 1970

** Effective May 1970

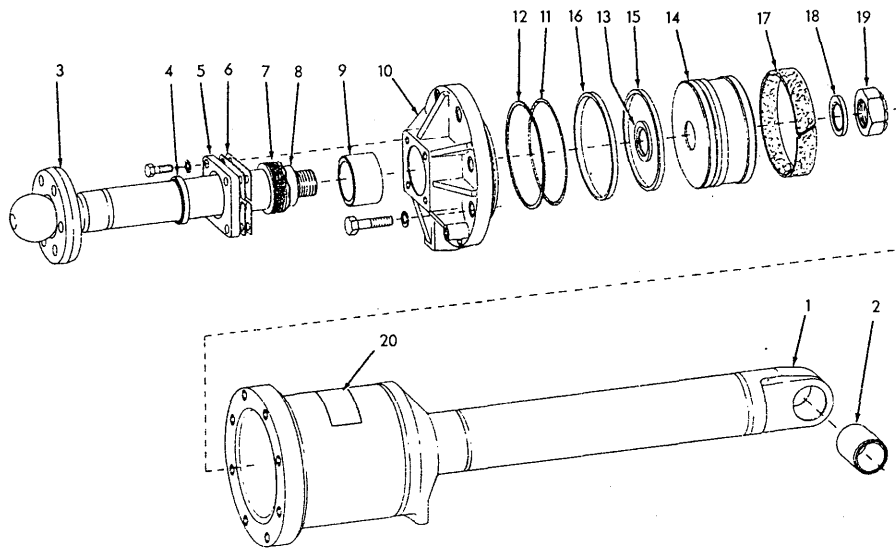
ITEM	PART NO.	QTY.	DESCRIPTION
-	70653731	1	- CYLINDER ASSY. (Includes items 1 thru 16, 22 and 23) (Order Cylinder Assy. 3055462-0)
-	73055462	- 1	CYLINDER ASSY. (Includes items 1 thru 11 and 17 thru 23)
1	70653730	1	1 CYLINDER (Includes item 1A)
1A	73057408	1	1 BUSHING
2	70636792	1	1 COVER, cylinder
3	70923137	8	8 CAPSCREW, 3/4" NF x 3"
	70904369	8	8 LOCKWASHER, 3/4"
4	70928941	1	1 RING, sealing, cylinder cover
5	70651704	1	1 COLLAR, piston rod
6	70627994	1	- RING, seal retaining
	70926978	- 1	RING, seal retaining
7	70619965	1	1 SEAL, piston rod wiping
8	70636795	1	1 RETAINER, rod seal
9	70636796	8	8 CAPSCREW, drilled-hd., 3/8" NF x 1-7/8"
	70023756	1	1 WIRE, locking, 1/16" x 26"

(Continued)

(Revised September 1976)

TILT CYLINDER (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION	
10	{ 70618563	1 -	PACKING SET, piston rod	
	{ 73047563	- 1	□ PACKING SET, piston rod	
11	{ 70637102	1 -	ROD, piston	
	{ 73055463	- 1	ROD, piston	
12	-----	1 -	PISTON, front	} Original equipment. Order item 17 thru 21
13	-----	1 -	RING, sealing, front piston	
14	-----	1 -	RING, piston	
15	-----	2 -	PACKING, piston	
16	-----	1 -	PISTON, rear	
17	{ 73057587	1 -	SPACER, piston (Service replacement)	
	{ 73054108	- 1	SPACER, piston	
18	73053715	1 1	□RING, piston, outer	
19	70926822	1 1	□RING, piston, inner	
20	{ 73057585	1 -	PISTON (Service replacement)	
	{ 73059271	- 1	PISTON	
21	73053716	1 1	□RING, piston wear	
22	{ 70625969	1 -	NUT, piston rod	
	{ 70910534	1 -	PIN, cotter, 1/4 " x 2-3/4"	
	{ 70929290	- 1	NUT, piston rod	
23	70635335	1 1	TRANSFER, caution	
24	73055467	- 1	REPAIR KIT (Includes items 4, 7, 10, 18, 19 and 21)	



TILT CYLINDER

T-78290

USAGE: See page 302. Effective October 1972

ITEM	PART NO.	QTY.	DESCRIPTION
-	73061762	1	CYLINDER ASSY. (Includes items 1 thru 20)
1	73061081	1	CYLINDER ASSY. (Includes item 2)
2	73057408	1	BUSHING
3	70651704	1	COLLAR, piston rod
4	73052942	1	☐ WIPER, piston rod
5	73059354	1	PLATE, retaining
	70915987	4	CAPSCREW, 1/2" NC x 1-1/2"
	70904208	4	LOCKWASHER, 1/2"
6	73054488	4	☐ SHIM (.029" thick)
7	73054073	1	☐ PACKING SET, piston rod
8	73055463	1	ROD, piston
9	73054072	1	BUSHING, rod (Early units)
10	73061759	1	HEAD, cylinder (Early units. Used with item 9)
	73062228	1	HEAD, cylinder (Late units)
	70921170	6	CAPSCREW, 3/4" NF x 2-1/2" (2 additional required for HEAD 73061759)
	70924815	2	CAPSCREW, 3/4" NF x 4" (For HEAD 73062228 only)
	70904369	8	LOCKWASHER, 3/4"
11	70927171	1	☐ RING, sealing, cylinder cover
12	70930345	1	☐ RING, back up
13	73054108	1	SPACER, piston (Early units)
14	73059271	1	PISTON
15	70926822	1	☐ RING, piston, inner

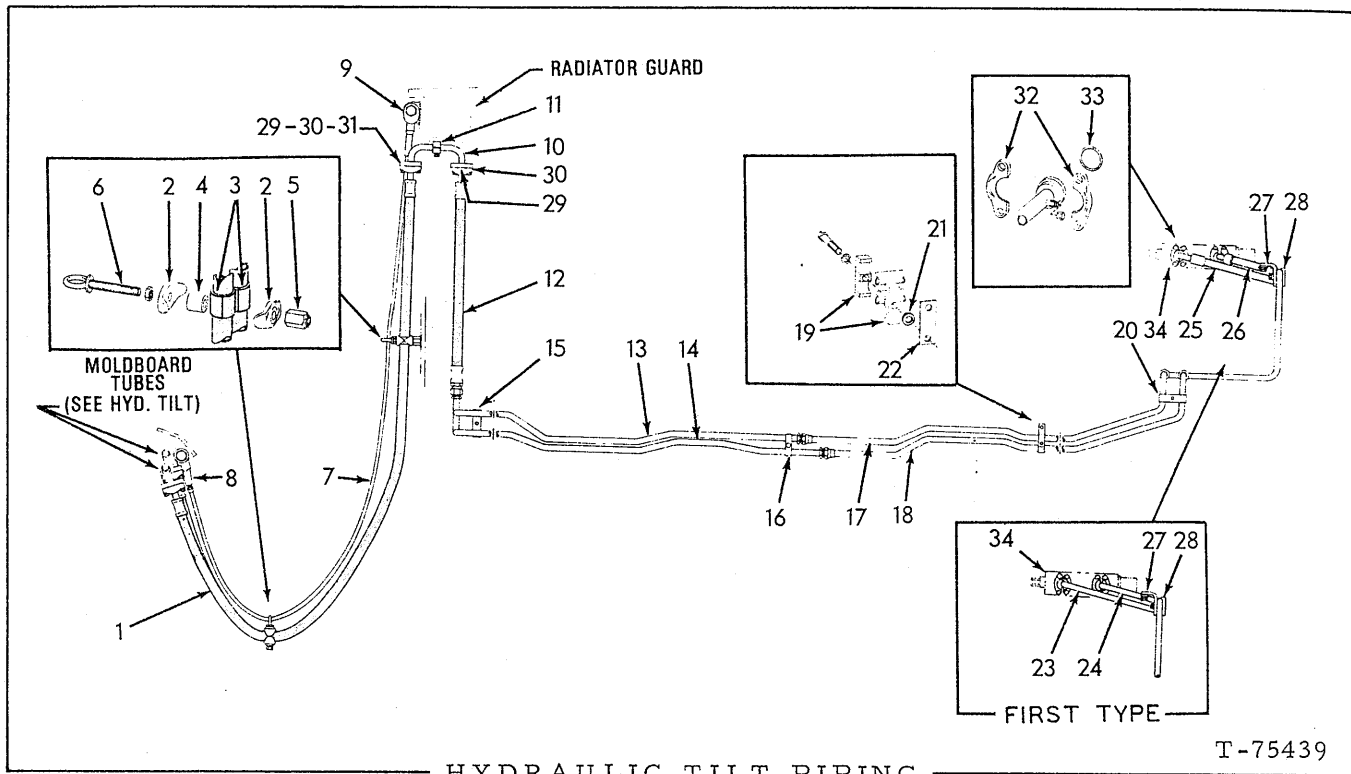
(Continued)

TILT CYLINDER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
16	73053715	1	☐ RING, piston, outer
17	73053716	1	☐ RING, piston wear
18	73054108	1	SPACER, nut
19	73073214	1	NUT, piston rod (self-locking)
20	70635335	1	TRANSFER, caution
21	73056933	1	REPAIR KIT (Includes items 4, 6, 7, 11, 12, 15, 16 and 17)

☐ Components of item 21

(Revised August 1979)



HYDRAULIC TILT PIPING

T-75439

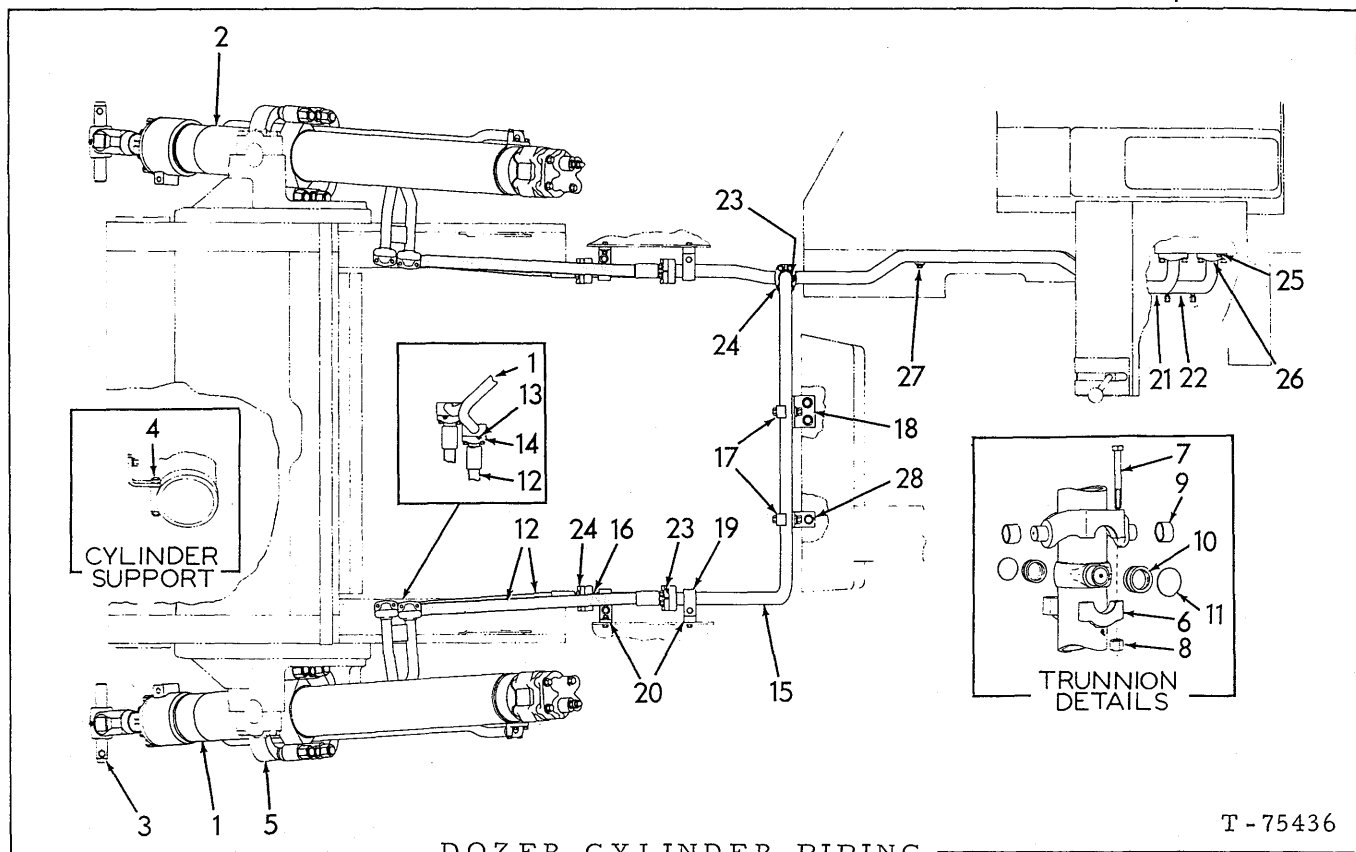
USAGE: Special equipment prior to serial No. 10S18567; standard thereafter

ITEM	PART NO.	QTY.	DESCRIPTION
1	70660690	2	HOSE, front (See HOSE PARTS)
2	70619966	4	CLAMP, front hose supporting
3	70670217	4	BOOT, hose protecting (Effective February 1970)
4	70645440	2	SPACER, hose clamp (Used prior to February 1970)
	70613231	2	BLOCK, base clamp spacing (Effective February 1970)
5	70646661	1	NUT, cable eye-bolt (Requires welding to install)
6	70667711	2	EYE-BOLT, cable guiding
	70911035	1	NUT, jam, 1/2"NC
	70911028	1	NUT, 1/2"NC
	70677008	1	WASHER, plain
7	70667712	1	CABLE, hose supporting
	70927344	1	CAPSCREW, 7/8"NC x 4"
	70921039	1	NUT, 7/8"NC
8	70668814	1	FITTING, hose supporting cables (Includes capscrew and nut)
9	70668813	1	LUG, cable attachment (Requires welding to install)
10	70659322	2	TUBE, upper
11	70659327	2	CLAMP, upper tube
	70927174	1	CAPSCREW, 3/8"NC x 2-1/2"
	70910287	1	LOCKWASHER, 3/8"
12	70665641	2	HOSE, intermediate (See HOSE PARTS)
13	70667531	1	TUBE, front section, upper
14	70667530	1	TUBE, front section, lower
15	70659327	1	CLAMP, front tubes (front position)
	70921565	1	CAPSCREW, 3/8"NC x 1-1/2"
	70910287	1	LOCKWASHER, 3/8"

(Continued)

