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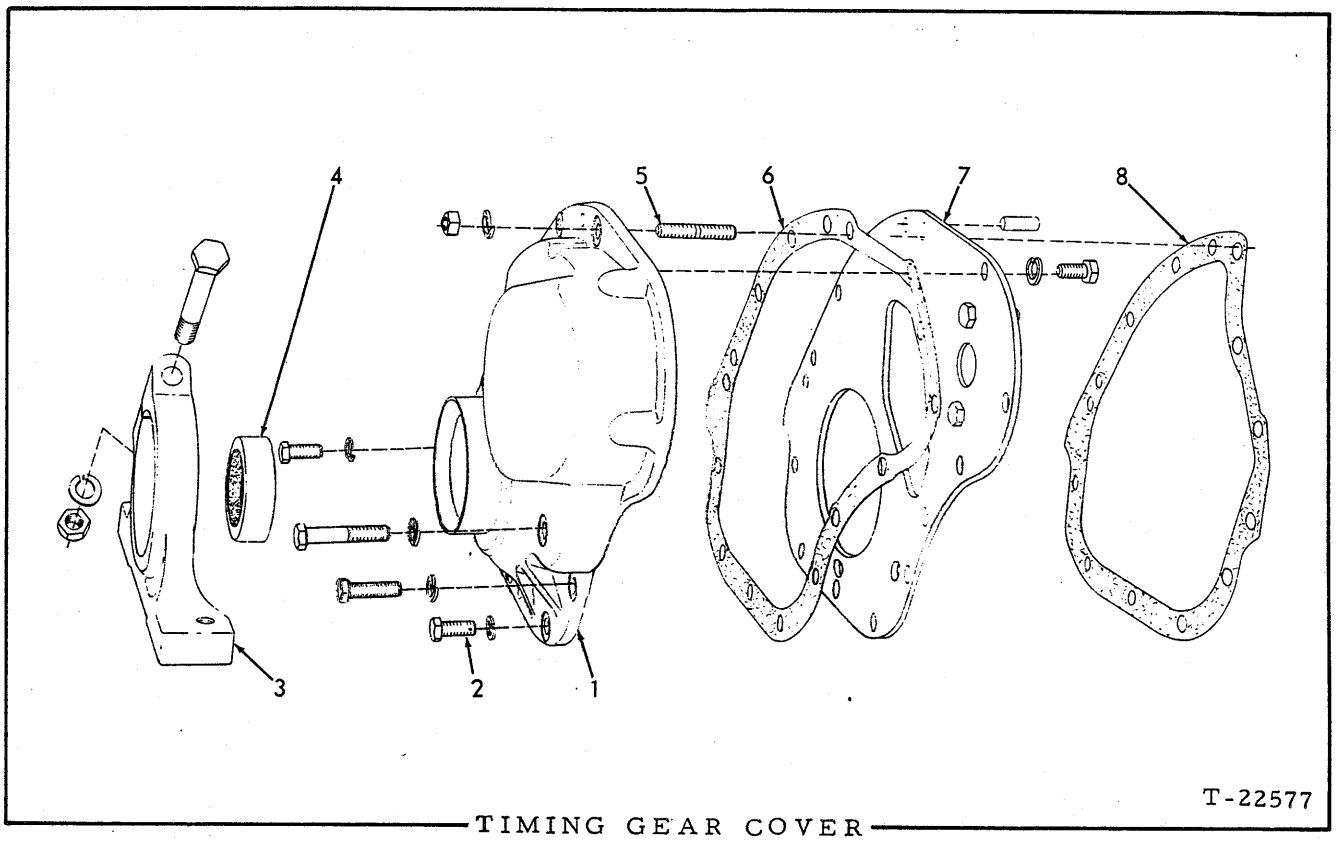


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PACKAGED PARTS

PACKAGE NO.	DESCRIPTION
74514580	GASKET KIT, cylinder head (Graders #2573 and up)(Continued)
	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 ASSEMBLY, cylinder head
74514604	PISTON AND SLEEVE KIT (Same as 74514606 except has .020" thicker top flange on cylinder sleeve)(Graders prior to #1924)
	2 74500301 RING, packing, cylinder sleeve
	1 74502861 PIN, piston
	1 74512112 RING SET, piston
	1 74512764 PISTON
	1 74512791 SLEEVE, cylinder
	2 74514586 RETAINER, piston pin
74514606	PISTON AND SLEEVE KIT (Graders prior to #1924)
	2 74500301 RING, packing, cylinder sleeve
	1 74502861 PIN, piston
	1 74512112 RING SET, piston
	1 74512764 PISTON
	1 74512774 SLEEVE, cylinder
	2 74514586 RETAINER, piston pin
74515044	PISTON AND SLEEVE KIT (Graders #1924 and up)
	1 74507710 PIN, piston
	1 74510817 SLEEVE, cylinder
	1 74513346 PISTON
	2 74514586 RETAINER, piston pin
	2 74514615 RING, packing, cylinder sleeve
74515045	PISTON AND SLEEVE KIT (Same as 74515044 except has .020" thicker top flange on cylinder sleeve)(Graders #1924 and up)
	1 74507710 PIN, piston
	1 74508465 SLEEVE, cylinder
	1 74513346 PISTON
	2 74514586 RETAINER, piston pin
	2 74514615 RING, packing, cylinder sleeve
	1 74515041 RING SET, piston
------	REPAIR KIT, brake master cylinder (See page 137)
------	SEAL KIT, power steering (See page 164)



