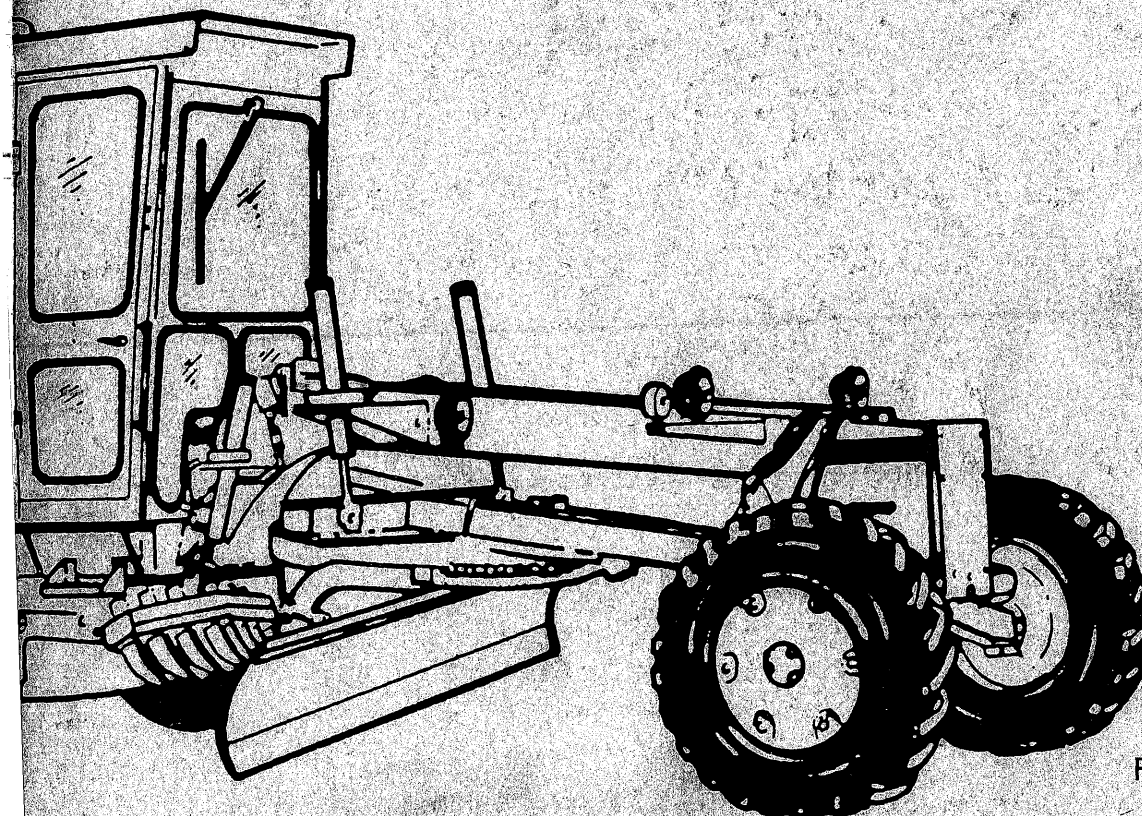


M65

MOTOR GRADER

(Diesel and Gas)



FORM 70677549
Reprint 7/89

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 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.

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.

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in whole or in part, is strictly prohibited.

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.

SUPPLEMENT NO. 2



PARTS CATALOG FORM 70677549 (Same as 0677549-8)

65 MOTOR GRADER

(7-75)

ATTENTION: Insert this sheet in the front of publication as record of 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 Dept., 3000 South 6th Street, Springfield, Illinois, 62710 U.S.A.

43 (No change)
44 (Revised)

79 (Revised)
80 (No change)

137 (Revised)
138 (No change)

142A (Added)
BLANK

161 (Revised)
162 (No change)

* 170A (Added January 1975)
170B (Added)

* 175 (Revised January 1975)
175A (Added)

BLANK
176 (Revised)

177 (Revised)
177A (Added)

BLANK
178 (No change)

179 (Revised)
180 (No change)

182A (Added)
BLANK

188A (Revised)
188B (Revised)

188C (Revised)
188D (Revised)

188G (Added)
BLANK

191 (Revised January 1975)
192 (Revised)

193 (Revised)
194 (Revised)

199 (Revised)
199A (Revised)

199B (Revised)
200 (No change)

NOTICE
THESE CHANGES ARE
INCLUDED IN THIS COPY

* Previously issued pages

NOTICE: Allis-Chalmers Corporation and FIAT S.p.A. entered into a joint venture agreement to combine their manufacture, sale and service of construction machinery products throughout the world after January 1, 1974.

In view of the new enterprise, wherever in this publication reference is made to Allis-Chalmers or your Allis-Chalmers dealer, such reference is intended to identify FIAT-ALLIS Construction Machinery Inc. or your FIAT-ALLIS dealer

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.

The engine is mounted unconventionally with the flywheel toward the front of the machine, but all engine parts are designated in respect to the engine as it would be installed in a conventional machine with the flywheel to the rear.

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)

PUBLICATIONS AVAILABLE
FOR
65 MOTOR GRADER

DESCRIPTION	ENGLISH	ESPAÑOL (Spanish)	FRANÇAIS (French)	PORTUGUES (Portuguese)	ITALIANO (Italian)	DEUTSCH (German)
<u>PARTS CATALOGS</u>						
Motor Grader	70677549					
Cab Glass Data	70698502					
Injection Pump Roosa Master	70685399					
<u>OPERATOR AND MAINTENANCE INSTRUCTION MANUAL...</u>	70677548	70689285	70689284		70695617	70695618
<u>SERVICE MANUALS</u>						
Electrical System	70696657	70681718	70688844		*	*
Engine						
G226 (Gas)	-----					
D262 (Diesel)	70667141	70669673	70697448		70696479	70696457
Front Wheel, Axle & Wheel Lean	70683941	*	*		*	*
Fuel Injection Nozzles ...	70682797					
Fuel Injection Pump						
Roosa Master	73111954					
Hydraulic System	70683873	*	*		*	*
Moldboard, Drawbar, Circle, Scarifier & Gear Cases...	70680007	*	*		*	*
Tandems & Brakes	70664028	*	*		*	*
Transmission, Engine						
Clutch & Rear Axle	70682414	*	*		*	*
SERVICE MANUAL SET ...	70685820	70697458	70697449		70696480	70696458

*Use Complete Service Manual Set

NOTICE

ORDER FROM LOCAL FIAT-ALLIS DEALER UNLESS
OTHERWISE NOTED.

SEE CONSTRUCTION MACHINERY TECHNICAL
PUBLICATIONS INDEX (FORM 70658800) FOR ALL
AVAILABLE PUBLICATIONS.

PUBLICATIONS INDEX (FORM 70658800) IS AVAILABLE
FREE FROM YOUR DEALER.

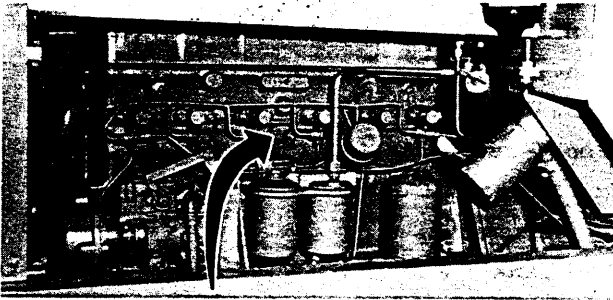
MODEL IDENTIFICATION

MODEL SYMBOL	ENGINE MODEL	DESCRIPTION
M65	D262	Diesel engine driven grader
M65	G226	Gasoline engine driven grader

RECORD YOUR SERIAL NUMBERS BELOW

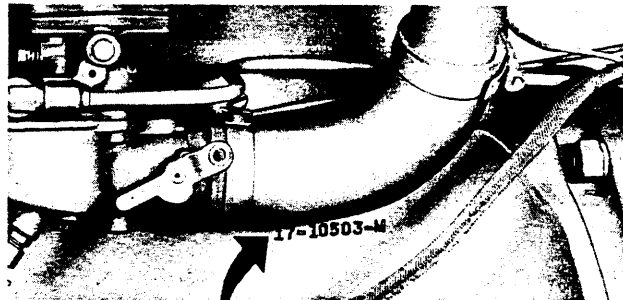
GRADER SERIAL NUMBER _____

ENGINE SERIAL NUMBER _____



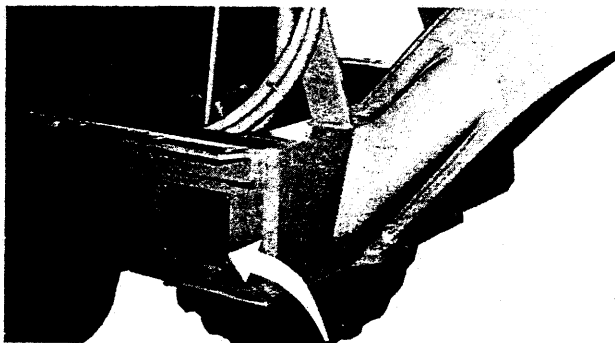
T-76382
ENGINE SERIAL NO. (Diesel)

Stamped on right side of engine block



T-23036
ENGINE SERIAL NO. (Gasoline)

Stamped on right side of engine block
near the carburetor



T-76381
MODEL SERIAL NO.

On plate attached to right side of frame near
the operator's platform

MODEL SERIAL NUMBER

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

***SERIAL NUMBER**, consisting of all 8 characters must always be submitted for positive identification of your machine. This Point Cannot Be Overemphasized.

GRADER MODEL	*SERIAL NO.	
	PRODUCT CODE	UNIT NO.
M65 (Diesel)	2 4 A	0 0 2 0 1
M65 (Gasoline)	5 6 Y	0 2 2 0 1

(Revised May 1978)

ALPHABETICAL INDEX

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Air Heater	79	Fan	83, 85
Alternator	182, 183	Filter	
Batteries and Cables	181	Engine Oil	40, 41
Belt, drive	83, 85, 182	Fuel	42, 46
Brake Control	106	Hydraulic Oil	129
Brakes		Flywheel	
Parking	108	Diesel Engine	26
Transmission	105	Gasoline Engine	25
Wheel	123	Frame	119
Cab	189	Front Axle	146
Cab Heater	197	Front Wheel Lean	145 thru 150
Camshaft	27, 32	Front Wheels	120
Carburetor	61	Fuel Filter	42, 46
Chain	115	Fuel Lines	44, 46
Choke Control (Gasoline Engine).	53	Fuel Tank	44, 46
Circle Turn Hydraulics	153	Gauges	
Clutch.	89	Air Restriction Indicator.	75
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Connecting Rod	22, 23	Engine Oil Level	16, 19
Crankshaft	24, 25	Engine Oil Pressure	186
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Cylinder Head	29, 31	Fuel Pressure	188
Cylinder Liner	23	Hour Meter	185
Cylinders		Hydraulic Oil Level	131
Brake Master	125	Odometer	190
Brake Wheel	126	Gear Shift	99
Moldboard Lift	161, 171	Governor (Gasoline Engine).	65
Power Steering	143	Hood	174
Scarifier Lift	171, 199	Hood Side Plates.	191
Shiftable Moldboard	166, 170	Horn	194
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Cylinder Sleeve	15	Hour Meter	185
Defroster Fan	193	Hydraulic Controls	136
Distributor	48	Hydraulic Motor	154
Elements		Hydraulic Pump Lines.	129
Air Cleaner	73	Hydraulic Tank.	131
Engine Oil Filter	40, 41	Ignition (Gasoline Engine).	48
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Engine	12, 13	Injection Pump.	67
Engine Clutch.	89	Instruments	186
Engine Clutch Control	91	Lights and Wiring	177
Engine Primer	80		

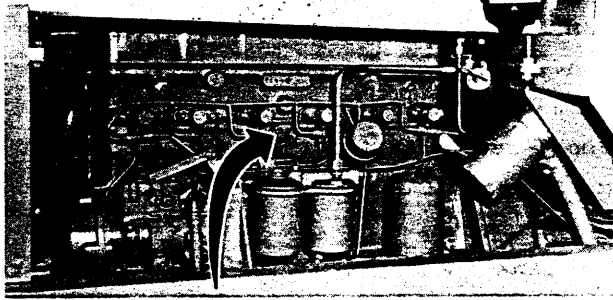
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MODEL SYMBOL	ENGINE MODEL	DESCRIPTION
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RECORD YOUR SERIAL NUMBERS BELOW

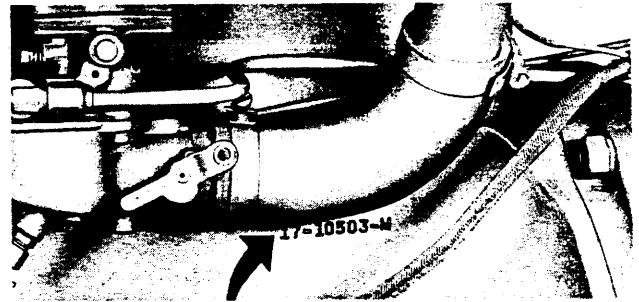
GRADER SERIAL NUMBER _____

ENGINE SERIAL NUMBER _____



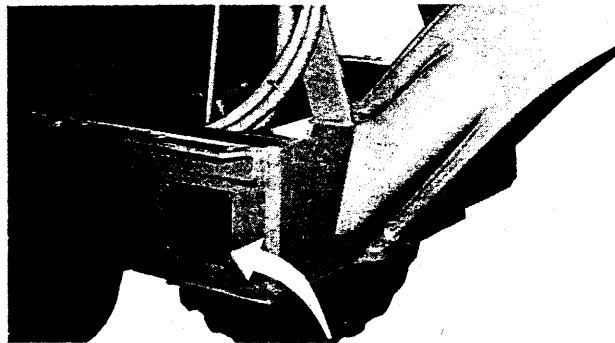
T-76382
ENGINE SERIAL NO. (Diesel)

Stamped on right side of engine block



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ENGINE SERIAL NO. (Gasoline)

Stamped on right side of engine block
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T-76381
MODEL SERIAL NO.

On plate attached to right side of frame near
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MODEL SERIAL NUMBER

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

***SERIAL NUMBER**, consisting of all 8 characters must always be submitted for positive identification of your machine. This Point Cannot Be Overemphasized.

GRADER MODEL	*SERIAL NO.	
	PRODUCT CODE	UNIT NO.
M65 (Diesel)	2 4 A	0 0 2 0 1
M65 (Gasoline)	5 6 Y	0 2 2 0 1

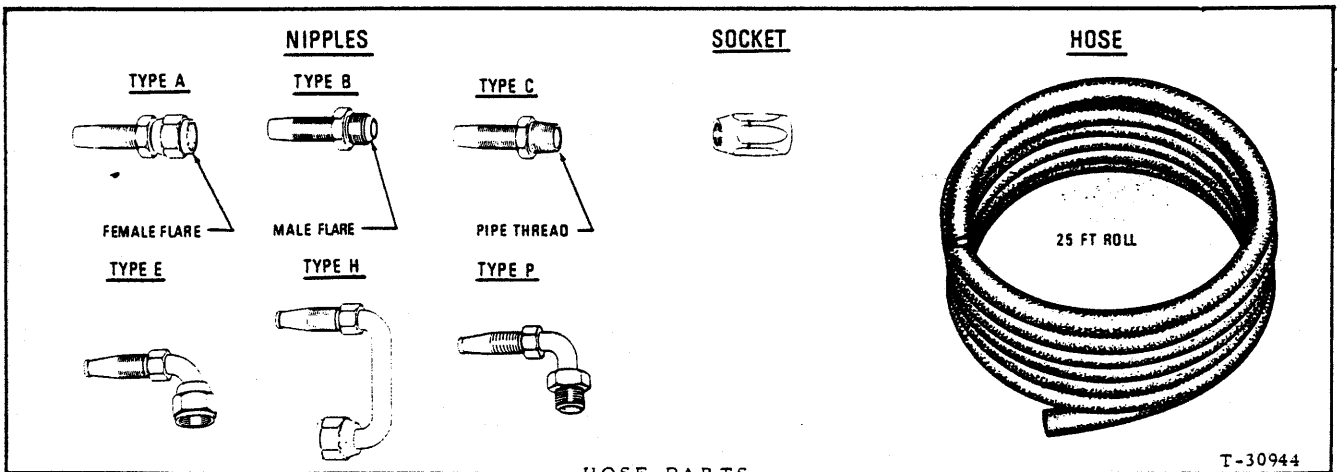
(Revised May 1978)

ALPHABETICAL INDEX

Air Cleaner	73 thru 78	Engine Shut-Off Control	57
Air Heater	79	Fan	83, 85
Alternator	182, 183	Filter	
Batteries and Cables	181	Engine Oil	40, 41
Belt, drive	83, 85, 182	Fuel	42, 46
Brake Control	106	Hydraulic Oil	129
Brakes		Flywheel	
Parking	108	Diesel Engine	26
Transmission	105	Gasoline Engine	25
Wheel	123	Frame	119
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Cab Heater	197	Front Wheel Lean	145 thru 150
Camshaft	27, 32	Front Wheels	120
Carburetor	61	Fuel Filter	42, 46
Chain	115	Fuel Lines	44, 46
Choke Control (Gasoline Engine).	53	Fuel Tank	44, 46
Circle Turn Hydraulics	153	Gauges	
Clutch	89	Air Restriction Indicator	75
Clutch Control	91	Ammeter	186
Connecting Rod	22, 23	Engine Oil Level	16, 19
Crankshaft	24, 25	Engine Oil Pressure	186
Cylinder Block	15, 19	Engine Temperature	186
Cylinder Head	29, 31	Fuel Pressure	188
Cylinder Liner	23	Hour Meter	185
Cylinders		Hydraulic Oil Level	131
Brake Master	125	Odometer	190
Brake Wheel	126	Gear Shift	99
Moldboard Lift	161, 171	Governor (Gasoline Engine).	65
Power Steering	143	Hood	174
Scarifier Lift	171, 199	Hood Side Plates	191
Shiftable Moldboard	166, 170	Horn	194
Wheel Lean	150	Hose Parts	6
Cylinder Sleeve	15	Hour Meter	185
Defroster Fan	193	Hydraulic Controls	136
Distributor	48	Hydraulic Motor	154
Elements		Hydraulic Pump Lines	129
Air Cleaner	73	Hydraulic Tank	131
Engine Oil Filter	40, 41	Ignition (Gasoline Engine).	48
Fuel	42	Injection Nozzles and Lines	68
Engine	12, 13	Injection Pump	67
Engine Clutch	89	Instruments	186
Engine Clutch Control	91	Lights and Wiring	177
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ALPHABETICAL INDEX

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		Wheels	120, 121
		Windshield Wiper.	192



PACKAGED PARTS

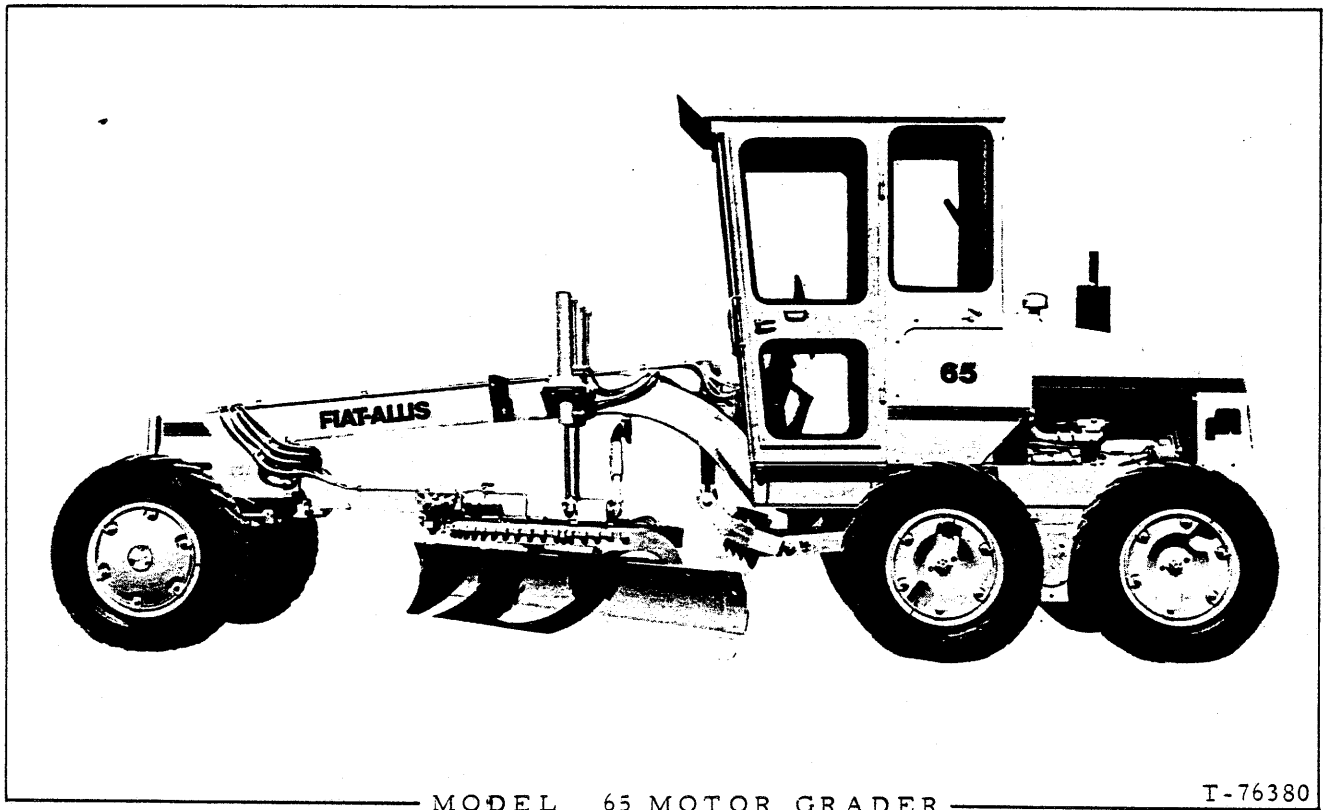
DIESEL-POWERED UNITS (Effective Serial No. 24A00201 and 56Y02201)

PACKAGE NO.	DESCRIPTION
70077951	GEAR SET, transmission
	1 ----- SHAFT
	1 ----- GEAR, bevel
74511664	GASKET KIT, cylinder block
	1 70923719 O-RING, oil filter base (Discard)
	1 74503956 GASKET, pad cover
	1 74507505 GASKET, gear cover
	1 74508186 GASKET, front plate
	1 74508872 O-RING, oil filter base (Discard)
	1 74508941 GASKET, oil line flange (Discard)
	1 74513809 GASKET, air inlet housing
74514580	GASKET KIT, cylinder head
	2 74105451 GASKET, rocker cover nut
	1 74504562 GASKET, intake and exhaust manifold
	6 74511204 GASKET, injection nozzle
	1 74512212 GASKET, water pump to block
	1 74513482 GASKET, cylinder head cover
	1 74513527 GASKET, water outlet pipe
	1 74513722 GASKET, thermostat housing
	1 74513723 GASKET, water hole cover
	1 74514398 GASKET ASSY., cylinder head
74516867	PISTON AND SLEEVE KIT
	1 74510817 SLEEVE, cylinder
	1 74516606 RING, packing, upper
	1 74514615 RING, packing, lower
	1 74516864 PISTON
	1 74507710 PIN
	2 74514586 RETAINER, pin
	1 74516738 RING SET
74516868	PISTON AND SLEEVE KIT (Same as 74516867 except has .020" thicker top flange on cylinder sleeve)
	1 74508465 SLEEVE, cylinder
	1 74516606 RING, packing, upper
	1 74514615 RING, packing, lower
	1 74516864 PISTON
	1 74507710 PIN
	2 74514586 RETAINER, pin
	1 74516738 RING SET
-----	REPAIR KIT, brake master cylinder (See page 125)
-----	REPAIR KIT, circle turn motor (See page 155)
-----	REPAIR KIT, water pump (See page 83)

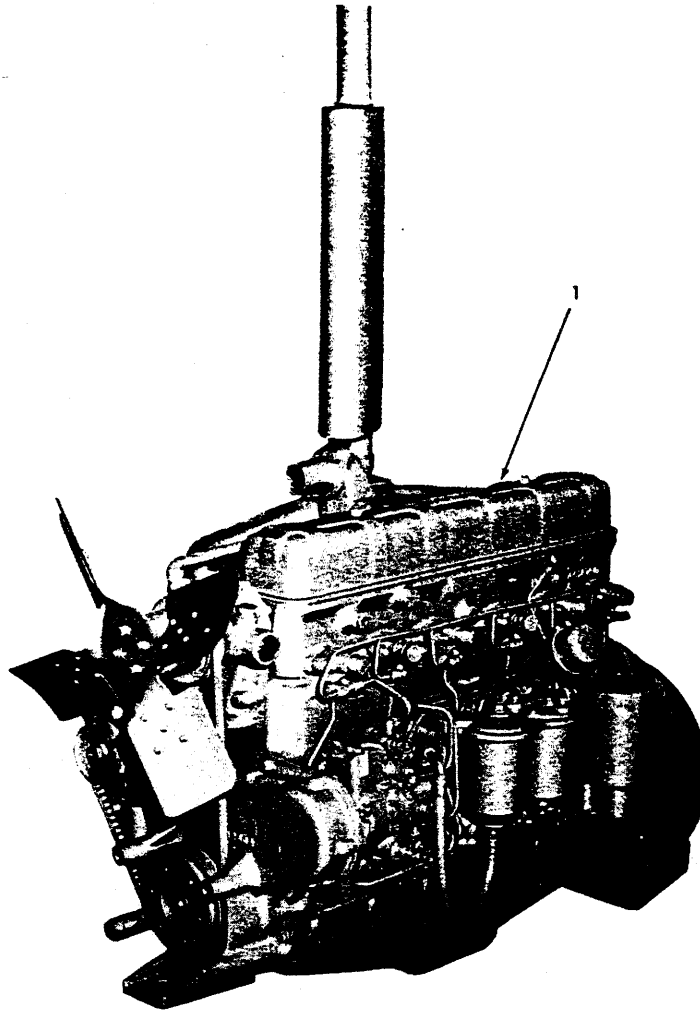
PACKAGED PARTS

GASOLINE-POWERED UNITS (Effective Serial No. 75Y00201)

PACKAGE NO.	DESCRIPTION
-----	CRANKSHAFT KITS (See CRANKSHAFT)
-----	GASKET SET, carburetor overhaul (See page 63)
70233239	GASKET SETS, cylinder head overhaul
4 70226477	PACKING, rocker cover stud
2 70229337	GASKET
2 70229338	RETAINER } Discard. Not required
1 70229406	GASKET, cylinder head
1 70229958	GASKET SET, manifold
1 70232449	GASKET, rocker cover
1 70233209	GASKET, carburetor
2 70233216	GASKET, water manifold
1 70233218	GASKET, thermostat housing
70226638	GASKET SET, engine overhaul
2 70203036	GASKET, rear bearing cap (Discard)
1 70203061	GASKET, water pump to block
1 70203176	GASKET, oil pump cover (Discard)
1 70205834	SEAL, magneto drive shaft (Discard)
1 70210158	GASKET, thermostat cover
1 70218604	GASKET, push rod cover (Discard)
1 70226117	GASKET, distributor housing cover
4 70226477	PACKING, rocker cover stud
1 70226620	SEAL, crankshaft, front
2 70227120	SEAL, crankshaft, rear (Discard)
1 70229406	GASKET, cylinder head
1 70229958	GASKET SET, manifold
1 70230643	GASKET, thermostat
1 70232449	GASKET, rocker cover
1 70233209	GASKET, carburetor
1 70233211	GASKET, distributor base
1 70233214	GASKET, timing gear cover
1 70233215	GASKET, governor cover
2 70233216	GASKET, water hole cover
1 70233217	GASKET, distributor drive housing
1 70233218	GASKET, thermostat housing
1 70233228	GASKET, oil filter base (Discard)
2 70233602	GASKET, oil sump, side
2 70236660	GASKET, oil sump, end
70229860	GASKET SET, oil sump
2 70203036	GASKET, rear bearing cap (Discard)
2 70233602	GASKET, side
6 70229177	CLIP (Discard)
2 70229178	GASKET, rear bearing cap
2 70236660	GASKET, end
-----	GEAR SET, transmission
1 -----	SHAFT, pinion
1 -----	GEAR, bevel
-----	MOTOR KIT (See PISTON AND CYLINDER LINER)
-----	REPAIR KIT, brake master cylinder (See page 125)
-----	REPAIR KIT, carburetor (See CARBURETOR section)
-----	REPAIR KIT, circle turn motor (See page 155)
-----	RING SET, piston (See PISTON AND CYLINDER LINER)
-----	SEAL KIT, water pump (See page 83)



(Revised May 1978)



T-76362

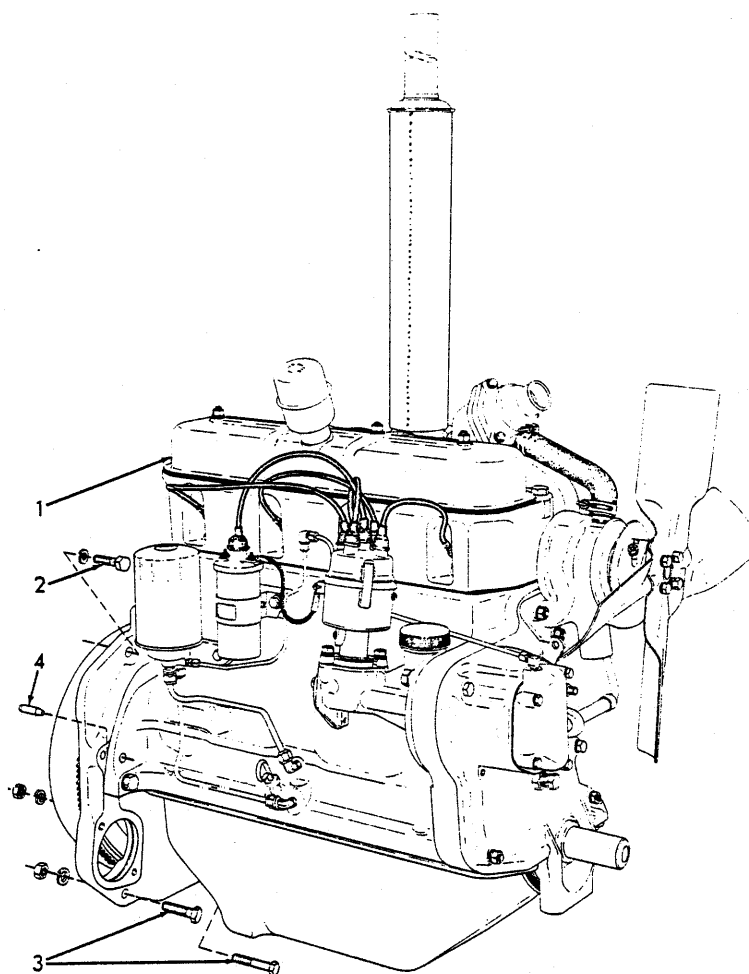
ENGINE ASSEMBLY

USAGE: Diesel-powered. Effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
------	----------	------	-------------

1	74516525	1	ENGINE ASSY. (Includes oil filter, fuel filter and water pump but does not include air cleaner, fan, starter, alternator or muffler)
	74517196	1	SHORT BLOCK ASSY. (Includes pistons and rings, cylinder sleeves, connecting rods, main rod and camshaft bearings; camshaft and crankshaft. Does not include oil filter, fuel filters, water pump, manifolds, air cleaner, fan, starter, timing gear cover, flywheel, oil pump, fuel injection pump, alternator, muffler, fuel injection nozzles, cylinder head, oil pan or gaskets)

NOTE: See MAIN FRAME for engine mounting parts.



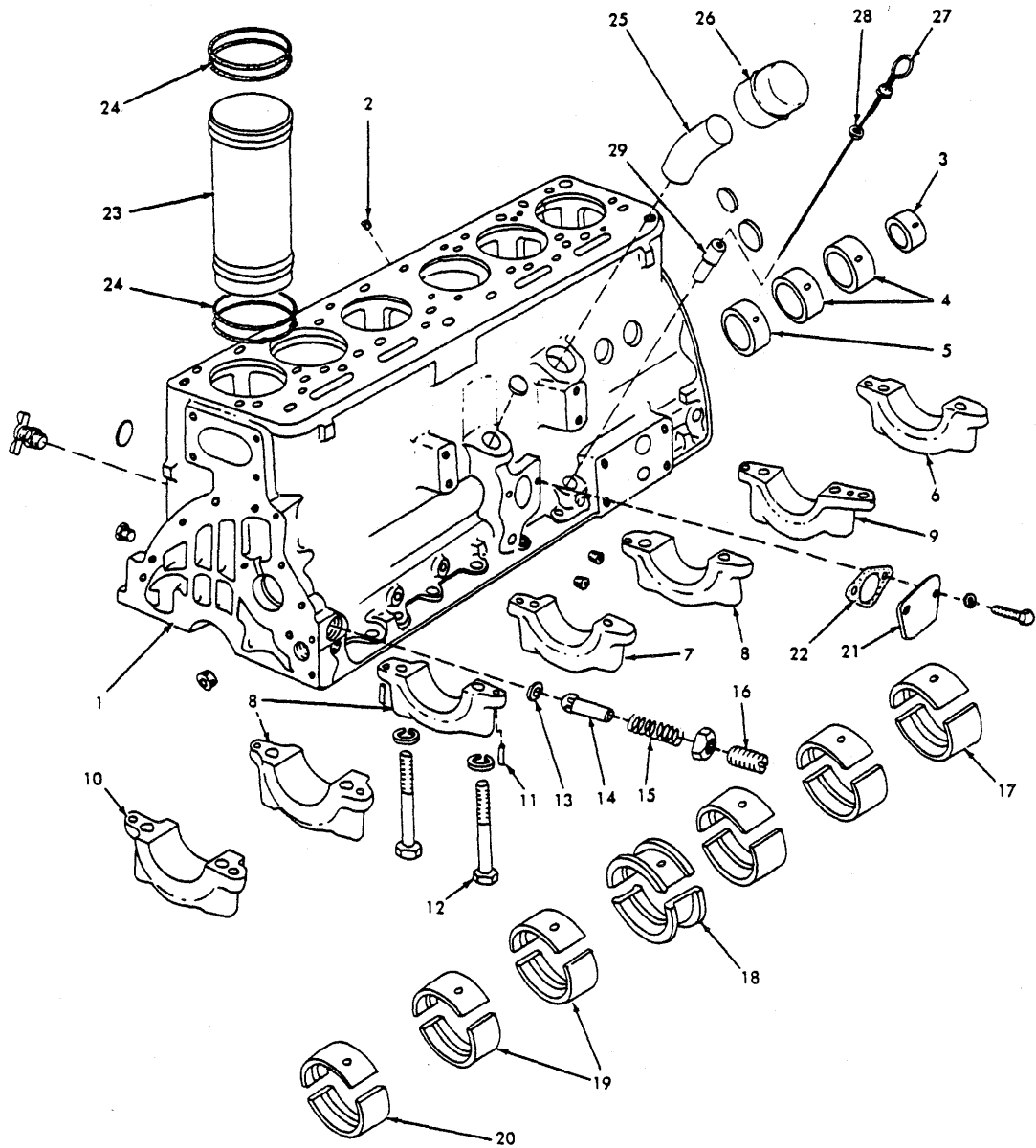
ENGINE ASSEMBLY (Model 17)

T-19574

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

1	70677257	1	ENGINE ASSY. (Includes carburetor, distributor, coil, fan, oil filter, muffler and clutch. For burning gasoline. Compression ratio 7.25 to 1).
2	70920583	1	CAPSCREW, 1/2"NC x 1-1/2"
	70921556	1	CAPSCREW, 1/2"NC x 2" (Used prior to grader unit #00642)
3	70924864	1	CAPSCREW, 1/2"NC x 2-1/4" (Grader unit #00642 and up)
	70920752	1	CAPSCREW, 1/2"NC x 2-1/4"
	70922526	1	CAPSCREW, 1/2"NC x 2-1/2"
	70922510	1	CAPSCREW, 1/2"NC x 2-3/4"
	70912441	5	LOCKWASHER, 1/2"
	70911028	4	NUT, 1/2"NC
4	70202532	1	PIN, dowel, engine to transmission
	70647445	1	STUD, dowel, engine to transmission



CYLINDER BLOCK

T-40525

CYLINDER BLOCK

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74514963	1	BLOCK ASSY., cylinder
	70919134	5	PLUG, pipe, hex-hd., 1/8"NPT
	70919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	70920333	1	PLUG, pipe, hex-hd., 3/8"NPT
	70904260	2	PLUG, pipe, sq-socket, 3/8"NPT
	70917299	1	PLUG, expansion, 1-5/16" diam.
	70910014	1	PLUG, expansion, 1-1/2" diam.
	70912415	1	COCK, drain, 1/4"NPT

NOTE: Each BLOCK ASSEMBLY includes items 2 thru 13 and hardware indented above

2	74511159	1	PLUG, oil level gauge hole (right side)
3	74514025	1	BEARING, camshaft, rear
4	74514024	2	BEARING, camshaft, intermediate
5	74514023	1	BEARING, camshaft, front
6	74511248	1	*CAP, rear main bearing
7	74511250	1	*CAP, center main bearing
8	74511246	3	*CAP, intermediate main bearing (#2, #3, #5)
9	74513575	1	*CAP, intermediate main bearing (#6)
10	74511252	1	*CAP, front main bearing
	74514110	14	PIN, dowel, main bearing cap (standard size)
11	74511822	14	PIN, dowel, main bearing cap (.030" oversize)
12	74500327	14	CAPSCREW, main bearing cap
	70910153	14	LOCKWASHER, 9/16"
13	74507673	1	INSERT, oil pressure regulating valve
14	74507374	1	PISTON, oil pressure regulating valve
15	74500231	1	SPRING, oil pressure regulating valve
16	74022129	1	SCREW, oil pressure regulating valve
17	74514858	2	ΔBEARING, rear main (standard size)
	74514862	2	BEARING, rear main (.002" undersize)
	74514859	2	BEARING, rear main (.010" undersize)
	74514860	2	BEARING, rear main (.020" undersize)
	74514861	2	BEARING, rear main (.040" undersize)

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

ΔIndicates component of item 30

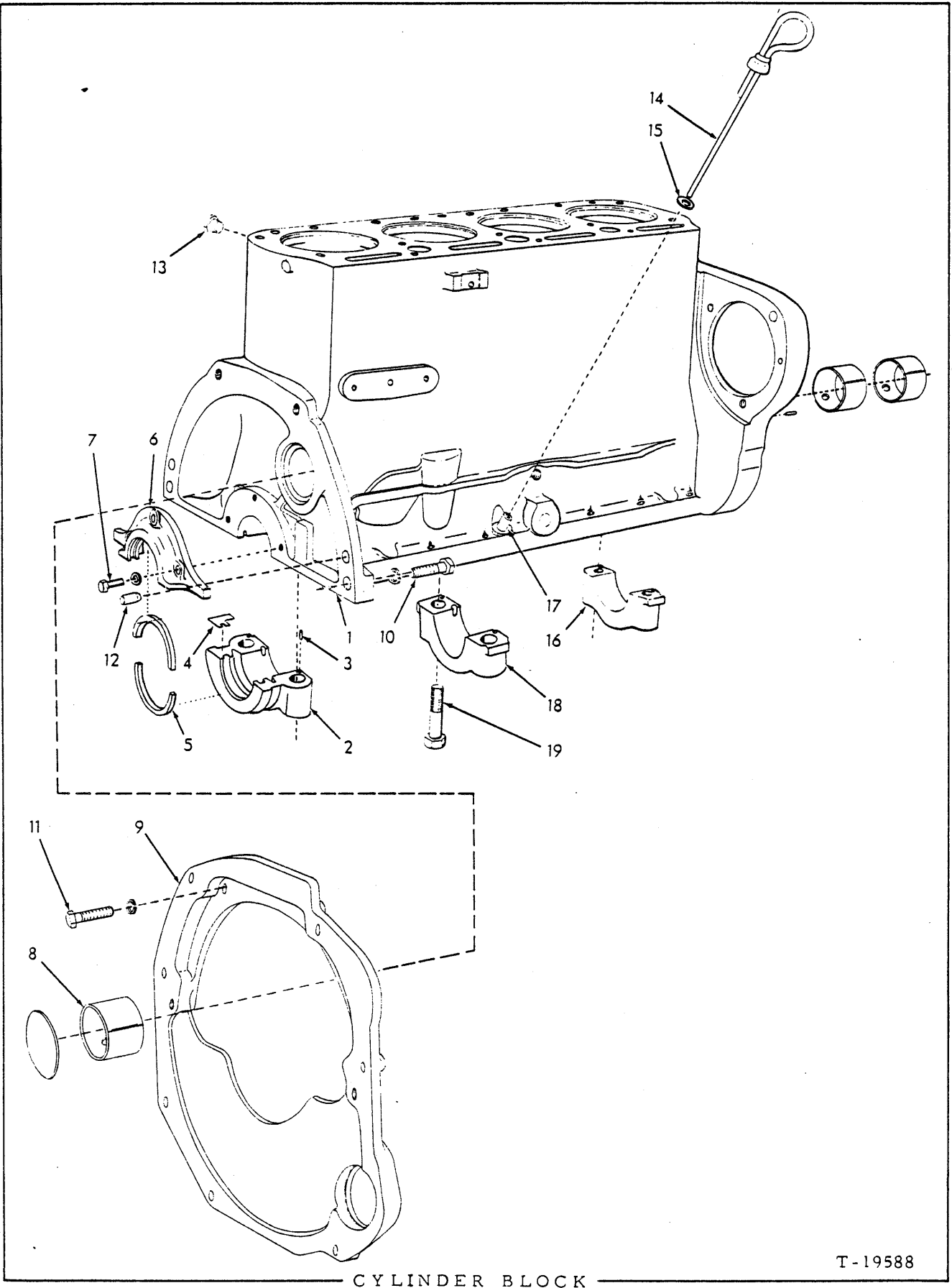
(Continued)

(Revised June 1977)

CYLINDER BLOCK (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
18	74514843	2	△BEARING, center main (standard size)
	74514847	2	BEARING, center main (.002" undersize)
	74514844	2	BEARING, center main (.010" undersize)
	74514845	2	BEARING, center main (.020" undersize)
	74514846	2	BEARING, center main (.040" undersize)
19	74514853	8	△BEARING, intermediate main (standard size)
	74514857	8	BEARING, intermediate main (.002" undersize)
	74514854	8	BEARING, intermediate main (.010" undersize)
	74514855	8	BEARING, intermediate main (.020" undersize)
	74514856	8	BEARING, intermediate main (.040" undersize)
20	74514848	2	△BEARING, front main (standard size)
	74514852	2	BEARING, front main (.002" undersize)
	74514849	2	BEARING, front main (.010" undersize)
	74514850	2	BEARING, front main (.020" undersize)
	74514851	2	BEARING, front main (.040" undersize)
21	74500332	1	COVER, fuel pump pad
	70916277	2	CAPSCREW, 5/16"NC x 5/8"
	70917330	2	WASHER, copper
22	74503956	1	□GASKET, pad cover
23	74510817	6	□SLEEVE, cylinder (3-9/16" bore)
	74508465	6	□SLEEVE, cylinder (3-9/16" bore. Has .020" thicker top flange. Requires remachining of cylinder block)
24	74514615	6	□RING, packing, lower
	74516606	6	□RING, packing, upper
25	74507375	1	TUBE, oil filler
26	74514000	1	CAP, oil filler pipe
27	74509242	1	GAUGE, oil level
28	74506607	1	SEAL, oil level gauge
29	74506593	1	ADAPTER, oil level gauge
30	74061112	1	KIT, bearing, standard size (Includes items 17 thru 20)

△Indicates component of item 30



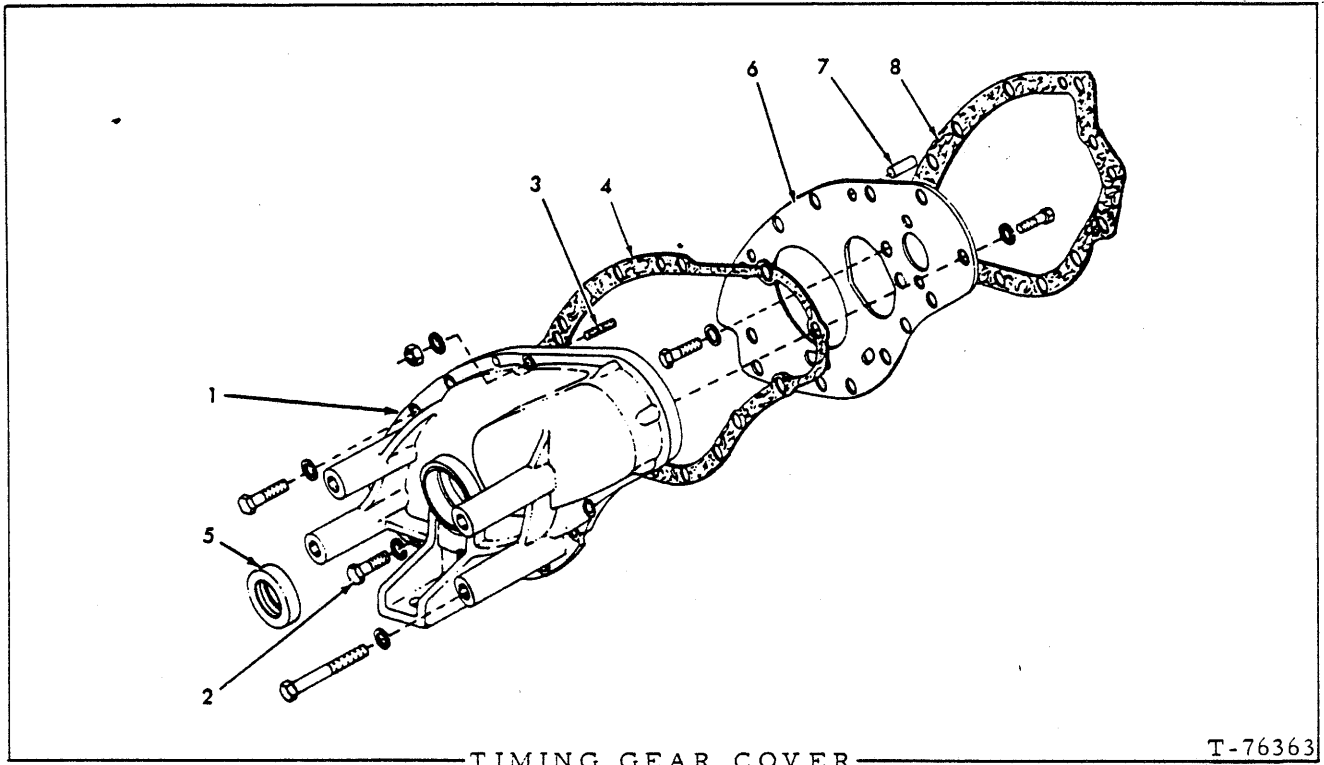
CYLINDER BLOCK

T-19588

CYLINDER BLOCK

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM	PART NO.	QTY.	DESCRIPTION
1	70232545	1	BLOCK ASSY., cylinder (Includes items 2, 3, 8, 16, 18 and 19; also 1 PLUG 70910011)
	70910011	1	PLUG, expansion, 2-1/2" diam. (camshaft hole)
2	70229171	1	CAP, rear bearing
3	70229370	6	PIN, dowel, bearing cap
4	70229178	2	□ GASKET, rear bearing cap
5	-----	2	SEAL, oil (See CRANKSHAFT)
6	70229179	1	RETAINER, crankshaft rear oil seal
7	70229715	3	CAPSCREW, drilled head, 5/16"NC x 7/8"
	70904205	3	LOCKWASHER, 5/16"
8	-----	3	BUSHING, camshaft (See CAMSHAFT)
9	70677345	1	ADAPTER, engine to transmission
10	70920574	2	CAPSCREW, 1/2"NC x 1-3/8"
11	70921556	2	CAPSCREW, 1/2"NC x 2"
	70904208	4	LOCKWASHER, 1/2"
12	70202532	2	PIN, dowel, engine adapter
13	70919840	1	PLUG, pipe, hex-hd., 1/4"NPT
14	70230066	1	ROD ASSY., oil level gauge (Includes item 15)
15	70204014	1	SEAL, oil level gauge rod
16	70229173	1	CAP, front bearing
17	70230331	1	BUSHING, oil level gauge rod
18	70229172	1	CAP, center bearing
19	70229174	6	CAPSCREW, bearing cap



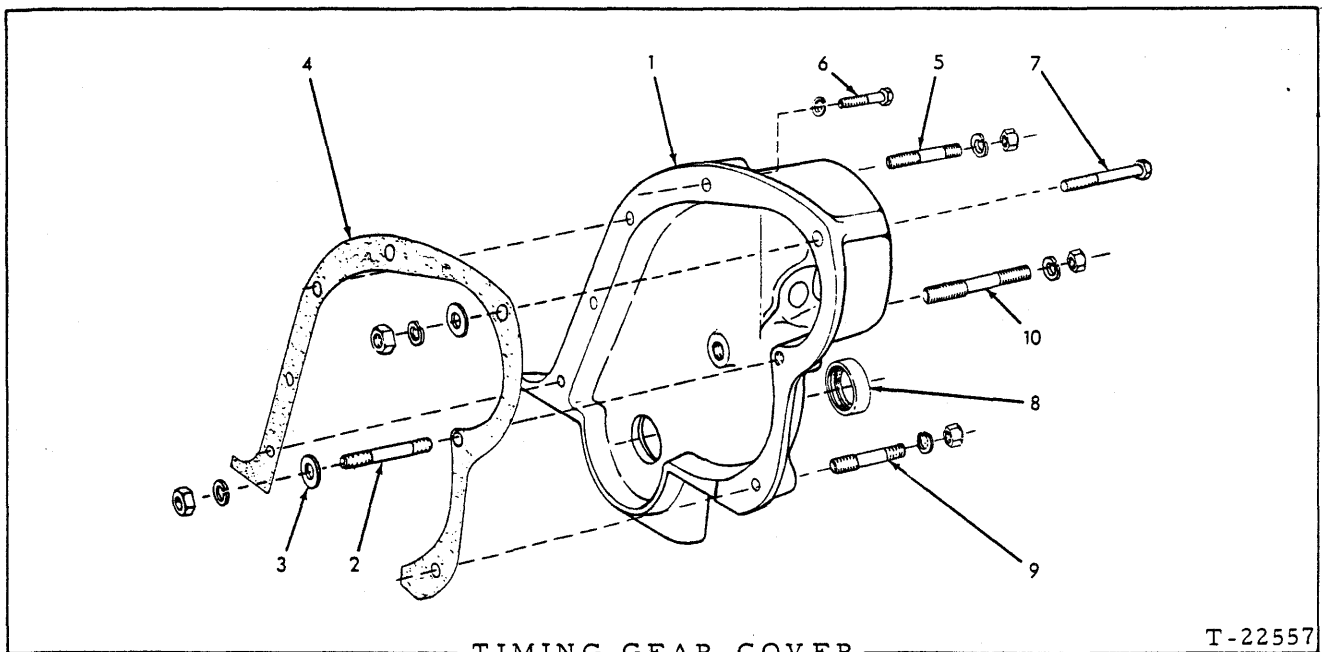
TIMING GEAR COVER

T-76363

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74512402	1	COVER, timing gear
	70916272	3	CAPSCREW, 3/8"NC x 1-1/4"
	70916274	1	CAPSCREW, 3/8"NC x 2-1/4"
2	74513383	5	CAPSCREW, Nylok, 3/8"NC x 1-1/8"
	70904206	9	LOCKWASHER, 3/8"
3	74514034	1	STUD, timing gear cover
	70904206	1	LOCKWASHER, 3/8"
	70910123	1	NUT, 3/8"NF
4	74507505	1	□GASKET, gear cover
5	74513621	1	SEAL, oil, crankshaft
6	74515486	1	PLATE, engine mounting
	70916269	3	CAPSCREW, 3/8"NC x 7/8"
	70915408	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	5	LOCKWASHER, 3/8"
7	70917539	2	PIN, dowel, gear cover (3/8" x 1")
8	74508186	1	□GASKET, mounting plate

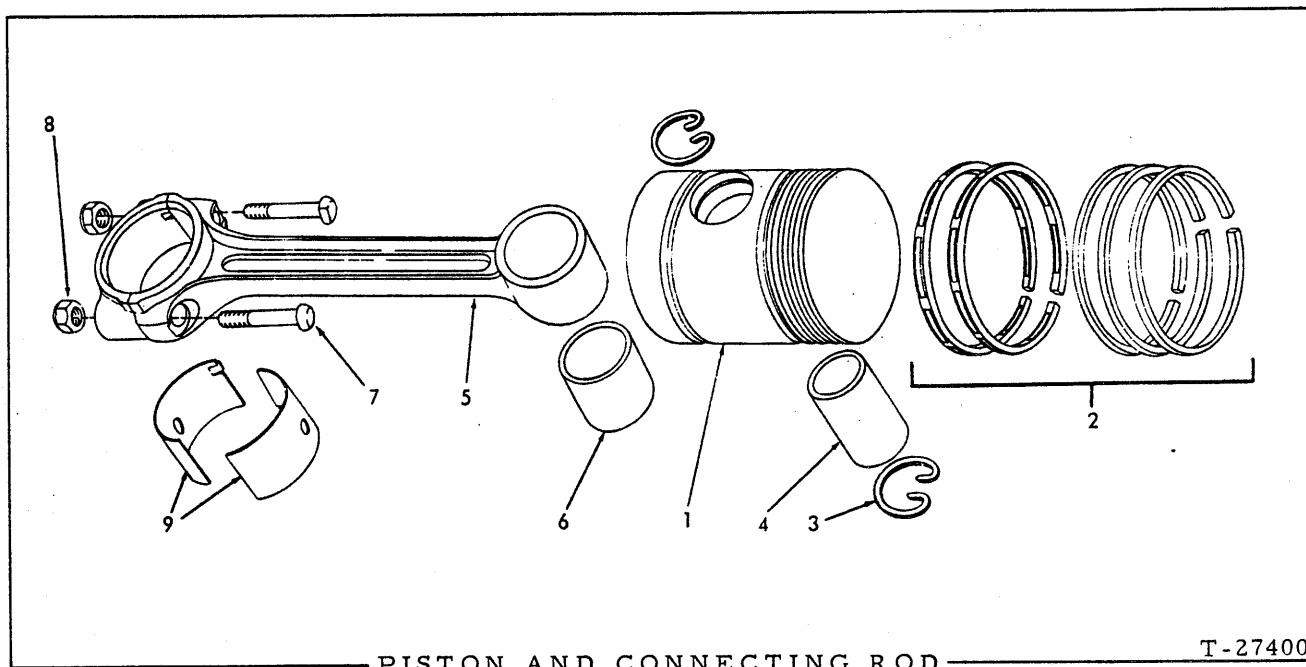
(Revised June 1977)



USAGE: Gas - powered, effective serial No. 75Y00201

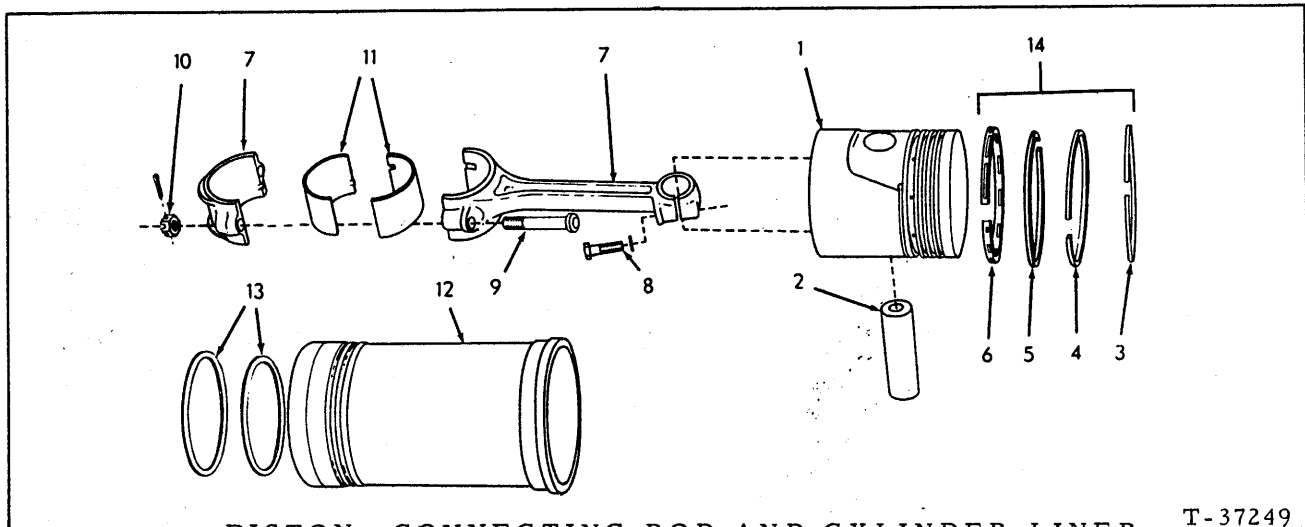
ITEM PART NO. QTY. DESCRIPTION

1	70224915	1	COVER, timing gear
2	70229706	1	STUD, gear cover (3/8"NC x 3-1/8")(Also attaches distributor drive housing)
	70904206	1	LOCKWASHER, 3/8"
	70910324	1	NUT, 3/8"NC
3	70225771	2	WASHER, plain
4	70233214	1	□ GASKET, cover to cylinder block
5	70228394	1	STUD, gear cover
	70904206	1	LOCKWASHER, 3/8"
	70910324	1	NUT, 3/8"NC
6	70227307	2	CAPSCREW, gear cover (3/8"NC x 1-3/4")
	70904206	2	LOCKWASHER, 3/8"
7	70919015	1	CAPSCREW, gear cover (3/8"NC x 3-1/2")(Also attaches distributor drive housing)
	70904206	1	LOCKWASHER, 3/8"
	70900367	1	NUT, 3/8"NC
8	-----	1	SEAL, oil (See CRANKSHAFT AND FLYWHEEL)
9	70230392	1	STUD, gear cover (2-1/2" long)
	70904206	1	LOCKWASHER, 3/8"
	70910324	1	NUT, 3/8"NC
10	70234226	1	STUD, gear cover (4" long)
	70904206	1	LOCKWASHER, 3/8"
	70910324	1	NUT, 3/8"NC



USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74061559	6	□PISTON (Includes items 2, 3, and 4)
2	74516738	6	RING SET
3	74514586	12	RING, snap, piston pin retaining
4	74507710	6	PIN, piston
5	74515119	6	ROD ASSY., connecting (Includes items 6 thru 8)
6	74507127	6	BUSHING, piston pin
7	74515070	12	BOLT, connecting rod
8	74516821	12	NUT, connecting rod bolt
9	74514863	12	BEARING, connecting rod (Standard size)
	74514867	12	BEARING, connecting rod (.002" undersize)
	74514864	12	BEARING, connecting rod (.010" undersize)
	74514865	12	BEARING, connecting rod (.020" undersize)
	74514866	12	BEARING, connecting rod (.040" undersize)



PISTON, CONNECTING ROD AND CYLINDER LINER T-37249

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

NOTE: Each piston assembly listed below includes fitted piston pin

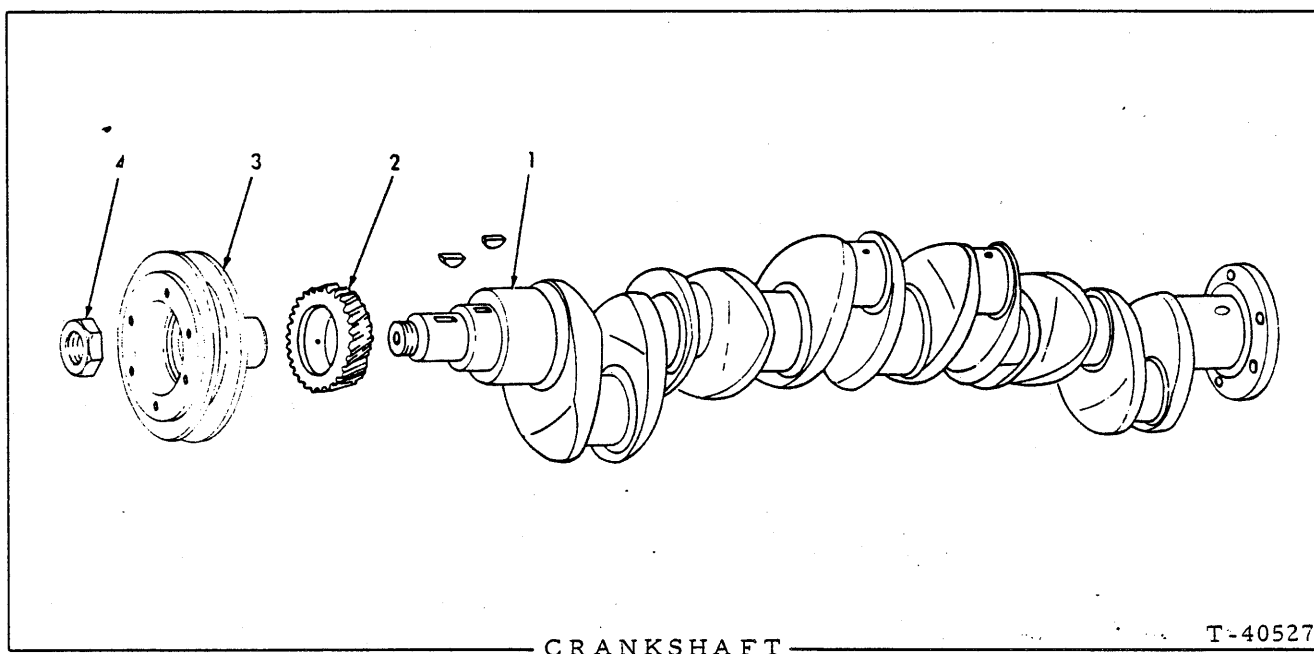
1	70229718	4	* PISTON ASSY. (7.25 to 1 ratio. For gasoline at low altitude)
	70230577	4	* PISTON ASSY. (8.25 to 1 ratio. For gasoline at high altitude)
2	70203052	4	* PIN, piston
3	70230086	4	□ RING, compression (top groove)
4	70229537	4	□ RING, compression (2nd groove)
5	70229537	4	□ RING, compression (3rd groove)
6	70229538	4	□ RING, oil control
7	70232569	4	ROD ASSY., connecting (Includes items 8 thru 10)
8	70232443	4	CAPSCREW, piston pin retaining
	70904206	4	LOCKWASHER, 3/8"
9	70224620	8	BOLT, connecting rod cap
10	70915652	8	NUT, connecting rod bolt (self-locking, 7/16"NF)
	70231125	4	* BEARING, connecting rod (two halves-std. size)
11	70231126	4	BEARING, connecting rod (two halves - .001" undersize)
	70231127	4	BEARING, connecting rod (two halves - .0025" undersize)
12	70257450	4	* LINER, cylinder
13	70227500	8	* RING, packing, cylinder liner
14	70230091	1	RING SET, piston (Sufficient for entire engine; items 3 thru 6)

NOTE: Each MOTOR KIT listed below includes full set of pistons, pins, rings, cylinder liners and packing rings

--	70283605	1	MOTOR KIT (Includes PISTON ASSY. 70229718)
--	70283730	1	MOTOR KIT (Includes PISTON ASSY. 70230577)

□ Indicates components of item 14

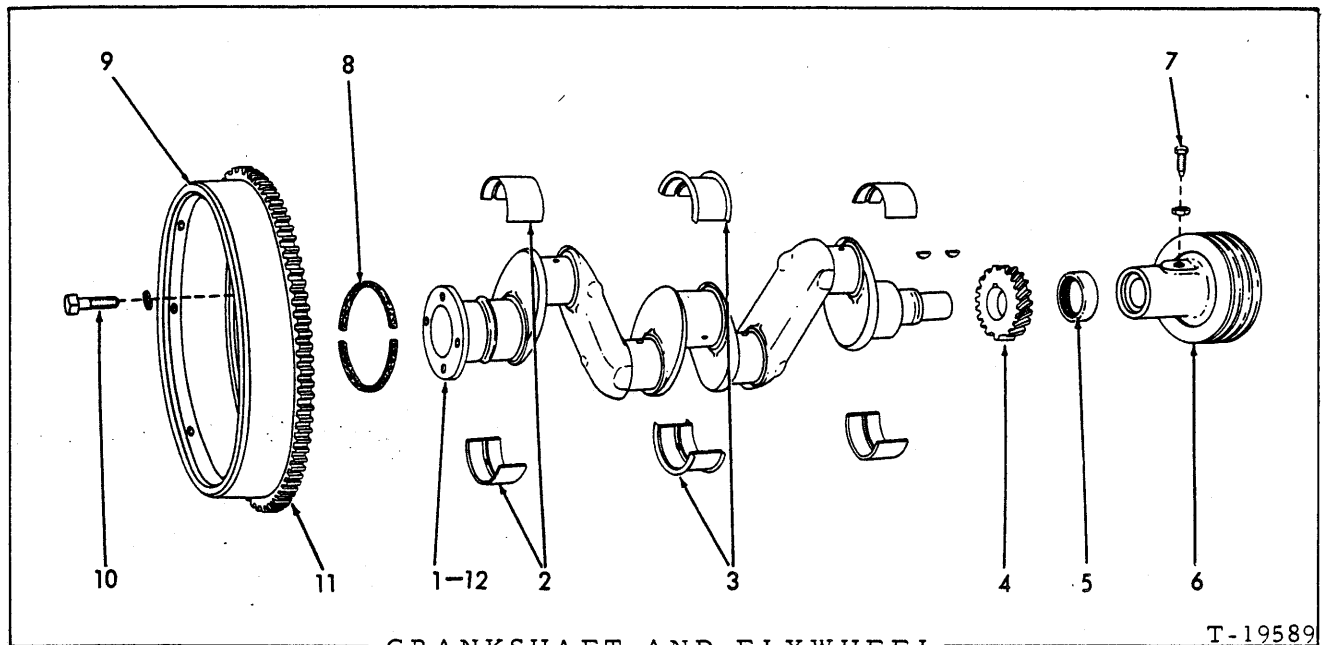
* Indicates components of MOTOR KIT



USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74507700	1	CRANKSHAFT
	70905845	2	KEY, #A woodruff, 1/4" x 7/8"
2	74511258	1	GEAR, crankshaft
3	74512483	1	PULLEY
4	74512820	1	NUT, pulley retaining (self-locking)

(Revised June 1977)



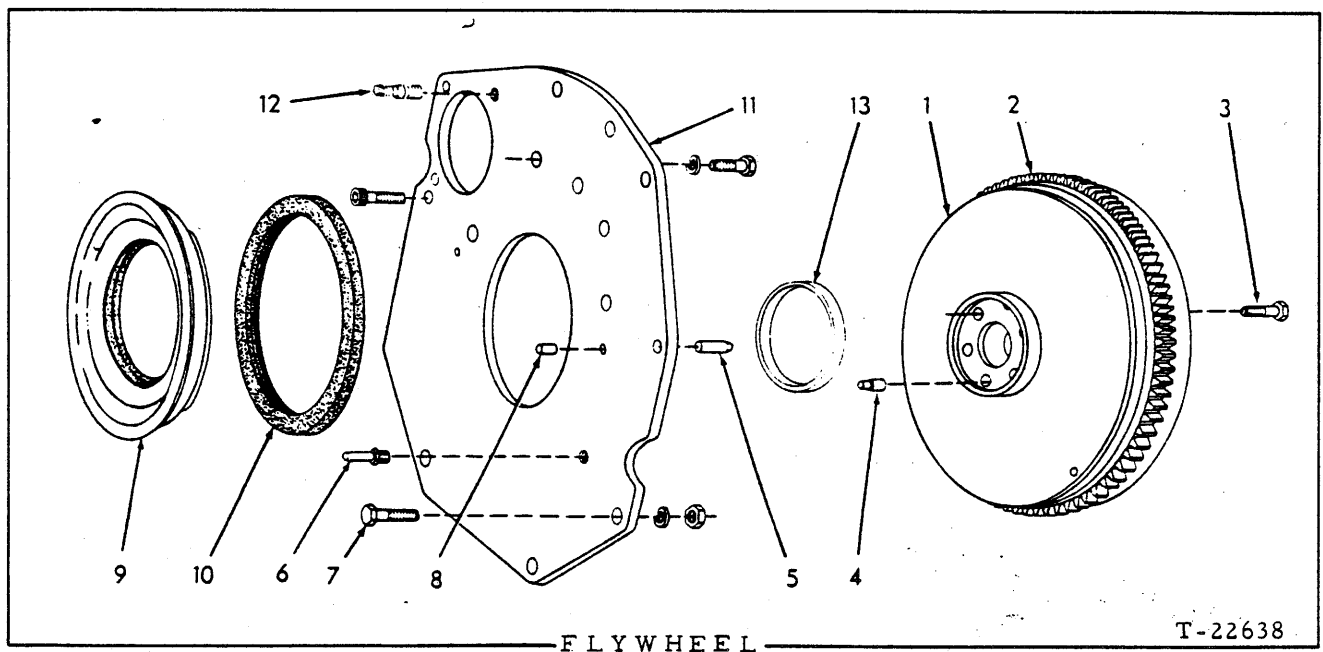
CRANKSHAFT AND FLYWHEEL

T-19589

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

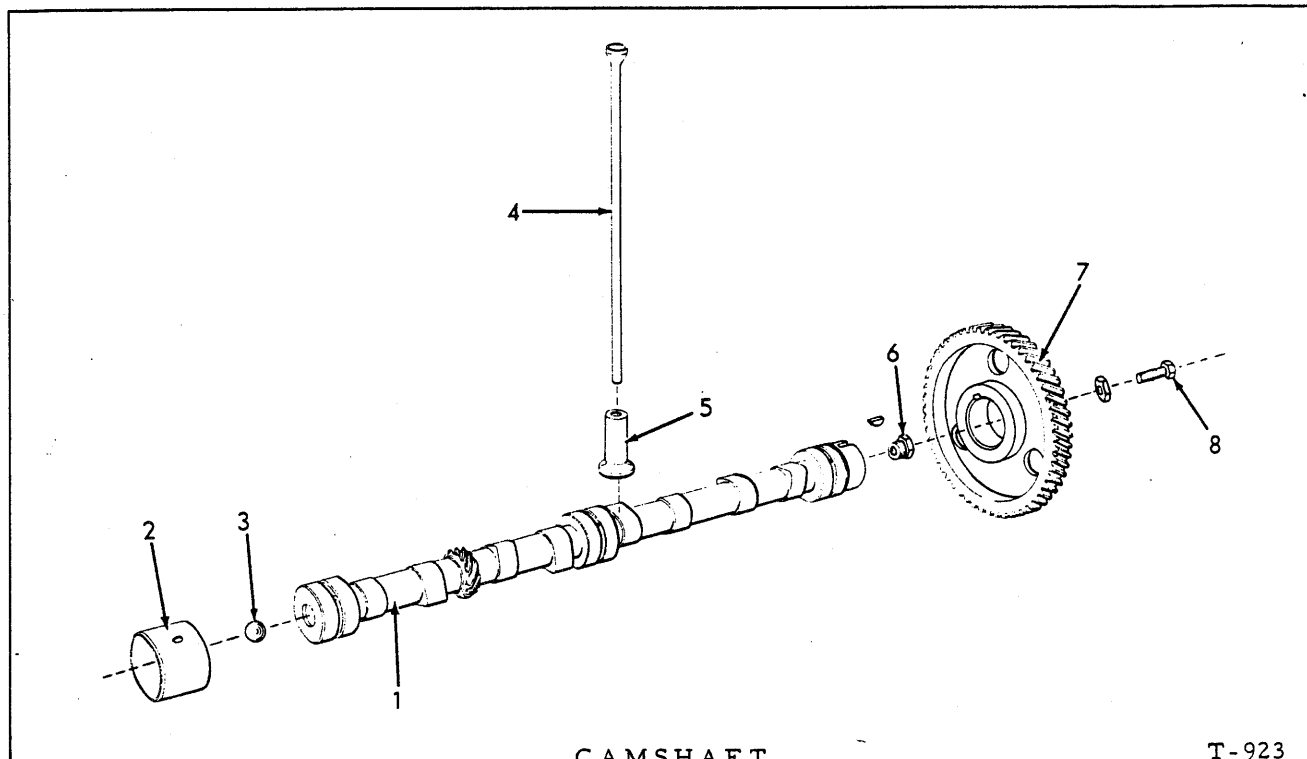
1	-----	1	□ CRANKSHAFT (Order item 12)
2	70234178	2	□ BEARING, two halves, front and rear main (standard size)
	70234469	2	BEARING, two halves, front and rear main (.001" undersize)
	70234471	2	BEARING, two halves, front and rear main (.0025" undersize)
3	70234177	1	□ BEARING, two halves, center main (standard size)
	70234468	1	BEARING, two halves, center main (.001" undersize)
	70234470	1	BEARING, two halves, center main (.0025" undersize)
4	70230217	1	□ GEAR, timing
	70910184	1	□ KEY, #8 woodruff, 5/32" x 3/4"
5	70226620	1	SEAL, front
6	70677214	1	PULLEY, crankshaft (First type. 3 tapped holes)
	70698208	1	PULLEY, crankshaft (Second type. 6 tapped holes)
	70910184	1	KEY, #8 woodruff, 5/32" x 3/4"
7	70207872	1	SETSCREW, pulley retaining
	70911036	1	NUT, jam, 5/8"NC
8	70241294	2	SEAL, rear (half only)
9	70232444	1	FLYWHEEL ASSY. (Includes item 11)
10	70223527	4	CAPSCREW, 1/2"NF x 1-1/8"
	70904208	4	LOCKWASHER, 1/2"
11	70226830	1	GEAR, flywheel ring
12	70241291	-	CRANKSHAFT KIT (Includes set of connecting rod bearings; main bearings and shims, crankshaft gear and gear key)



USAGE: Diesel-powered, effective serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74516660	1	FLYWHEEL ASSY. (Includes item 2)(If for first replacement on Engines prior to #D-18093 also order ADAPTER 70681807 , 1 STUD 70681805 and 2 STUD 70681804)
2	74508877	1	GEAR, flywheel ring
3	74254594	4	CAPSCREW, flywheel attaching
4	74500300	2	DOWEL, flywheel
5	70202532	1	PIN, dowel, adapting plate to transmission housing
6	74508897	1	PIN, timing locator
7	70921556	4	CAPSCREW, adapting plate to transmission housing (1/2"NC x 2") (1 less used effective with grader unit #00642)
	70924864	1	CAPSCREW, adapting plate to transmission housing (Also attaches horn bracket)(1/2"NC x 2-1/4")(Grader unit #00642 and up)
	70912441	4	LOCKWASHER, 1/2"
	70911028	4	NUT, 1/2"NC
8	70917539	2	PIN, dowel, adapter to cylinder block (3/8" x 1")
9	74516486	1	SEAL, oil (6" O. D., 4-5/8" I. D.)
10	74502930	1	SEAL, engine adapting plate
11	74516559	1	ADAPTER, engine to transmission
	70918683	7	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	7	LOCKWASHER, 1/2"
	77125012	1	CAPSCREW, hex-socket-hd. (1/2"NC x 2")
12	-----	1	STUD, adapting plate to transmission housing (See STARTING MOTOR)
	-----	1	LOCKWASHER
	-----	1	NUT
13	74514813	1	SLEEVE, wear, flywheel oil seal

(Revised June 1977)



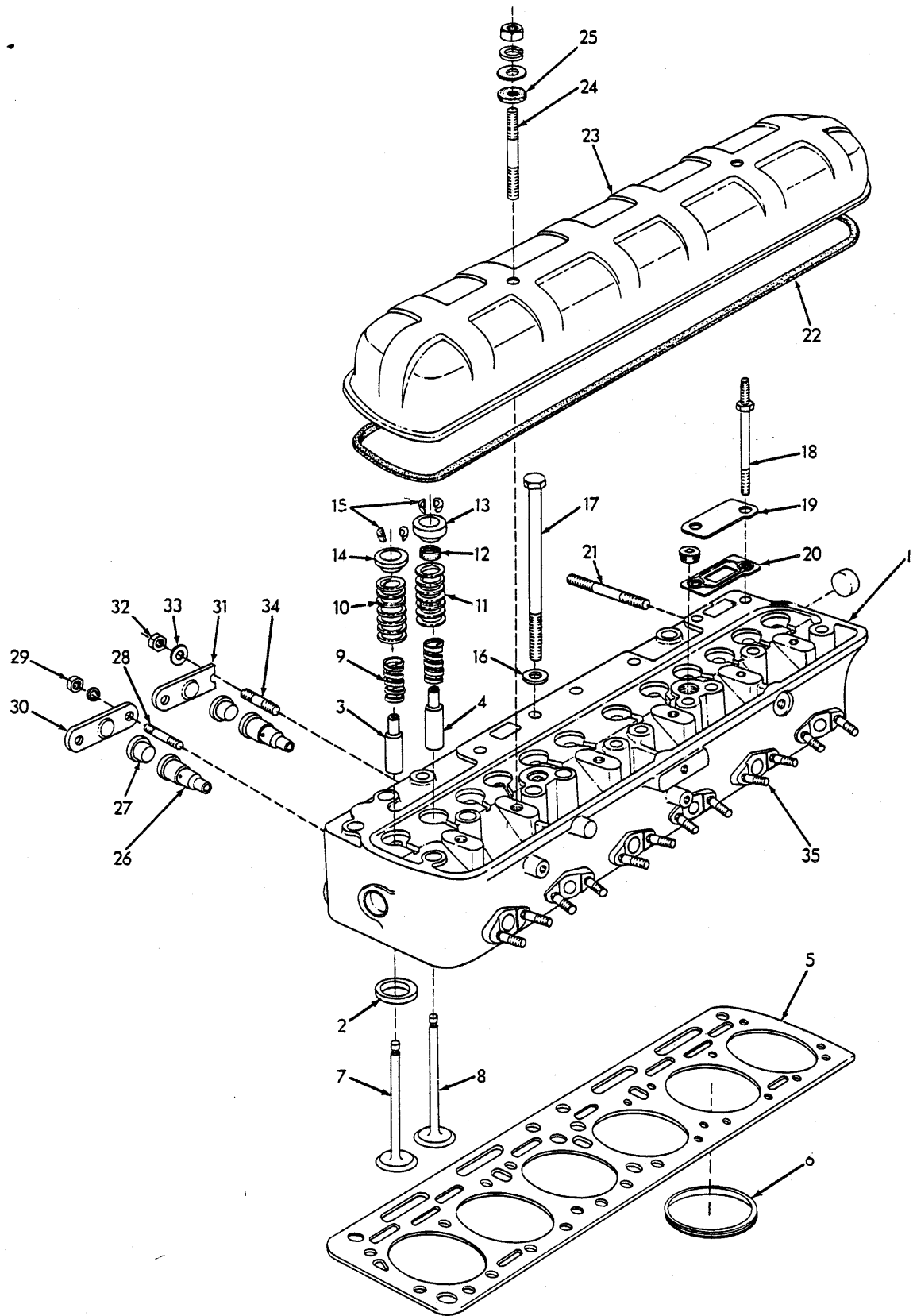
CAMSHAFT

T-923

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

1	70236580	1	CAMSHAFT
2	70229953	3	BUSHING (std. size)
	70229955	3	BUSHING (.0025" undersize)
3	70917148	1	BALL, steel, 9/16" diam.
4	70203018	8	ROD, push
5	70203017	8	TAPPET, valve
6	70225689	1	PLUG, front thrust
7	70227038	1	GEAR, timing
	70910184	1	KEY, #8 woodruff, 5/32" x 3/4"
8	70225688	1	SCREW, front thrust
	70910345	1	NUT, jam, 5/8"NF



CYLINDER HEAD AND VALVES

T-40533

CYLINDER HEAD AND VALVES

USAGE: Diesel-powered, effective serial No. 24A00201, 56Y02201

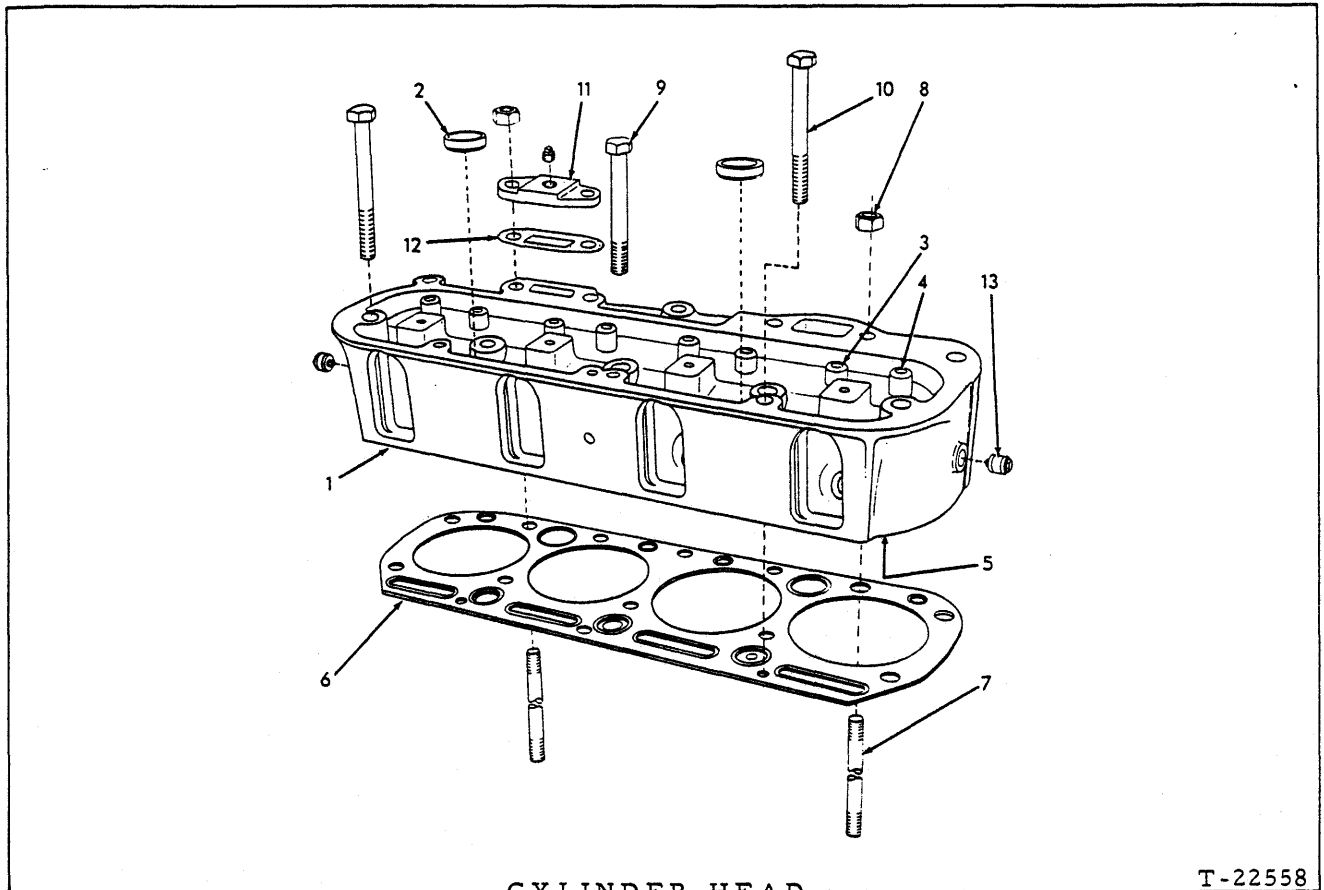
ITEM	PART NO.	QTY.	DESCRIPTION
1	74514789	1	HEAD ASSY., cylinder (Includes items 2, 3 and 4; also PLUGS indented below)
	70930202	2	PLUG, cup, 1-1/8" drain
	70918851	2	PLUG, pipe, hex-socket, 3/4"NPT
2	{ 74514297	6	INSERT, exhaust valve (standard size)
	74514311	6	INSERT, exhaust valve (.005" oversize)
3	74504475	6	GUIDE, exhaust valve
4	74513354	6	GUIDE, intake valve
5	74514398	1	□GASKET ASSY., cylinder head (Includes item 6)
6	74513721	6	GASKET, fire ring (cylinder sealing)
7	74514299	6	VALVE, exhaust
8	74514298	6	VALVE, intake
9	74513812	12	DAMPENER, valve spring
10	74513811	6	SPRING ASSY., exhaust valve (Includes item 9)
11	74513813	6	SPRING ASSY., intake valve (Includes item 9)
12	74513421	1	SEAL KIT, intake valve (6 seals; also includes installing tool)
13	74513139	6	CAP, rotating, intake valve spring
14	74353139	6	RETAINER, exhaust valve spring
15	74356080	24	LOCK, half, valve spring retainer
16	74372864	20	WASHER, cylinder head hold-down (Not used with second type capscrews, item 17)
	{ 74514380	15	CAPSCREW, cylinder head (5-3/8")(Engines prior to #D-18842)
	74516589	1	CAPSCREW, cylinder head (Engine #D-18842 and up)
17	{ 74514381	1	CAPSCREW, cylinder head (5-3/4")(Engines prior to #D-19300)
	74516585	1	CAPSCREW, cylinder head (Engine #D-19300 and up)
	74514386	2	CAPSCREW, cylinder head (6-7/8")
18	{ 74514402	1	CAPSCREW, cylinder head (5-3/4" with stud head)
	74514400	1	CAPSCREW, cylinder head (5-3/8" with stud head)
19	74513529	1	COVER, water hole
20	74513723	1	□GASKET, water hole cover
21	74501050	6	STUD, intake and exhaust manifold
22	74513482	1	□GASKET, cylinder head cover