HYDRAULIC TILT PIPING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
16	70627917	2	CLAMP, front tubes (rear position)
	70920996	1	CAPSCREW, 3/8"NC x 2-1/4"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
17	70667528	1	TUBE, intermediate section, upper
18	70667529	1	TUBE, intermediate section, lower
19	70080116	2	BLOCK, supporting, intermediate tubes (front position)
	70927218	1	CAPSCREW, 3/8"NC x 2-3/4"
	70910287	1	LOCKWASHER, 3/8"
20	70659327	2	CLAMP, supporting, intermediate tubes (rear position)
	70927218	1	CAPSCREW, 3/8"NC x 2-3/4"
	70910287	1	LOCKWASHER, 3/8"
21	70922465	2	WASHER, clamp spacing (1/8" thick)
22	70646245	2	STRAP, supporting, battery cable clip
	70922300	2	CAPSCREW, 3/8"NC x 3/4"
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
23	70665615	1	TUBE, rear section (front) (Used prior to February 1970)
	70921467	1	CAP, flare fitting, 1/4" tube
	70669370	1	TUBE, rear section (front hose)(Effective February 1970)
	70921244	1	CAP, flare fitting, 3/4" tube
24	70665616	1	TUBE, rear section (rear) (Used prior to February 1970)
	70921467	1	CAP, flare fitting, 1/4" tube
	70669369	1	TUBE, rear section (rear hose)(Effective February 1970)
	70921244	1	CAP, flare fitting, 3/4" tube
25	70669220	1	HOSE, rear section (front)(See HOSE PARTS)
26	70669245	1	HOSE, rear section (rear)
27	70665634	2	ANGLE, rear tube support
	70927172	2	CAPSCREW, 1/2"NC x 1-1/8"
	70677008	2	WASHER, plain
			1 less used effective February 1970
28	70080107	2	BLOCK, rear tube clamping
	70916273	2	CAPSCREW, 3/8"NC x 1-3/4"
	70910287	2	LOCKWASHER, 3/8"
	70044973	2	WASHER, plain
	70624928	1	BLOCK, rear tube clamping
	70924778	1	CAPSCREW, 3/8"NF x 1-3/4"
	70677006	1	WASHER, plain
			Effective February 1970
29	70924110	6	O-RING, tube connections
30	70921115	12	FLANGE, tube connecting (half only)
	70921076	24	CAPSCREW, 3/8"NC x 1-1/4"
	70910287	24	LOCKWASHER, 3/8"
31	70666575	2	PLUG, closure (Used only when lines are disconnected)
32	70921116	4	FLANGE, valve connection (half only)
	70921076	8	CAPSCREW, 3/8"NC x 1-1/4"
	70910287	8	LOCKWASHER, 3/8"
33	70924200	2	O-RING, valve connection
34	-----	1	VALVE ASSY., operating (See HYDRAULIC TANK AND CONTROL VALVE)



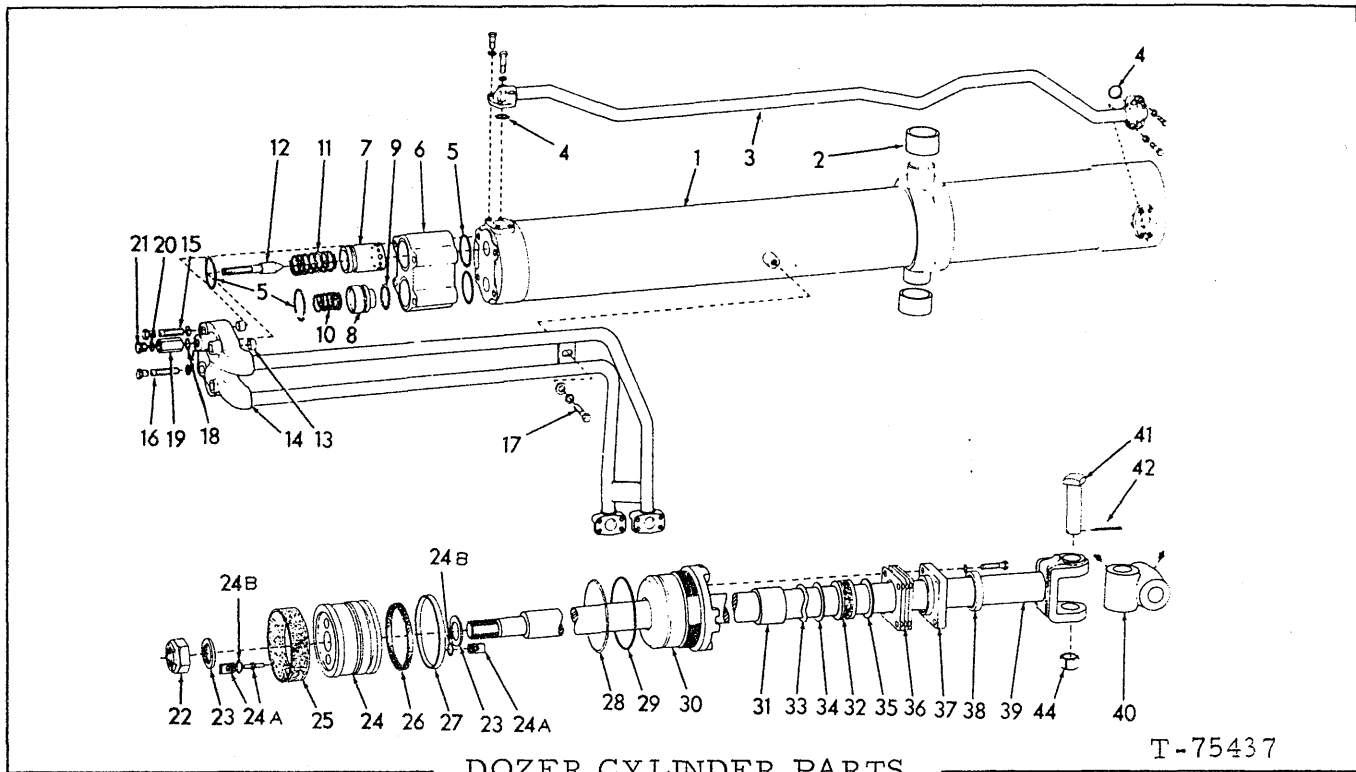
USAGE: Models 21HA, 21HU, 21HSU

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	CYLINDER ASSY, left side
2	-----	1	CYLINDER ASSY., right side
3	70649611	2	PIN, moldboard lift
	70914399	2	CAPSCREW, 1/2"NC x 3-3/4"
	70918309	2	NUT, elastic stop, 1/2"NC
4	70916265	2	CAPSCREW, 5/8"NC x 4-1/2"(For securing cylinder when blade removed)
	70914501	2	NUT, elastic stop, 5/8"NC
5	70646416	2	TRUNNION ASSY., (Includes items 6 thru 9)
	70914465	4	FITTING, lubricating, 1/8"NPT
6	70085140	4	CAP, trunnion
7	70084955	8	CAPSCREW, 1"NF x 7-1/2"
8	70600236	8	NUT, high, 1"NF
9	70609222	4	BUSHING, trunnion (2-1/2" O. D.)
10	70084581	4	BUSHING, trunnion (3" O. D.)
11	70084612	4	PLATE, trunnion closure
12	70667566	4	HOSE, cylinder
13	70924200	4	O-RING, hose upper connection

(Continued)

CYLINDER PIPING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
14	70921116	8	FLANGE, hose upper connection (half only)
	70916272	16	CAPSCREW, 3/8"NC x 1-1/4"
	70910287	16	LOCKWASHER, 3/8"
15	70667570	1	TUBE, cross, raise line
16	70667591	1	TUBE, cross, drop line
17	70657633	2	CLAMP, cross tube supporting, center
	70916318	2	CAPSCREW, 1/2"NC x 3-1/4"
	70677008	2	WASHER, plain
	70912441	2	LOCKWASHER, 1/2"
	70911028	2	NUT, 1/2"NC
18	70660517	1	ANGLE, tube supporting, center (wide)
	70916313	2	CAPSCREW, 1/2"NC x 1-3/4"
	70677008	4	WASHER, plain
	70912441	2	LOCKWASHER, 1/2"
	70911028	2	NUT, 1/2"NC
19	70667565	4	CLAMP, tube supporting, sides
	70922848	4	CAPSCREW, 3/8"NC x 3-1/4"
	70677006	8	WASHER, plain
	70911026	4	NUT, 3/8"NC
20	70667564	4	ANGLE, tube supporting, sides
	70916272	8	CAPSCREW, 3/8"NC x 1-1/4"
	70677006	8	WASHER, plain
	70910287	8	LOCKWASHER, 3/8"
	70911026	8	NUT, 3/8"NC
21	70667568	1	TUBE, raise line
	70921467	1	CAP, flare fitting, 1/4"tube
22	70667569	1	TUBE, drop line
	70921467	1	CAP, flare fitting, 1/4" tube
23	70924192	6	O-RING, tube connection, front end
24	70921117	12	FLANGE, tube connecting, front end (half only)
	70916197	24	CAPSCREW, 7/16"NC x 1-1/4"
	70914678	24	LOCKWASHER, 7/16"
25	70924193	2	O-RING, tube connection, rear end
26	70921118	4	FLANGE, tube connecting, rear end (half only)
	70920583	8	CAPSCREW, 1/2"NC x 1-1/2"
	70912441	8	LOCKWASHER, 1/2"
27	70666218	1	STRAP, tube supporting
	70921565	1	CAPSCREW, 3/8"NC x 1-1/2"
	70911115	1	WASHER, plain SAE std., 3/8"
28	70669213	1	ANGLE, tube supporting, center (narrow)
	70916313	1	CAPSCREW, 1/2"NC x 1-3/4"
	70677008	2	WASHER, plain
	70912441	1	LOCKWASHER, 1/2"
	70911028	1	NUT, 1/2"NC



USAGE: See page 310

* Left Hand Cylinder
** Right Hand Cylinder
DESCRIPTION

ITEM	PART NO.	QTY.	DESCRIPTION	
		* **		
-	70660539	1	CYLINDER ASSY. First type 5/8"NC Quick	Includes items 1 thru 39
	70660540	- 1	CYLINDER ASSY. Drop Adjustment Screw	
	73116451	1	CYLINDER ASSY. Second type 7/8"NC Quick	
	73116452	- 1	CYLINDER ASSY. Drop Adjustment Screw	
1	73052547	1	CYLINDER ASSY., (Tractors prior to unit #19986)	Each includes item 2
	73052691	1	CYLINDER ASSY., (Tractor unit #19986 and up)	
	73052548	- 1	CYLINDER ASSY., (Tractors prior to unit #19986)	
	73062692	- 1	CYLINDER ASSY., (Tractor unit #19986 and up)	
2	70609222	2	BUSHING, cylinder pivot	
3	73052609	1	TUBE, jumper	
	73052610	- 1	TUBE, jumper	
	70922763	4	CAPSCREW, 3/8"NC x 1"	
	70920996	4	CAPSCREW, 3/8"NC x 2-1/4"	
	70910287	8	LOCKWASHER, 3/8"	
4	70924200	2	O-RING, jumper tube	
5	70924274	4	O-RING, valve housing	
6	70669002	1	VALVE AND HOUSING ASSY. (Includes items 7 thru 9)	
7	-----	1	VALVE, by-pass, raise line (Not serviced separately)	
8	70650560	1	VALVE, by-pass, drop line	
9	70923578	1	O-RING, drop line by-pass valve	
10	70635447	1	SPRING, drop line valve	
11	70657207	1	SPRING, raise line valve	

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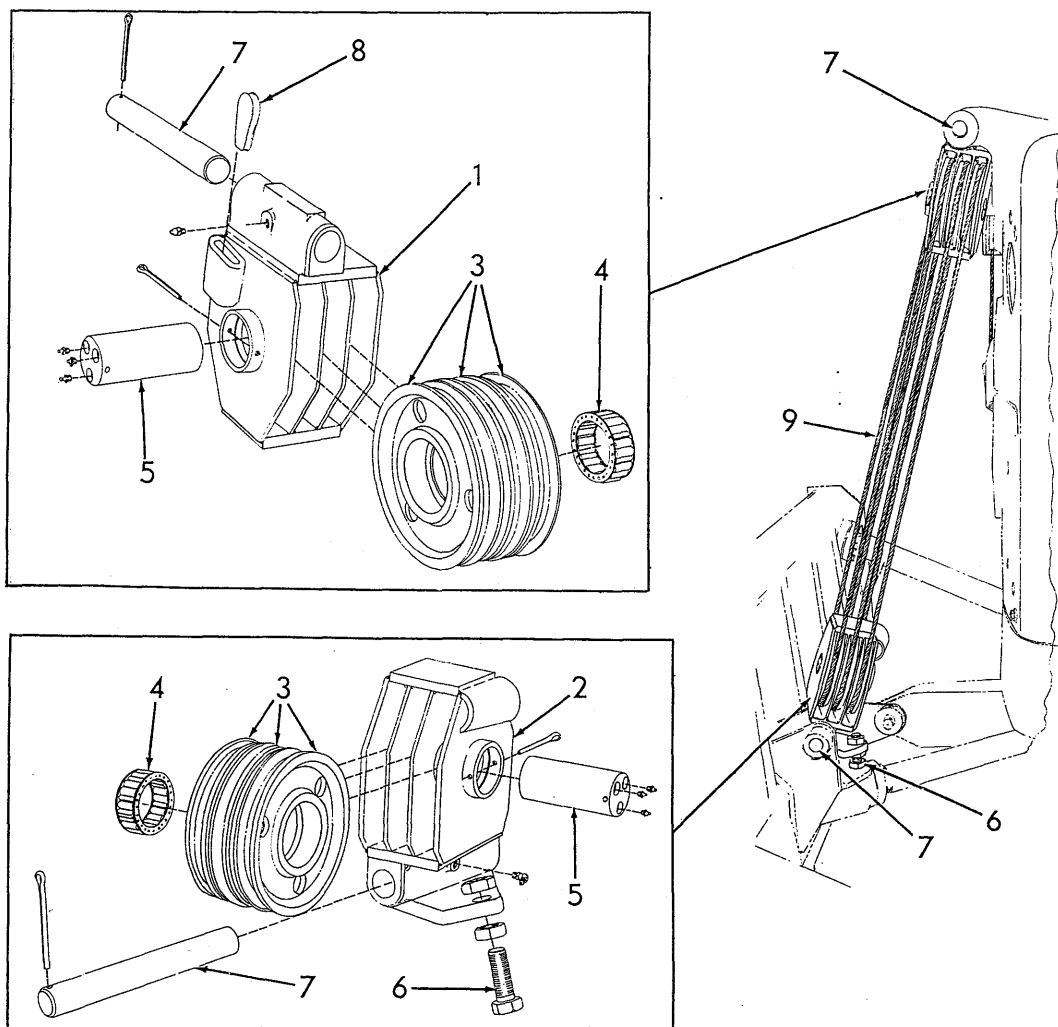
(Revised August 1979)

DOZER CYLINDER PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
12	73110369	1 1	SCREW, orifice adjustment (5/8"NC diam.)
	73116504	1 1	SCREW, orifice adjustment (7/8"NC diam.)
13	70050227	2 2	BUSHING, dowel
14	70667589	1 -	TUBE
	70667590	- 1	TUBE
	73116811	1 -	TUBE
	73116812	- 1	TUBE
			First type, 5/8" Quick Drop adjustment screw
			Second type, 7/8" Quick Drop adjustment screw
15	70927335	2 2	CAPSCREW, 5/8"NF x 6"
16	70927336	2 2	CAPSCREW, 5/8"NF x 7"
	70912942	4 4	LOCKWASHER, 5/8"
17	70927353	1 1	CAPSCREW, 1/2"NF x 1-1/2"
	70677008	1 1	WASHER, plain
18	70668394	1 1	SEAL (First type, 5/8" diam. adjustment screw)
	73116457	1 1	SEAL (Second type, 7/8" diam. adjustment screw)
19	70668387	1 1	NUT (5/8"NC)
	73116456	1 1	NUT (7/8"NC)
20	70921206	1 1	O-RING, valve access plug
21	70921204	1 1	PLUG, valve access (Includes item 20)
22	73073212	1 1	NUT, piston rod (self-locking)
23	73053977	2 2	SPACER, piston rod
24	73056262	1 1	PISTON ASSY. (Includes 4 guides and 2 Plungers)(.272" diam.) which are not serviced separately(First type)
	73059680	1 1	PISTON ASSY. (Includes item 24A)(Second type)
24A	73058925	2 2	PLUNGER - GUIDE ASSY. (Includes 1 plunger (.340" diam.) 2 guides and item 24B)
24B	70923843	4 4	O-RING
25	73052996	1 1	□ RING, piston wear
26	70926819	1 1	□ RING, piston, inner (rubber)
27	73052998	1 1	□ RING, piston, outer (teflon)
28	70924925	1 1	□ O-RING, cylinder head
29	70926635	1 1	□ RING, back-up, head o-ring
30	73052538	1 1	HEAD, cylinder
31	73054066	1 1	BUSHING, piston rod
32	73053886	1 1	□ PACKING SET, piston rod (Includes items 33 and 34)
33	-----	1 1	SPRING, wave, rod packing
34	-----	1 1	WASHER, rod packing, inner
35	73054485	1 1	WASHER, rod packing, outer
36	73054486	4 4	□ SHIM, packing plate (Used as required)
37	73051194	1 1	PLATE, packing adjustment
	70914847	4 4	CAPSCREW, 3/8"NC x 1-1/2"
	70904206	4 4	LOCKWASHER, 3/8"
38	73052879	1 1	□ WIPER, piston rod
39	73052544	1 1	ROD, piston (First type)
	73063086	1 1	ROD, piston (Includes item 44)(Second type)
40	70620703	1 1	UNIVERSAL, piston rod
	70914465	1 1	FITTING, lubricating, straight, 1/8"NPT
	70915275	1 1	FITTING, lubricating, 65°, 1/8"NPT
41	70637056	1 1	PIN, piston rod
42	70637051	1 1	PIN, Spirol, 3/8" x 2"
43	73056485	1 1	REPAIR KIT (Consists of items 25 thru 29, 32, 36, and 38)
44	70930916	2 2	BUSHING

□ Components of item 43

(Revised August 1979)



SHEAVE BLOCKS AND CABLE

T-15158

USAGE: Models 21CS, 21CA (See RADIATOR GUARD for sheaves which conduct cable to control unit)

*3-sheave type (Standard)

**4-sheave type (Optional)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
- {	70614350	1 -	BLOCK ASSY., upper (Consists of items 1, 3, 4, 5)
- {	70619955	- 1	BLOCK ASSY., upper (Consists of items 1, 3, 4, 5)
- {	70614351	1 -	BLOCK ASSY., lower (Consists of items 2 thru 6)
- {	70619957	- 1	BLOCK ASSY., lower (Consists of items 2 thru 6)

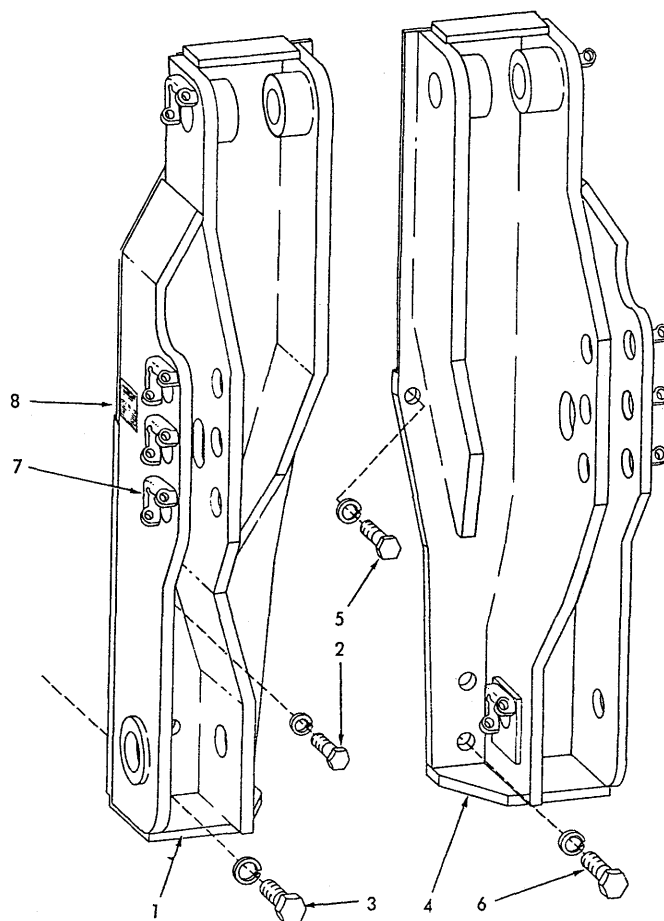
(Continued)

SHEAVE BLOCKS AND CABLE (Continued)

ITEM	PART NO.	QTY * **	DESCRIPTION
1	70609414	1 -	BLOCK, upper sheaves
	70619956	- 1	BLOCK, upper sheaves
	70914465	1 1	FITTING, lubricating, 1/8"NPT
2	70609379	1 -	BLOCK, lower sheaves
	70619954	- 1	BLOCK, lower sheaves
	70915274	1 1	FITTING, lubricating, 45°, 1/8"NPT
3	70084758	6 8	SHEAVE
4	70044875	6 8	BEARING, roller
5	70609388	2 -	SHAFT, sheave block
	70619958	- 2	SHAFT, sheave block
	70916244	2 2	PIN, cotter, 3/8" x 5"
	70914465	6 8	FITTING, lubricating, 1/8"NPT
6	70625975	1 -	CAPSCREW, lower sheave block positioning (4" long)
	70615166	- 1	CAPSCREW, lower sheave block positioning (3-1/2" long)
	70912251	2 2	NUT, jam, 1-1/4"NF
7	70609390	2 2	PIN, sheave block suspension
	70916244	2 2	PIN, cotter, 3/8" x 5"
8	70625604	1 1	WEDGE, cable anchor, upper sheave block
9	70606362	1 1	CABLE (1/2" diam. x 90' long)
	-----	- 1	CABLE (1/2" diam, x 105' long)

NOTE: Order rear corner sheave parts from Gar Wood Industries, Findlay, Ohio 45840

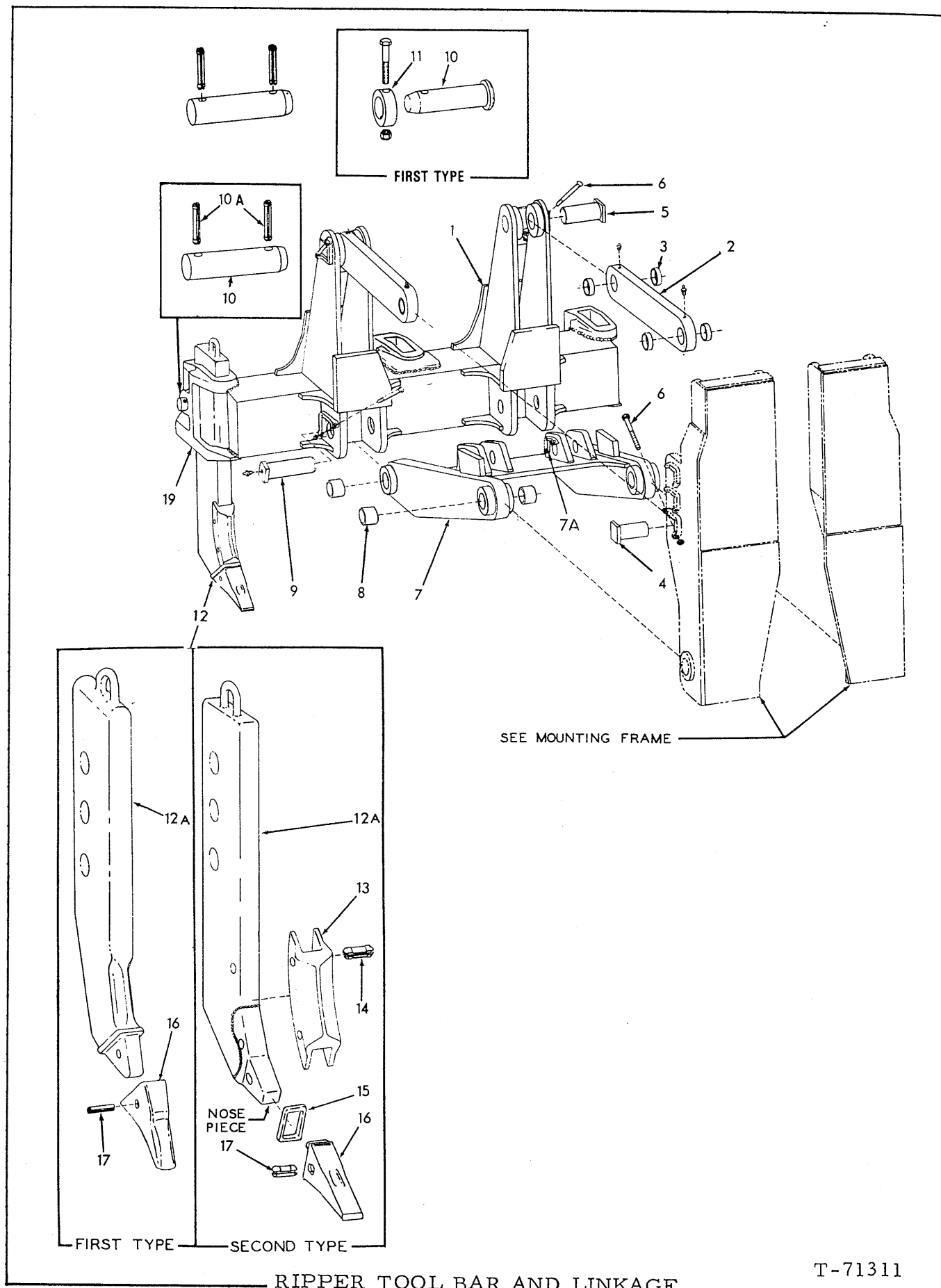
M E M O



RIPPER MOUNTING FRAME

T-71215

ITEM	PART NO.	QTY.	DESCRIPTION
1	70683253	1	FRAME, cylinder and ripper mounting, left (Includes item 7)
2	70926856	6	CAPSCREW, 1-1/4" NF x 4"
	70904210	6	LOCKWASHER, 1-1/4"
3	70926857	2	CAPSCREW, 1-1/2" NF x 4"
	70913077	2	LOCKWASHER, 1-1/2"
4	70683254	1	FRAME, cylinder and ripper mounting, right (Includes item 7)
5	70926856	6	CAPSCREW, 1-1/4" NF x 4"
	70904210	6	LOCKWASHER, 1-1/4"
6	70926857	2	CAPSCREW, 1-1/2" NF x 4"
	70913077	2	LOCKWASHER, 1-1/2"
7	70647808	10	STOP, pivot pin
8	70662243	1	TRANSFER, installation torque data



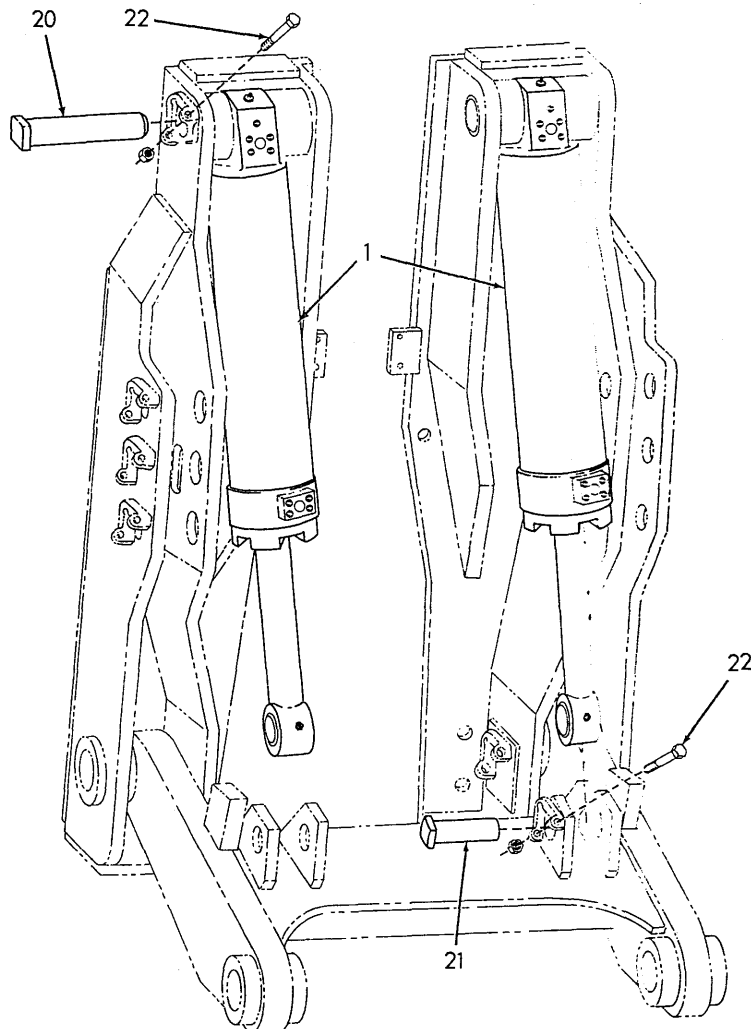
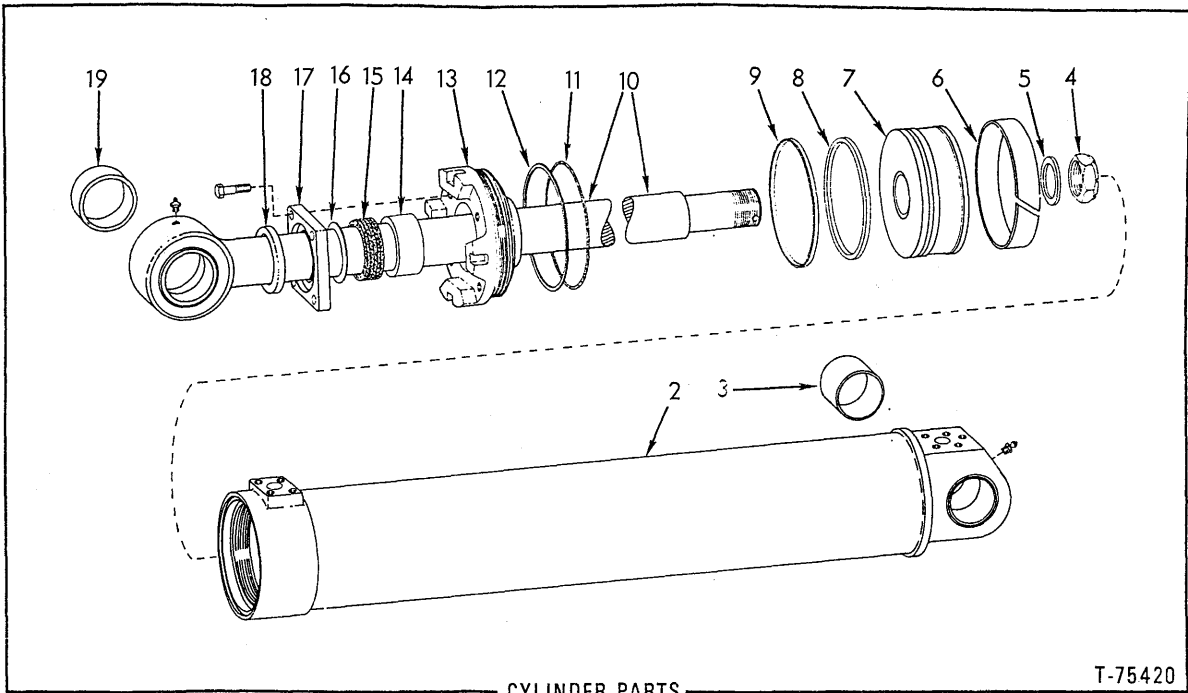
T-71311