(Continued)

(Revised June 1977)

CYLINDER HEAD AND VALVES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
23	74504350	1	COVER, cylinder head
24	-----	2	STUD, cylinder head cover (See VALVE MECHANISM AND CAMSHAFT)
	70900817	2	WASHER, plain, U.S. std., 3/8"
	70904206	2	LOCKWASHER, 3/8
	70910123	2	NUT, 3/8"NF
25	74105451	2	□GASKET, cylinder head cover nut
26	74507386	6	CELL ASSY., air (Includes orifice and pin (Serviced only as a unit)
27	74500967	6	PLUG, air cell
28	74506946	8	STUD, air cell retaining
29	74253346	8	NUT, air cell retaining stud (3/8"NF)
	70904206	8	LOCKWASHER, 3/8"
30	74502009	2	FLANGE, air cell retaining, end
31	74504454	4	FLANGE, air cell retaining, center
32	74253348	2	NUT, air cell retaining stud (1/2"NF)
33	74250723	2	WASHER, plain
34	74507343	2	STUD, air cell retaining
35	-----	12	STUD, nozzle retaining (See INJECTION NOZZLES AND LINES)



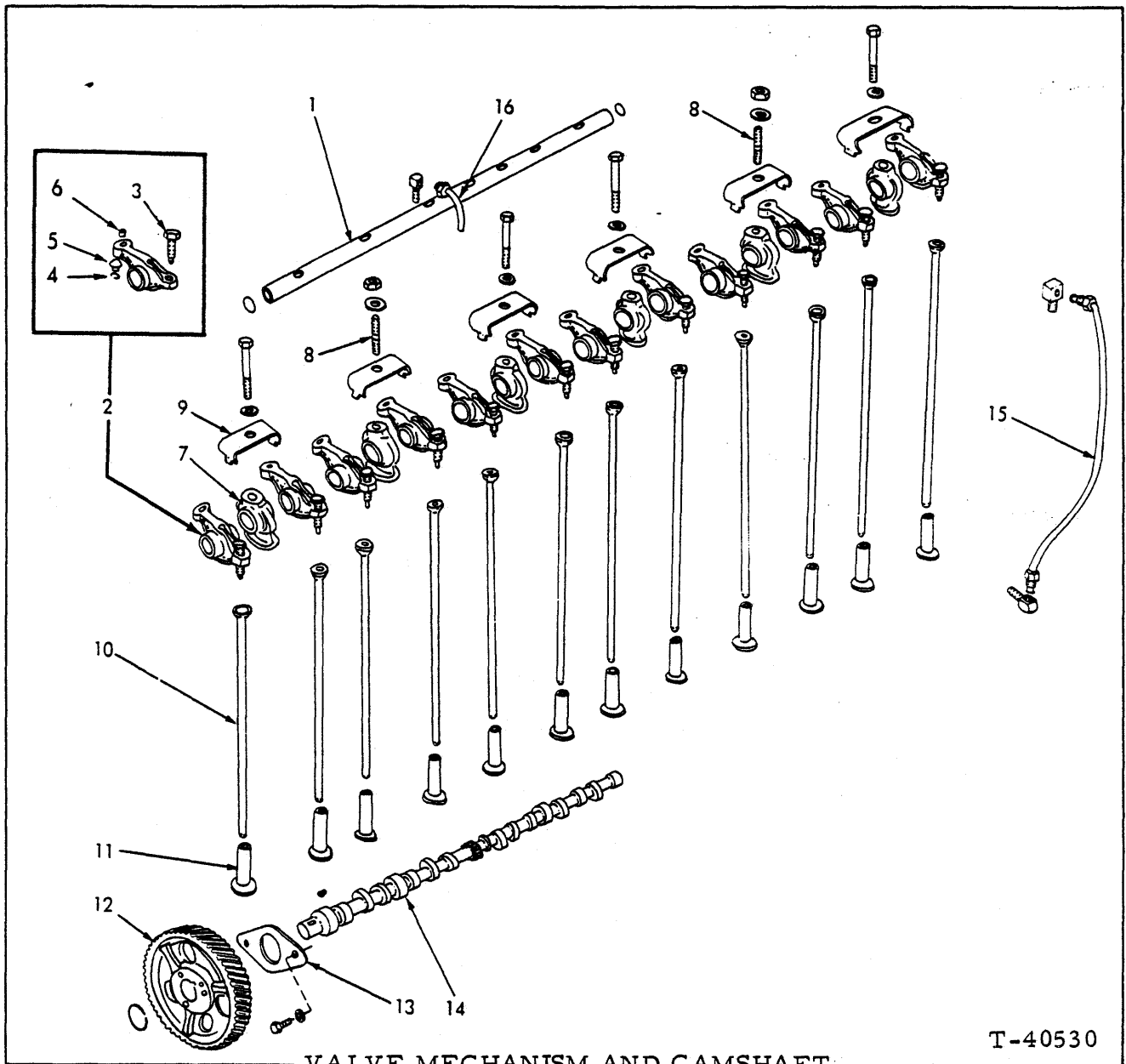
CYLINDER HEAD

T-22558

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

1	70241524	1	HEAD ASSY. (Includes items 2 thru 5 and 13)	
2	70230357	2	PLUG, water hole	
3	-----	4	GUIDE, intake valve	} See VALVES AND ROCKER ARMS
4	-----	4	GUIDE, exhaust valve	
5	-----	4	SEAT, exhaust valve	
6	70229406	1	□ GASKET, cylinder head	
7	70224729	4	STUD, cylinder head (1/2" x 5-7/8")	
8	70203461	4	NUT, cylinder head stud (1/2"NF)	
9	70224731	3	CAPSCREW, cylinder head (1/2"NC x 4")	
	70236531	5	CAPSCREW, cylinder head (1/2"NC x 4-3/4")	
10	70229410	3	CAPSCREW, cylinder head (7/16"NC x 4-1/2")	
11	70229409	1	COVER, water hole	
	70905261	1	PLUG, pipe, 1/2"NPT (Removed when cab heater is installed)	
12	70233216	1	□ GASKET, water hole cover	
13	70233155	2	PLUG ASSY., clean-out	



T-40530

VALVE MECHANISM AND CAMSHAFT

USAGE: Diesel-powered, effective serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74505260	1	SHAFT ASSY., rocker arm (Includes PLUGS indented below)
	70914590	2	PLUG, expansion, 11/16" diam.
2	-----	12	ARM ASSY., rocker (Engines prior to #D-22649) (Order 12 ARM ASSY. 74517036)
	74517036	12	ARM ASSY., rocker (Includes items 3 thru 6) (Engines #D-22649 and up)
3	74513206	12	SCREW, adjusting
	74001304	12	NUT, locking
4	74501178	12	RETAINER, rocker ball
5	74501177	12	BALL, rocker arm
6	74501211	12	WICK, oiling, rocker arm

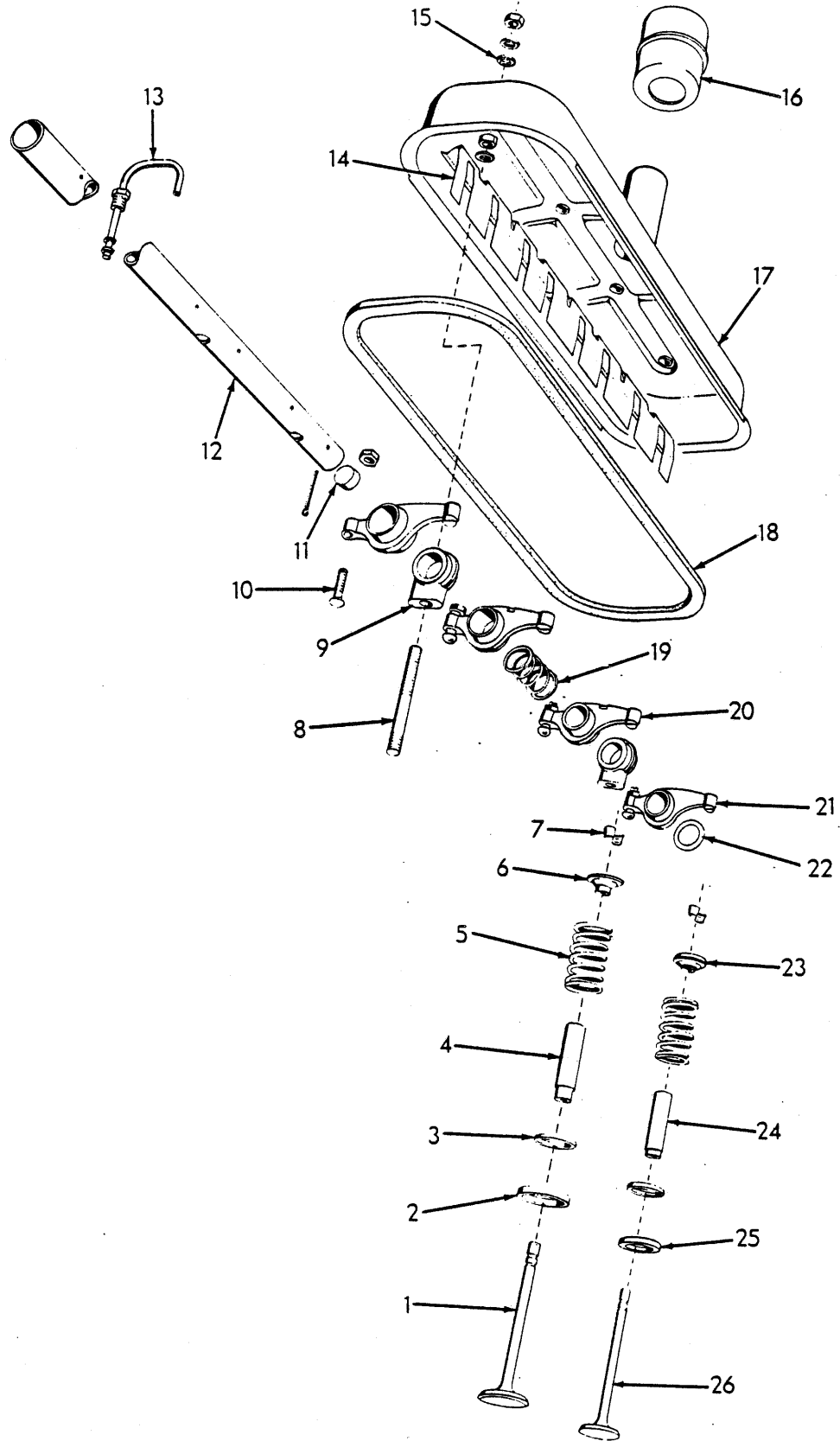
Effective on engine
#D-22649 and up

(Continued)

(Revised June 1977)

VALVE MECHANISM AND CAMSHAFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	74514031	6	BRACKET, rocker shaft
	70919227	4	CAPSCREW, 3/8"NC x 3-1/4"
	70900817	6	WASHER, plain, U.S. std., 3/8"
8	74508061	2	STUD
	70910123	2	NUT, 3/8"NF
9	74500176	6	CLIP, spring
10	74504052	12	ROD, push
11	74512982	12	LIFTER, valve
12	74516088	1	GEAR, camshaft
	70905845	1	KEY, #A woodruff, 1/4" x 7/8"
13	74502467	1	PLATE, thrust
	74502468	2	CAPSCREW
	70907863	2	LOCKWASHER, int-tooth, 7/16"
14	74516085	1	CAMSHAFT
15	74510833	1	LINE ASSY., oil, crankcase to cylinder head (Includes NUTS indented below)
	70913536	2	NUT, inverted flare, 1/4" tube
	70913039	2	ELBOW, inverted flare, 90°, 1/4" tube, 1/8"NPT male
16	74502408	1	LINE ASSY., oil overflow, rocker shaft (Includes NUT indented below)
	70913536	1	NUT, inverted flare, 1/4" tube
	70913040	1	ELBOW, inverted flare, 90°, 1/4" tube, 1/4"NPT male



VALVES AND ROCKER ARMS

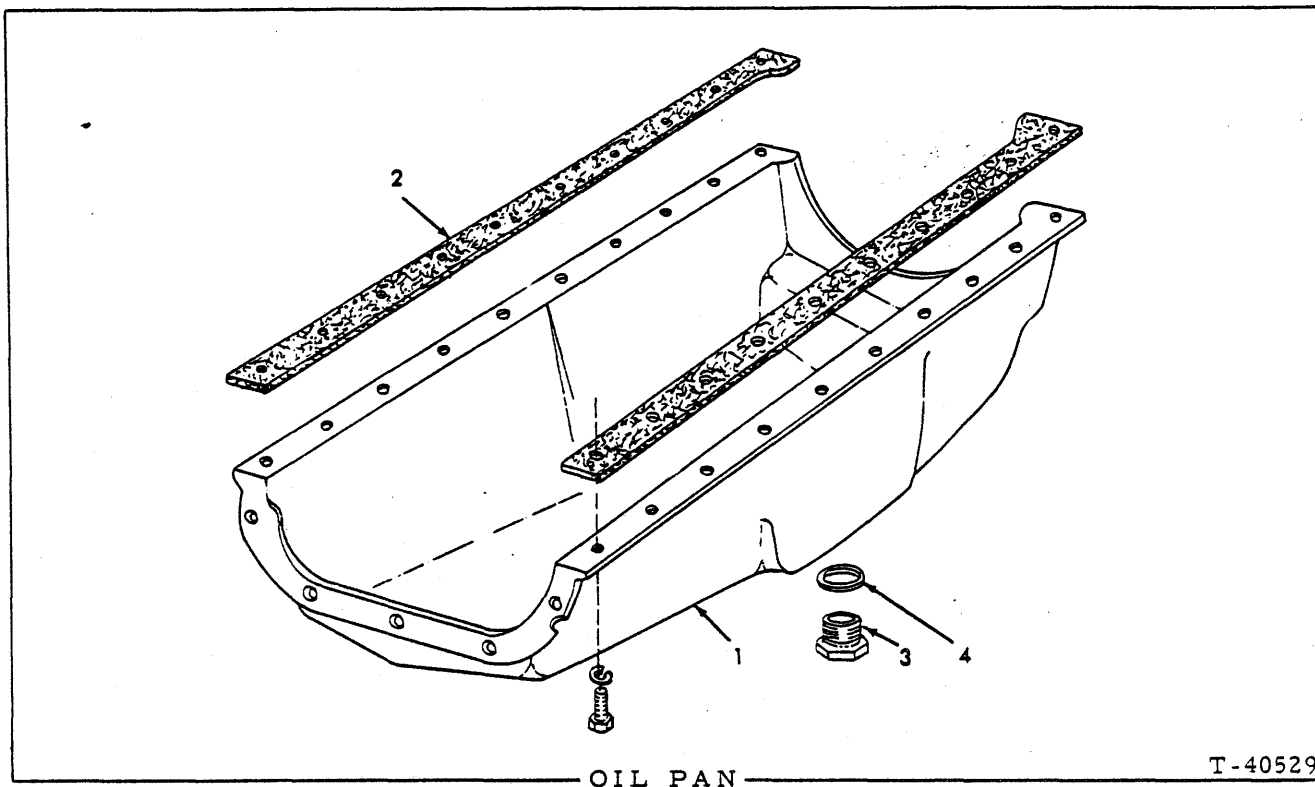
T-20567

VALVES AND ROCKER ARMS

USAGE: Gas - powered, effective serial No. 75Y00201

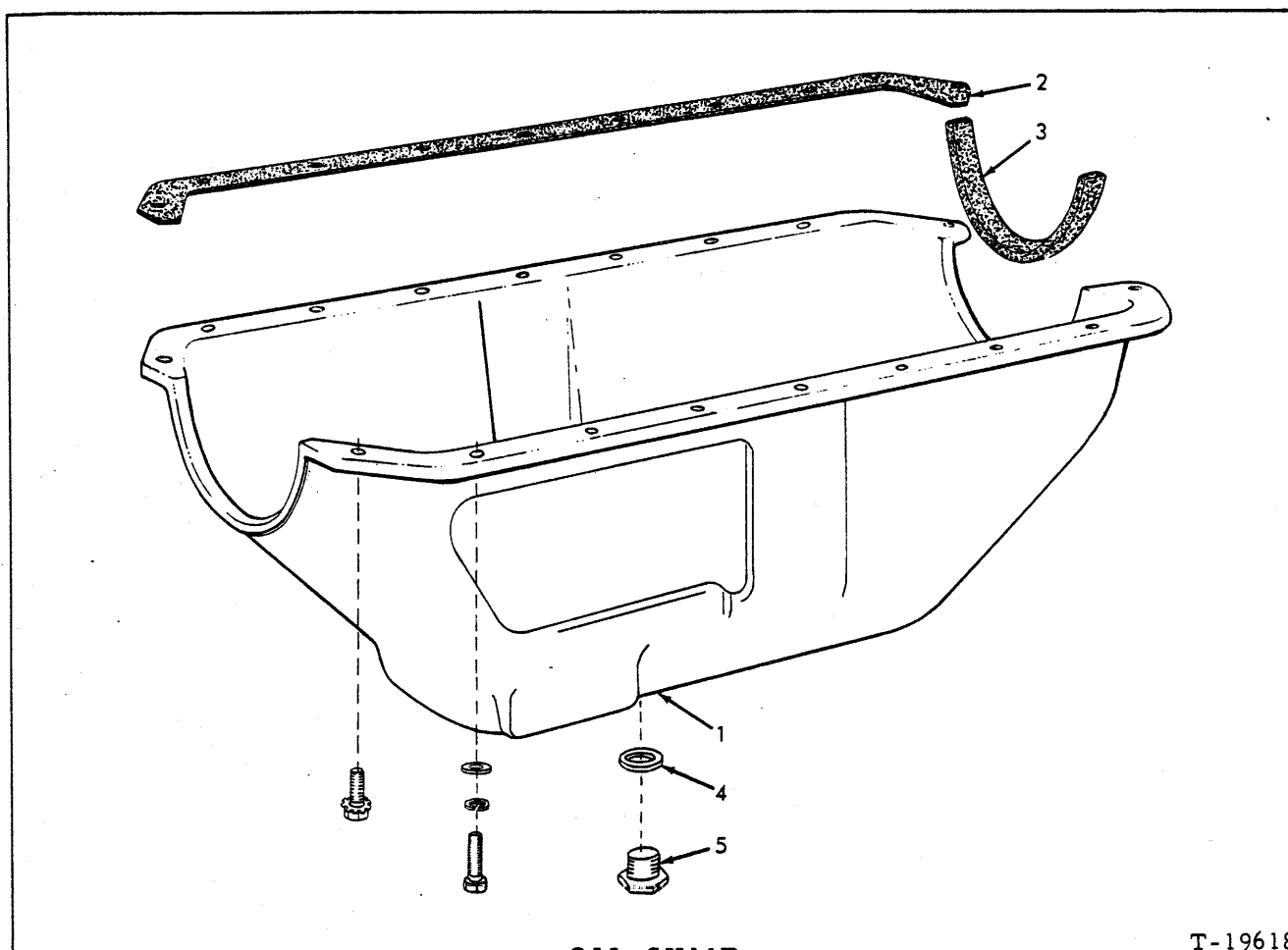
ITEM	PART NO.	QTY.	DESCRIPTION
1	70241535	4	VALVE, intake
2	70229904	4	SEAT, intake valve (For service only. Installation requires machining of counterbore in head)
3	70206876	8	SEAT, valve spring
4	70241536	4	GUIDE, intake valve
5	70206879	8	SPRING, valve
6	70209099	4	RETAINER, intake valve spring
7	70209103	16	LOCK, half, valve spring retainer
8	70224733	4	STUD, rocker shaft support and cover (3-7/8" long)
	70910123	8	NUT, 3/8"NF
	70911115	8	WASHER, plain, SAE std., 3/8"
9	70225019	4	SUPPORT, rocker shaft
10	70203132	8	SCREW, valve adjustment
	70912794	8	NUT, jam, 3/8"NF
11	70212004	2	STOPPER, rocker shaft (cork)
12	70225893	1	SHAFT ASSY., rocker (Includes item 11 and cotter pins indented below)
	70900807	2	PIN, cotter, 1/8" x 1-1/4"
13	70227636	1	TUBE ASSY., rocker oiling (Includes NUT indented below)
	70913526	1	NUT, inverted flare, 3/16" tube
14	70232926	1	BAFFLE, oil
15	70226477	4	□ PACKING, rocker cover stud
16	70203196	1	CAP, breather
17	70229408	1	COVER, rocker
18	70232449	1	□ GASKET, rocker cover
19	70203011	3	SPRING, rocker shaft
20	70209862	4	ARM ASSY., rocker, intake valve
21	70208049	4	ARM ASSY., rocker exhaust valve
22	70203009	2	WASHER, rocker shaft
23	70224926	4	ROTO-CAP, exhaust valve spring
24	70229911	4	GUIDE, exhaust valve
25	70241528	4	SEAT, exhaust valve (standard size)
	70241538	4	SEAT, exhaust valve (oversize)
26	70241527	4	VALVE, exhaust

Each includes item 10.
Bushing is not serviced separately.



USAGE: Diesel-powered, effective serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74512669	1	PAN, oil
	70915408	22	CAPSCREW, 3/8"NC x 3/4"
	70904206	22	LOCKWASHER, 3/8"
2	74501199	2	GASKET, oil pan
3	70226408	1	PLUG, oil drain
4	70226012	1	GASKET, oil drain plug



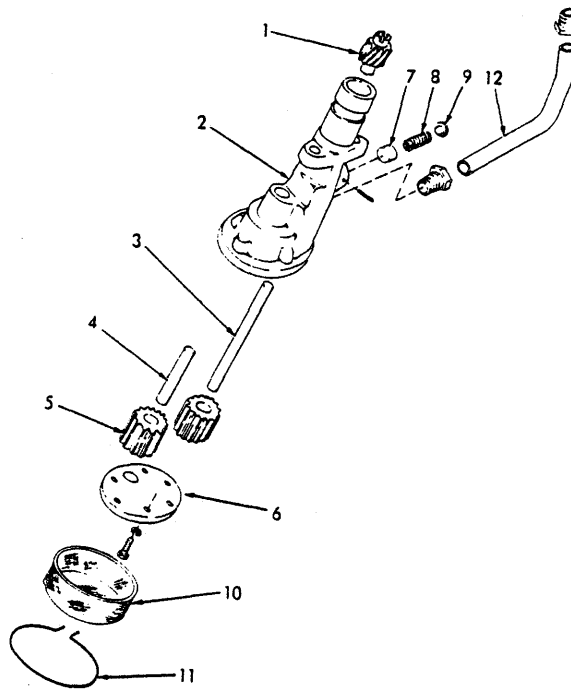
OIL SUMP

T-19618

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

1	70229334	1	SUMP, oil	
	70920997	16	CAPSCREW, 5/16"NC x 3/4" (Includes lockwasher)	
	70914392	2	CAPSCREW, 5/16"NC x 1"	} Also attach generator bracket
	70904205	2	LOCKWASHER, 5/16"	
	70901165	2	WASHER, plain, U.S. std., 5/16"	
2	70233602	2	□ GASKET, side	
3	70236660	2	□ GASKET, end	
4	70226012	1	GASKET, oil drain plug	
5	70226408	1	PLUG, oil drain	

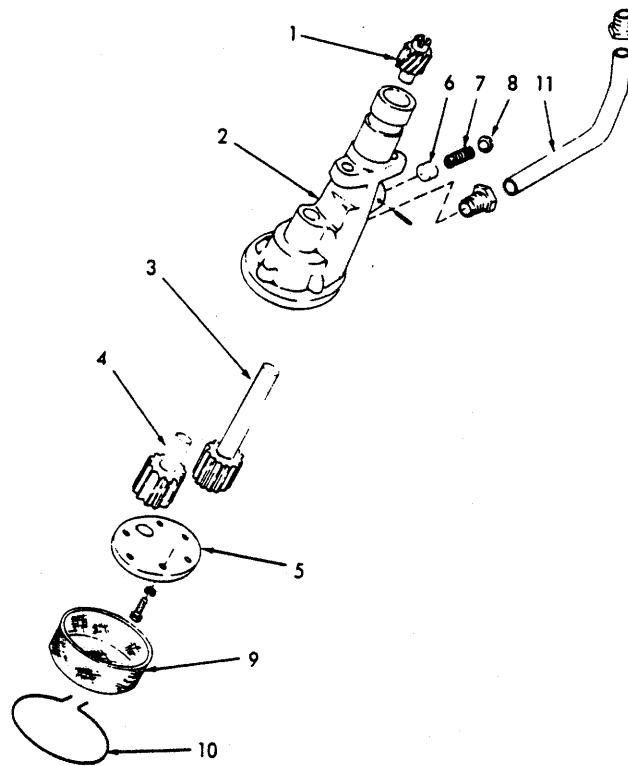


OIL PUMP

T-40535

USAGE: Diesel-powered, effective Serial No. 24A00201 thru 24A22727

ITEM	PART NO.	QTY.	DESCRIPTION
-	-----	1	PUMP ASSY. (Consists of items 1 thru 9)(Order 1 PUMP ASSY. 74517145)
	70914499	2	CAPSCREW, 3/8"NC x 1-5/8"
	70904206	2	LOCKWASHER, 3/8"
1	74506927	1	GEAR, drive
2	-----	1	BODY, pump (Order 1 PUMP ASSY. 74517145)
3	-----	1	SHAFT, drive
4	-----	1	SHAFT, idler gear
5	-----	2	GEAR, pumping
6	74506926	1	COVER, pump body
	70903625	6	CAPSCREW, 1/4"NC x 3/4"
	70904204	6	LOCKWASHER, 1/4"
7	74513162	1	PISTON, pressure relief valve
8	74513163	1	SPRING, pressure relief
9	74513164	1	RETAINER, pressure relief spring
	70915711	1	PIN, spring, 3/16" x 7/8"
10	74510693	1	SCREEN, oil
11	74371122	1	WIRE, retaining, oil strainer
12	74514991	1	TUBE, oil discharge
	70918872	2	NUT, hi-duty, 5/8" tube



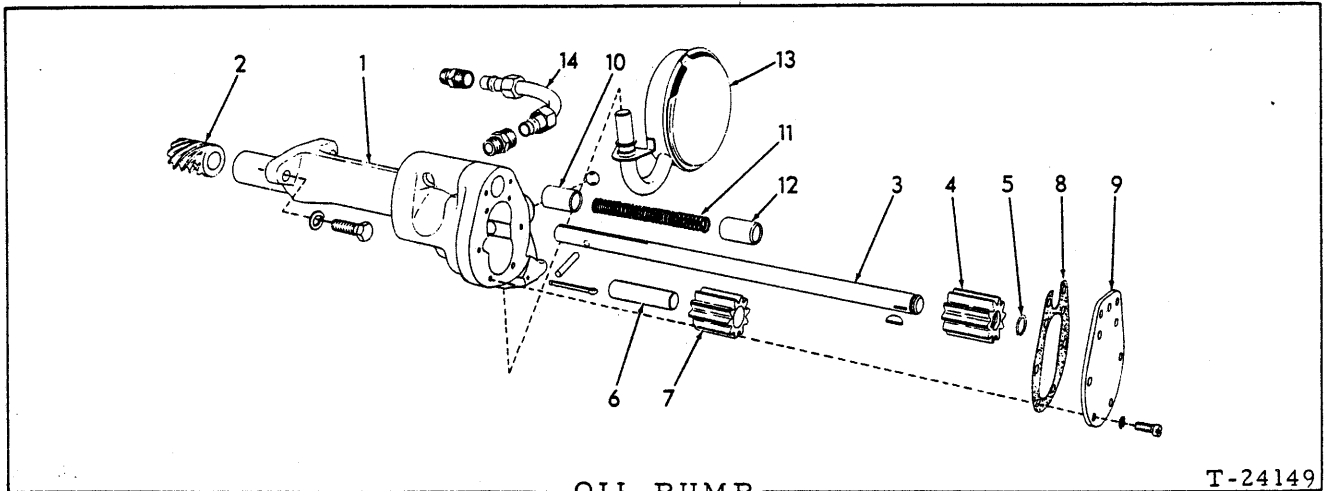
T-40535

OIL PUMP

USAGE: Diesel-powered, effective Serial No. 24A22728, 56Y02201 and up

ITEM	PART NO.	QTY.	DESCRIPTION
-	74517145	1	PUMP ASSY. (Consists of items 1 thru 8)
	70914499	2	CAPSCREW, 3/8"NC x 1-5/8"
	70904206	2	LOCKWASHER, 3/8"
1	74517130	1	GEAR, drive
2	74517137	1	BODY, pump
3	74517143	1	SHAFT AND GEAR, drive
4	74517144	1	SHAFT AND GEAR, idler
5	74506926	1	COVER, pump body
	70903625	6	CAPSCREW, 1/4"NC x 3/4"
	70904204	6	LOCKWASHER, 1/4"
6	74513162	1	PISTON, pressure relief valve
7	74513163	1	SPRING, pressure relief
8	74513164	1	RETAINER, pressure relief spring
	70915711	1	PIN, spring, 3/16" x 7/8"
9	74510693	1	SCREEN, oil
10	74371122	1	WIRE, retaining, oil strainer
11	74514991	1	TUBE, oil discharge
	70918872	2	NUT, hi-duty, 5/8" tube

(Revised June 1977)



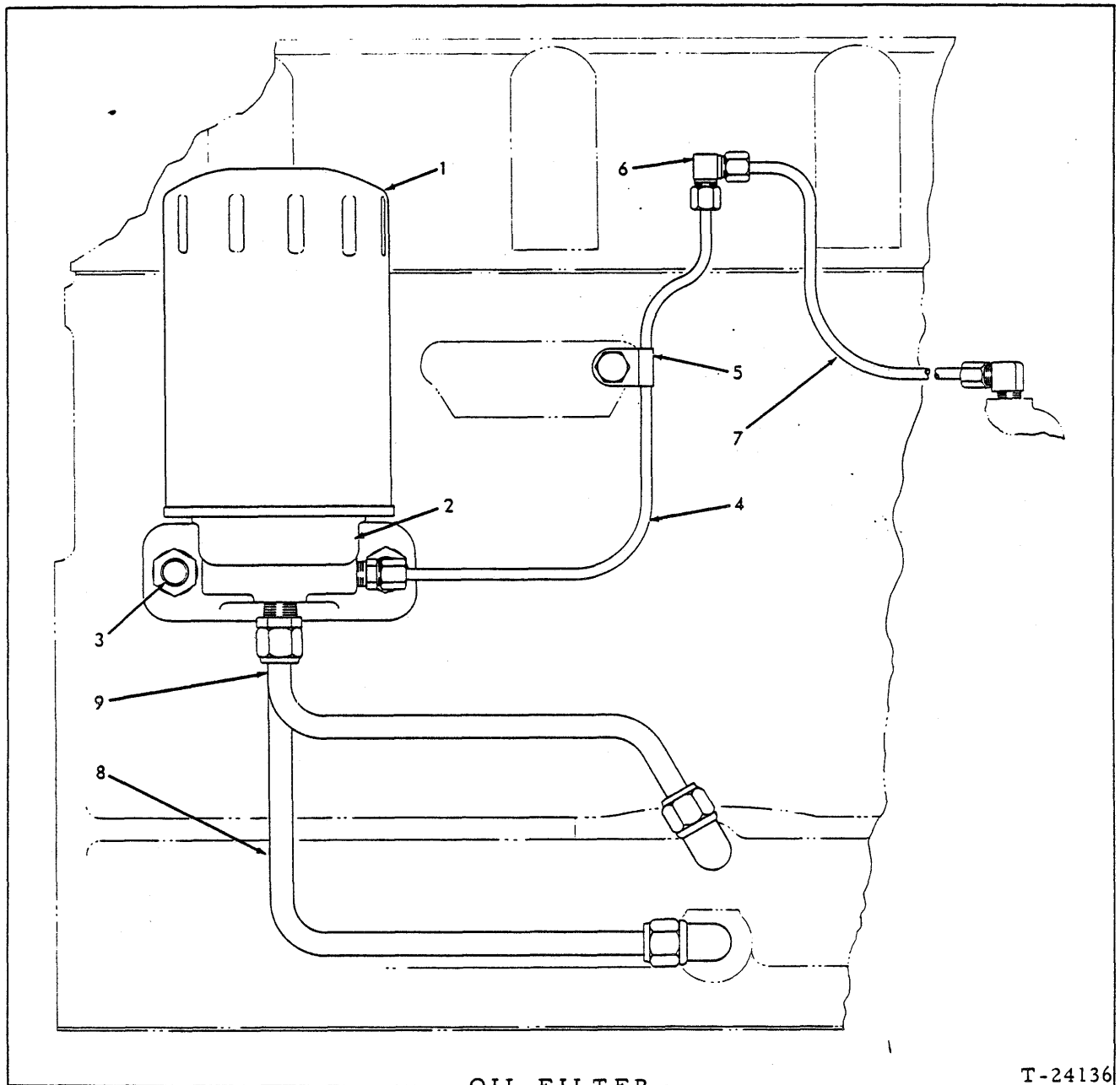
OIL PUMP

T-24149

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

-	70232554	1	PUMP ASSY. (Consists of items 1 and 3 thru 12)
	70903772	2	CAPSCREW, 5/16"NC x 1"
	70904205	2	LOCKWASHER, 5/16"
1	-----	1	BODY (Not serviced separately)
	70917579	1	BALL, steel, 7/16" diam.
2	70232436	1	GEAR, pump drive (9 spiral teeth)
	70921460	1	PIN, spring, 3/16" x 15/16"
3	70226389	1	SHAFT, drive
4	70212435	1	GEAR, drive shaft
	70910173	1	KEY, #2 woodruff, 3/32" x 1/2"
5	70226388	1	RING, snap, drive shaft
6	70212442	1	PIN, idler gear
7	70212436	1	GEAR, idler
8	70232434	1	GASKET, body cover
9	70232435	1	COVER, body
	70901781	8	SCREW, machine, fil-hd., #10-32NF x 1/2"
	70904203	8	LOCKWASHER, #10
10	70232431	1	PLUNGER, pressure relief valve
11	70232433	1	SPRING, relief valve
12	70232432	1	SLEEVE, spring retaining
13	70229541	1	SCREEN, oil
	70900807	1	PIN, cotter, 1/8" x 1-1/4"
14	70230806	1	TUBE, discharge
	70915263	2	CONNECTOR, compression, 7/16" tube, 1/4"NPT male (Includes NUT and SLEEVE listed below)
	70912844	2	NUT, compression fitting, 7/16" tube
	70911436	2	SLEEVE, compression fitting, 7/16" tube



OIL FILTER

T-24136

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

1	70237000	1	FILTER ASSY., oil (Includes instruction transfer)
2	70232426	1	BASE, oil filter
3	70229474	2	STUD, base to block
	70904207	2	LOCKWASHER, 7/16"
	70912201	2	NUT, 7/16"NC
4	70232424	1	TUBE, oil, filter to head
	70910126	1	CONNECTOR, compression, 3/16" tube, 1/8"NPT male (Includes NUT and SLEEVE listed below)
	70912064	1	NUT, compression fitting, 3/16" tube
	70912367	1	SLEEVE, compression fitting, 3/16" tube

(Continued)

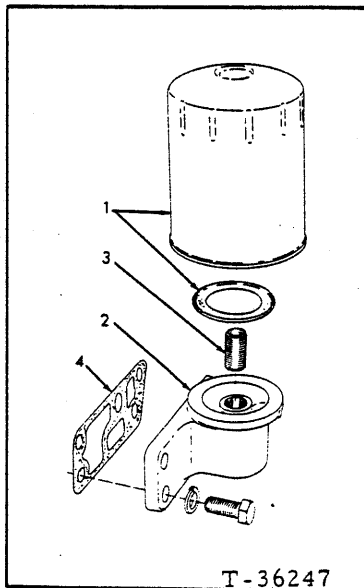
OIL FILTER (Continued)

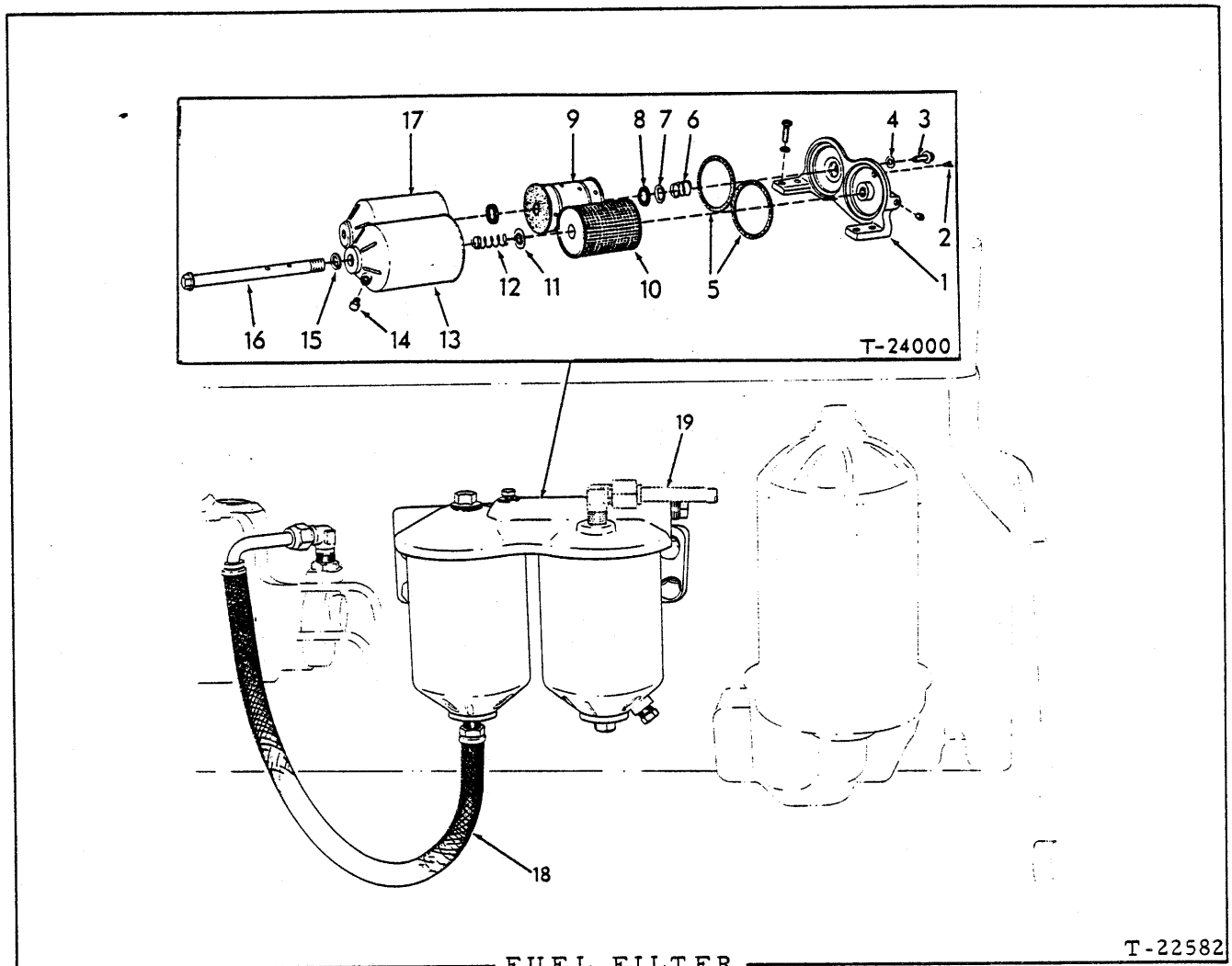
ITEM	PART NO.	QTY.	DESCRIPTION
5	70232422	1	CLIP, oil tube supporting
6	70231585	1	TEE, oil tube (Includes NUTS and SLEEVES indented below)
	70912064	2	NUT, compression fitting, 3/16" tube
	70912367	2	SLEEVE, compression fitting, 3/16" tube
7	70229402	1	TUBE, oil, cylinder head to governor
	70910129	1	ELBOW, compression, 3/16" tube, 1/8"NPT male (Includes NUT and SLEEVE listed below)
	70912064	1	NUT, compression fitting, 3/16" tube
	70912367	1	SLEEVE, compression fitting, 3/16" tube
8	70232425	1	TUBE, oil, filter supply
	70917948	1	CONNECTOR, compression, 3/8" tube, 1/4"NPT male (Includes NUT and SLEEVE listed below)
	70917817	1	ELBOW, compression, 3/8" tube, 1/4"NPT male (Includes NUT and SLEEVE listed below)
	70917810	2	NUT, compression fitting, 3/8" tube
	70917807	2	SLEEVE, compression fitting, 3/8" tube
9	70232423	1	TUBE, oil return, filter to block
	70917948	1	CONNECTOR, compression, 3/8" tube, 1/4"NPT male (Includes NUT and SLEEVE listed below)
	70917817	1	ELBOW, compression, 3/8" tube, 1/4"NPT male (Includes NUT and SLEEVE listed below)
	70917810	2	NUT, compression fitting, 3/8" tube
	70917807	2	SLEEVE, compression fitting, 3/8" tube

OIL FILTER

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74027979	1	FILTER ASSY. (Includes gasket)
2	74513273	1	BASE, filter
	70916311	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	LOCKWASHER, 1/2"
3	74513414	1	NIPPLE, filter base
4	74511964	1	GASKET, filter base





FUEL FILTER

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

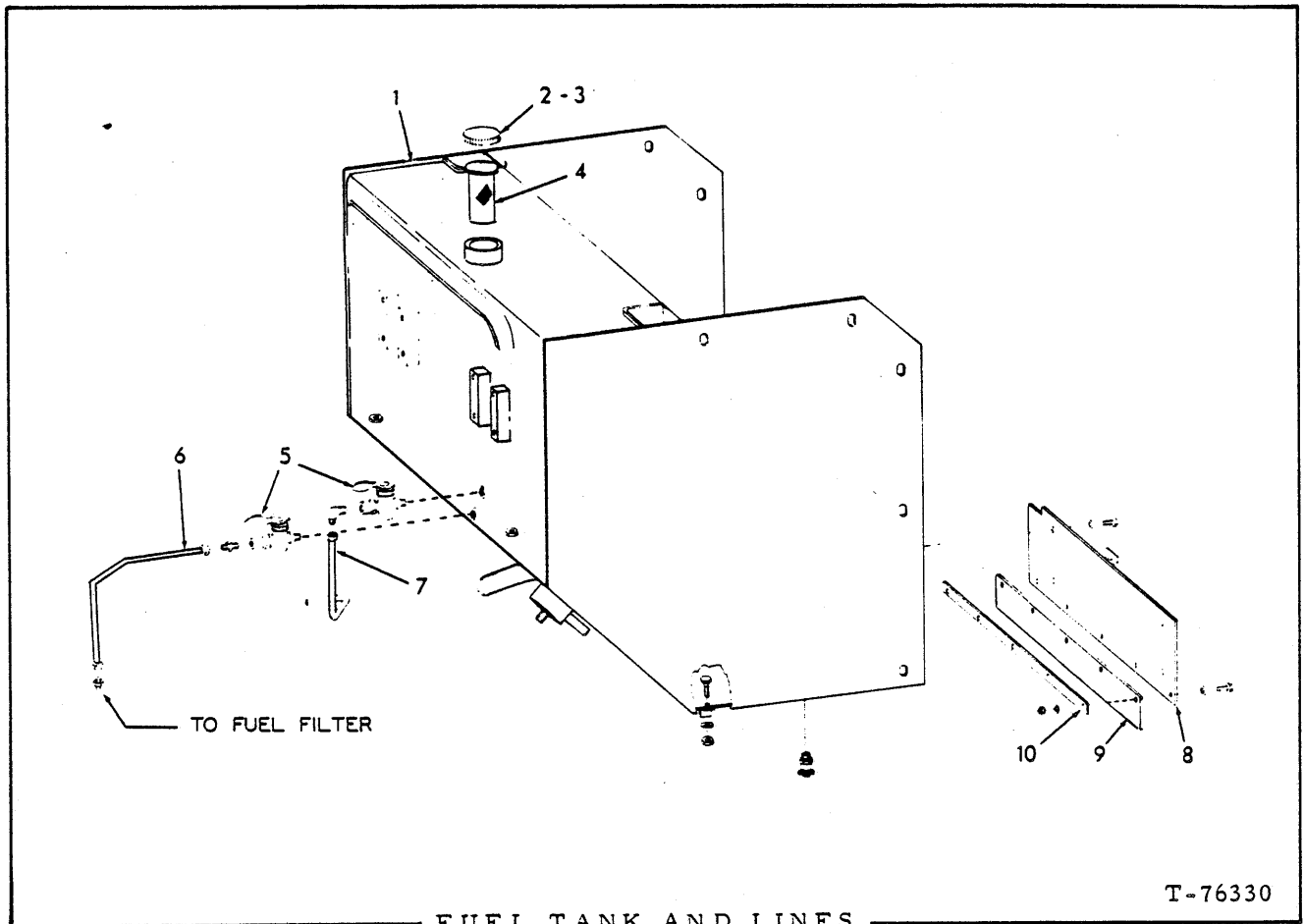
ITEM	PART NO.	QTY.	DESCRIPTION
1	74512787	1	HEAD, fuel filter
	70919840	1	PLUG, pipe. hex-hd., 1/4"NPT
	70916272	4	CAPSCREW, 3/8"NC x 1-1/4"
	70904206	4	LOCKWASHER, 3/8"
2	70919134	1	PLUG, venting (1/8"NPT)
3	74506163	1	CAPSCREW, body retaining, second stage filter
4	74506164	1	GASKET, body retaining capscREW
5	74048787	2	GASKET, filter body
6	74048793	1	SPRING, second stage filter
7	74048794	1	RETAINER, second stage filter spring

(Continued)

(Revised June 1977)

FUEL FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	74041209	2	GASKET, second stage filter cartridge
9	74048796	1	CARTRIDGE, second stage filter (Includes items 5 and 8)
10	74048789	1	CARTRIDGE, first stage filter (Includes item 5)
11	74506918	1	WASHER, cartridge spring, first stage filter
12	74048790	1	SPRING, first stage filter cartridge
13	74048788	1	BODY, first stage filter
14	70917426	1	PLUG, drain, first stage filter
15	74048791	1	GASKET, retaining bolt
16	74048792	1	BOLT, retaining, first stage filter body
17	74048797	1	BODY, second stage filter
18	74511514	1	HOSE ASSY., filter to pump
	70919135	1	ELBOW, flare type, 90°, 3/8" tube, 1/4"NPT male
19	-----	1	TUBE ASSY., tank to filter (See FUEL TANK AND LINES)



USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

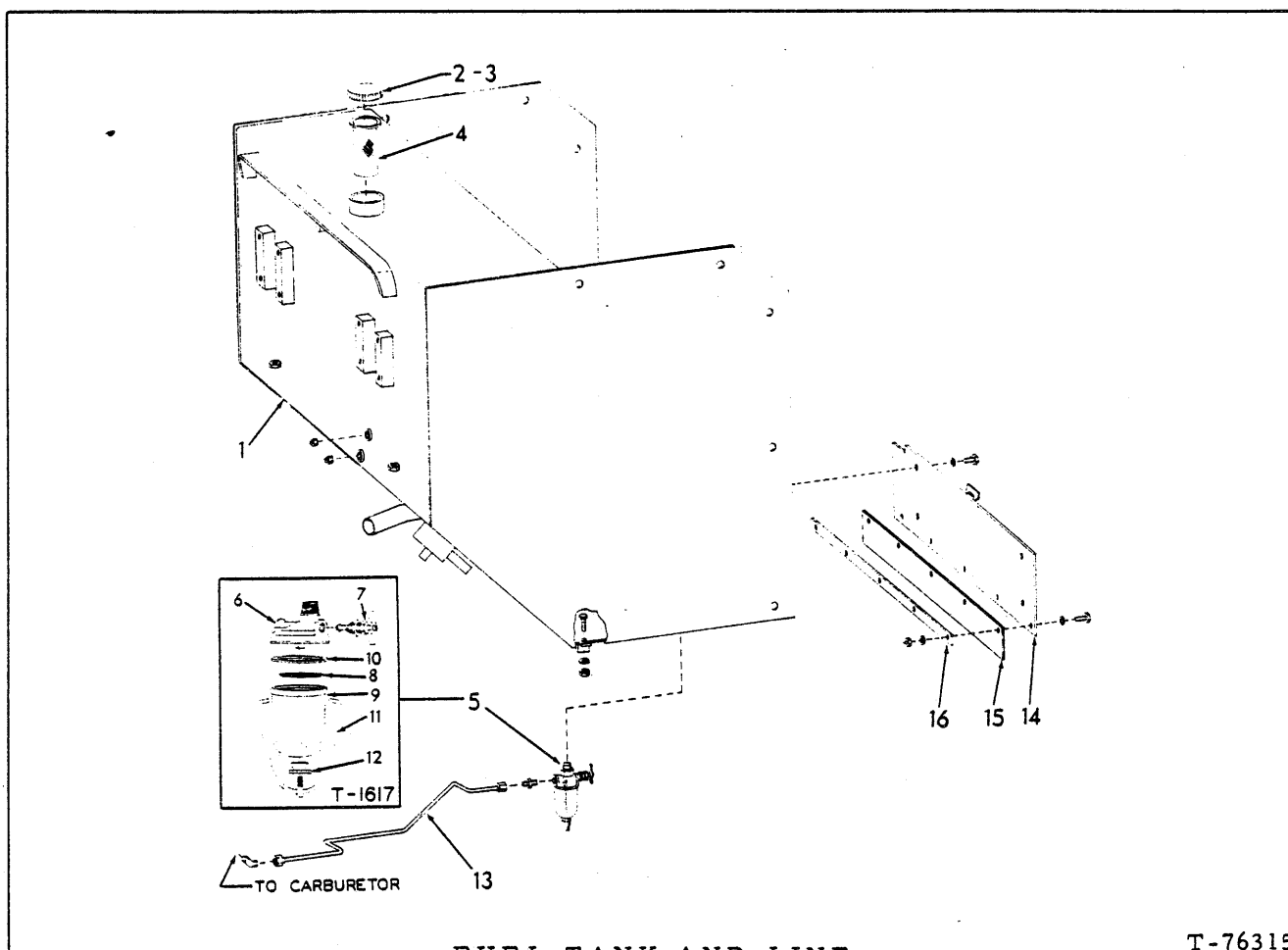
ITEM	PART NO.	QTY.	DESCRIPTION
1	70693237	1	SEAT AND TANK (Also see Hydraulic tank)
	70920584	4	CAPSCREW, 1/2"NC x 1-5/8"
	70928460	4	WASHER, plain
	70928188	8	WASHER, plain (Use as required)
	70911028	4	NUT, 1/2"NC
	70918769	1	COCK, drain, 3/8"NPT
2	70206622	1	CAP ASSY., fuel tank (Includes item 3)
3	70208065	1	GASKET, cap
4	70651081	1	STRAINER, fuel
5	70099433	2	COCK, fuel shut-off (1/4"NPT male and female)
6	70674308	1	TUBE ASSY., fuel supply (Includes nuts and sleeves)
	70919062	2	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
7	70674307	1	TUBE ASSY., fuel return (Includes nut and sleeve)
	70919546	1	ELBOW, flare type, 1/4" tube, 1/4"NPT male
8	70675607	1	COVER, front closure
	70922925	4	CAPSCREW, 5/16"NC x 3/4"
	70910335	4	WASHER, plain

(Continued)

(Revised June 1977)

FUEL TANK AND LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
9	77109555	1	STRIP, sealing, front closure (rubber)
	70921566	5	CAPSCREW, 5/16"NC x 1"
	70910335	10	WASHER, plain SAE std., 5/16"
	70911025	5	NUT, 5/16"NC
10	77109554	1	STRIP, re-enforcing, sealing strip (steel)



FUEL TANK AND LINE

T-76315

USAGE: Gas - powered, effective serial No. 75Y00201

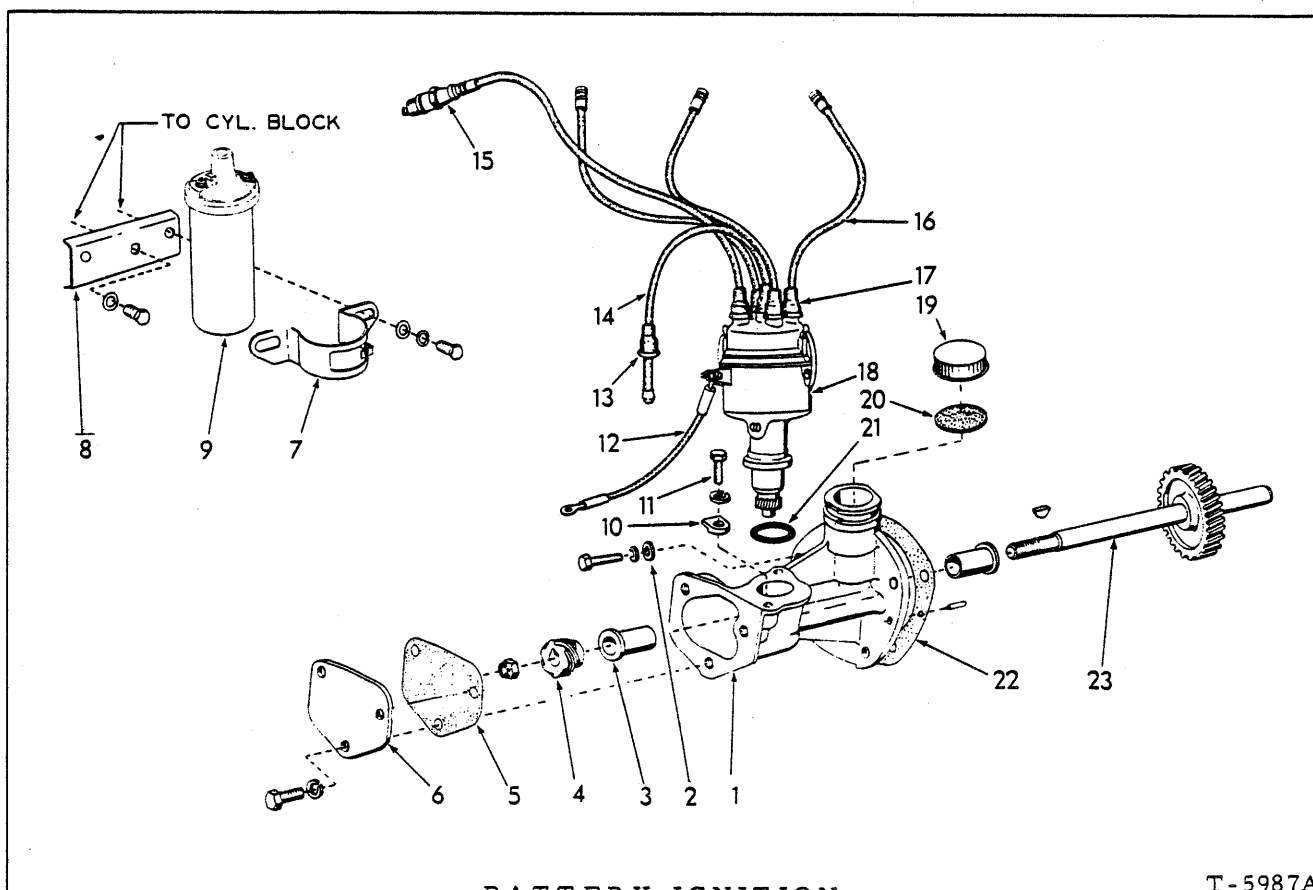
ITEM PART NO. QTY. DESCRIPTION

1	70674950	1	SEAT AND TANK
	70920582	4	CAPSCREW, 1/2"NC x 1-1/4"
	70910244	6	WASHER, plain, SAE std., 1/2"
	70911028	4	NUT, 1/2"NC
	70901652	2	PLUG, pipe, 1/8"NPT
2	70206622	1	CAP ASSY., fuel tank (Includes item 3)
3	70208065	1	GASKET, cap
4	70651081	1	STRAINER, fuel
5	70237946	1	FILTER ASSY., fuel (Includes items 6 thru 12)
6	-----	1	HEAD (Not serviced separately)
7	70223255	1	VALVE ASSY., shut-off (Serviced only as a unit)
8	70208325	1	SCREEN, sediment
9	70237947	1	BOWL, glass (standard)
	70217264	1	BOWL, metal (special)

(Continued)

FUEL TANK AND LINE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
10	70208137	1	GASKET, sediment bowl
11	70223248	1	BAIL ASSY. (Includes item 12)
12	70044925	1	CUP ASSY. (Includes nut)
13	70673634	1	TUBE ASSY., filter to carburetor (Includes nuts)
	70919767	1	ELBOW, flare type, 5/16" tube, 1/8"NPT
	70919766	1	CONNECTOR, flare type, 5/16" tube, 1/8"NPT male
14	70675607	1	COVER, front closure
	70922925	4	CAPSCREW, 5/16"NC x 3/4"
	70910335	4	WASHER, plain, SAE std., 5/16 "
15	77109555	1	STRIP, sealing, front closure (rubber)
	70921566	5	CAPSCREW, 5/16"NC x 1"
	70910335	10	WASHER, plain, SAE std., 5/16"
	70911025	5	NUT, 5/16"NC
16	77109554	1	STRIP, re-enforcing, sealing strip (steel)



BATTERY IGNITION

T-5987A

USAGE: Gas - powered, effective serial No. 75Y00201

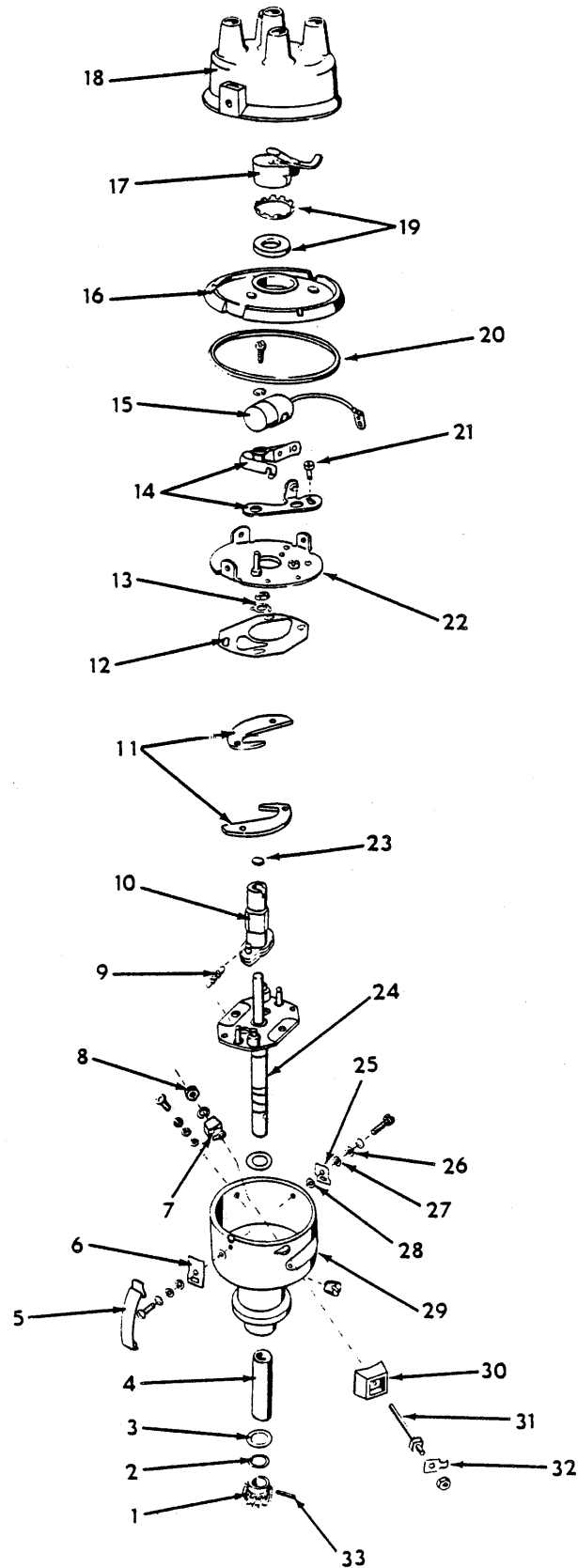
ITEM PART NO. QTY. DESCRIPTION

1	70226100	1	HOUSING ASSY., distributor drive (Includes item 3)
	70910146	1	PIN, straight, round end, 1/4" x 3/4"
	70903630	1	CAPSCREW, 3/8"NC x 1"
	70904206	1	LOCKWASHER, 3/8"
2	70225771	1	WASHER, plain
3	70226236	2	BUSHING, drive housing
4	70225078	1	GEAR, distributor drive
	70910173	1	KEY, #2 woodruff, 3/32" x 1/2"
	70915652	1	NUT, self-locking, 7/16"NF
5	70226117	1	□ GASKET, distributor housing cover
6	70226116	1	COVER, distributor housing
	70903626	3	CAPSCREW, 5/16"NC x 3/4"
	70904205	3	LOCKWASHER, 5/16"
7	70225606	1	CLAMP ASSY., ignition coil (Includes screw and nut.
			Serviced only as a unit)
	70905661	2	CAPSCREW, 5/16"NC x 5/8"
	70904205	2	LOCKWASHER, 5/16"
	70910335	2	WASHER, plain, SAE std., 5/16"
8	70229517	1	BRACKET, coil mounting
	70903629	1	CAPSCREW, 3/8"NC x 3/4"
	70911115	1	WASHER, plain, SAE std., 3/8"

(Continued)

BATTERY IGNITION (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
9	74515665	1	COIL ASSY., ignition (Includes item 7)
10	70225344	2	CLAMP, distributor retaining
11	70226683	2	CAPSCREW, retaining clamp (Includes lockwasher)
12	70228131	1	CABLE, primary, distributor to coil
13	70225073	1	NIPPLE, coil cable
14	-----	1	CABLE, secondary, coil to distributor (Order item 24)
15	{ 70232560	4	PLUG, spark (3/4" reach)(A-C)
	{ 70232977	4	PLUG, spark (3/4" reach)(Champion)
16	{ -----	2	CABLE, spark plug (9" long)
	{ -----	1	CABLE, spark plug (13" long)
	{ -----	1	CABLE, spark plug (17-1/2" long)
			} Order item 24
17	70225484	5	NIPPLE, distributor cable
18	-----	1	DISTRIBUTOR ASSY. (See page 51)
19	70226376	1	CAP, oil filler (Includes item 20)
20	70226374	1	GASKET, oil filler cap
21	70233211	1	□GASKET, distributor base
22	70233217	1	□GASKET, distributor drive housing
23	-----	1	SHAFT ASSY., drive (See GOVERNOR)
24	70229867	1	CABLE SET (Includes items 13, 14, 16 and 17)(Not illustrated)



DISTRIBUTOR

T-3489

DISTRIBUTOR

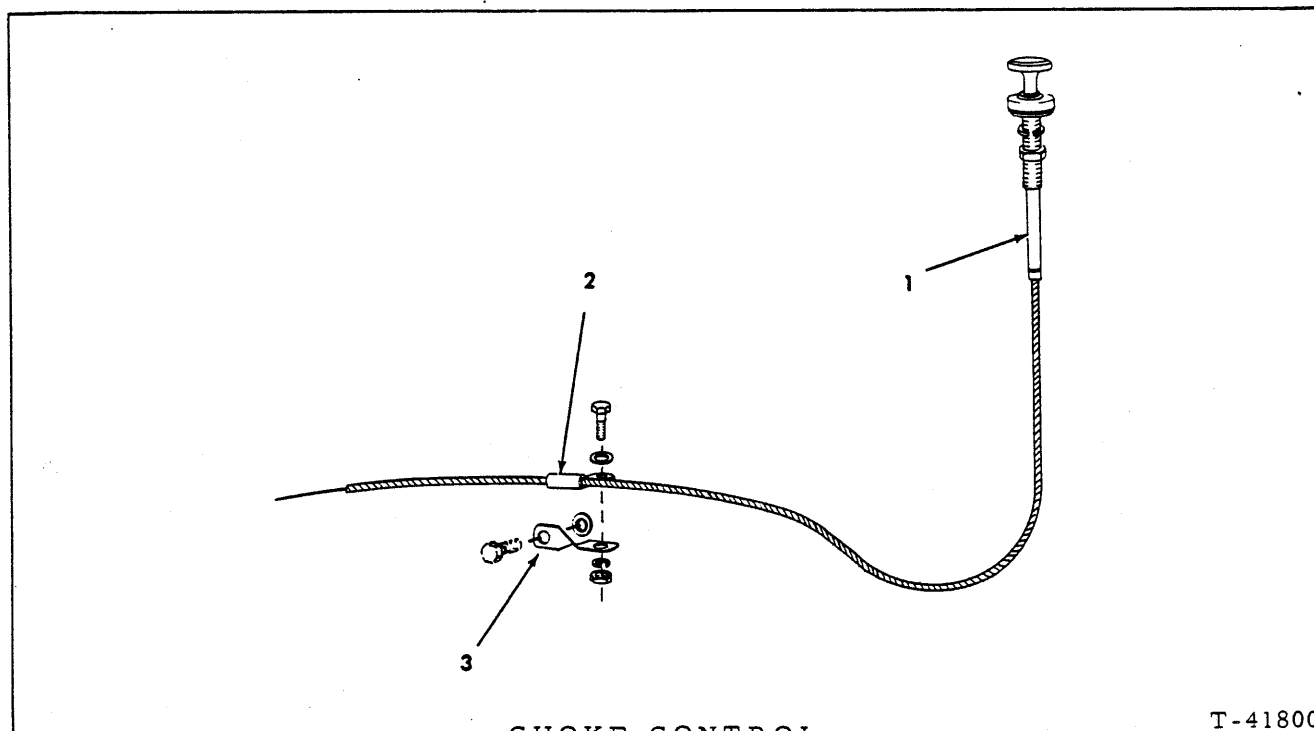
USAGE: Gas - powered, effective serial No. 75Y00201. See page 48

ITEM	PART NO.	QTY.	DESCRIPTION
-	70231769	1	DISTRIBUTOR ASSY. (Includes items 1 thru 33)
1	70226019	1	GEAR (12 teeth)
2	70225797	1	SHIM, driven gear (.005" thick. Use as req'd.)
3	70250977	2	WASHER, thrust
4	70225773	1	BUSHING
5	70225774	2	CLIP, cap retaining
6	70225775	1	SUPPORT, cap retaining clip, long
7	70225793	1	INSULATOR, primary terminal stud, inside
8	70917385	1	NUT, primary terminal stud, inside
	70906964	1	LOCKWASHER, #8
9	70232829	2	SPRING, advance weight
10	70232827	1	CAM ASSY., circuit breaker (Serviced only as a unit)
11	70232828	2	WEIGHT, timing advance
12	70225789	1	PLATE, weight retaining
	70910251	2	NUT, #10-32NF
13	70922711	2	WASHER, weight retaining plate nut
14	70225785	1	POINT SET, breaker (Serviced only as a unit)
15	70225739	1	CONDENSER
	70915966	1	SCREW, machine, #8NC x 3/16"
	70906964	1	LOCKWASHER, #8
16	70225734	1	COVER ASSY., circuit breaker (Includes items 19 and 20)
17	70225736	1	ROTOR
18	70225733	1	CAP ASSY. (Includes center contact button)
19	70225781	1	SEAL KIT, camshaft (1 seal and 1 retainer)
20	70225735	1	GASKET, distributor cap
21	74050086	1	SCREW, distributor point locking
22	70225778	1	PLATE ASSY., breaker point (Serviced only as a unit)
	70912731	1	SCREW, machine, #8NC x 5/16"
	70900553	2	SCREW, machine, #8NC x 1/2"
	70912739	3	LOCKWASHER, #8
23	70225784	1	WICK, camshaft oiling

(Continued)

DISTRIBUTOR (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	70232826	1	SHAFT ASSY. (Serviced only as a unit)
25	70225776	1	SUPPORT, cap retaining clip, short
26	70225780	3	RETAINER, breaker point plate screw gasket
27	70225779	3	GASKET, breaker point plate screw
28	70225777	2	GASKET, cap retaining clip support
29	70225772	1	HOUSING ASSY. (Includes item 4 and PLUG indented below)
30	70225794	1	INSULATOR, primary terminal stud, outside
31	70225791	1	STUD, primary terminal
	70907154	1	NUT, #8NC
32	70225795	1	LOCK, primary terminal outside nut
33	70225798	1	PIN, driven gear



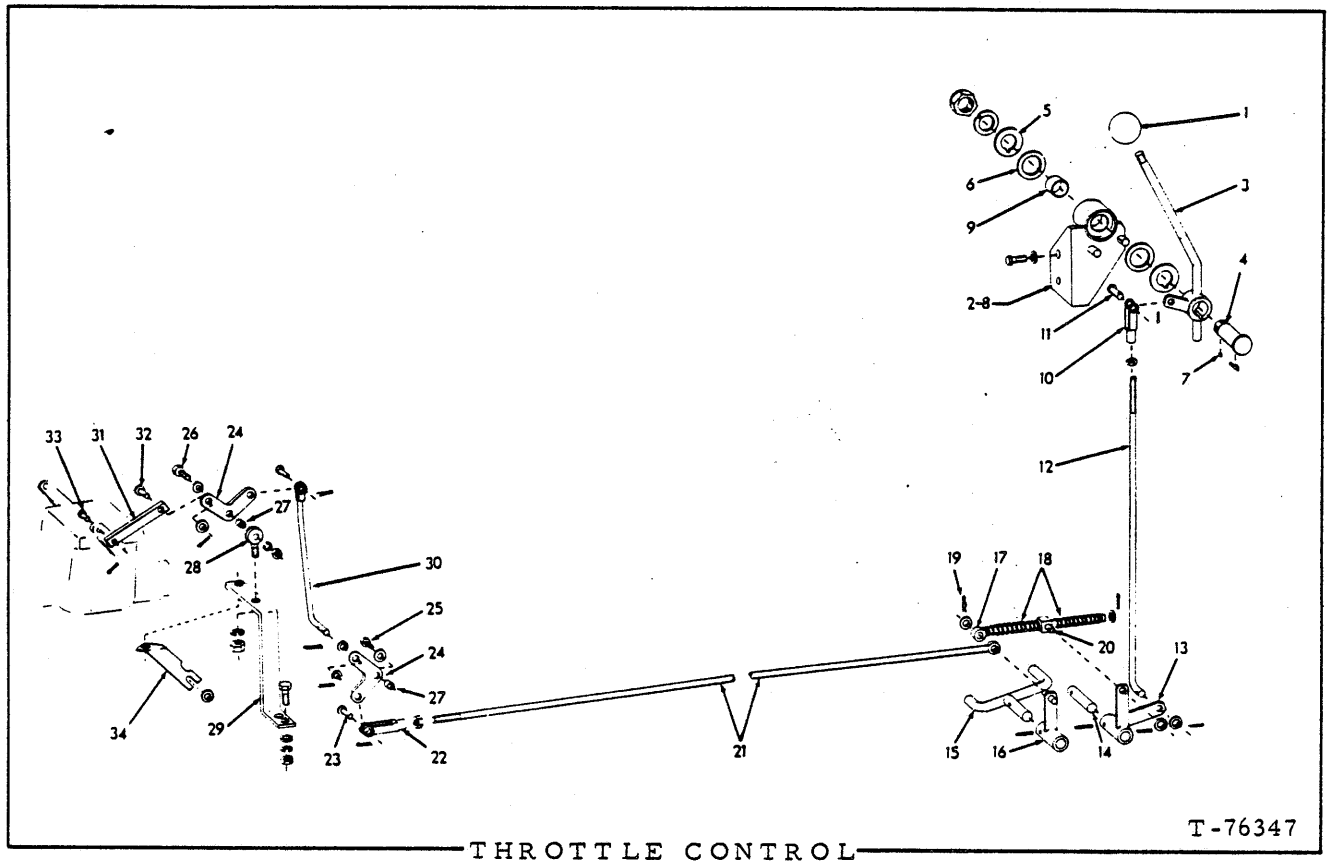
T-41800

CHOKE CONTROL

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

1	70641329	1	CONTROL, flexible cable
	70911041	1	NUT, 3/8"NF
	70910287	1	LOCKWASHER, 3/8"
2	70200479	1	CLIP, cable supporting
	70922262	1	CAPSCREW, 3/8"NC x 3/4"
	70911115	1	WASHER, plain
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
3	70083530	1	BRACKET, cable supporting
	70912476	1	WASHER, spacing



THROTTLE CONTROL

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

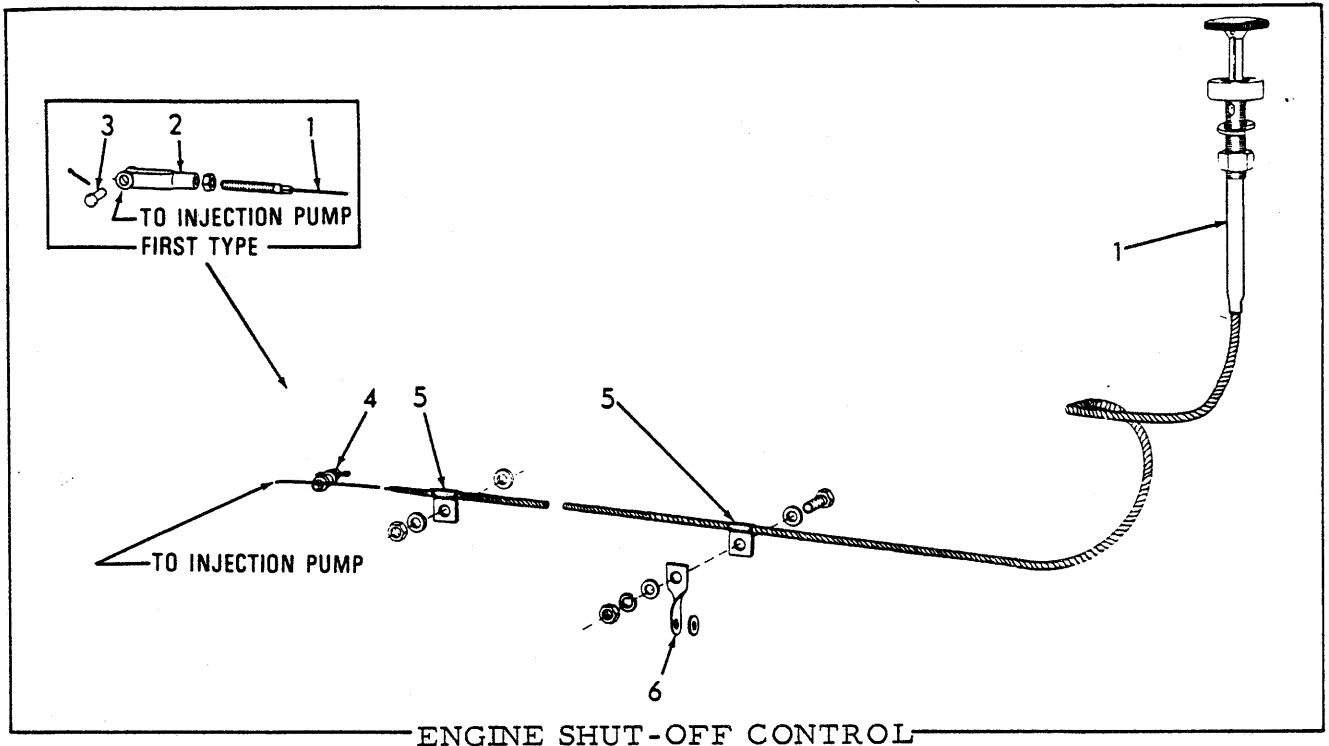
ITEM	PART NO.	QTY.	DESCRIPTION
1	70091862	1	KNOB, operating lever
2	70673708	1	FRICTION ASSY. (Includes items 3 thru 9)
	70922763	2	CAPSCREW, 3/8"NC x 1"
	70910287	2	LOCKWASHER, 3/8"
3	70673582	1	LEVER, operating
	70923280	1	KEY, hi-pro 3/16" x 3/4"
4	70655535	1	SHAFT, operating lever
	70904369	1	LOCKWASHER, 3/4"
	70914452	1	NUT, elastic stop, 3/4"NF
5	70632710	2	WASHER, friction
6	70632747	2	DISC, friction
7	70632716	1	KEY, friction washer
8	-----	1	HOUSING ASSY., friction (Order item 2)
9	70632752	1	BUSHING, friction housing
10	70628736	1	YOKE, upper rod
11	70078810	1	PIN, yoke, control rod
	70900942	1	PIN, cotter, 3/32" x 5/8"
12	77108940	1	ROD, vertical
	70910123	1	NUT, 3/8"NF
	70911115	1	WASHER, plain, SAE std., 3/8"
	70900805	1	PIN, cotter, 1/8" x 3/4"
13	70673408	1	BELLCRANK, vertical rod
	70916937	1	PIN, spring, 1/4" x 1-1/4"
14	70673472	1	SHAFT, bellcrank
15	70673473	1	PEDAL, accelerator
16	70673407	1	LEVER, pedal
	70916937	1	PIN, spring, 1/4" x 1-1/4"
17	70673527	1	ROD, horizontal
18	70630745	2	SPRING, horizontal rod
	70911115	2	WASHER, plain, SAE std., 3/8"
	70900805	1	PIN, cotter, 1/8" x 3/4"
19	70918195	1	PIN, retaining, horizontal rod
20	70673583	1	EYE, swivel, horizontal rod
	70911115	1	WASHER, plain, SAE std., 3/8"
	70900942	1	PIN, cotter, 3/32" x 5/8"
21	70674078	1	ROD, horizontal, rear
	70911048	1	NUT, jam, 3/8"NF

(Continued)

(Revised June 1977)

THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
22	70621415	1	YOKE, horizontal rod, rear
23	70640190	1	PIN, yoke
	70900801	1	PIN, cotter, 3/32" x 3/4"
24	70674080	2	BELLCRANK, front control rod
25	70927338	1	CAPSCREW, 1/4"NC x 7/8"
26	70921383	1	CAPSCREW, 1/4"NC x 1-1/2"
	70911114	2	WASHER, plain, SAE std., 1/4"
	70910285	1	LOCKWASHER, 1/4"
	70911024	1	NUT, 1/4"NC
27	70681820	2	SPACER
28	70674079	1	EYE, pivot
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
29	70673763	1	BRACKET, supporting
	70922763	2	CAPSCREW, 3/8"NC x 1"
	70911115	2	WASHER, plain, SAE std., 3/8"
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
30	70674076	1	ROD, vertical, rear
	70917645	1	PIN, yoke, upper
	70910335	2	WASHER, plain, SAE std., 5/16"
	70900801	3	PIN, cotter, 3/32" x 3/4"
31	70673838	1	LINK
32	70917645	1	PIN, link (large)
	70910335	1	WASHER, plain, SAE std., 5/16"
	70900801	1	PIN, cotter, 3/32" x 3/4"
33	70917644	1	PIN, link (small)
	70900970	1	PIN, cotter, 1/16" x 1/2"
34	70684043	1	BRACKET, stabilizing
	70929156	1	WASHER, plain