RIPPER TOOL BAR AND LINKAGE

* With standard shanks
 ** With H & L severe-service shanks

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70647640	1 1	BAR ASSY., tool (Includes item 7A and 19)
2	70647666	2 2	STRUT ASSY., upper (Includes item 3)
	70914465	4 4	FITTING, lubricating, straight, 1/8"NPT
3	70647665	8 8	BUSHING, upper strut
4	70648173	2 2	PIN, upper strut, front
5	70648174	2 2	PIN, upper strut, rear
6	70918394	8 8	CAPSCREW, pin retaining (5/8"NC x 7")
	70914501	8 8	NUT, elastic stop, 5/8"NC
7	70647655	1 1	BEAM ASSY., lower (Includes item 7A and 8)
7A	70647808	6 6	STOP, pivot pin
8	70647656	8 8	BUSHING, lower beam
9	70648175	4 4	PIN, lower beam
	70912497	4 4	FITTING, lubricating, straight, 1/4"NPT
10	{ 70647617	3 3	PIN, shank retaining (Used prior to March 1970)
	{ 70667157	3 3	PIN, shank retaining (Effective March 1970)
10A	70667156	6 6	PIN, shank retaining pin (Effective March 1970)
11	70655185	3 3	COLLAR, shank pin (Effective June 1966)
	70916265	3 3	CAPSCREW, 5/8"NC x 4-1/2"
	70914501	3 3	NUT, elastic stop, 5/8"NC
			} Used prior to March 1970
12	{ -----	3 -	SHANK, ripper tooth (Order 70657731)
	{ 70657731	- 3	SHANK ASSY., ripper tooth (Includes items 12A thru 17)
12A	73127461	- 3	SHANK
13	70657733	- 3	□ PLATE, wear, ripper shank
14	70657736	- 6	PIN, Flex, 1" x 4-7/8"
15	70657735	- 3	□ COLLAR, ripper tooth
	{ 70647699	3 -	TOOTH, ripper shank
16	{ 70657734	- 3	□ TOOTH, ripper shank
	{ 70685542	- 3	TOOTH, ripper shank (Special. Provides greater shock resistance)
	{ 70647694	3 -	PIN, tooth retaining (Spirol, 3/4" x 4")
17	{ 70657737	- 3	□ PIN, tooth retaining (Flex, 7/8" x 4-1/4")
18	70656942	3 -	SHANK CONVERSION KIT (Includes parts for one (1) shank; items 13 thru 17; also special nose-piece, welding rod, template and instructions)
19	70647638	3 3	BRACKET (Requires welding to install)
			Components of item 18

(Revised May 1981)



RIPPER CYLINDERS

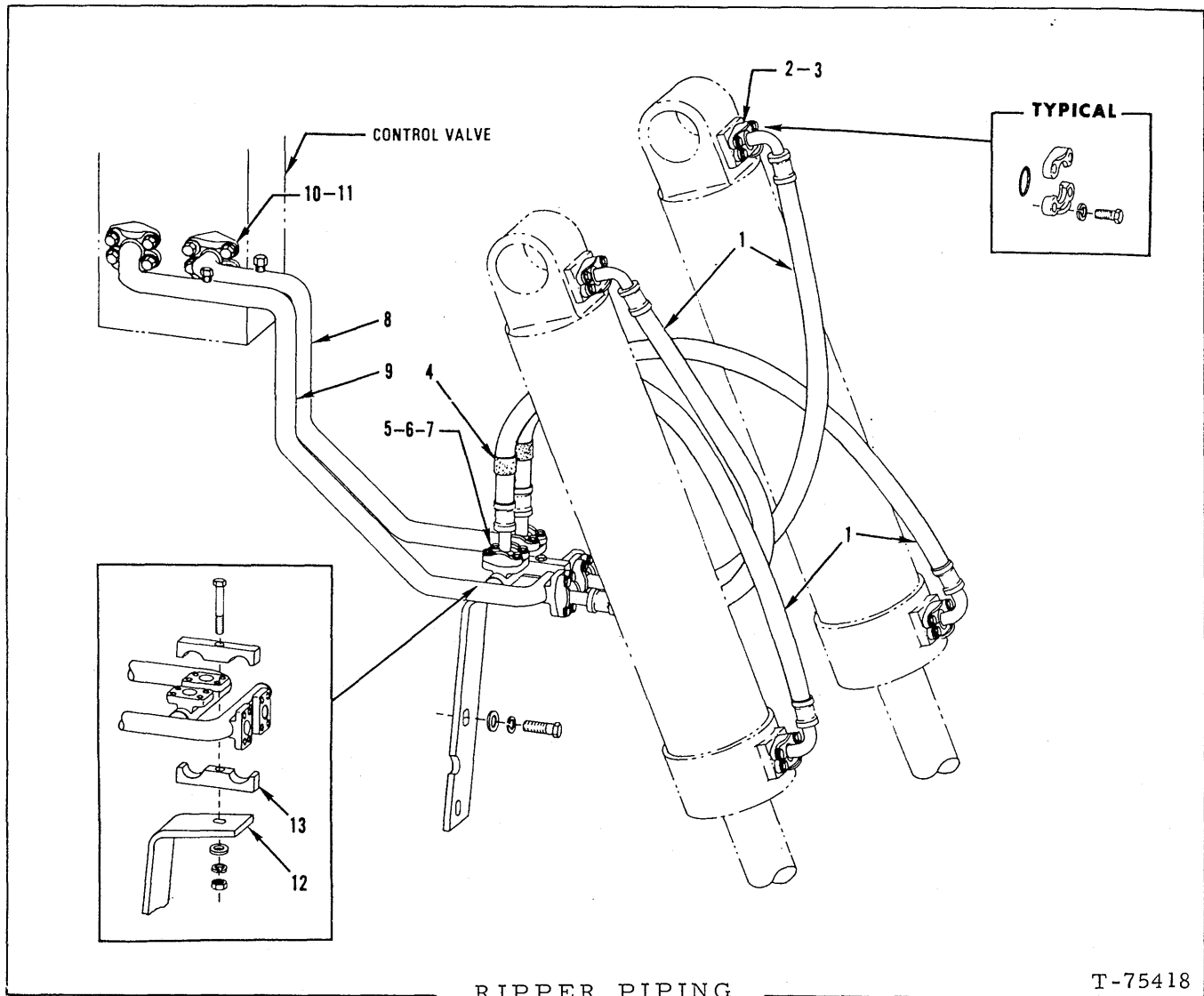
USAGE: Special equipment

* Used prior to June 1972
** Effective June 1972

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	{ -----	2 -	CYLINDER ASSY. (Consists of items 2 thru 19)(Order CYLINDER 73058692)
	73058692	- 2	CYLINDER ASSY. (Consists of items 2 thru 10 and 13 thru 19)
2	73052959	2 2	CYLINDER ASSY. (Includes item 3)
	70914465	2 4	FITTING, lubricating, 1/8"NPT
3	73008156	4 4	BUSHING, cylinder
4	{ 70926392	2 -	NUT, piston rod
	73073214	- 2	NUT, piston rod
5	73054108	2 2	SPACER, piston rod nut
6	73052992	2 2	☐ RING, piston wear
7	{ 73054095	2 -	PISTON
	73059240	- 2	PISTON
8	70926820	2 2	☐ RING, piston sealing (inner)
9	73052994	2 2	☐ RING, piston sealing (outer)
10	{ 73052954	2 -	ROD ASSY., piston (Includes item 19)
	73058518	- 2	ROD ASSY., piston (Includes item 19)
	70914465	2 4	FITTING, lubricating, 1/8"NPT
11	70931185	2 -	☐ O-RING, cylinder head
12	70926715	2 -	☐ RING, back-up, cylinder head o-ring
13	73062199	2 2	HEAD, cylinder
14	73054072	2 -	BUSHING, piston rod (Early units)
15	73054073	2 2	☐ PACKING SET, piston rod
16	73054487	2 -	WASHER, piston rod packing
16A	73054488	4 -	SHIM, adjustment, piston rod packing (Use as required)
17	{ 73052034	2 -	PLATE, packing retaining
	73059354	- 1	PLATE, packing retaining
	70915987	8 8	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	8 8	LOCKWASHER, 1/2"
18	73052942	2 2	☐ WIPER, piston rod
19	73050797	4 4	BUSHING, piston rod end
20	70681545	2 2	PIN, cylinder pivot, upper
21	70648173	2 2	PIN, cylinder pivot, lower
22	70918394	4 4	CAPSCREW, pin retaining (5/8"NC x 7")
	70914501	4 4	NUT, elastic stop, 5/8"NC
23	73056486	2 2	REPAIR KIT, cylinder (Includes parts for one (1) cylinder) (Not illustrated)

☐Components of item 23

(Revised August 1979)



RIPPER PIPING

T-75418

ITEM	PART NO.	QTY.	DESCRIPTION
1	70665638	4	HOSE, cylinder (See HOSE PARTS)
2	70921116	8	FLANGE, hose connection at cylinder end (half only)
	70921076	16	CAPSCREW, 3/8"NF x 1-1/4"
	70910287	16	LOCKWASHER, 3/8"
3	70931753	4	O-RING, hose connections at cylinder end
4	70095869	2	CLIP, raise line hose
	70927219	1	CAPSCREW, 1/2"NC x 3/4"
	70912441	1	LOCKWASHER, 1/2"
	70911028	1	NUT, 1/2"NC
5	70921115	8	FLANGE, hose connecting (half only)
	70916272	16	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	16	LOCKWASHER, 3/8"

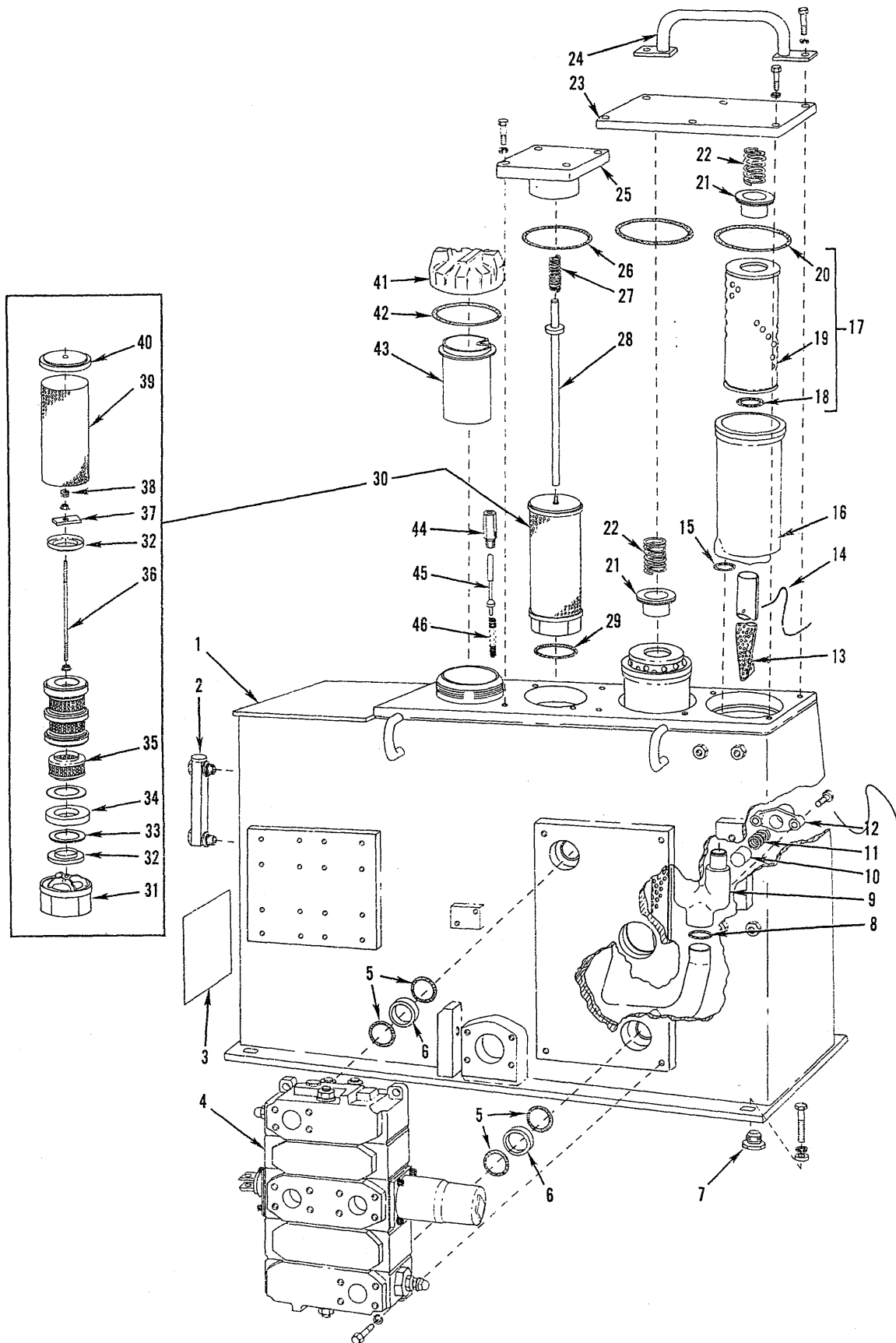
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(Revised August 1979)

<https://truckmanualshub.com/>
RIPPER PIPING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	70931857	4	O-RING, hose connections at tube end
7	70666575	4	PLUG, closure (Used only when cylinder lines are disconnected)
8	70665674	1	TUBE, raise line
	70921467	1	CAP, flare fitting, 1/4" tube
9	70665666	1	TUBE, drop line
	70921467	1	CAP, flare fitting, 1/4" tube
10	70921117	4	FLANGE, tube connecting
	70916191	8	CAPSCREW, 7/16"NC x 1-1/2"
	70904207	8	LOCKWASHER, 7/16"
11	70925919	2	O-RING, tube connection at valve end
12	70665636	1	ANGLE, tube supporting
	70920543	2	CAPSCREW, Nylok, 5/8"NC x 2"
	70064810	2	WASHER, plain
	70904209	2	LOCKWASHER, 5/8"
13	70665632	2	CLAMP, tube supporting
	70919227	1	CAPSCREW, 3/8"NC x 3-1/4"
	70044973	1	WASHER, plain
	70904206	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC

(Revised August 1979)



HYDRAULIC TANK AND CONTROL VALVE

T-75426

<https://truckmanualshub.com/>
HYDRAULIC TANK AND CONTROL VALVE

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70665651	1	TANK, hydraulic (Tractors prior to unit #17532)	
	70670280	1	TANK, hydraulic (Tractors unit #17532 and up)(Also order item 7)	
	70921403	5	CAPSCREW, 5/8" NC x 2"	
	70677010	5	WASHER, plain	
	70904209	5	LOCKWASHER, 5/8"	
2	70666282	1	GAUGE, sight, oil level (Includes capscrews and gaskets)	
3	-----	1	TRANSFER, instruction	
4	70660647	1	VALVE ASSY., control (For operating dozer only) (Standard on tractors prior to unit #18567) (Illustrated)(Order VALVE ASSY. 70686090)	See page 329 for Compo- nents
	70665122	1	VALVE ASSY., control (For operating dozer and ripper) (Special equipment on tractors prior to unit #18567)	
	70665121	1	VALVE ASSY., control (For operating dozer and hydraulic tilt)(Special equipment on tractors prior to unit #18567)	
	70662085	1	VALVE ASSY., control (For operating dozer, ripper and hydraulic tilt)(Special equipment on tractors prior to unit #18567)(Standard on units #18567 thru #19105) (Order VALVE ASSY. 70686070)	See page 330 for components
	70686070	1	VALVE ASSY., control (For operating dozer, ripper and hydraulic tilt)(Standard on unit #19106 and up)	
	70686090	1	VALVE ASSY., control (For operating dozer only) (Special equipment on unit #18567 and up)	
	70922526	4	CAPSCREW, 1/2" NC x 2-1/2"	
5	70912441	4	LOCKWASHER, 1/2"	
	70925271	4	O-RING, tank to valve (Tractors prior to unit #17532)	
	70927464	2	O-RING, tank to valve (Tractors unit #17532 and up)	
6	70655088	2	TUBE, o-ring spacing (Tractors prior to unit #17532)	
7	70921204	1	PLUG, tank drain (Includes O-ring)	
	70921206	1	O-RING	
8	70923850	1	O-RING, return line adapter	
9	70667727	1	ADAPTER ASSY., oil return line (Serviced only as a unit)	
10	70647151	1	VALVE, oil by-pass	
11	70647108	1	SPRING, oil by-pass valve	
12	70647122	1	CAP, oil by-pass valve	
	70927597	2	CAPSCREW, drilled-hd., 3/8" NC x 1-1/2"	
	70023633	1	WIRE, locking, 1/16" x 12"	
13	70665841	2	TUBE, oil discharge	
14	70023633	2	WIRE, retaining, oil discharge tube	
15	70923948	2	O-RING, filter housing	
16	70660769	2	HOUSING, oil filter	
17	70665859	1	ELEMENT KIT, filter (Consists of 2 elements and items 18 and 20)	
18	70923664	2	O-RING, oil filter element	
19	-----	2	ELEMENT, oil filter (Order item 17)	
20	70924691	2	O-RING, oil filter cover	
21	70665879	2	CAP, oil filter element (Includes bonded gasket)	
22	70665886	2	SPRING, oil filter element	

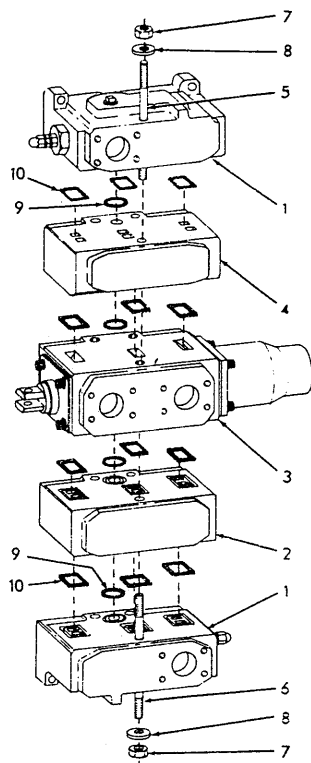
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HYDRAULIC TANK AND CONTROL VALVE (Continued)

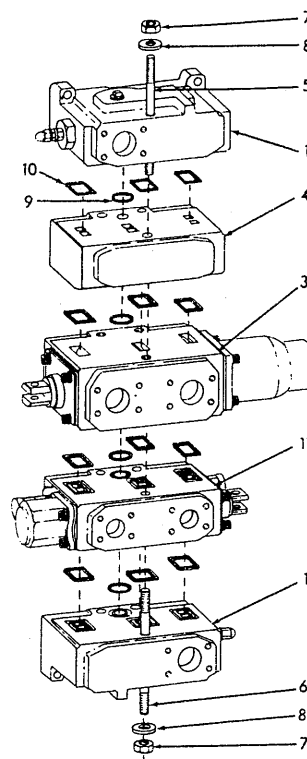
ITEM	PART NO.	QTY.	DESCRIPTION	
23	70655084	1	COVER, filters	
	70921076	4	CAPSCREW, 3/8" NC x 1-1/4"	
	70910287	4	LOCKWASHER, 3/8"	
24	70666215	1	HANDLE, grab	
	70921565	2	CAPSCREW, 3/8" NC x 1-1/2"	} Also attach filter cover
	70910287	2	LOCKWASHER, 3/8"	
25	70665763	1	COVER, contaminant separator	
	70921076	4	CAPSCREW, 3/8" NC x 1-1/4"	
	70910287	4	LOCKWASHER, 3/8"	
26	70924153	1	O-RING, separator cover	
27	70098292	1	SPRING, contaminant rod	
28	70665793	1	ROD, contaminant separator (Early units. For use with SEPARATOR 70665788)	
	70670697	1	ROD, contaminant separator (Late units. For use with SEPARATOR 70670698)	
29	70923581	1	O-RING, contaminant separator	
30	70665788	1	SEPARATOR ASSY., contaminant, suction line (Early units. Has a 7/32" diam. TIE-ROD)	} Includes items 31 thru 40
	70670698	1	SEPARATOR ASSY., contaminant, suction line (Late units. Has a 5/16" diam. TIE-ROD)	
31	70666389	1	HEAD, contaminant separator (For SEPARATOR 70665788)	
	70670741	1	HEAD, contaminant separator (For SEPARATOR 70670698)	
32	70666388	2	SPACER, contaminant separator (end)	
33	70666387	8	PLATE, contaminant separator	
34	70666385	4	MAGNET, contaminant separator	
35	70666383	3	SPACER, contaminant separator (perforated)	
36	70666386	1	TIE-ROD, contaminant separator (7/32" diam.)	
	70670699	1	TIE-ROD, contaminant separator (5/16" diam.)	
37	70666382	1	BRIDGE, contaminant separator	
38	70666381	3	NUT, contaminant separator (7/32" NC)	
	70666565	3	NUT, contaminant separator (5/16" NC)	
39	70666384	1	SLEEVE, contaminant separator	
40	70666380	1	PLATE, top, contaminant separator (For SEPARATOR 70665788)	
	70670735	1	PLATE, top, contaminant separator (For SEPARATOR 70670698)	
41	70665726	1	CAP, oil filler	
42	70923950	1	O-RING, oil filler cap	
43	70671325	1	STRAINER, filler	
44	70666634	1	GUIDE, filler pressure release valve	
45	70665767	1	PLUNGER, filler pressure release valve	
46	70666654	1	SPRING, filler pressure release valve	

M E M O

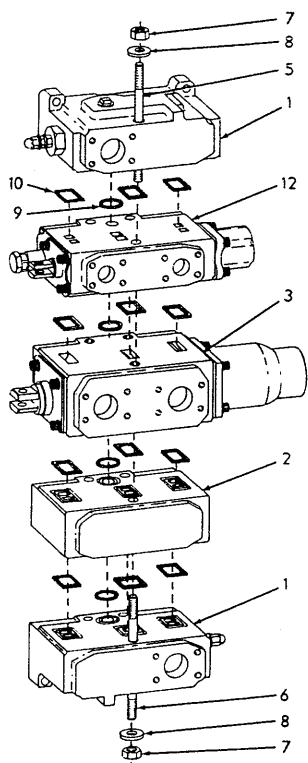
VALVE ASSY 70660647



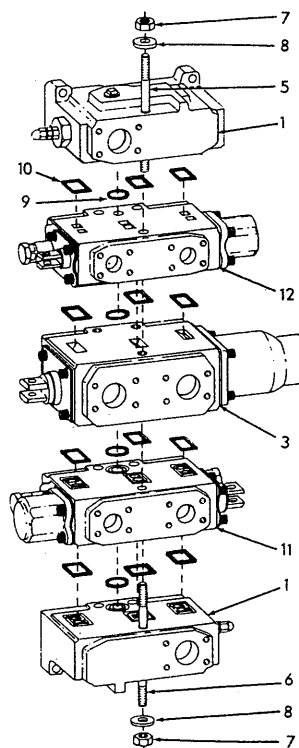
VALVE ASSY 70665122



VALVE ASSY 70665121



VALVE ASSY 70662085



CONTROL VALVES

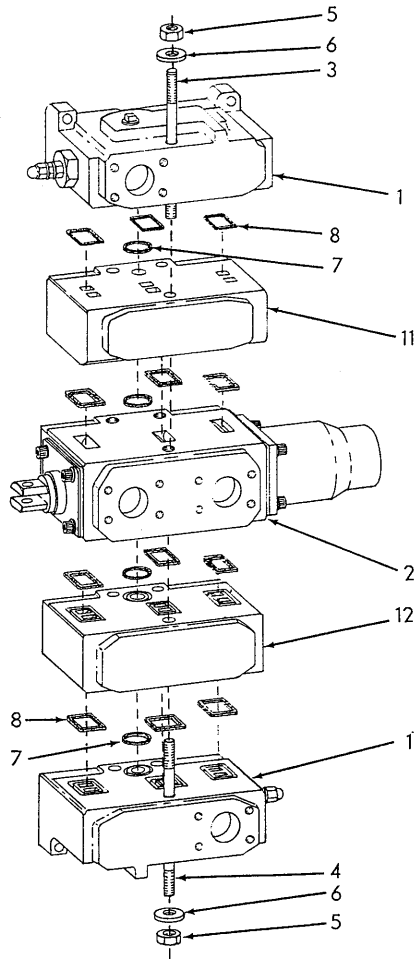
* 70660647 VALVE ASSY.
 ** 70665122 VALVE ASSY.
 Δ 70665121 VALVE ASSY.
 ΔΔ 70662085 VALVE ASSY.

} See page 325

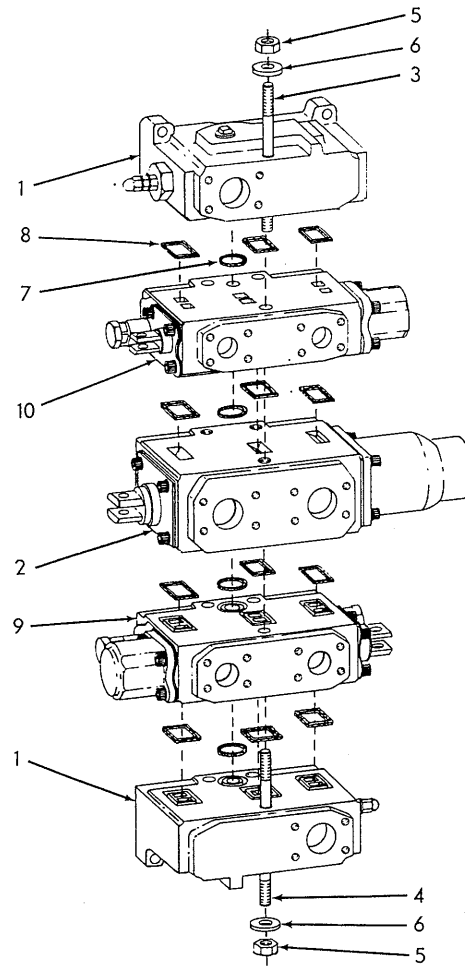
ITEM	PART NO.	QUANTITY				DESCRIPTION
		*	**	Δ	ΔΔ	
1	70664533	2	2	2	2	VALVE ASSY., relief (See page 332 for parts)
2	70663725	1	-	1	-	SPACER, lower
3	70664566	1	1	1	1	VALVE ASSY., dozer control (See page 336 for parts)
4	70664067	1	1	-	-	SPACER, upper
5	70664748	3	3	3	3	STUD, upper (7-1/2" long)
6	70664747	3	3	3	3	STUD, lower (7-7/8" long)
7	70668231	6	6	6	6	NUT, stud (5/8"NC)
8	70659494	6	6	6	6	WASHER, stud nut
9	70659496	4	4	4	4	RING, valve sealing
10	70659497	12	12	12	12	RING, valve sealing
11	70655655	-	1	-	1	VALVE ASSY., ripper control (See page 334 for parts)
12	70660869	-	-	1	1	VALVE ASSY., dozer tilt control (See page 334 for parts)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

(Revised February 1978)



VALVE ASSY. 70686090



VALVE ASSY. 70686070

T-7542-

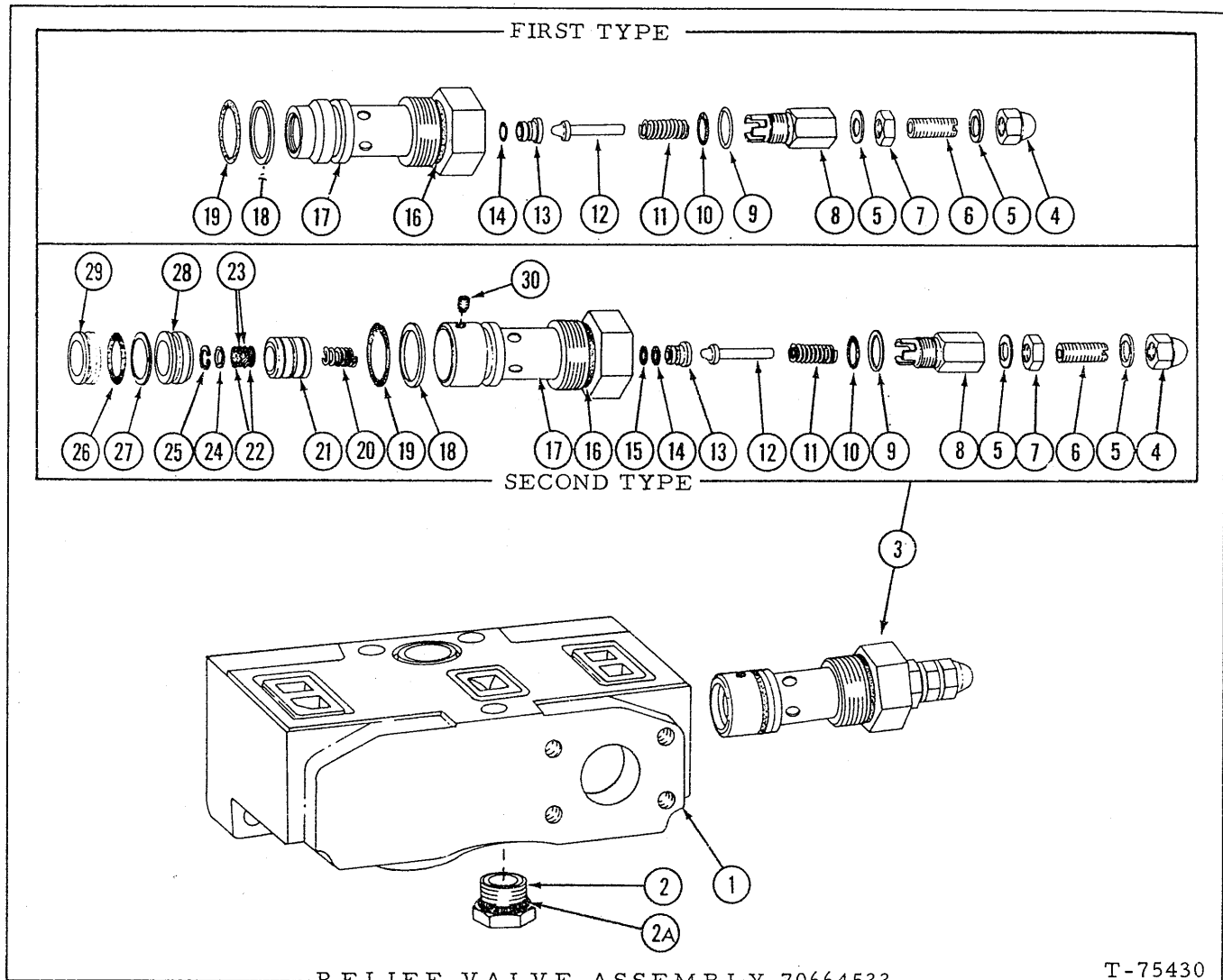
CONTROL VALVES

* 70686090 VALVE ASSY.
 ** 70686070 VALVE ASSY. } See page 325

ITEM	PART NO.	QTY.	DESCRIPTION
1	70664533	2 2	VALVE ASSY. (Second type)(See page 332)
2	70686100	1 1	VALVE ASSY. (See page 338)
3	70664748	3 3	STUD (7-1/2" long)
4	70664747	3 3	STUD (7-7/8" long)
5	70668231	6 6	NUT, 5/8" NC
6	70659494	6 6	WASHER
7	70659496	2 4	RING
8	70659497	8 12	RING
9	70655655	- 1	VALVE ASSY. (See page 334)
10	70685999	- 1	VALVE ASSY. (See page 334)
11	70664067	1 -	SPACER, upper
12	70663725	1 -	SPACER, lower (First type)
	70696088	1 -	SPACER, lower (Second type)

(Revised May 1976)