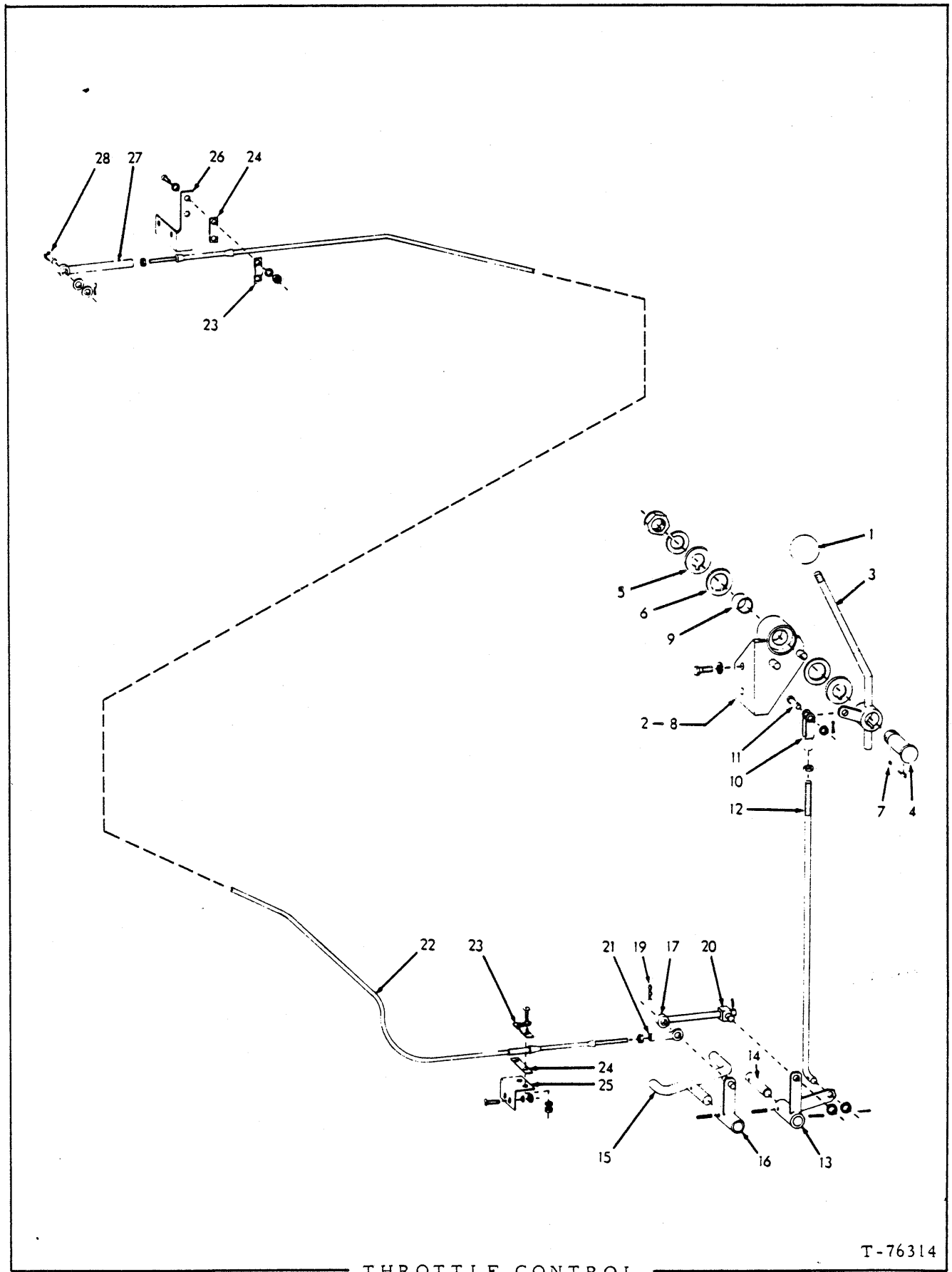


USAGE: Diesel powered

* Graders prior to serial No. 24A01500

** Graders serial No. 24A01500, 56Y02201 and up

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	-----	1 -	CABLE ASSY. (Order CABLE 70694384, SWIVEL ASSY. 70694383, 2 CLIP 70640677, 2 WASHER 70928190 and 1 NUT 70910880)
	70694384	- 1	CABLE, control
	70911040	1 -	NUT, 1/4"NF (cable end)
	70911041	1 1	NUT, 3/8"NF
	70910287	1 1	LOCKWASHER, 3/8" } Control mounting
2	70628737	1 -	YOKE, push-pull control
3	70628738	1 -	PIN
	70900970	1 -	PIN, cotter, 1/16" x 1/2"
4	70694383	- 1	SWIVEL ASSY. (Serviced only as a unit)
5	70200479	2 -	CLIP
	70640677	- 2	CLIP
	70922262	2 1	CAPSCREW, 3/8"NC x 5/8"
	70911115	3 2	WASHER
	70910287	2 1	LOCKWASHER, 3/8"
	70900367	2 1	NUT, 3/8"NC
	70928190	- 2	WASHER
	70910880	- 1	NUT, 1/4"NC
6	70083530	1 1	BRACKET
	70912476	1 1	WASHER



THROTTLE CONTROL

T-76314

THROTTLE CONTROL

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM	PART NO.	QTY.	DESCRIPTION
1	70091862	1	KNOB, operating lever
2	70673708	1	FRICTION ASSY. (Includes items 3 thru 9)
	70922763	2	CAPSCREW, 3/8"NC x 1"
	70910287	2	LOCKWASHER, 3/8"
3	70673582	1	LEVER, operating
	70923280	1	KEY, hi-pro, 3/16" x 3/4"
4	70655535	1	SHAFT, operating lever
	70904369	1	LOCKWASHER, 3/4"
	70914452	1	NUT, elastic stop, 3/4"NF
5	70632710	2	WASHER, friction
6	70632747	2	DISC, friction
7	70632716	1	KEY, friction washer
8	-----	1	HOUSING ASSY., friction (Order item 2)
9	70632752	1	BUSHING, friction housing
10	70628736	1	YOKE, upper rod
11	70078810	1	PIN, yoke, control rod
	70900942	1	PIN, cotter, 3/32" x 5/8"
12	77108940	1	ROD, vertical
	70910123	1	NUT, 3/8"NF
	70911115	1	WASHER, plain, SAE std., 3/8"
	70900805	1	PIN, cotter, 1/8" x 3/4"
13	70673408	1	BELLCRANK, vertical rod
	70916937	1	PIN, spring, 1/4" x 1-1/4"
14	70673472	1	SHAFT, bellcrank
15	70673473	1	PEDAL, accelerator
16	70673407	1	LEVER, pedal
	70916937	1	PIN, spring, 1/4" x 1-1/4"
17	70680606	1	ROD, horizontal
	70916018	1	PIN, spring, 3/32" x 5/8"
19	70918195	1	PIN, retaining, horizontal rod
20	70673583	1	EYE, swivel, horizontal rod
	70911115	1	WASHER, plain, SAE std., 3/8"
	70900942	1	PIN, cotter, 3/32" x 5/8"
21	70677178	1	END, rod, control cable (pedal end)
22	70677180	1	CABLE ASSY., control (Includes nuts)

(Continued)

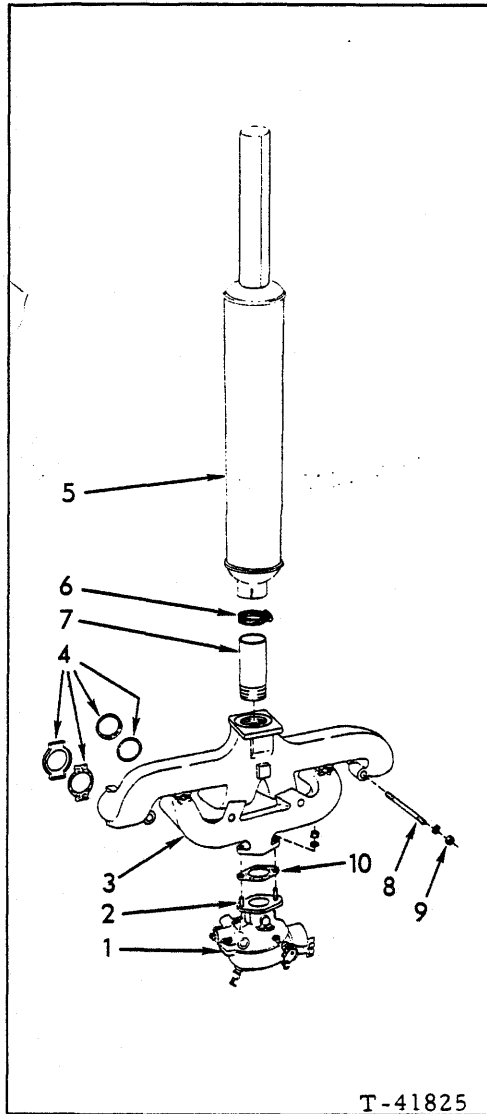
THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
23	70243388	2	CLAMP, cable (top)
	70901173	4	SCREW, machine, #10-NC x 5/8"
	70910243	4	WASHER, plain
	70910284	4	LOCKWASHER, #10
	70901310	4	NUT, #10-NC
24	70243387	2	CLAMP, cable (bottom)
25	70677177	1	ANGLE, cable supporting
	70901173	2	SCREW, machine, #10-NC x 5/8"
	70910284	2	LOCKWASHER, #10
	70901310	2	NUT, #10-NC
26	70677176	1	BRACKET, cable supporting
27	70677179	1	END, rod, control cable (engine end)
28	70917645	1	PIN, cable rod end
	70910335	2	WASHER, plain, SAE std., 5/16"
	70900801	1	PIN, cotter, 3/32" x 3/4"

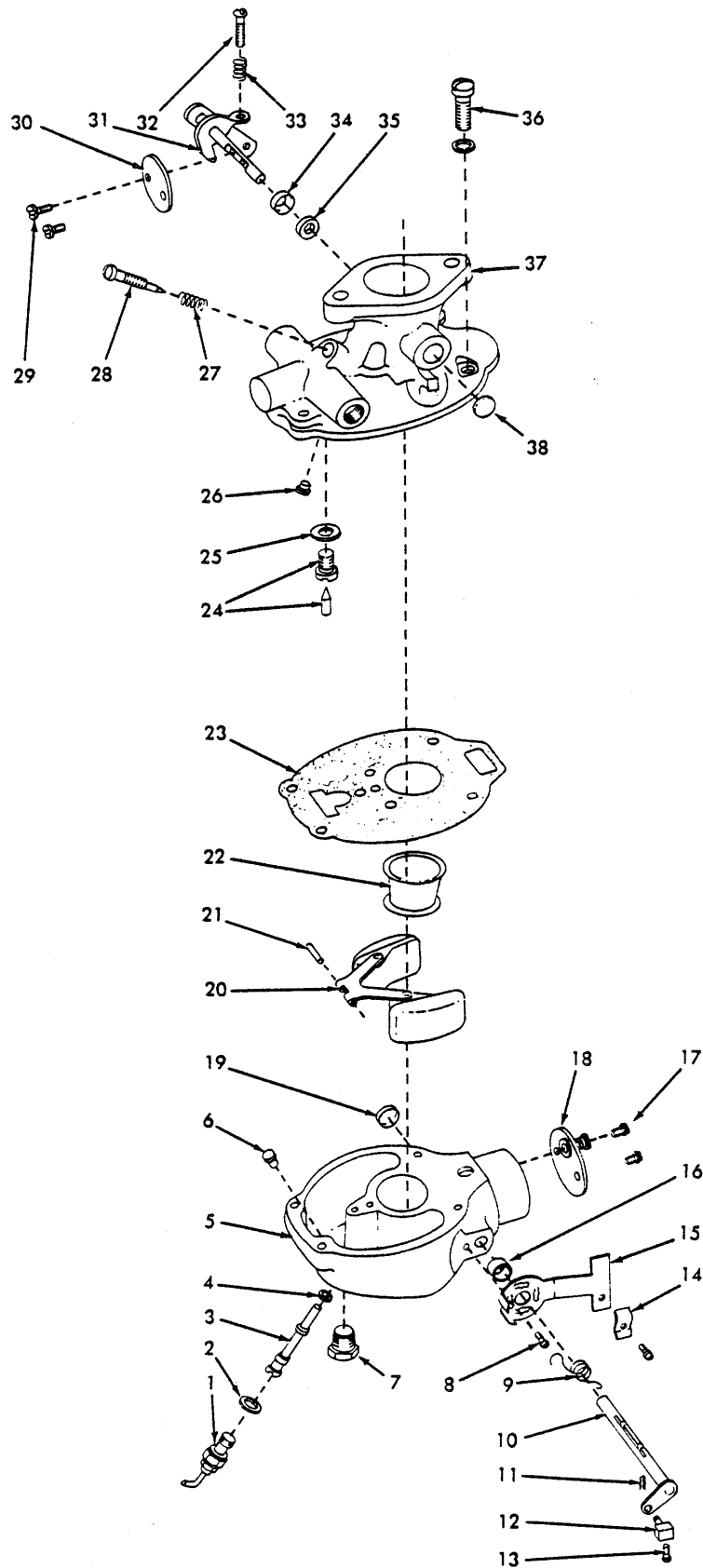
MANIFOLD AND CARBURETOR

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION



1	70239961	1	CARBURETOR ASSY. (Marvel-Schebler. See page 63 for parts)
2	70230917	2	STUD, carburetor attaching
	70904205	2	LOCKWASHER, 5/16"
	70900366	2	NUT, 5/16"NC
3	70230807	1	MANIFOLD, intake and exhaust
4	70229958	1	□ GASKET SET, manifold (6 gaskets and 6 retainers)
5	70234494	1	MUFFLER, exhaust (4-1/4" diam.)
6	70245444	1	CLAMP ASSY., muffler (Includes bolt and nut)
7	70234541	1	PIPE, exhaust manifold
8	70229339	6	STUD, manifold
	70911998	6	WASHER, plain
9	70229340	6	NUT, manifold stud (elastic stop, 7/16"NF)
10	70233209	1	□ GASKET, carburetor to manifold



CARBURETOR ASSEMBLY 70239961

T-41824

CARBURETOR ASSEMBLY 70239961
(Marvel-Schebler)

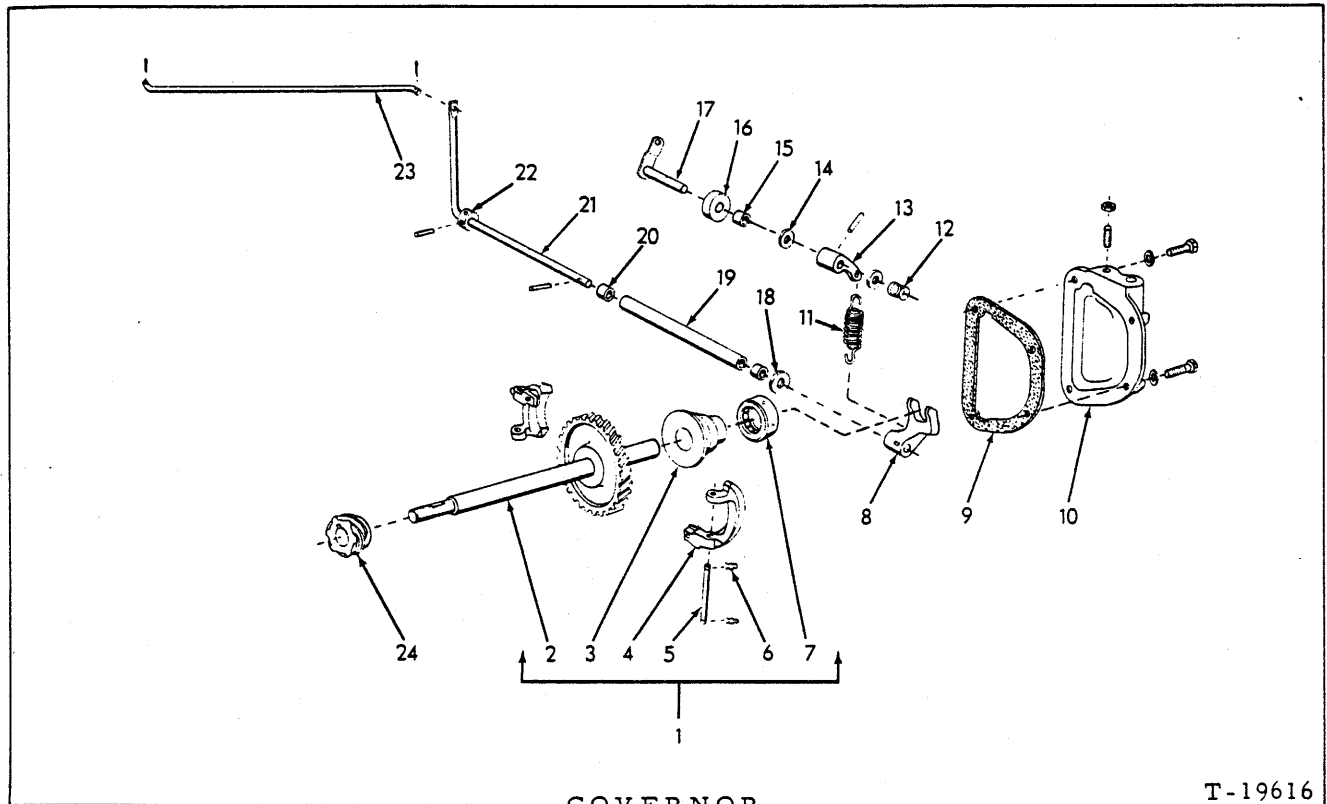
USAGE: Gas - powered, effective serial No. 75Y00201. See page 61

ITEM	PART NO.	QTY.	DESCRIPTION
1	70226479	1	NEEDLE and SEAT ASSY., main adjustment
2	70226466	1	GASKET, seat, main adjustment
3	70226460	1	NOZZLE
4	70226468	1	GASKET, nozzle
5	-----	1	BOWL (Not serviced separately)
6	70226469	1	☐ JET, power
7	70224061	1	PLUG, drain
8	74046824	1	SCREW, choke bracket
9	74046828	1	SPRING, choke return
10	71119445	1	SHAFT ASSY., choke
11	70222069	1	SPRING, swivel retaining
12	70237177	1	SWIVEL, choke shaft
13	70222045	1	SCREW, choke shaft swivel
14	70237169	1	CLIP, choke bracket
	70901211	1	SCREW, machine, fil-hd., #8-32NC x 3/8"
15	70237168	1	BRACKET ASSY., choke (Includes items 8 and 14)
16	70219969	1	☐ PACKING, choke shaft
17	70226444	2	☐ SCREW, choke plate (Includes lockwasher)
18	70226453	1	PLATE ASSY., choke (Includes poppet valve, spring and retainer)
19	70219992	1	CUP, closure, choke shaft hole
20	70226456	1	FLOAT and LEVER ASSY.
21	70226457	1	☐ SHAFT, float lever
22	70226448	1	VENTURI
23	70226452	1	GASKET, fuel bowl
24	70226458	1	☐ VALVE ASSY., float (Includes seat and gasket)
25	70219998	1	GASKET, valve float
26	70220006	1	☐ JET, idling
27	70219978	1	SPRING, idle adjustment needle
28	70219987	1	☐ NEEDLE, idle adjustment

☐ Components of item 40
(Continued)

CARBURETOR ASSEMBLY 70239961 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
29	74054544	2	SCREW, throttle plate (Includes lockwasher)
30	70226443	1	PLATE, throttle
31	70231437	1	☐ SHAFT ASSY., throttle (Includes items 32 and 33)
32	70220000	1	SCREW, stop, throttle
33	70219977	1	SPRING, throttle stop
34	70226447	1	☐ RETAINER, throttle shaft seal
35	70226446	1	☐ SEAL, throttle shaft
36	70226451	4	SCREW, bowl (Includes lockwasher)
37	-----	1	BODY (Not serviced separately)
38	70240952	1	PLUG, throttle shaft hole
39	70226470	1	☐ GASKET SET (Includes items 2, 4, 23 and 25; also new carburetor flange gasket)(Not illustrated)
40	70231439	1	CARBURETOR KIT (Includes items 6, 16, 17, 21, 24, 26, 28, 31, 34, 35 and 39)(Not illustrated)
			☐ Components of item 40



GOVERNOR

T-19616

USAGE: Gas - powered, effective serial No. 75Y00201

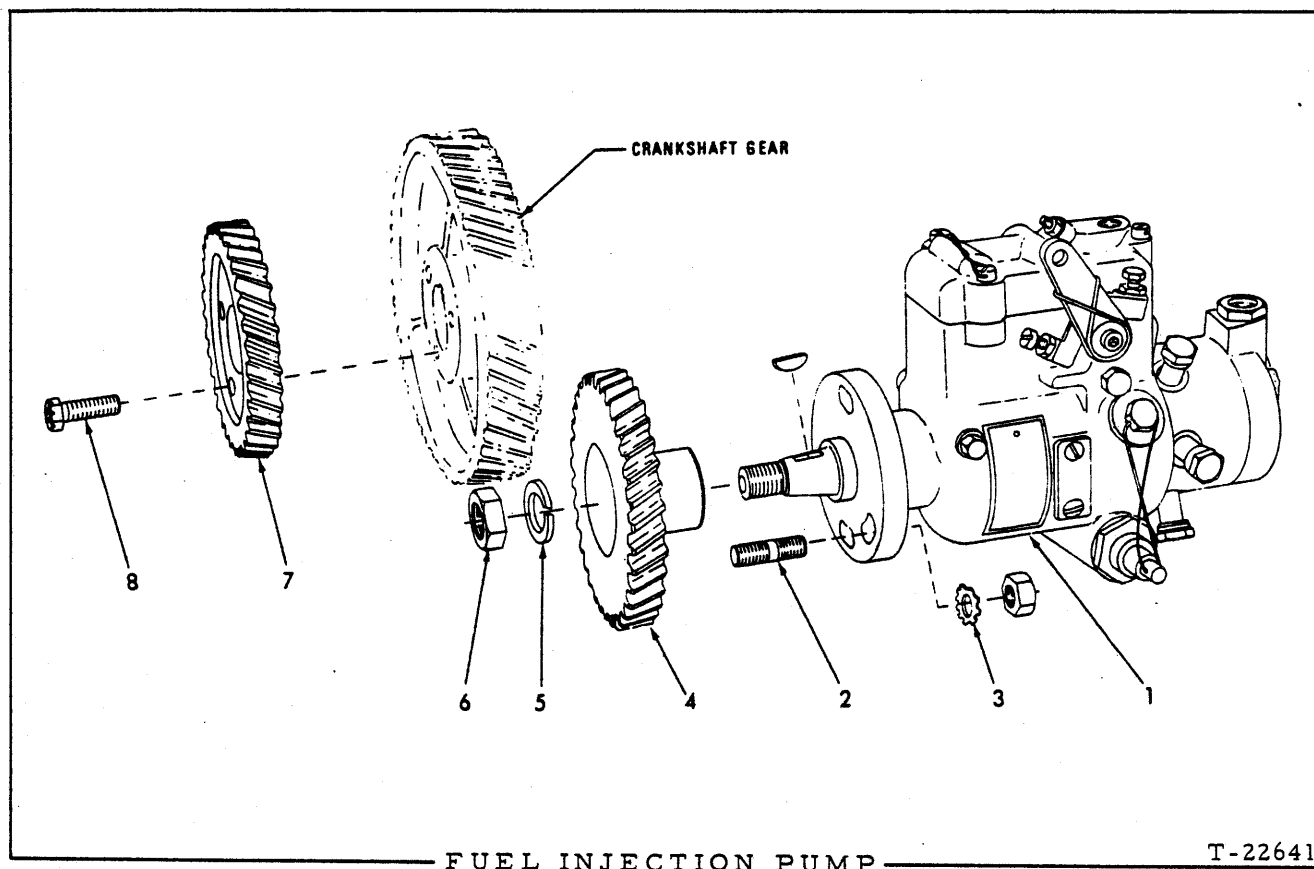
ITEM PART NO. QTY. DESCRIPTION

1	70225077	1	GOVERNOR ASSY. (Consists of items 2 thru 7)
2	70225074	1	SHAFT ASSY. (Includes gear and pin. Serviced only as a unit)
3	70226237	1	CARRIER, thrust bearing
4	70229980	2	WEIGHT ASSY. (Includes wear pin. Serviced only as a unit)
5	70211368	2	PIN, weight pivot
6	70207719	4	CLIP, spring, weight pivot pin
7	70215242	1	BEARING, ball, weight thrust
8	70203094	1	LEVER, forked
	70901357	1	PIN, taper, #0 x 3/4"
9	70233215	1	GASKET, governor cover
10	70229230	1	COVER, governor
	70921382	2	CAPSCREW, 1/4"NC x 1-1/4"
	70921383	2	CAPSCREW, 1/4"NC x 1-1/2"
	70230308	4	WASHER, plain (copper)
	70917099	1	SETSCREW, hex-socket, cup-pt., 5/16"NC x 1"
	70914321	1	NUT, jam, 5/16"NC
11	70229519	1	SPRING ASSY. (Includes plunger. Serviced only as a unit)
12	70208662	1	SPRING, control shaft

(Continued)

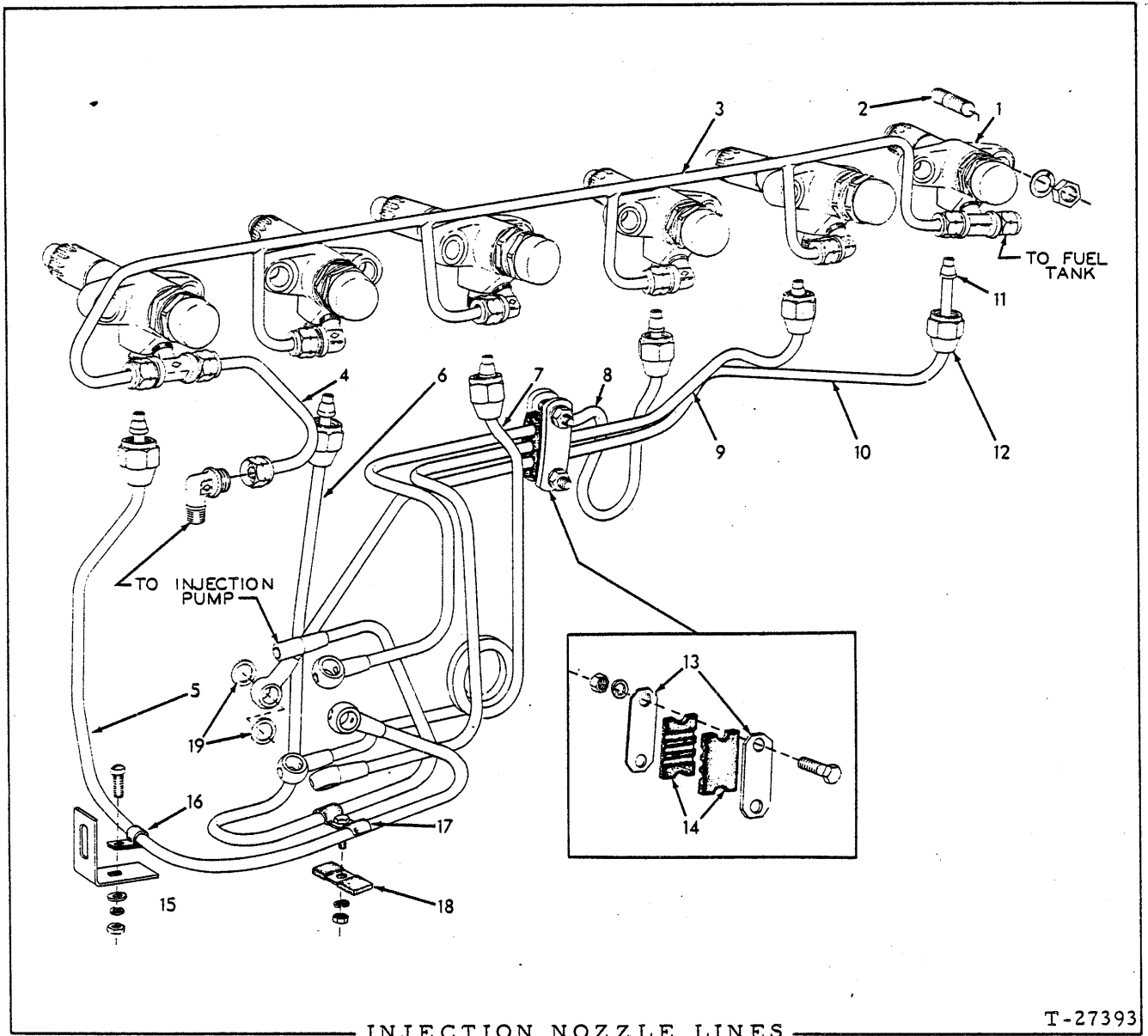
GOVERNOR (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
13	70208817	1	LEVER, control
	70901357	1	PIN, taper, #0 x 3/4"
14	70208566	2	WASHER, control shaft (steel)
15	70203097	1	BUSHING, control shaft
16	70206072	1	SEAL, oil, control shaft
17	70229231	1	SHAFT, control
18	70218445	-	WASHER, cross shaft (.018" thick. Use as required)
	70208566	-	WASHER, cross shaft (.037" thick. Use as required)
	70218444	-	WASHER, cross shaft (.1/16" thick. Use as required)
19	70203096	1	TUBE, cross shaft
20	70203097	2	BUSHING, cross shaft
21	70203095	1	SHAFT, operating
22	70203098	1	COLLAR, cross shaft
	70901357	1	PIN, taper, #0 x 3/4"
23	70237203	1	LINK, carburetor
	70900970	2	PIN, cotter, 1/16" x 1/2"
24	-----	1	GEAR, distributor drive (See BATTERY IGNITION)



USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74516526	1	PUMP ASSY., fuel injection (Includes items 5 and 6)
2	74515490	2	STUD (3/8"NC x 3/8"NF x 1-3/16")
	70910123	2	NUT, 3/8"NF
3	74371718	2	WASHER, serrated
4	74507469	1	GEAR, fuel pump
	70910224	1	KEY, #6 woodruff, 5/32" x 5/8"
5	74048598	1	LOCKWASHER, pump shaft nut
6	74048597	1	NUT, pump shaft
7	74516087	1	GEAR, pump driving
8	74255723	3	BOLT, retaining (self-locking)



INJECTION NOZZLE LINES

T-27393

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	6	HOLDER ASSY., nozzle (See page 70)
2	74513810	12	STUD (3/8" diam.)
	70904206	12	LOCKWASHER, 3/8"
	70910123	12	NUT, 3/8"NF
3	74508951	1	MANIFOLD, fuel return
	70917809	6	NUT, Imperial, 1/4" tube
	70917806	6	SLEEVE, Imperial, 1/4" tube
	70919040	4	ELBOW, Imperial, 90°, 1/4" tube, 1/8"NPT male
	70919041	2	TEE, Imperial, 1/4" tube, 1/8"NPT male side

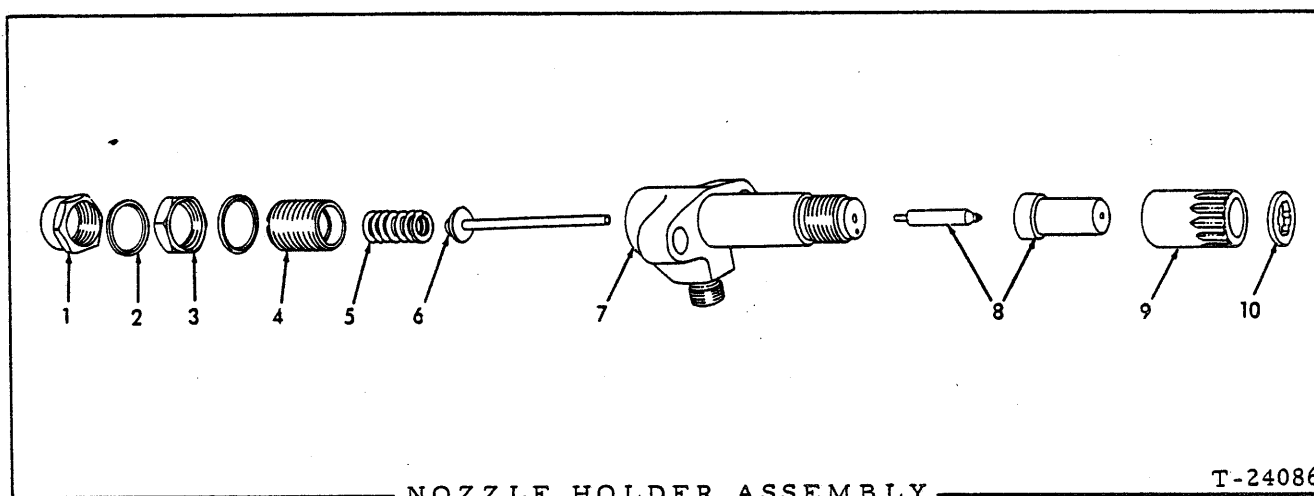
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(Revised June 1977)

INJECTION NOZZLE LINES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
4	74512688	1	TUBE, fuel overflow
	70917809	2	NUT, Imperial, 1/4" tube
	70917806	2	SLEEVE, Imperial, 1/4" tube
	70919040	1	ELBOW, Imperial, 90°, 1/4" tube, 1/8"NPT male
5	74514526	1	LINE, fuel, #1 cylinder
6	74515586	1	LINE, fuel, #2 cylinder
7	74514528	1	LINE, fuel, #3 cylinder
8	74514529	1	LINE, fuel #4 cylinder
9	74514530	1	LINE, fuel, #5 cylinder
10	74514531	1	LINE, fuel, #6 cylinder
11	74501149	6	SLEEVE, fuel line
12	74504409	6	NUT, fuel line
13	74507415	2	PLATE, fuel line clamping
	70918237	2	CAPSCREW, 1/4"NC x 1-1/4" (1 less used on engines #D-20577 and up)
	70910898	1	CAPSCREW, 1/4"NC x 1-3/4" (Engine #D-20577 and up)
	70904204	2	LOCKWASHER, 1/4"
	70910880	2	NUT, 1/4"NC
14	74507359	2	SPACER, fuel line (rubber)
15	74513539	1	BRACKET, supporting, #1 fuel line
16	74513538	1	CLIP, #1 fuel line
	70901216	1	SCREW, machine, fil-hd., #10-24NC x 1/2"
	70904203	1	LOCKWASHER, #10
	70901310	1	NUT, #10-24NC
	70911982	1	WASHER, plain
17	74513552	1	CLAMP, #1 and #2 fuel lines
	70903572	1	SCREW, machine, fil-hd., 5/16"NC x 5/8"
	70904205	1	LOCKWASHER, 5/16"
	70910323	1	NUT, 5/16"NC
18	74513553	1	PLATE, fuel line clamp
19	74027748	12	WASHER, fuel line

(Revised June 1977)



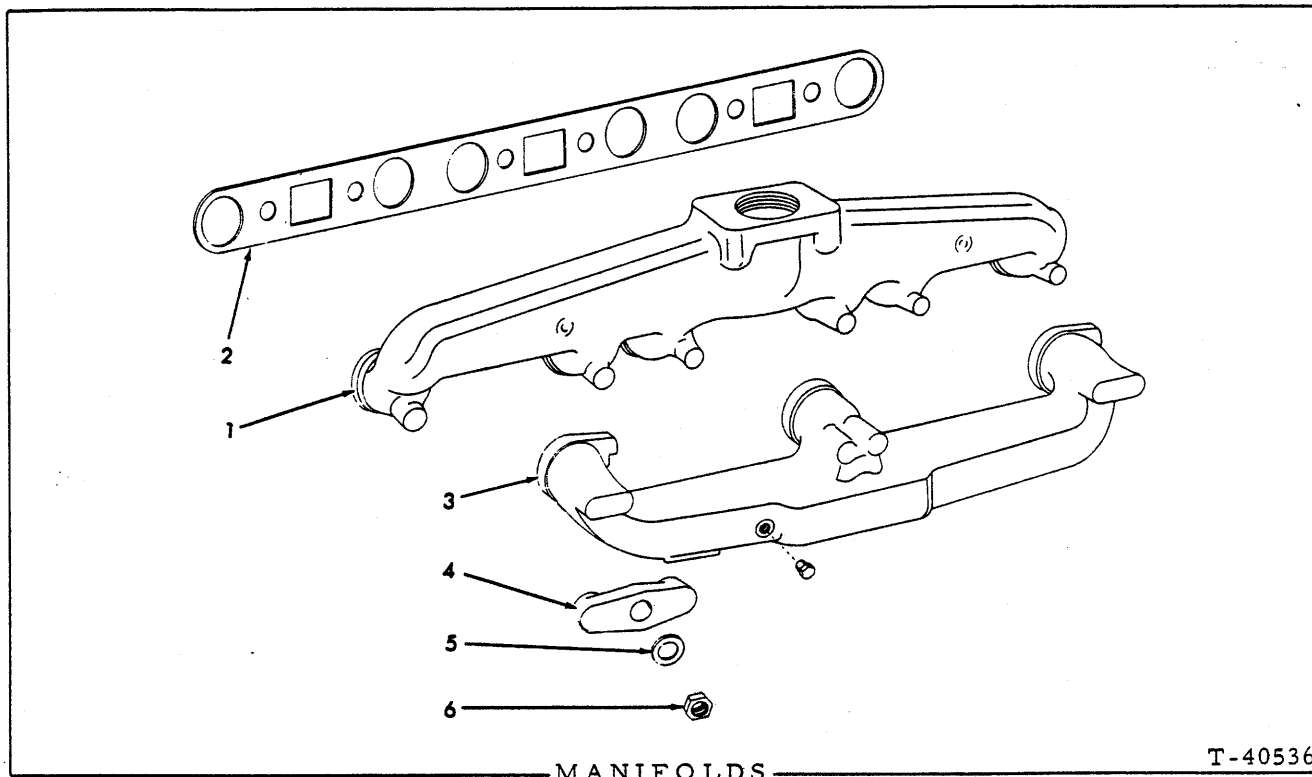
NOZZLE HOLDER ASSEMBLY

T-24086

USAGE: See page 68

NOTE: Quantities indicated are for one (1) Holder Assy. only

ITEM	PART NO.	QTY.	DESCRIPTION
-	74516394	1	HOLDER ASSY., injection nozzle (Includes items 1 thru 10)
1	74511215	1	NUT, cap
2	74511243	2	GASKET, cap nut
3	74511213	1	NUT, adjusting screw
4	74378033	1	SCREW, adjusting
5	74380652	1	SPRING, spindle rod
6	74511208	1	ROD, spindle
7	-----	1	BODY, nozzle holding (Not serviced separately)
8	74516393	1	NOZZLE ASSY. (Consists of 1 body, 1 valve and item 10)
9	74511217	1	NUT, nozzle retaining
10	74511204	1	GASKET, nozzle holder to cylinder head



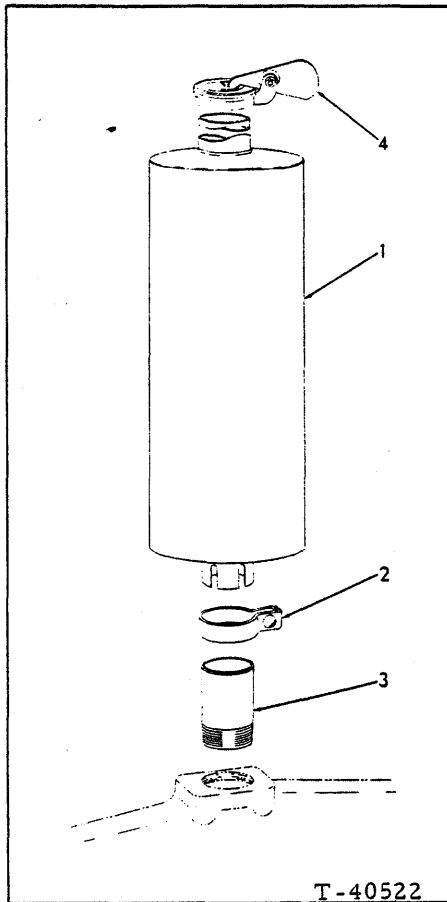
MANIFOLDS

T-40536

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74513497	1	MANIFOLD, exhaust
2	74504562	1	GASKET, manifolds to cylinder head
3	74506404	1	MANIFOLD, intake
	70919840	1	PLUG, pipe, hex-hd., 1/4"NPT
4	74508883	6	CLAMP, manifold
5	70914678	6	WASHER, manifold nut
6	74117050	6	NUT, manifold stud

(Revised June 1977)

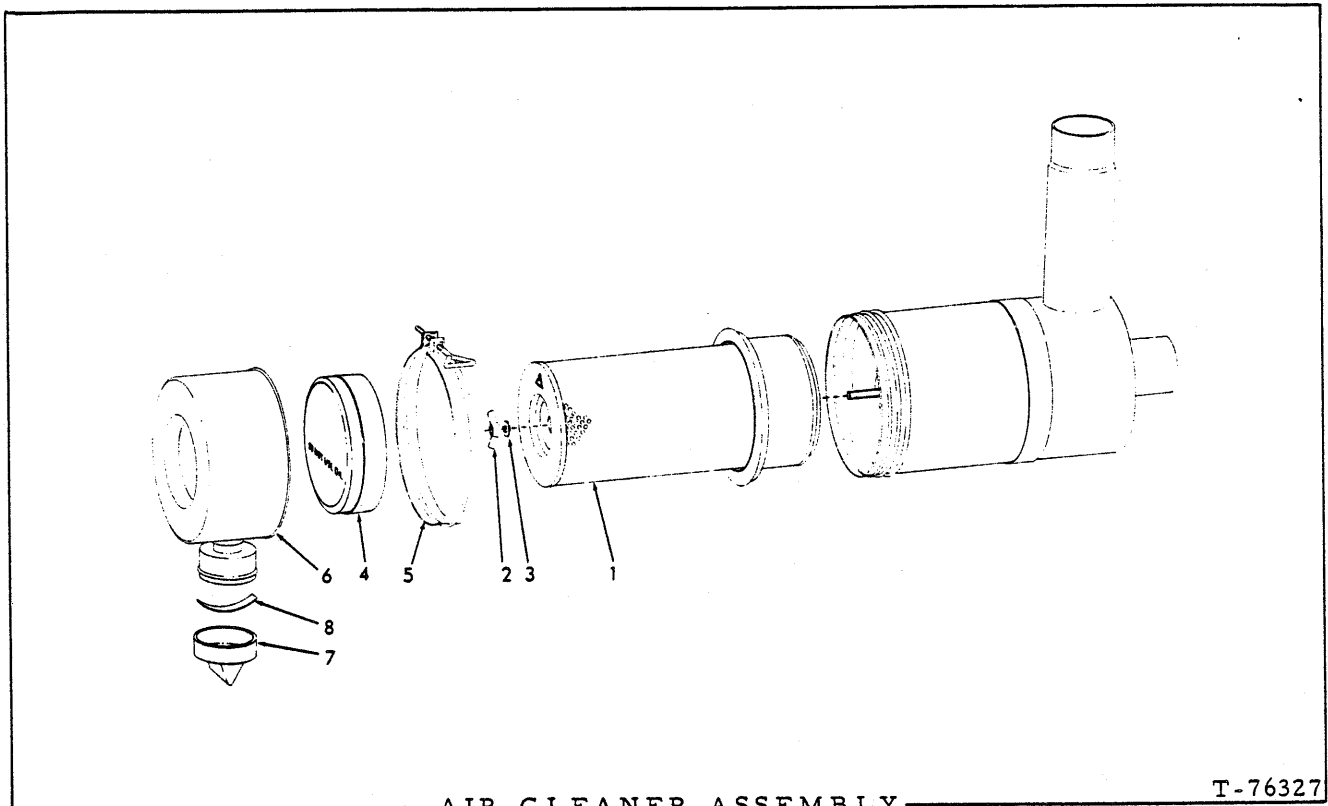


MUFFLER

USAGE: Diesel-powered, effective serial No. 24A00201 and 56Y02201.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70237290	1	MUFFLER, exhaust
2	70694905	1	CLAMP ASSY., muffler (Includes bolt)
3	74513471	1	PIPE, muffler adapting
4	70236922	1	RAINCAP (Special equipment)

(Revised June 1977)

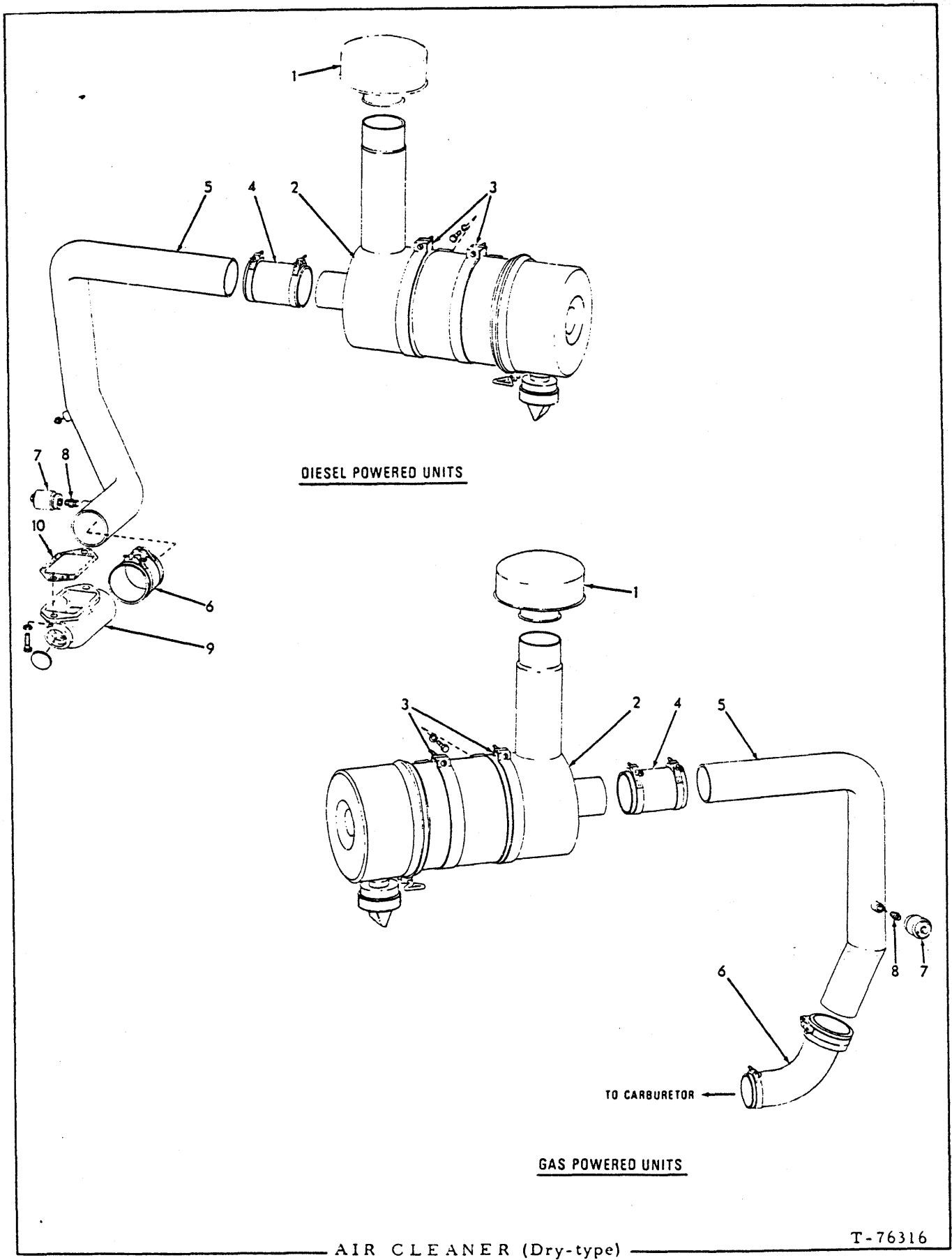


AIR CLEANER ASSEMBLY
(Dry-type)

T-76327

USAGE: See page 75

ITEM	PART NO.	QTY.	DESCRIPTION
-	70674953	1	CLEANER ASSY., air (Includes items 1 thru 8)
1	70243163	1	ELEMENT, air cleaner (Includes item 3)
2	70239517	1	NUT ASSY., element retaining (Includes item 3)
3	-----	1	GASKET, element retaining nut
4	70640658	1	BAFFLE, air (rubber)
5	74996247	1	CLAMP ASSY., sediment cup (Includes screw)
6	70677804	1	CUP, sediment
7	70197810	1	VALVE, unloading
8	70677805	1	SPRING, unloading valve

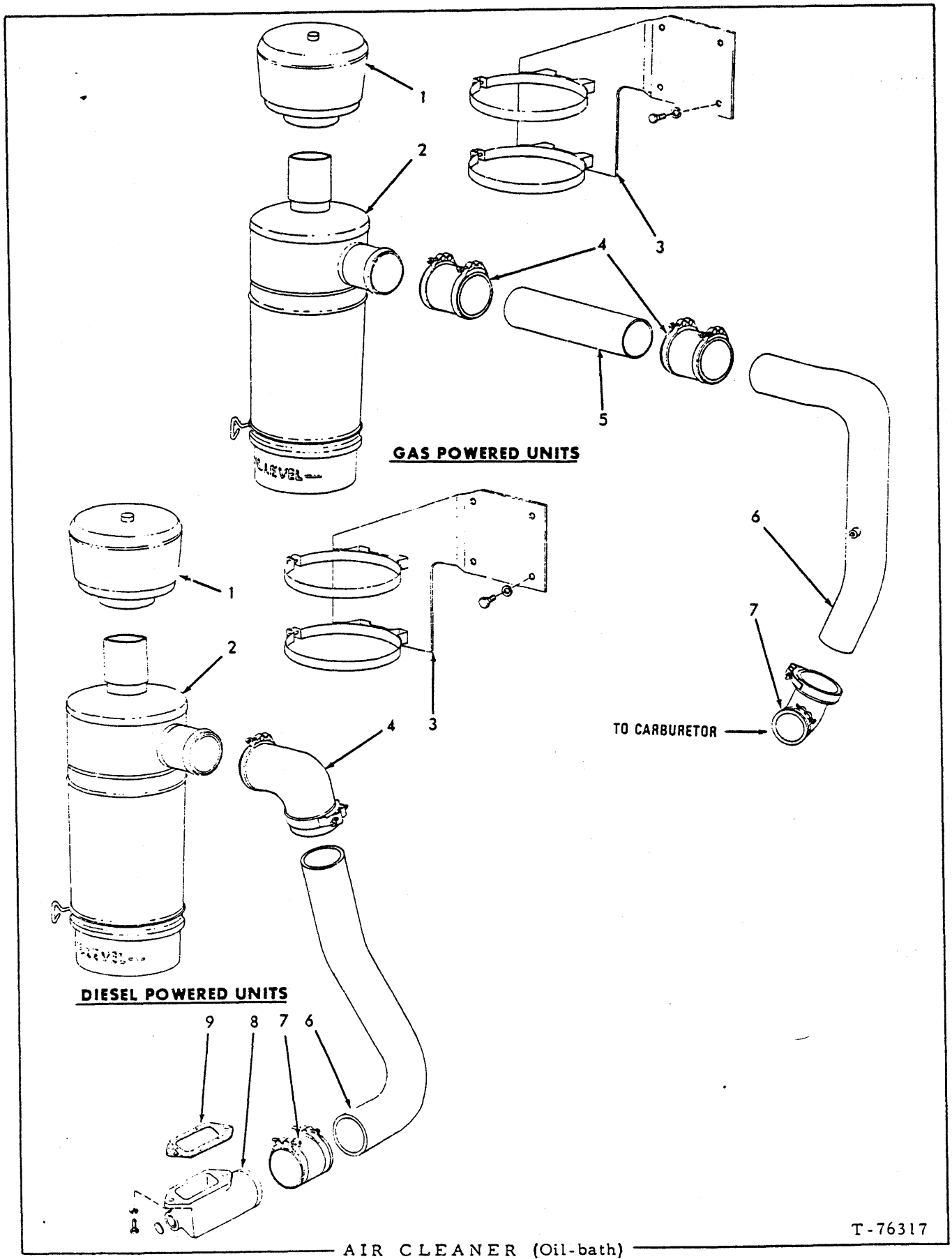


AIR CLEANER
(Dry-type)

USAGE: Standard, See page 77 for optional oil-bath cleaner

ITEM	PART NO.	QTY.	DESCRIPTION
1	73024261	1	CAP, rain
2	-----	1	CLEANER ASSY., air (See page 73)
3	70622619	2	BAND, mounting
	70927400	4	CAPSCREW, 3/8"NC x 5/8"
	70910287	4	LOCKWASHER, 3/8"
4	70040144	1	HOSE, upper
	70926041	2	CLAMP, hose, 2-1/2" to 2-13/16" diam.
5	70674427	1	TUBE, (Effective on S/N 24A00201, 56Y02201)
	70901652	1	PLUG, pipe, sq-hd., 1/4"NPT (Not used when engine primer is installed)
	70677134	1	TUBE, (Effective on S/N 75Y00201)
	70901651	1	PLUG, pipe, 1/8"NPT (Not used when Air Restriction Indicator is installed)
6	70040144	1	HOSE, lower (Effective on S/N 24A00201, 56Y02201)
	70926041	2	CLAMP, hose, 2-1/2" to 2-13/16" diam.
	70676814	1	HOSE, lower (Effective on S/N 75Y00201)
	70926041	1	CLAMP, hose, 2-1/2" to 2-13/16" diam.
	70927140	1	CLAMP, hose, 2-1/8" to 2-7/16" diam.
7	74021600	1	INDICATOR ASSY., filter (Serviced only as a unit) (Special equipment)
8	70622447	1	FITTING, connector, filter indicator (Includes filter)
9	74513924	1	HOUSING, air inlet
	70910014	1	PLUG, expansion, 1-1/2" diam.
	70916271	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	LOCKWASHER, 3/8"
10	74513809	1	GASKET, air inlet housing

Effective on
S/N 24A00201,
56Y02201



T-76317

AIR CLEANER (Oil-bath)

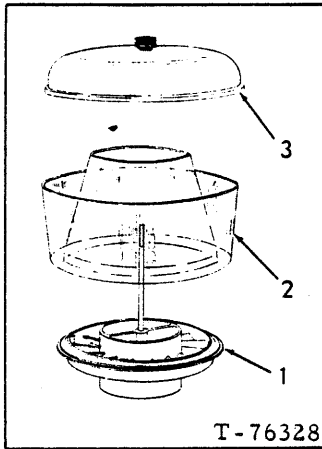
USAGE: Optional equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	PRE-CLEANER ASSY., air (See page 78)
2	-----	1	CLEANER ASSY., air (See page 78)
3	70677584	1	BRACKET, mounting
	70922763	4	CAPSCREW, 3/8"NC x 5/8"
	70910287	4	LOCKWASHER, 3/8"
4	{ 70235371	1	HOSE, upper (Effective on S/N 24A00201, 56Y02201)
	{ 70040144	2	HOSE, upper (Effective on S/N 75Y00201)
	70926041	4	CLAMP, hose, 2-1/2" to 2-13/16" diam. (Two less used on diesel-powered units)
5	70677585	1	TUBE, horizontal
6	{ 70640725	1	TUBE, vertical (Effective on S/N 24A00201, 56Y02201)
	{ 70901652	1	PLUG, pipe, sq-hd., 1/4"NPT
	{ 70677134	1	TUBE, vertical (Effective on S/N 75Y00201)
	70901651	1	PLUG, pipe, 1/8"NPT
7	{ 70040144	1	HOSE, lower (Effective on S/N 24A00201, 56Y02201)
	{ 70926041	2	CLAMP, hose, 2-1/2" to 2-13/16" diam.
	{ 70676814	1	HOSE, lower (Effective on S/N 75Y00201)
	{ 70926041	1	CLAMP, hose, 2-1/2" to 2-13/16" diam.
	{ 70927140	1	CLAMP, hose, 2-1/8" to 2-7/16" diam.
8	74513924	1	HOUSING, air inlet
	70910014	1	PLUG, expansion, 1-1/2" diam.
	70916271	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	LOCKWASHER, 3/8"
9	74513809	1	GASKET, air inlet housing

Effective on
S/N 24A00201,
56Y02201

PRE-CLEANER ASSEMBLY

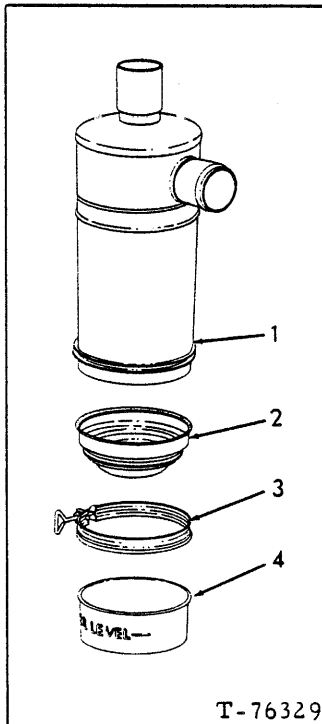
USAGE: See page



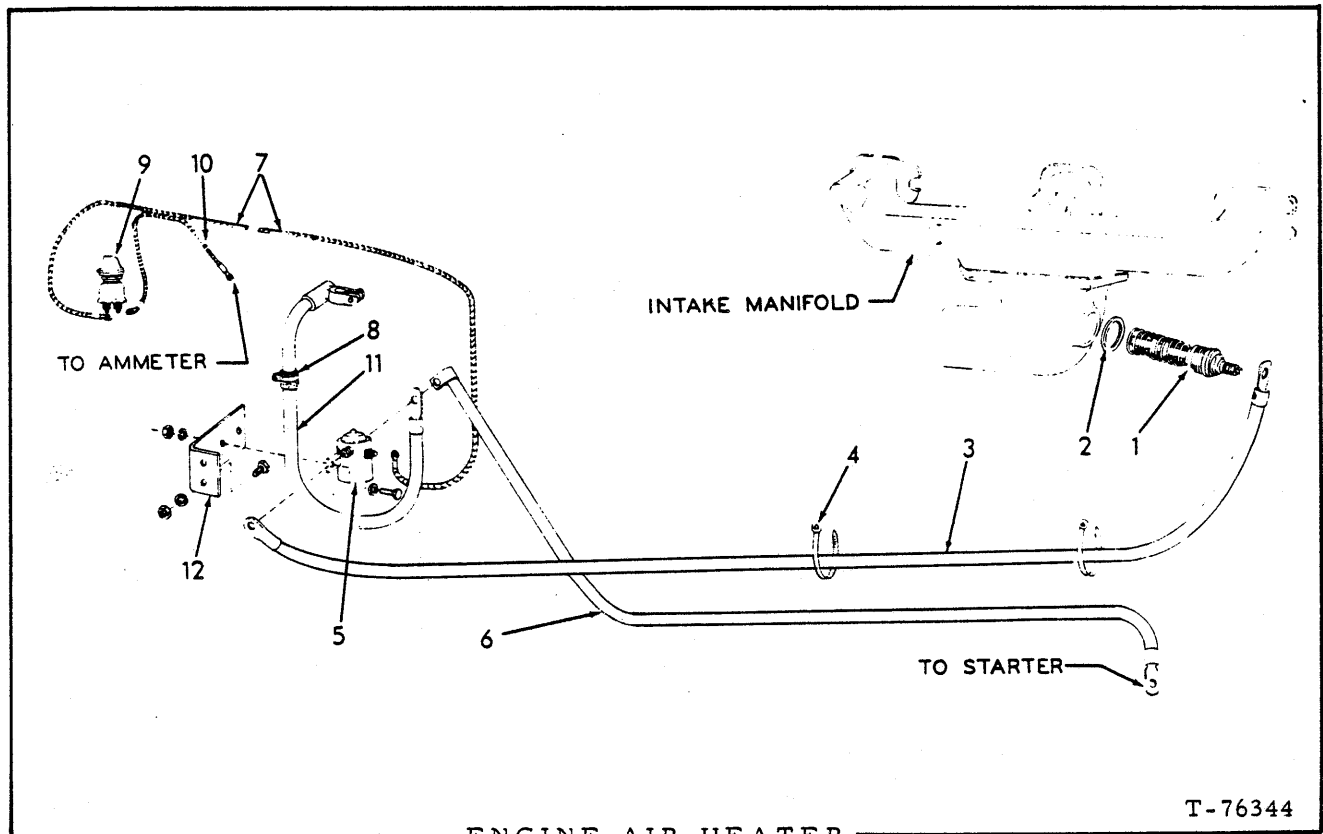
ITEM	PART NO.	QTY.	DESCRIPTION
-	70655289	1	PRE-CLEANER ASSY., air (Includes item 1 thru 3)
1	70657284	1	SLEEVE ASSY., pre-cleaner (Includes stud)
2	70629117	1	BOWL, pre-cleaner
3	70629118	1	COVER ASSY., pre-cleaner (Includes nut)

AIR CLEANER ASSEMBLY

USAGE: See page



ITEM	PART NO.	QTY.	DESCRIPTION
-	70655468	1	CLEANER ASSY., air (Includes items 1 thru 4)
1	-----	1	BODY, air cleaner (Not serviced separately)
2	70656649	1	CUP ASSY., air cleaner, inner (Includes gasket)
3	70656643	1	CLAMP ASSY., air cleaner, oil cup (Includes screw)
4	71123855	1	CUP, air cleaner, outer



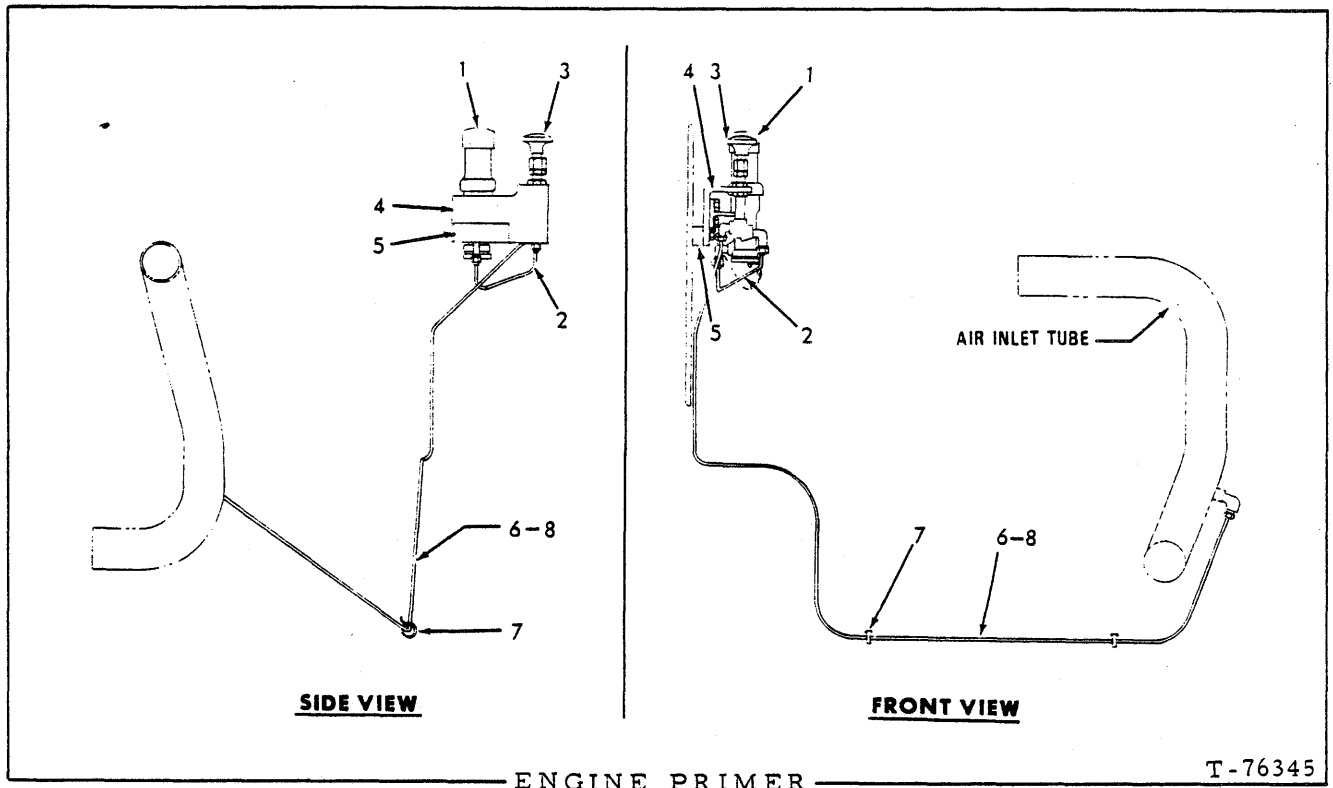
ENGINE AIR HEATER

T-76344

USAGE: Special equipment, Diesel-powered, effective serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74516760	1	ELEMENT ASSY., heating (Includes item 2)
2	74512343	1	GASKET, heating element
3	70677813	1	CABLE, magnetic switch to heating element
4	73044015	7	TIE, cable supporting
5	74749701	1	SWITCH, magnetic
	70900574	2	SCREW, rd.-hd., 1/4"NC x 1/2" (Graders prior to unit #01528)
	70927338	2	CAPSCREW, 1/4"NC x 7/8" (Graders unit #01528 and up)
	70928190	2	WASHER, plain
	70910285	2	LOCKWASHER, 1/4"
	70911024	2	NUT, 1/4"NC
6	70624336	1	CABLE, magnetic switch to starter
7	70677795	1	CABLE, push-button switch to magnetic switch
8	70076469	1	BOOT, cable protecting
	70922660	1	CLAMP
9	70240962	1	SWITCH, push-button (Includes mounting nut)
10	70677794	1	CABLE, switch to ammeter
11	70031719	1	CABLE, battery to magnetic switch
12	70693845	1	ANGLE, switch mounting (Graders unit #01528 and up)
	70927338	2	CAPSCREW, 1/4"NC x 7/8"
	70910285	2	LOCKWASHER, 1/4"
	70911024	2	NUT, 1/4"NC

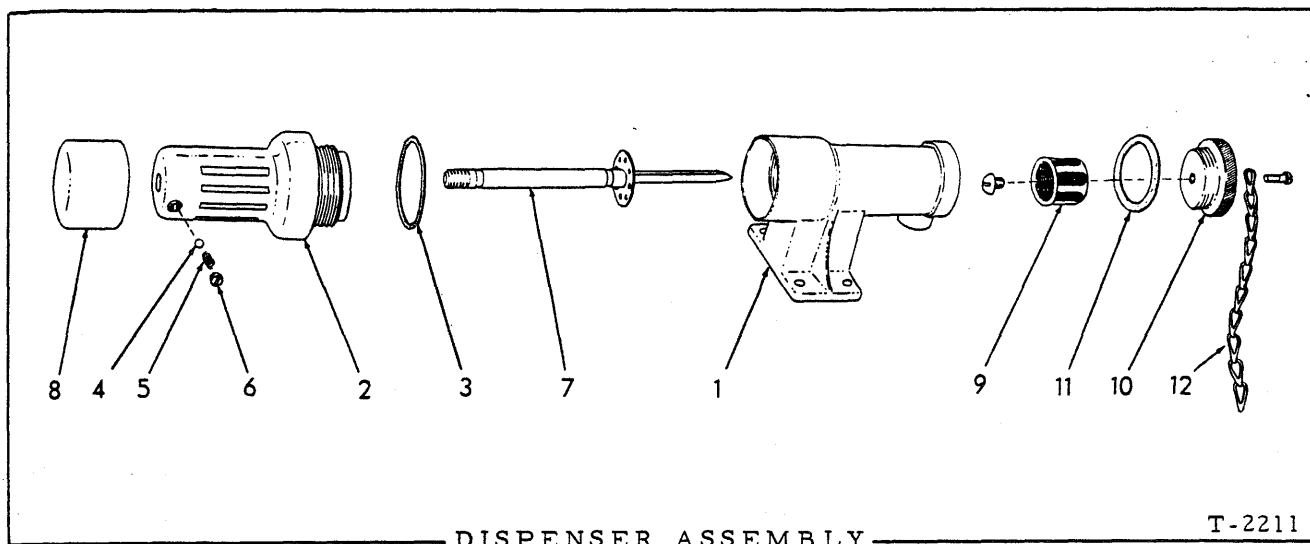
(Revised June 1977)



USAGE: Special equipment. Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	DISPENSER ASSY., priming fuel (See page 81)
	70925085	3	SCREW, thread-forming, #10 x 1/2"
	70925086	1	SCREW, thread-forming, #10 x 3/4"
2	70095020	1	TUBE ASSY., dispenser to pump
	70919093	2	ELBOW, flare type, 90°, 1/8" tube, 1/8"NPT male
3	-----	1	PUMP ASSY., (See page 82)
4	70671885	1	BRACKET, mounting
	70922300	2	CAPSCREW, 3/8"NC x 3/4"
	70910287	2	LOCKWASHER, 3/8"
5	70620956	1	BLOCK, tapped (Requires welding to install)
6	-----	1	TUBE, pump to air inlet tube (Order item #8)
	70919100	1	NUT, flare type, 1/8" tube
	70919099	1	SLEEVE, flare type, 1/8" tube
	70919093	1	ELBOW, flare type, 90°, 1/8" tube, 1/8"NPT male
7	73044015	2	TIE, tube supporting
8	70066253	-	TUBING, copper, 1/8"O.D., 10ft. roll (Use as required)

(Revised June 1977)

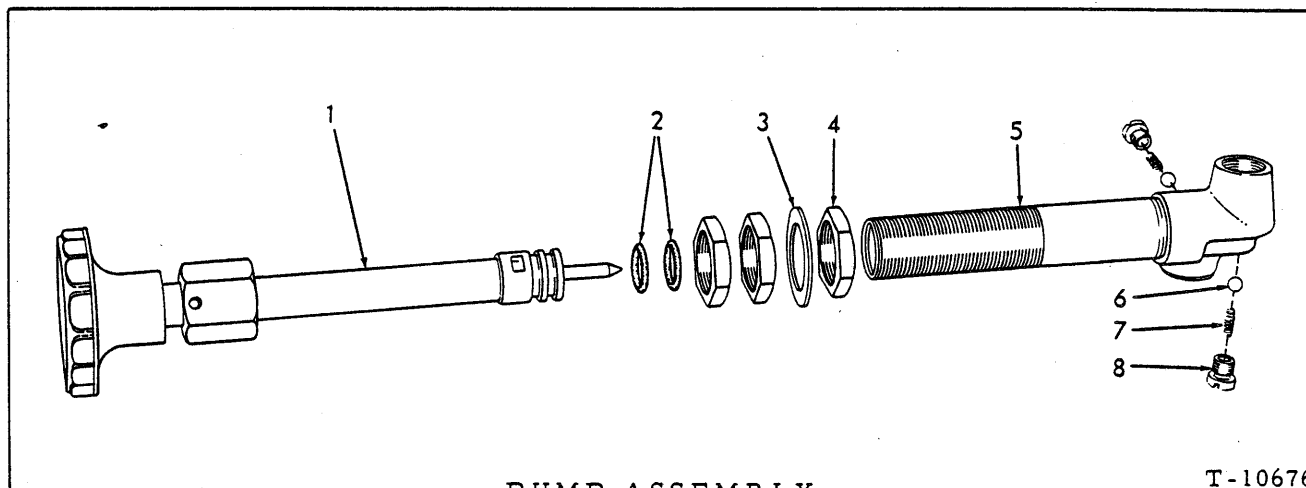


DISPENSER ASSEMBLY

T-2211

USAGE: See page 80

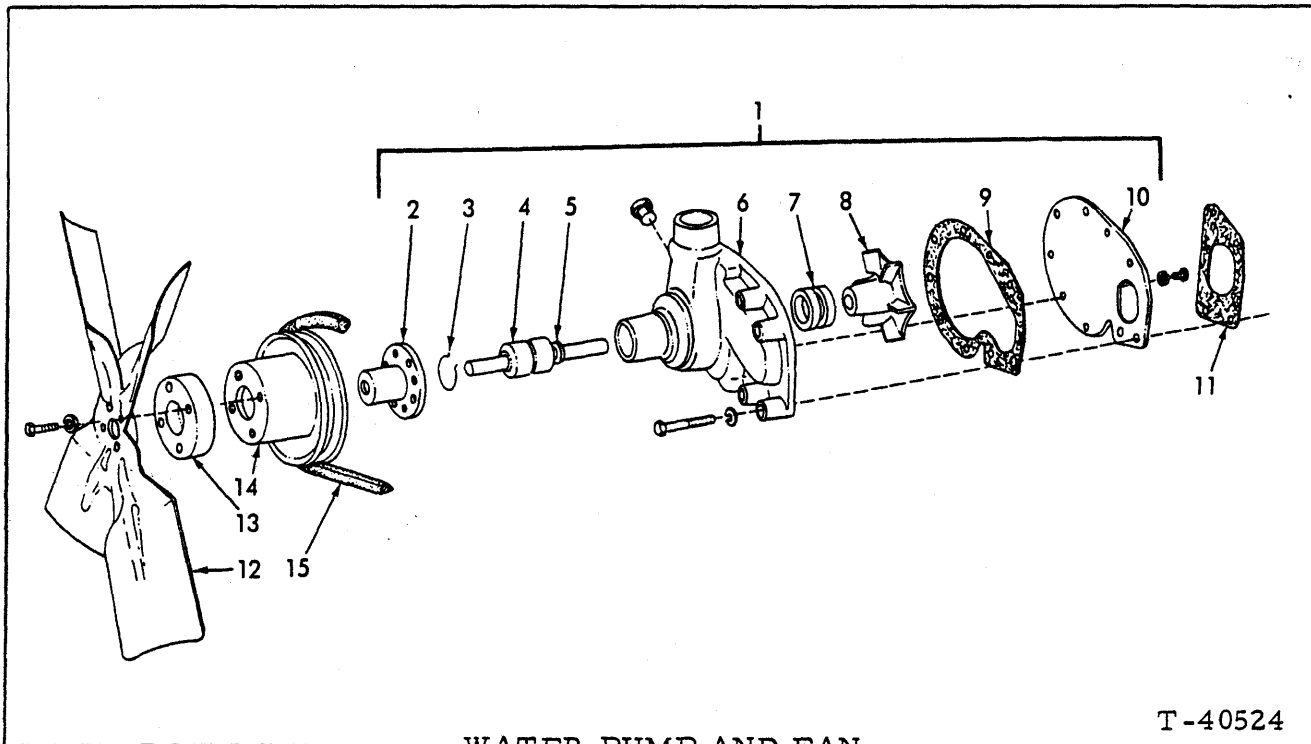
ITEM	PART NO.	QTY.	DESCRIPTION
-	70075771	1	DISPENSER ASSY. (Includes items 1 thru 12)
1	70068878	1	BODY, fuel dispenser
2	70068879	1	CHAMBER, fuel dispenser
3	70069164	1	GASKET, fuel dispenser chamber
4	70905357	1	BALL, steel, 3/16" diam.
5	70066251	1	SPRING, plunger locking ball
6	70066252	1	PLUG, 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, rd-hd., 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"



USAGE: See page 80

ITEM PART NO. QTY. DESCRIPTION

-	70092160	1	PUMP ASSY. (Includes items 1 thru 8)
1	-----	1	PISTON ASSY. (Not serviced separately)
2	70923560	2	O-RING, plunger
3	70066873	1	WASHER, mounting
4	70066872	3	NUT, mounting
5	-----	1	BARREL ASSY. (Not serviced separately)
6	70066876	2	BALL, check valve (5/32" diam.)
7	70066875	2	SPRING, check valve
8	70066874	2	RETAINER, check valve



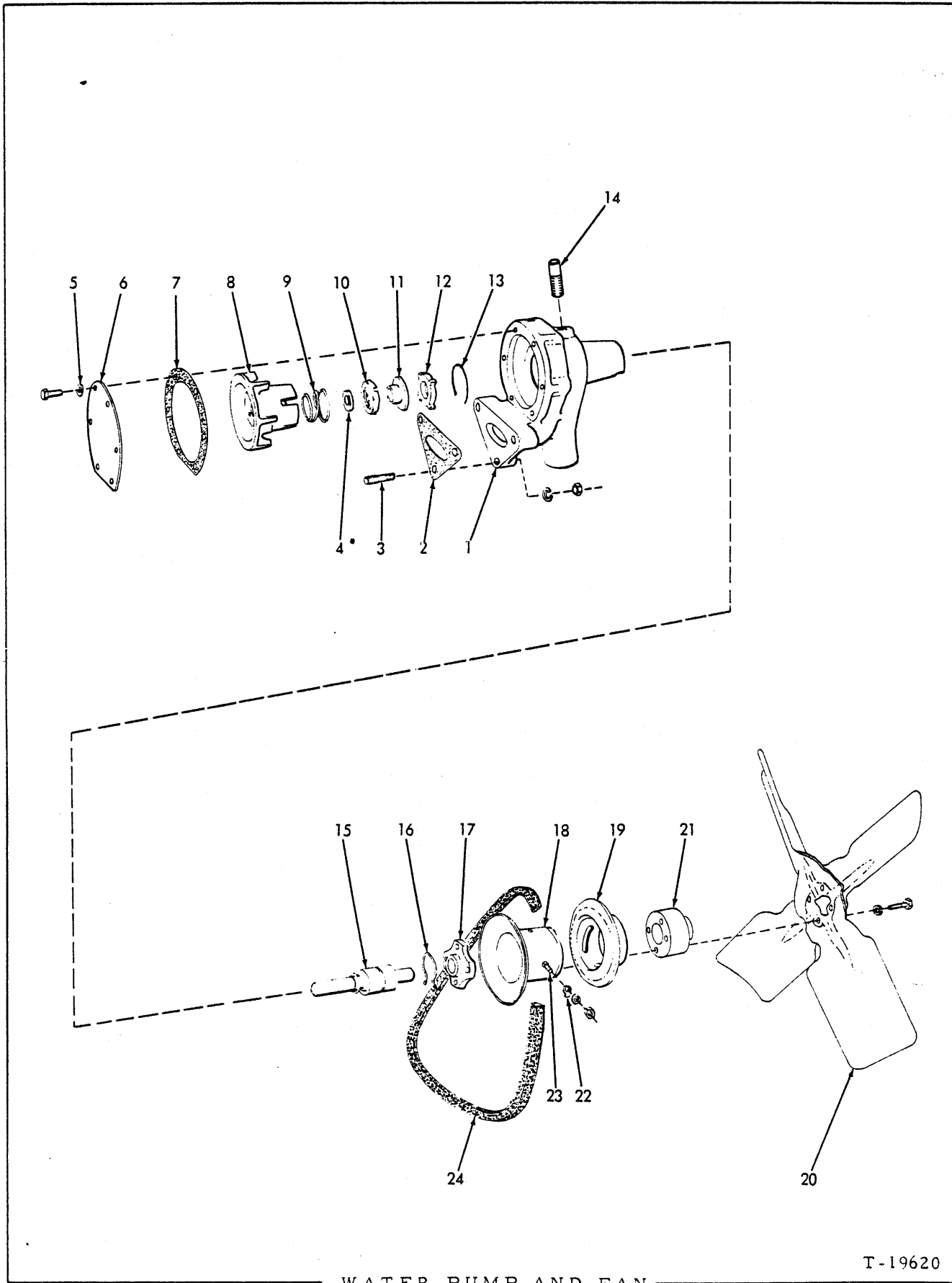
WATER PUMP AND FAN

T-40524

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
-	74512756	1	REPAIR KIT, water pump (Consists of items 3, 4, 7, 8, 9 and 11)
1	74516961	1	PUMP ASSY., water (Consists of items 2 thru 10)
	70910948	4	CAPSCREW, 3/8"NC x 2"
	70904206	4	LOCKWASHER, 3/8"
2	74513380	1	HUB, pulley
3	74507090	1	WIRE, snap, bearing retaining
4	-----	1	BEARING ASSY. (Includes item 5)(Order REPAIR KIT 74512756)
5	74507084	1	SLINGER, water
6	74513632	1	BODY, water pump
	70920416	1	PLUG, pipe, hex-hd., brass, 1/2"NPT
7	74507091	1	SEAL ASSY., water pump (Serviced only as a unit)
8	74514799	1	IMPELLER ASSY. (Includes ceramic insert)
9	74512144	1	GASKET, pump cover
10	74512143	1	COVER, water pump
	70915813	5	CAPSCREW, 5/16"NC x 7/8"
	70904205	5	LOCKWASHER, 5/16"
11	74512212	1	□ GASKET, pump to cylinder block
12	70633382	1	BLADE ASSY., fan (Graders prior to unit #02133)
	70698026	1	BLADE ASSY., fan (Grader unit #02133 and up)
	70923124	4	CAPSCREW, 5/16"NC x 2" (Graders prior to unit #02133)
	70922286	4	CAPSCREW, 5/16"NC x 1-3/4" (Graders unit #02133 and up)
	70910286	4	LOCKWASHER, 5/16"
13	70633383	1	SPACER, fan blade (Graders prior to unit #02133)
	70698025	1	SPACER, fan blade (Grader unit #02133 and up)
14	74508486	1	PULLEY
15	-----	1	BELT, fan and alternator drive (See ALTERNATOR)

(Revised June 1977)



WATER PUMP AND FAN

T-19620

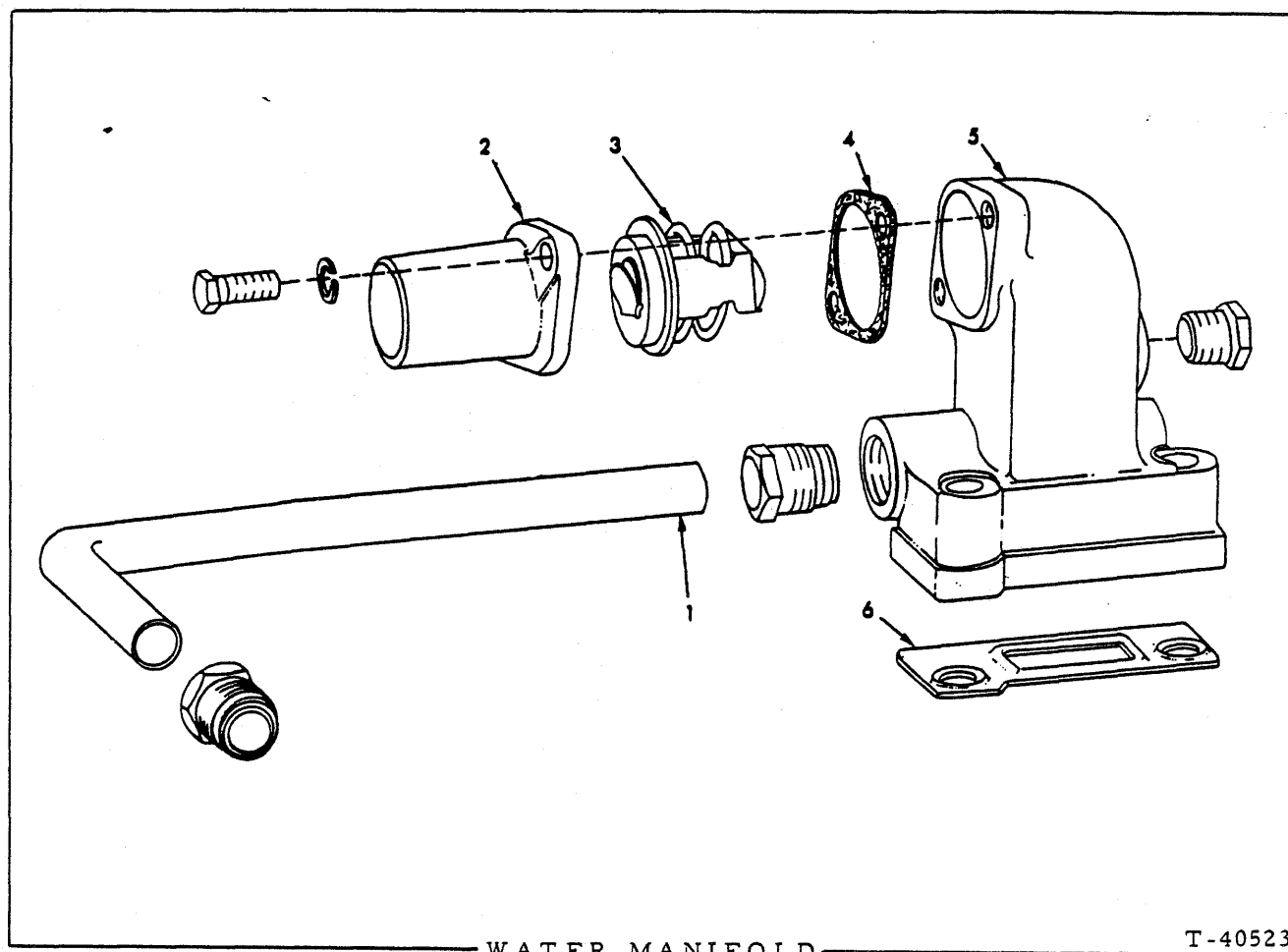
WATER PUMP AND FAN

USAGE: Gas - powered, effective serial No. 75Y00201

ITEM PART NO. QTY. DESCRIPTION

-	70250396	1	PUMP ASSY., water (Consists of all items listed below except 2, 3, 20, 21, 24 and 25)
1	70226314	1	BODY, water pump
2	70203061	1	□GASKET, pump to cylinder block
3	70230302	3	STUD, pump attaching
	70904206	3	LOCKWASHER, 3/8"
	70910324	3	NUT, 3/8"NC
4	70207824	1	□RING, clamp, water pump shaft seal
5	70230308	6	WASHER, cover capscrew
6	70210829	1	COVER, pump body
	70916284	6	CAPSCREW, 1/4"NC x 1/2"
7	70210830	1	□GASKET, pump body cover
8	70210831	1	IMPELLER, water pump
9	70207825	1	□SPRING, pump shaft seal
10	70207826	1	□GUIDE, pump shaft seal spring
11	70207823	1	□SEAL, water pump shaft (rubber)
12	70207827	1	□WASHER, pump shaft seal (carbon)
13	70207828	1	□RING, snap, impeller seal retaining
14	-----	1	PIPE, water by-pass (See WATER OUTLET CONNECTION)
15	70207822	1	BEARING ASSY., water pump (Includes shaft and slinger)
16	70207829	1	□RING, snap, pump body
17	70233697	1	HUB, pulley
18	70229840	1	FLANGE, pulley, rear half
19	70207831	1	FLANGE, pulley, front half
20	70235753	1	BLADE ASSY., fan
	70922286	4	CAPSCREW, 5/16"NC x 5/8"
	70910286	4	LOCKWASHER, 5/16"
21	70677217	1	SPACER, fan blade
22	70203135	2	WASHER, flange locking screw
23	70203141	2	SCREW, flange locking
	70904204	2	LOCKWASHER, 1/4"
	70900365	2	NUT, 1/4"NC
24	70604929	1	BELT, fan and generator driving
25	70225750	1	SEAL KIT (Includes items 2, 4, 7, 9 thru 13 and 16)(Not Illustrated)