MEMO



RELIEF VALVE ASSEMBLY 70664533

T-75430

USAGE: See page 330

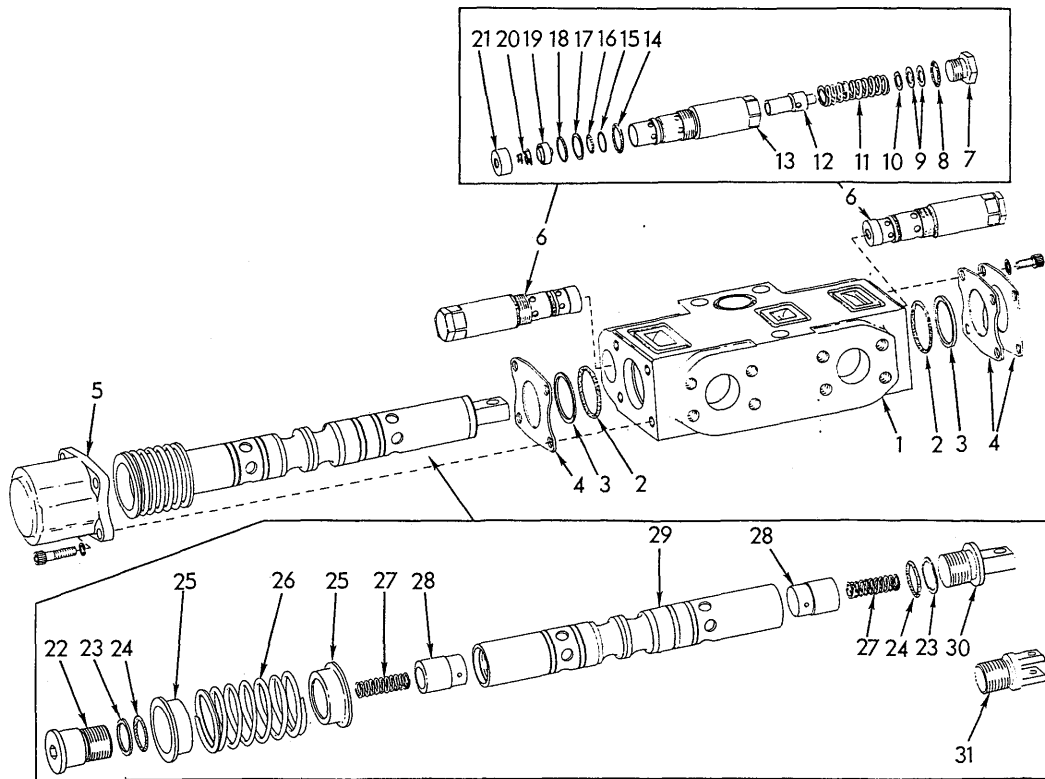
* First type
** Second type

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
1	-----	1	1	HOUSING (Not serviced separately)
2	70921204	1	1	PLUG (Includes item 2A)
2A	70921206	1	1	O-RING
3	70669198	1	-	VALVE ASSY. (Consists of items 4 thru 14 and 16 thru 19)
	70683795	-	1	VALVE ASSY. (Consists of items 4 thru 30)
4	70916559	1	1	NUT (3/8"NF acorn)
5	70668552	2	2	GASKET
6	70668550	1	1	SCREW
7	70910329	1	1	NUT, jam, 3/8"NF
8	70668551	1	1	RETAINER

(Continued)

RELIEF VALVE ASSEMBLY 70664533 (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
9	70668548	1	1	GASKET
10	70923846	1	1	O-RING
11	70668555	1	-	SPRING
	70684439	-	1	SPRING
12	70669188	1	1	POPPET
13	70669189	1	-	SEAT
	70684438	-	1	SEAT
14	70926356	1	1	O-RING
15	70684416	-	1	RING
16	70924270	1	1	O-RING
17	-----	1	1	CARTRIDGE ASSY. (Not serviced separately)
18	70658245	1	1	RING
19	70924696	1	1	O-RING
20	70684435	-	1	SPRING
21	-----	-	1	POPPET (Not serviced separately)
22	70684408	-	2	SCREEN (30 mesh)
23	70684409	-	2	SCREEN (100 mesh)
24	70684410	-	1	SPACER
25	70927685	-	1	SNAP RING
26	70924774	-	1	O-RING
27	70684411	-	1	RING
28	70684436	-	1	SEAT
29	70684437	-	1	RETAINER
30	70684413	-	2	SETSCREW



T-75431

CONTROL VALVE PARTS

- * { 70685999 VALVE ASSY., tilt control (See page 330)
 70660869 VALVE ASSY., tilt control (See page 329)
 ** 70655655 VALVE ASSY., ripper control (See pages 329 and 330)

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	1 1	HOUSING (Not serviced separately)
2	{ 70923813	2 -	O-RING
	{ 70923576	- 2	O-RING
3	{ 70664462	2 -	RING
	{ 70658284	- 2	RING
4	{ 70664464	3 -	PLATE
	{ 70658286	- 3	PLATE
	70925192	4 4	CAPSCREW, socket-hd., 5/16"NC x 5/8"
	70904205	4 4	LOCKWASHER, 5/16"
5	{ 70664456	1 -	CAP, end
	{ 70658282	- 1	CAP, end
	70926269	4 4	CAPSCREW, socket-hd., 5/16"NC x 1-1/4"
	70904205	4 4	LOCKWASHER, 5/16"
6	{ 70658466	2 2	VALVE ASSY., relief, front end (2300 PSI)(VALVE ASSEMBLIES 70655655 and 70660864)
	{ 70671986	2 -	VALVE ASSY., relief, front end (2600 PSI)(VALVE ASSEMBLY 70685999 only)

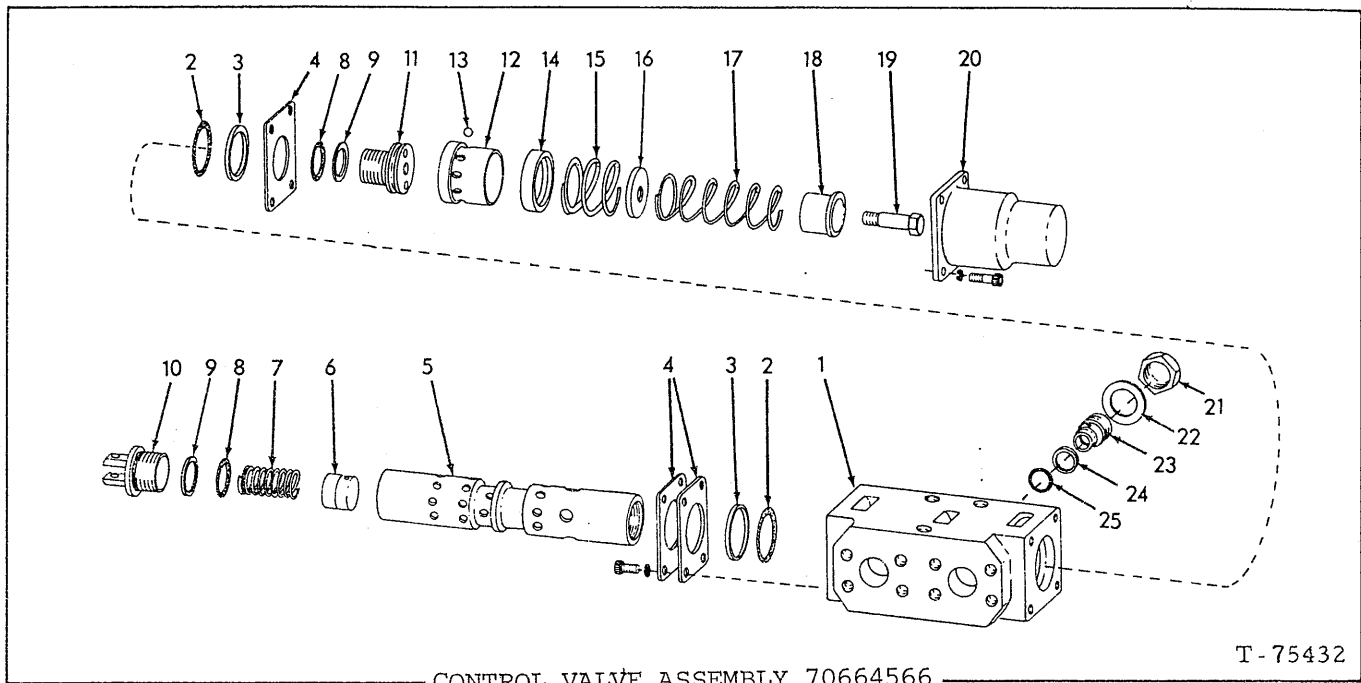
Each
Consists
of items
7 thru 21

(Continued)

CONTROL VALVE PARTS (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION	
7	70658363	2 2	CAP, relief valve	
8	70923379	2 2	O-RING, relief valve cap (1"O. D.)	
9	{ 70658360 70911992	1 1 1 1	WASHER, spring adjusting (1/64" thick) WASHER, spring adjusting (1/16" thick)	} Use as req'd
10	70660792	1 1	SHIM, spring adjusting (.005" thick)	
11	70659555	2 2	SPRING, relief valve	
12	70658364	2 2	SEAT, relief valve spring	
13	-----	2 2	CARTRIDGE (Not serviced separately)	
14	70924775	2 2	O-RING, cartridge, outer (1-1/8"O. D.)	
15	70660793	2 2	RING, back-up	
16	70925081	2 2	O-RING, cartridge, inner (3/4"O. D.)	
17	70665250	2 2	RING, backing, cartridge o-ring	
18	70924854	2 2	O-RING, cartridge, outer (1"O. D.)	
19	70658365	2 2	BALL ASSY., relief valve (Serviced only as a unit)(Early valves)	
	73109599	2 2	POPPET (Late valves)	
20	70658361	2 2	SPRING (conical) (Early valves)	
	73109602	2 2	SPRING (straight) (Late valves)	
21	70665174	2 2	CAP, spring retaining	
22	{ 70664458 70658279	1 - - 1	BOLT, plunger return BOLT, plunger return	
23	{ 70664466 70660780	2 - - 2	RING, back-up RING, back-up	
24	{ 70924922 70925069	2 - - 2	O-RING, clevis and plunger return bolt O-RING, clevis and plunger return bolt	
25	{ 70664460 70658280	2 - - 2	GUIDE, spring GUIDE, spring	
26	{ 70664461 70659506	1 - - 1	SPRING, plunger return SPRING, plunger return	
27	{ 70665814 70659504	2 - - 2	SPRING, check valve SPRING, check valve	
28	{ 70664459 70658278	2 - - 2	VALVE, check VALVE, check	
29	-----	1 1	PLUNGER, operating (Not serviced separately)	
30	70658281	- 1	CLEVIS, operating plunger	
31	70665718	1 -	CLEVIS, operating plunger	

(Revised April 1977)



CONTROL VALVE ASSEMBLY 70664566

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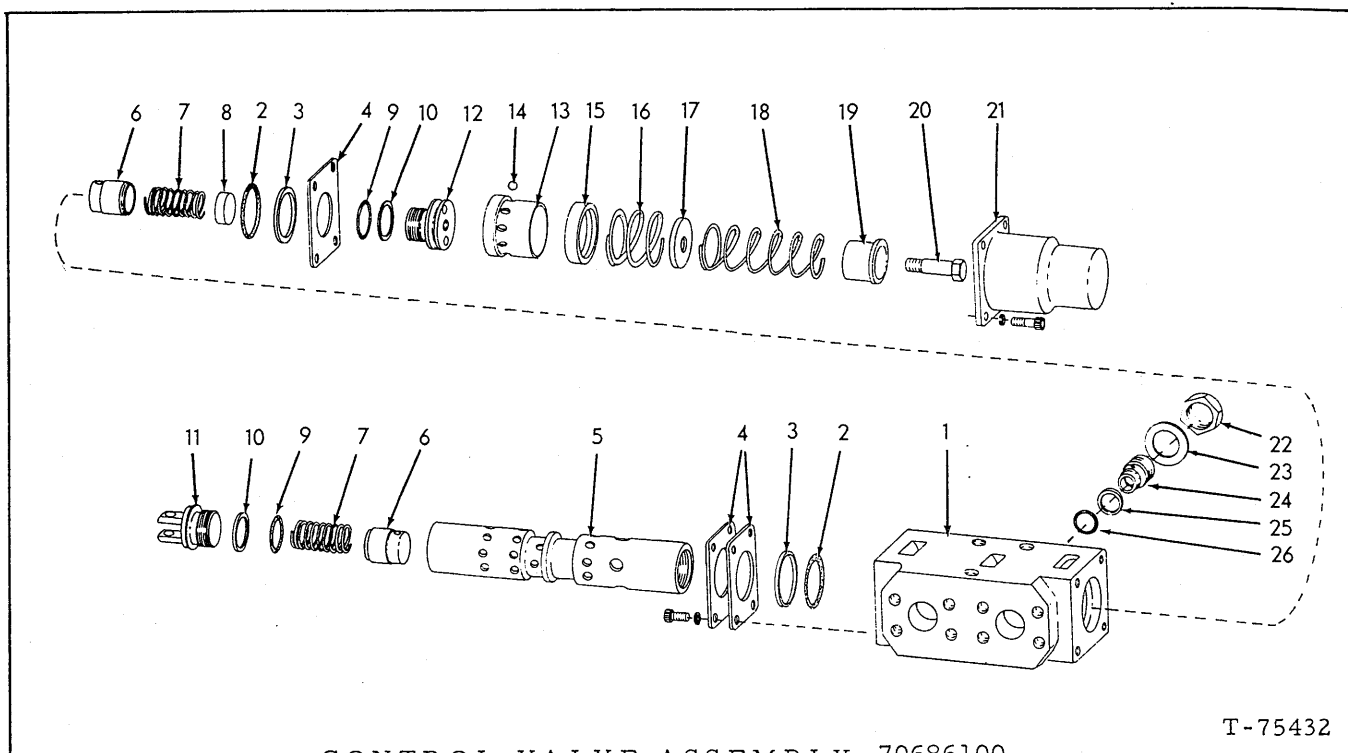
USAGE: See page 329.