□Components of item 25

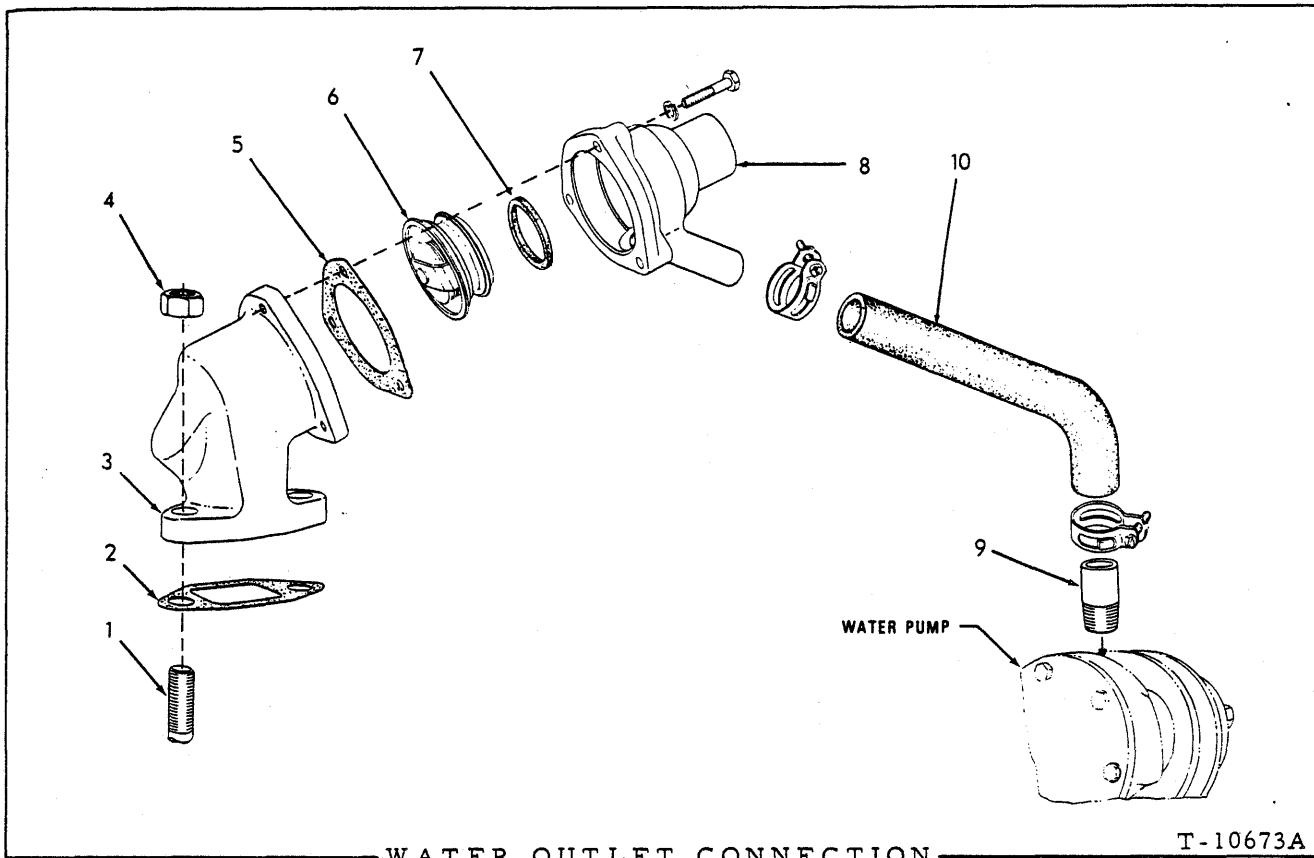


WATER MANIFOLD

T-40523

USAGE: Diesel-powered, effective Serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	74513630	1	TUBE, water by-pass
	70921331	2	NUT, hy-duty, 3/4" tube
2	74513526	1	PIPE, water outlet
	70903630	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	LOCKWASHER, 3/8"
3	74513524	1	THERMOSTAT
4	74513527	1	□GASKET, water outlet pipe
5	74513523	1	HOUSING, thermostat
	70920416	2	PLUG, pipe, hex-hd., 1/2"NPT
6	74513722	1	□GASKET, thermostat housing



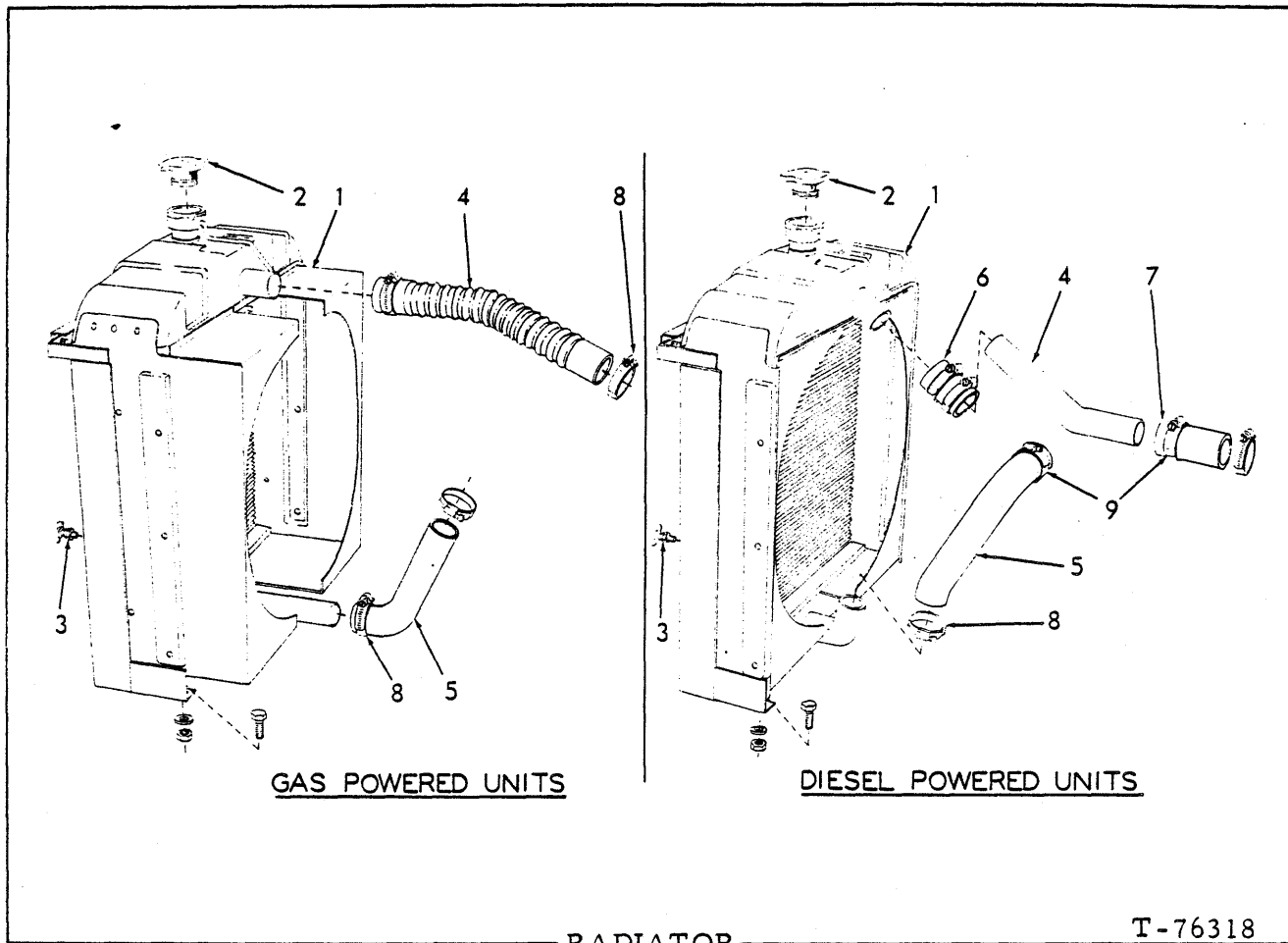
WATER OUTLET CONNECTION

T-10673A

USAGE: Gas - powered, effective serial No. 75Y00201

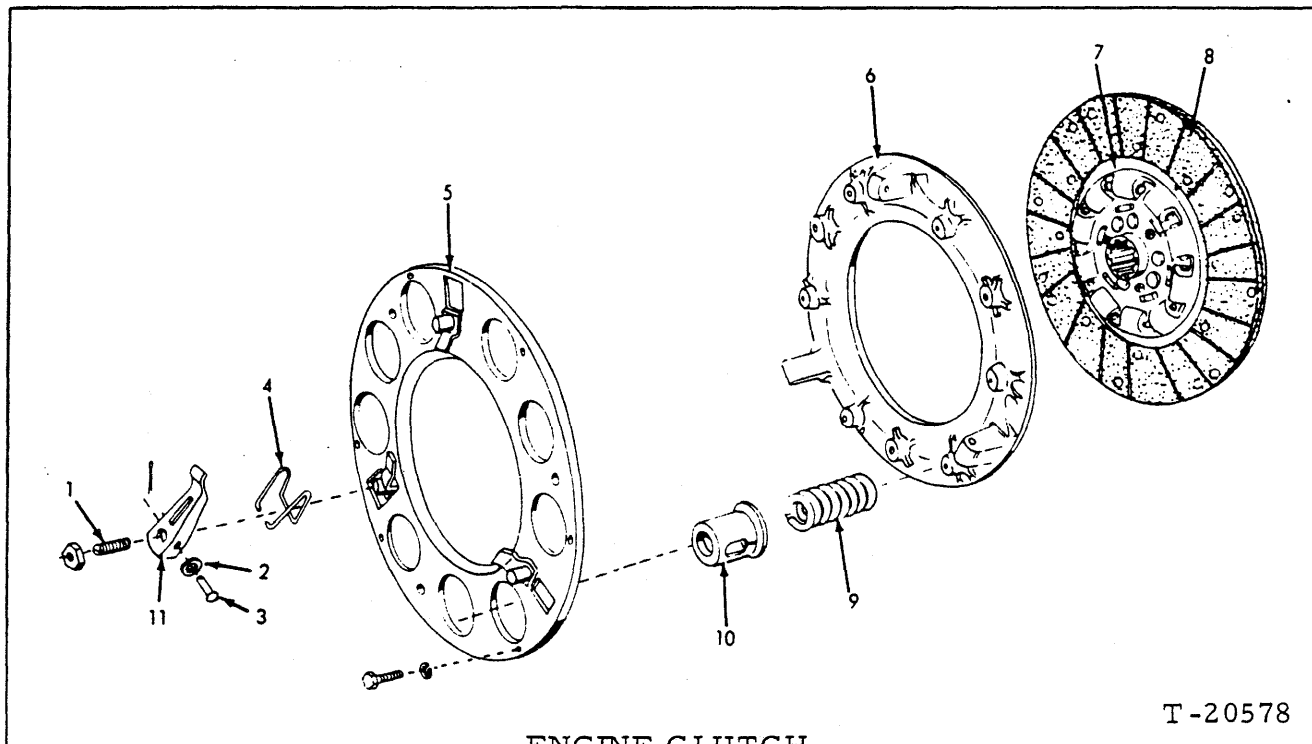
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	2	STUD (See CYLINDER HEAD)
2	70233218	1	□GASKET, thermostat cover
3	70225035	1	HOUSING, thermostat
4	-----	2	NUT (See CYLINDER HEAD)
5	70210158	1	□GASKET, thermostat cover
6	70228543	1	THERMOSTAT KIT (Includes item 7)(Opens at 160°)
7	70230643	1	□GASKET, thermostat
8	70231440	1	COVER, thermostat
	70905658	3	CAPSCREW, 1/4"NC x 1-1/4"
	70904204	3	LOCKWASHER, 1/4"
9	70226315	1	PIPE, water by-pass
10	70227018	1	HOSE, water by-pass pipe
	70911301	2	CLAMP, hose, 3/4" diam.

NOTE: See page 197 for special water by-pass pipe and hose used with Cab Heater



*Gas - powered, effective serial No 75Y00201
 **Diesel - powered, effective serial No. 24A00201,
 56Y02201

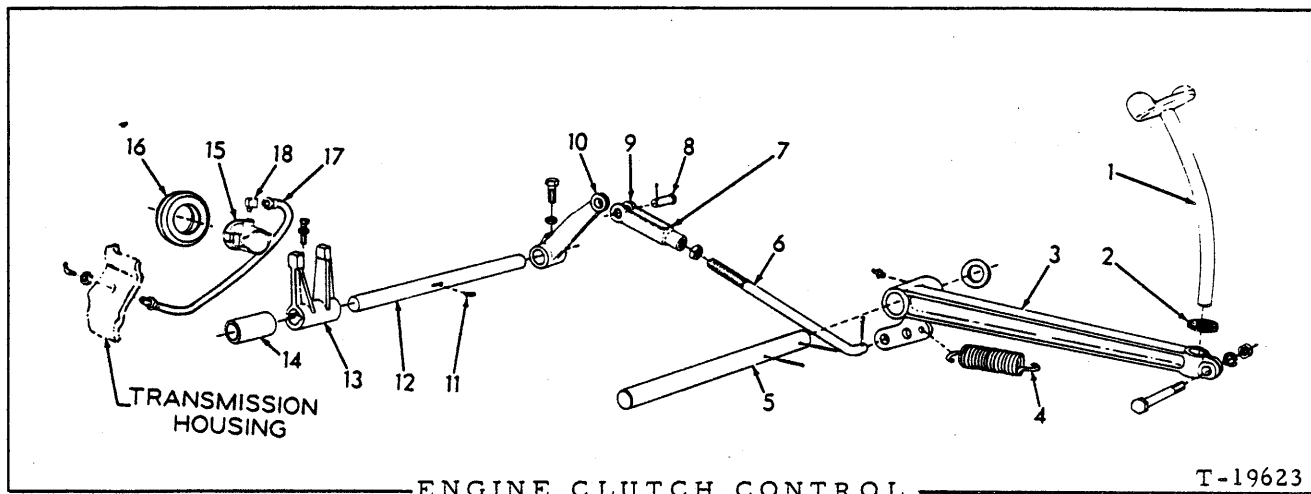
ITEM	PART NO.	QTY.	DESCRIPTION	
		* **		
1	70677333	1 -	RADIATOR ASSY.	} Includes item 2
	70675266	- 1	RADIATOR ASSY. (Graders prior to unit #02171)	
	73108226	- 1	RADIATOR ASSY. (Grader unit #02171 and up)	
	70920574	2 2	CAPSCREW, 1/2"NC x 1-3/8"	
	70677008	2 2	WASHER	
	70911028	2 2	NUT, 1/2"NC	
2	71007609	1 1	CAP, radiator	
3	70079751	1 1	COCK, drain, 1/4"NPT	
4	70677312	1 -	HOSE, upper	
	70096026	- 1	PIPE, upper	
5	70677311	1 -	HOSE, lower	
	70643036	- 1	HOSE, lower	
6	70226863	- 1	HOSE, upper	
7	70606384	- 1	HOSE, upper	
8	70921912	4 1	CLAMP, hose, 1-1/16" to 2" diam.	
9	70921913	- 5	CLAMP, hose, 1-13/16" to 2-3/4" diam.	



ENGINE CLUTCH
(Rockford)

T-20578

ITEM	PART NO.	QTY.	DESCRIPTION
-	70229344	1	PLATE ASSY., pressure (Includes items 1 thru 6 and 9 thru 11)
	70923390	6	CAPSCREW, 12 pt., 3/8"NC x 7/8" (Graders prior to unit #01684)
	70910287	6	LOCKWASHER, 3/8"
	70922262	6	CAPSCREW, 3/8"NC x 7/8" (Grader unit #01684 and up)
1	70229601	3	SCREW, release lever adjusting
	70910876	3	NUT, jam, 7/16"NF
2	70229814	3	WASHER, release lever pin
3	70229603	3	PIN, release lever
	70900942	3	PIN, cotter, 3/32" x 5/8"
4	70229604	3	SPRING, release lever
5	70229595	1	PLATE ASSY., back (Serviced only as a unit)
6	70229602	1	PLATE, pressure
7	70681436	1	DISC ASSY., driven (Includes item 8)
8	70232872	1	FACING KIT, clutch driven disc (Includes facings and RIVETS indented below)
	70233470	20	RIVET, tubular, steel, fl-hd., 3/16" x 5/16"
9	70228947	9	SPRING, pressure plate
10	70204844	9	CUP, pressure plate spring
11	70229600	3	LEVER, release



ITEM	PART NO.	QTY.	DESCRIPTION
1	70065855	1	PEDAL, clutch operating
2	70605785	1	BUMPER, clutch pedal arm (rubber)
3	70065856	1	LEVER, clutch pedal
	70912808	1	FITTING, lubricating, straight, 1/4" NF taper thd.
	70927236	1	CAPSCREW, 1/2" NF x 2"
	70912441	1	LOCKWASHER, 1/2"
	70911043	1	NUT, 1/2" NF
4	70051193	1	SPRING, pedal retracting
5	70065853	1	SHAFT, pedal lever (Standard on graders prior to unit #00642. Not for graders equipped with Wheel Brakes)
	70683925	1	SHAFT, pedal lever (Standard on graders unit #00642 and up equipped with Wheel Brakes)
	70067839	1	SHAFT, pedal lever (Special equipment on graders prior to unit #00642. For graders equipped with Wheel Brakes)
	70904381	1	PIN, cotter, 3/16" x 2-1/4"
	70911159	1	WASHER, plain, SAE std., 1"
	70900811	1	PIN, cotter, 3/16" x 1-1/2"
6	70094963	1	ROD, clutch control
	70918454	1	PIN, cotter, 1/8" x 1-1/2"
	70911049	1	NUT, jam, 5/8" NF
7	70628730	1	YOKE, control rod
8	70052671	1	PIN, control rod yoke
	70918454	1	PIN, cotter, 1/8" x 1-1/2"
9	70065854	1	LEVER, clutch shifter
10	70228248	1	SETSCREW, clutch shifter lever
	70911036	1	NUT, jam, 5/8" NC
11	70036997	1	KEY, clutch shifter shaft

(Continued)

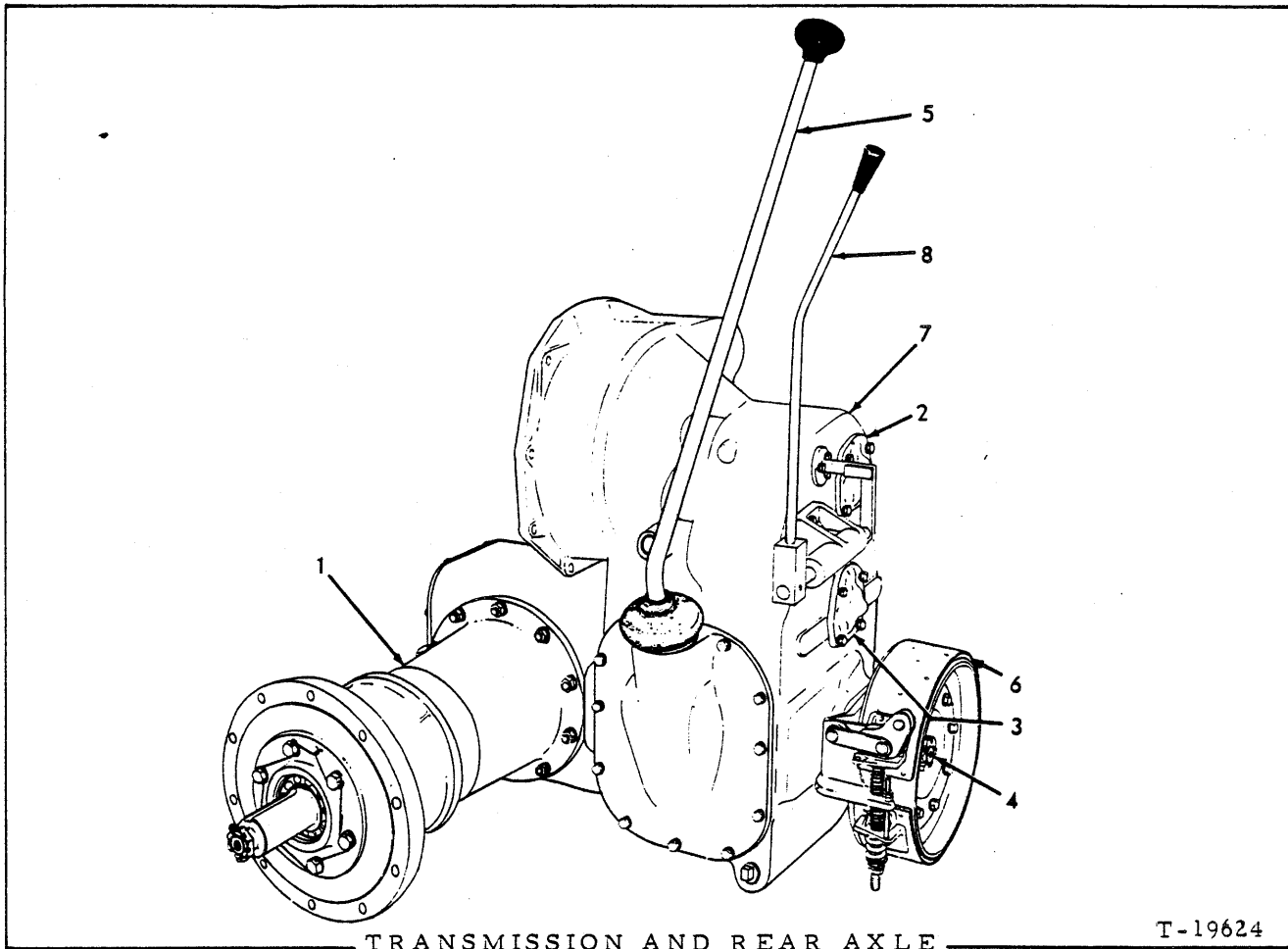
(Revised May 1976)

ENGINE CLUTCH CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
12	70065852	1	SHAFT, clutch shifter
13	70095566	1	FORK, clutch shifter
	70923192	1	CAPSCREW, 7/16" NC x 1-1/2"
	70914678	1	LOCKWASHER, 7/16"
14	70061046	2	BUSHING, clutch shifter shaft
15	{ 70241874	1	SHIFTER, clutch (Graders prior to unit #01137)
	{ 70686922	1	CARRIER, bearing (Graders unit #01137 and up)
16	{ 70235079	1	BEARING, ball, clutch shifter (Graders prior to unit #01137)
	{ 70649821	1	BEARING, ball, clutch throwout (Graders unit #01137 and up)
17	70686889	1	HOSE, bearing lubricating
	70927381	1	WASHER, plain
	70906907	1	NUT, jam, 5/8" NF
	70915273	1	FITTING, lubricating, 30°, 1/8" NPT
18	70605794	1	ELBOW, hose

Graders unit
#01137 and up

(Revised July 1973)



TRANSMISSION AND REAR AXLE

T-19624

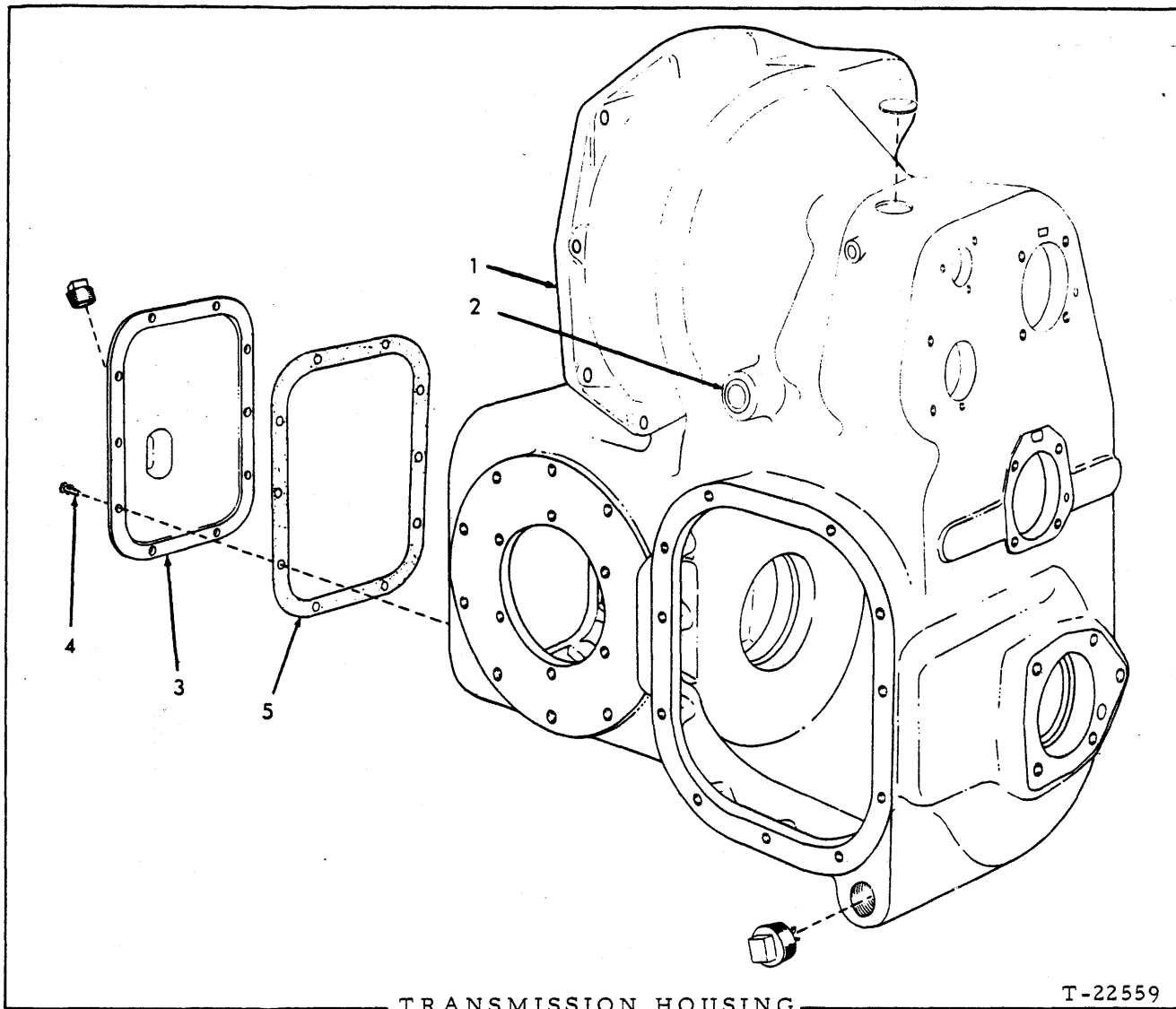
ITEM PART NO. QTY. DESCRIPTION

- | | | | |
|---|----------|---|---|
| - | 77108728 | 1 | TRANSMISSION AND REAR AXLE ASSY. (Used prior to Graders Unit No. 00647; also used on Graders Unit No. 00652 thru 00693; 00695, 00715, 00721 and units No. 00728 thru 00737) |
| - | 77113398 | 1 | TRANSMISSION AND REAR AXLE ASSY. (Effective on Graders Unit No. 00647 thru 00651; 00694 thru 00727 excluding Nos. 00695, 00715, 00721; also units No. 00738 and up) |

Each consists of items 1 thru 8

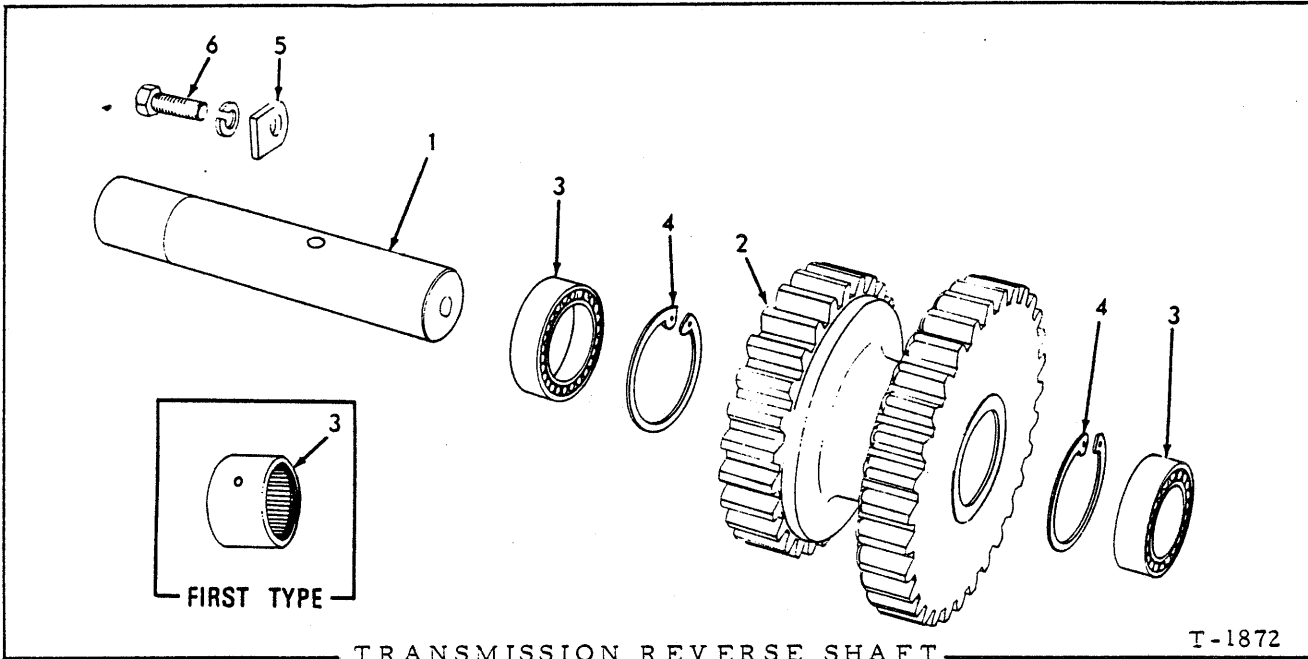
- | | | | |
|---|---------|---|--------------------------|
| 1 | ----- | - | See REAR AXLE |
| 2 | ----- | - | See TOP SHAFT |
| 3 | { ----- | - | See INTERMEDIATE SHAFT |
| | { ----- | - | See REVERSE SHAFT |
| 4 | ----- | - | See PINION SHAFT |
| 5 | ----- | - | See GEAR SHIFT |
| 6 | ----- | - | See BRAKE |
| 7 | ----- | - | See TRANSMISSION HOUSING |
| 8 | ----- | - | See DIRECTIONAL CONTROL |

(Revised October 1973)



ITEM	PART NO.	QTY.	DESCRIPTION
1	77109089	1	HOUSING ASSY., transmission (Includes item 2)(Used prior to graders unit No. 00647; also used on graders unit No. 00652 thru 00693, 00695, 00715, 00721 and units No. 00728 thru 00737)
	77113400	1	HOUSING ASSY., transmission (Includes item 2)(Effective on graders unit No. 00647 thru 00651; 00694 thru 00727 excluding Nos. 00695, 00715, 00721; also units No. 00738 and up)
	77118363	1	PLUG, expansion (Late units)
	74612178	1	PLUG, drain, 1"NPT (magnetic)
2	-----	2	BUSHING, transmission housing (See ENGINE CLUTCH CONTROL)
3	70059931	1	PLATE, cover, rear
	70912768	1	PLUG, pipe, 1"NPT
4	70922763	10	CAPSCREW, 3/8"NC x 1"
	70910287	10	LOCKWASHER, 3/8"
5	70059932	1	GASKET, rear cover plate

(Revised October 1973)

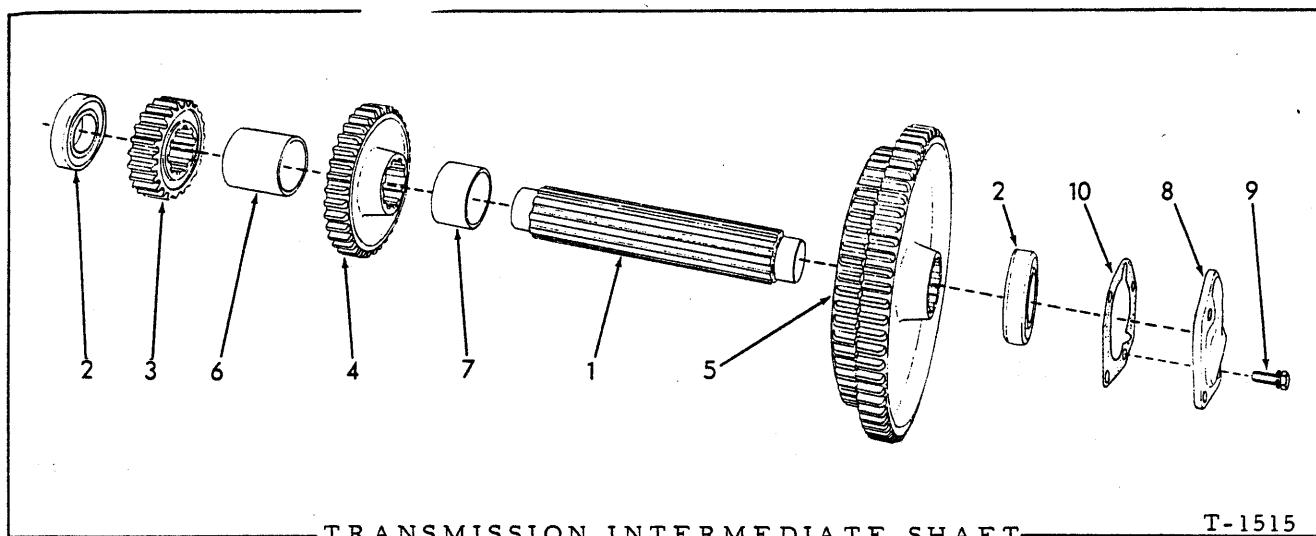


* Used prior to Graders Unit No. 00647; also used on Graders Unit No. 00652 thru 00693, 00695, 00715, 00721 and Units No. 00728 thru 00737.

** Effective on Graders Unit No. 00647 thru 00651; 00694 thru 00727 excluding Nos. 00695, 00715, 00721; also Units No. 00738 and up.

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	77109015	1 -	SHAFT (1-1/4" diam.)
	77113401	- 1	SHAFT (1" diam.)
2	77125423	1 -	GEAR (26 and 31 teeth) (1-1/2" hole diam.)
	77113404	- 1	GEAR (26 and 31 teeth) (2-7/16" hole diam.)
3	70604435	2 -	BEARING, needle, reverse gear
	77113402	- 2	BEARING, roller, reverse gear
4	77113403	- 2	RING, snap
5	70059939	1 1	LOCK, reverse gear shaft
6	70922763	1 1	CAPSCREW, 3/8" NC x 1"
	70910287	1 1	LOCKWASHER, 3/8"

(Revised October 1973)

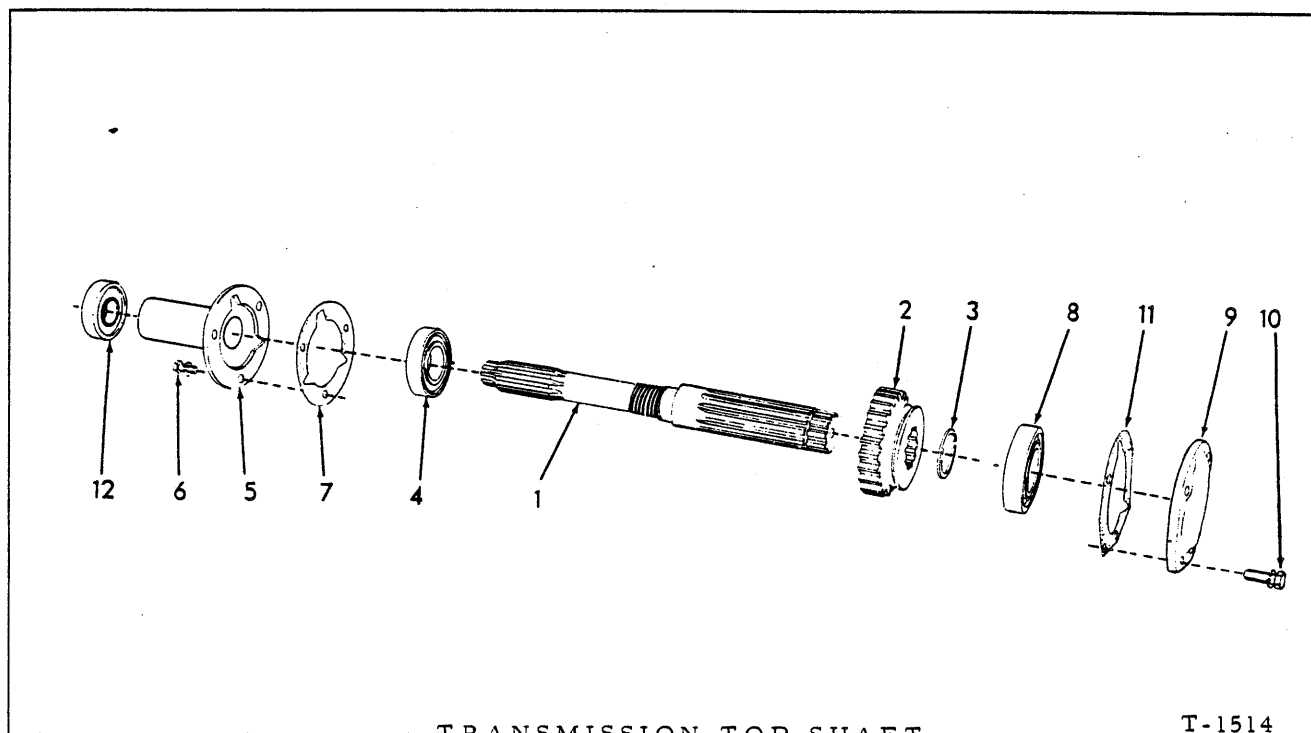


TRANSMISSION INTERMEDIATE SHAFT

T-1515

ITEM	PART NO.	QTY.	DESCRIPTION
1	70059930	1	SHAFT
2	70698633	2	BEARING, ball
3	77125419	1	GEAR (20 teeth)
4	70059962	1	GEAR (34 teeth)
5	77125421	1	GEAR (53 and 64 teeth)
6	70059927	1	SPACER, gear (2-15/32" long)
7	70059961	1	SPACER, gear (1-3/8" long)
8	70059955	1	*CAP, front bearing
9	70922763	4	*CAPSCREW, 3/8"NC x 1"
	70910287	4	*LOCKWASHER, 3/8"
10	70059956	1	GASKET, front bearing cap

*Not used with Auxiliary Creeper Transmission.

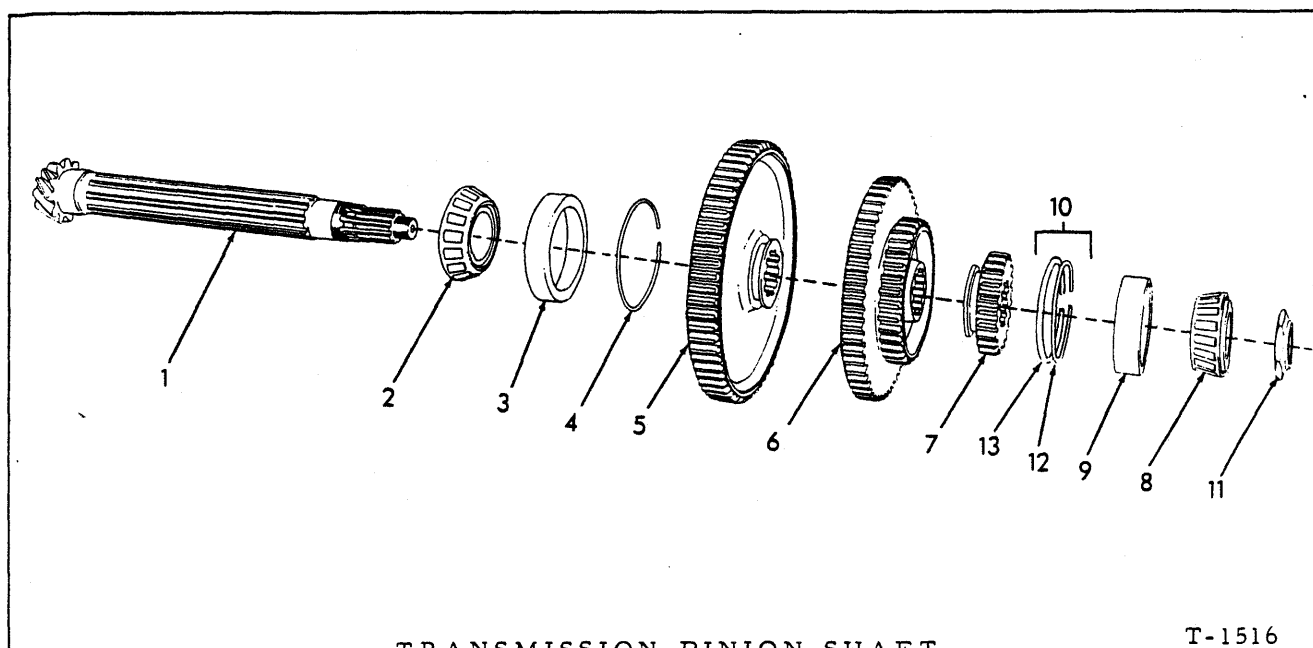


TRANSMISSION TOP SHAFT

T-1514

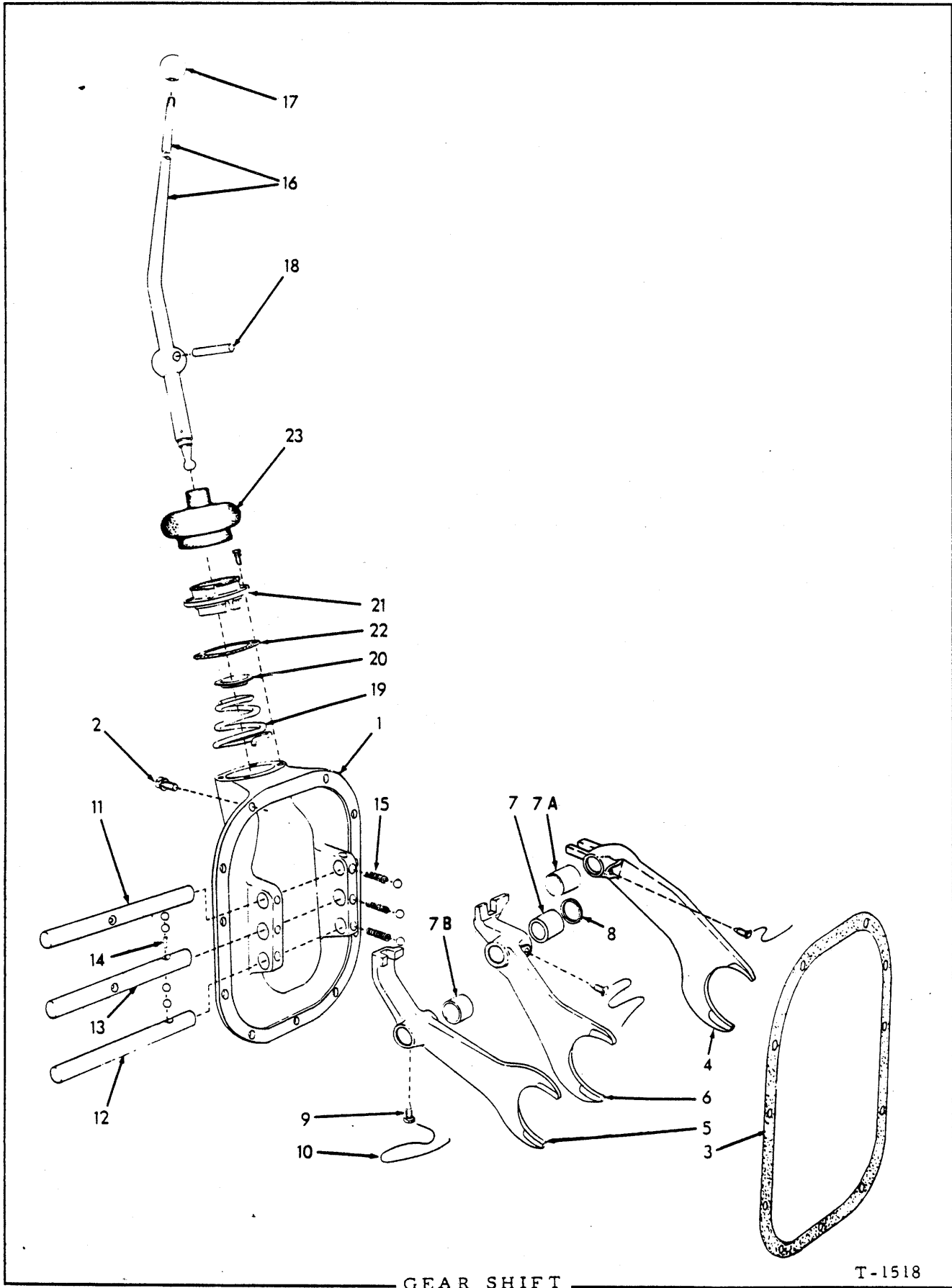
ITEM	PART NO.	QTY.	DESCRIPTION
1	77125424	1	*SHAFT
2	77109018	1	*GEAR (24 teeth)
3	77118331	1	*RING, snap, gear retaining
4	74253907	1	BEARING, ball, intermediate
5	70096789	1	CAP, intermediate bearing
6	70922763	3	CAPSCREW, 3/8"NC x 1"
	70910287	3	LOCKWASHER, 3/8"
7	70059923	1	GASKET, intermediate bearing cap
8	70698633	1	*BEARING, ball, front
9	70059955	1	*CAP, front bearing
10	70922763	4	*CAPSCREW, 3/8"NC x 1"
	70910287	4	*LOCKWASHER, 3/8"
11	70059956	1	GASKET, front bearing cap
12	70226859	1	BEARING, ball, rear (In flywheel)

*Not used with auxiliary Creeper Transmission.



ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	SHAFT, pinion (Serviced only with matched bevel gear. Order GEAR SET 70077951)
2	70059934	1	CONE ASSY., pinion shaft bearing, rear
3	70059935	1	CUP, pinion shaft bearing, rear
4	70059936	1	RING, snap, rear pinion shaft bearing
5	77125420	1	GEAR (67 teeth)
6	70059942	1	GEAR (53 and 34 teeth)
7	70059943	1	GEAR (23 teeth)
8	70059954	1	CONE ASSY., pinion shaft bearing, front
9	70066741	1	CUP, pinion shaft bearing, front
10	70699169	1	RING KIT (Includes items 12 and 13)
11	70059946	1	NUT, adjusting, front pinion shaft bearing
12	70699095	1	RING, snap (.064" thick)
13	70699096	2	RING, snap (.072" thick)

See item 10.
Use as required



GEAR SHIFT

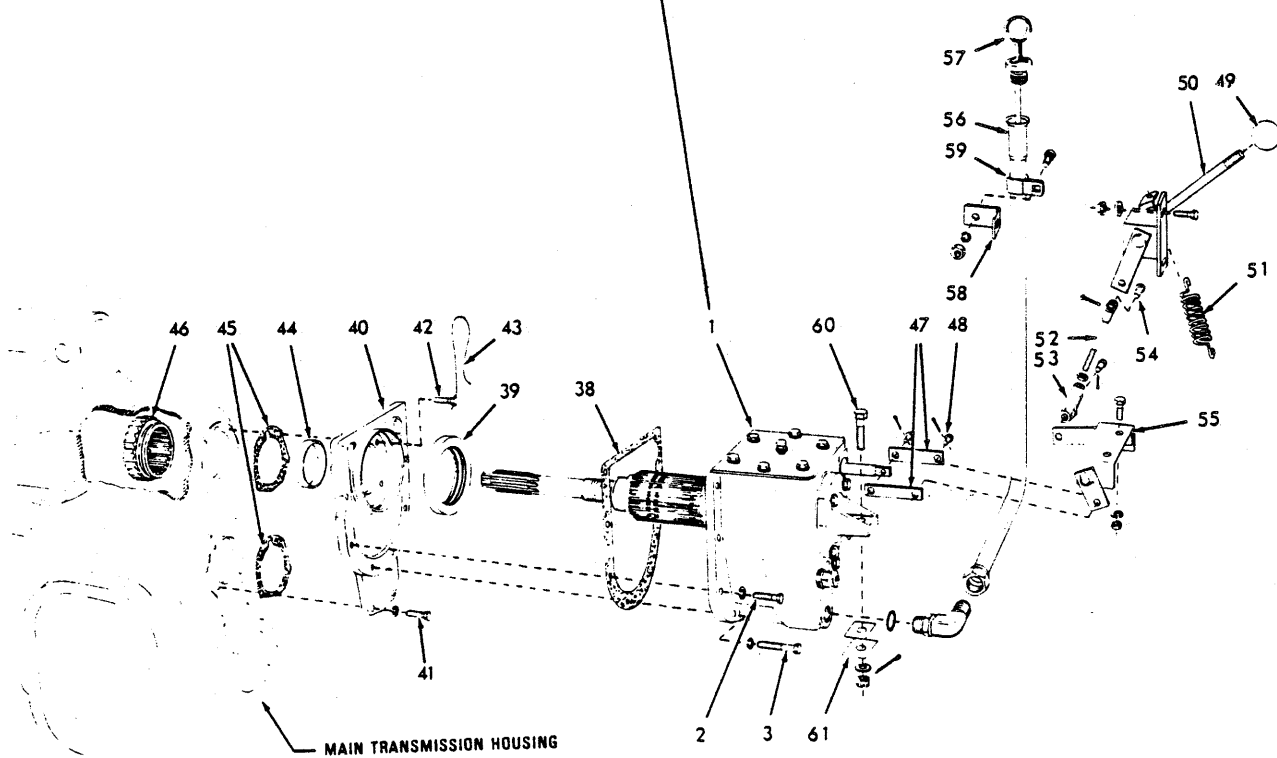
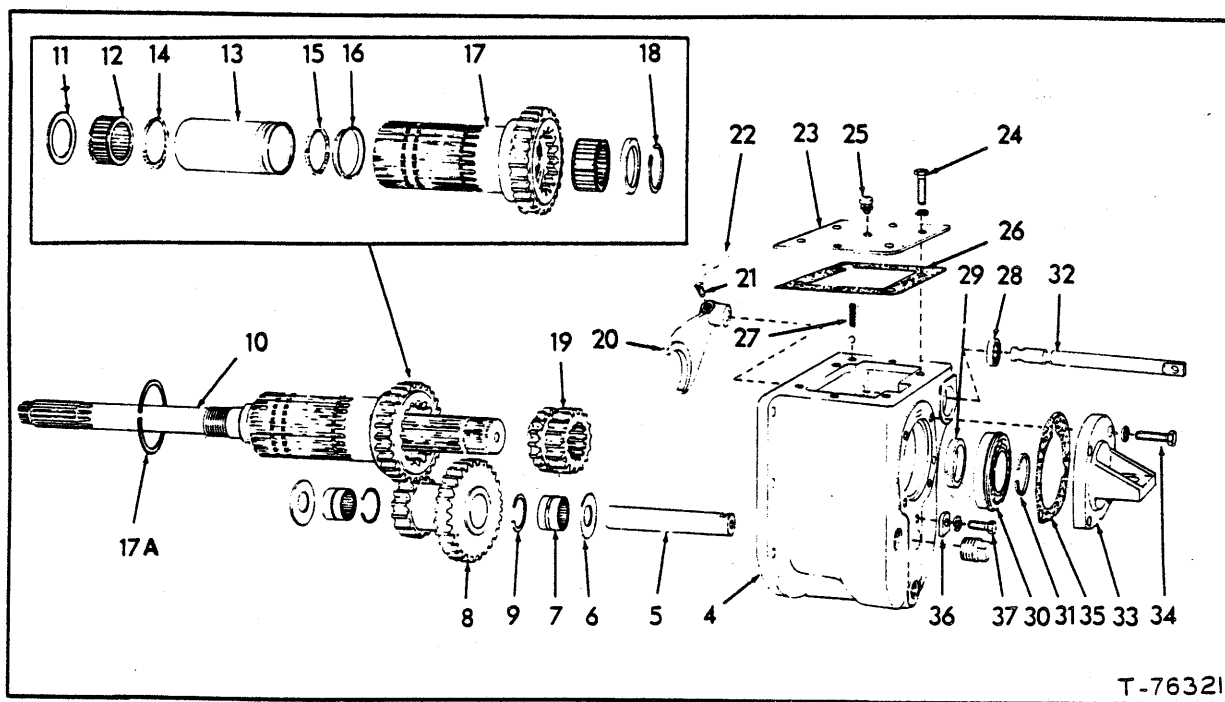
T-1518

(Revised October 1973)

GEAR SHIFT

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70059976	1	COVER, gear shift	
2	70922763	11	CAPSCREW, 3/8"NC x 1"	
	70910287	11	LOCKWASHER, 3/8"	
3	70059977	1	GASKET, gear shift cover	
4	70059989	1	FORK, first and reverse	
5	70059986	1	FORK, second and third	
6	70059988	1	FORK, fourth	
7	70068922	1	SPACER, shifting fork, fourth gear	
7A	77114841	1	SPACER, shifting fork, first and reverse gear	} Late units
7B	77114842	1	SPACER, shifting fork, second and third gear	
8	70097464	2	WASHER, spacing (Use as required)	
9	70202864	3	SETSCREW, shifting fork	
10	70023633	3	WIRE, locking, 1/16" x 12"	
11	70059990	1	ROD, gear shifting, first and reverse	
12	70059985	1	ROD, gear shifting, second and third	
13	70059987	1	ROD, gear shifting, fourth	
14	70059996	1	PIN, interlocking, shifting rod	
	70905361	4	BALL, steel, 7/16" diam.	
15	70059994	3	SPRING, shifting rod interlock	
	70905361	3	BALL, steel, 7/16" diam.	
16	77110421	1	LEVER, shifting	
17	70091862	1	KNOB, shifting lever	
18	70059993	1	PIN, shifting lever	
19	70059991	1	SPRING, shifting lever	
20	70059992	1	WASHER, shifting lever spring	
21	70073303	1	RETAINER, shifting lever	
	70915343	4	CAPSCREW, 1/4"NC x 5/8"	
	70910285	4	LOCKWASHER, 1/4"	
22	70059965	1	GASKET, gear shifting lever retainer	
23	70069920	1	BOOT, gear shifting lever	

(Revised October 1973)



AUXILIARY CREEPER TRANSMISSION

T-76320

AUXILIARY CREEPER TRANSMISSION

USAGE: Special equipment. Provides additional range of speeds one-third of standard

ITEM	PART NO.	QTY.	DESCRIPTION
1	70685887	1	TRANSMISSION ASSY., auxiliary (Consists of items 4 thru 37)
2	70921076	5	CAPSCREW, 3/8"NC x 1-1/4"
3	70920995	2	CAPSCREW, 3/8"NC x 2"
	70910287	7	LOCKWASHER, 3/8"
4	70677997	1	HOUSING transmission
	70912726	1	PLUG, pipe, 3/4"NPT
5	70088162	1	SHAFT, bottom
6	70098571	2	WASHER, bottom shaft
7	70676118	2	BEARING, roller, bottom shaft gear
8	70674802	1	GEAR, bottom shaft
9	70095868	2	RING, snap, bottom shaft gear
10	70677821	1	SHAFT, top
11	70088513	2	WASHER, top shaft
12	70508828	2	BEARING, roller, top shaft gear
13	70677820	1	SPACER, top shaft gear bearing
14	70654803	1	O-RING, bearing spacer (outer)
15	70654804	1	O-RING, bearing spacer (inner)
16	70650510	1	RING, bearing spacer
17	70685885	1	GEAR, top shaft
17A	70090485	1	RING, snap (Effective March 1975)
18	70050293	1	RING, snap, top shaft
19	70674803	1	GEAR, sliding, top shaft
20	70088163	1	FORK, shifting
21	70202864	1	SETSCREW
22	70023633	1	WIRE, locking, 1/16" x 12"
23	70677993	1	COVER, top
24	70922300	6	CAPSCREW, 3/8"NC x 3/4"
	70910287	6	LOCKWASHER, 3/8"
25	70634161	1	VENT, filler pipe
26	70088164	1	GASKET, top cover
27	70224925	1	SPRING, shifting fork shaft locking ball
28	70088778	1	SEAL, oil, shifting fork shaft
29	70088514	1	WASHER, bearing spacing

(Continued)

(Revised June 1975)

AUXILIARY CREEPER TRANSMISSION (Continued)

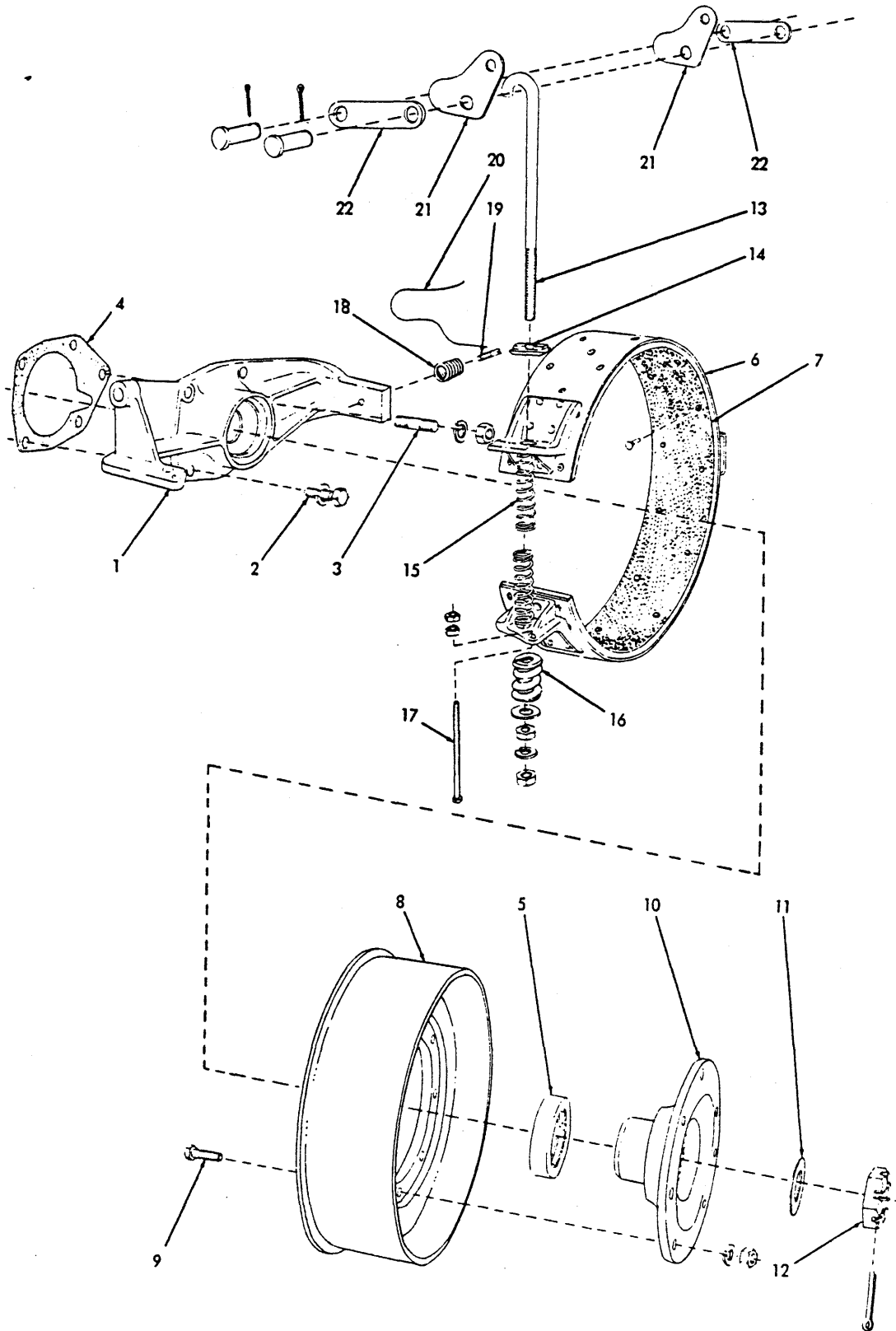
ITEM	PART NO.	QTY.	DESCRIPTION
30	70088551	1	BEARING, ball, top shaft
31	70051344	1	RING, snap, top shaft
32	70088154	1	SHAFT, shifting fork
	70905360	1	BALL, steel, 3/8" diam.
33	70088153	6	CAP, top shaft
34	70921076	4	CAPSCREW, 3/8"NC x 1-1/4"
	70910287	4	LOCKWASHER, 3/8"
35	70088152	1	GASKET, top shaft cap
36	70059939	1	LOCK, bottom shaft
37	70922763	1	CAPSCREW, 3/8"NC x 1"
	70910287	1	LOCKWASHER, 3/8"
38	70088150	1	GASKET, auxiliary transmission to adapter
39	70654805	1	SEAL, oil (5/8" wide)
40	70686277	1	ADAPTER ASSY. (Includes item 44)
41	70921076	2	CAPSCREW, 3/8"NC x 1-1/4"
	70910287	2	LOCKWASHER, 3/8"
42	70929069	4	CAPSCREW, drilled-hd., 3/8"NC x 1"
43	70023756	1	WIRE, locking, 1/16" x 26"
44	70686114	1	SLEEVE, pilot
45	70059956	2	GASKET, adapter to main transmission housing
46	70677822	1	GEAR, coupling (24 teeth)
47	70089668	2	LINK, control
48	70627451	2	PIN, control link
	70900942	2	PIN, cotter, 3/32" x 5/8"
49	70091862	1	KNOB, control rod
50	70678003	1	BRACKET AND LEVER, control (upper)
	70927173	2	CAPSCREW, 3/8"NC x 1-1/8"
	70677006	2	WASHER, plain
	70911026	2	NUT, 3/8"NC
51	70634503	1	SPRING
52	70678017	1	ROD, control
	70911048	1	NUT, jam, 3/8"NF
53	70628736	1	YOKE, control rod

(Continued)

(Revised May 1978)

AUXILIARY CREEPER TRANSMISSION (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
54	70078810	2	PIN, control rod
	70900942	2	PIN, cotter, 3/32" x 5/8"
55	70678001	1	BRACKET AND LEVER, control (lower)
	70922763	2	CAPSCREW, 3/8"NC x 1"
	70910287	2	LOCKWASHER, 3/8"
	70911026	2	NUT, 3/8"NC
56	70674034	1	TUBE ASSY., dipstick (Includes item 57)
	70924026	1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-1/16"NF male end (Includes washer, nut and O-RING)
	70921206	1	O-RING, elbow
57	70678590	1	DIPSTICK, oil level
58	70678018	1	ANGLE, tube supporting
59	70621451	1	CLIP, tube supporting
	70922300	1	CAPSCREW, 3/8"NC x 3/4"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
60	70012466	1	CAPSCREW, transmission mounting
	70910244	1	WASHER, plain, SAE std., 1/2"
	70910867	1	NUT, slotted, 1/2"NF
	70910147	1	PIN, cotter, 3/32" x 1-1/8"
61	70059832	8	SHIM, alignment (Use as required)

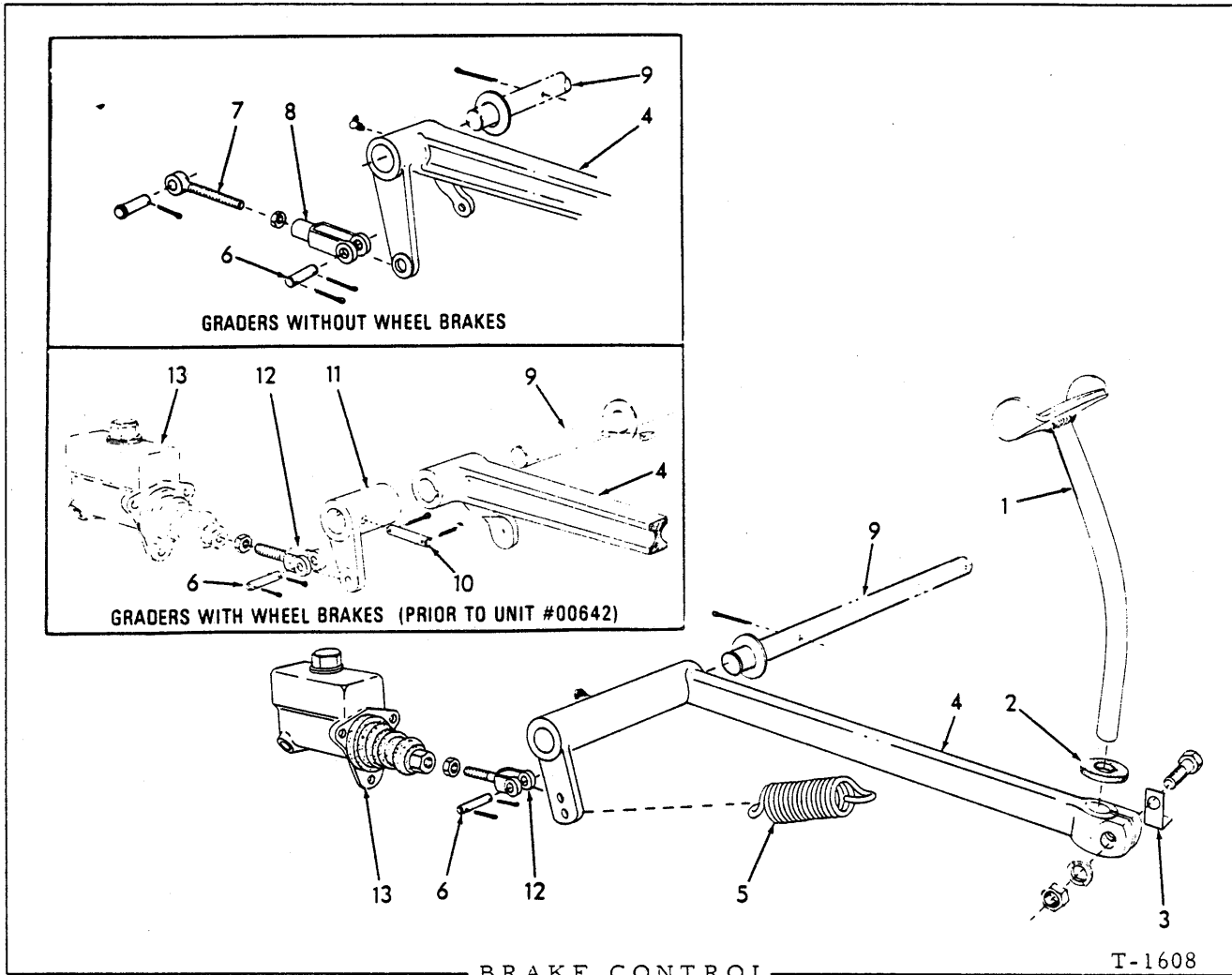


TRANSMISSION BRAKE

T-1517

TRANSMISSION BRAKE

ITEM	PART NO.	QTY.	DESCRIPTION
1	70059945	1	BRACKET, mounting
2	70920582	4	CAPSCREW, 1/2"NC x 1-1/4"
	70912441	4	LOCKWASHER, 1/2"
3	70059982	1	STUD (1/2" diam.)
	70912441	1	LOCKWASHER 1/2"
	70911043	1	NUT, 1/2"NF
4	70059944	1	GASKET, mounting bracket
5	70059947	1	SEAL, oil, mounting bracket
6	70059948	1	BAND ASSY. (Includes item 7)
7	70066856	1	LINING, band
	70911004	28	RIVET, tubular, brass, flat-hd., 9/64" x 3/8"
8	70059949	1	DRUM, brake
9	70923193	8	CAPSCREW, 3/8"NF x 1-1/4"
	70910287	8	LOCKWASHER, 3/8"
	70911041	8	NUT, 3/8"NF
10	70059951	1	FLANGE, drum mounting
11	70059953	1	WASHER, flange retaining
12	70059952	1	NUT, slotted
	70900808	1	PIN, cotter, 1/8" x 1-1/2"
13	70059974	1	BOLT, band adjustment
	70910244	2	WASHER, plain, SAE std., 1/2"
	70914678	1	LOCKWASHER, 7/16"
	70914879	2	NUT, jam, 7/16"NC
14	70059973	1	SHOE, cam lever
15	70059975	2	SPRING, band expanding
16	70059979	1	SPRING, band adjustment bolt
17	70059978	1	SCREW, band supporting
	70911024	2	NUT, 1/4"NC
18	70059981	1	SPRING, band centering
19	70059980	1	SCREW, band centering
20	70023633	1	WIRE, locking, 1/16" x 12"
21	70059969	2	LEVER, cam (When special Wheel Brakes are installed this part is assembled in reverse of position illustrated)
22	70059971	2	LINK, operating (Not used when grader is equipped with special Wheel Brakes)
	70083122	2	LINK, operating (For graders with special Wheel Brakes)
	70917648	2	PIN, yoke, 1/2" diam.
	70900806	2	PIN, cotter, 1/8" x 1"



BRAKE CONTROL

T-1608

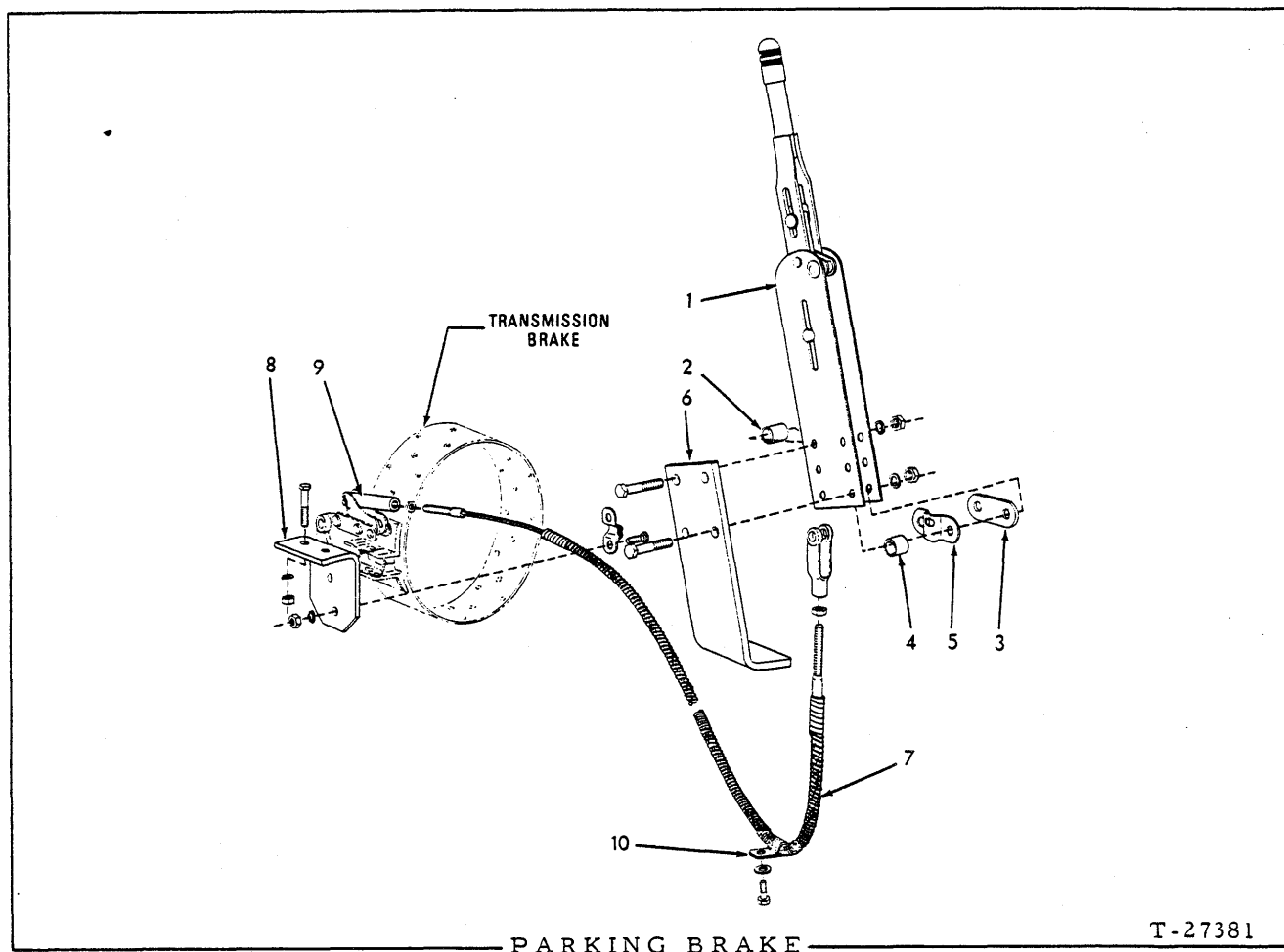
*Graders not equipped with Wheel Brakes
 **Graders equipped with Wheel Brakes

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	70065855	1 1	PEDAL, operating lever
2	70605785	1 1	BUMPER, pedal (rubber)
3	70068372	1 1	ANGLE, operating, stop light switch
4	70065857	1 -	LEVER, operating pedal
	70915019	1 -	FITTING, lube, 90°, 1/4"NF taper thd.
4	70067849	- 1	LEVER, operating pedal (Graders prior to unit #00642)
	70683901	- 1	LEVER, operating pedal (Graders unit #00642 and up)
	70915019	- 1	FITTING, lubricating, 90°, 1/4"NF taper thd.
	70911159	1 1	WASHER, plain, SAE std., 1"
	70900811	1 1	PIN, cotter, 3/16" x 1-1/2"
	70927236	1 1	CAPSCREW, 1/2"NF x 2"
	70912441	1 1	LOCKWASHER, 1/2"
	70911043	1 1	NUT, 1/2"NF
	70905126	- 1	KEY, #15 woodruff, 1/4" x 1"

(Continued)

BRAKE CONTROL (Continued)				
ITEM	PART NO.	QTY.		DESCRIPTION
		*	**	
5	70051193	1	1	SPRING, pedal lever retracting
6	70605983	1	1	PIN, adjusting yoke
	70900801	2	2	PIN, cotter, 3/32" x 3/4"
7	70080704	1	-	EYE-BOLT, brake operating
	70911048	1	-	NUT, jam, 3/8"NF
	70078810	1	-	PIN, yoke, 3/8" diam.
	70900801	1	-	PIN, cotter, 3/32" x 3/4"
8	70604718	1	-	YOKE, adjusting
9	-----	1	1	SHAFT (See ENGINE CLUTCH CONTROL)
10	70601935	-	1	PIN, lever retaining
	70900805	-	1	PIN, cotter, 1/8" x 1"
11	70067840	-	1	LEVER, operating, master cylinder
12	70067834	-	1	YOKE, operating, master cylinder
	70911042	-	1	NUT, 7/16"NF
13	-----	-	1	MASTER CYLINDER (See WHEEL BRAKES)

} Graders prior to
unit #00642



USAGE: Special Equipment

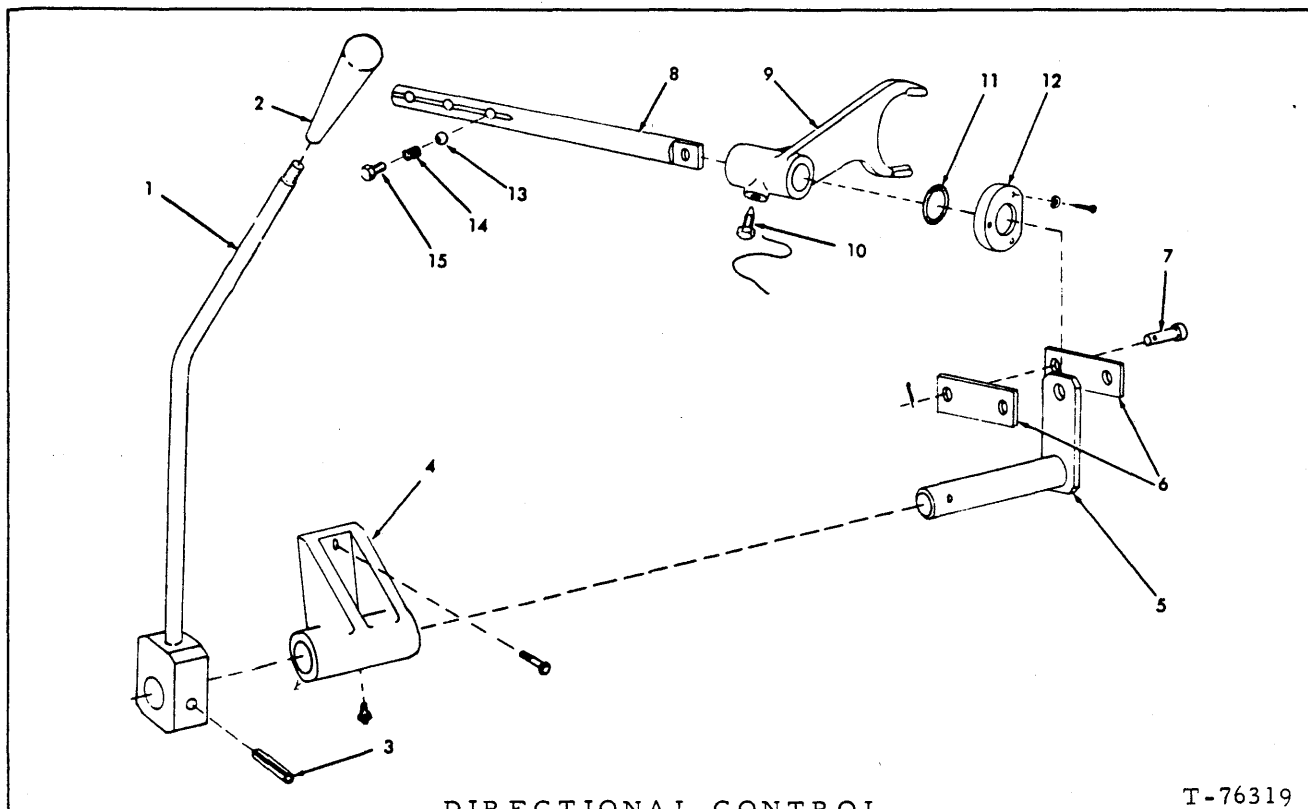
ITEM	PART NO.	QTY.	DESCRIPTION
1	70083850	1	LEVER ASSY., operating (Serviced only as a unit)
	70923124	4	CAPSCREW, 5/16"NC x 2"
	70910286	4	LOCKWASHER, 5/16"
	70911025	4	NUT, 5/16"NC
2	70083847	2	SPACER, lever mounting (1" long)
3	70083851	1	SPACER, cable clamp
4	70083849	2	SPACER, lever mounting (1/2" long)
5	70083848	2	CLAMP, cable supporting
	70914392	-	CAPSCREW, 5/16"NC x 1"
	70927373	2	CAPSCREW, 5/16"NC x 7/8"
	70910286	2	LOCKWASHER, 5/16"
	70911025	2	NUT, 5/16"
6	70083653	1	BRACKET, lever mounting (Welded to frame)
7	77109935	1	CABLE ASSEMBLY (Includes housing)
	70628736	1	YOKE, rod end (adjustable, 3/8"NF)
	70911048	1	NUT, jam 3/8"NF

(Continued)

PARKING BRAKE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70083654	1	BRACKET, cable supporting
	70920660	2	CAPSCREW, 5/16"NC x 1-1/2"
	70910286	2	LOCKWASHER, 5/16"
	70911025	2	NUT, 5/16"NC
9	70083652	1	LINK, operating cable
	70078810	1	PIN, yoke (3/8" diam.)
	70900801	1	PIN, cotter, 3/32" x 3/4"
10	70094527	2	CLIP, cable supporting
	70927484	2	CAPSCREW, 3/8"NC x 1/2"
	70911115	2	WASHER, plain. SAE std., 3/8"