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	HOUSING (Not serviced separately)
2	70676691	2	O-RING, operating plunger
3	70664577	2	RING, back-up, plunger sealing ring (teflon)
4	70664575	3	PLATE, seal retaining
	70925640	4	CAPSCREW, socket-hd., 5/16"NC x 3/4"
	70906959	4	LOCKWASHER, int-tooth, 5/16"
5	-----	1	PLUNGER, operating (Not serviced separately)
6	70664576	1	VALVE, check
7	70664580	1	SPRING, check valve
8	70927101	2	O-RING, clevis and detent
9	70664578	2	RING, back-up, clevis and detent O-ring
10	70664567	1	CLEVIS, operating plunger
11	70664570	1	DETENT
12	70664571	1	RETAINER, detent balls
13	70924855	6	BALL, steel, 3/8" diam.
14	70664572	1	SLEEVE, detent
15	70664582	1	SPRING, detent
16	70664573	1	WASHER, plunger return spring

(Continued)

VALVE ASSEMBLY 70664566 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	70664581	1	SPRING, plunger return
18	70664569	1	GUIDE, plunger return spring
19	70664574	1	BOLT, plunger return
20	70664568	1	CAP, end
	70926269	4	CAPSCREW, socket-hd., 5/16"NC x 1-1/4"
	70910286	4	LOCKWASHER, 5/16"
21	70664588	1	CAP, check valve
22	70664584	1	GASKET, check valve cap
23	70693476	1	SEAT ASSY. (Includes poppet)
24	70668840	1	RING, back-up, check valve o-ring
25	70925638	1	O-RING, check valve



T-75432

CONTROL VALVE ASSEMBLY 70686100

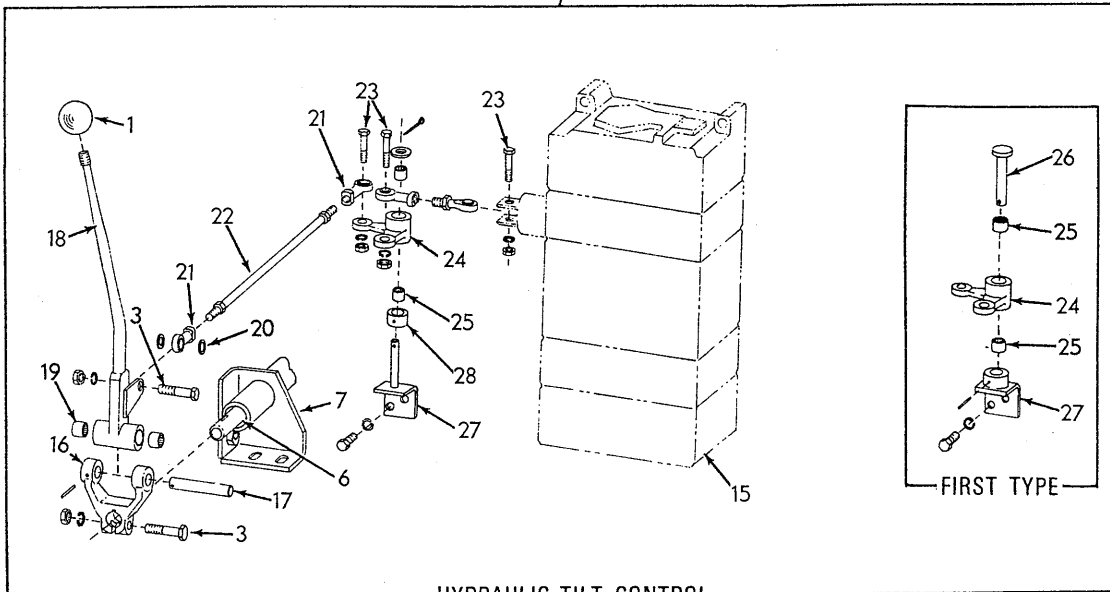
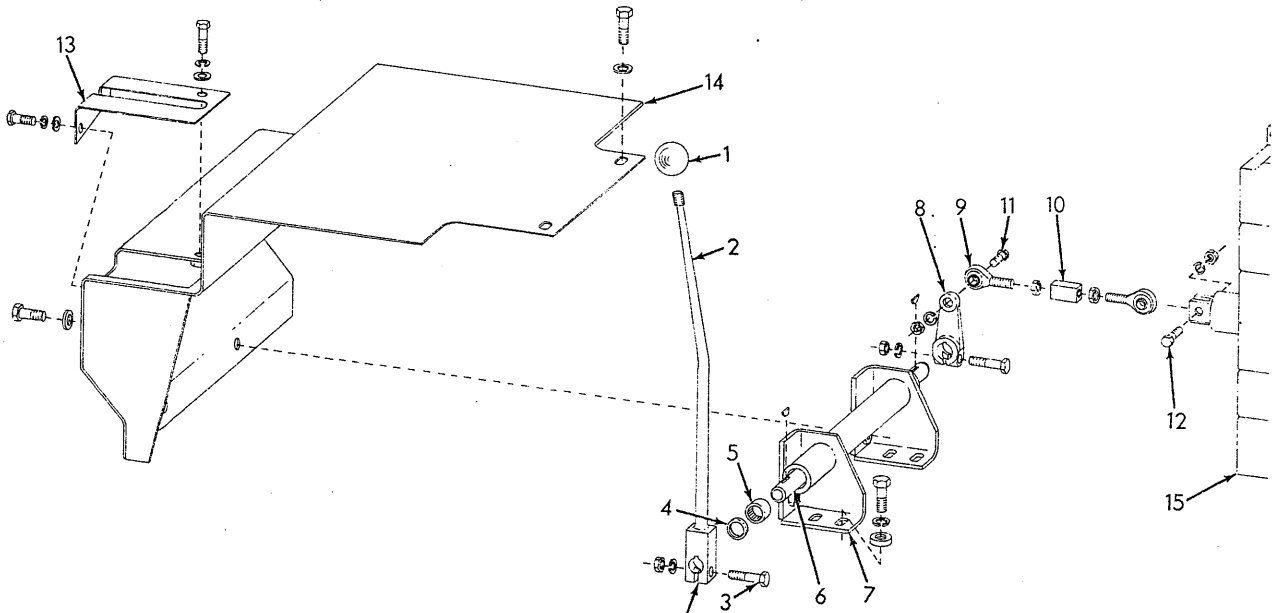
USAGE: See page 330.

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	HOUSING (Not serviced separately)
2	70923580	2	O-RING
3	70664577	2	RING
4	70664575	3	PLATE
	70925640	4	CAPSCREW, socket-hd., 5/16" NC x 3/4"
	70910286	4	LOCKWASHER, 5/16"
5	-----	1	PLUNGER (Not serviced separately)
6	70680246	2	VALVE
7	70680244	2	SPRING
8	70680511	1	SPACER
9	70927101	2	O-RING
10	70664578	2	RING
11	70680245	1	CLEVIS
12	70680241	1	DETENT
13	70664571	1	RETAINER
14	70924855	6	BALL, steel, 3/8" dia.
15	70664572	1	SLEEVE
16	70664582	1	SPRING
17	70664573	1	WASHER
18	70664581	1	SPRING
19	70664569	1	GUIDE
20	70664574	1	BOLT

(Continued)

CONTROL VALVE ASSEMBLY 70686100 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70664568	1	CAP
	70926269	4	CAPSCREW, socket-hd., 5/16" NC x 1-1/4"
	70910286	4	LOCKWASHER, 5/16"
22	70664588	1	CAP
23	70664584	1	GASKET
24	70693476	1	SEAT ASSY. (Includes poppet)
25	70668840	1	RING
26	70925638	1	O-RING



HYDRAULIC TILT CONTROL

VALVE CONTROLS

USAGE: Tractors with hydraulic dozer

* Units without hydraulic tilt

** Units with hydraulic tilt

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
1	70090020	1	1	KNOB, operating lever	
2	70660100	1	-	LEVER, operating	
3	70922287	2	3	CAPSCREW, operating lever (3/8" NC x 1-3/4")	
	70910287	2	3	LOCKWASHER, 3/8"	
	70911026	2	3	NUT, 3/8" NC	
4	70052662	2	2	SEAL, dust, shaft bearing	
5	70208253	2	2	BEARING, needle, operating lever shaft	
6	70659344	1	1	SHAFT, operating lever	
	70905122	2	2	KEY, #7 woodruff, 1/8" x 3/4"	
7	70662008	1	1	BRACKET, operating lever shaft	
	70920574	4	4	CAPSCREW, 1/2" NC x 1-3/8"	
	70904208	4	4	LOCKWASHER, 1/2"	
	70677008	4	4	WASHER, plain	
8	70617648	1	1	LEVER, valve operating	
9	70639916	2	3	END, ball (male thread)	
	70911041	2	3	NUT, 3/8" NF	
10	70082366	1	1	BLOCK, adjusting	
11	70921565	1	1	CAPSCREW, ball end (3/8" NC x 1-1/2")	
	70910287	1	1	LOCKWASHER, 3/8"	
	70911026	1	1	NUT, 3/8" NC	
12	70921565	1	1	CAPSCREW, ball end (3/8" NC x 1-1/2")	
	70910287	1	1	LOCKWASHER, 3/8"	
	70911026	1	1	NUT, 3/8" NC	
13	70660103	1	-	GUIDE, operating lever	} Used prior to October 1970
	70916271	2	-	CAPSCREW, 3/8" NC x 1"	
	70910287	2	-	LOCKWASHER, 3/8"	
	70044973	2	-	WASHER, plain	
14	70660106	1	1	COVER, valve	
	70921172	4	4	CAPSCREW, 1/2" NC x 1-1/4"	
	70677008	4	4	WASHER, plain	
15	-----	1	1	VALVE ASSY., control (See page 325)	
16	70659338	-	1	LEVER, pivot	
17	70655418	-	1	SHAFT, pivot	
	70915797	-	1	PIN, spring, 3/16" x 1-1/4"	
18	70661995	-	1	LEVER, operating	
19	70655215	-	2	BEARING, needle, operating lever	
20	70078402	-	2	WASHER, spacing	
21	70617932	-	3	END, ball (female thread)	
22	70659348	-	1	ROD, control	
	70911041	-	2	NUT, 3/8" NF	

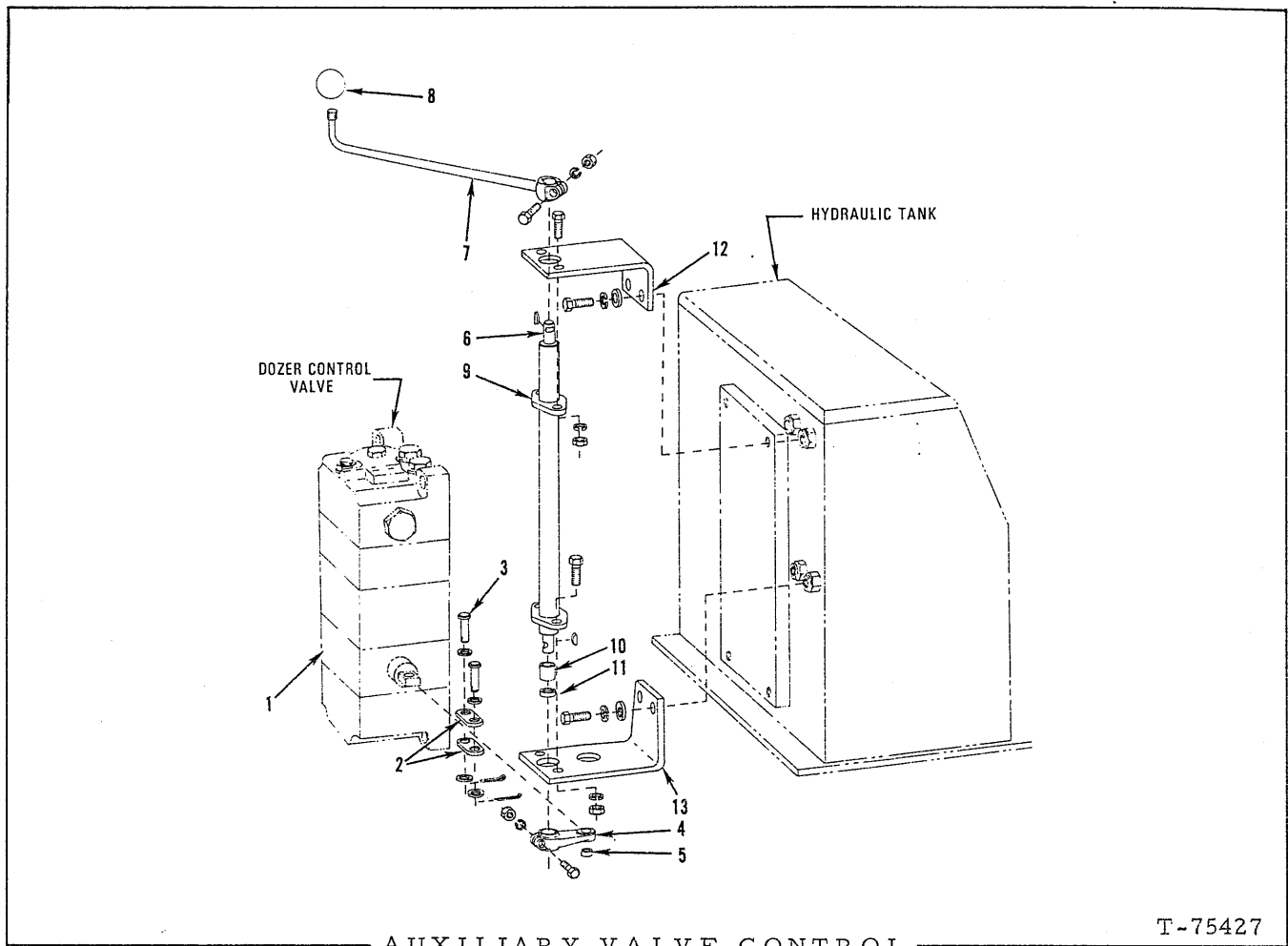
(Continued)

VALVE CONTROLS (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION	
23	70921565	- 3	CAPSCREW, 3/8"NC x 1-1/2"	
	70910287	- 3	LOCKWASHER, 3/8"	
	70911026	- 3	NUT, 3/8"NC	
24	70659340	- 1	LEVER, bellcrank	
25	70655215	- 2	BEARING, needle, bellcrank lever	
26	70655211	- 1	PIN, bellcrank lever	} Used prior to February 1972
	70915797	- 1	PIN, spring, 3/16" x 1-1/4"	
27	70659347	- 1	ANGLE, bellcrank lever mounting	} Used prior to February 1972
	70922763	- 2	CAPSCREW, 3/8"NC x 1"	
	70910287	- 2	LOCKWASHER, 3/8"	
	70682236	- 1	ANGLE, bellcrank lever mounting	} Effective February 1972
	70927173	- 2	CAPSCREW, 3/8"NC x 1-1/8"	
	70928178	- 1	WASHER, plain	
	70900806	- 1	PIN, cotter, 1/8" x 1"	
28	70655221	- 1	BLOCK, spacing (Effective February 1972)	

M E M O

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



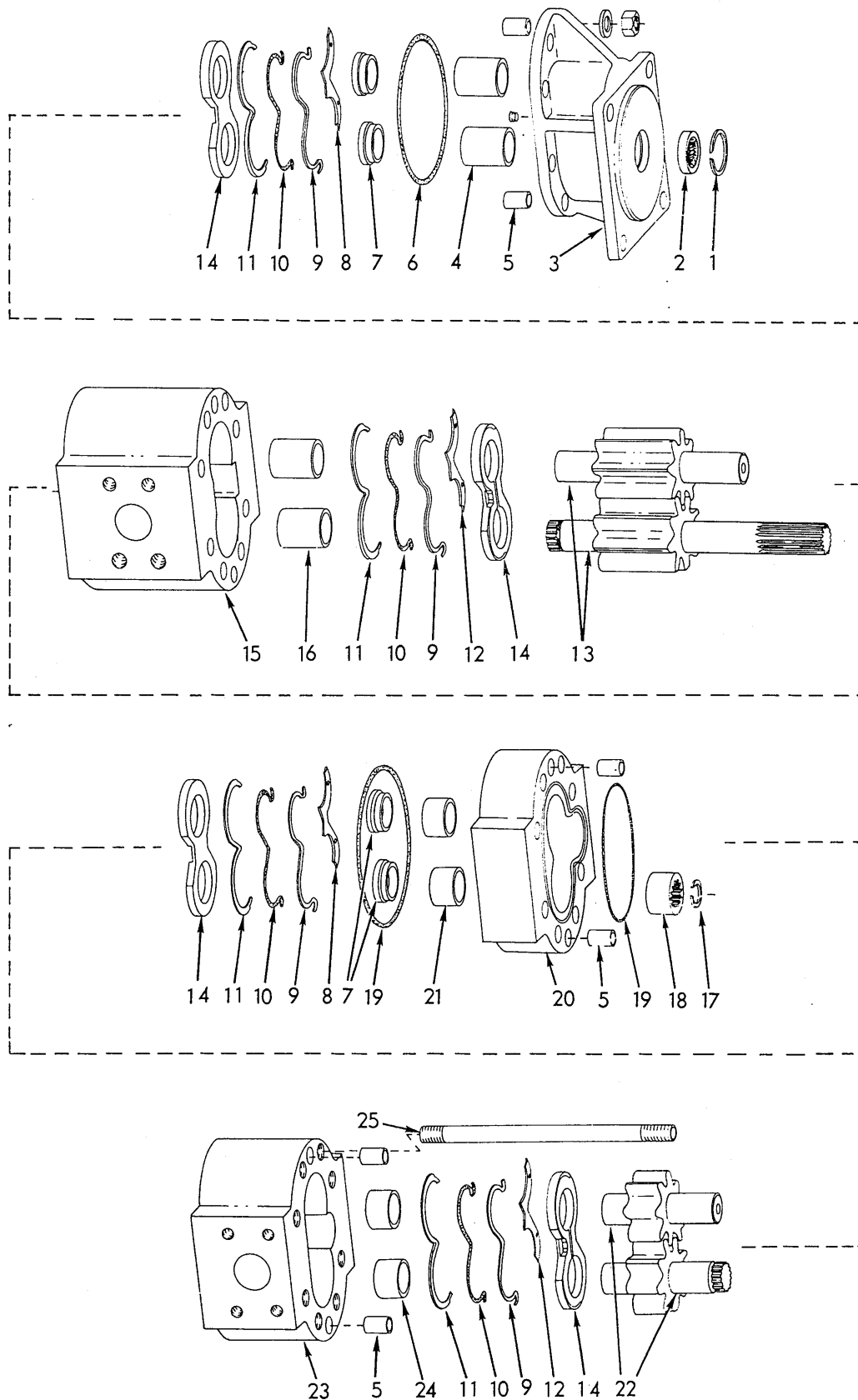
USAGE: Units equipped with ripper or other allied equipment. See page 341 for basic dozer controls.

ITEM	PART NO.	QTY.	DESCRIPTION	
1	-----	1	VALVE ASSY. (See page 329)	
2	70659312	2	LINK, connecting	
3	70094317	2	PIN, connecting link	
	70910244	4	WASHER, plain, SAE std., 1/2"	
	70900806	2	PIN, cotter, 1/8" x 1"	
4	70659310	1	LEVER ASSY., control (Includes item 5)	} Standard on tractor unit #18567 and up
	70916273	1	CAPSCREW, 3/8" NC x 1-3/4"	
	70904206	1	LOCKWASHER, 3/8"	
	70911026	1	NUT, 3/8" NC	
5	70049988	1	BUSHING, control lever	
6	70659314	1	SHAFT, control lever	
	70905122	2	KEY, #7 woodruff, 1/8" x 3/4"	
7	70659315	1	LEVER, operating	
	70910948	1	CAPSCREW, 3/8" NC x 2"	
	70904206	1	LOCKWASHER, 3/8"	
	70911026	1	NUT, 3/8" NC	
8	70090020	1	KNOB, operating lever	

(Continued)

AUXILIARY VALVE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
9	70661980	1	TUBE, operating lever shaft
	70919230	4	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	4	LOCKWASHER, 1/2"
	70911028	4	NUT, 1/2"NC
10	70208253	2	BEARING, needle, operating lever shaft
11	70052662	2	SEAL, dust, shaft bearing
12	70659311	1	ANGLE, supporting, operating shaft tube, upper
	70919230	2	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	2	LOCKWASHER, 1/2"
	70064531	2	WASHER, plain
13	70661230	1	ANGLE, supporting, operating shaft tube, lower
	70919230	2	CAPSCREW, 1/2"NC x 1-3/8"
	70904208	2	LOCKWASHER, 1/2"
	70064531	2	WASHER, plain



PUMP PARTS

T-75425

PUMP ASSEMBLY 70661175

USAGE: See page 349

* First type (13/16" long center body bushings)
 ** Second type (1" long center body bushings)
 DESCRIPTION

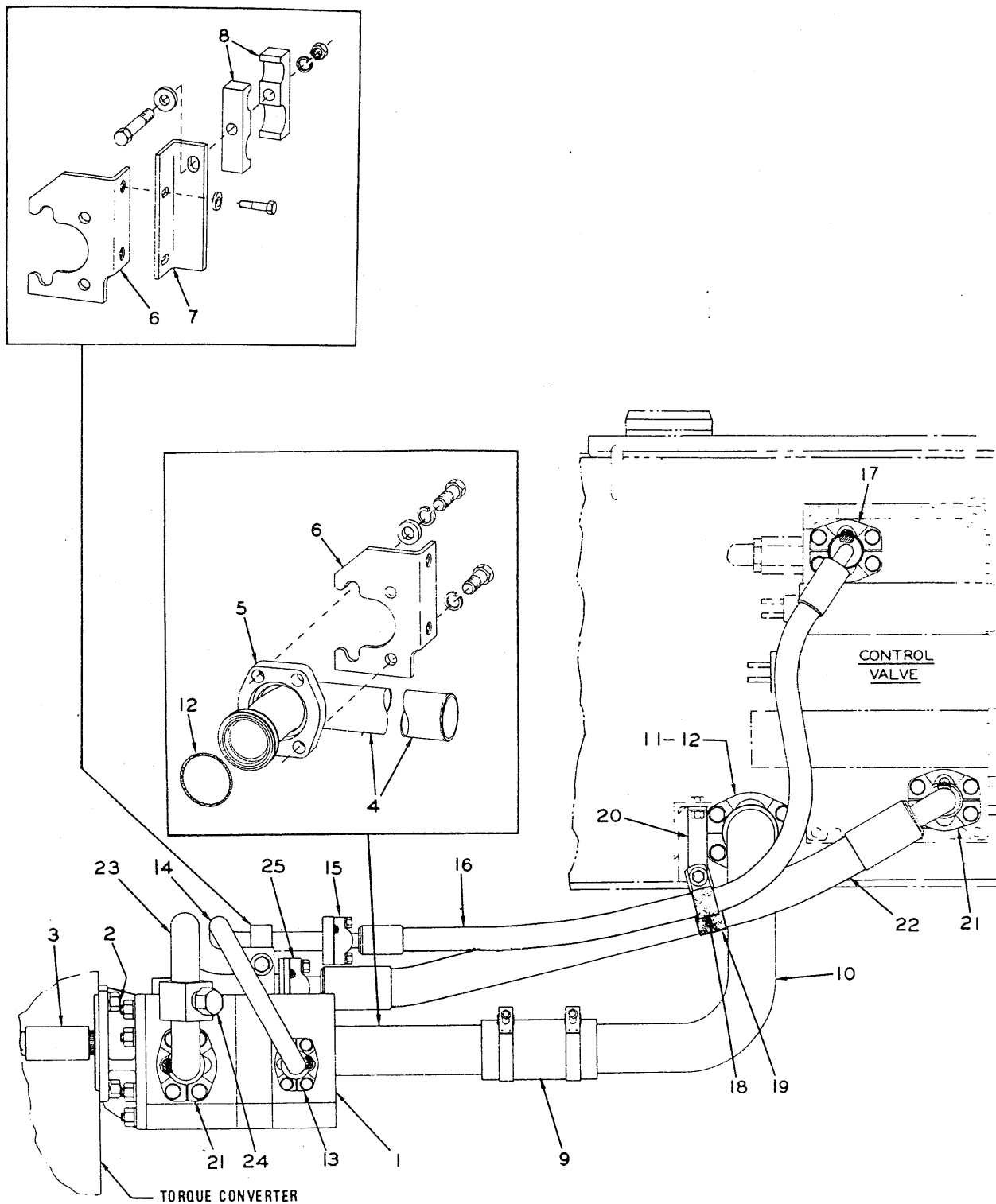
ITEM PART NO. QTY.
 * **

NOTE: The term "front" as used herein refers
 to the drive end of the pump

1	70194166	1	1	RING, snap, seal retaining
2	70194165	1	1	SEAL, oil
3	70663327	1	-	FLANGE ASSY., mounting (Includes item 4 and PLUG 70910231)
	70696223	-	1	FLANGE ASSY., mounting (Includes item 4)
	70910231	1	-	PLUG, pipe, hex-socket, 1/8"NPT
4	-----	2	2	BUSHING, mounting flange (Not serviced separately)
5	70194132	6	6	DOWEL, pump body
6	70925655	1	-	O-RING, mounting flange
	70925743	-	1	O-RING, mounting flange
7	70664694	4	-	□RING, seal positioning
8	70665098	2	2	□PLATE, isolation
9	70665096	4	4	□RING, back-up (teflon)
10	70665097	4	4	□RING, sealing (rubber)
11	70665099	4	4	□RETAINER, seal ring (nylon)
12	70665095	2	2	□PLATE, isolation
13	70663364	1	1	GEAR KIT, front pump (Consists of 2 matched gears. Includes shafts)
14	70658241	4	4	PLATE, wear
15	70663322	1	1	BODY ASSY., front pump (Includes item 16)
16	-----	2	2	BUSHING, front pump body (Not serviced separately)
17	70667593	1	-	RING, snap, gear coupling
	70927691	-	1	RING, snap, gear coupling
18	70667594	1	1	COUPLING, gear
19	70925393	2	-	O-RING, center body
	70924920	-	2	O-RING, center body
20	70663304	1	-	BODY ASSY., center (Includes item 21)
	70697417	-	1	PLATE ASSY., center (Includes item 21)
21	70663326	2	-	BUSHING, center body (13/16" long)
	-----	-	2	BUSHING, center body (Not serviced)(1" long)
22	70663365	1	1	GEAR KIT, rear pump (Consists of 2 matched gears. Includes shafts)
23	70663323	1	-	BODY ASSY. (Includes item 24)
	70697414	-	1	BODY ASSY. (Includes bushings which are not serviced separately)
24	70663326	2	-	BUSHING, rear pump body
25	70663330	8	-	STUD
	70697412	-	8	STUD
	70665930	8	8	NUT, 1/2"NF
	70651109	8	8	WASHER
26	70665141	2	-	SEAL KIT (Consists of items 7 thru 12; includes half of quantities listed above)

□ Components of item 26

(Revised April 1977)



DOZER OIL PUMP AND LINES

T-75424

DOZER OIL PUMP LINES

USAGE: Standard on tractor serial No. 18567 and up. Special equipment on prior models

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70661175	1	PUMP ASSY., oil (See page 347 for parts)	
2	70604241	4	STUD, 1/2"NC x 1-7/8"	
	70912441	4	LOCKWASHER, 1/2"	
	70914012	4	NUT, 1/2"NC	
3	70657963	1	COUPLING, splined	
4	70665416	1	TUBE, suction line, front	
5	70666919	1	FLANGE, front suction line	
6	70667389	1	BRACKET, tube supporting	
	70920585	2	CAPSCREW, 1/2"NC x 1-3/4"	
	70921556	2	CAPSCREW, 1/2"NC x 2"	
	70912441	2	LOCKWASHER, 1/2"	
	70677008	2	WASHER, plain	
7	70666916	1	ANGLE, tube supporting	
	70921565	2	CAPSCREW, 3/8"NC x 1-1/2"	
	70677006	2	WASHER, plain	
8	70662662	2	CLAMP, tube supporting	
	70921539	1	CAPSCREW, 1/2"NC x 3-1/2"	
	70677008	1	WASHER, plain	
	70912441	1	LOCKWASHER, 1/2"	
	70911028	1	NUT, 1/2"NC	
9	70665278	1	HOSE, suction line	
	70927141	2	CLAMP, hose	
10	70665633	1	TUBE, suction line, rear	
11	70921599	2	FLANGE, rear suction line (half only)	
	70920583	4	CAPSCREW, 1/2"NC x 1-1/2"	
	70912441	4	LOCKWASHER, 1/2"	
12	70924686	2	O-RING, suction line	
13	70921116	2	FLANGE, pressure line (half only)	Pump end
	70921076	4	CAPSCREW, 3/8"NC x 1-1/4"	
	70910287	4	LOCKWASHER, 3/8"	
	70924200	1	O-RING, pressure line	
14	70665663	1	TUBE, pressure line, pump to upper relief valve	
15	70921115	2	FLANGE, pressure line hose (half only)	lower end
	70916272	4	CAPSCREW, 3/8"NC x 1-1/4"	
	70904206	4	LOCKWASHER, 3/8"	
	70924110	1	O-RING, pressure line hose	
16	70665640	1	HOSE, pressure line, pump to upper relief valve	
17	70921118	2	FLANGE, pressure line hose	upper end
	70920583	4	CAPSCREW, 1/2"NC x 1-1/2"	
	70912441	4	LOCKWASHER, 1/2"	
	70924193	1	O-RING, pressure line	
18	70095869	1	CLIP, pressure line hose	
	70922763	1	CAPSCREW, 3/8"NC x 1"	
	70926180	2	WASHER, plain, U.S. std., 3/8"	
	70911026	1	NUT, 3/8"NC	
19	70623235	1	CLIP, pressure line hose	

(Continued)

OIL PUMP AND LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
20	70659175	1	ANGLE, hose supporting
	70922262	1	CAPSCREW, 3/8"NC x 7/8"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
21	70921118	4	FLANGE, pressure line hose (half only)
	70920583	8	CAPSCREW, 1/2"NC x 1-1/2"
	70912441	8	LOCKWASHER, 1/2"
	70924193	2	O-RING, pressure line
22	70665642	1	HOSE, pressure line
23	70665653	1	TUBE, pressure line
24	70921244	1	CAP, flare fitting, 3/4" tube
25	70921117	2	FLANGE, pressure line hose (half only)
	70921569	4	CAPSCREW, 7/16"NC x 1-1/4"
	70914678	4	LOCKWASHER, 7/16"
	70924192	1	O-RING, pressure line hose

} lower end

NUMERICAL INDEX

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70012762..237		70044973..268		70052459..177		70067485..177		70081614..105	
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74390432..11		74391938..117		74393399..31		74394747..22		74396037..40	
74390432..24		74391949..117		74393426..11		74394749..22		74396039..40	
74390435..29		74391950..117		74393426..17		74394922..112		74396041..12	
74390467..14		74391955..117		74393427..119		74394928..28		74396041..40	
74390547..27		74391962..84		74393436..19		74394949..113		74396054..67	
74390548..27		74391996..81		74393443..19		74394952..18		74396166..115	
74390583..114		74392013..35		74393443..27		74394953..113		74500230..17	
74390589..41		74392051..27		74393504..119		74394957..12		74506607..139	
74390589..114		74392052..27		74393505..119		74394957..43		74507358..72	
74390590..114		74392053..27		74393548..86		74394976..71		74507359..66	
74390591..113		74392054..27		74393552..15		74394990..81		74507359..72	
74390592..113		74392057..67		74393557..112		74395011..86		74507414..72	
74390593..49		74392068..27		74393559..111		74395012..86		74507415..66	
74390593..51		74392121..67		74393560..15		74395024..12		74507415..72	
74390594..114		74392182..31		74393563..87		74395024..42		74509035..39	
74390595..113		74392183..31		74393591..112		74395049..24		74509035..39	
74390655..117		74392279..10		74393592..79		74395053..12		74509035..40	
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74390767..17		74392304..67		74393599..43		74395060..12		74511243..67	
74390769..83		74392350..69		74393600..12		74395060..43		74513810..117	
74390837..15		74392384..71		74393600..43		74395061..12		74516821..31	
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74391003..117		74392387..71		74393615..110		74395062..43		74640975..109	
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74391351..117		74392788..72		74393975..18		74395116..21		74752002..117	
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74391374..18		74392801..55		74393989..28		74395118..20		74905870..198	
74391390..36		74393077..56		74394009..69		74395119..20		74980021..176	
74391403..33		74393090..57		74394014..113		74395120..20		74999593..176	
74391407..33		74393160..53		74394036..24		74395121..20		75000528..241	
74391408..34		74393161..53		74394053..11		74395122..20			
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74391419..33		74393260..73		74394177..71		74395126..21			
74391425..86		74393325..115		74394178..55		74395127..21			
74391441..33		74393341..12		74394178..57		74395128..21			
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74391487..11		74393349..40		74394212..11		74395419..57			
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74391715..87		74393359..11		74394301..69		74395770..24			