M E M O

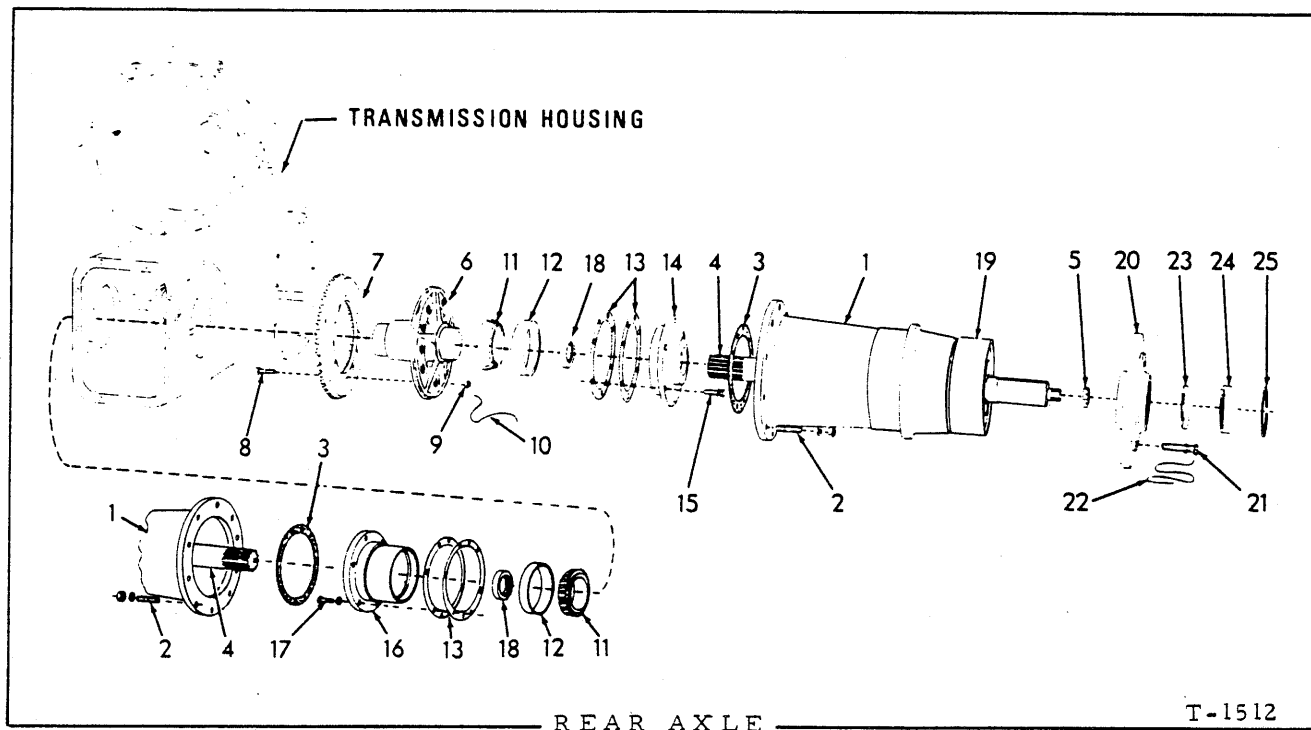


DIRECTIONAL CONTROL

T-76319

ITEM	PART NO.	QTY.	DESCRIPTION
1 {	77110411	1	LEVER, shifting (First type. Used prior to June 1971)
	77112070	1	LEVER, shifting (Second type. Effective June 1971)
2	77110365	1	KNOB, shifting lever
3	70915523	1	PIN, spring
4 {	77109023	1	BRACKET (First type. Used prior to June 1971)
	77112069	1	BRACKET (Second type. Effective June 1971)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT (For second type BRACKET only)
	70916272	2	SCREW, 3/8"NC x 1-1/4"
5 {	77109020	1	SHAFT, shifting (4-1/2" lever)(Used prior to June 1971)
	77112071	1	SHAFT, shifting (6" lever)(Effective June 1971)
6	77109019	2	LINK, shifting shaft
7	70917646	2	PIN, shifting link
	70912364	2	PIN, cotter, 3/32" x 3/4"
8	77109016	1	SHAFT, shifting fork
9	77109017	1	FORK, shifting
10	70202864	1	SCREW, shifting fork
	70023633	1	WIRE, locking, 1/16" x 12"
11	77125234	1	O-RING
12	77109014	1	CAP
	70916282	3	SCREW, 1/4"NC x 7/8"
	70910285	3	LOCKWASHER, 1/4"
13	70905361	1	BALL, steel
14	70059994	1	SPRING
15	70920603	1	SCREW, 1/2"NF x 1-1/8"

(Revised October 1973)



T-1512

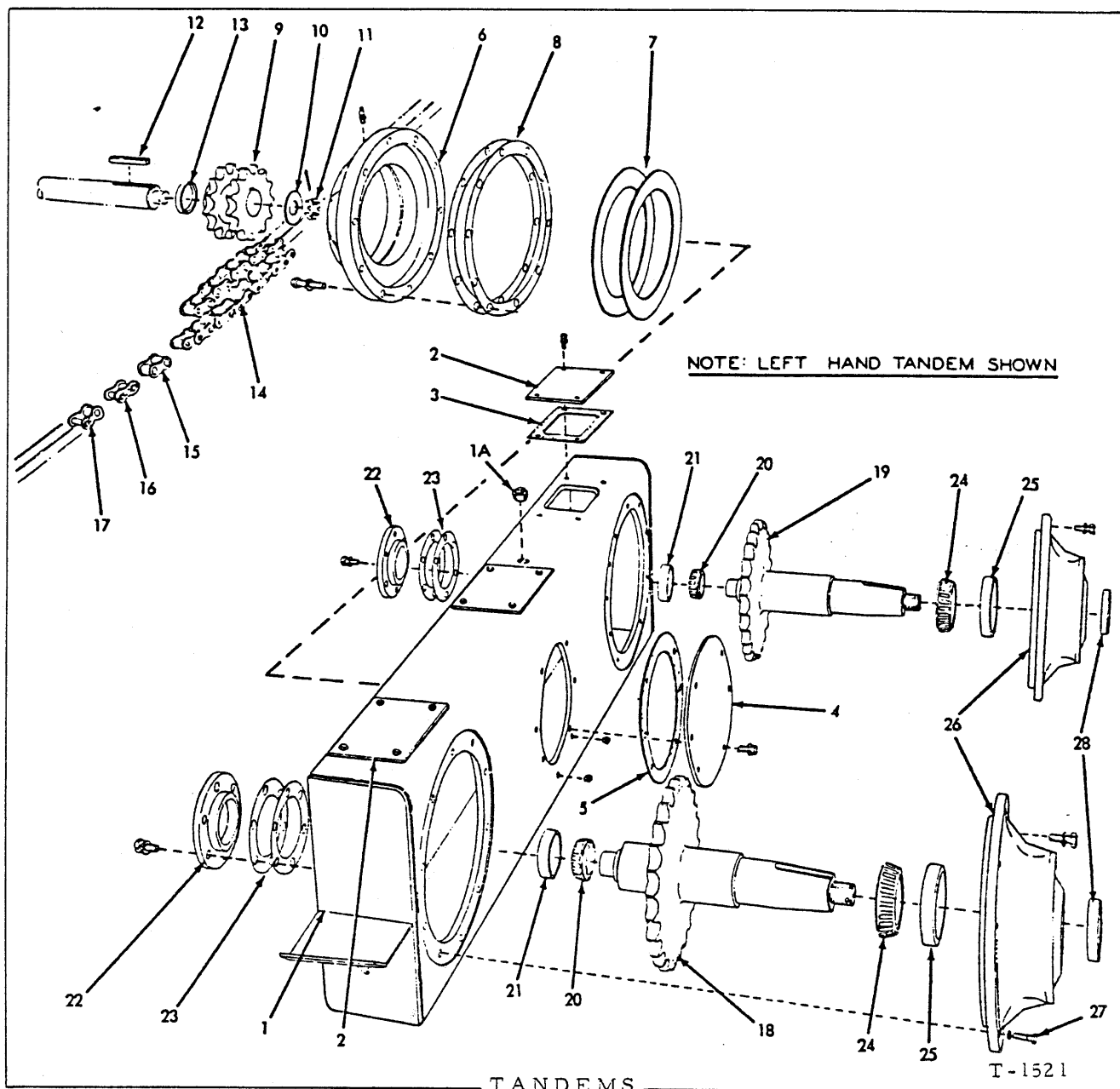
ITEM	PART NO.	QTY.	DESCRIPTION
1	70076382	2	HOUSING
2	70059914	20	STUD (1/2" diam.)
	70912441	20	LOCKWASHER, 1/2"
	70911043	20	NUT, 1/2" NF
3	77113071	2	GASKET, housing
4	73107899	2	SHAFT
5	-----	-	NUT, shaft (See TANDEMS)
6	70059921	1	HUB, bevel gear
7	-----	1	GEAR, bevel (Serviced only with matched pinion shaft. Order GEAR SET 70077951)
8	70063994	12	CAPSCREW, drilled end, 7/16" NF x 1-1/2"
9	70063995	12	NUT, castle, 7/16" NF
10	70023633	6	WIRE, locking, 1/16" x 12"
11	70210732	2	CONE ASSY., bevel gear hub bearing
12	70061090	2	CUP, bevel gear hub bearing
13	70059915	4	SHIM, bearing adjusting (.010" thick. Use as required)
	70067276	2	SHIM, bearing adjusting (.007" thick. Use as required)
	70059916	4	SHIM, bearing adjusting (.004" thick. Use as required)
14	70059922	1	CAGE, bevel gear hub right bearing
15	70921569	6	CAPSCREW, 7/16" NC x 1-1/4"
	70914678	6	LOCKWASHER, 7/16"

(Continued)

(Revised September 1976)

R E A R A X L E (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
16	70059917	1	CAGE, bevel gear hub left bearing
17	70921569	6	CAPSCREW, 7/16" NC x 1-1/4"
	70914678	6	LOCKWASHER, 7/16"
18	70068513	2	SEAL, oil, bearing cage
19	70054297	2	BUSHING, housing
20	70076381	2	CAP, housing end
21	70041266	12	CAPSCREW, 5/8" NC x 2"
	70912942	12	LOCKWASHER, 5/8"
22	70023765	2	WIRE, locking, 1/16" x 26"
23	70054295	2	SEAL, oil, housing end cap
24	73107208	2	BEARING, ball, housing end cap
25	70054296	2	RING, snap, housing end cap bearing



ITEM	PART NO.	QTY.	DESCRIPTION
1	77109364	1	CASE, tandem (left) (Graders prior to unit #01299)
	70687945	1	CASE, tandem (left)(Grader unit #01299 and up)
	77109365	1	CASE, tandem (right)(Graders prior to unit #01299)
	70687946	1	CASE, tandem (right)(Grader unit #01299 and up)
	70901652	4	PLUG, pipe, 1/4"NPT
1A	70051094	2	PLUG, vent (3/4"NPT)
2	70054755	6	COVER, case access hole, top
	70922262	24	CAPSCREW, 3/8"NC x 7/8"
	70910287	24	LOCKWASHER, 3/8"
3	70054756	6	GASKET, top access hole cover
4	70054757	2	COVER, case access hole, side
	70922262	12	CAPSCREW, 3/8"NC x 7/8"
	70910287	12	LOCKWASHER, 3/8"

(Continued)

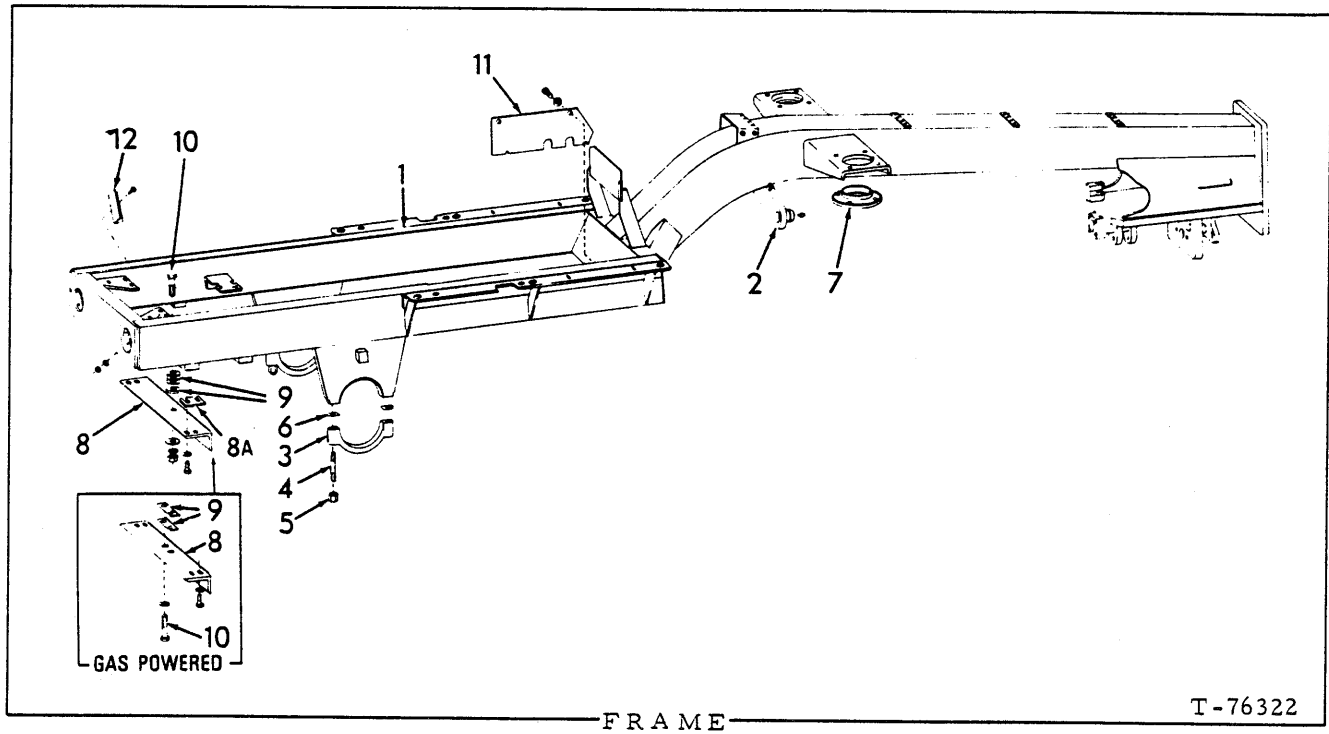
TANDEMS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	70054758	2	GASKET, side access hole cover
6	70054774	2	HUB, case
	70924864	12	CAPSCREW, 1/2"NC x 2-1/4" (Upper)
	70924865	8	CAPSCREW, Nylok, 1/2"NC x 2-1/4" (Lower)
	70912441	20	LOCKWASHER, 1/2"
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
7	70054764	4	WASHER, hub thrust
8	70054766	18	SHIM, case hub (.010" thick)
	70054763	14	SHIM, case hub (.005" thick)
	70647947	4	SHIM, case hub (.003" thick)
9	70646974	2	SPROCKET, drive (9-tooth)
10	70040101	2	WASHER
11	70058028	2	NUT (slotted)
	70900808	2	PIN, cotter, 1/8" x 1-1/2"
12	70646973	2	KEY, drive sprocket
13	70054754	2	SPACER, drive sprocket
14	70623645	4	CHAIN, driving (42 links. Includes items 15 and 16)(Graders prior to #01299)
	70687949	4	CHAIN, driving (44 links. Includes item 15 and 16)(Graders unit #01299 and up)
15	70623646	-	LINK, roller, driving chain service (1-1/2" pitch)
16	70623647	-	LINK, connecting, driving chain service (1-1/2" pitch)
17	70624428	-	LINK, offset, driving chain (2 pitches. Used to alter length of chain 1-1/2". Requires use of extra connecting link)
18	70623654	2	SHAFT AND SPROCKET, front wheel
19	70623652	1	SHAFT AND SPROCKET, right rear wheel
	70623650	1	SHAFT AND SPROCKET, left rear wheel (Has tapped holes for driving odometer)
20	70209889	4	CONE ASSY., wheel shaft inner bearing
21	70209890	4	CUP, wheel shaft inner bearing
22	70054765	4	RETAINER, wheel shaft inner bearing (See page 190 for special retainer used when ODOMETER is installed)
	70920582	24	CAPSCREW, 1/2"NC x 1-1/4"
	70912441	24	LOCKWASHER, 1/2"
23	70054752	32	SHIM, wheel shaft bearing (.010" thick)
	70054753	32	SHIM, wheel shaft bearing (.005" thick)
24	70066128	4	CONE ASSY., wheel shaft outer bearing
25	70066129	4	CUP, wheel shaft outer bearing
26	70054775	4	RETAINER, wheel shaft outer bearing (Graders prior to unit #00642)
	70083096	4	RETAINER, wheel shaft outer bearing (Grader unit #00642 and up; also graders prior to unit #00642 if equipped with Wheel Brakes)
	70920582	24	CAPSCREW, 1/2"NC x 1-1/4"
	70912441	40	LOCKWASHER, 1/2"
27	70643392	16	CAPSCREW, Nylok, 1/2"NC x 1-1/8"
28	70048703	4	SEAL, oil wheel shaft

MEMO

(Revised January 1975)

MEMO



FRAME

* Diesel-powered, effective serial No. 24A00201, 56Y02201

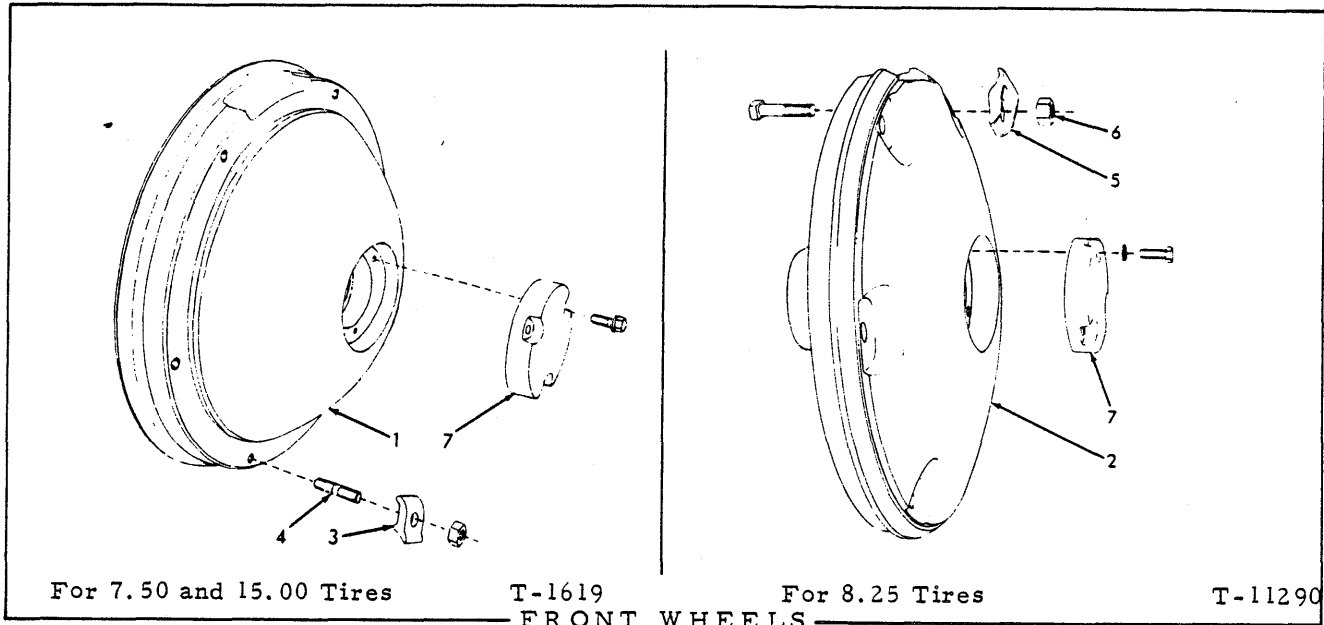
** Gas-powered, effective serial No. 75Y00201

ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70684357	1 1	FRAME ASSY. (Graders prior to unit #01528)
	70693133	1 1	FRAME ASSY. (Grader unit #01528 and up)
	70914465	1 1	FITTING, lubricating, straight, 1/8"NPT
2	70620204	1 1	△BRACKET, side shift
3	70066179	2 2	CAP, trunnion
4	70050913	4 4	STUD (3/4" diam.)
5	70012767	4 4	NUT, high, 3/4"NF
6	70055062	24 24	SHIM, trunnion cap (Use as required)
7	70658497	2 2	△SOCKET, lift cylinder
			△Requires welding to install
8	77108679	1 -	ANGLE, engine rear support
	70677225	- 1	ANGLE, engine rear support
	70920582	4 4	CAPSCREW, 1/2"NC x 1-1/4"
	70928188	4 4	WASHER, plain, SAE std., 1/2"
8A	70693642	4 -	SHIM, aligning (Use as required)
9	70067924	3 -	WASHER, engine shimming
	70086961	1 -	WASHER, engine shimming
	70203159	- 6	SHIM, engine aligning
	70203165	- 5	SHIM, engine aligning
10	70921173	1 -	CAPSCREW, engine mounting (5/8"NC x 2-1/2")
	70677010	1 -	WASHER, plain
	70915256	1 -	NUT, 5/8"NC
	70925135	- 2	CAPSCREW, engine mounting (1/2"NC x 3-1/4")
	70677008	- 2	LOCKWASHER, 1/2"
11	70673821	1 1	PLATE, enclosure
	70927541	4 4	CAPSCREW, 1/4"NC x 3/4"
	70677004	4 4	WASHER, plain
12	70683911	1 1	COVER, tail light hole (Effective with grader unit #00642. Not used when special Tail Lights are installed)
	70922763	1 1	CAPSCREW, 3/8"NC x 1"
	70677006	1 1	WASHER, plain
	70911026	1 1	NUT, 3/8"NC

Each includes items 2 thru 7

Use as required

(Revised June 1977)

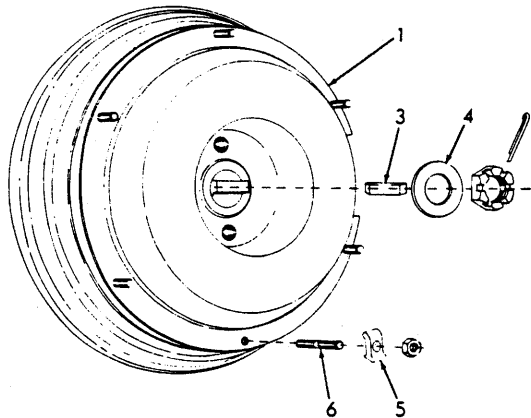


*Standard prior to Unit No. 01278. For 7.50 Tires when using drop-center rims.

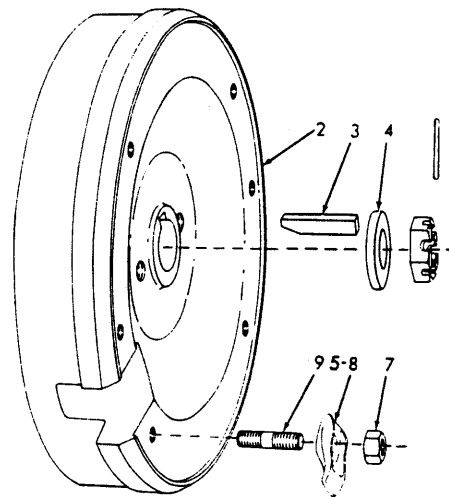
**Special prior to Unit No. 01278; Standard thereafter. For 8.25 Tires when using flat-base rims

***Special equipment. For 15.00 tires when using flat-base rims

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70685801	2	-	-	WHEEL, front (For first replacement on units prior to #00694 also order 6 - CLAMP 70685799, 6 - STUD 70603488 and 6 - NUT 70601405)
	70688396	-	-	2	WHEEL, front
2	70079635	-	2	-	WHEEL, front
3	70685799	12	-	12	CLAMP, wheel rim (For first replacement on units prior to #00694 with 7.50 tires also order 1 - STUD 70603488 and 1 - NUT 70601405)
4	70054882	12	-	-	STUD (1/2"NC)(Graders prior to unit #00694)
	70603488	12	-	12	STUD (5/8"NC)(Graders unit #00694 and up; also used on all graders with 15.00 tires)
	70907517	12	-	-	NUT, cd.-pltd, 1/2"NC
	70601405	12	-	12	NUT (5/8"NC)
5	70604361	-	12	-	CLAMP, wheel rim
	70913956	-	12	-	BOLT, machine, 5/8"NC x 2-1/2"
6	70601405	-	12	-	NUT, wheel rim bolt
7	70603954	2	2	2	CAP, hub
	70922763	6	6	6	CAPSCREW, 3/8"NC x 1"
	70910287	6	6	6	LOCKWASHER, 3/8"



For 7.50 Tires

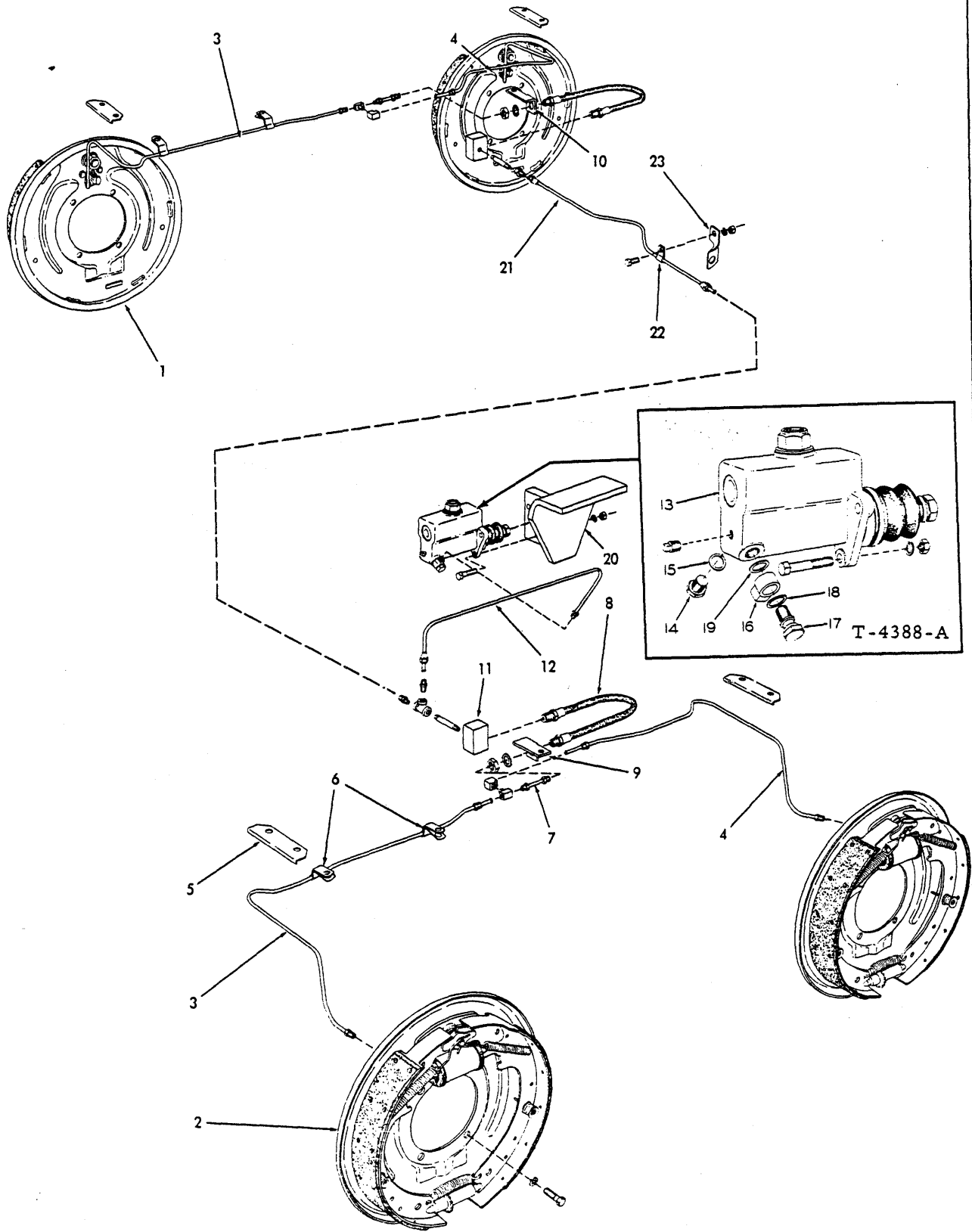


For 8.25 and 15.00 Tires T-12012

T-76392
REAR WHEELS

*Standard on graders prior to Unit No. 01278. For 7.50 tires when used with drop-center rims.
 **Special on graders prior to Unit No. 01278; Standard thereafter. For 8.25 tires when used with flat-base rims.
 ***Special equipment. For 15.00 tires when used with flat-base rims.

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	70675109	4	-	-	WHEEL, rear (Units without wheel brakes)
	70685800	4	-	-	WHEEL, rear (Units with wheel brakes)(If for first replacement on units prior to #00694 also order 6 - CLAMP 70685799, 6 - STUD 70603488 and 6 - NUT 70601405)
2	70676602	-	4	-	WHEEL, rear (Units without wheel brakes)
	70676603	-	4	-	WHEEL, rear (Units with wheel brakes)
	70688400	-	-	4	WHEEL, rear
3	70054888	4	4	4	KEY, rear wheel
4	70053606	4	4	4	WASHER, rear wheel retaining
	70913527	4	4	4	NUT, jam, slotted, 1-1/2"NF
	70900813	4	4	4	PIN, cotter, 3/16" x 2"
5	70685799	24	-	24	CLAMP, wheel rim (For first replacement on units prior to #00694 with 7.50 tires also order 1 - STUD 70603488 and 1 - NUT 70601405)
6	70054882	24	-	-	STUD (1/2"NC)(Graders prior to unit #00694)
	70603488	24	-	24	STUD (5/8"NC)(Graders unit #00694 and up; also used on all graders with 15.00 tires)
	70907517	24	-	-	NUT, cd.-pltd., 1/2"NC
	70601405	24	-	-	NUT (5/8"NC)
7	70601405	-	24	24	NUT, wheel rim
8	70604361	-	24	-	CLAMP, wheel rim
9	70090418	-	24	-	STUD, rim clamp



WHEEL BRAKES

T-19508

WHEEL BRAKES

USAGE: Special equipment on Graders prior to serial No. 24 A00642 and 75 Y00642;
Standard thereafter.

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	2	BRAKE ASSEMBLY, left wheels (See page 126)
	70927172	8	CAPSCREW, 1/2"NC x 1-1/8"
	70931523	8	WASHER
2	-----	2	BRAKE ASSEMBLY, right wheels (See page 126)
	70927172	8	CAPSCREW, 1/2"NC x 1-1/8"
	70931523	8	WASHER
3	70083600	2	TUBE ASSEMBLY, rear brakes (Each includes 2 NUTS 70913536) (To be formed at assembly)
	70913536	4	NUT, inverted flare type, 1/4" tube
	70915841	2	TEE, inverted flare type, 1/4" tube, 1/8"NPT male
	70915842	2	ELBOW, inverted flare type, 1/4" tube, 1/8"NPT male
4	70083601	2	TUBE ASSEMBLY, front brakes (Each includes 2 NUTS 70913536) (To be formed at assembly)
	70913536	4	NUT, inverted flare type, 1/4" tube, 1/8"NPT male
5	70067836	4	SHIELD, brakes tubes
6	70067835	4	CLIP, supporting, brake tubes
7	70068479	2	TUBE ASSEMBLY, tee to hose (Each includes 2 NUTS 70913536)
	70913536	4	NUT, inverted flare type, 1/4" tube, 1/8"NPT male
8	70600675	2	HOSE, connecting, brake tubes (17-1/4"long)
	70910543	2	LOCKWASHER, external teeth, 5/8"
	70911049	2	NUT, jam, 5/8"NF
9	70067837	1	BRACKET, hose supporting, right side
10	70067838	1	BRACKET, hose supporting, left side
11	70083140	2	BLOCK, hose connecting (welded to frame)
	70901470	2	NIPPLE, pipe, 1/8"NPT x 2-1/2"
12	70083564	1	TUBE ASSEMBLY, master cylinder (Includes 1 NUT 70910136 and 1 NUT 70913536)
	70910136	1	NUT, flare type, long, 1/4" tube
	70913536	1	NUT, inverted flare type, 1/4" tube, 1/8"NPT male
	70901702	1	TEE, pipe, 1/8"NPT
	70910141	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
13	-----	1	CYLINDER ASSY., master (See page 125)
	70901651	1	PLUG, pipe, 1/8"NPT
	70927322	3	CAPSCREW, 3/8"NF x 2"
	70910287	3	LOCKWASHER, 3/8"
	70911041	3	NUT, 3/8"NF
14	70067508	1	PLUG, master cylinder outlet
15	70067507	1	GASKET, master cylinder outlet plug
16	70059229	1	CONNECTOR, master cylinder
17	70059224	1	SCREW
18	70059225	1	GASKET, attaching screw

(Continued)

(Revised January 1979)

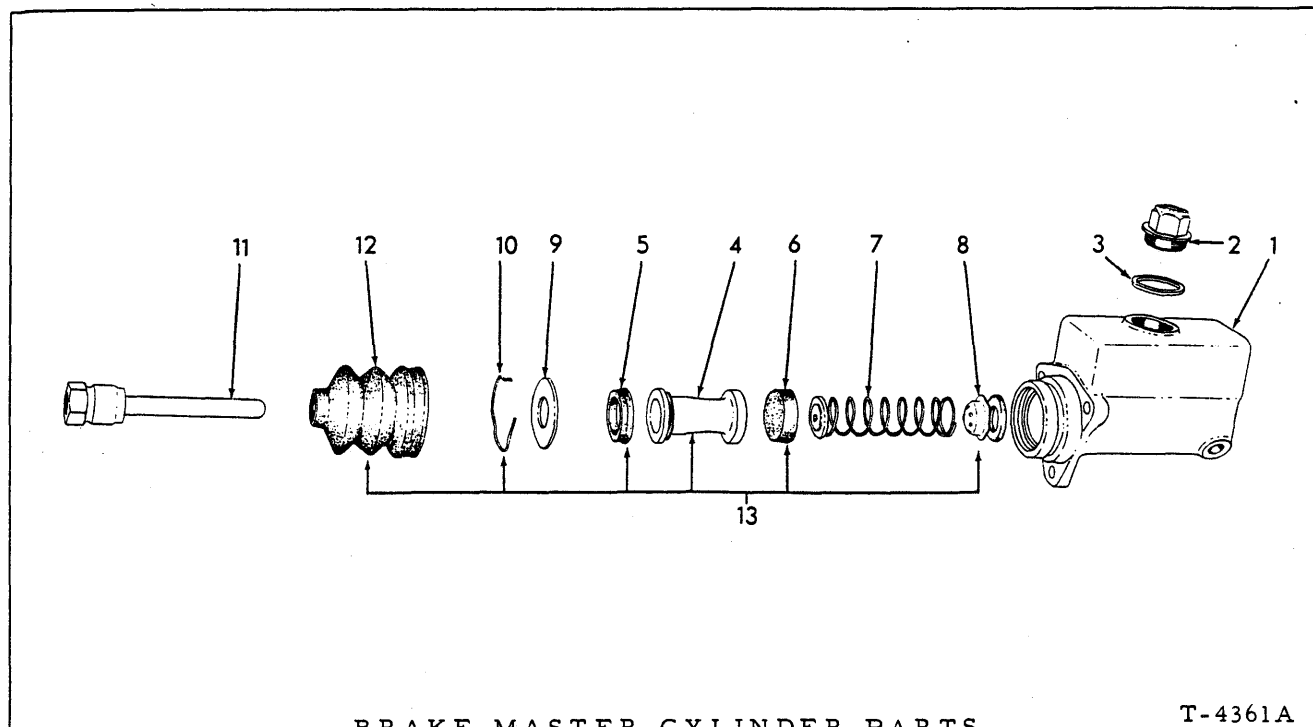
WHEEL BRAKES (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
19	70059220	1	GASKET, master cylinder connector
20	70083563	1	BRACKET, master cylinder mounting (Requires welding to frame)(Graders prior to unit #00642 only)
21	70083565	1	TUBE ASSEMBLY, master cylinder to left brakes (Includes 2 NUTS 70910136)
	70910136	2	NUT, flare type, long, 1/4" tube
	70910141	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
	70913036	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
22	70235794	1	CLIP, tube supporting
	70922300	1	CAPSCREW, 3/8"NC x 3/4"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
23	70083530	1	BRACKET, clip attaching

TIRES, TUBES AND RIMS (Not Illustrated)

ITEM	PART NO.	QTY.	DESCRIPTION
1	70672211	6	RIM, 5.50F - 20" (Electric Wheel No. 03-12308-00 or Motor Wheel No. 50702-A)(Used with 7.50 tire)
	70079630	6	RIM, 6.00 - 20" (Goodyear No. 860 or Firestone No. 237R5-1) (Used with 8.25 tire)
	70688571	6	RIM, 11.75 - 19.5 (Used with 15.00 tire)
2	-----	6	TIRE, 7.50 - 20", 6 ply rating, tubeless
	-----	6	TIRE, 8.25 - 20", 6 ply rating, tube type
	-----	6	TIRE, 8.25 - 20", 10 ply rating, tube type
	-----	6	TIRE, 15.00 - 19.5", 10 ply rating, tubeless
3	-----	6	TUBE, 8.25 - 20", with TR-218 valve
4	-----	6	VALVE, rim, TR-618 (For 7.50 tubeless tires)
	70688406	6	VALVE, rim, TR-513 (For 15.00 tubeless tires)

with flap

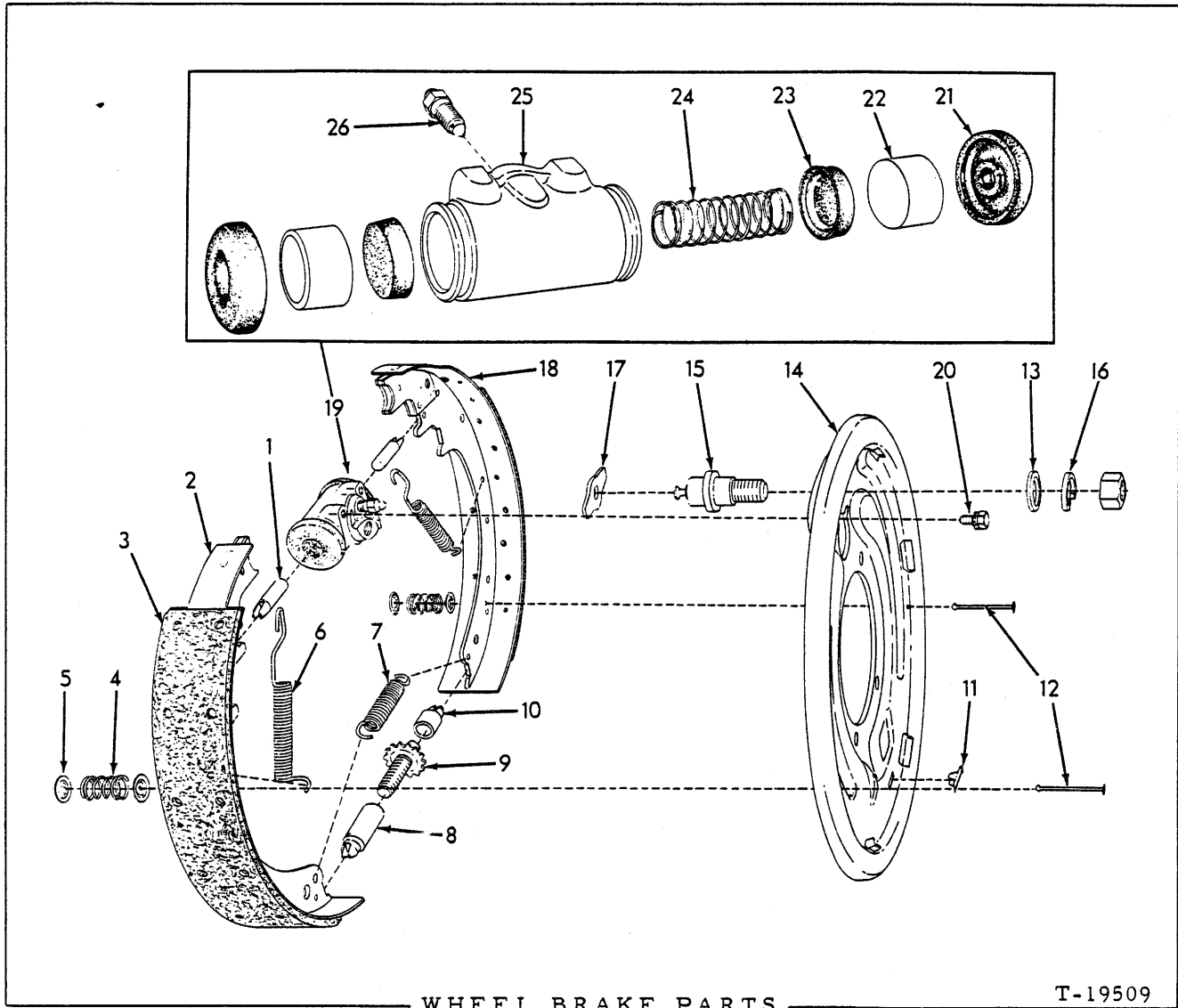


BRAKE MASTER CYLINDER PARTS

T-4361A

USAGE: See page 123

ITEM	PART NO.	QTY.	DESCRIPTION
-	70067005	1	CYLINDER ASSY., master (Includes item 1 thru 13)
1	-----	1	TANK, supply (Not serviced separately)
2	70074349	1	CAP ASSY., filler (Serviced only as a unit)
3	70076486	1	GASKET, filler cap
4	-----	1	PISTON (Not serviced separately. Order item 13)
5	70067608	1	CUP, secondary
6	70067492	1	CUP, primary
7	70067493	1	SPRING ASSEMBLY, piston return (Includes end washer. Serviced only as a unit)
8	70091602	1	VALVE AND SEAT ASSEMBLY, check (Serviced only as a unit)
9	70067490	1	PLATE, piston stop
10	70067488	1	WIRE, piston stop plate retaining
11	70067486	1	ROD, push
12	70067487	1	BOOT, push rod
13	70067498	1	REPAIR KIT (Consists of items 4, 5, 6, 8, 10 and 12)



USAGE: See page 123

*Left Wheels
 **Right Wheels

ITEM	PART NO.	QTY. * **	DESCRIPTION	
-	70083401	1	BRAKE ASSY., left wheel	} Each includes items 1 thru 26
-	70083402	1	BRAKE ASSY., right wheel	

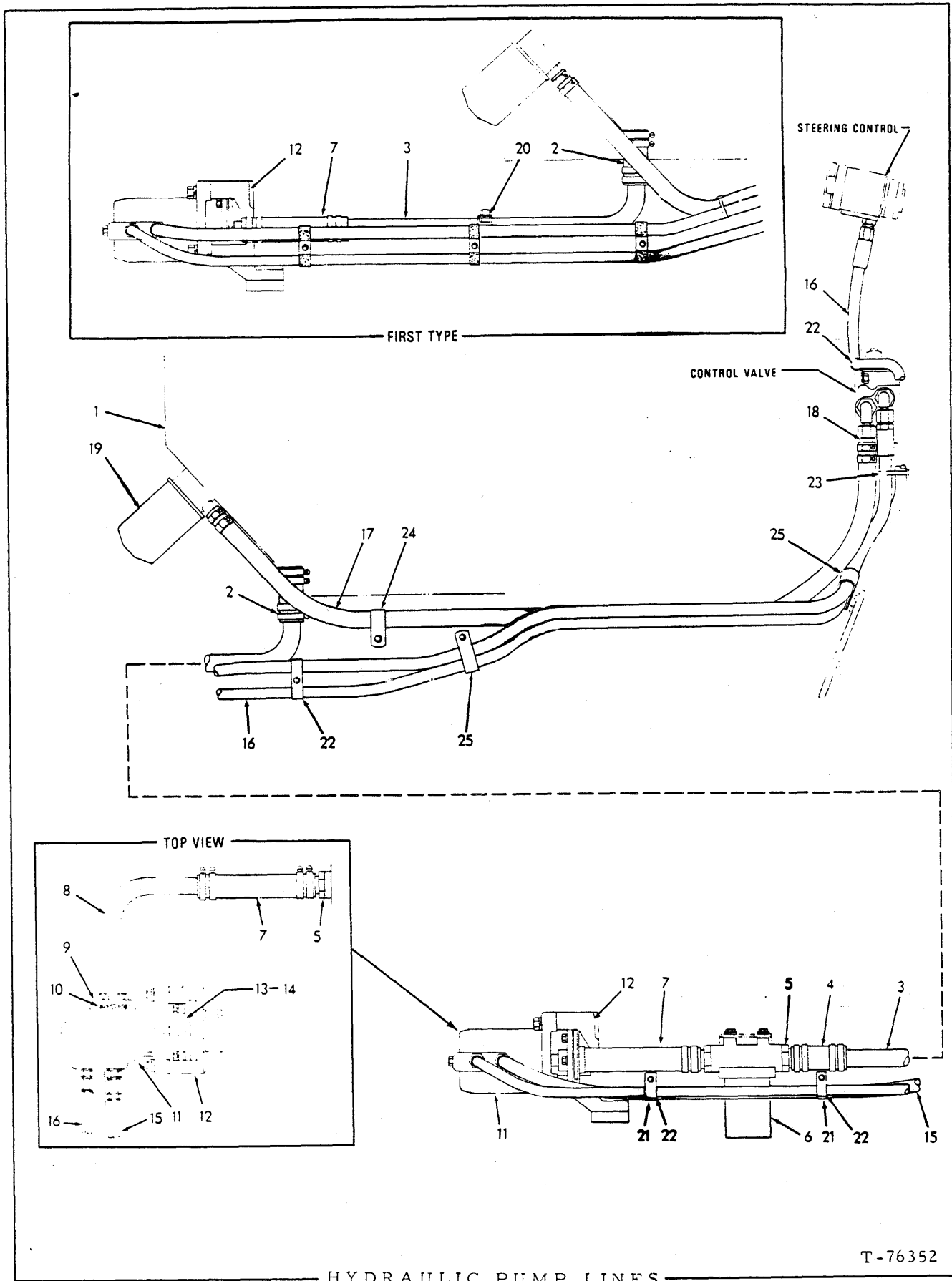
NOTE: Quantities indicated are for one (1) Brake Assembly only

1	70087444	1	1	LINK, brake cylinder
2	70087449	1	1	SHOE ASSY., rear (Includes lining)
3	70094337	1	1	LINING KIT (Consists of 4 linings and 44 rivets. Complete set for two wheels)
4	70087438	2	2	SPRING, shoe retaining
5	70087439	4	4	CUP, shoe retaining spring

(Continued)

WHEEL BRAKE PARTS (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
6	70087443	2 2	SPRING, shoe retracting, upper
7	70087440	1 1	SPRING, shoe retracting, lower
8	70087446	1 1	NUT, brake adjustment
9	70087448	1 1	SCREW, brake adjustment
10	70087447	1 1	SOCKET, brake adjustment
11	70087437	1 1	COVER, back plate adjustment hole
12	70087441	2 2	PIN, shoe retaining
13	70087452	1 1	WASHER, spring anchor pin
14	70088644	1 1	PLATE, back
15	70087451	1 1	PIN, spring anchor
16	70059041	1 1	LOCKWASHER, 3/4"
	70911045	1 1	NUT, 3/4"NF
17	70087442	1 1	PLATE, guide, brake shoe
18	70087450	1 1	SHOE ASSEMBLY, front (Includes lining)
19	{ 70088673	1 -	CYLINDER ASSEMBLY, left brake
	{ 70088674	- 1	CYLINDER ASSEMBLY, right brake
			} Each consists of items 21 thru 26
20	70087445	2 2	SCREW ASSEMBLY (Includes lockwasher)
21	70095248	2 2	BOOT, brake cylinder
22	70095249	2 2	PISTON, brake cylinder
23	70095250	2 2	CUP, brake cylinder (rubber)
24	70095251	1 1	SPRING, brake cylinder
25	-----	1 1	CYLINDER, (Not serviced separately)
26	70095252	1 1	SCREW, bleed, brake cylinder



T-76352

(Revised April 1972)

HYDRAULIC PUMP LINES

ITEM	PART NO.	QTY.	DESCRIPTION	
1	-----	1	RESERVOIR (See FUEL TANK)	
2	70630636	1	HOSE, suction line, front	
	70921912	4	CLAMP, hose	
3	{ 70673509	1	TUBE, suction line, front (Graders prior to unit #00602)	
	{ 70683116	1	TUBE, suction line, front (Grader unit #00602 and up)	
4	70630636	1	HOSE, suction line, intermediate	} Grader unit #00602 and up
	70921912	4	CLAMP, hose	
5	70683128	2	ADAPTER ASSY., hose (Includes O-RING)	
	70921214	2	O-RING, adapter	
6	-----	1	STRAINER ASSY., oil (See page 130A)	
	70922262	2	CAPSCREW, 3/8"NC x 7/8"	
	70677006	2	WASHER, plain	
7	{ 70681595	1	HOSE, suction line, rear (Effective on S/N 75Y00201)	
	{ 70676326	1	HOSE, suction line, rear (Effective on S/N 24A00201, 56Y02201)	
	70921912	4	CLAMP, hose	
8	70673511	1	TUBE, suction line, rear	
9	70921118	2	FLANGE, split	
	70920582	4	CAPSCREW, 1/2"NC x 1-1/4"	
	70912441	4	LOCKWASHER, 1/2"	
10	70923578	1	O-RING, tube connection	
11	-----	1	PUMP ASSY., oil (See page 132 and 133A)	
	70927531	4	CAPSCREW, 7/16"NC x 2"	
	70914678	4	LOCKWASHER, 7/16"	
12	70689868	1	BRACKET, mounting (Also used for engine mounting) (Not for Diesel-powered units)	
13	70698825	1	ADAPTER ASSY., pump (Includes item 14)	
	70928306	6	CAPSCREW, 5/16"NF x 1-1/2"	
	70910286	6	LOCKWASHER, 5/16"	
	70911422	6	WASHER, plain	
14	74994157	6	BUSHING, adapter	
15	{ 70677231	1	HOSE, pump to control valve (See HOSE PARTS)(Effective on S/N 75Y00201)	
	{ 70673124	1	HOSE, pump to control valve (See HOSE PARTS)(Effective on S/N 24A00201, 56Y02201)	
	70921325	1	ELBOW, flare type, swivel nut, 5/8" tube	
	70924023	2	CONNECTOR, flare type, 5/8" tube, 1-1/16" male end (Includes O-RING)	
	70921206	2	O-RING, connector	

(Continued)

(Revised June 1977)

HYDRAULIC PUMP LINES (Continued)

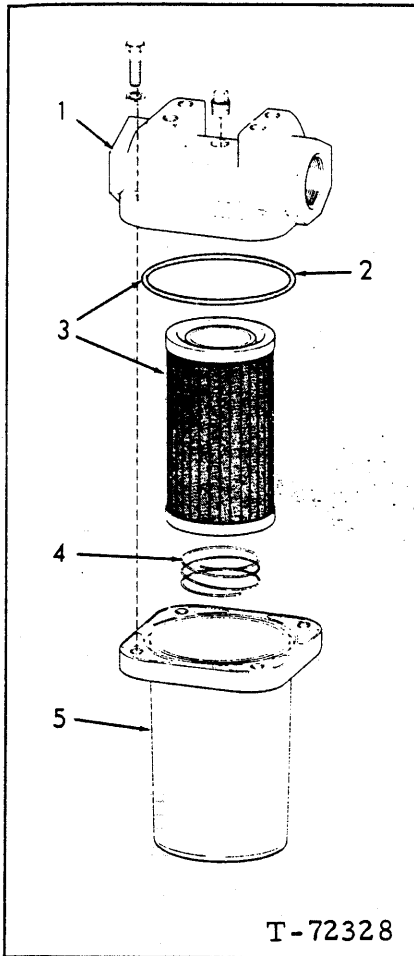
ITEM	PART NO.	QTY.	DESCRIPTION
16	70677232	1	HOSE, pump to steering control (See HOSE PARTS)(Effective on S/N 75Y00201)
	70673122	1	HOSE, pump to steering control (See HOSE PARTS)(Effective on S/N 24A00201, 56Y02201)
	70924403	1	CONNECTOR, flare type, 1/2" tube, 9/16"NF male end (Includes O-RING)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	70921885	1	O-RING, connector (5/8"O.D.)
	70921349	1	O-RING, connector (13/16"O.D.)
17	70674313	1	HOSE, control valve to reservoir
	70921912	4	CLAMP, hose
18	77109940	1	TUBE, hose connection
	77109939	1	ELBOW, 90°, swivel nut
	70924984	1	CONNECTOR, flare type, 7/8" tube, 1-1/16" male end (Includes O-RING)
	70921206	1	O-RING, connector
19	74511629	1	FILTER, oil
20	77100059	1	CLIP, tube supporting (Graders prior to unit #00602)
	70922262	1	CAPSCREW, 3/8"NC x 7/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
21	70622992	3	CLIP, hose supporting
	70922300	3	CAPSCREW, 3/8"NC x 3/4"
	70910287	3	LOCKWASHER, 3/8"
	70911115	3	WASHER, plain, SAE std., 3/8"
22	70094467	4	CLIP, hose supporting
23	70196765	1	TIE, hose
24	70095869	1	CLIP, hose supporting
	70922300	1	CAPSCREW, 3/8"NC x 3/4"
	70910287	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
25	70644708	2	CLIP, hose supporting
	70927400	1	CAPSCREW, 3/8"NC x 5/8"
	70911115	1	WASHER, plain, SAE std., 3/8"

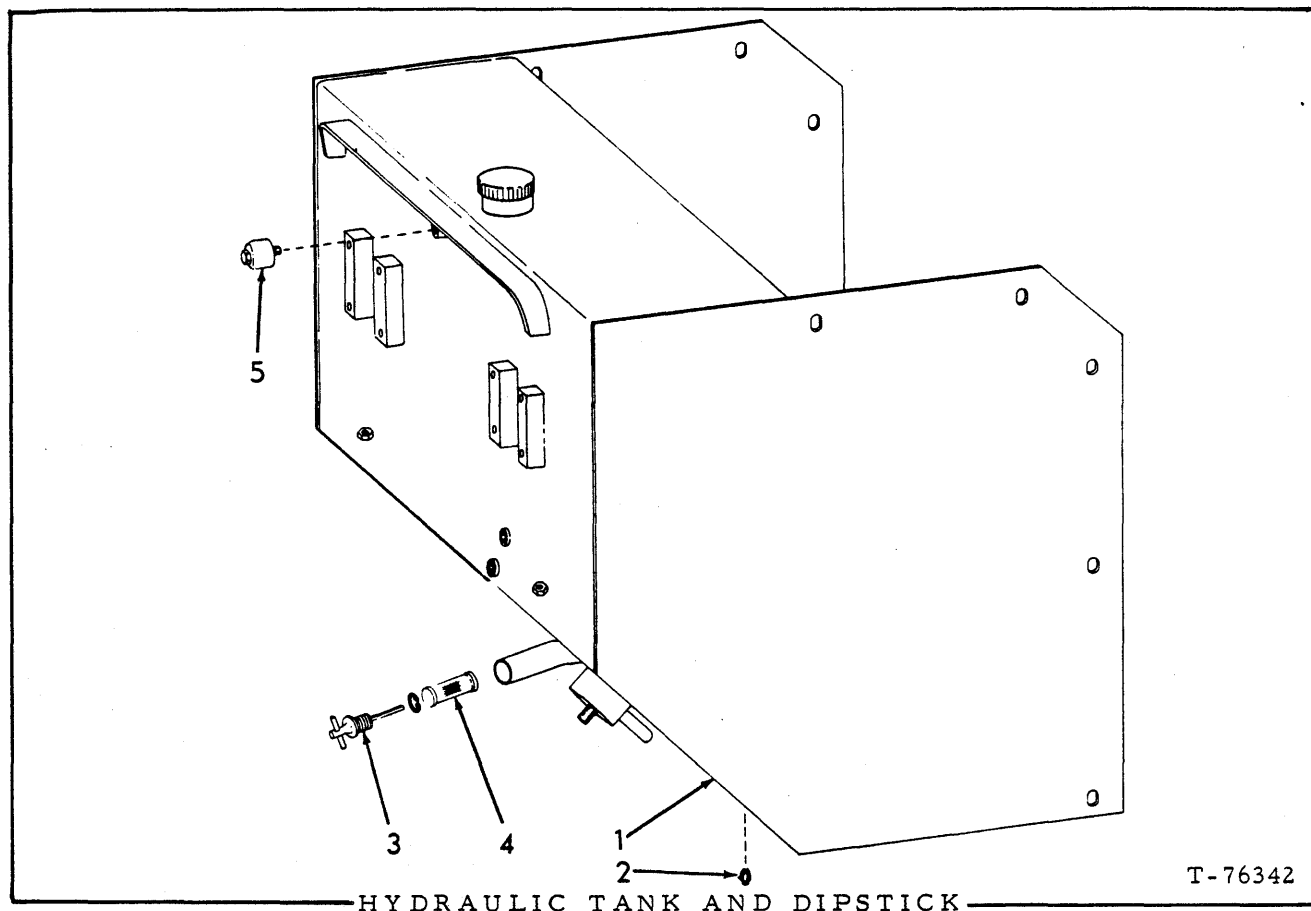
(Revised June 1977)

OIL STRAINER ASSEMBLY

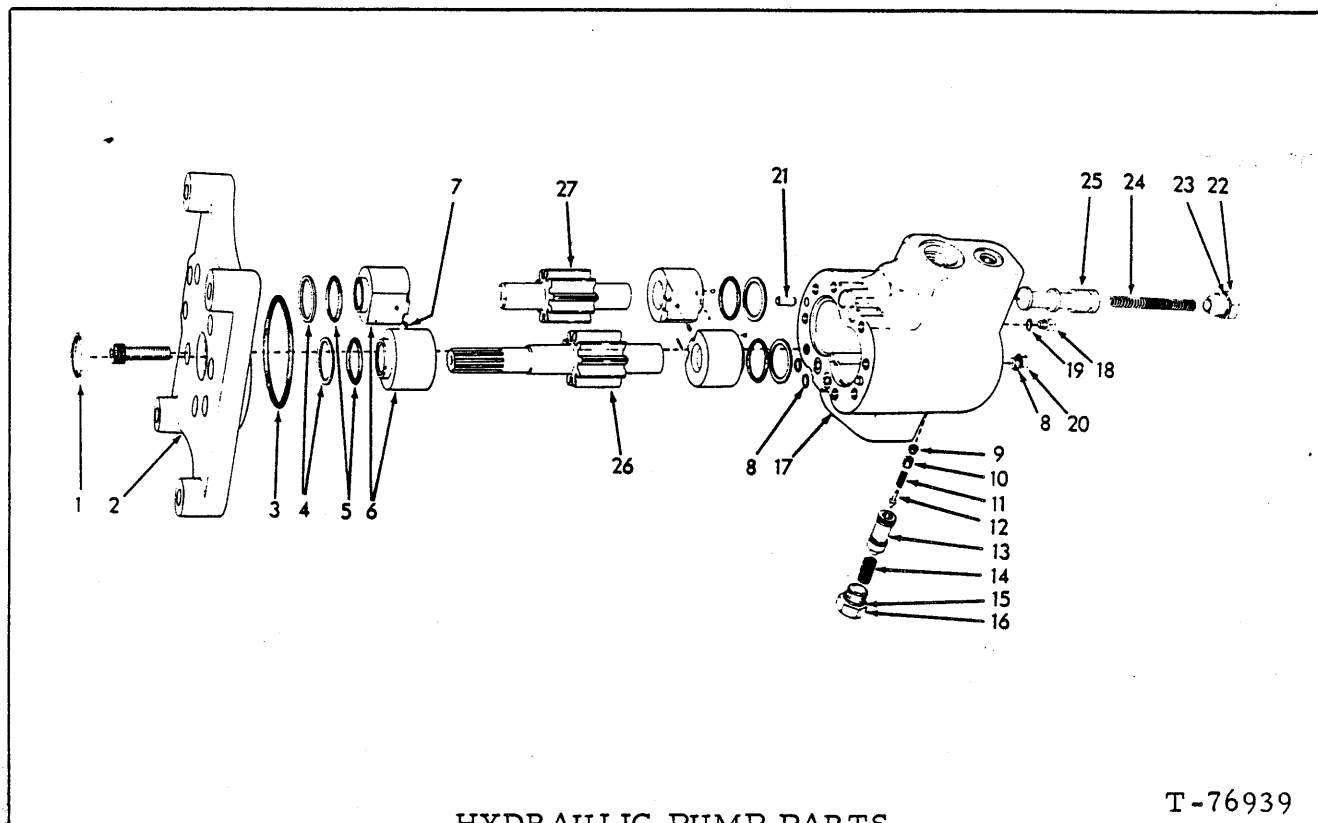
USAGE: See page 129

ITEM	PART NO.	QTY.	DESCRIPTION
-	70651388	-	STRAINER ASSY., oil (Includes items 1 thru 5)
1	70651387	1	HEAD ASSY. (Includes PLUG indented below)
	70901651	1	PLUG, pipe, 1/8"NPT
	70927401	4	CAPSCREW, 1/4"NC x 1"
	70906958	4	LOCKWASHER, 1/4"
2	70651385	1	O-RING, body
3	70651506	1	ELEMENT KIT (Includes item 2)
4	70651384	1	SPRING, element
5	70651373	1	BODY, oil strainer





ITEM	PART NO.	QTY.	DESCRIPTION
1	70693237	1	SEAT AND TANK (Also see FUEL TANK and LINES)
2	70606961	1	PLUG, pipe, magnetic
3	-----	1	DIPSTICK (3" long)(Early units. Order 1 DIPSTICK 70681442 and 1 SCREEN 70681443)
	70681442	1	DIPSTICK (6" long)(Late units)
4	-----	1	SCREEN (3" long)(Early units. Order 1 DIPSTICK 70681442 and 1 SCREEN 70681443)
	70681443	1	SCREEN (5-1/2" long)(Late units)
	70927692	1	RING, snap, screen retaining
5	70050748	1	BREATHER



T-76939

HYDRAULIC PUMP PARTS

USAGE: Used on Graders prior to unit #02130. See page 129

* Used prior to Grader unit #01886 excluding #01755 (Early design)

** Used prior to Grader unit #01886 excluding #01755 (Late design)

*** Effective Graders unit #01886 thru #02129 including #01755

| ITEM | PART NO. | QUANTITY | DESCRIPTION | |------|----------|----------|--| | - | 70684019 | 1 | PUMP ASSY., hydraulic (Includes items 1 thru 27) | | 1 | 74906382 | 1 | SEAL, front | | 2 | 74994008 | 1 | FLANGE, mounting | | | 70697416 | 1 | FLANGE, mounting | | | 70920269 | 8 | CAPSCREW, hex-socket, 3/8"NF x 1-1/4" | | 3 | 74255396 | 1 | O-RING, body (large) | | | 70931238 | 1 | O-RING, body (large) | | 4 | 74999827 | 4 | RING, back-up | | 5 | 74255398 | 4 | O-RING, bushing | | 6 | 74905001 | 4 | BUSHING (Includes pins and balls) | | | 70698750 | 4 | BUSHING | | 7 | 74993823 | 2 | DOWEL, bushing | | 8 | 74906386 | 3 | O-RING, body (small) | | 9 | 74905004 | 1 | SETSCREW (1/4"NF x 3/16") | | 10 | 74906381 | 1 | SETSCREW (nylok, 1/4" NF x 1/4") | | 11 | 74999536 | 1 | SPRING, relief valve cone | | 12 | 74999535 | 1 | CONE, relief valve | | 13 | 74905005 | 1 | SPOOL | | 14 | 74905240 | 1 | SPRING, relief |

* ** ***

ITEM	PART NO.	QUANTITY	DESCRIPTION
-	70684019	1	PUMP ASSY., hydraulic (Includes items 1 thru 27)
	70698723	-	PUMP ASSY., hydraulic (Includes items 1 thru 27)
1	74906382	1	SEAL, front
2	74994008	1	FLANGE, mounting
	70697416	1	FLANGE, mounting
	70920269	8	CAPSCREW, hex-socket, 3/8"NF x 1-1/4"
3	74255396	1	O-RING, body (large)
	70931238	1	O-RING, body (large)
4	74999827	4	RING, back-up
5	74255398	4	O-RING, bushing
6	74905001	4	BUSHING (Includes pins and balls)
	70698750	4	BUSHING
7	74993823	2	DOWEL, bushing
8	74906386	3	O-RING, body (small)
9	74905004	1	SETSCREW (1/4"NF x 3/16")
10	74906381	1	SETSCREW (nylok, 1/4" NF x 1/4")
11	74999536	1	SPRING, relief valve cone
12	74999535	1	CONE, relief valve
13	74905005	1	SPOOL
14	74905240	1	SPRING, relief

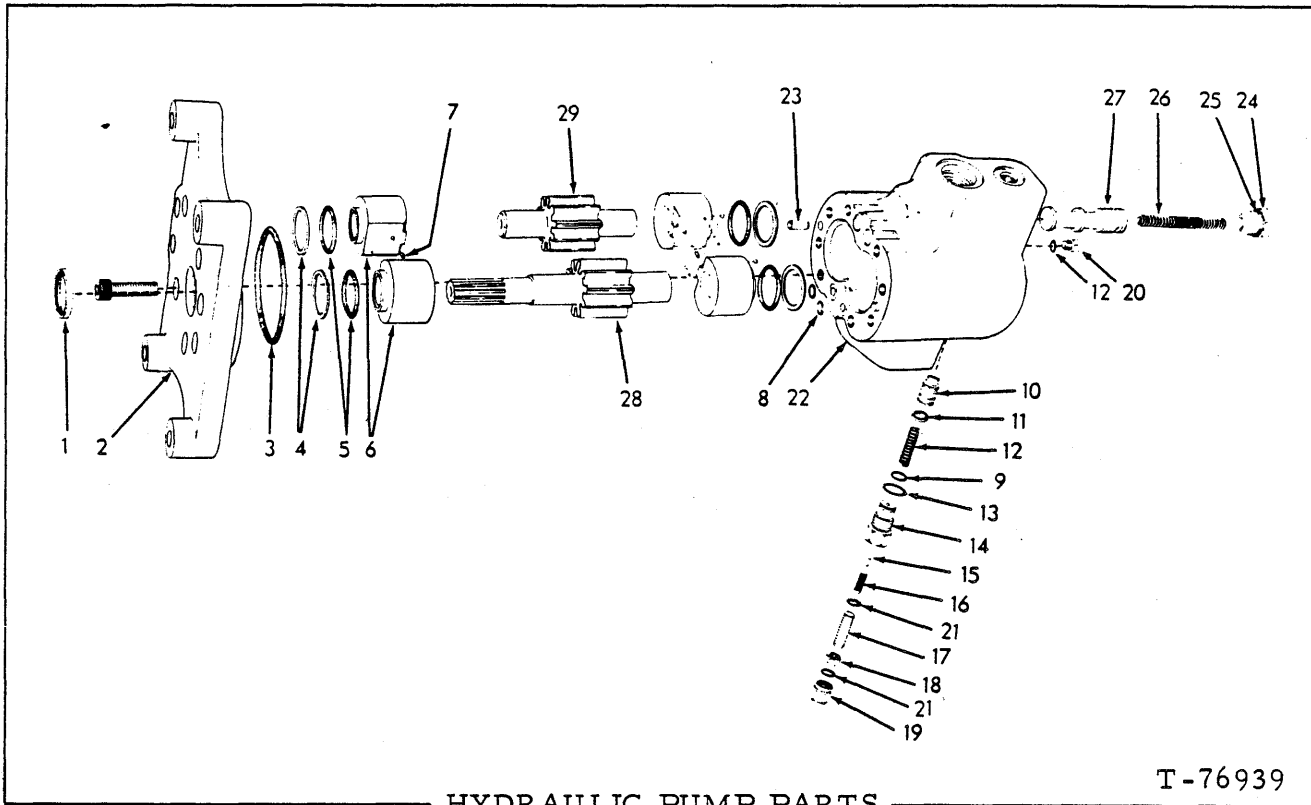
(Continued)

(Revised September 1976)

HYDRAULIC PUMP PARTS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
15	74906383	1	-	-	O-RING
	70697409	-	1	1	O-RING
16	74905006	1	-	-	PLUG, relief port
	70697410	-	1	1	PLUG, relief port
17	-----	1	1	1	BODY ASSY. (Includes roll pins and balls)(Not serviced separately)
18	70922874	1	-	-	PLUG, 5/16" straight thread (Includes item 19)
19	70921881	1	-	-	O-RING, plug
20	74905243	1	-	-	PLUG
21	74993825	2	2	2	DOWEL, body
22	74906387	1	1	1	PLUG
23	74906384	1	1	1	O-RING, plug
24	74994011	1	1	1	SPRING, valve spool
25	74905003	1	1	1	SPOOL, priority valve
26	74993758	1	1	1	GEAR, drive
27	74993759	1	1	1	GEAR, idler

(Revised September 1976)



HYDRAULIC PUMP PARTS

T-76939

USAGE: Effective Grader unit #02130 and up. See page 129

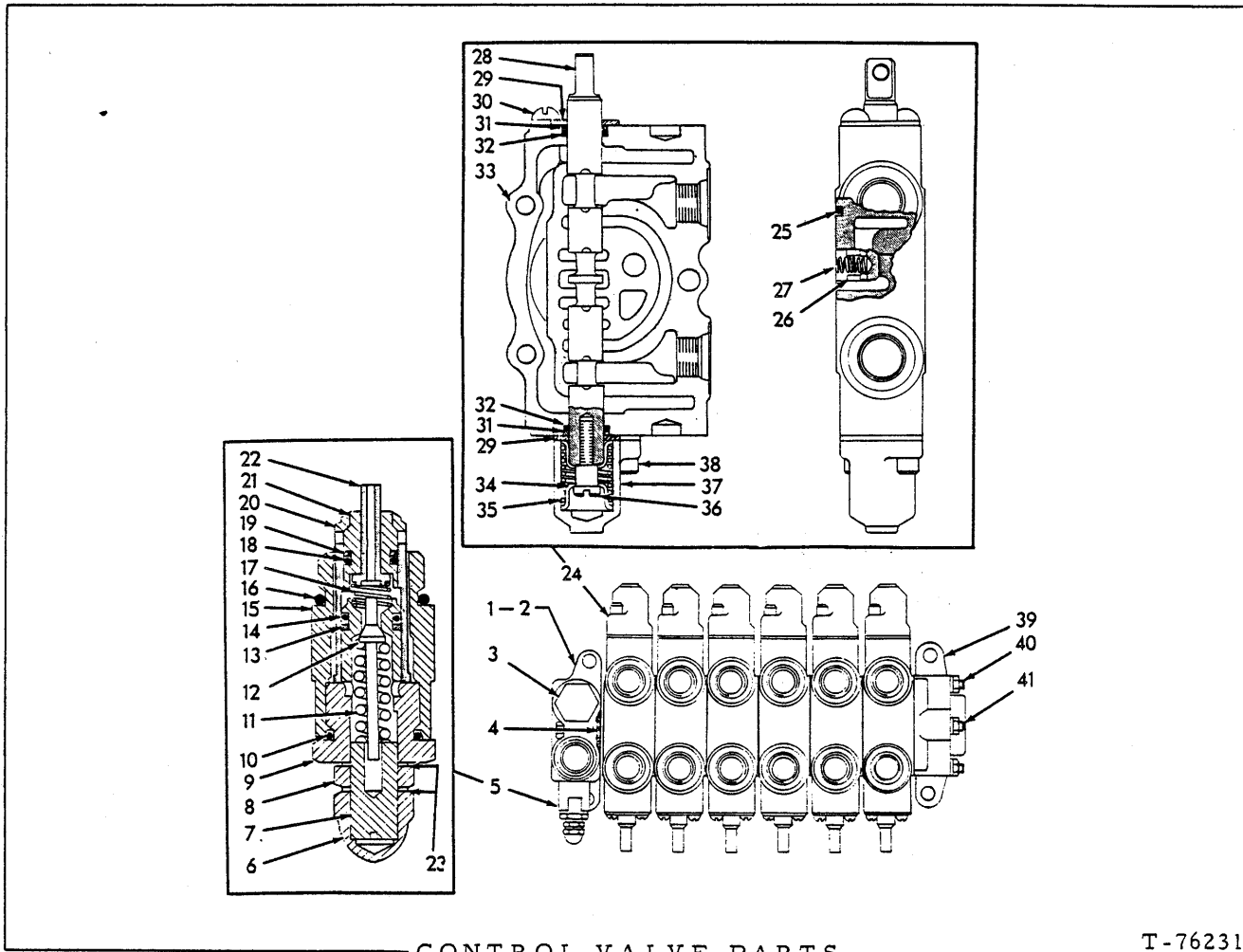
ITEM	PART NO.	QTY.	DESCRIPTION	
-	73108134	1	PUMP ASSY., hydraulic (Includes items 1 thru 27)	
1	74906382	1	SEAL, front	
2	70697416	1	FLANGE, mounting	
	70920269	8	CAPSCREW, hex-socket, 3/8"NF x 1-1/4"	
3	70931238	1	O-RING, body (large)	
4	74999827	4	RING, back-up	
5	74255398	4	O-RING, bushing	
6	70698750	4	BUSHING (Includes pins and balls)	
7	74993823	2	DOWEL, bushing	
8	74906386	2	O-RING, body (small)	
9	70923841	2	O-RING	
10	-----	1	SPOOL	} Not Serviced See item 30
11	-----	1	RING, back-up	
12	-----	1	SPRING	
13	-----	1	O-RING	
14	-----	1	PLUG	
15	-----	1	CONE	
16	-----	1	SPRING	
17	-----	1	SETSCREW	
18	-----	1	NUT	
19	-----	1	NUT	
20	-----	1	PLUG, 5/16" straight thread (Includes item 19)	

(Continued)

HYDRAULIC PUMP PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	70928241	2	O-RING
22	-----	1	BODY ASSY. (Includes roll pins and balls)(Not serviced separately)
23	74993825	2	DOWEL, body
24	-----	1	PLUG
25	-----	1	O-RING, plug
26	-----	1	SPRING, valve spool
27	-----	1	SPOOL, priority valve
28	74993758	1	GEAR, drive
29	74993759	1	GEAR, idler
30	73108411	1	KIT, relief valve (Includes items 10 thru 20)
31	73108412	1	KIT, flow divider (Includes items 24 thru 27)

} Not serviced
See item 31



CONTROL VALVE PARTS

T-76231

USAGE: See page 136

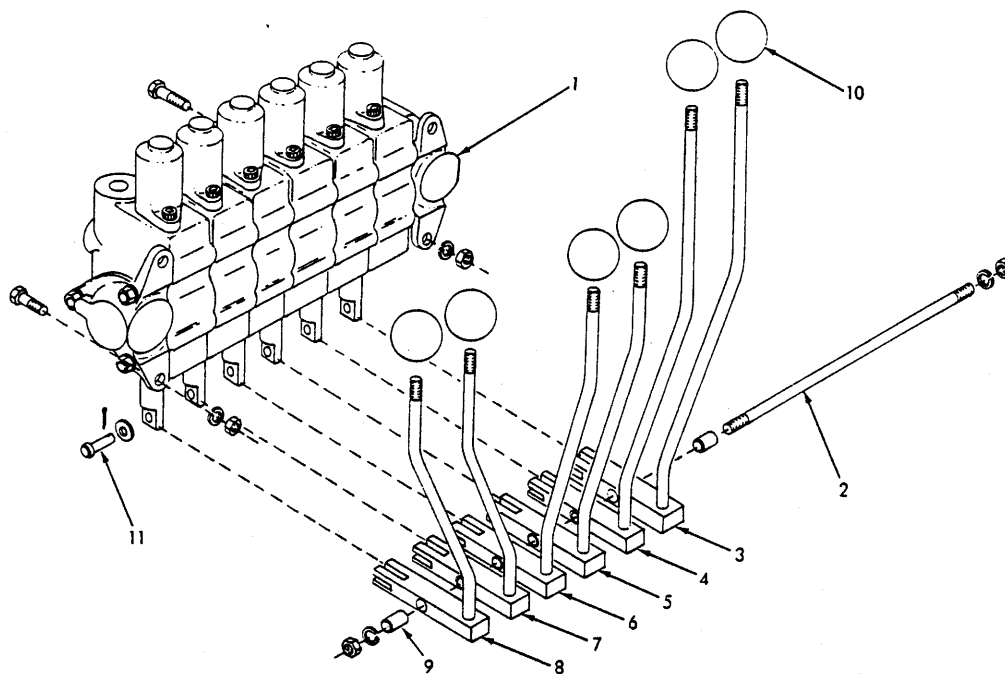
ITEM	PART NO.	QUANTITY	DESCRIPTION	
-	77108616	1	VALVE ASSY., control (4 section. Standard)	} Each includes items 1 thru 41
-	77108618	- 1	VALVE ASSY., control (5 section. Special)	
-	77108619	- - 1	VALVE ASSY., control (6 section. Special)	
1	77108877	1 1 1	HOUSING ASSY., inlet (Includes items 2 thru 23)	
2	-----	1 1 1	HOUSING, inlet (Not serviced; order item 1)	
3	70920107	1 1 1	PLUG, 7/8"NF (Includes O-RING)	
	70921205	1 1 1	O-RING, plug	
4	74253818	1 1 1	O-RING, mounting	
5	74995186	1 1 1	VALVE ASSY., relief (Includes items 6 thru 23)	
6	74131659	1 1 1	NUT, acorn	
7	74995197	1 1 1	SCREW, pressure adjusting	

(Continued)

(Revised March 1972)

CONTROL VALVE PARTS (Continued)

ITEM	PART NO.	QUANTITY			DESCRIPTION
8	74995188	1	1	1	NUT, jam, 3/8"NF
9	74995191	1	1	1	PLUG, poppet valve
10	74988677	1	1	1	O-RING
11	74995195	1	1	1	SPRING, pressure regulating
12	74995193	1	1	1	POPPET, valve
13	74995198	1	1	1	RING, back-up
14	74253928	1	1	1	O-RING
15	74995190	1	1	1	CAP
16	74988668	1	1	1	O-RING
17	74995196	1	1	1	SPRING
18	74251986	1	1	1	O-RING
19	74995199	1	1	1	RING, back-up
20	74995192	1	1	1	POPPET
21	74995320	1	1	1	POPPET
22	74995194	1	1	1	PISTON
23	74995189	2	2	2	WASHER
24	74995335	4	5	6	PLUNGER AND HOUSING ASSY. (Includes items 25 thru 38)
25	74253818	4	5	6	O-RING, mounting
26	74995321	4	5	6	POPPET
27	74995328	4	5	6	SPRING, poppet
28	-----	4	5	6	PLUNGER (Order item 24)
29	74995322	8	10	12	PLATE, seal retaining
30	70901164	8	10	12	SCREW, machine, 1/4"NC x 3/8"
31	74995327	8	10	12	WIPER, plunger
32	74253169	8	10	12	O-RING, plunger
33	-----	4	5	6	HOUSING (Order item 24)
34	74995323	8	10	12	SEAT, spring
35	74995324	4	5	6	SPRING, plunger
36	74995325	4	5	6	CAPSCREW, shoulder
37	74995326	4	5	6	CAP, end, plunger
38	70912261	8	10	12	CAPSCREW, socket-hd., 1/4"NC x 3/4"
39	74995181	1	1	1	HOUSING, outlet
40	70242555	2	-	-	ROD, tie
	77109514	-	2	-	ROD, tie
	77109516	-	-	2	ROD, tie
	70910323	4	4	4	NUT, 5/16"NC
41	70242558	1	-	-	ROD, tie
	77109515	-	1	-	ROD, tie
	77109517	-	-	1	ROD, tie
	70910123	2	2	2	NUT, 3/8"NF



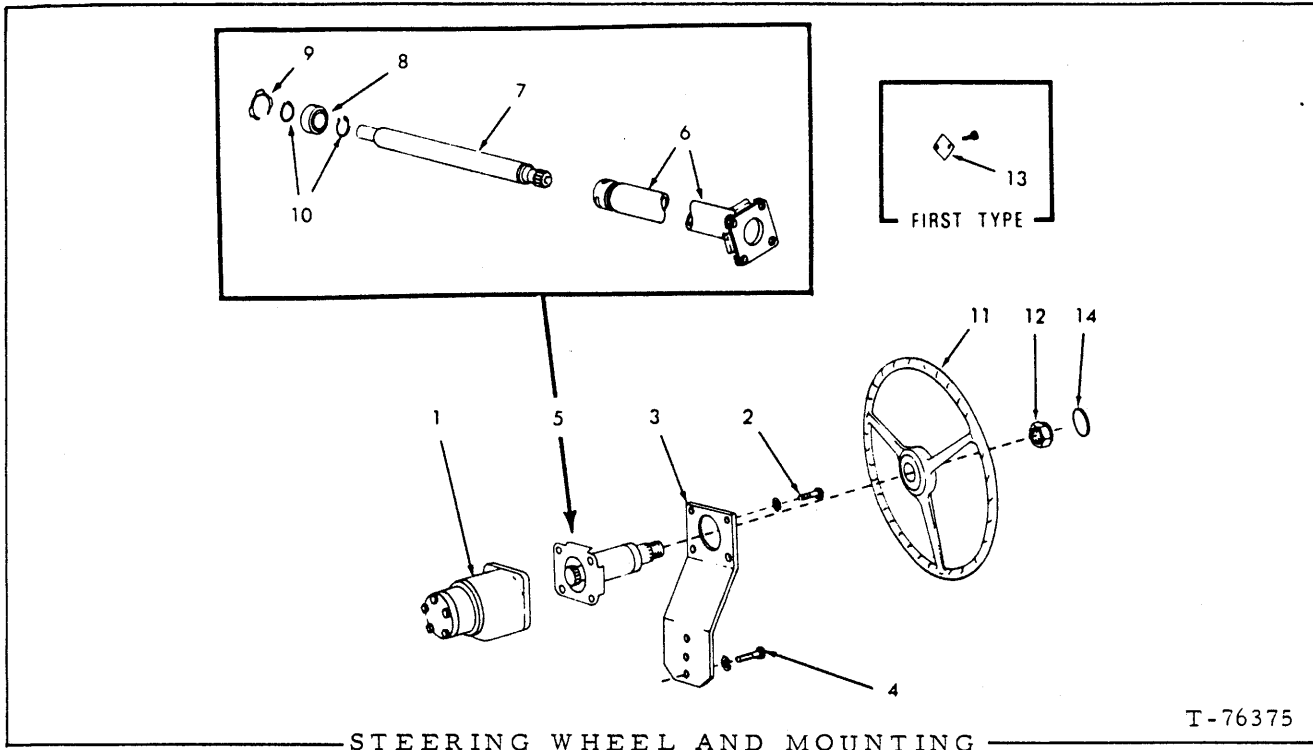
HYDRAULIC CONTROLS

T-76349

* 4 section valve. Standard
 ** 5 section valve. Special
 *** 6 section valve. Special

ITEM	PART NO.	QUANTITY			DESCRIPTION
		*	**	***	
1	-----	1	1	1	VALVE ASSY., control (See page 134)
	70927173	3	3	3	CAPSCREW, 3/8"NC x 1-1/8"
	70921565	1	1	1	CAPSCREW, 3/8"NC x 1-1/2"
	70910287	4	4	4	LOCKWASHER, 3/8"
	70911026	1	1	1	NUT, 3/8"NC
2	70679080	1	1	1	SHAFT, lever pivot
	70910287	2	2	2	LOCKWASHER, 3/8"
	70911026	2	2	2	NUT, 3/8"NC
3	70679103	1	1	1	LEVER ASSY., moldboard lift control (right)
4	70673139	1	1	1	LEVER ASSY., moldboard lift control (left)
5	70673137	1	1	1	LEVER ASSY., wheel lean control
6	70679102	1	1	1	LEVER ASSY., power circle turn control
7	70679097	-	1	1	LEVER ASSY., fifth section control
8	70679098	-	-	1	LEVER ASSY., sixth section control
9	70679078	4	5	6	BUSHING, lever
10	70091862	4	5	6	KNOB
11	70922868	4	5	6	PIN, yoke
	70911114	4	5	6	WASHER, plain, SAE std., 1/4"
	70904001	4	5	6	PIN, cotter, 3/32" x 1/2"

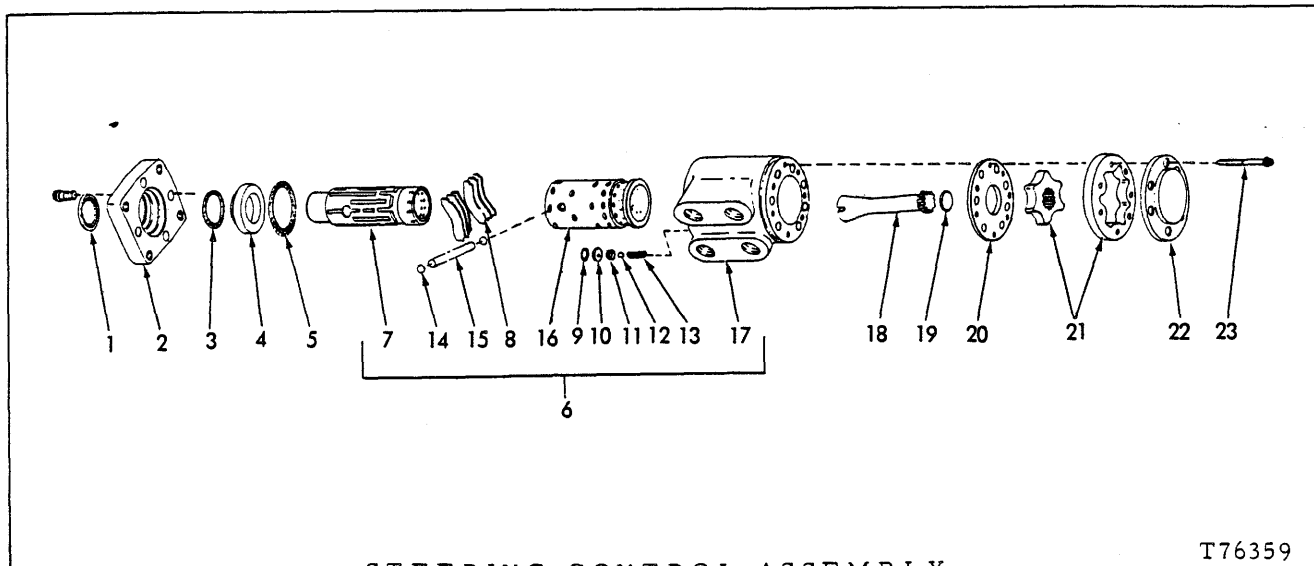
Each
Includes
Item 9



ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	CONTROL ASSY., steering (See page 138)
2	70922287	4	CAPSCREW, 3/8" NC x 1-3/4"
	70910287	4	LOCKWASHER, 3/8"
3	70686083	1	SUPPORT, gear steering
4	70927204	2	CAPSCREW, 1/2" NF x 1"
	70912441	2	LOCKWASHER, 1/2"
5	71006535	1	COLUMN ASSY., steering (Includes items 6 thru 10)
6	71134827	1	TUBE, mounting
7	71134829	1	SHAFT, steering
8	74994913	1	BEARING, shaft
9	74995371	1	RING, retaining
10	71134841	2	RING, snap
11	{ 70639984	1	WHEEL, steering (Graders prior to unit #01736)
	{ 70698431	1	WHEEL, steering (Grader unit #01736 and up)
12	70208584	1	NUT, wheel attaching
13	{ 70246724	1	EMBLEM, trademark ("Allis-Chalmers" logo)
	{ 70694683	1	EMBLEM, trademark ("Fiat-Allis" logo)
	70918698	2	SCREW, thread-cutting, #8 x 1/2"
14	70698432	1	CAP (Grader unit #01736 and up)

NOTE: See PAINTING AND MARKING for transfer

(Revised July 1975)



STEERING CONTROL ASSEMBLY

T76359

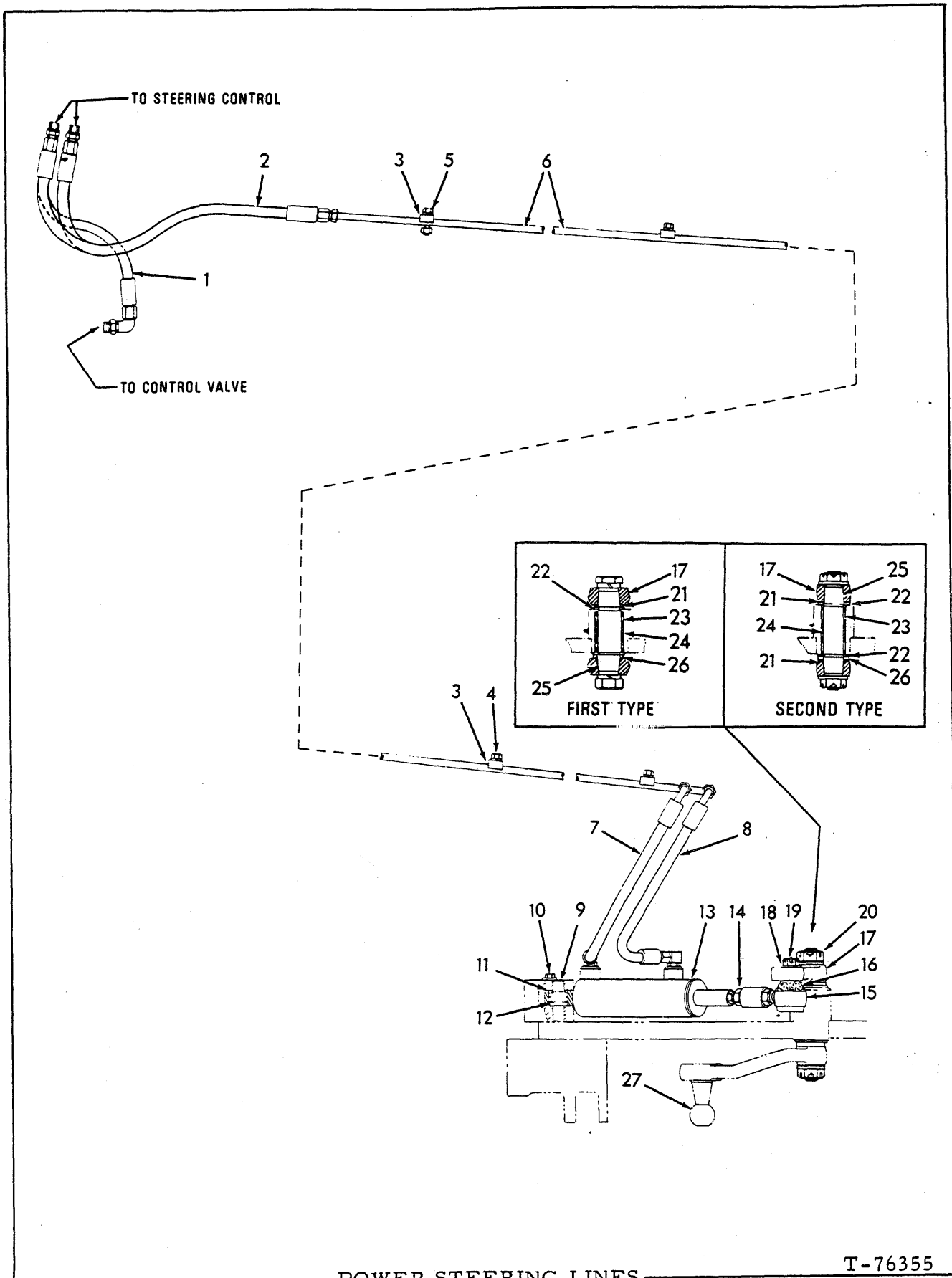
USAGE: See page 137

ITEM	PART NO.	QTY.	DESCRIPTION
-	70675501	1	CONTROL ASSY, steering (Includes items 1 thru 23)
1	73005895	1	SEAL, control spool (outer)
2	70239181	1	PLATE,
	70923334	4	CAPSCREW, 12-pt., 5/16"NC x 5/8"
3	70239191	1	SEAL, control spool (inner)
4	70239183	1	BUSHING, control spool
5	70239192	1	SEAL, bushing
6	70679188	1	HOUSING ASSY. (Includes items 7 thru 17)
7	-----	1	SPOOL, control (Not serviced separately. Order item 6)
8	70239197	6	SPRING, centering
9	70923559	1	O-RING, plug
10	70239195	1	PLUG, seat retaining
11	70239189	1	SEAT, check ball
12	70921874	1	BALL, check
13	70239188	1	SPRING, compression
14	70679184	2	DISC, cross pin
15	70239176	1	PIN, cross
16	-----	1	SLEEVE, control (Not serviced separately. Order item 6)
17	-----	1	HOUSING, main (Not serviced separately. Order item 6)
18	71132770	1	SHAFT, drive
19	70679187	1	SPACER, shaft

(Continued)

STEERING CONTROL ASSEMBLY (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
20	74998258	1	PLATE, wear
21	70679185	1	GEROTOR SET (Serviced only as a unit)
22	74998320	1	CAP, rear
23	70679186	7	SCREW, cap attaching



POWER STEERING LINES

ITEM	PART NO.	QTY.	DESCRIPTION
- 1	70673120	1	HOSE, control to valve (See HOSE PARTS)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	70924786	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 7/8"NF male end (Includes O-RING)
	70921349	1	O-RING, connector
	70921205	1	O-RING, elbow
2	70673121	2	HOSE, control to cylinder (upper)(See HOSE PARTS)
	70921409	2	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	70921349	2	O-RING, connector
3	77109141	4	BLOCK, tube supporting
4	70927173	3	CAPSCREW, 3/8"NC x 1-1/8"
5	70921565	1	CAPSCREW, 3/8"NC x 1-1/2"
	70910287	4	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
6	70673117	2	TUBE, control to cylinder
7	70673119	1	HOSE, control to cylinder (Lower. Cylinder extend) (See HOSE PARTS)
	70921402	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF male end (Includes washer, nut and O-RING)
	70921349	1	O-RING, elbow
8	70673118	1	HOSE, control to cylinder (Lower. Cylinder retract) (See HOSE PARTS)
	70921402	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF male end (Includes washer, nut and O-RING)
	70921349	1	O-RING, elbow
9	77108282	1	PIN, cylinder mounting
10	70922925	1	CAPSCREW
	70911986	1	WASHER
11	77103616	1	BEARING, cylinder pivot
12	70677422	1	SPACER, bearing
13	-----	1	CYLINDER ASSY. (See pages 142A, 143)
	70914465	1	FITTING, lubricating, 1/8"NPT
	70901421	1	NUT, jam, 7/8"NC
14	70677421	1	ADAPTER, cylinder to socket
15	70677397	1	SOCKET ASSY. (Includes items 16 and 19)
	70906909	1	NUT, jam, 7/8"NF
	70900807	1	PIN, cotter, 1/8" x 1-1/4"
16	70677396	1	BOOT, dust shield
17	70677447	1	ARM, steering (upper)
18	70912018	1	WASHER, upper steering arm
19	70917362	1	NUT, socket attaching (5/8"NF)
20	70906911	2	NUT, arm retaining (1-1/8"NF)
	73110742	2	WASHER
	70925101	2	NUT, arm retaining (1-1/8" slotted jam)
	70926206	2	WASHER
	70904002	2	PIN, cotter, 1/8" x 2"

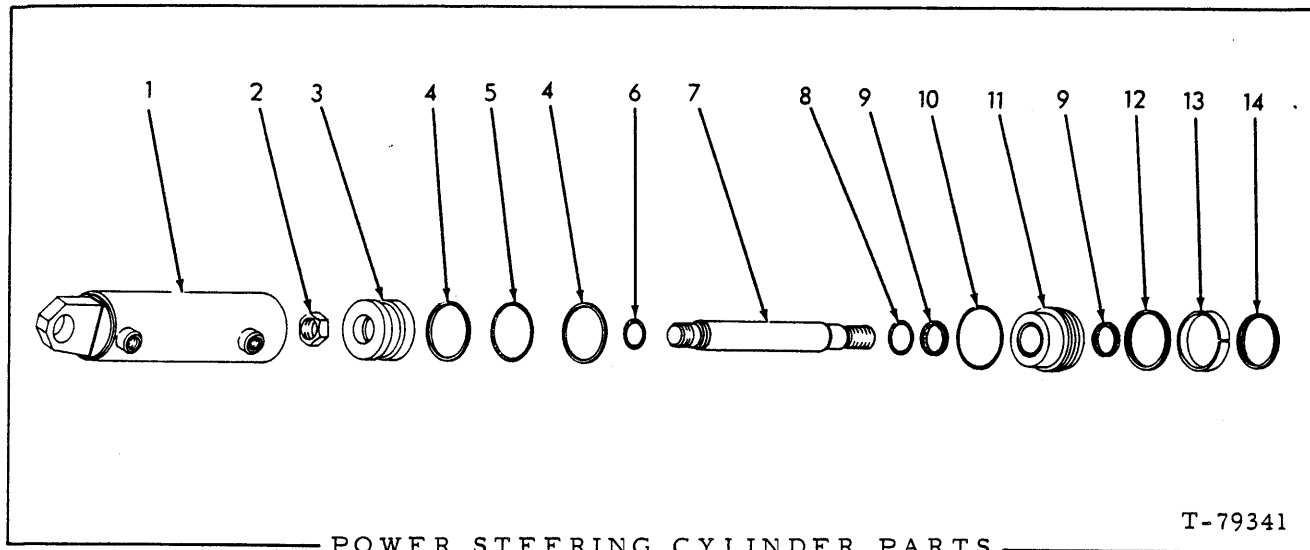
} Graders prior to unit #02306

} Grader unit #02306 and up

(Continued)

POWER STEERING LINES (Continued)

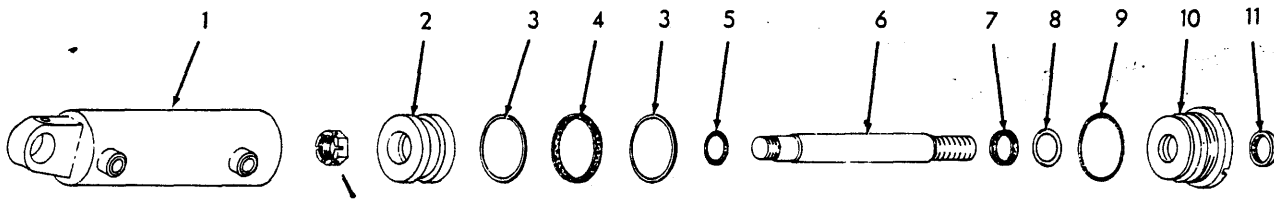
ITEM	PART NO.	QTY.	DESCRIPTION
21	73117550	2	SHIM (.008" thk.)
	73117551	2	SHIM (.020" thk.)
	73117552	2	SHIM (.040" thk.)
	73117553	2	SHIM (.080" thk.)
			} Use as required
22	70682990	2	WASHER, wear
23	70066362	2	BEARING, needle
24	77109848	1	SPACER, bearing
25	-----	1	SHAFT, arm pivot (non-drilled ends)(Graders prior to unit #02306. Order 1 SHAFT 73108563, 2 each NUT 70925101, WASHER 70929704 and PIN 70904002)
	73117149	1	SHAFT, arm pivot (drilled ends)(Grader unit #02306 and up)
26	73117555	1	WASHER, spacing
27	-----	1	ARM, steering (lower)(See FRONT WHEEL SPINDLES AND LINKAGE)



USAGE: Graders, serial No. 24A01654, 56Y02001 and up. See page 141.

ITEM	PART NO.	QTY.	DESCRIPTION
-	70692964	1	CYLINDER ASSY. (Includes items 1 thru 11)
1	70695549	1	TUBE, cylinder
2	70695545	1	NUT
3	70695543	1	PISTON
4	70695546	2	□ WASHER, back-up
5	70923651	1	□ O-RING, piston
6	70923574	1	□ O-RING, rod
7	70695548	1	ROD
8	70923648	1	□ O-RING
9	70695547	2	□ WIPER, rod
10	70924158	1	□ O-RING, head
11	70695544	1	HEAD (Includes bushing)
12	70927819	1	RING, snap
13	70695428	1	SPACER
14	70930922	1	RING, snap
15	73112072	1	REPAIR KIT, cylinder (Includes items 4 thru 6 and 8 thru 10)

□ Components of item 15

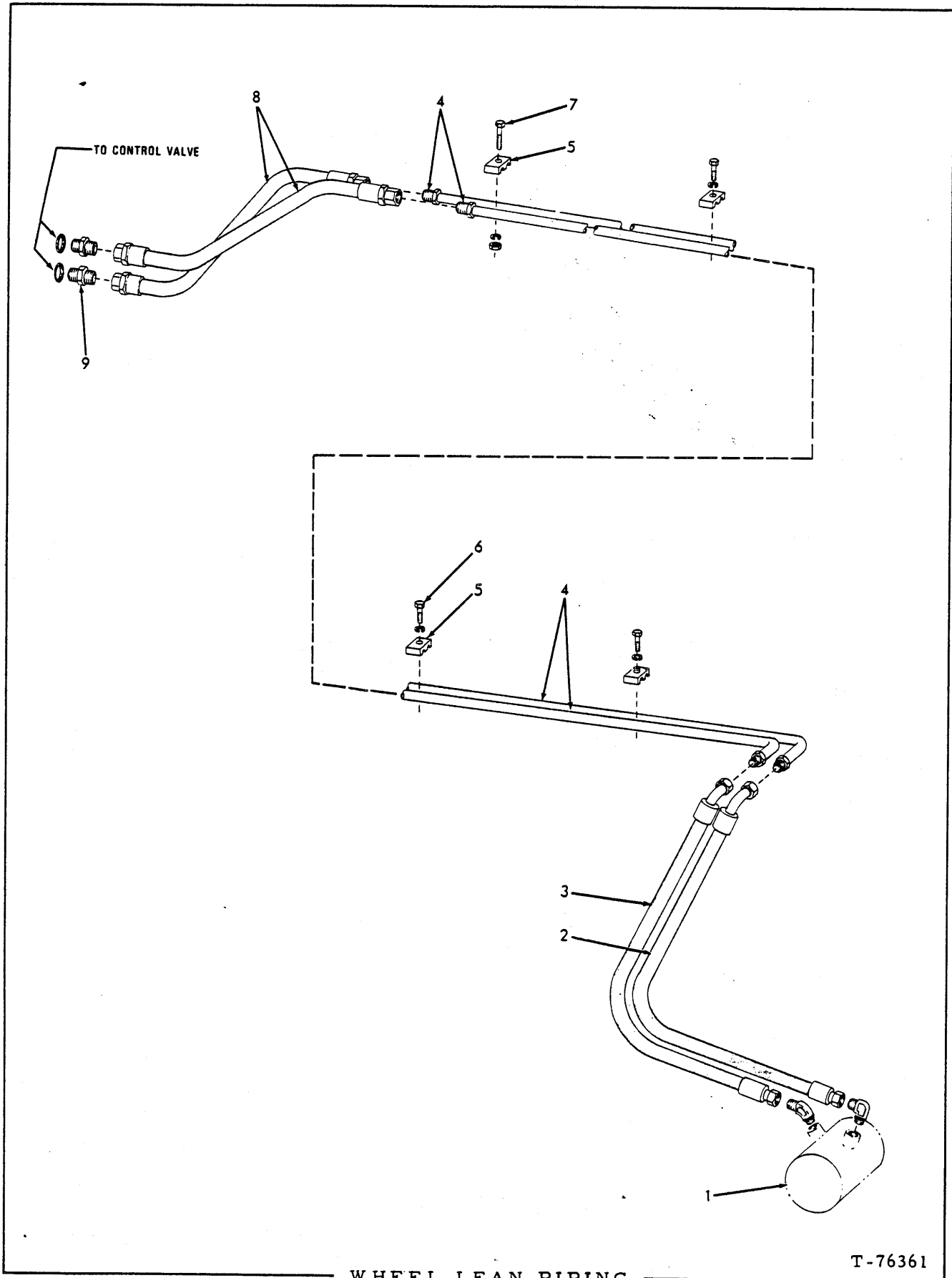


T-76360

POWER STEERING CYLINDER PARTS

USAGE: See page 141. All Graders serial No. 75Y00201 and up; also Graders prior to serial No. 24A01654.

ITEM	PART NO.	QTY.	DESCRIPTION
-	70675502	1	CYLINDER ASSY. (Includes items 1 thru 11) (Original equipment. Order CYLINDER ASSY. 70692964)
1	70675554	1	TUBE, cylinder (Order CYLINDER ASSY. 70692964)
2	74753035	1	PISTON
3	74753046	2	☐ WASHER, back-up
4	74753045	1	☐ RING, sealing
5	70923934	1	☐ O-RING, piston
6	74753064	1	ROD, plunger (Order CYLINDER ASSY. 70692964)
	70925103	1	NUT, slotted, 7/8"NC
	70910320	1	PIN, cotter, 5/32" x 1-1/2"
7	74753044	1	☐ RING, sealing
8	74752722	1	WASHER, back-up
9	70923814	1	☐ O-RING, gland nut
10	74753063	1	NUT, gland
11	73112087	1	☐ RING, wiper
12	73112074	1	REPAIR KIT, cylinder (Includes items 3 thru 5, 7, 9 and 11)
			☐ Components of item 12

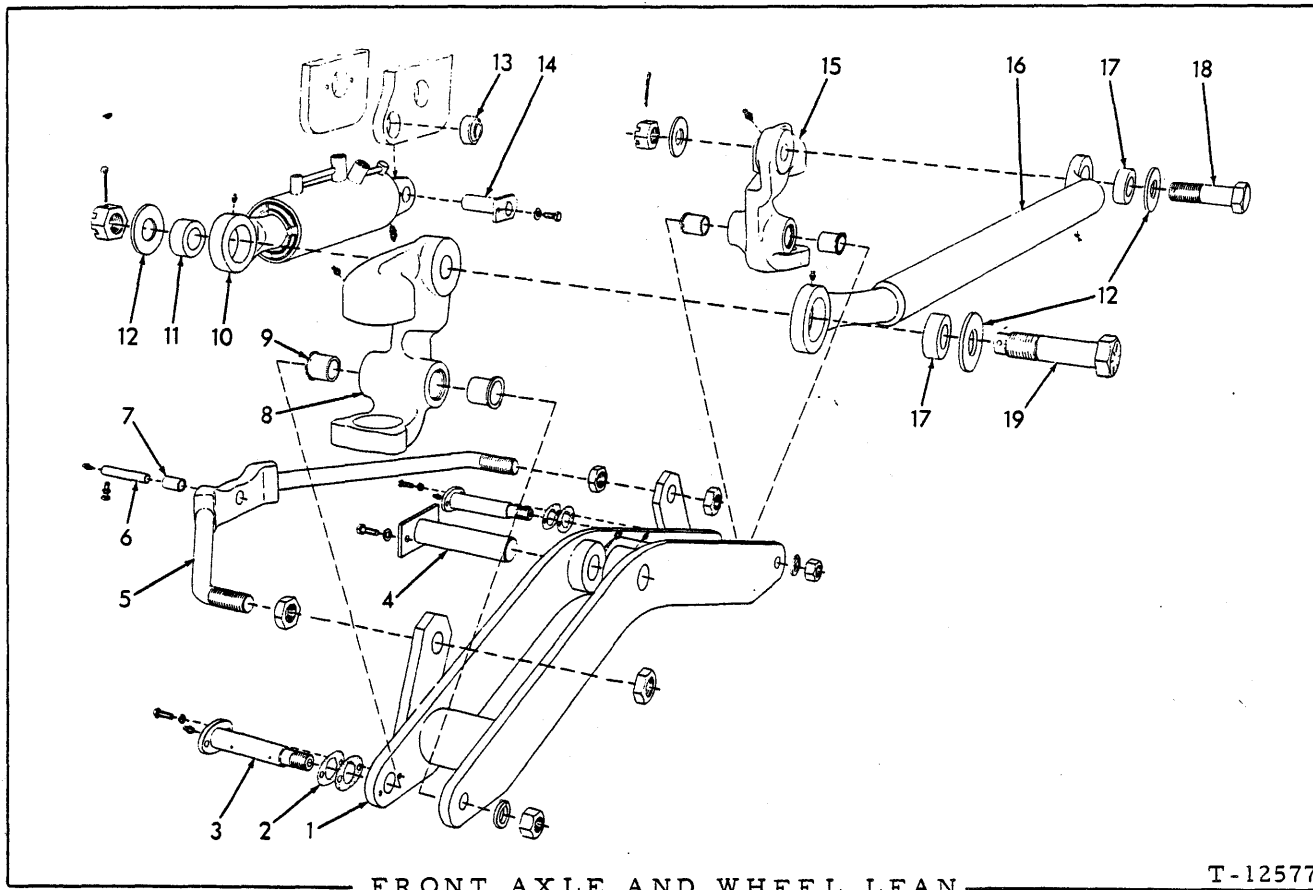


WHEEL LEAN PIPING

T-76361

WHEEL LEAN PIPING

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	See FRONT AXLE AND WHEEL LEAN
2	70673118	1	HOSE, front (cylinder extend)(See HOSE PARTS)
	70921402	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF male end (Includes washer, nut and O-RING)
	70921349	1	O-RING, elbow
3	70673119	1	HOSE, front (cylinder retract)(See HOSE PARTS)
	70922507	1	ELBOW, adjustable, 45°, flare type, 1/2" tube, 3/4"NF male end (Includes washer, nut and O-RING)
	70921349	1	O-RING, elbow
4	70673116	2	TUBE, valve to cylinder
5	77109141	4	CLAMP, tube supporting
6	70927173	3	CAPSCREW, 3/8"NC x 1-1/8"
7	70921565	1	CAPSCREW, 3/8"NC x 1-1/2"
	70910287	4	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
8	70673120	2	HOSE, rear (See HOSE PARTS)
9	70661828	2	CONNECTOR, rear hose (restricted)
	70921349	2	O-RING, connector



FRONT AXLE AND WHEEL LEAN

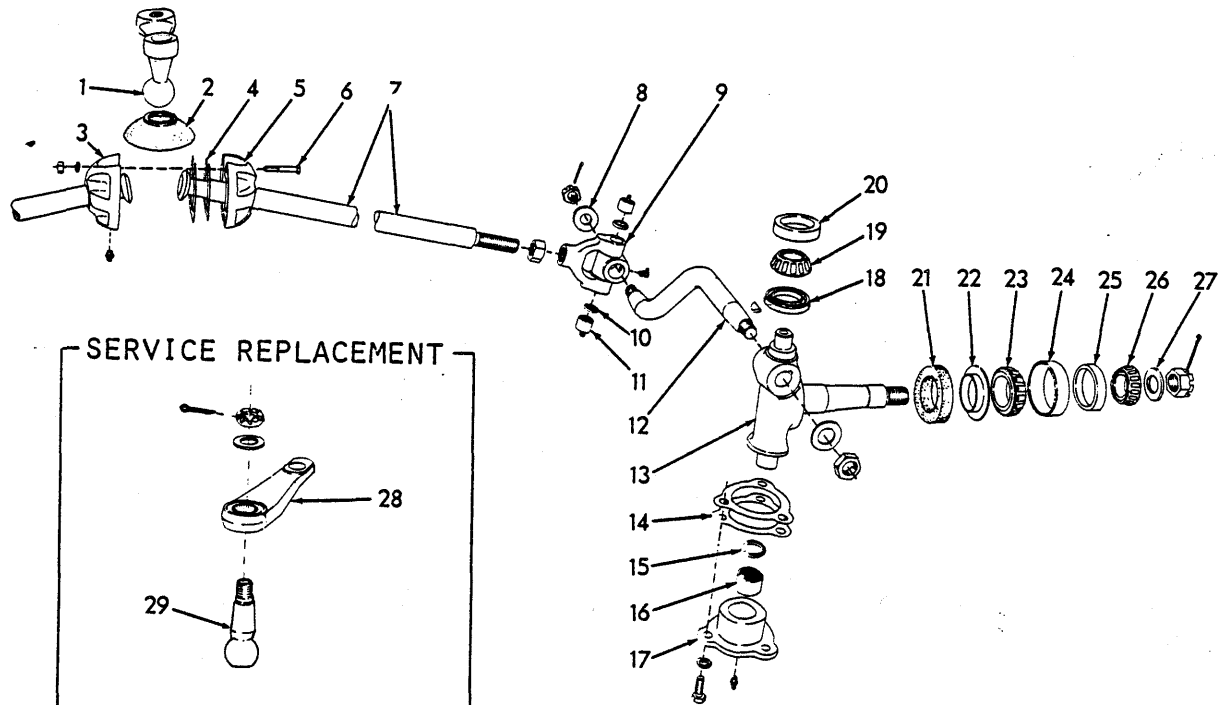
T-12577

ITEM	PART NO.	QTY.	DESCRIPTION
1	77109186	1	AXLE, front
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
2	70052960	10	SHIM, knuckle pivot bolt (Use as required)
3	70082111	2	BOLT, pivot wheel lean knuckle
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
	70914728	2	LOCKWASHER, 1"
	70911047	2	NUT, 1"NF
	70923276	4	CAPSCREW, 3/8"NF x 1-1/8"
	70910287	4	LOCKWASHER, 3/8"
4	70082123	1	PIN, front axle pivot
	70927173	2	CAPSCREW, 3/8"NC x 1"
	70677006	2	WASHER, plain, SAE std., 3/8"
5	70681251	1	ROD ASSY., radius (Includes item 7)
	70912251	4	NUT, jam, 1-1/4"NF
6	70073485	1	PIN, front axle radius rod
	70901279	1	SETSCREW, sq.-hd., cup-pt., 3/8"NC x 1-1/4"
	70911034	1	NUT, jam, 3/8"NC
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
7	70082766	1	BUSHING, radius rod

(Continued)

FRONT AXLE AND WHEEL LEAN (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70082122	1	KNUCKLE ASSY., right (Includes item 9)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
9	70084629	4	BUSHING, wheel lean knuckle
10	-----	1	CYLINDER ASSY., wheel lean (See page 150)
	70912808	1	FITTING, lubricating, straight, 1/4"NF
11	70082176	1	SPACER, connecting link capscrew (1" long)
12	70054889	4	WASHER, connecting link capscrew
13	70078852	1	BEARING, cylinder pivot pin
	70915274	1	FITTING, lubricating, 45°, 1/8"NPT (Screws into frame)
14	70082155	1	PIN, pivot wheel lean cylinder
	70922262	1	CAPSCREW, 3/8"NC x 3/4"
	70677006	1	WASHER, plain, SAE std., 3/8"
15	70082121	1	KNUCKLE ASSY., left (Includes item 9)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
16	70082113	1	LINK, connecting, wheel lean knuckles
	70912808	1	FITTING, lubricating, straight, 1/4"NF
	70919186	1	FITTING, lubricating, 45°, 1/4"NF
17	70601966	2	SPACER, connecting link capscrew (3/4"long)
18	70082175	1	CAPSCREW, left connecting link
	70911061	1	NUT, slotted, 1-1/4"NC
	70901344	1	PIN, cotter, 1/4" x 2"
19	70082174	1	CAPSCREW, right connecting link
	70911061	1	NUT, slotted, 1-1/4"NC
	70901344	1	PIN, cotter, 1/4" x 2"



T-12578

FRONT WHEEL SPINDLES AND LINKAGE

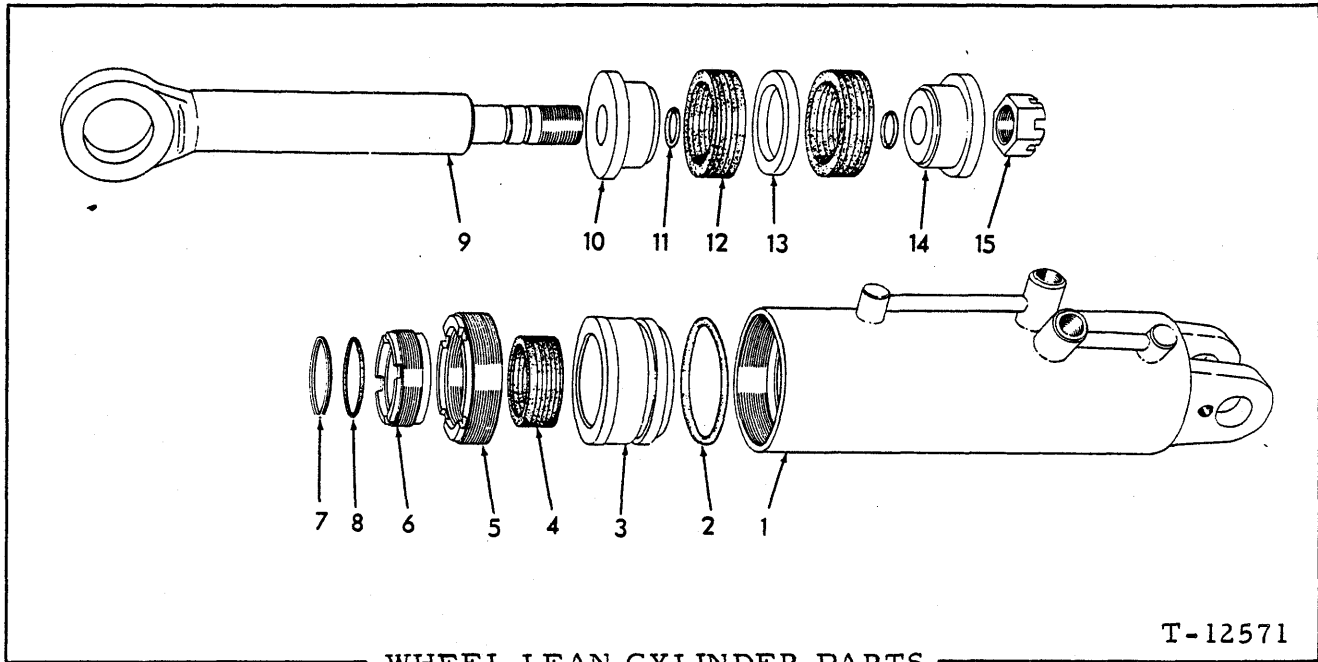
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	ARM, steering (Original equipment. Order items 28,29 and 2 LINK 73115007)
2	70604289	1	SHIELD, steering arm ball pin (neoprene)
3	70653877	1	CAP, steering arm ball pin, right
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
4	70604290	18	SHIM, ball pin cap (Use as required)
5	70653879	1	CAP, steering arm ball pin, left
6	70920995	4	CAPSCREW, ball pin cap (3/8"NC x 2")
	70910287	4	LOCKWASHER, 3/8"
	70910324	4	NUT, 3/8"NC
7	73115007	2	LINK, drag
	70911046	2	NUT, 7/8"NF
8	70602068	2	WASHER, spindle arm (plain)
	70912331	2	NUT, slotted, 3/4"NF
	70900807	2	PIN, cotter, 1/8" x 1-1/4"
9	70080862	2	SWIVEL ASSY., drag link (Each consists of 1 Yoke, 1 Swivel, 1 Pin and items 10 and 11)
	70915019	2	FITTING, lubricating, 90°, 1/4"NF
10	70052662	2	SEAL, oil, drag link swivel
11	70080857	4	BEARING, needle, drag link swivel yoke

(Continued)

FRONT WHEEL SPINDLES AND LINKAGE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
12	77109179	2	ARM, steering, front spindle
	70905126	2	KEY, #15 woodruff, 1/4" x 1"
	70911116	2	WASHER, plain, SAE std., 7/8"
	70914101	2	NUT, jam, 7/8"NF
13	73114437	1	SPINDLE, left front wheel
	73114438	1	SPINDLE, right front wheel
	70911057	2	NUT, castle, 1"NF
	70900809	2	PIN, cotter, 1/8" x 1-3/4"
14	70078854	2	SHIM, needle bearing retainer (.005" thick. Use as required)
	70082108	16	SHIM, needle bearing retainer (.010" thick. Use as required)
15	70053243	2	SEAL, dust, spindle needle bearing
16	70604435	2	BEARING, needle, wheel spindle, lower
17	70082107	2	RETAINER, spindle needle bearing
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
	70920582	6	CAPSCREW, 1/2"NC x 1-1/4"
	70912441	6	LOCKWASHER, 1/2"
18	70082179	2	SEAL, dust, spindle upper bearing
19	70604382	2	CONE ASSY., spindle upper bearing
20	70604383	2	CUP, spindle upper bearing
21	70200050	2	WASHER, spindle (felt)
22	70205430	2	WASHER, felt washer retaining
23	70210548	2	CONE ASSY., spindle inner bearing
24	70210550	2	CUP, spindle inner bearing
25	70210551	2	CUP, spindle outer bearing
26	70210549	2	CONE ASSY., spindle outer bearing
27	70200103	2	WASHER, spindle end
28	73113646	1	ARM
29	73113647	1	BALL
	70927382	1	WASHER
	70900988	1	NUT, slotted, 3/4"NF
	70900813	1	PIN, cotter

} Service replacement



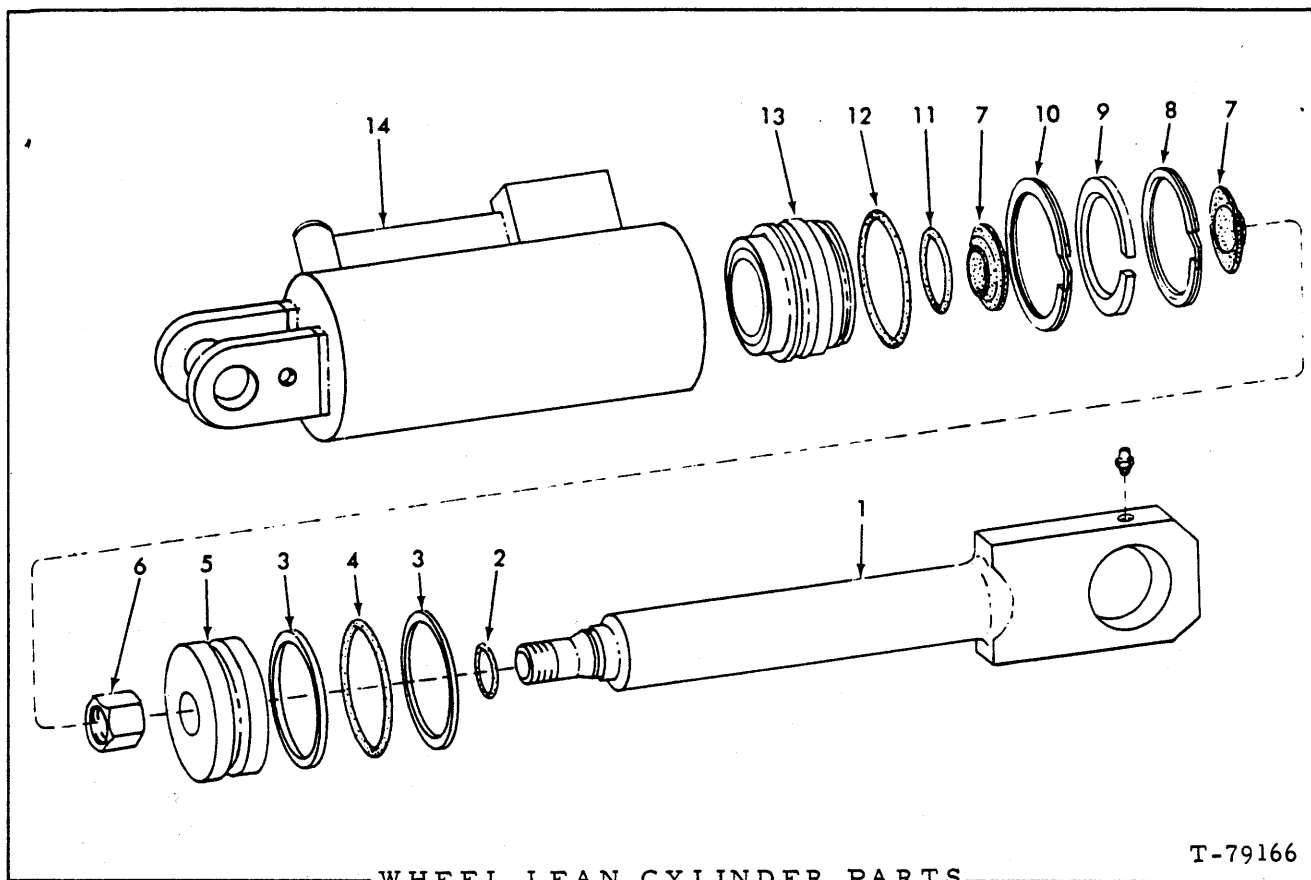
WHEEL LEAN CYLINDER PARTS

T-12571

USAGE: See page 146. First type.

ITEM	PART NO.	QTY.	DESCRIPTION
-	70675520	1	CYLINDER ASSY., wheel lean (Includes items 1 thru 15)(Original equipment. Order CYLINDER ASSY. 70692962)
1	70675518	1	TUBE, cylinder
2	70923830	1	□ O-RING, stuffing box
3	70083551	1	BOX, stuffing
4	70083552	1	□ PACKING ASSY., stuffing box
5	70083554	1	NUT, stuffing box retaining
6	70083637	1	NUT, packing adjustment
7	70080283	1	□ RING, piston rod wiping
8	70923579	1	□ O-RING, piston rod
9	70083560	1	ROD, piston (Order CYLINDER ASSY. 70692962)
10	70083548	1	PISTON, front
11	70923575	2	□ O-RING, piston
12	70083547	2	□ PACKING ASSY., piston
13	70083558	1	WASHER, piston
14	70083546	1	PISTON, rear
15	70912841	1	NUT, slotted, 1-1/4"NF
16	73112077	1	REPAIR KIT, cylinder (Includes items 2, 4, 7, 8, 11 and 12)

□ Components of item 16

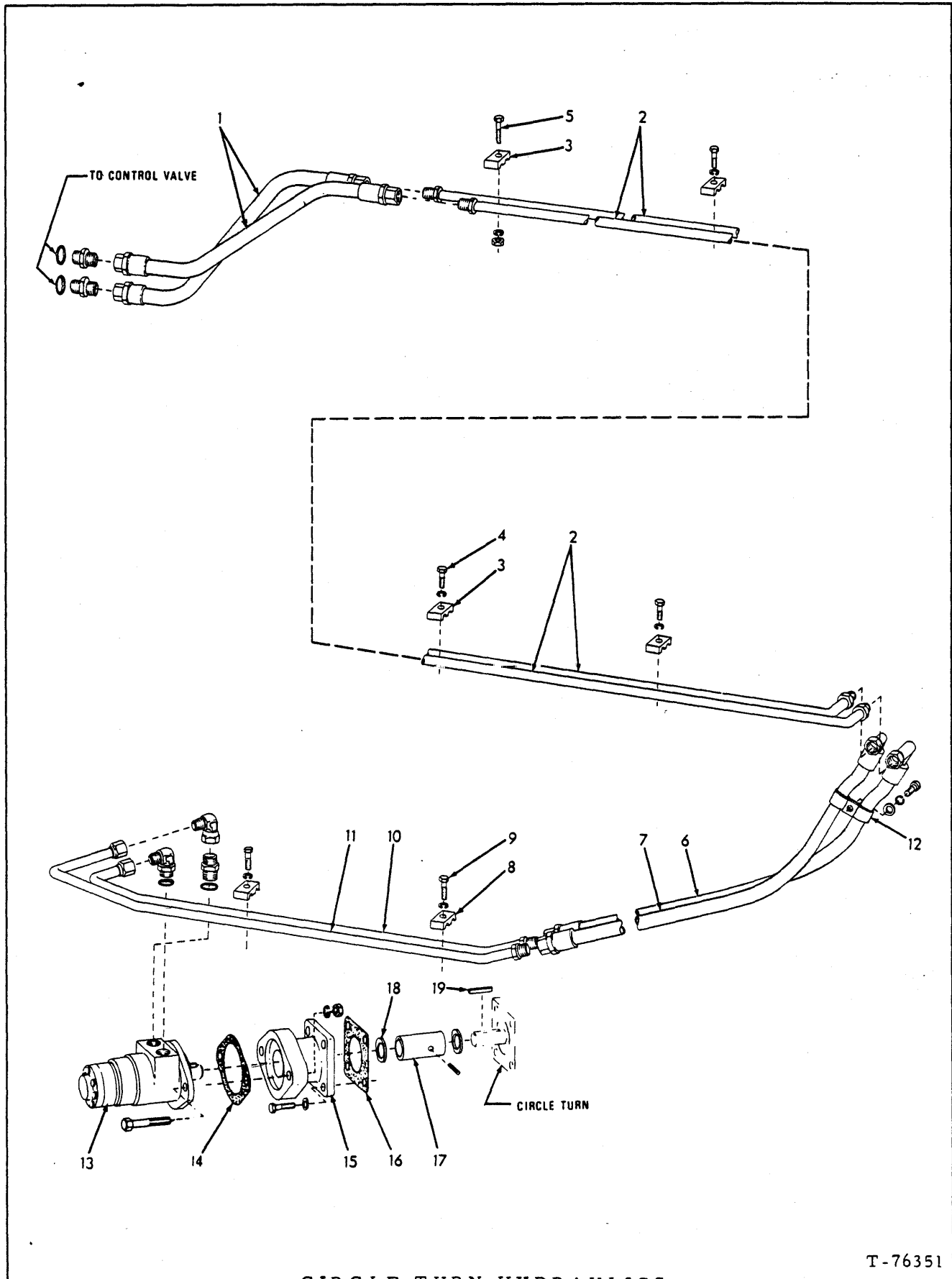


WHEEL LEAN CYLINDER PARTS

T-79166

USAGE: See page 146. Second type

ITEM	PART NO.	QTY.	DESCRIPTION
-	70692962	1	CYLINDER ASSY., wheel lean (Includes items 1 thru 14)
1	70695447	1	ROD, piston
	70912808	1	FITTING, lubricating, straight, 1/4"NF
2	70923648	1	□ O-RING, piston rod
3	70695445	2	□ WASHER
4	70923830	1	□ O-RING, piston
5	70695442	1	PISTON
6	70692599	1	NUT
7	70695446	2	□ WASHER
8	70930930	1	RING, snap
9	70695444	1	SPACER
10	70930929	1	RING, snap
11	70923579	1	□ O-RING
12	70924840	1	□ O-RING
13	70695443	1	HEAD ASSY. (Includes bushing which is not serviced separately)
14	70695448	1	TUBE, cylinder
15	73112075	1	REPAIR KIT, cylinder (Includes items 2 thru 4, 7, 11 and 12)
			□ Components of item 15



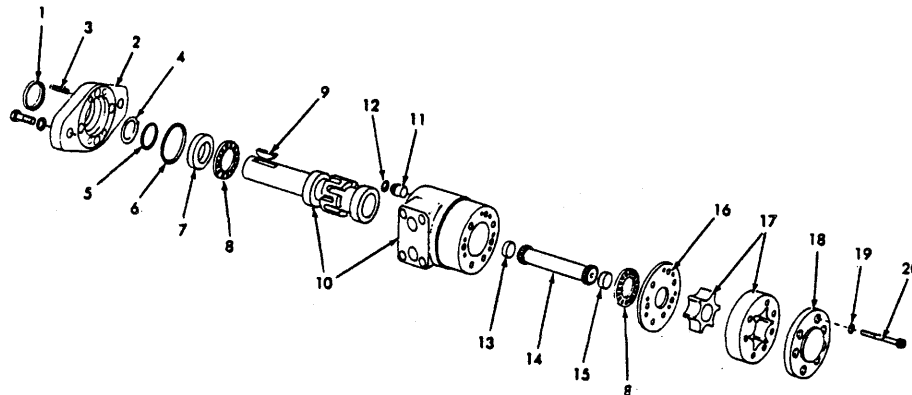
CIRCLE TURN HYDRAULICS

T-76351
(Revised June 1977)

CIRCLE TURN HYDRAULICS

ITEM	PART NO.	QTY.	DESCRIPTION
1	70673120	2	HOSE, rear (20-1/2" long)(See HOSE PARTS)
	70921409	2	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	70921349	2	O-RING, connector
2	70673116	2	TUBE, valve to hydraulic motor (upper)
3	77109141	4	BLOCK, tube supporting
4	70927173	3	CAPSCREW, 3/8"NC x 1-1/8"
5	70921565	1	CAPSCREW, 3/8"NC x 1-1/2"
	70910287	4	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
6	70675542	1	HOSE, front (32" long)(See HOSE PARTS)
7	70675541	1	HOSE, front (31" long)(See HOSE PARTS)
8	70623355	2	CLAMP, tube supporting
9	70927173	2	CAPSCREW, 3/8"NC x 1-1/8"
	70910287	2	LOCKWASHER, 3/8"
10	70675504	1	TUBE, valve to hydraulic motor (lower)(short)
	70924786	1	ELBOW, adjustable, 90°, flare type, 1/2" tube 7/8"NF male end (Includes O-RING)
	70921205	1	O-RING, elbow
11	70675505	1	TUBE, valve to hydraulic motor (lower)(long)
	70921279	1	ELBOW, flare type, swivel nut, 1/2" tube
	70923717	1	CONNECTOR, flare type, 1/2" tube, 7/8"NF male end (Includes O-RING)
	70921205	1	O-RING, connector
12	70094467	2	CLIP, hose supporting
	70922300	1	CAPSCREW, 3/8"NC x 3/4"
	70910287	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
13	-----	1	MOTOR ASSY. (See page 154)
	70920585	2	CAPSCREW, 1/2"NC x 1-3/4" } Graders prior to unit #00679
	70912441	2	LOCKWASHER, 1/2" }
	70924864	2	CAPSCREW, 1/2"NC x 2-1/4" } Grader unit #00679 and up
	70912441	2	LOCKWASHER, 1/2" }
	70911048	2	NUT, 1/2"NC }
14	70674961	1	GASKET, motor to adapter
15	70675353	1	ADAPTER, motor to circle turn (Graders prior to unit #00679)
	70681423	1	ADAPTER, motor to circle turn (Grader unit #00679 and up)
	70921076	4	CAPSCREW, 3/8"NC x 1-1/4"
	70910287	4	LOCKWASHER, 3/8"
16	70675475	1	GASKET, adapter to circle turn
17	70671531	1	COUPLING, shaft
	70916171	1	PIN, spring, 1/4" x 1-1/2"
18	70675022	2	WASHER
19	70905126	1	KEY, #9 woodruff, 3/16" x 3/4"

(Revised June 1977)



T-76348

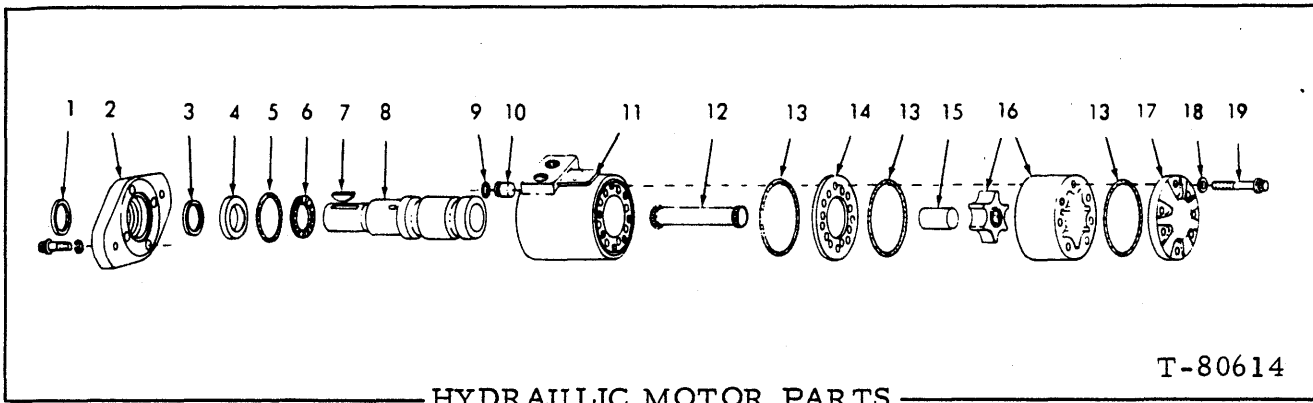
HYDRAULIC MOTOR PARTS

USAGE: Graders prior to approximately October 1974. See page 153

ITEM	PART NO.	QTY.	DESCRIPTION
-	70675608	1	MOTOR ASSY., hydraulic (Includes items 1 thru 20)
1	-----	1	☐ SEAL, shaft
2	70678938	1	FLANGE, mounting
	70669660	4	CAPSCREW, 12-pt., 5/16"NF
	70669667	4	LOCKWASHER, internal tooth, 5/16"
3	70916227	4	PIN, spring, 1/4" x 1"
4	-----	1	☐ WASHER, back-up
5	-----	1	☐ SEAL, adapter
6	-----	1	☐ SEAL, adapter to housing
7	70669650	1	RACE, bearing
8	70669653	2	BEARING, thrust
9	70905126	1	KEY, #9 woodruff, 3/16" x 3/4"
10	70669647	1	HOUSING ASSY. (Consists of matched HOUSING and SHAFT)(Serviced only as a unit)
11	70669648	1	PLUG, housing
12	-----	1	☐ O-RING, plug
13	70669649	1	SPACER, shaft (front)
14	70669654	1	SHAFT, drive
15	70239179	1	SPACER, shaft (rear)
16	74998258	1	PLATE, spacing
17	70678939	1	GEROTOR SET
18	74998320	1	CAP, end
19	-----	7	☐ WASHER, sealing
20	70678940	7	CAPSCREW, 12-pt., 5/16"NC x 2-1/4"
21	70669706	1	REPAIR KIT, motor (Includes items 1, 4 thru 6 12 and 19)

☐ Components of item 21

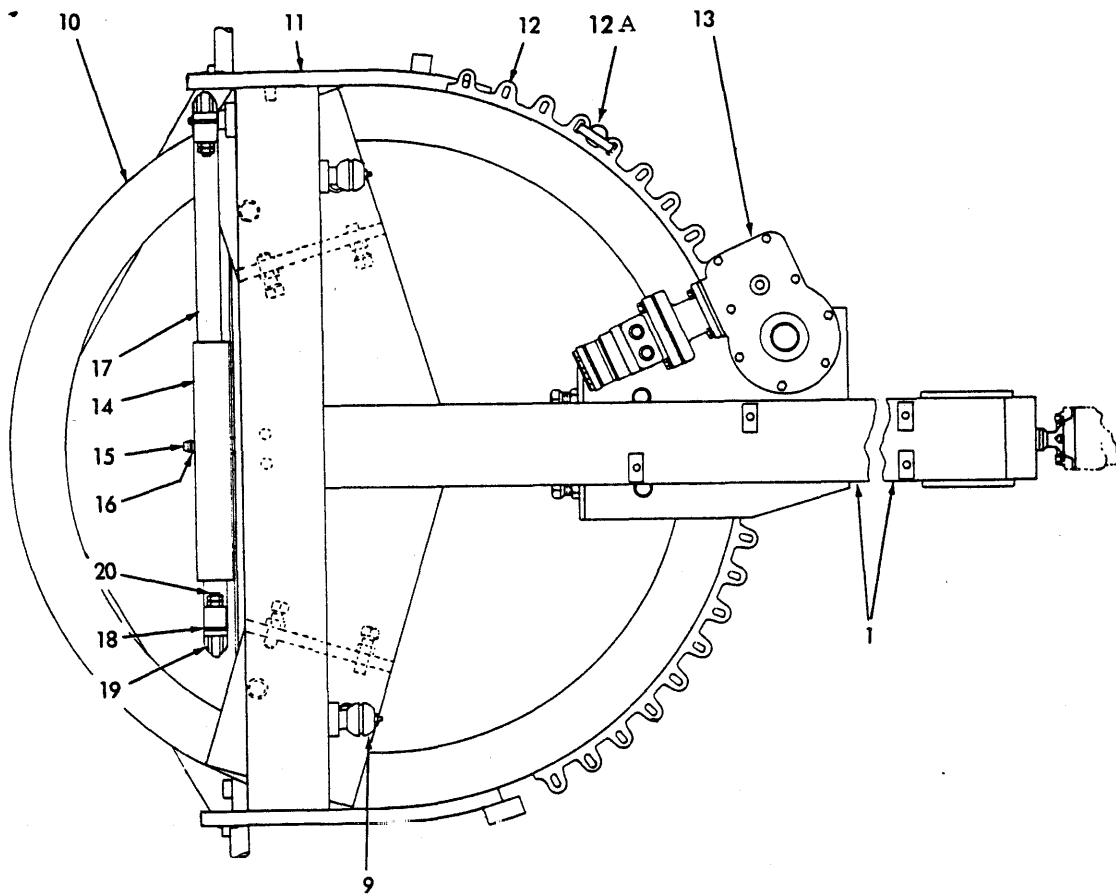
(Revised June 1977)



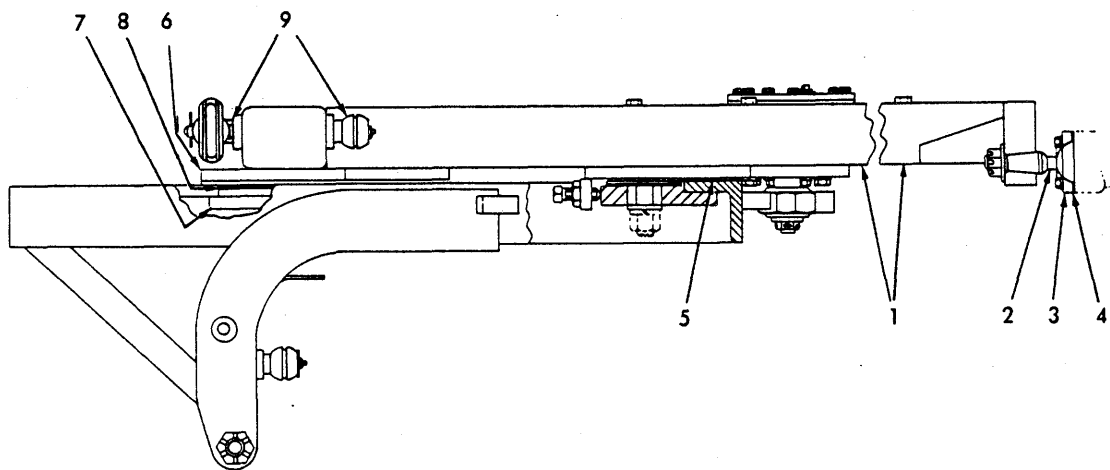
HYDRAULIC MOTOR PARTS

USAGE: Effective approximately October 1974. See page 153

ITEM	PART NO.	QTY.	DESCRIPTION
-	73110300	1	MOTOR ASSY., hydraulic (Includes items 1 thru 19)
1	-----	1	☐ SEAL
2	73110294	1	FLANGE
	70669660	4	CAPSCREW, 12-pt., 5/16" NF
3	-----	1	☐ SEAL
4	73110291	1	RACE
5	-----	1	☐ O-RING
6	73110295	1	BEARING
7	70932825	1	KEY
8	73110301	1	SHAFT, output
9	-----	1	☐ O-RING
10	70669648	1	PLUG
11	73110302	1	HOUSING
12	70669654	1	SHAFT, drive
13	-----	3	☐ O-RING
14	73110296	1	PLATE
15	73066939	1	SPACER
16	73110297	1	GEROTOR SET
17	73110298	1	CAP, end
18	-----	7	☐ WASHER
19	70678940	7	CAPSCREW, 12-pt., 5/16" NC x 2-1/4"
20	73110299	1	REPAIR KIT, motor (Includes items 1, 3, 5, 9, 13 and 18)
			☐ Components of item 20



TOP VIEW



SIDE VIEW

MOLDBOARD DRAWBAR AND CIRCLE

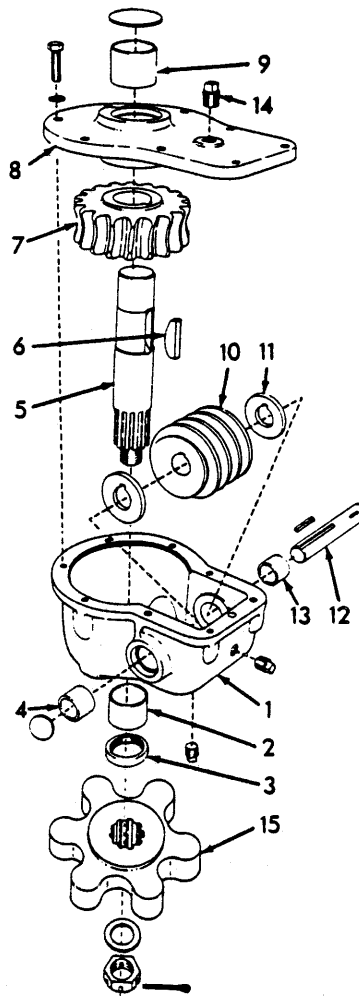
T-76354

(Revised May 1971)

MOLDBOARD DRAWBAR AND CIRCLE

ITEM	PART NO	QTY	DESCRIPTION
1	70673319	1	DRAWBAR, moldboard (Includes item 9 ; also 6 NUTS 70906441)
	70925671	6	CAPSCREW, 7/8" NC x 2-1/2"
	70901421	6	NUT, jam 7/8"NC
2	70673320	1	PIN, ball
	70900822	1	WASHER, plain
	70924447	1	NUT, slotted, 1"NF
	70900813	1	PIN, cotter
3	77125076	1	CAP, ball pin
	70920582	4	CAPSCREW, 1/2"NC x 1-1/4" } Graders prior to unit #01373
	70691327	1	CAP, ball pin
	70920585	4	CAPSCREW, 1/2"NC x 1-3/4" } Graders unit #01373 and up
	70912441	4	LOCKWASHER, 1/2"
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
4	77125077	10	SHIM, ball pin adjusting (Use as required)
5	70079187	1	PLATE, wear, front
6	70055484	2	PLATE, wear, rear
7	70055482	3	GUIDE, circle
	70602663	6	WASHER, plain
	70914729	6	LOCKWASHER, 1-1/8"
	70906441	6	NUT, 1-1/8"
8	70055472	39	SHIM, circle guide (Use as req'd)
9	70643997	3	BALL, moldboard lift and side shift (Requires welding to drawbar)
	70914465	3	FITTING, lubricating, straight, 1/8"NPT
10	70675498	1	CIRCLE, moldboard (Includes items 11 and 12)
	70915276	1	FITTING, lubricating, 90°, 1/8"NPT
11	70656852	1	ARM, left
	70082548	1	ARM, right
12	70078434	3	SEGMENT, circle rack (8 teeth)
12A	70682172	1	STOP
13	-----	1	CIRCLE TURN ASSY. (See page 158)
	70921535	5	CAPSCREW, 5/8"NC x 1-3/4"
	70912942	5	LOCKWASHER, 5/8"
14	70061851	1	LINK, shifting
15	70602224	1	PIN, coupling, shifting linkage
16	70617855	1	CLIP, retaining, coupling linkage pin
17	70061852	1	ROD, shifting
18	70053992	16	SHIM, shifting linkage cap (Use as required)
19	70053986	2	CAP, shifting linkage
20	70605665	2	U-BOLT
	70911049	8	NUT, jam, 5/8"NF

(Revised May 1978)



T-5937

CIRCLE TURN PARTS

USAGE: See page 157

ITEM	PART NO.	QTY.	DESCRIPTION
-	70675480	1	CIRCLE TURN ASSY. (Includes items 1 thru 14) (Graders prior to unit #02016)
-	70699270	1	CIRCLE TURN ASSY. (Includes items 1 thru 14) (Grader unit #02016 and up)
1	70675479	1	HOUSING ASSY. (Includes items 2 and 4)
	70901653	2	PLUG, pipe, 3/8" NPT
	70910014	1	PLUG, expansion, 1-1/2" diam.
2	70078422	1	BUSHING, worm gear shaft
3	70078502	1	SEAL, oil, worm gear shaft
4	70078424	1	BUSHING, worm shaft
5	70645060	1	SHAFT, worm gear (Graders prior to unit #02016)
	70699269	1	SHAFT, worm gear (Grader unit #02016 and up)
6	70078431	1	KEY, worm gear
7	70078425	1	GEAR, worm

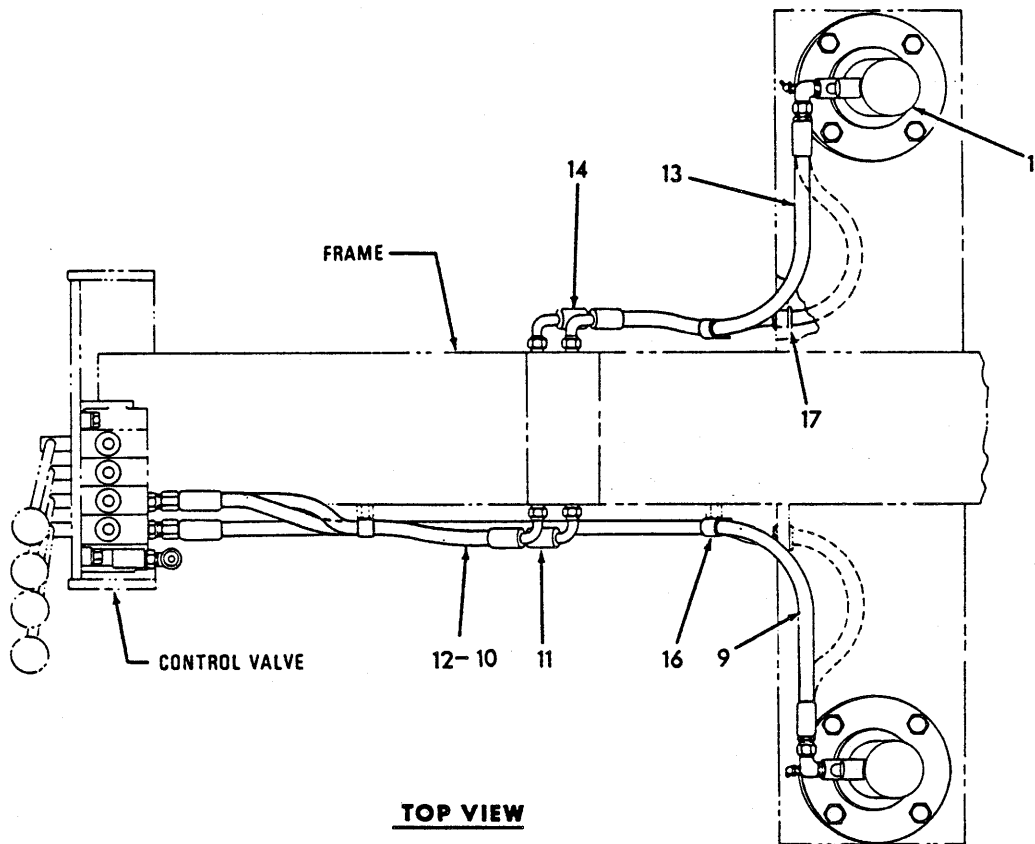
(Continued)

(Revised September 1976)

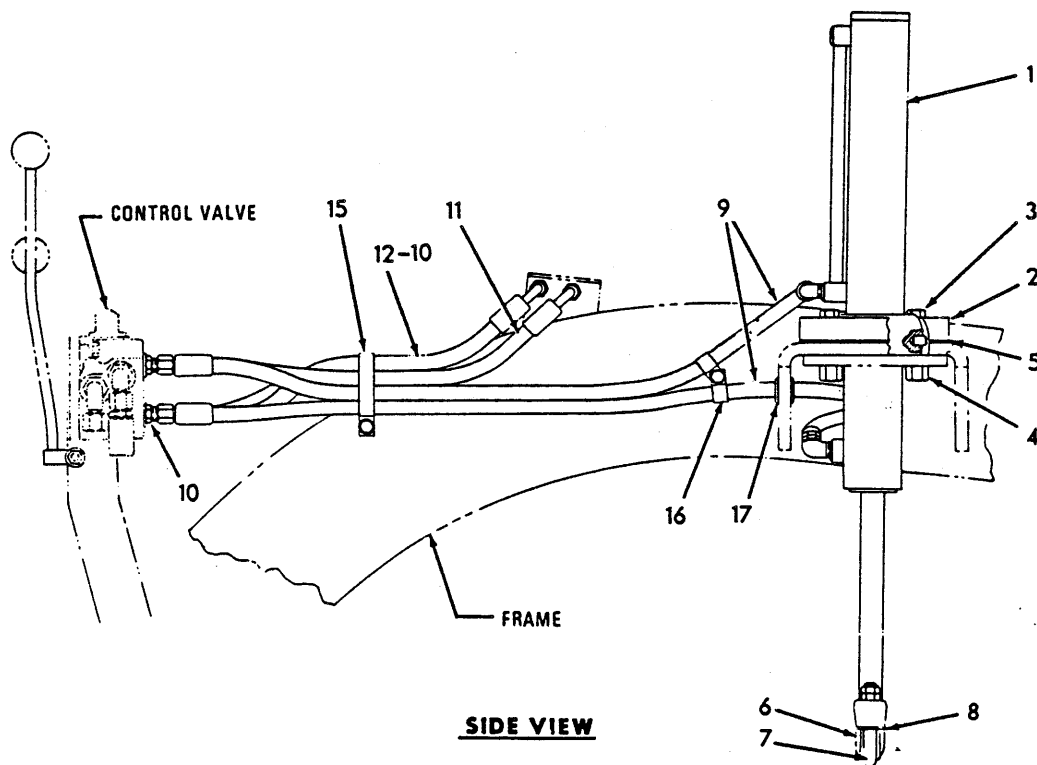
CIRCLE TURN PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70079277	1	COVER ASSEMBLY (Includes item 9)
	70910015	1	PLUG, expansion, 2-1/8" diam.
	70921076	8	CAPSCREW, 3/8"NC x 1-1/4"
	70910287	8	LOCKWASHER, 3/8"
9	70078423	1	BUSHING, housing cover
10	70078426	1	WORM
11	70078419	2	WASHER, thrust
12	70675093	1	SHAFT, worm
	70905857	1	KEY, straight, 1/4" x 1/4" x 1-3/4"
13	70078424	1	BUSHING, worm shaft
14	70605207	1	PLUG, vent
15	70645059	1	PINION
	70602094	1	WASHER, plain
	70911174	1	NUT, slotted, 1"NF
	70918463	1	PIN, cotter, 1/4" x 2"

} Not included in
CIRCLE TURN ASSY.



TOP VIEW



SIDE VIEW

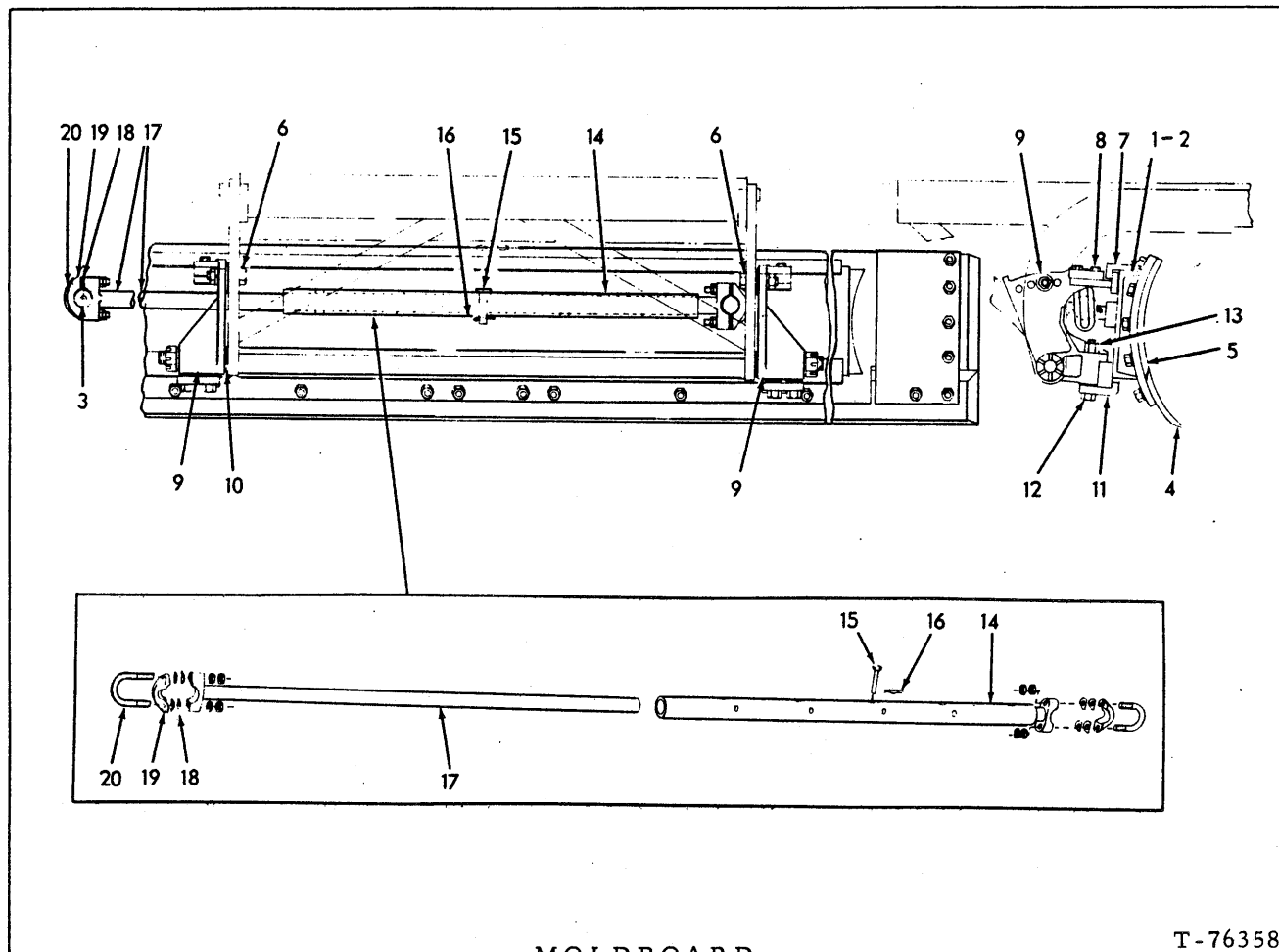
MOLDBOARD LIFT

T-76353

MOLDBOARD LIFT

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	2	CYLINDER ASSY., hydraulic (See pages 170 and 171)
2	70065819	2	CAP, pivot
	70915275	2	FITTING, lubricating, 65°, 1/8"NPT
3	70927532	8	CAPSCREW, 5/8"NF x 3-1/2"
4	70072366	8	NUT, high, 5/8"NF
5	{ 70065818	16	SHIM, pivot cap (1/32" thick)
	{ 70639069	4	SHIM, pivot cap (.020" thick)
			} Use as required
6	70053986	2	CAP, ball
7	70605665	2	U-BOLT, 5/8"NF
	70911049	8	NUT, jam, 5/8"NF
8	70053992	16	SHIM, ball cap (1/32" thick. Use as required)
9	70673123	2	HOSE, right cylinder (See HOSE PARTS)
	70919206	2	ELBOW, flare type, 1/2" tube, 3/8"NPT male)(Graders prior to unit #01625)
	70921402	2	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF male end (Grader unit #01625 and up)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	70921349	1	O-RING, connector
10	77108993	2	CONNECTOR, restricted (Includes O-RING)
	70921349	2	O-RING, connector
11	70649623	1	HOSE, frame to valve, left cylinder (drop)(See HOSE PARTS)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male (Includes O-RING)
	70921349	1	O-RING, connector
12	70649629	1	HOSE, frame to valve, left cylinder (lift)(See HOSE PARTS)
13	70649623	1	HOSE, left cylinder to frame (drop)(See HOSE PARTS)
	70919206	1	ELBOW, flare type, 1/2" tube, 3/8"NPT male (Graders prior to #01625)
	70921402	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF male end (Includes washer, nut and O-RING)(Graders unit #01625 and up)
	70921349	1	O-RING, connector
14	70649622	1	HOSE, left cylinder to frame (lift)(See HOSE PARTS)
	70919206	1	ELBOW, flare type, 1/2" tube, 3/8"NPT male (Graders prior to #01625)
	70921402	1	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4"NF male end (Includes washer, nut and O-RING)(Graders unit #01625 and up)
	70921349	1	O-RING, connector
15	70621543	1	CLIP, hose supporting (multiple. For 3/4" diam. hose)
	70922300	1	CAPSCREW, 3/8"NC x 3/4"
	70910287	1	LOCKWASHER, 3/8"
	70911115	1	WASHER, plain, SAE std., 3/8"
16	70094467	4	CLIP, hose supporting (single, 3/4" diam.)
	70922300	2	CAPSCREW, 3/8"NC x 3/4"
	70910287	2	LOCKWASHER, 3/8"
	70911115	2	WASHER, plain, SAE std., 3/8"
17	70621542	2	GROMMET, lower hose (rubber)

(Revised July 1975)



* 10 ft. Standard equipment
 ** 12 ft. Optional equipment

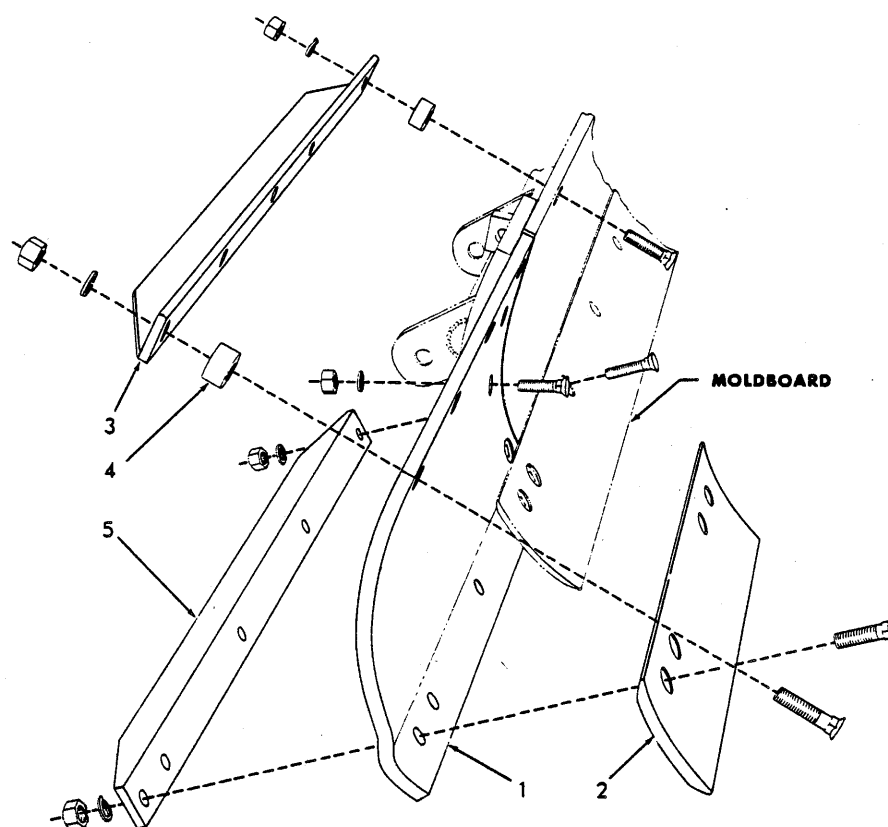
ITEM	PART NO.	QTY. * **	DESCRIPTION	
1	70673327	1 -	MOLDBOARD ASSY.	Each consists of items 2 thru 5
	70677308	- 1	MOLDBOARD ASSY.	
2	70673324	1 -	MOLDBOARD, only	Each includes item 3
	70677307	- 1	MOLDBOARD, only	
3	70082532	1 1	BALL, shifting (Requires welding to moldboard)	
	70914465	1 1	FITTING, lubricating, straight, 1/8"NPT	
4	70601530	1 -	EDGE, cutting, right hand (5 ft.)	
	70601531	1 -	EDGE, cutting, left hand (5 ft.)	
	70601532	- 1	EDGE, cutting, right hand (6 ft.)	
	70601533	- 1	EDGE, cutting, left hand (6 ft.)	
	70617125	14 16	BOLT, plow, 5/8"NC x 2"	
	70911029	14 16	NUT, 5/8"NC	

(Continued)

(Revised January 1979)

MOLDBOARD (Continued)

ITEM	PART NO.	QTY.		DESCRIPTION	
		*	**		
5	77109478	2	2	BIT, end	
	70911633	8	8	BOLT, plow, 5/8"NC x 2-1/4"	
	70912942	8	8	LOCKWASHER, 5/8"	
	70911029	8	8	NUT, 5/8"NC	
6	70922789	2	2	CAPSCREW, pitch bracket	
	70914726	2	2	LOCKWASHER, 3/4"	
	70910923	2	2	NUT, 3/4"NC	
7	70081170	2	2	GUIDE, moldboard slide	
8	70921411	4	4	CAPSCREW, 5/8"NC x 1-1/2"	
9	70082225	1	1	BRACKET, pitch, left side	
	70082226	1	1	BRACKET, pitch, right side	
	70912841	2	2	NUT, slotted, 1-1/4"NF	
	70901344	2	2	PIN, cotter, 1/4" x 2"	
10	70082604	4	4	WASHER, spacing, moldboard support (Use as required)	
11	70081175	2	2	BRACKET, moldboard slide	
	70915874	28	28	WASHER, spacing (Use as required)	
12	70927423	4	4	CAPSCREW, 3/4"NF x 5"	
13	70012767	4	4	NUT, high, 1"NF	
14	77109457	1	1	TUBE, shifting	} Not used on units equipped with Hydraulic Shift- able Moldboard
15	70602224	1	1	PIN, coupling, shifting linkage	
16	70617855	1	1	CLIP, retaining, linkage coupling pin	
17	70674935	1	1	LINK, shifting	
18	70053992	16	16	SHIM, shifting linkage cap (Use as required)	
19	70053986	2	2	CAP, shifting linkage	
20	70605665	2	2	U-BOLT	
	70911049	8	8	NUT, jam, 5/8"NF	



MOLDBOARD EXTENSIONS

T-5939

USAGE: Special equipment
ITEM PART NO. QTY.

DESCRIPTION

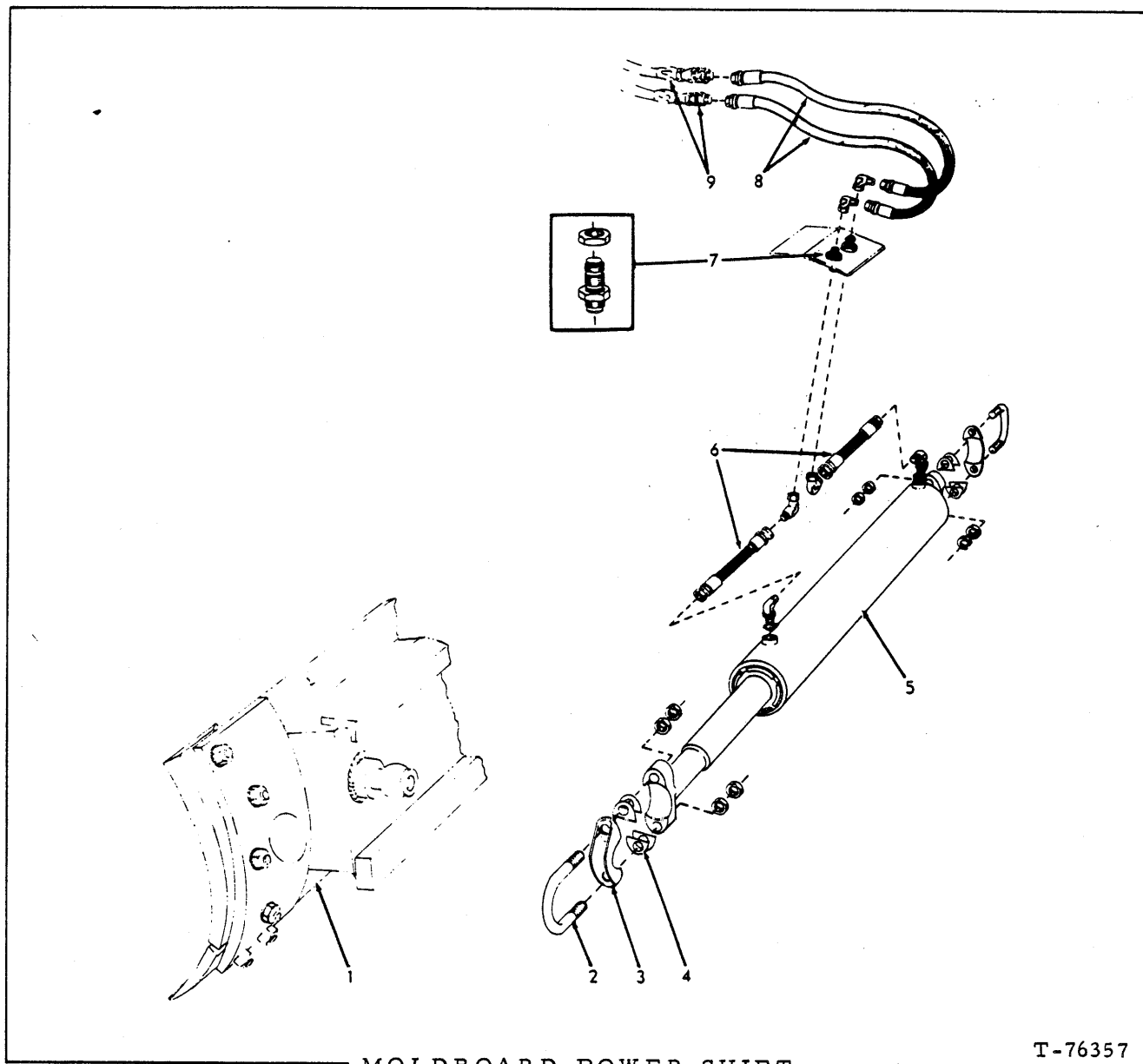
1	70677364	1	EXTENSION, moldboard, right hand
	70677363	1	EXTENSION, moldboard, left hand
	70911633	6	BOLT, plow, 5/8"NC x 2-1/4"
	70912942	6	LOCKWASHER, 5/8"
	70911029	6	NUT, 5/8"NC
2	70601603	2	EDGE, cutting
	70913648	6	BOLT, plow, 5/8"NC x 2-3/4"
	70912942	6	LOCKWASHER, 5/8"
	70911029	6	NUT, 5/8"NC
3	70079164	1	ANGLE, top reinforcing, right hand
	70079163	1	ANGLE, top reinforcing, left hand
	70913648	10	BOLT, plow, 5/8"NC x 2-3/4"
	70912942	10	LOCKWASHER, 5/8"
	70911029	10	NUT, 5/8"NC
4	70602449	8	SPACER, top reinforcing angle

(Continued)

MOLDBOARD EXTENSIONS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	70079166	1	ANGLE, bottom reinforcing, right hand
	70079165	1	ANGLE, bottom reinforcing, left hand
	70913648	4	BOLT, plow, 5/8"NC x 2-3/4"
	70912942	4	LOCKWASHER, 5/8"
	70911029	4	NUT, 5/8"NC

NOTE: See PAINTING AND MARKING for transfer



MOLDBOARD POWER SHIFT

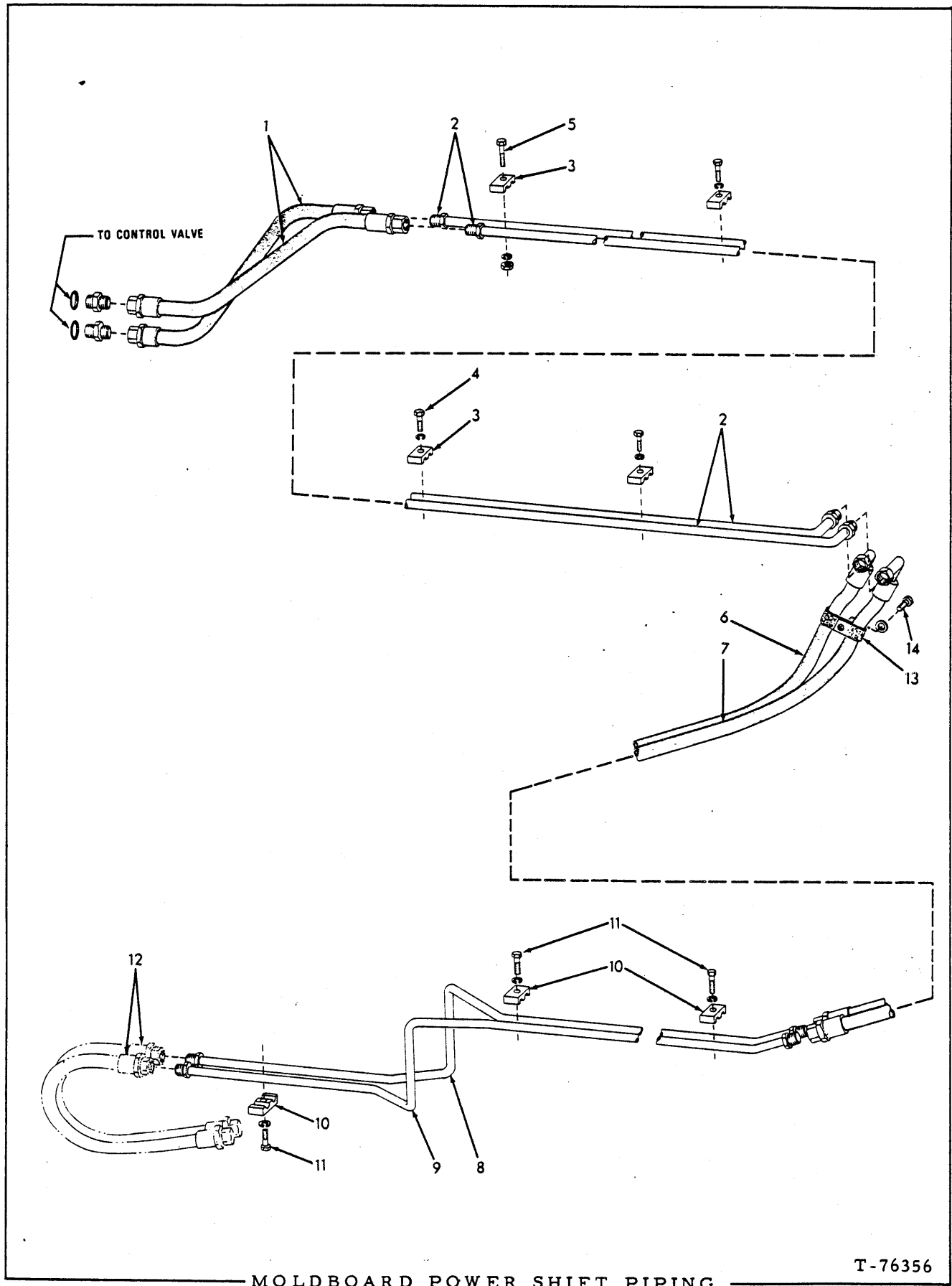
T-76357

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	MOLDBOARD (See MOLDBOARD)
2	70605665	2	U-BOLT, cylinder end cap
	70911049	8	NUT, jam, 5/8" NF
3	70053986	2	CAP, cylinder end
4	70053992	16	SHIM, cylinder end cap (Use as required)
5	-----	1	CYLINDER ASSY., moldboard (See pages 170 and 170A)
6	70649639	2	HOSE, lower (See HOSE PARTS)
	70919206	2	ELBOW, flare type, 1/2" tube, 3/8" NPT male (cylinder connection, First type)
	70921402	2	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" NF (Includes washer, nut and O-RING)(cylinder connection Second type)
	70921279	2	ELBOW, flare type, swivel nut, 1/2" tube
	70921349	2	O-RING, elbow

MOLDBOARD POWER SHIFT (Continued)

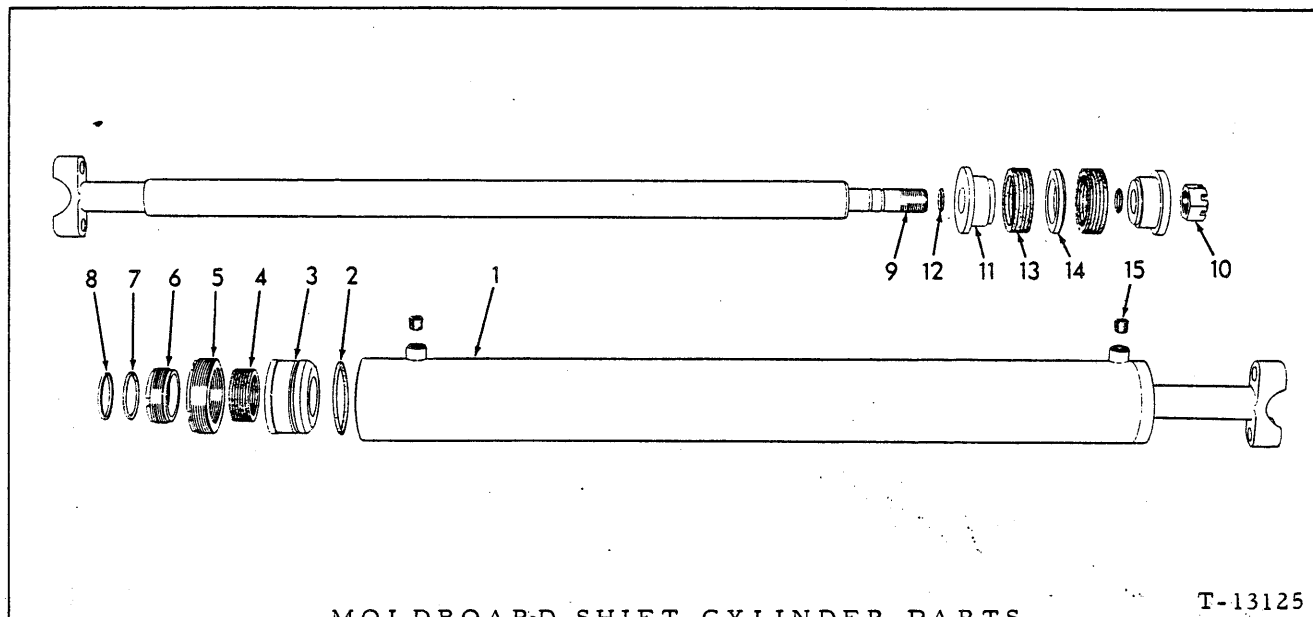
ITEM	PART NO.	QTY.	DESCRIPTION
7	70622836	2	ADAPTER, bulkhead (Includes nuts)
8	70649631	2	HOSE, connecting (See HOSE PARTS)
	70921279	2	ELBOW flare type, swivel nut, 1/2" tube
9	-----	2	TUBE (See MOLDBOARD POWER SHIFT PIPING)



MOLDBOARD POWER SHIFT PIPING

USAGE: Special equipment

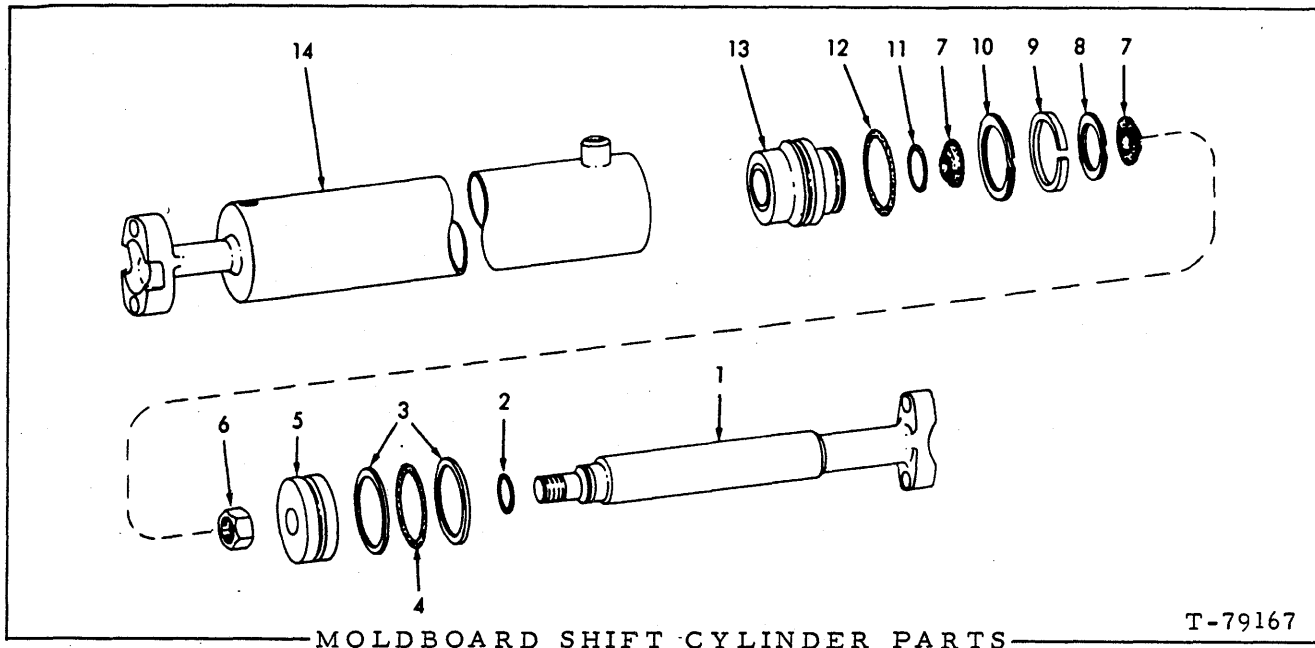
ITEM	PART NO.	QTY.	DESCRIPTION
1	70673120	2	HOSE, upper (See HOSE PARTS)
	70921409	2	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING)
	70921349	2	O-RING, connector
2	70673117	2	TUBE, upper
3	77109141	4	BLOCK, tube supporting
4	70923470	3	CAPSCREW, 3/8"NC x 1-1/2"
5	70921565	1	CAPSCREW, 3/8"NC x 1-1/2"
	70910287	4	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
6	70675541	1	HOSE, lower (left)(See HOSE PARTS)
7	70675542	1	HOSE, lower (right)(See HOSE PARTS)
8	70676180	1	TUBE, lower (left)
9	70676181	1	TUBE, lower (right)
10	70623355	3	BLOCK, tube supporting
11	70923470	3	CAPSCREW, 3/8"NC x 1-1/2"
	70910287	3	LOCKWASHER, 3/8"
12	-----	2	HOSE (See MOLDBOARD POWER SHIFT)
13	70094467	2	CLIP, hose supporting
14	70922300	1	CAPSCREW, 3/8"NC x 3/4"
	70911115	1	WASHER, plain, SAE std., 3/8"



USAGE: See page 166. First type

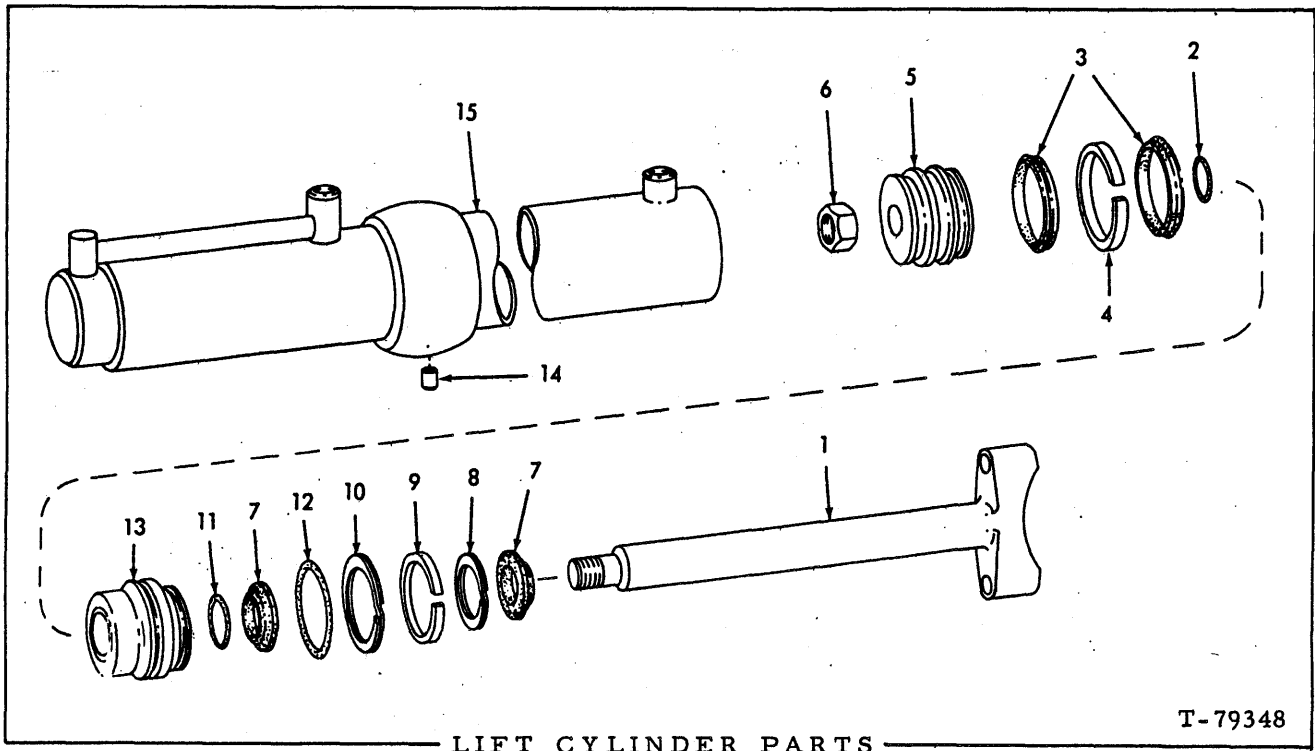
ITEM	PART NO.	QTY.	DESCRIPTION
-	70096096	1	CYLINDER ASSY., moldboard shift (Includes items 1 thru 15)
1	70083641	1	TUBE, cylinder
2	70923830	1	□ O-RING, stuffing box
3	70083551	1	BOX, stuffing
4	70083552	1	□ PACKING ASSEMBLY, stuffing box (7 rings)
5	70083554	1	NUT, stuffing box retaining
6	70083637	1	NUT, packing adjustment
7	70923579	1	□ O-RING, piston rod
8	70080283	1	□ RING, piston rod wiping
9	70096097	1	ROD, piston
10	70912841	1	NUT, slotted, 1-1/4"NF
11	70083548	2	PISTON
12	70923575	2	□ O-RING, piston
13	70083547	2	□ PACKING ASSEMBLY, piston (5 rings)
14	70083558	1	WASHER, piston
15	-----	2	PLUG, shipping
16	73112077	1	REPAIR KIT, cylinder (Includes items 2, 4, 7, 8, 12 and 13)

□ Components of item 16



USAGE: See page 166. Second type

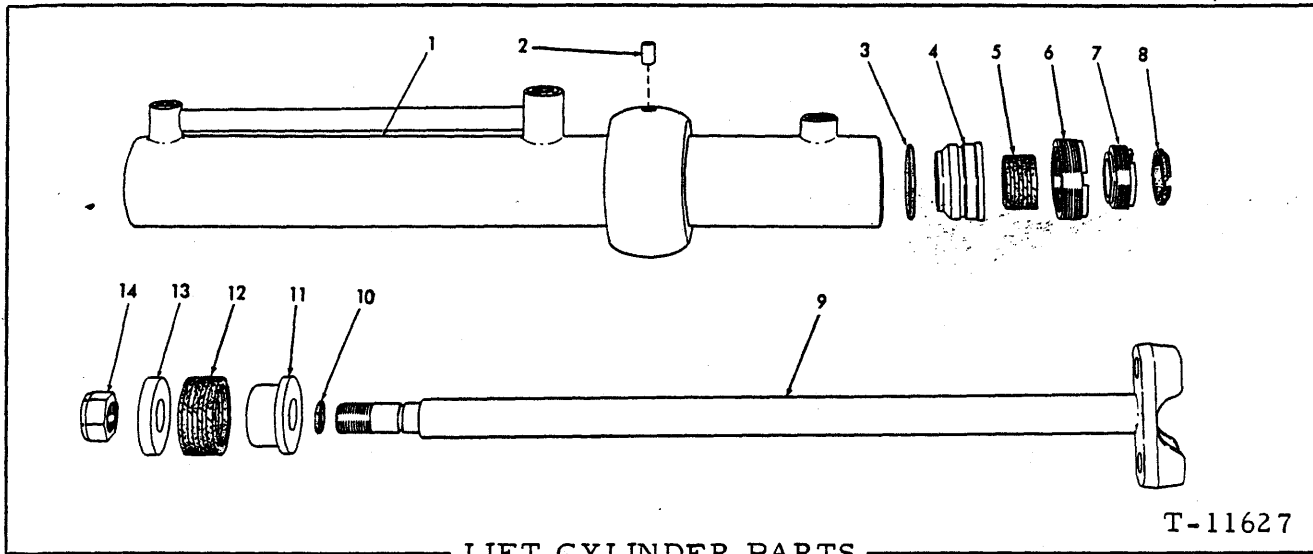
ITEM	PART NO.	QTY.	DESCRIPTION
-	70692963	1	CYLINDER ASSY., moldboard shift (Includes items 1 thru 14)
1	70695511	1	ROD, piston
2	70923649	1	□O-RING, piston rod
3	70695445	2	□WASHER
4	70923830	1	□O-RING, piston
5	70695514	1	PISTON
6	70695513	1	NUT
7	70695446	2	□WASHER
8	70930930	1	RING, snap
9	70695444	1	SPACER
10	70930929	1	RING, snap
11	70923579	1	□O-RING
12	70924840	1	□O-RING
13	70695443	1	HEAD ASSY. (Includes bushing which is not serviced separately)
14	70695512	1	TUBE, cylinder
15	73112075	1	REPAIR KIT, cylinder (Includes items 2 thru 4, 7, 11 and 12)
			□Components of item 15



USAGE: Second type.

*Moldboard Lift Cylinder (See page 161)
 **Scarifier Lift Cylinder (See page 199)

ITEM	PART NO.	QTY. * **	DESCRIPTION
-	{ 70692960	1 -	CYLINDER ASSY. (Includes items 1 thru 15)
	70692961	- 1	CYLINDER ASSY. (Includes items 1 thru 15)
1	70695425	1 1	ROD, piston
2	70923649	1 1	□ O-RING, piston rod
3	70695423	2 2	□ SEAL, piston
4	70695424	1 1	□ RING, wear
5	70695422	1 1	PISTON
6	70695545	1 1	NUT
7	70695427	2 2	□ WIPER, rod
8	70930922	1 1	RING, snap
9	70695428	1 1	SPACER
10	70927819	1 1	RING, snap
11	70923664	1 1	□ O-RING
12	70924158	1 1	□ O-RING
13	70695426	1 1	HEAD ASSY. (Includes bushing which is not serviced separately)
14	70065823	1 1	PIN, cylinder guide
15	{ 70693691	1 -	TUBE, cylinder
	70695421	- 1	TUBE, cylinder
16	73112076	1 1	REPAIR KIT, cylinder (Includes items 2 thru 4, 7, 11 and 12)
			□ Components of item 16



USAGE: First type

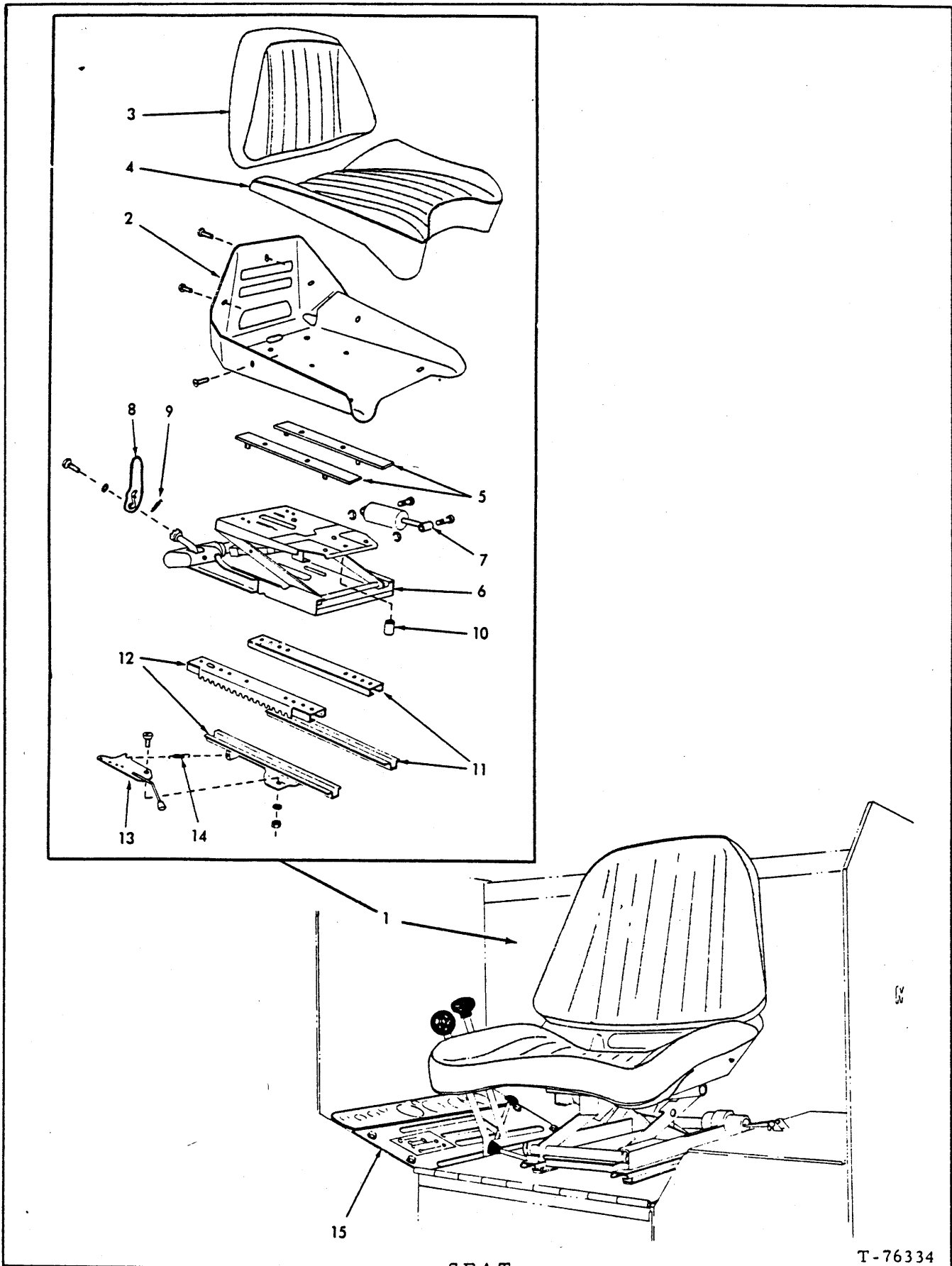
*Moldboard Lift Cylinder. (See page 161)

**Scarifier Lift Cylinder. (See page 199)

ITEM	PART NO.	QTY.	DESCRIPTION	
		* **		
-	70629729	1	CYLINDER ASSY., moldboard lift (Order Cylinder Assy. 70692960 and 2 Elbows 70921402)	Each includes items 1 thru 14
-	70073842	- 1	CYLINDER ASSY., moldboard lift (Order Cylinder Assy. 70692691, 1 Elbow 70921402 and 1 Elbow 70922507)	
1	70629727	1	TUBE ASSY., cylinder (Includes item 2)(Order Cylinder Assy. 70692960 and 2 Elbow 70921402)	
	70080102	- 1	TUBE ASSY., cylinder (Includes item 2)(Order Cylinder Assy. 70692691, 1 Elbow 70921402 and 1 Elbow 70922507)	
2	70065823	1	PIN, cylinder guide	
3	70923814	1	☐ O-RING, stuffing box	
4	70079810	1	BOX, stuffing	
5	70080005	1	☐ PACKING ASSY., stuffing box (7 rings)	
6	70079812	1	NUT, stuffing box retaining	
7	70079811	1	NUT, packing adjustment	
8	70080006	1	☐ STRIP, piston rod wiping	
9	70079814	1	ROD, piston	
10	70923574	1	☐ O-RING, piston	
11	70079808	1	PISTON	
12	70080004	1	☐ PACKING ASSY., piston (7 rings)	
13	70079809	1	WASHER, piston	
14	70917777	1	NUT, self-locking, 1"NF	
15	73112071	1	REPAIR KIT, cylinder (Includes items 3, 5, 8, 10 and 12)	

NOTE: Quantities indicated above are for one (1)
cylinder only.

☐ Components of item 15



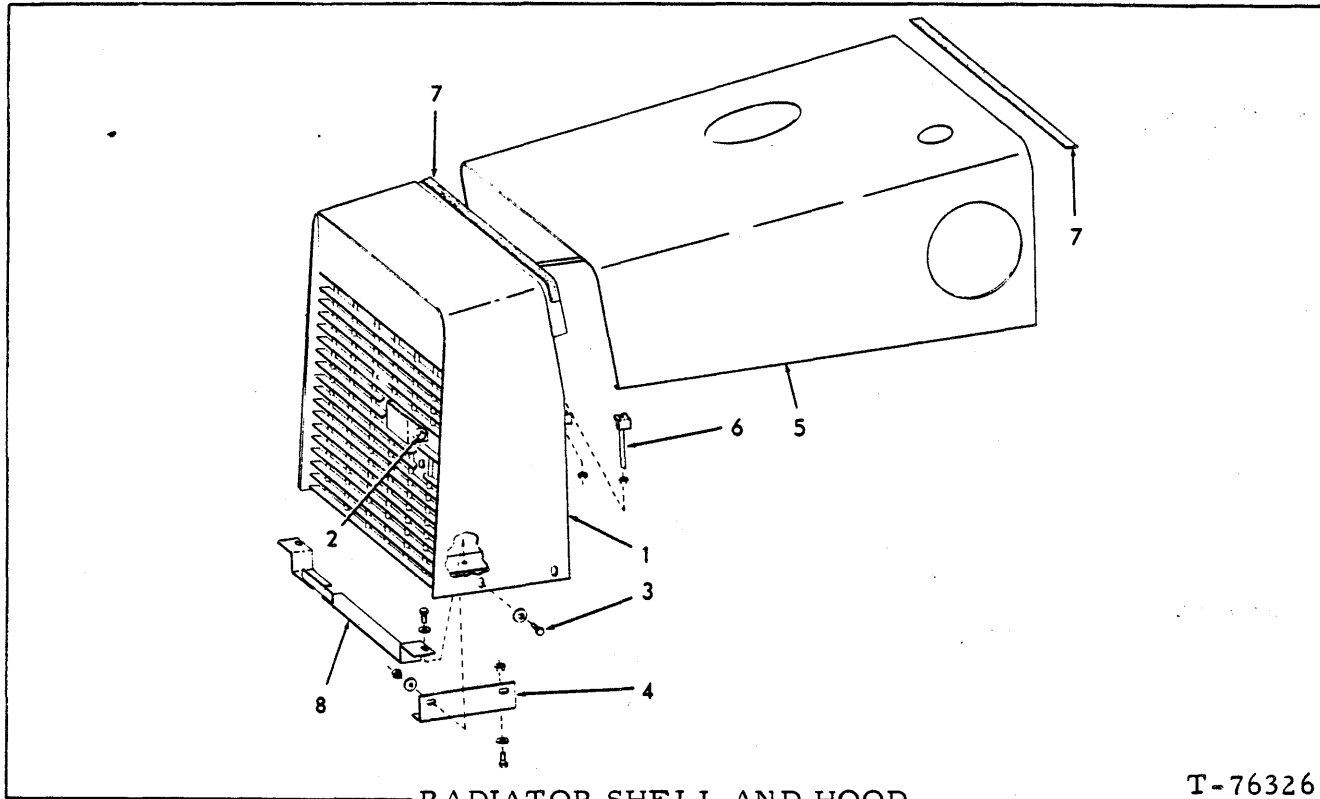
SEAT

T-76334

SEAT

ITEM	PART NO.	QTY.	DESCRIPTION	
1	77108686	1	SEAT ASSY. (Includes items 2 thru 14)	
	70922925	4	CAPSCREW, 5/16"NC x 3/4"	
	70910286	4	LOCKWASHER, 5/16"	
	70911025	4	NUT, 5/16"NC	
2	77110371	1	BUCKET-SEAT	
3	77110372	1	CUSHION, backrest	
	70916081	3	SCREW, 1/4"NC x 1/2"	
4	77110373	1	CUSHION, seat	
	70916081	4	SCREW, 1/4"NC x 1/2"	
5	-----	2	SUPPORT, bucket-seat (Order item 17)	
	77110369	4	SCREW	
	70917356	4	LOCKWASHER, 5/16"	
	77106256	4	NUT	
6	77110375	1	SUSPENSION ASSY. (Includes items 7 thru 10)	
7	77110376	1	SHOCK-ABSORBER	
	-----	2	PIN	} Not serviced. Order item 6
	-----	2	RING, retaining pin	
8	77110379	1	LEVER, adjusting suspension	
	70918228	1	SCREW, 3/8"NC x 5/8"	
	70926189	1	WASHER, plain	
9	77110380	1	SPRING	
10	77110381	1	BLOCK, stop	
11	-----	1	SLIDE, adjusting L. H.	} Not serviced separately. Order item 17.
	-----	2	SCREW	
	-----	2	LOCKWASHER, 1/4"	
12	-----	1	SLIDE, adjusting R. H.	
	-----	2	SCREW	
	-----	2	LOCKWASHER, 1/4"	
13	-----	1	LATCH	
	-----	1	SCREW, special	
	-----	1	LOCKWASHER, 1/4"	
	-----	1	NUT	
14	-----	1	SPRING, latch	
15	70674542	1	GUIDE, gear shift lever	
	70922925	4	CAPSCREW, 5/16"NC x 3/4"	
	70910335	4	WASHER, plain, SAE std., 5/16"	
16	70680080	1	BELT, safety (Not illustrated)	
17	70689008	1	RAIL ASSY., adjusting slide (Includes items 5, 11 thru 14) (Serviced only as a unit)	

(Revised April 1973)



RADIATOR SHELL AND HOOD

T-76326

ITEM	PART NO.	QTY.	DESCRIPTION
1	70674424	1	SHELL, radiator (Graders prior to unit #02171)
	73108007	1	SHELL, radiator (Grader unit #02171 and up)
2	70927612	6	CAPSCREW, 5/16"NC x 5/8"
3	70922763	4	CAPSCREW, 3/8"NC x 1"
	70677005	6	WASHER
	70677006	8	WASHER
	70910286	6	LOCKWASHER, 5/16"
	70906652	6	NUT, jam, 5/16"NC
	70911026	4	NUT, 3/8"NC
4	77109094	1	ANGLE, shell supporting (right)
	77109084	1	ANGLE, shell supporting (left)
	70927173	4	CAPSCREW, 3/8"NC x 1-1/8"
	70677006	4	WASHER
	70911026	4	NUT, 3/8"NC
5	70674425	1	HOOD, engine (Standard)
	70677587	1	HOOD, engine (Optional. Units with oil-bath air cleaner)
	70677310	1	HOOD, engine (Standard)
	70677586	1	HOOD, engine (Optional. Units with oil-bath air cleaner)
6	70605956	4	BOLT, hood latching
	70911026	6	NUT, 3/8"NC
	70910287	2	LOCKWASHER, 3/8" (left side only)
7	77109639	2	CUSHION, hood
8	73107996	1	PLATE
	70922763	2	CAPSCREW, 3/8"NC x 1"
	70677006	2	WASHER

Effective on S/N
24A00201, 56Y02201

Effective on S/N
75Y00201

Grader unit
#02171 and up

PAINTING AND MARKING

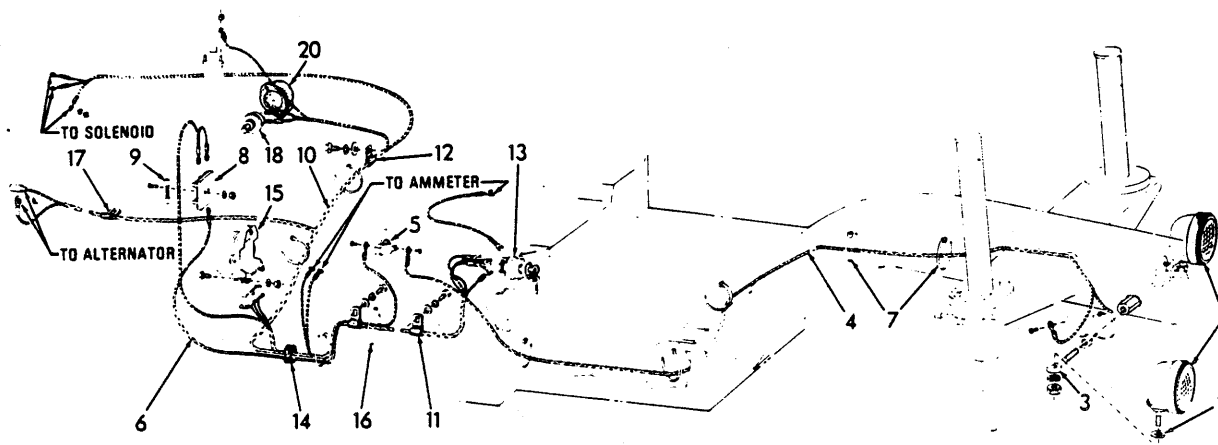
ITEM	PART NO.	QTY.	DESCRIPTION
NOTE: Approximately 5 gallons required for spraying			
1	70925108	-	ENAMEL, yellow, 12 oz. aerosol spray can
	70698037	-	ENAMEL, yellow orange, 12 oz. aerosol spray can
2	70925109	-	ENAMEL, yellow, quart can
3	70925110	-	ENAMEL, yellow, gallon can
	70698038	-	ENAMEL, yellow orange, gallon can
NOTE: All plates and decals listed below are English language unless otherwise indicated.			
4	70677558	1	DECAL, lube and service guide (Gas powered units)
	70668272	1	DECAL, lube and service guide (Diesel powered units) (Used prior to approximately September 1975)
	70697896	1	□DECAL, lube and service guide (Diesel powered units)(Effective approximately September 1975)
	70698755	1	DECAL, lube and service guide (Spanish)
	70698756	1	DECAL, lube and service guide (Portuguese)
	70698757	1	DECAL, lube and service guide (French)
	70698943	1	DECAL, lube and service guide (Italian)
	70699005	1	DECAL, lube and service guide (German)(See NOTE below regarding all of item 4)
NOTE: Left or right side of seat.			
5	73109131	1	□DECAL, "INSTRUCTION MANUAL" (Top of fuel and hydraulic tank behind seat)
6	73107882	1	□DECAL, danger, "FLAMMABLE VAPORS" (Left side of seat)
7	73107884	1	□DECAL, danger "FLUID PRESSURE" (Top of radiator shell)
8	73107881	2	□DECAL, warning "BLADES AND BELTS" (Sides of radiator shell)
9	73107897	1	□DECAL, warning, "BRAKES" (Control valve mounting plate)
10	73109134	1	□DECAL, warning "DISCONNECT BATTERY CABLES" (Left side of seat)
11	73107895	1	□DECAL, warning "DO NOT START"
	73109135	1	DECAL, warning "DO NOT START" (Italian)
	73109136	1	DECAL, warning "DO NOT START" (Spanish)
	73109137	1	DECAL, warning (DO NOT START" (German)
	73109138	1	DECAL, warning "DO NOT START" (French)
	73109139	1	DECAL, warning "DO NOT START" (Portuguese)
12	73107894	1	□DECAL, warning "ELEMENT CLEANING" (Top of air cleaner)
13	73108820	1	□DECAL, warning "MASTER CYLINDERS" (Left side of seat)
14	73108720	1	□DECAL, warning "OPERATIONS" (Left side of seat)
15	73107889	1	□DECAL, warning "PRESSURE LEAKS" (Right side of seat)

Left
side
of
seat

(Continued)

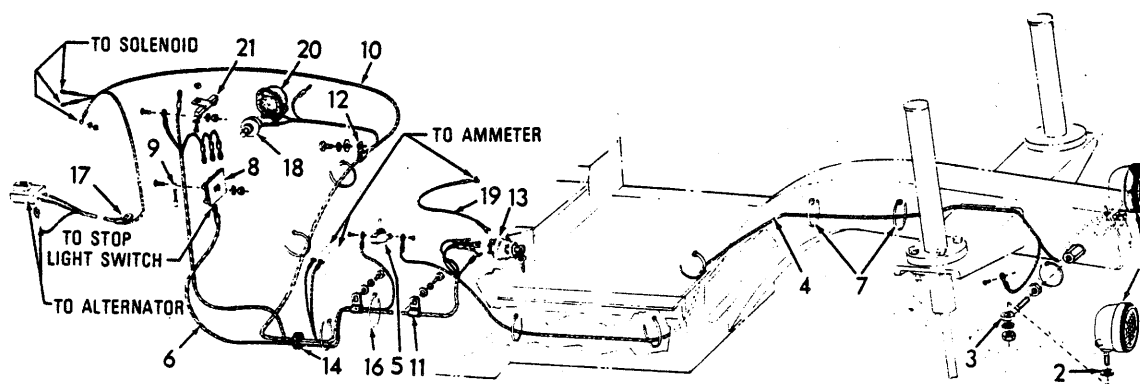
PAINTING AND MARKING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
16	73107890	4	☐ DECAL, warning "SCISSORS POINT" (Top of drawbar, scarifier and front axle)
17	73108722	1	☐ DECAL, warning "STARTING FLUID" (Side of air intake pipe)
18	70698968	1	☐ DECAL, warning "SHIFT" (Top of shift tower)
19	73108716	1	☐ DECAL, warning "START-UP, SHUT DOWN" (Left side of seat)
20	70621393	1	☐ DECAL "CIRCLE TURN" }
21	70621394	1	☐ DECAL, "WHEEL LEAN" }
22	70621395	2	☐ DECAL, "CIRCLE LIFT" }
23	70621396	1	☐ DECAL, "SIDE SHIFT" }
24	70621397	1	☐ DECAL, "SCARIFIER" }
25	77109648	1	☐ DECAL, "SHIFT DIAGRAM" (Top of shift tower)
26	70658690	1	DECAL, "AIR CLEANER" (Side of Oil Bath Air Cleaner)
	70661524	1	☐ DECAL, "AIR CLEANER" (Side of Dry Type Air Cleaner)
27	70621342	1	DECAL, "ENGINE PRIMER" (Right side of seat)
28	70697909	1	☐ DECAL, "OIL FILTER" (Hydraulic tank oil filter)
29	73113253	1	☐ DECAL, "AIR HEATER DANGER" (Right side of seat)
30	-----	1	DECAL, "ROPS" (Upper right hand front corner of frame or cab)(Order from local Fiat-Allis dealer)
31	70678589	2	DECAL, "M65" (Early units) }
	70697290	2	☐ DECAL, "65" (Late units) }
32	70694440	1	☐ DECAL "F-A" (Center of steering wheel cap)
33	70694421	2	☐ DECAL, "F-A" (Sides of radiator shell)
34	70694424	1	☐ DECAL, "F-A" (Front of frame)
35	70694435	1	☐ DECAL, "FIAT-ALLIS" (Rear of frame)
36	70694437	2	☐ DECAL, "FIAT-ALLIS" (Sides of frame)
37	73062870	-	☐ DECAL, multiple strip (25 ft. roll)(Use as required)
38	73109372	1	DECAL KIT (Includes items 4 thru 26, 28, 29 and 31 thru 37)
			☐ Components of item 38



Graders Prior To Serial No. 24A01528 and 75Y01528

T-76339



Graders Serial No. 24A01528 , 56Y02201 and up

T-79329

LIGHTS AND WIRING

*Graders prior to serial No. 24A01528 and 75Y01528
 **Graders serial No. 24A01528, 56Y02201 and up

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	----- 70912441 70911043	2 2 2 2 2 2	△LIGHT ASSY., head (See page 178) LOCKWASHER, 1/2" NUT, 1/2"NF
2	70677008	2 2	△WASHER, plain
3	70065935 70911035 70646661	2 2 2 2 2 2	△BOLT, eye, light mounting NUT, jam, 1/2"NC NUT (Requires welding to install)
4	70675304	1 1	△CABLE, head light to switch
5	70639726 70922667	1 1 1 1	△SWITCH, light SCREW, machine, rd-hd., #5-40NC x 1/4"
6	{ 70675235 70693458	1 - - 1	△CABLE, switch to fuse block △CABLE, switch to fuse block
7	73044015	8 -	△CLIP, tie supporting
8	70066487 70900496 70910243 70901309	1 1 2 1 2 1 2 1	BLOCK, fuse SCREW, machine, flt-hd., #6-32NC x 3/4" WASHER, plain NUT, #6-32NC
9	70208960	3 3	FUSE, 20 amp. (1/4" x 1-1/4")
10	{ 70691715 70691716 70693461	1 - 1 - - 1	HARNESS, wiring (Eff. on S/N24A00201) HARNESS, wiring (Eff. on S/N75Y00201) HARNESS, wiring
	70922097 70917385	1 - 1 -	LOCKWASHER, #8 NUT, #8-32NC
	70915365 70917376	1 - 1 -	LOCKWASHER, #12 NUT, #12-24NC
			} Connects harness to Starter Effective on S/N 75Y00201
			} Connects harness to Alternator
11	70094422 70927400 70910287 70911115 70630753	2 2 2 2 2 - 2 - - 2	CLIP, harness supporting CAPSCREW, 3/8"NC x 5/8" LOCKWASHER, 3/8" WASHER, plain WASHER, plain
12	70094527 70927400 70910287 70911115 70630753	1 1 1 1 1 - - 1 - 1	CLIP, harness supporting CAPSCREW, 3/8"NC x 5/8" LOCKWASHER, 3/8" WASHER, plain WASHER, plain
13	70641683 70693857	1 1 1 1	SWITCH ASSY., starting switch (Includes key) KEY, starting switch

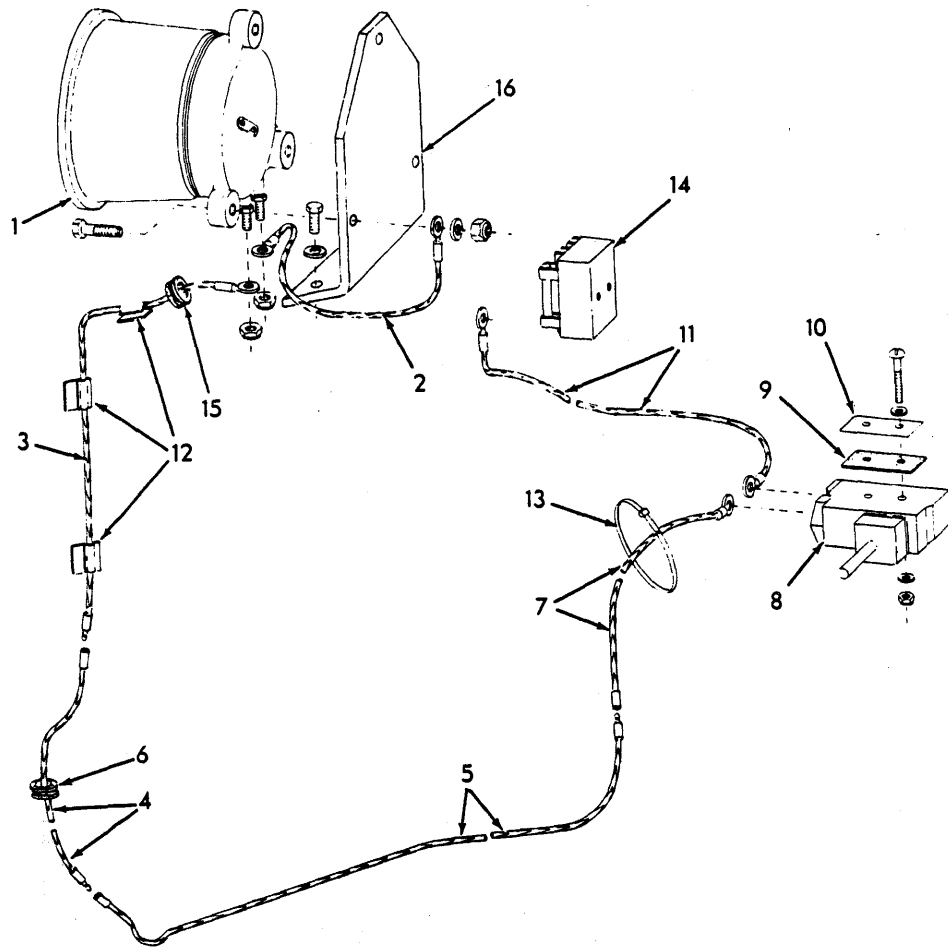
△Special Equipment

(Continued)

(Revised May 1978)

LIGHTS AND WIRING (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
14	70180554	1 1	GROMMET, harness protecting
15	74789143	1 -	REGULATOR, voltage and current (Delco-Remy #1119507. Order parts from local Agency)
	70927541	3 -	CAPSCREW, 1/4"NC x 3/4"
	70910285	3 -	LOCKWASHER, 1/4"
	70911024	3 -	NUT, 1/4"NC
	73057441	- 1	RESISTOR
	70928182	- 1	CAPSCREW, 1/4"NC x 1/2"
	70677004	- 1	WASHER, plain
16	70196765	2 7	STRAP, harness supporting (1 less used on Diesel powered units)
17	70041262	1 1	CLIP, harness supporting (Eff. on S/N 24A00201 also 56Y02201)
	70639314	1 1	CLIP, harness supporting (Effective on S/N 75Y00201)
18	70660694	1 1	SWITCH, pressure
19	70674954	1 1	CABLE, ammeter to starting switch
20	70632706	1 1	BOOT, switch protecting
21	73057441	- 1	RESISTOR
	70913532	- 2	SCREW, #7 x 1/2" rd-hd., self tapping
	70917459	- 2	LOCKWASHER, #6
	70924606	- 2	NUT, #6 (speed-nut)
	70928182	- 1	CAPSCREW, 1/4"NC x 1/2"
	70677004	- 1	WASHER, plain



T-79817

REVERSE ALARM

USAGE: Special equipment prior to March 1977; standard thereafter.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70699053	1	HORN (Includes washers and nuts)
	70921382	3	CAPSCREW, 1/4"NC x 1-1/4"
	70911114	1	WASHER
	70917730	3	NUT, 1/4"NC
2	70671763	1	CABLE, ground
3	73109776	1	CABLE
4	70699372	1	CABLE
5	70699371	1	CABLE
6	70023176	1	GROMMET
7	70699370	1	CABLE
8	73104543	1	SWITCH ASSY. (Includes hardware indented below)
	70925654	2	SCREW, rd-hd., #6-32 x 1-1/2"
	70188136	4	WASHER
	70926284	2	NUT, #6-32
9	70699367	1	GASKET
10	70699292	1	PLATE
11	70699369	1	CABLE (Switch to fuse block)
12	73059884	3	CLIP (Adhesive backing)(Early units)
13	70196765	14	STRAP, tee

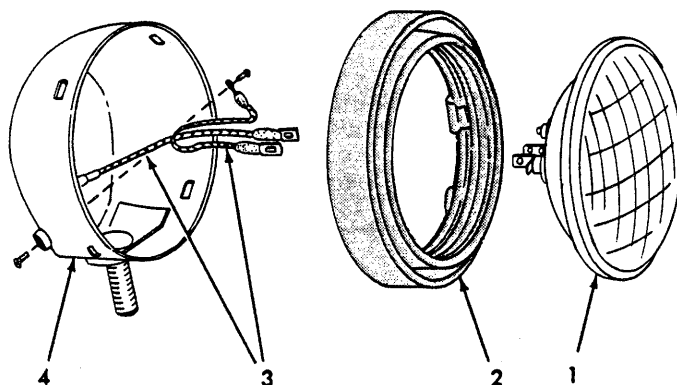
(Continued)

REVERSE ALARM (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
14	-----	1	BLOCK, fuse (See page 177)
15	70083987	2	GROMMET (Late units)
16	70699374	1	PLATE
	70927541	2	CAPSCREW, 1/4"NC x 3/4"
	70928190	2	WASHER

TURN SIGNAL WIRING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70639314	1	CLIP
	70927484	1	CAPSCREW, 3/8"NC x 1/2"
	70929156	1	WASHER
9	70699387	1	ANGLE
	70920995	2	CAPSCREW, 3/8"NC x 2"
	70910287	2	LOCKWASHER, 3/8"
10	70695361	1	TUBE
	70922510	1	CAPSCREW, 1/2"NC x 2-3/4"
	70928188	1	WASHER
	70911028	1	NUT, 1/2"NC
11	70699378	1	CABLE
12	70699379	1	CABLE
13	70699373	1	HARNESS
14	70640677	1	CLIP
	70922763	1	CAPSCREW, 3/8"NC x 1"
	70929156	2	WASHER
	70911026	1	NUT, 3/8"NC
15	70023176	2	GROMMET
16	70639388	1	CLIP
	70922763	1	CAPSCREW, 3/8"NC x 1"
	70929156	2	WASHER
	70911026	1	NUT, 3/8"NC
17	70699391	1	SUPPORT
	70920582	2	CAPSCREW, 1/2"NC x 1-1/4"
	70677008	2	WASHER
18	70083683	1	GROMMET
19	70196765	32	STRAP, tie
20	-----	-	HARNESS, main wiring

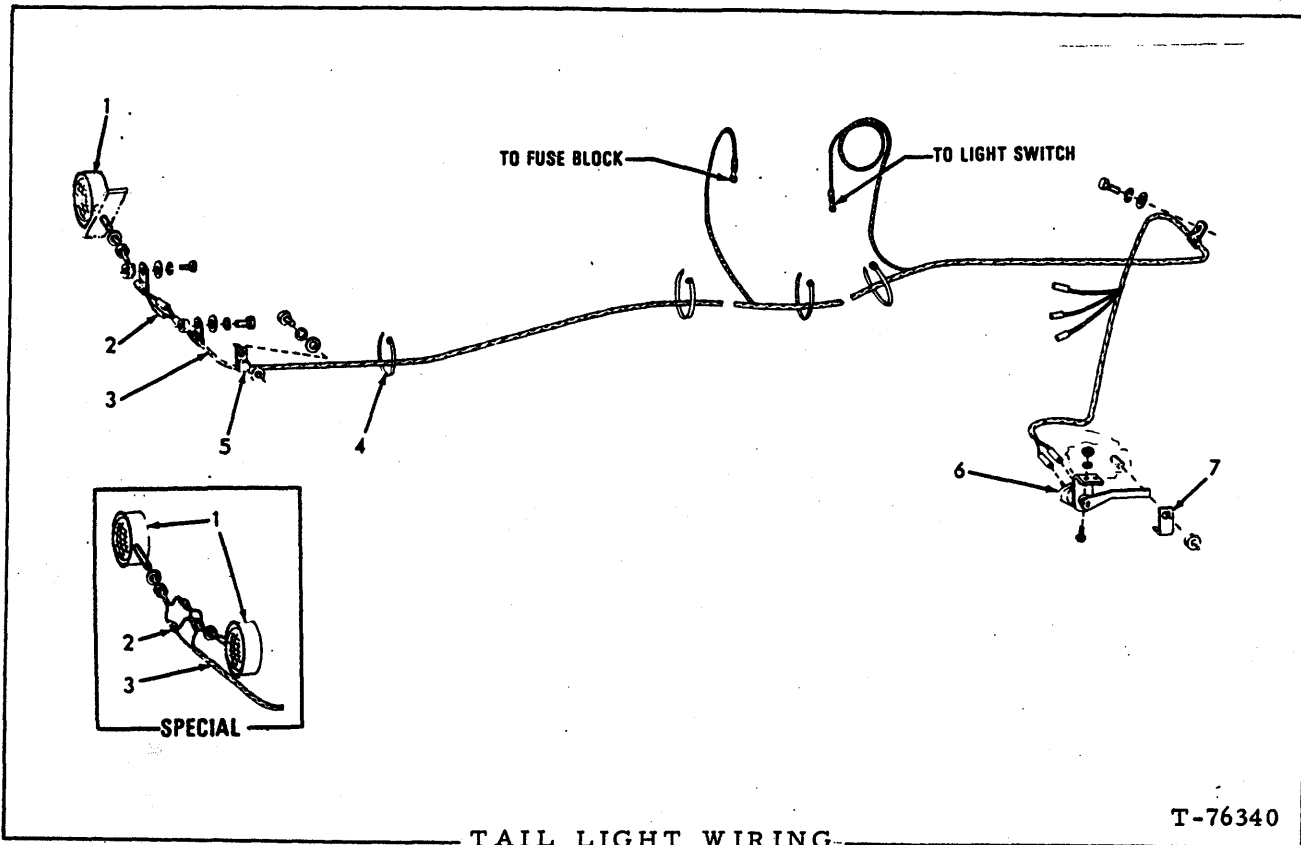


LIGHT ASSEMBLY

T-76341

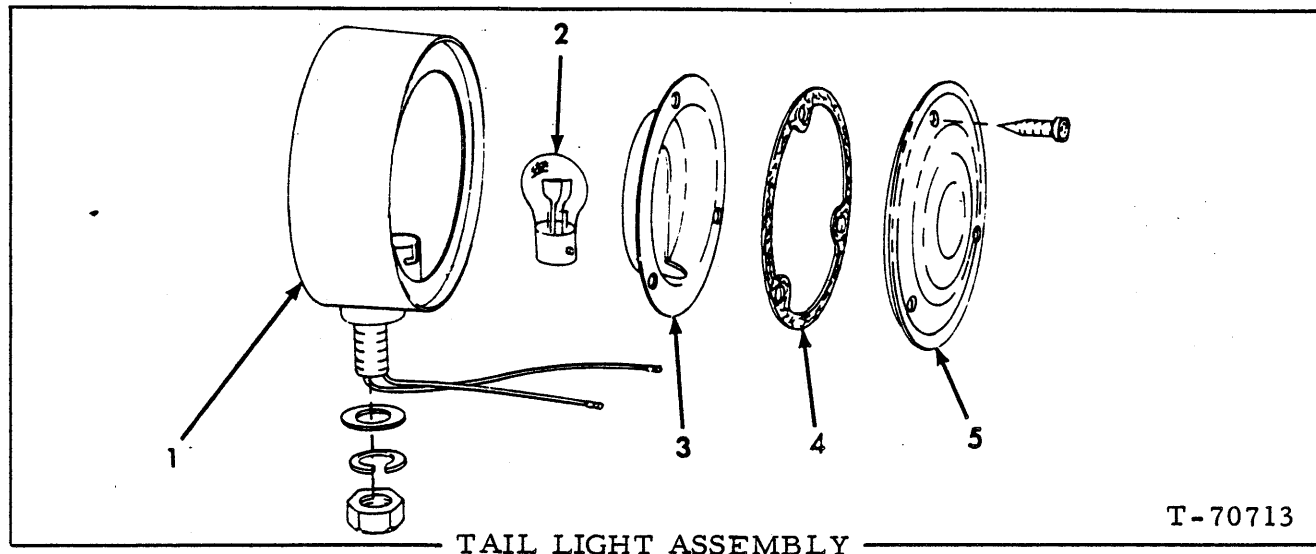
USAGE: See page 177

ITEM	PART NO.	QTY.	DESCRIPTION
-	70621854	2	LIGHT ASSY., head (Includes items 1 thru 4)
1	70621853	2	SEALED BEAM
2	70621428	2	RETAINER, sealed beam (rubber)
3	70621724	4	CABLE, head light
	70912731	2	SCREW, terminal, #8-32NC x 5/16"
4	-----	2	SHELL, head light cable(Not serviced seperately)
	70912731	2	SCREW, terminal, #8-32NC x 5/16"



ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	LIGHT ASSY., tail (See pages 180, 180A)(One additional used on units equipped with special Head Lights)
2	70048142	2	CONNECTOR, wiring harness (two-line)(Standard. Units not equipped with head lights)
	70048137	2	CONNECTOR, wiring harness (three line)(Special. Units equipped with headlights)
3	70674955	1	HARNESS, wiring (Graders prior to unit #01528)
	70693460	1	HARNESS, wiring (Grader unit #01528 and up)
4	70196765	5	STRAP, harness supporting (2 less used on Diesel powered unit)
5	70640677	6	CLIP, harness supporting
	70927400	6	CAPSCREW, 3/8" NC x 5/8"
	70630753	6	WASHER
6	70648427	1	SWITCH, stop light
	70900558	2	SCREW, machine, #10-32NF x 1/2"
	70910284	2	LOCKWASHER, #10
	70910251	2	NUT, #10-32NF
7	70068372	1	ANGLE, switch supporting

(Revised January 1979)

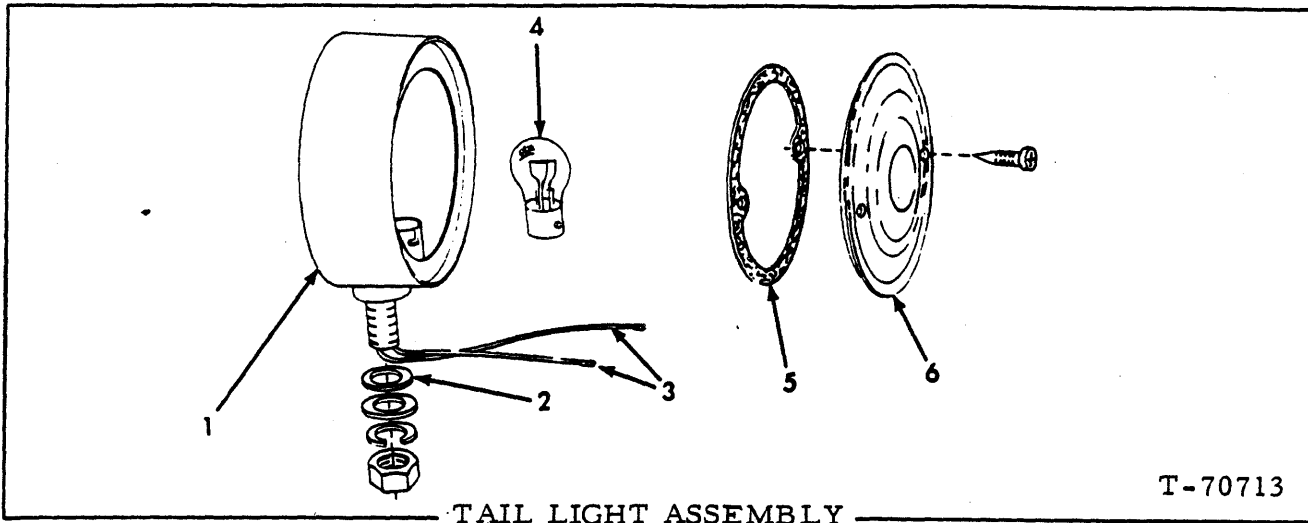


TAIL LIGHT ASSEMBLY

T-70713

USAGE: First type. Use 3 Mounting Screws. See page 179.

ITEM	PART NO.	QTY.	DESCRIPTION
-	73044502	1	LIGHT ASSY. (Includes items 1 thru 5)
1	-----	1	BODY ASSY., tail light (Not serviced separately)
2	73038887	1	BULB, 12 volt
3	73036242	1	REFLECTOR, tail light
4	73036241	1	GASKET, lens
5	73036240	1	LENS, tail light (red glass)

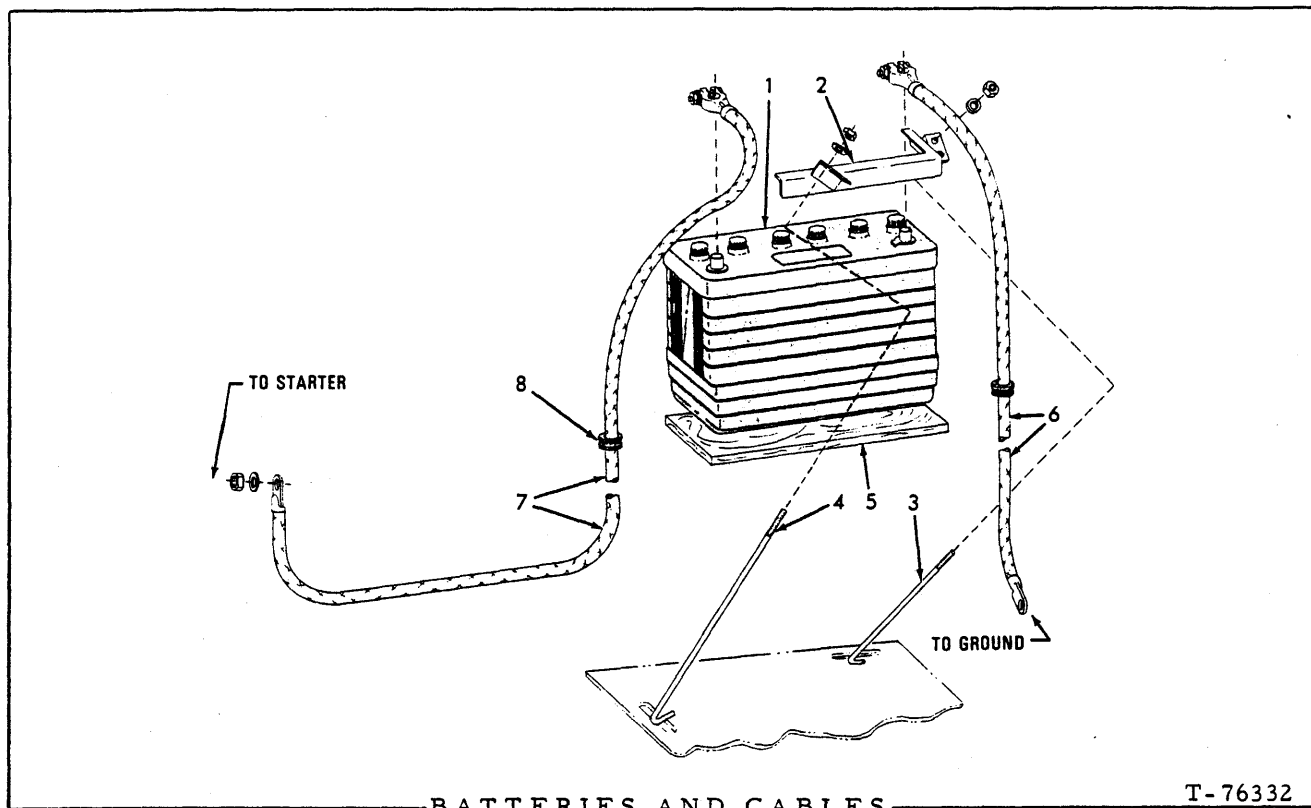


TAIL LIGHT ASSEMBLY

T-70713

USAGE: Second type. Use 2 Lens Mounting Screws. See page 179.

ITEM	PART NO.	QTY.	DESCRIPTION
-	73069237	1	LIGHT ASSY. (Includes items 1 thru 6)
	70906985	1	WASHER, 7/16"
	70914678	1	LOCKWASHER, 7/16"
	70912201	1	NUT, 7/16"NC
1	-----	1	BODY (Order LIGHT ASSY.)
2	73069241	1	PAD
3	73069240	1	WIRE ASSY. (Includes teminals)
4	70928348	1	BULB, 12 volt
5	73069196	1	GASKET
6	73069239	1	LENS

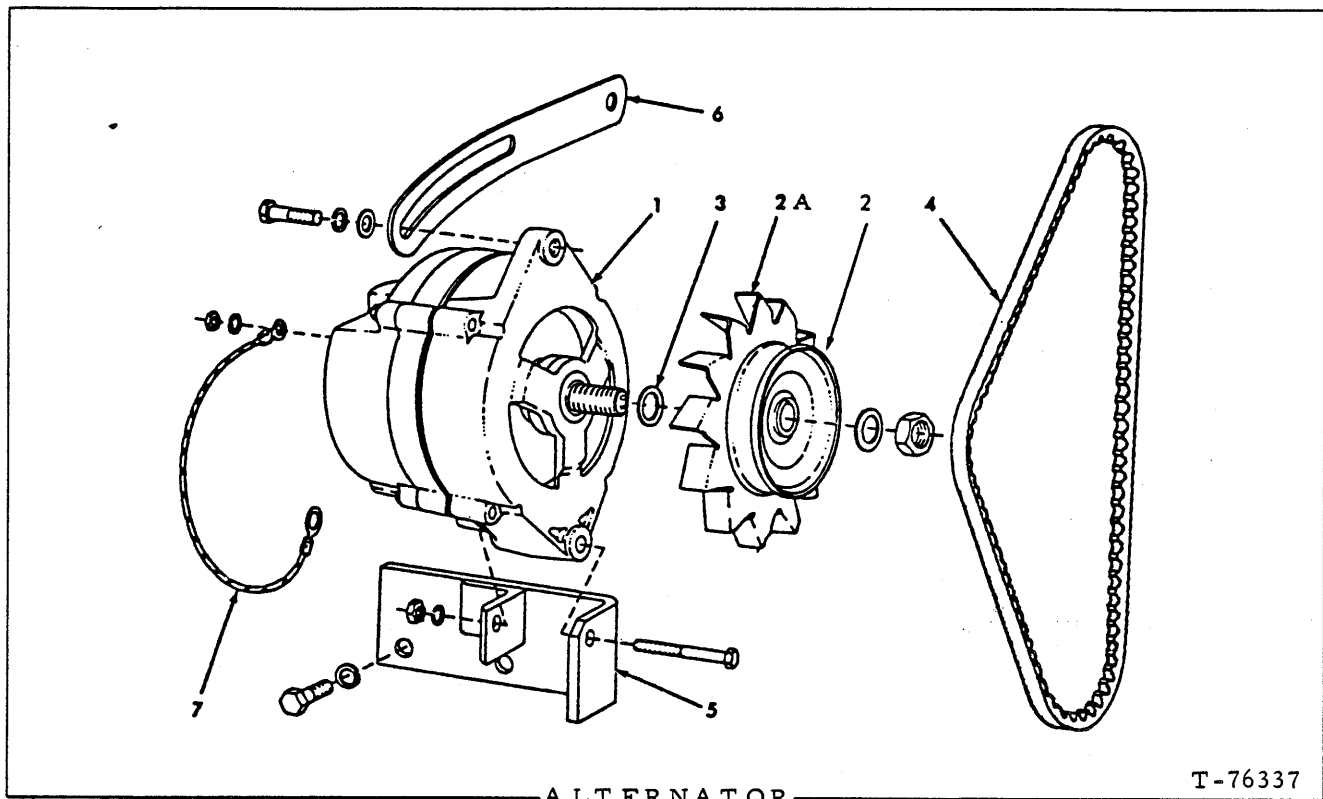


BATTERIES AND CABLES

T-76332

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70695469	1	BATTERY, storage, 12 - volt, dry-charged (Requires 6.72 quarts electrolyte)	
1A	70243526	1	ELECTROLYTE ("Z" pack - 6.1 quarts)	} Not illustrated
	70243527	1	ELECTROLYTE ("F" pack - 5 gallons)	
1B	70243528	1	HOSE, electrolyte dispensing (For use with 5 gallon pack)	
2	77108779	1	HOLD-DOWN, battery	
3	77108777	1	ROD, battery hold-down (short)	
	70911114	1	WASHER, plain, SAE std., 1/4"	
	70911024	1	NUT, 1/4"NC	
4	77108778	1	ROD, battery hold-down (long)	
	70911114	1	WASHER, plain, SAE std., 1/4"	
	70911024	1	NUT, 1/4"NC	
5	-----	1	BOARD, battery spacing (Procure locally)	
6	70674414	1	CABLE, battery to ground	
7	70674415	1	CABLE, battery to starter (Eff. on S/N 24A00201 also 56Y02201) (Not used on units equipped with Air Heater)	
	70677349	1	CABLE, battery to starter (Effective on S/N 75Y00201)	
	70919312	1	LOCKWASHER, plated, 3/8"	
	70917421	1	NUT, 3/8"NC	
8	70036888	2	GROMMET, cable protecting (one less used on Diesel - powered units equipped with Air Heater)	

(Revised May 1978)

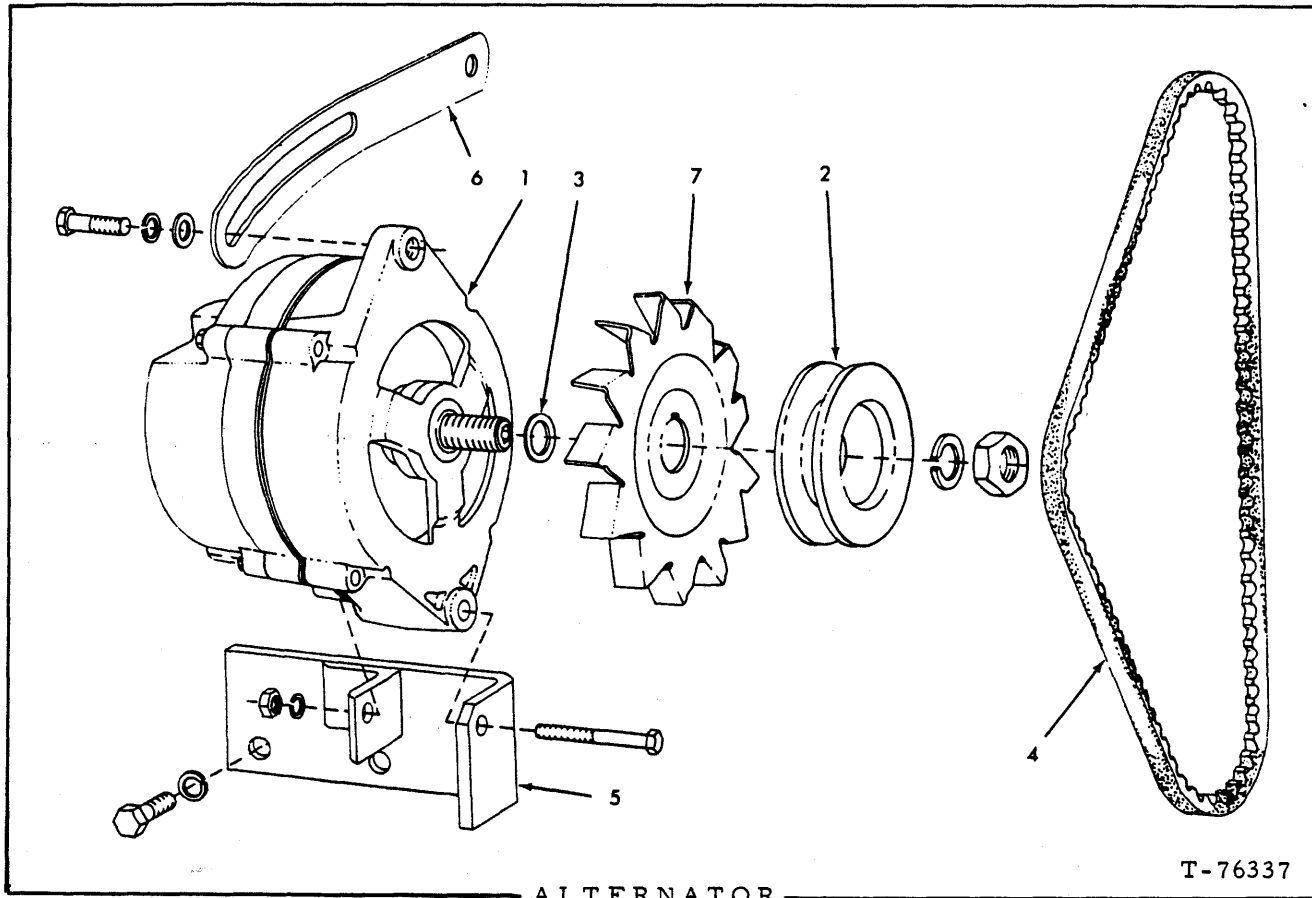


ALTERNATOR

T-76337

USAGE: Diesel-powered, effective serial No. 24A00201 thru 24A01527

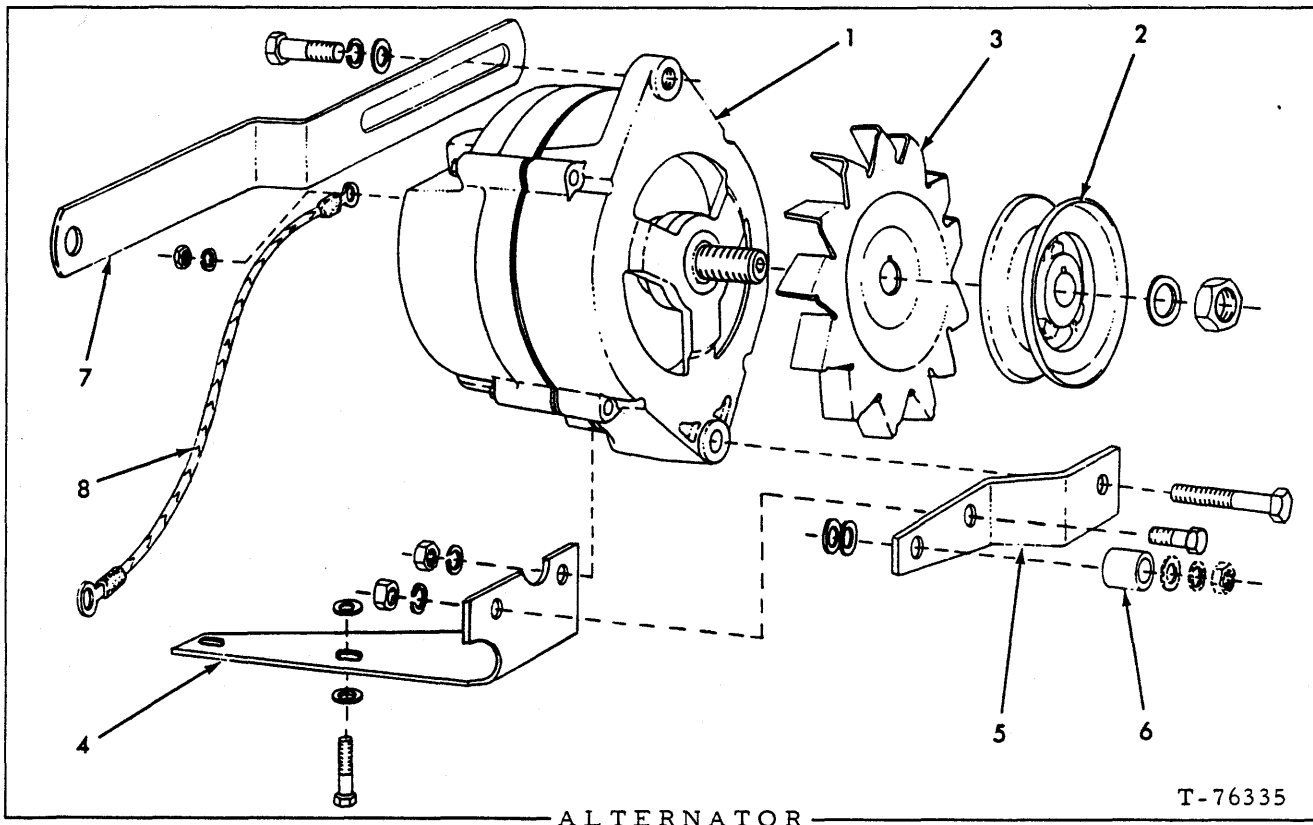
ITEM	PART NO.	QTY.	DESCRIPTION
1	70669277	1	ALTERNATOR ("Delco-Remy" #1100805)(Order parts from local service agency)
	70922848	1	CAPSCREW, 3/8"NC x 3-1/4"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
2	74848486	1	PULLEY, only (Graders unit #01511 and up)
	74750014	1	PULLEY (Has integral Fan)(Graders prior to unit #01511)
2A	73057632	1	FAN, alternator cooling (Graders unit #01511 and up)
3	70912021	1	WASHER, spacing
4	70665318	1	BELT, alternator drive
5	74789809	1	BRACKET, alternator mounting
	70921175	2	CAPSCREW, 1/2"NC x 1"
	70912441	2	LOCKWASHER, 1/2"
6	74023007	1	BRACE, alternator adjustment
	70921566	1	CAPSCREW, 5/16"NC x 1"
	70910286	1	LOCKWASHER, 5/16"
	70901165	1	WASHER, plain, U.S. std., 5/16"
7	70671693	1	CABLE, alternator ground
	70910284	1	LOCKWASHER, #10
	70910251	1	NUT, #10 NF



USAGE: Diesel-powered effective serial No. 24A01528, 56Y02201

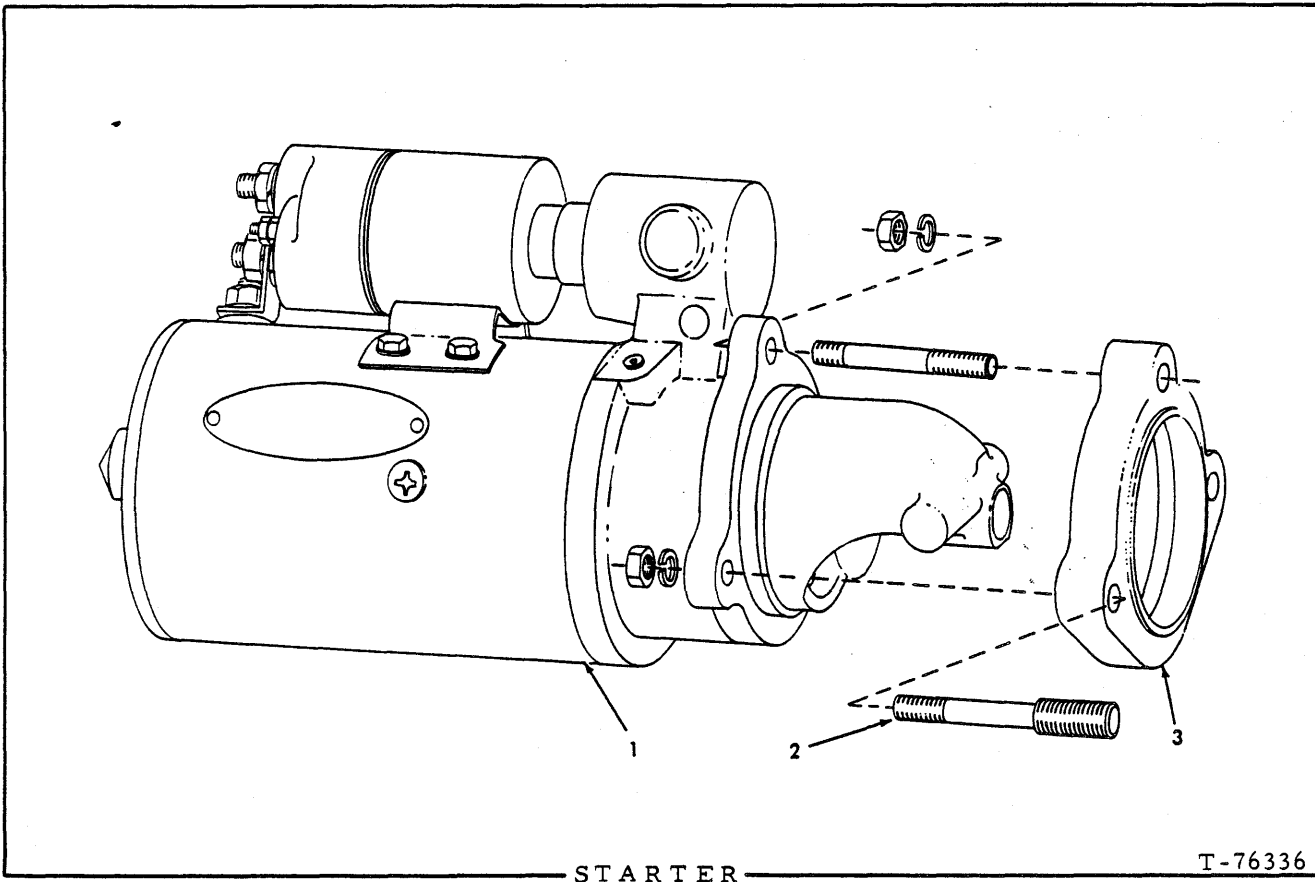
ITEM	PART NO.	QTY.	DESCRIPTION	
1	73057631	1	ALTERNATOR (Standard, 37 amp.) (Delco-Remy #1100578)	Each includes regulator. Order parts from local Service Agency.
	73058328	1	ALTERNATOR (Heavy-duty, 61 amp.) (Delco-Remy #1100581)	
	70922848	1	CAPSCREW, 3/8"NC x 3-1/4"	
	70910287	1	LOCKWASHER, 3/8"	
	70911026	1	NUT, 3/8"NC	
2	74848486	1	PULLEY	
3	70912021	1	WASHER, spacing	
4	70665318	1	BELT, alternator drive	
5	74789809	1	BRACKET, alternator mounting	
	70921175	2	CAPSCREW, 1/2"NC x 1"	
	70912441	2	LOCKWASHER, 1/2"	
6	74023007	1	BRACE, alternator adjustment	
	70921566	1	CAPSCREW, 5/16"NC x 1"	
	70910286	1	LOCKWASHER, 5/16"	
	70901165	1	WASHER, plain, U.S. std., 5/16"	
7	73057632	1	FAN, alternator cooling	

(Revised May 1978)



USAGE: Gas-powered, effective serial No. 75Y00201

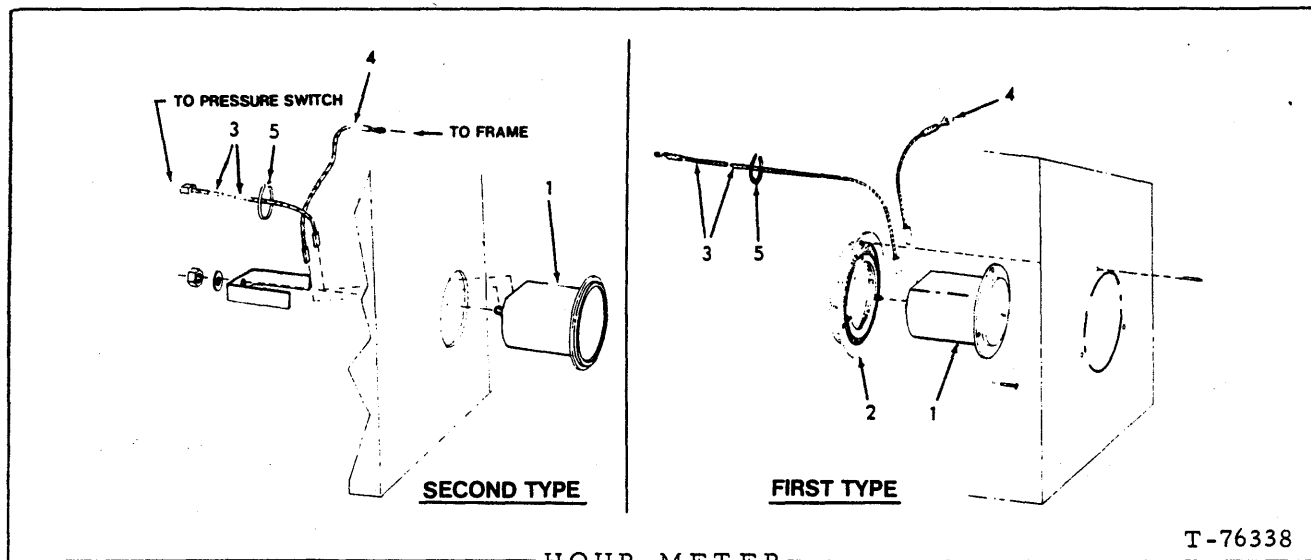
ITEM	PART NO.	QTY.	DESCRIPTION
1	70669277	1	ALTERNATOR, ("Delco-Remy" #1100805)(Order parts from local service agency)
	70922848	1	CAPSCREW, 3/8"NC x 3-1/4"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
2	70665025	1	PULLEY
3	70239967	1	FAN
4	70685430	1	BRACKET, alternator mounting
	70921977	2	CAPSCREW, 5/16"NC x 1"
	70677005	4	WASHER, spacing (Use as required)
5	70665324	1	BRACE, mounting bracket
	70922763	1	CAPSCREW, 3/8"NC x 1"
	70910287	1	LOCKWASHER, 3/8"
	70911026	1	NUT, 3/8"NC
	70929156	2	WASHER, spacing (Use as required)
6	70227309	1	BLOCK, spacing
7	70665323	1	BRACE, alternator adjustment
	70921566	1	CAPSCREW, 5/16"NC x 1"
	70910286	1	LOCKWASHER, 5/16"
	70901165	1	WASHER, plain, U.S. std., 5/16"
8	70671693	1	CABLE, alternator ground
	70910284	1	LOCKWASHER, #10
	70910251	1	NUT, #10NF



		* Diesel - powered, effective serial No. 24A00201, 56Y02201	
		** Gas - powered, effective serial No. 75Y00201	
ITEM	PART NO.	QTY.	DESCRIPTION
		* **	
1	70677277	1 -	MOTOR, starting ("Delco-Remy" #1113215)
	70242136	- 1	MOTOR, starting ("Delco-Remy" #1107356)
	70921565	2 -	CAPSCREW, 3/8"NC x 1-1/2" (Graders prior to unit #00351)
	70681804	2 -	STUD, 3/8"NC x 3" (Graders unit #00351 and up)
	70922763	- 3	CAPSCREW, 3/8"NC x 1"
	70910287	2 3	LOCKWASHER, 3/8"
	70910324	2 -	NUT, 3/8"NC (Graders unit #00351 and up)
2	77125010	1 -	STUD (2-3/8" long)(Graders prior to unit #00351)
	70681805	1 -	STUD (3-3/4" long)(Graders unit #00351 and up)
	70910287	1 -	LOCKWASHER, 3/8"
	70910324	1 -	NUT, 3/8"NC
3	70681807	1 -	ADAPTER, starting motor (Effective with grader unit #00351)

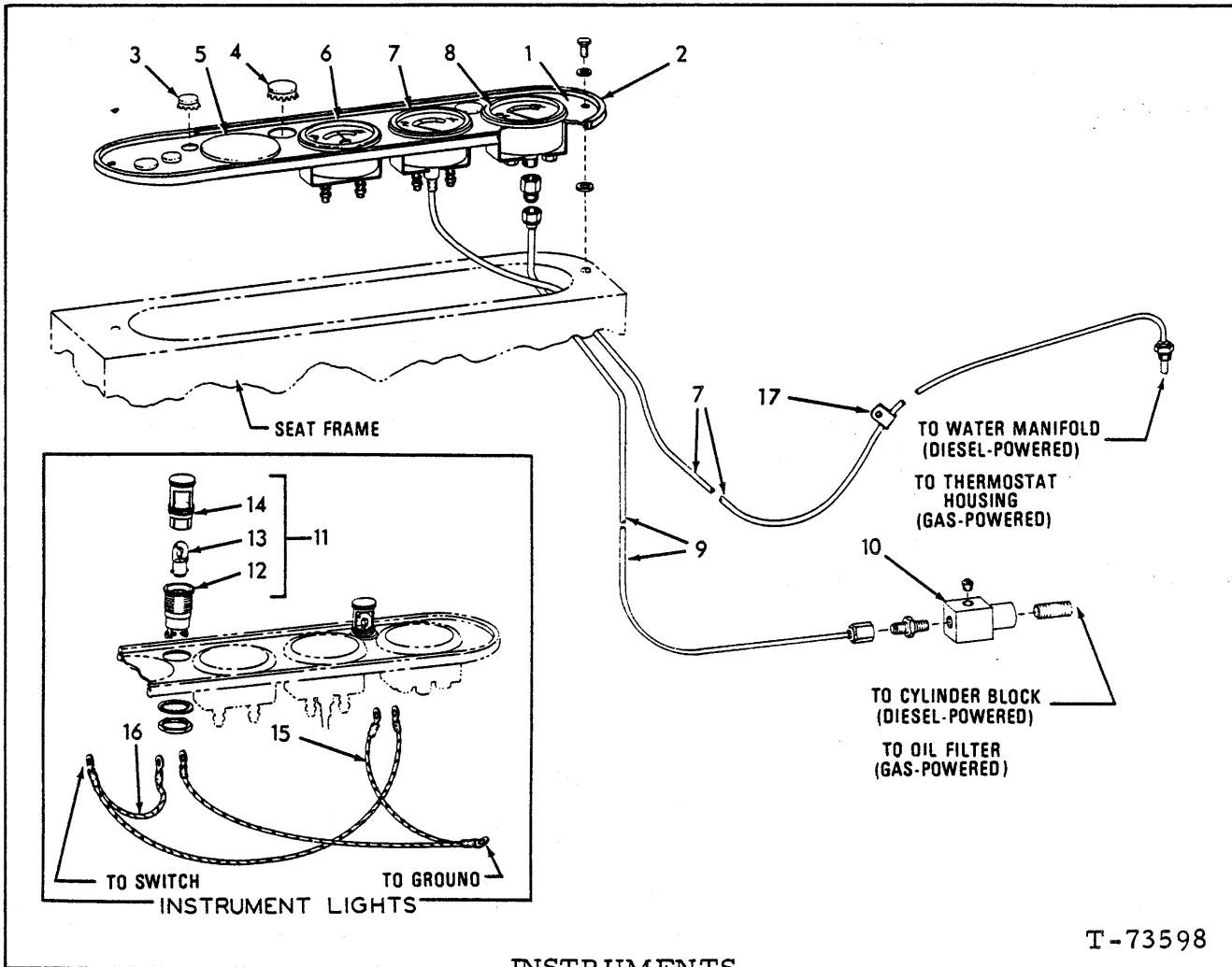
NOTE: Order starter parts from local United Motors Service Agency.

(Revised May 1978)



USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70650299	1	METER, hour (Graders prior to unit #01370 including unit #01425) (See NOTE below)
	70918210	3	SCREW, thread-cutting, #6 x 1/2" (Includes lockwasher)
	70691930	1	METER, hour (Graders unit #01370 and up excluding unit #01425) (See NOTE below)
NOTE: Meter carries manufacturer's warranty and in case of failure should not be returned to Fiat-Allis. Return "Hobbs" meter to nearest "Stewart-Warner" agency. Return "Hamilton" meter to Hamilton Watch Co., Industrial Products Division, Lancaster, Pennsylvania.			
2	70066467	1	DAMPER, vibration (Grader prior to unit #01370 including unit #01425)
	70918210	3	SCREW, thread-cutting, #6 x 1/2" (Includes Lockwasher)
3	70675305	1	CABLE, meter to pressure switch
4	70675306	1	CABLE, meter ground
5	73044015	3	TIE, cable supporting



T-73598

INSTRUMENTS

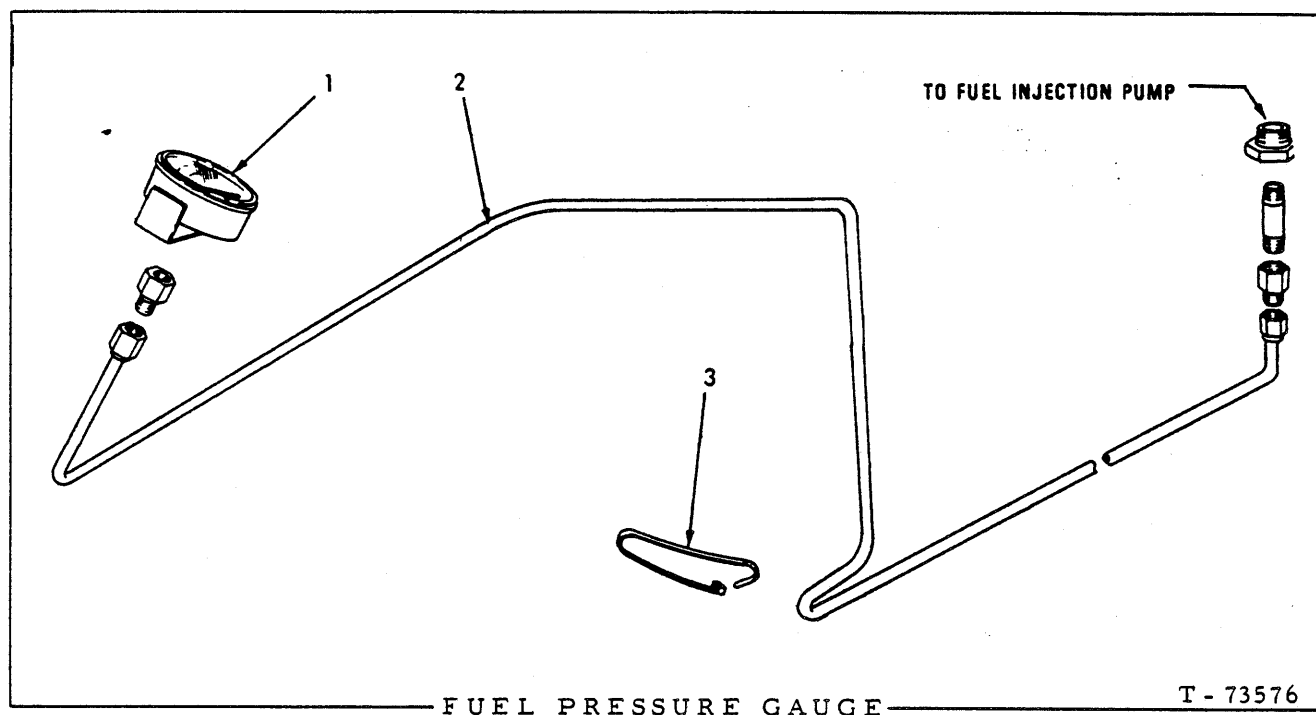
ITEM	PART NO.	QTY.	DESCRIPTION
1	70674796	1	PANEL, instrument
	70928138	2	CAPSCREW, 1/4"NC x 5/8"
	70918264	2	WASHER, plain, SAE, std., 1/4"
	70924817	2	WASHER
2	70674795	1	SEAL, weather, instrument panel
3	70922803	1	PLUG, button, cd-pltd., 1/2" hole-diam. (Not used on units equipped with lights)
4	70921191	4	PLUG, button, cd-pltd., 11/16" hole-diam. (2 less used on units equipped with dash lights)
5	70921193	1	PLUG, button, cd-pltd., 2-3/32" hole-diam. (Not used on Diesel Powered units equipped with pressure gauge)
6	70658348	1	AMMETER (Includes mounting clamp)(Graders prior to unit #02010)
	70695983	1	AMMETER (Includes mounting clamp)(Grader unit #02010 and up)
7	70658620	1	GAUGE, engine temperature (Includes mounting clamp) (Graders prior to unit #02010)
	70697262	1	GAUGE, engine temperature (Includes mounting clamp) (Grader unit #02010 and up)

(Continued)

(Revised May 1976)

INSTRUMENTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70658293	1	GAUGE, engine oil pressure (Includes mounting clamp) (Graders prior to unit #02010)
	70691745	1	GAUGE, engine oil pressure (Includes mounting clamp) (Graders unit #02010 and up)
9	70095858	1	TUBE ASSY., oil pressure gauge (Includes nuts)(Effective on S/N 24A00201 also 56Y02201)
	70659109	1	TUBE ASSY., oil pressure gauge (Includes nuts)(Effective on S/N 75Y00201)
	70919827	1	CONNECTOR, flare type, 3/16" tube, 1/8"NPT Female
	70919244	1	CONNECTOR, flare type, 3/16" tube, 1/8"NPT male
10	70094450	1	TEE, pressure switch connection
	70901651	1	PLUG, pipe, 1/8"NPT
	70904273	1	NIPPLE, pipe, 1/8"NPT x 1"
11	73023024	2	LIGHT ASSY., panel (Consists of items 12 thru 14)
12	-----	2	BASE ASSY. (Not serviced separately)
13	73046487	2	BULB, incandescent, 12 volt
14	73037183	2	SHIELD, panel light
15	70675236	1	CABLE, panel lights to ground
16	70671737	1	CABLE, switch to panel lights
17	70200479	1	CLIP



USAGE: Special equipment. Diesel - powered, effective serial No. 24A00201, 56Y02201

ITEM	PART NO.	QTY.	DESCRIPTION
1	70658356	1	GAUGE, fuel pressure (Includes mounting clamp)
2	70094665	1	TUBE ASSY. (Includes nuts)
	70919827	2	CONNECTOR, flare type, 3/16" tube, 1/8"NPT female
	70901468	1	NIPPLE, pipe, 1/8"NPT x 1-1/2"
3	73044015	1	TIE, tube supporting

(Revised May 1978)

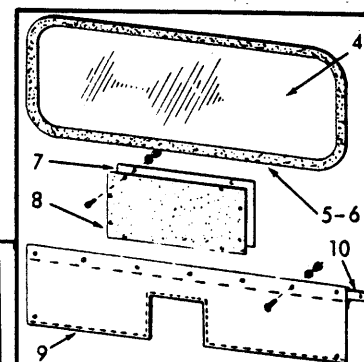
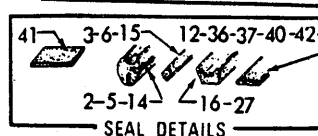
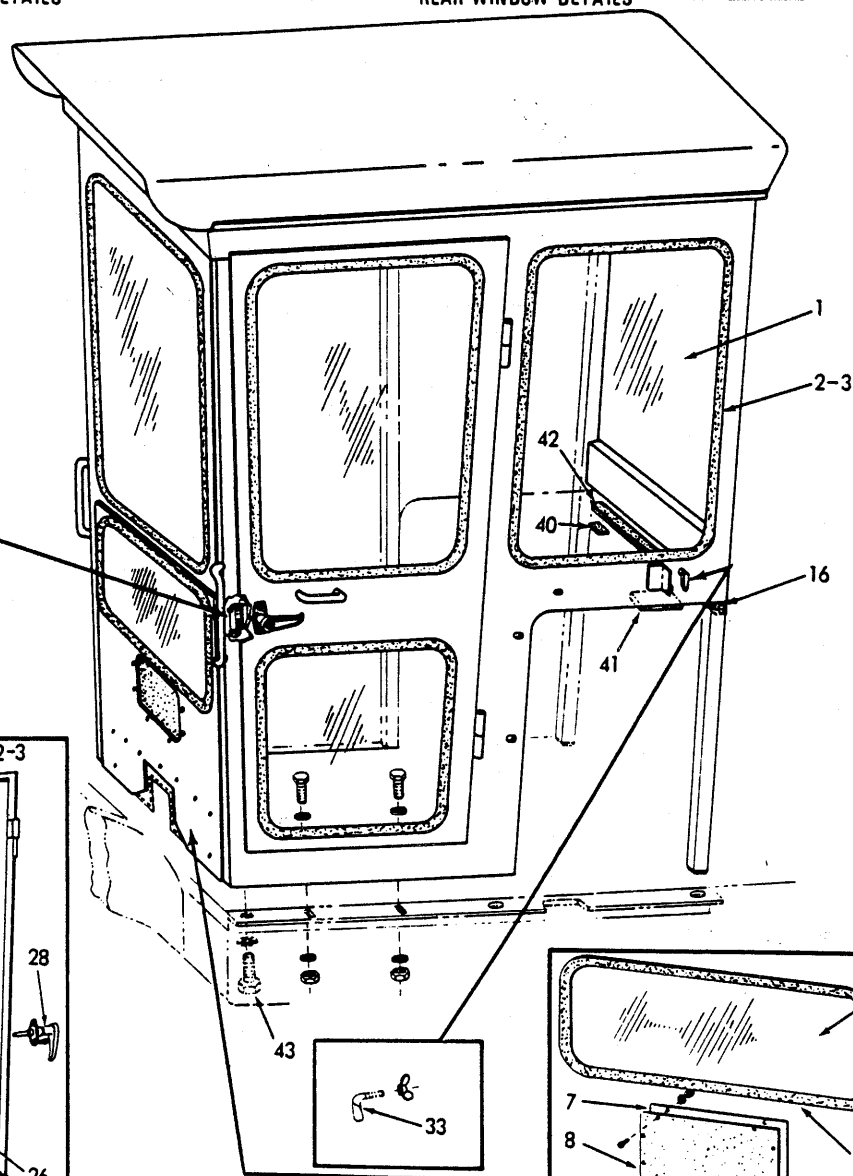
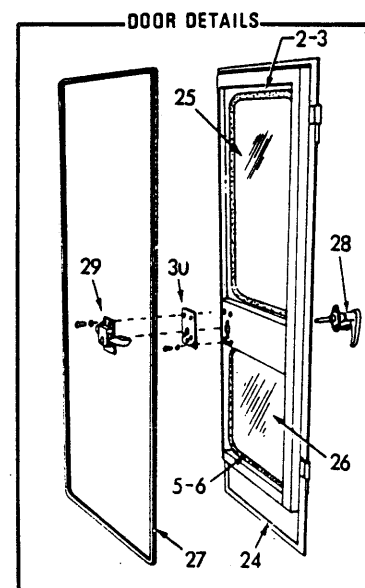
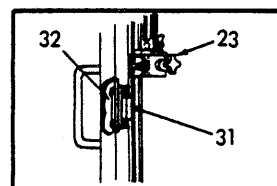
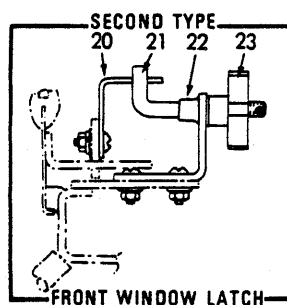
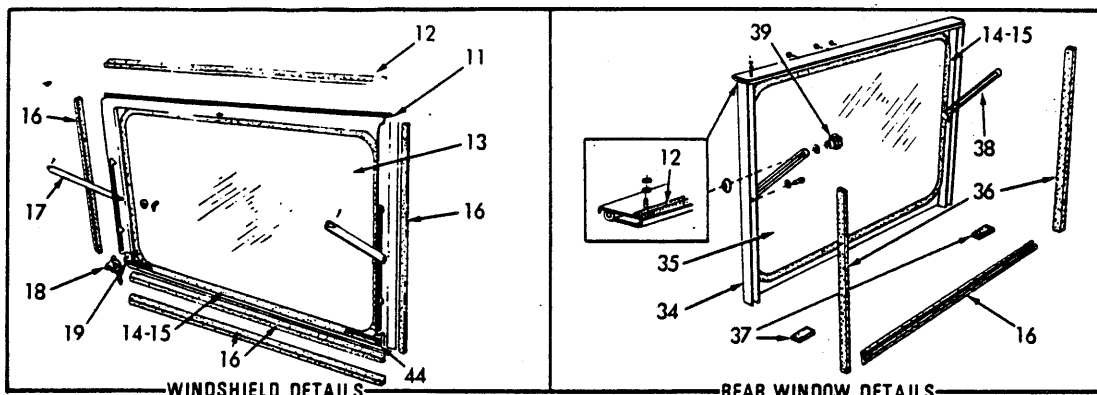
C A B

USAGE: Special Equipment

ITEM	PART NO.	QTY.	DESCRIPTION
-	70695224	1	CAB ASSY. (Includes items 1 thru 42)(Non ROPS)
	70921076	6	CAPSCREW, 3/8"NC x 1-1/4" }
	70900817	12	WASHER, plain Cab to Tank
	70911026	6	NUT, 3/8"NC }
-	70692351	1	CAB ASSY. (Includes items 1 thru 43) }
-	70693777	1	CAB, only (Stripped of all removable parts) } ROPS
	70921566	10	CAPSCREW, 5/16"NC x 1" }
	70901165	20	WASHER, plain Cab-to-Seat
	70911025	10	NUT, 5/16"NC }
	70921565	4	CAPSCREW, 3/8"NC x 1-1/2" }
	70677006	8	WASHER, plain Sill-to-Fender
	70911026	4	NUT, 3/8"NC (ROPS)
1	-----	2	GLASS, side panel (Part No. 70681432. See Note below)
2	70079919	4	SEAL, side panel and upper door glass
3	70079921	4	STRIP, expanding, side panel and upper door glass seal
4	-----	1	GLASS, lower front panel (Part No. 70681427. See Note below)
5	70077783	3	SEAL, front panel and lower door glass
6	70077765	3	STRIP, expanding, front panel and lower door glass seal
7	70681457	1	RETAINER, front panel
	70918155	8	SCREW, truss-hd., 1/4"NC x 1/2"
	70921880	8	LOCKWASHER, ext. tooth, 1/4"
	70916205	8	NUT, speed, 1/4"NC
8	70681456	1	SEAL
9	70681426	1	SEAL, front panel (canvas)
	70918155	9	SCREW, truss-hd., 1/4"NC x 1/2"
	70921880	9	LOCKWASHER, ext. tooth 1/4"
	70916205	9	NUT, speed, 1/4"NC
10	70681458	1	BAR, seal
11	70681342	1	FRAME, windshield (Non-ROPS)
	70693778	1	FRAME, windshield (ROPS)
	70918157	6	SCREW, truss-hd., 1/4"NC x 3/4"
	70911114	6	WASHER, plain, SAE std., 1/4"
	70904204	6	LOCKWASHER, 1/4"
	70911024	6	NUT, 1/4"NC
12	70681349	1	STRIP, windshield and rear window frame hinge
13	-----	1	GLASS, windshield (Part No. 70681343. See Note Below)
14	70663246	1	SEAL, windshield and rear window glass
15	70663233	1	STRIP, filler, windshield and rear window glass
16	70642526	7	SEAL
17	70641974	2	ARM, windshield adjustment
	70900806	2	PIN, cotter, 1/8" x 1" }
	70910244	2	WASHER, plain, 1/2" Non ROPS
	70915018	2	NUT, wing, 1/2"NC }
	70690506	2	ARM, windshield adjustment
	70900806	2	PIN, cotter, 1/8" x 1" }
	70693813	4	SPACER, inner ROPS
	70641961	2	SPACER, outer
	70915018	2	NUT, wing, 1/2"NC }

(Continued)

(Revised May 1978)



C A B

T-78407

(Revised July 1975)

C A B (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
18	70681439	1	CATCH ASSY., windshield, left (Serviced only as a unit)	} Early Type
	70681440	1	CATCH ASSY., windshield, right (Serviced only as a unit)	
	70918157	6	SCREW, truss head, 1/4"NC x 3/4"	
	70911114	6	WASHER, plain, 1/4"	
	70904204	6	LOCKWASHER, 1/4"	
	70911024	6	NUT, 1/4"NC	
19	70681344	2	PLATE, windshield (Early type)	
	70918157	4	SCREW, truss head, 1/4"NC x 3/4"	
	70904204	4	LOCKWASHER, 1/4"	
	70911114	4	WASHER, plain, 1/4"	
20	70693141	1	BRACKET, left	
	70693142	1	BRACKET, right	
	70918157	4	SCREW, truss-head, 1/4"NC x 3/4"	
	70911114	4	WASHER, plain, SAE std., 1/4"	
	70904204	4	LOCKWASHER, 1/4"	
	70911024	4	NUT, 1/4"NC	
21	70693144	2	HOOKBOLT	
22	70693140	2	BRACKET	
	70918157	6	SCREW, truss-hd., 1/4"NC x 3/4"	
	70911114	6	WASHER, plain, SAE std., 1/4"	
	70904204	6	LOCKWASHER, 1/4"	
	70911024	6	NUT, 1/4"NC	
23	70693145	2	KNOB, windshield hookbolt	
	70900817	2	WASHER, plain, 3/8"	
24	70681351	1	DOOR, left	} Cabs prior to #230201
	70681352	1	DOOR, right	
	70682537	1	DOOR, left	
	70682538	1	DOOR, right	
	70693335	1	DOOR, left	
	70693336	1	DOOR, right	
				} Cabs #230201 thru #242900
				} Cabs #242901 and up
				} Stripped of all removable parts
25	-----	2	GLASS, door, upper (Part No. 70681437)	} See Note Below
26	-----	2	GLASS, door, lower (Part No. 70681438)	
27	70642528	2	SEAL, door	
28	70681453	2	HANDLE, door, outside (Cabs prior to #230201)	
	70918155	4	SCREW, truss-hd., 1/4"NC x 1/2"	
	70921880	4	LOCKWASHER, ext-tooth, 1/4"	
	70682591	2	HANDLE, door, outside (Cabs #230201 thru #A242900)	
	70918147	4	SCREW, truss-hd., #10NF x 1/2"	
	70914193	4	LOCKWASHER, int-tooth, #10	
	70690876	2	HANDLE, door, outside (locking type. Includes item 28A) (Cabs #A242901 and up)	
	70918149	4	SCREW, truss-hd., #10-32NF x 3/4"	
	70910243	4	WASHER, plain, SAE std., #10	
	70919415	4	NUT, #10-32NF (plated)	
28A	73108930	2	KEY (Not illustrated)	

(Continued)

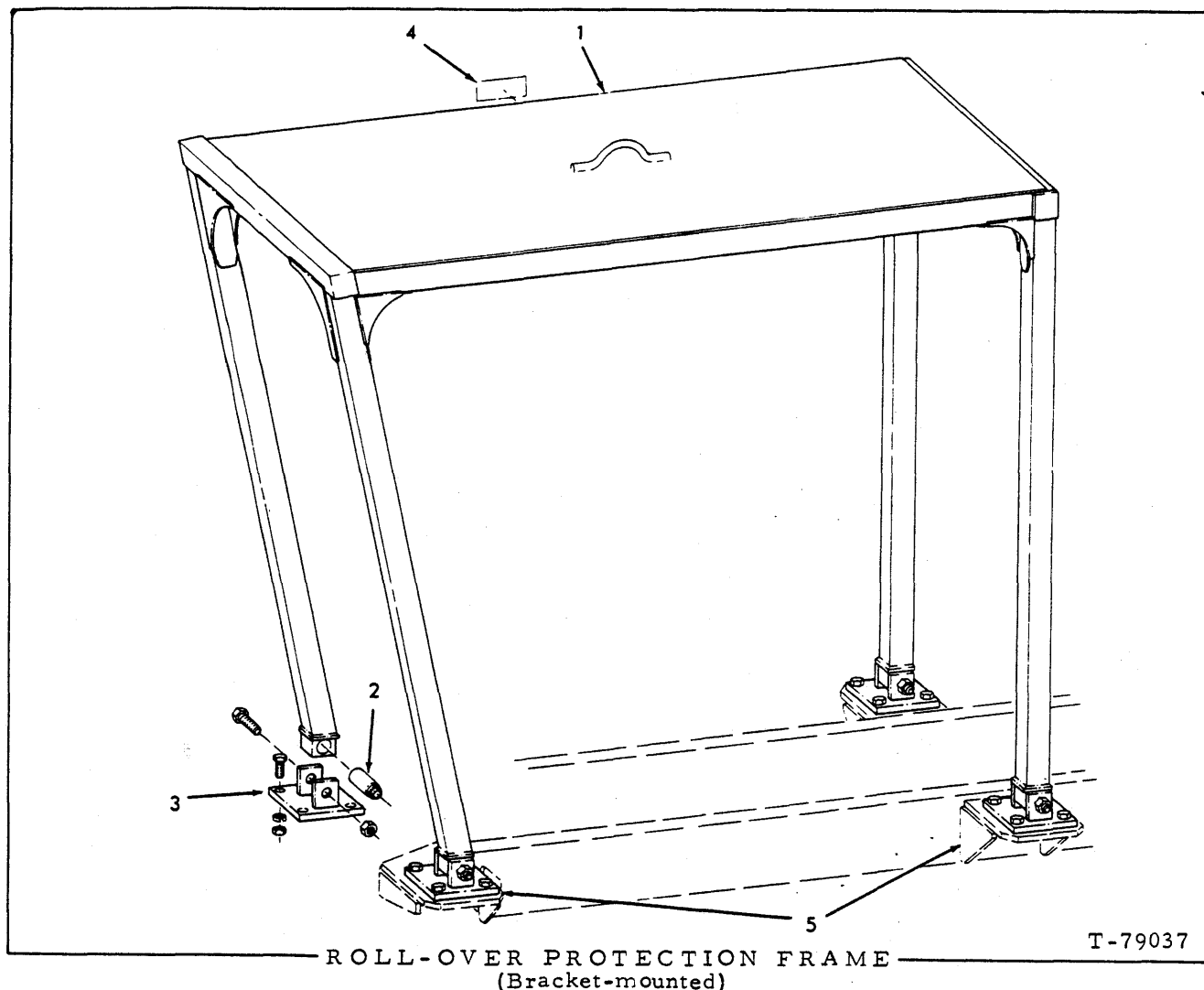
(Revised May 1978)

C A B (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
29	70669589	1	LATCH, left door
	70669590	1	LATCH, right door
	70918147	12	SCREW, truss-hd., #10-32NF x 1/2"
	70904203	12	LOCKWASHER, #10
30	70693337	1	PLATE, mounting, left door latch
	70693338	1	PLATE, mounting, right door latch
31	70633545	2	PLATE, striker, door latch
	70918157	4	SCREW, truss-hd., 1/4"NC x 3/4"
	70914194	4	LOCKWASHER, int-ext-tooth, 1/4"
	70694629	2	PLATE, striker, door latch
	70918156	4	SCREW, truss-hd., 1/4"NC x 5/8"
	70914105	4	LOCKWASHER, ext-tooth, 1/4"
32	70669585	4	NUT, strike plate screw (twin pilot)
33	70681455	2	HOOK, door hold-back
	70681569	2	NUT, wing, 5/8"NC
34	70681350	1	FRAME, rear window (Non ROPS)
	70693779	1	FRAME, rear window (ROPS)
	70918249	12	SCREW, truss-hd., 5/16"NC x 3/4"
	70904205	12	LOCKWASHER, 5/16"
	70910323	12	NUT, 5/16"NC
35	-----	1	GLASS, rear window (Part No. 70681353. See Note below)
36	70694634	2	SEAL, rear window (1" x 18")
37	70681348	2	SEAL, rear window (3/4" x 1-1/4")
38	70695508	2	ARM, rear window adjustment
	70911114	2	WASHER, plain, SAE std., 1/4"
	70910297	2	RIVET, truss head, 1/4" x 5/8"
39	70695507	2	KNOB, rear window adjustment
	70910335	2	WASHER, plain, 5/16"
	70681358	2	WASHER, plain
40	70682557	2	SEAL, corner (1" x 1-1/4")
41	70695504	2	SEAL, corner (3-5/8" x 3-5/8")
42	70694635	1	SEAL,
43	70926785	6	CAPSCREW, 1"NC x 2-3/4"
	70928452	6	WASHER, plain
44	70697102	1	SEAL

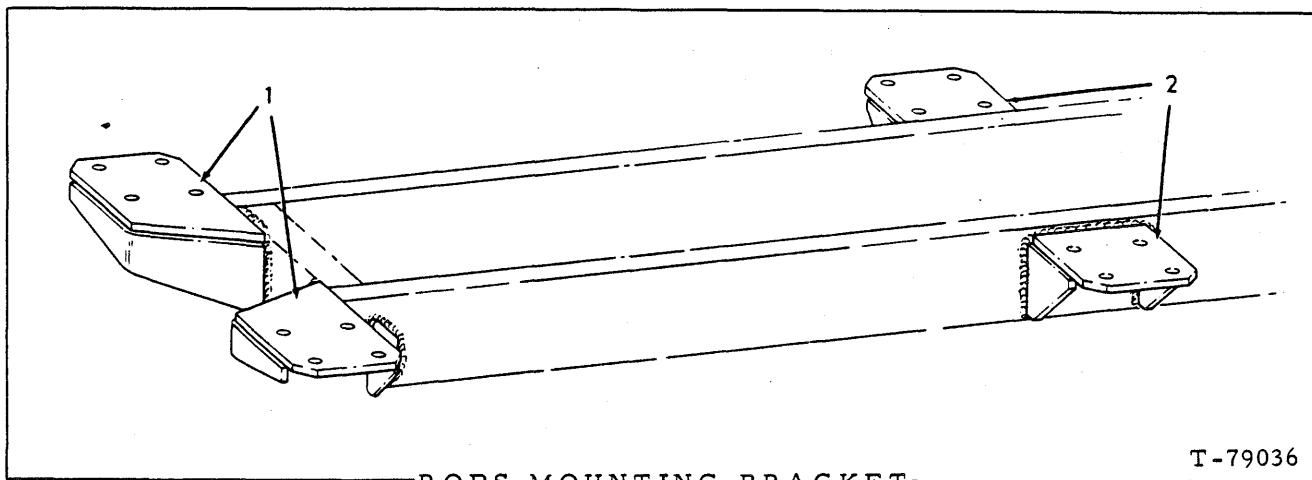
NOTE: Glass must be procured locally. See
CAB GLASS DATA CATALOG for pattern.

(Revised May 1978)



USAGE: Special Equipment All graders serial No. 75Y00201 and up; also graders prior to serial No. 24A01528

ITEM	PART NO.	QTY.	DESCRIPTION
1	70685389	1	FRAME
	70921241	4	CAPSCREW, 1"NC x 6"
	70912845	4	NUT, elastic stop, 1"NC
2	70685147	4	BUSHING, corner block
3	70685208	4	BRACKET
	70927015	16	CAPSCREW, 1"NC x 3"
	70914728	16	LOCKWASHER, 1"
	70911032	16	NUT, 1"NC
4	70694786	1	DECAL, "ROPS"
5	-----	-	BRACKET (See ROPS MOUNTING BRACKETS)



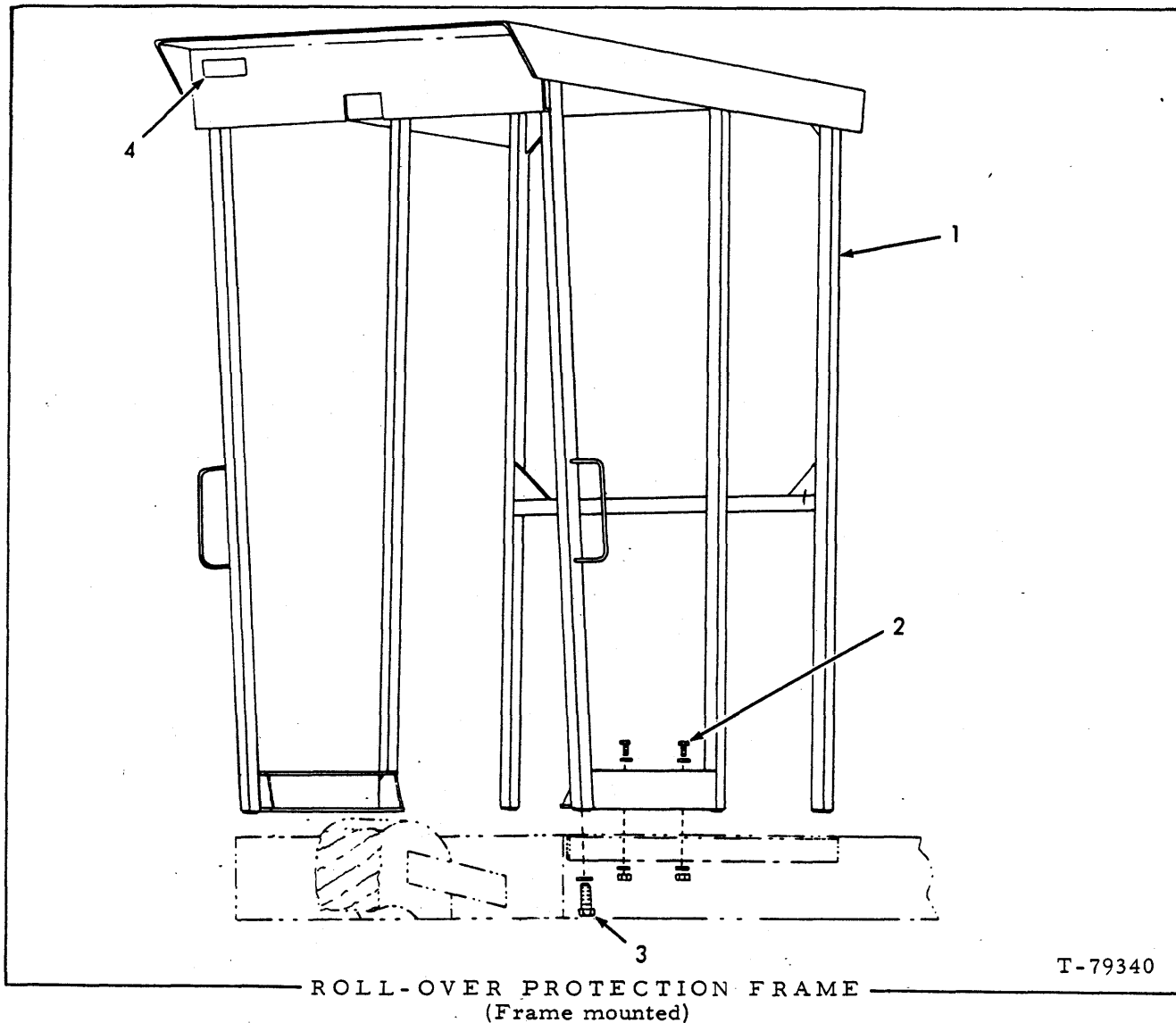
ROPS MOUNTING BRACKET

T-79036

USAGE: Special equipment. For mounting ROPS canopy on all Graders serial No. 75Y00201 and up; also Graders prior to serial No. 24A01528.

ITEM PART NO. QTY. DESCRIPTION

1	{	70680797	1	BRACKET, left front	}	Requires welding to install
		70680798	1	BRACKET, right front		
2		70680802	2	BRACKET, rear		



USAGE: Special equipment. Graders serial No. 24A01528, 56Y02201 and up.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70692352	1	FRAME
2	70921565	4	CAPSCREW, 3/8"NC x 1-1/2"
	70677006	8	WASHER, plain
	70911026	4	NUT, 3/8"NC
3	70926785	6	CAPSCREW, 1"NC x 2-3/4"
	70928452	6	WASHER, plain
4	70693833	1	DECAL, "ROPS"

(Revised May 1978)

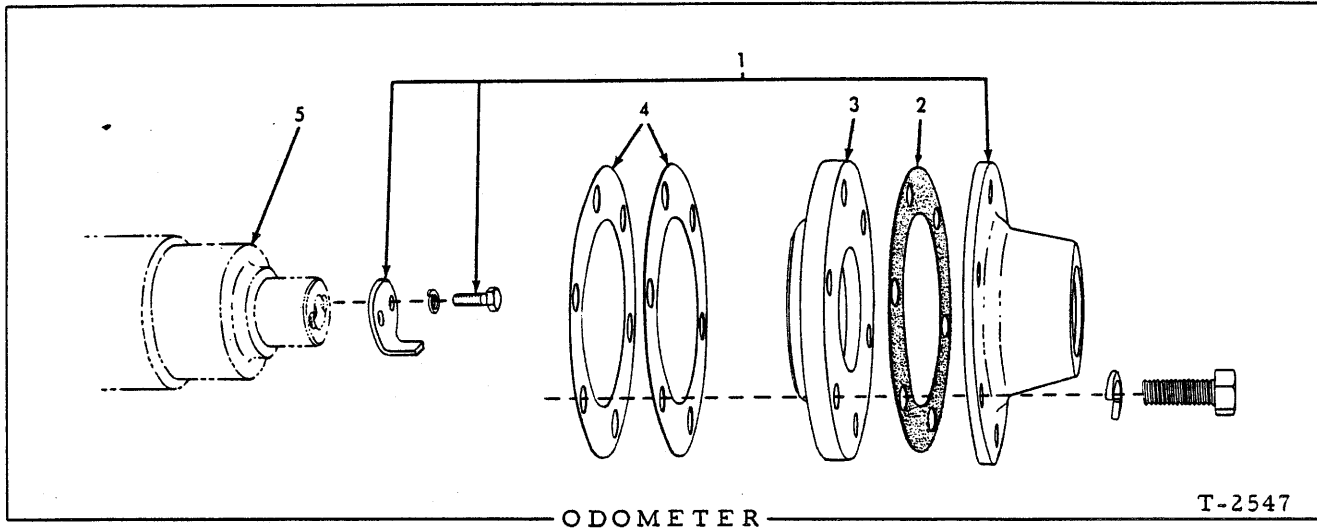
TIRE PUMP
(Not illustrated)

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
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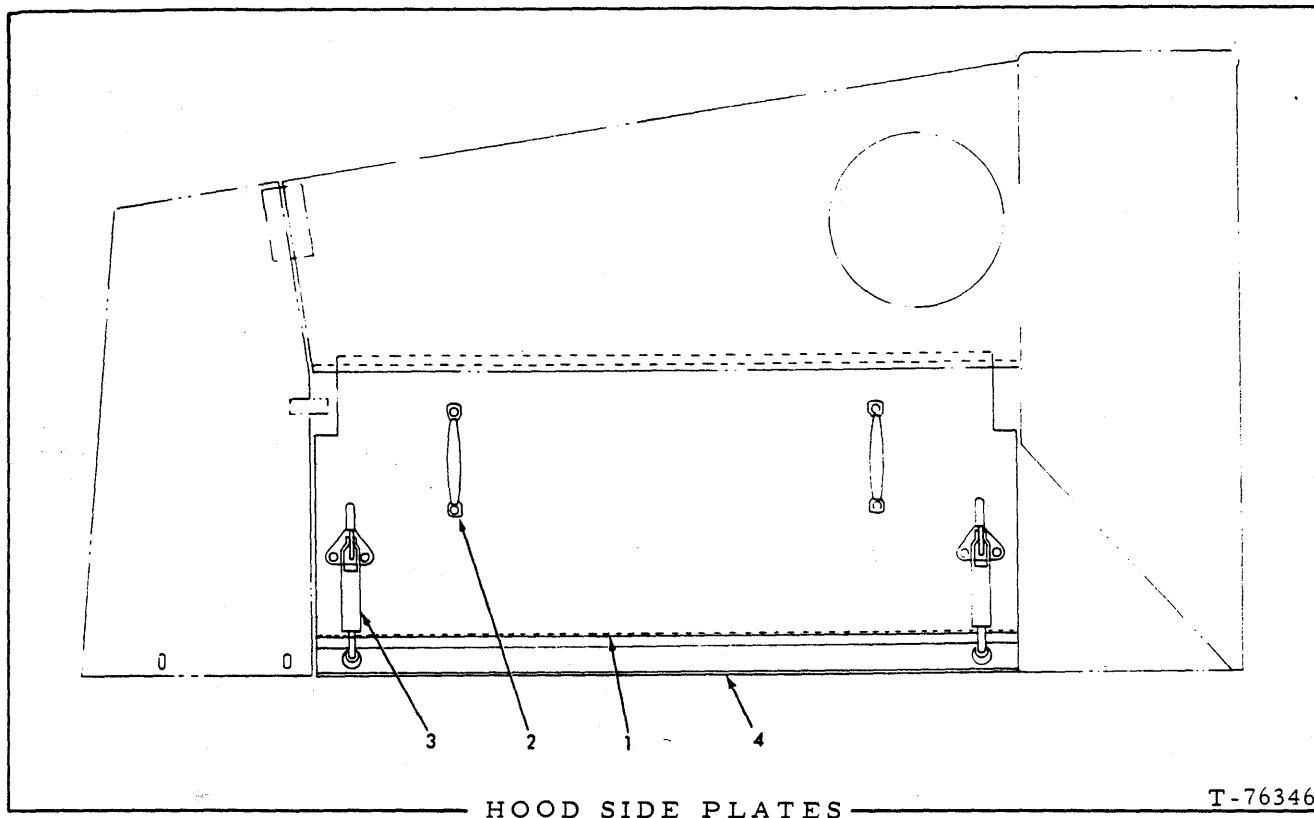
1	70076599	1	PUMP ASSY., tire (Model #127-12 volt. Order service parts from Johnson Service Co., 507 E. Michigan, Milwaukee, Wisconsin 53202) (Includes mounting hardware)
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(Revised May 1978)

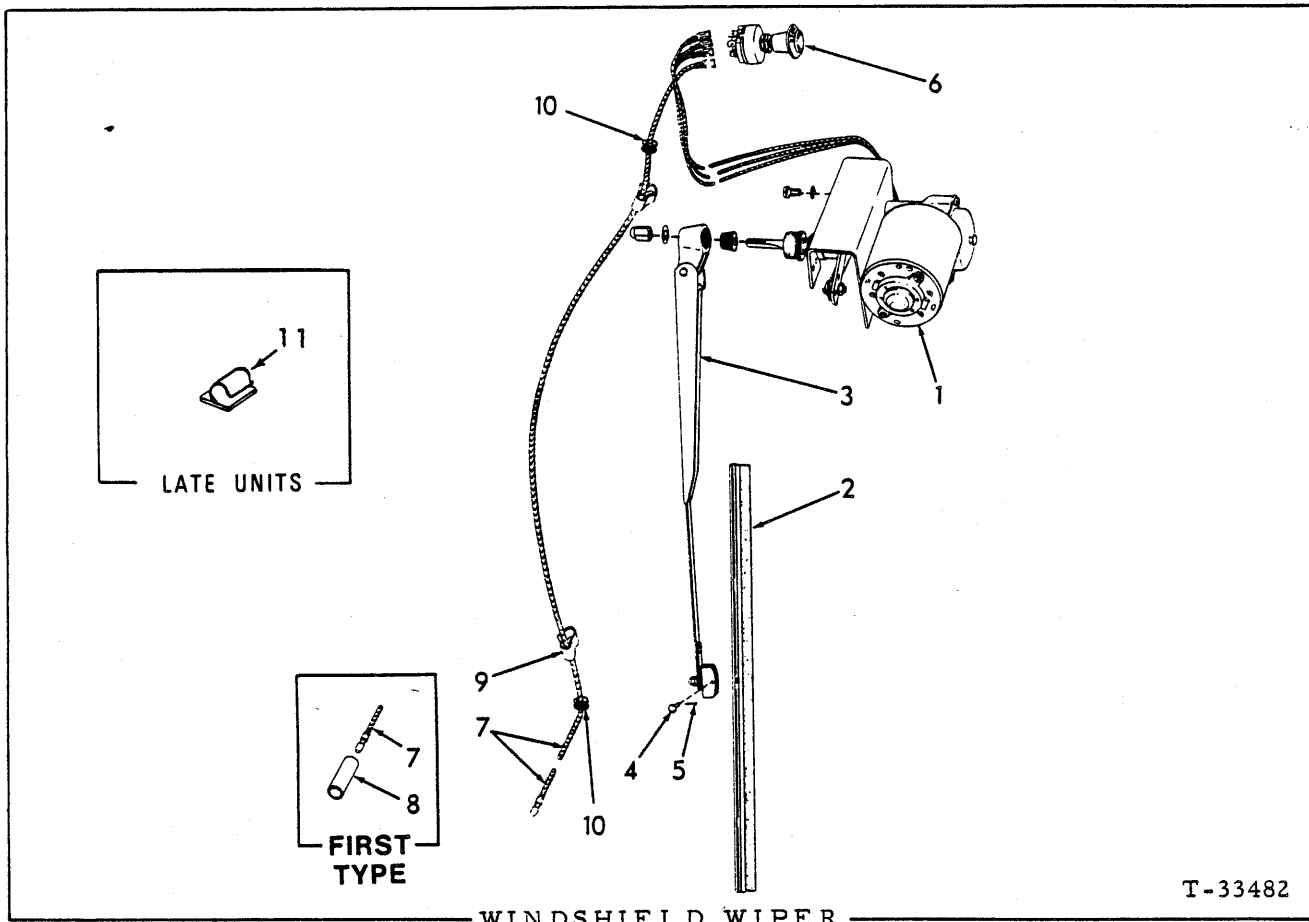


USAGE: Special equipment.

ITEM	PART NO.	QTY.	DESCRIPTION
1	70068349	1	ODOMETER ASSY. (registers miles)(Includes driving LUGS. Veeder-Root #W-74030-1. Order service parts from Veeder-Root Incorporated, Hartford, Connecticut)
	70068954	1	ODOMETER ASSY. (registers kilometers)(Includes driving LUGS. Veeder-Root #W-74030-1. Order service parts from Veeder-Root Incorporated, Hartford, Connecticut)
	70920583	5	CAPSCREW, 1/2"NC x 1-1/2"
	70023416	1	CAPSCREW, drilled-hd., 1/2"NC x 1-1/2"
	70912441	6	LOCKWASHER, 1/2"
2	70645318	1	GASKET, odometer
3	70068352	1	RETAINER, wheel shaft inner bearing
4	70054752	16	SHIM, wheel shaft bearing adjustment (.010" thick. Use as req'd)
	70054753	16	SHIM, wheel shaft bearing adjustment (.005" thick. Use as req'd)
5	-----	1	SPROCKET AND SHAFT, left rear wheel (See TANDEM)



ITEM	PART NO.	QTY.	DESCRIPTION
1	70676628	2	PLATE ASSY. (Includes items 2 and 3)
2	70032834	4	HANDLE, lifting
	70900764	8	RIVET, flat-hd., 3/16" x 1/2"
3	70033060	4	FASTENER, hood latching
	70900764	12	RIVET, flat-hd., 3/16" x 1/2"
4	70676626	2	ANGLE, hood latching (Requires welding to install)



T-33482

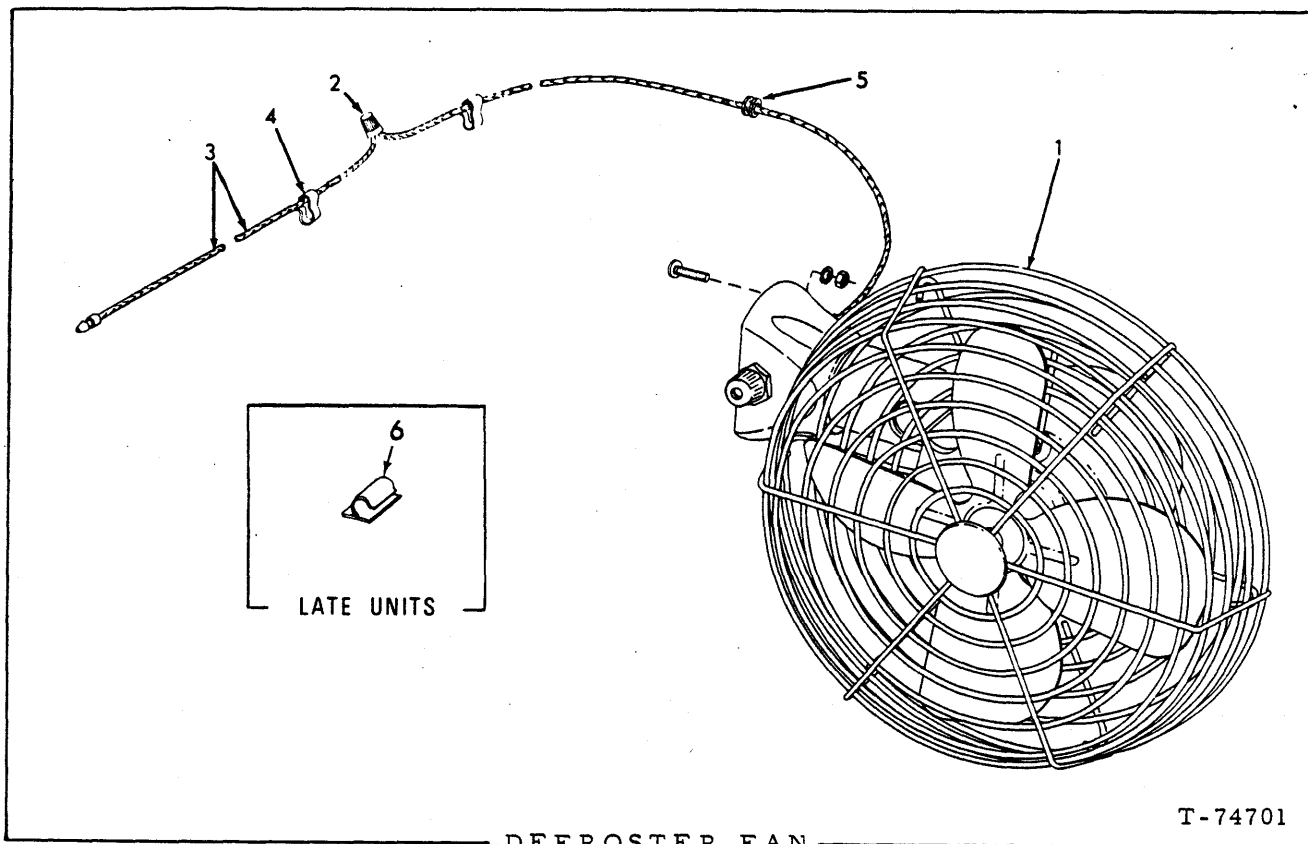
USAGE: Special equipment on graders equipped with stand-up type cab

*Prior to September 1974 with Douglas terminals

**Effective September 1974 with blade terminals

ITEM	PART NO.	QTY.	DESCRIPTION	
		* **		
1	70659545	1 -	MOTOR, windshield wiper (American Bosch Model WWC-12K-2612-118)	Includes Adapter, Washer and Nut. Order service parts from nearest authorized service agency
	70694297	- 1	MOTOR, windshield wiper (American Bosch Model WWC-12L-2612-118)	
	70928575	2 2	CAPSCREW, 1/4"NF x 1/2"	
	70910285	2 2	LOCKWASHER, 1/4"	
2	70628866	1 1	BLADE, wiping	
3	70628867	1 1	ARM ASSY., wiping blade (Includes items 4 and 5)	
4	62582	1 1	PIN, clevis, blade attaching	Order service parts from local ANCO dealer
5	61910	1 1	PIN, cotter, clevis pin	
6	70628508	1 -	SWITCH ASSY., motor (Includes mounting nuts)	
	70688313	- 1	SWITCH ASSY., motor (Includes mounting nuts)	
7	70079354	1 -	CABLE, switch to connector (110" long)	
	70694323	- 1	CABLE, switch to connector (110" long)	
8	70048142	1 -	CONNECTOR (two-way)	
9	70638986	7 7	CLIP, cable supporting	
10	70023176	- 2	GROMMET (ROPS Cab) (Early units)	
11	73059884	- 7	CLIP, adhesive back (Late units)	

(Revised May 1976)

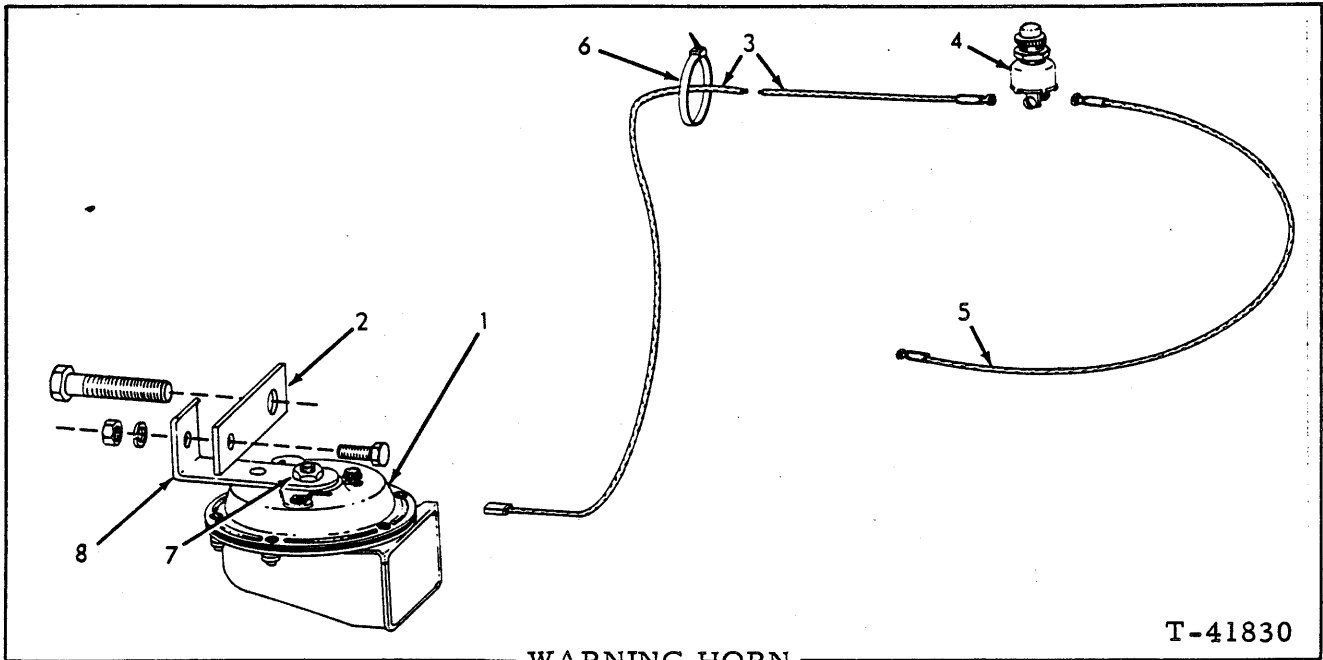


DEFROSTER FAN

T-74701

USAGE: Special equipment

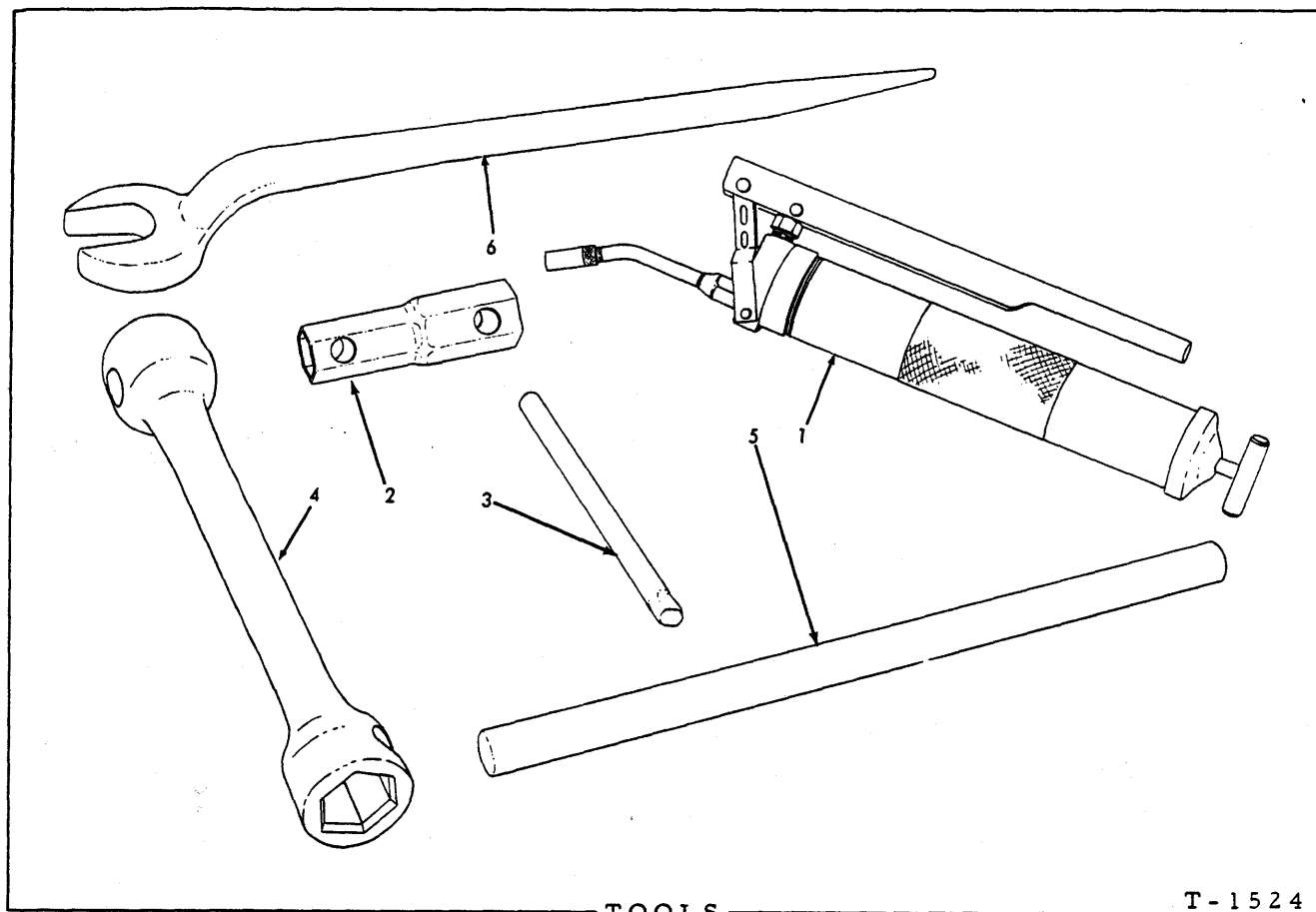
ITEM	PART NO.	QTY.	DESCRIPTION
1	70685913	1	FAN ASSY. (Includes motor, guard, pedestal, switch and wiring. Vendor's No. 96-12. Order parts from Perfection Division of Hupp Corporation, 1135 Ivanhoe Road, Cleveland Ohio 44110)
	70900555	4	SCREW, machine, #8-32NC x 3/4"
	70910283	4	LOCKWASHER, #8
	70907154	4	NUT, #8-32NC
2	70679148	1	NUT, wire
3	70694301	1	CABLE (89" long)
4	70638986	5	CLIP, cable supporting
5	70023176	2	GROMMET, corner post (Early units)
6	73059884	7	CLIP, adhesive back (Late units)



WARNING HORN

USAGE: Special equipment on graders prior to unit #00642; standard thereafter.

ITEM	PART NO.	QTY.	DESCRIPTION
1	73114177	1	HORN ASSY. (12-volt)(Includes items 7 and 8)
	70922925	1	CAPSCREW, 5/16"NC x 3/4"
	70910286	1	LOCKWASHER, 5/16"
	70911025	1	NUT, 5/16"NC
2	70641694	1	PLATE, mounting
	70924864	1	CAPSCREW, 1/2"NC x 2-1/4"
3	73110111	1	CABLE, horn to switch
4	70031337	1	SWITCH, push-button
5	70676797	1	CABLE, switch to ammeter
6	70196765	1	STRAP, cable supporting
7	73042966	1	NUT
8	73109986	1	BRACKET

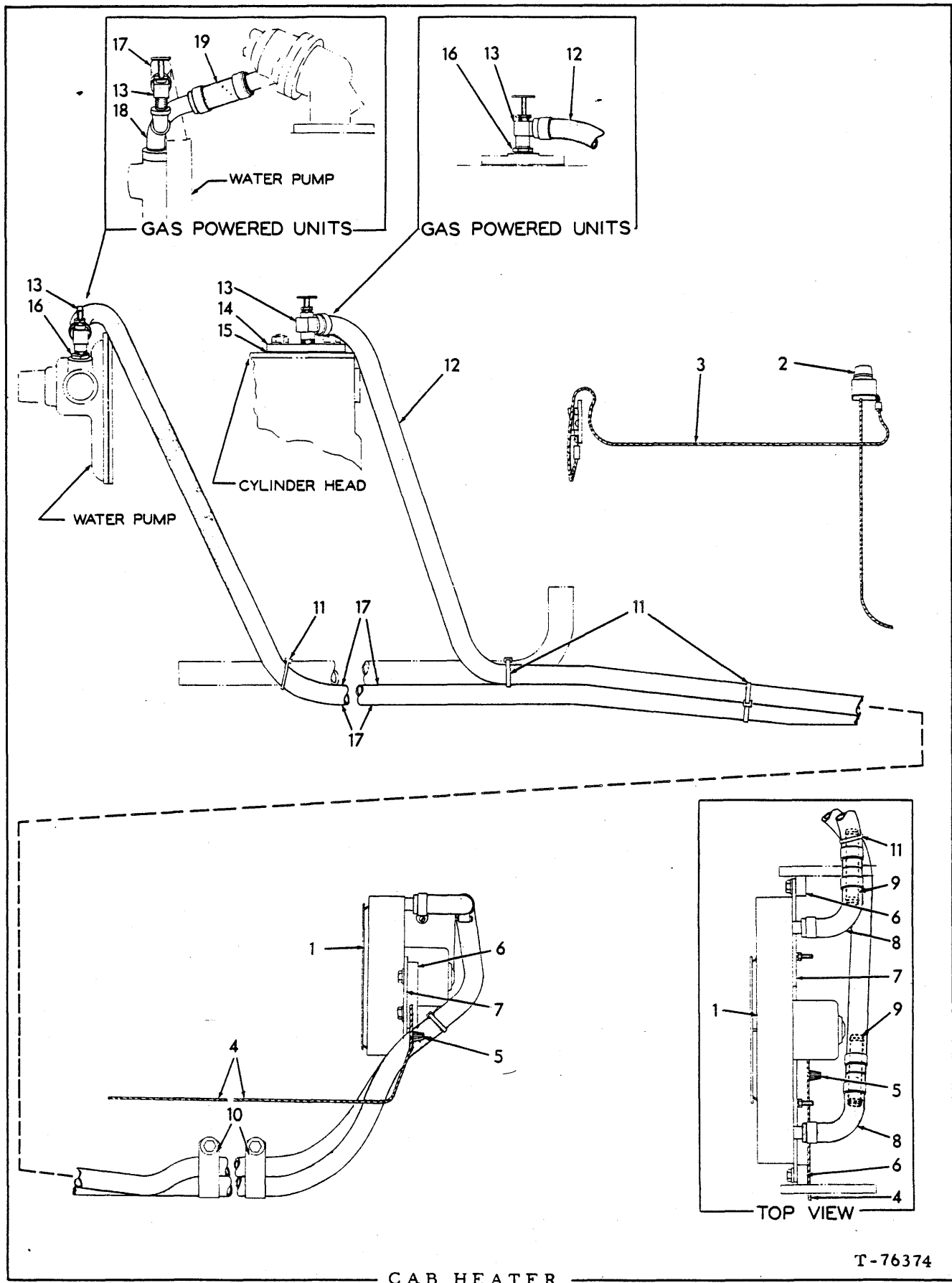


TOOLS

T-1524

USAGE: Special equipment

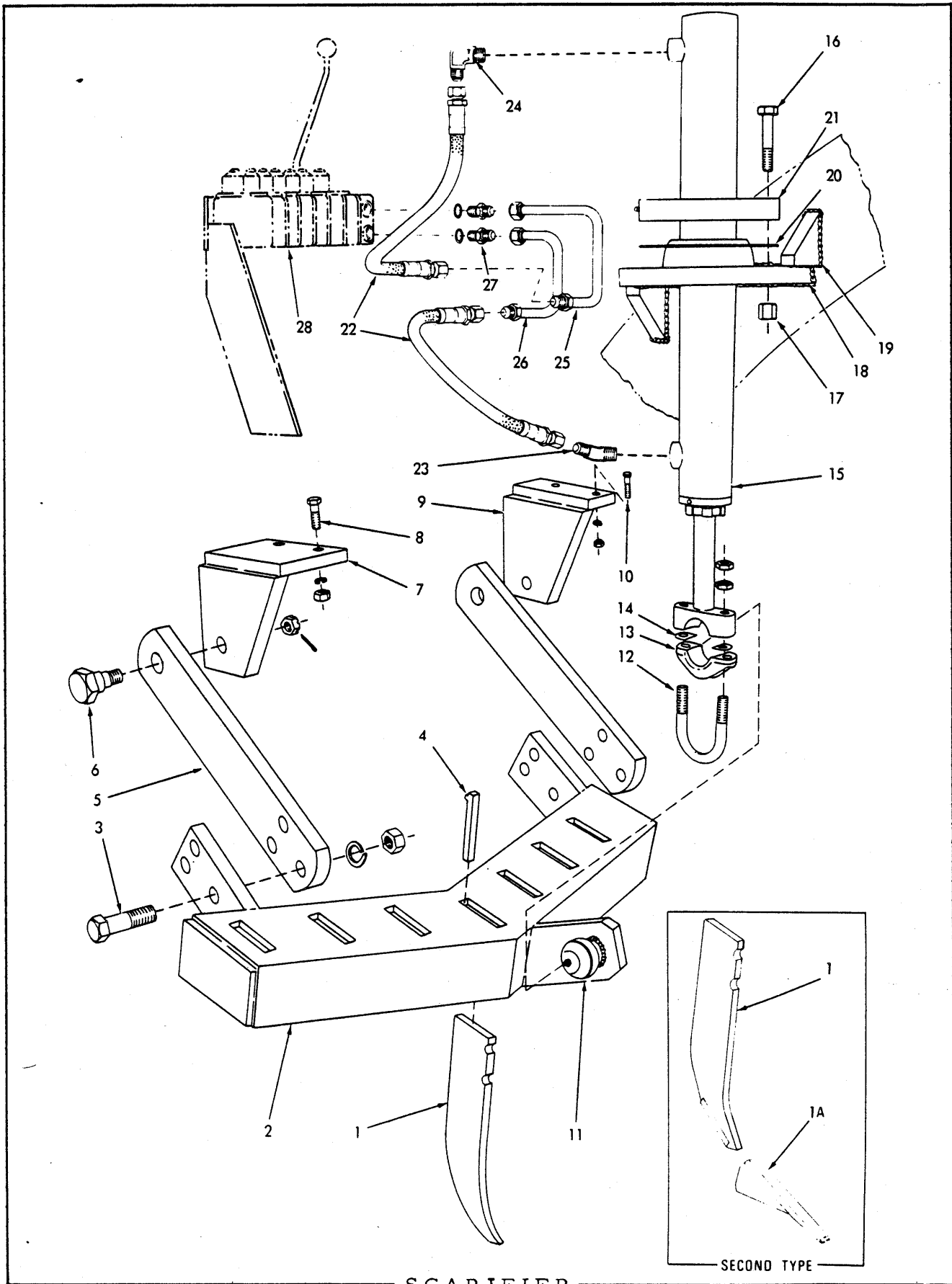
ITEM	PART NO.	QTY.	DESCRIPTION	
1	70073735	1	GUN, grease (Serviced only as a unit)	
2	70207466	1	WRENCH, spark plug	} Not for Diesel powered units
3	70207467	1	HANDLE, spark plug wrench	
4	70603723	1	WRENCH, socket, rim nut	
5	70604048	1	HANDLE, rim nut socket wrench	
6	70912554	1	WRENCH, structural, 1-1/16" opening	



CAB HEATER

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION	
1	70679096	1	HEATER ASSY. (Model U52-12V. Order parts from Perfection Division, Hupp Corp., 1135 Ivanhoe Road, Cleveland, Ohio 44110)	
	70915365	2	LOCKWASHER, #12	
	70908865	2	NUT, #12-24NC	
2	70679104	1	SWITCH, heater	
3	70693459	1	CABLE, switch to fuse block	
4	70679061	1	CABLE, switch to heater	
5	70679148	1	NUT, wire	
6	70653831	2	BLOCK, plate mounting (Requires welding to install)	
7	70679088	1	PLATE, heater mounting	
	70922262	4	CAPSCREW, 3/8"NC x 7/8"	
	70677006	4	WASHER, plain	
8	70679106	2	ELBOW, hose	
	70921911	4	CLAMP, hose	
9	70679105	2	TUBE, hose connecting	
10	70060525	2	CLIP, hose supporting	
	70922300	2	CAPSCREW, 3/8"NC x 3/4"	
	70910287	2	LOCKWASHER, 3/8"	
	70911115	2	WASHER, plain, SAE std., 3/8"	
11	70196765	4	STRAP, tie	
12	70679107	1	HOSE, heater to cylinder head	
	70921911	2	CLAMP, hose	
13	70605525	2	VALVE, water shut-off (angle type, 3/8"NPT)	
14	70639224	1	COVER, cylinder head water hole (Replaces std. COVER 74513529)	} Not used on Gas powered units
15	74513723	1	GASKET, cover	
16	70904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT	
17	70679108	1	HOSE, heater to water pump	
	70921911	2	CLAMP, hose	
18	70079860	1	PIPE, water by-pass (Replaces std. PIPE 70226315)	} Not used on Diesel powered units
	70901723	1	ELBOW, street, 90°, 3/8"NPT	
19	70226316	1	HOSE, water by-pass (Replaces std. HOSE 70227018)	
	70921911	2	CLAMP, hose	



SCARIFIER

(Revised June 1977)

SCARIFIER

USAGE: Special Equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70601160	7	TOOTH (Not used on Grader unit #01886, 01901, 01908, 01909 and 01912 thru 01914)
	70685435	7	SHANK ASSY. (Includes item 1A)(Grader unit #01886, 01901, 01908, 01909 and 01912 thru 01914 only)
1A	70685436	7	POINT (Requires welding)(Grader unit #01886, 01901, 01908, 01909 and 01912 thru 01914 only)
2	70067306	1	FRAME (Includes item 11)
	70914465	1	FITTING, lubricating, straight, 1/8" NPT
3	70925431	4	CAPSCREW, 1" NF x 3-1/4"
	70914728	4	LOCKWASHER, 1"
	70912908	4	NUT, 1" NF
4	70603247	7	KEY, tooth retaining
5	70067460	2	BAR, frame pivot
6	70064851	2	PIN, frame pivot
	70902277	2	NUT, slotted, 1" NC
	70900812	2	PIN, cotter, 3/16" x 1-3/4"
7	70067301	1	BRACKET, frame pivot, right
8	70922544	2	CAPSCREW, 3/4" NC x 2-3/4"
	70914726	2	LOCKWASHER, 3/4"
	70910923	2	NUT, 3/4" NC
9	70067302	1	BRACKET, frame pivot, left
10	70922544	2	CAPSCREW, 3/4" NC x 2-3/4"
	70914726	2	LOCKWASHER, 3/4"
	70910923	2	NUT, 3/4" NF
11	70643997	1	BALL (Requires welding to scarifier frame)
12	70605665	1	U-BOLT, ball cap
	70911049	4	NUT, jam, 5/8" NC
13	70053986	1	CAP, ball
14	70053992	8	SHIM, ball cap (1/32" thick. Use as required)
15	-----	1	CYLINDER ASSY. (See pages 170B and 171)
16	70927659	4	CAPSCREW, 5/8" NF x 3-1/4"
17	70072366	4	NUT, high, 5/8" NF
18	70620205	1	PLATE, cylinder mounting (Welded to frame)
19	70620206	2	GUSSET, mounting plate (Welded to frame)
20	70067297	8	SHIM, cylinder pivot cap (1/32" thick) Use as
	70643627	4	SHIM, cylinder pivot cap (.020" thick) required
21	70067321	1	CAP, cylinder pivot
	70915275	1	FITTING, lubricating, 65°, 1/8" NPT
22	70649639	2	HOSE, valve to cylinder (See HOSE PARTS)
23	70921038	1	ELBOW, flare type, 45°, 1/2" tube, 1/2" NPT male (First type cylinder)
	70922507	1	ELBOW, 45°, adjustable, 1/2" tube, 3/4" NF ma (Includes washer, nut and O-RING)(Second type cylinder)
24	70919195	1	ELBOW, flare type, 90°, 1/2" tube, 1/2" NPT male (First type cylinder)
	70921402	1	ELBOW, 37°, adjustable, 1/2" tube, 3/4" NF (Includes washer, nut and O-RING)(Second type cylinder)
	70921349	2	O-RING

(Continued)

(Revised January 1979)

SCARIFIER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
25	70661837	1	TUBE, valve to cylinder (upper)
	70921409	1	CONNECTOR, flare type, 1/2" tube, 3/8" NF male end (Includes O-RING)
	70921349	1	O-RING
26	70661836	1	TUBE, valve to cylinder (lower)
27	77108993	1	CONNECTOR, restricted (Includes O-RING)
	70921349	1	O-RING, connector
28	-----	1	VALVE (See page 136)

(Revised June 1977)

VANDALISM PREVENTION PARTS

USAGE: Special Equipment

* Diesel-powered units
 ** Gasoline-powered units

ITEM	PART NO.	QTY.	DESCRIPTION	
		* **		
1	70677941	1 1	△ GUARD, instrument panel	
2	70659203	1 1	LATCH, park guard (Graders prior to unit #01746)	Not used on units equipped with Cab
	70922300	1 1	CAPSCREW, 3/8"NC x 3/4"	
	70697300	1 1	STRIP (Grader unit #01746 and up)	
	70917453	1 1	SCREW, 1/4"NC x 1-1/2"	
	70928190	1 1	WASHER	
	70918470	1 1	NUT, wing, 1/4"NC	
3	70677797	1 1	△ ANGLE	
4	70677776	1 1	COVER, hour meter	
5	70660380	1 -	CLAMP, engine oil filler tube	
	70660381	- 1	CLAMP, engine oil breather tube	
	70921382	1 1	CAPSCREW, 1/4"NC x 1-1/2"	
	70911114	2 2	WASHER, plain, SAE std., 1/4"	
	70911024	1 1	NUT, 1/4"NC	
6	70659512	2 -	ANGLE, engine oil filler tube	
	70660405	- 2	ANGLE, engine oil breather tube	
	70924838	2 2	RIVET, drive, 5/16" x 1-3/16" (plated)	
7	70659486	- 1	ANGLE, engine oil filler closure	
	70924838	- 1	RIVET, drive, 5/16" x 1-3/16" (plated)	
8	70659423	- 1	ANGLE, engine oil filler closure	
	70924838	- 1	RIVET, drive, 5/16" x 1-3/16" (plated)	
9	70659537	- 1	ANGLE, engine oil filler closure	
10	70660377	1 1	CHAIN, retaining, engine oil dipstick	
	70922262	1 -	CAPSCREW, 3/8"NC x 7/8"	
	70911115	1 -	WASHER, plain, SAE std., 3/8"	
	70927373	- 1	CAPSCREW, 5/16"NC x 7/8"	
	70901165	- 1	WASHER, plain, U.S. std., 5/16"	
11	70677913	1 1	CLAMP, hydraulic oil filler tube	
	70921382	1 1	CAPSCREW, 1/4"NC x 1-1/2"	
	70911114	2 2	WASHER, plain, SAE std., 1/4"	
	70911024	1 1	NUT, 1/4"NC	
12	70677799	1 1	LATCH, hydraulic oil filler tube	
	70924838	1 1	RIVET, drive, 5/16" x 1-3/16" (plated)	
13	70677899	1 1	COVER, radiator cap	
	70924838	1 1	RIVET, drive, 5/16" x 1-3/16" (plated)	
	70910335	2 2	WASHER, plain, U.S. std., 5/16"	
14	70656763	3 3	△ LUG, radiator cap cover	
15	70677982	1 1	CAP, fuel tank (Includes keys)	
16	70928052	- -	PADLOCK (Use as required)(Not illustrated)	

△ Requires welding to install

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