TIMING GEAR COVER

USAGE: Graders serial No. 1924 thru 2573

ITEM	PART NO.	QTY.	DESCRIPTION
1	74508499	1	COVER, timing gear
	70919224	3	CAPSCREW, 3/8"NC x 1-1/8"
	70916272	1	CAPSCREW, 3/8"NC x 1-1/4"
	70916274	1	CAPSCREW, 3/8"NC x 2-1/4"
2	74513383	4	CAPSCREW, Nylok, 3/8"NC x 1-1/8"
	70904206	9	LOCKWASHER, 3/8"
3	74506680	1	SUPPORT, engine
	70912195	1	CAPSCREW, 1/2"NF x 4"
	70904208	1	LOCKWASHER, 1/2"
	70910195	1	NUT, 1/2"NF
4	74513621	1	SEAL, oil, crankshaft, front
5	74514034	1	STUD, timing gear cover
	70904206	1	LOCKWASHER, 3/8"
	70910123	1	NUT, 3/8"NF
6	74507505	1	□GASKET, gear cover
7	74507500	1	PLATE, cylinder block, front
	70917539	2	PIN, dowel, 3/8" diam. x 1" long
	70915408	2	CAPSCREW, 3/8"NC x 3/4"
	70916269	3	CAPSCREW, 3/8"NC x 7/8"
	70904206	5	LOCKWASHER, 3/8"
8	74508186	1	□GASKET, cylinder block front plate

VALVE MECHANISM AND CAMSHAFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	74501177	12	BALL, rocker arm } Engines prior to #17288
7	74501211	12	WICK, oiling, rocker arm } Engines prior to #17288
8	74514032	6	BRACKET, rocker shaft (Graders prior to #1924)
	74514031	6	BRACKET, rocker shaft (Graders #1924 and up)
	70919227	4	CAPSCREW, 3/8"NC x 3-1/4"
	70900817	6	WASHER, plain, U.S. std., 3/8"
8A	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	74500313	1	RING, snap, gear retaining (Engines prior to #D-15764)
14	74502467	1	PLATE, thrust
	74502468	2	CAPSCREW
	70907863	2	LOCKWASHER, int-tooth, 7/16"
15	74516085	1	CAMSHAFT
16	74506697	1	LINE ASSEMBLY, oil, crankcase to cylinder head (Includes NUTS indented below) (Graders prior to #1924)
	74510833	1	LINE ASSEMBLY, oil, crankcase to cylinder head (Includes NUTS indented below) (Graders #1924 and up)
	70913536	2	NUT, inverted flare, 1/4" tube
	70913039	2	ELBOW, inverted flare, 90°, 1/4" tube, 1/8"NPT male
17	74502408	1	LINE ASSEMBLY, 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

FUEL TANK (Continued)

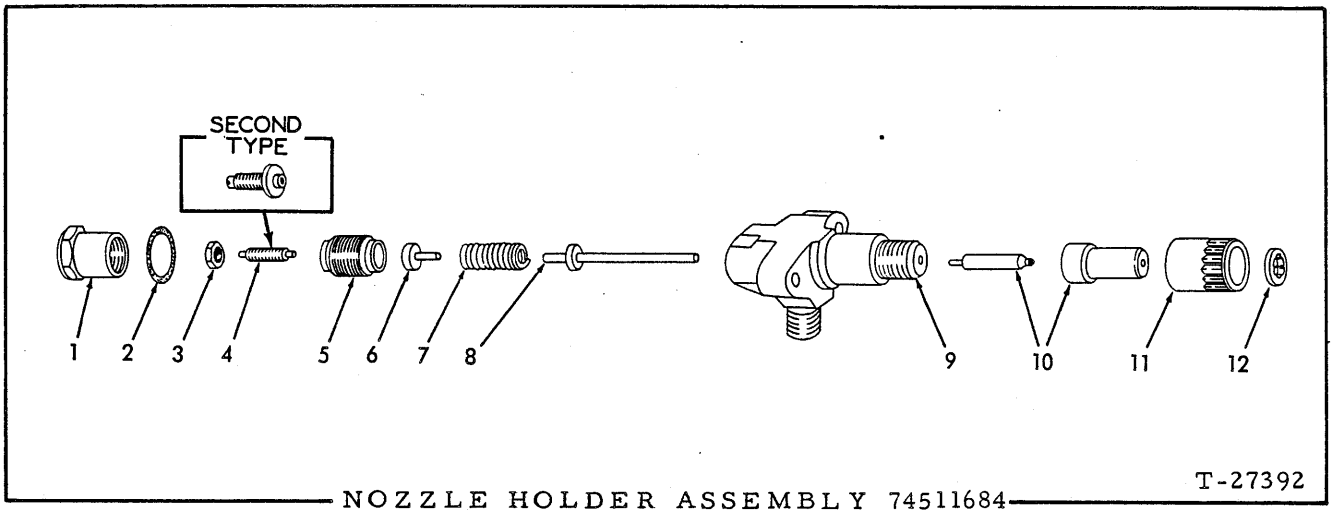
ITEM	PART NO.	QUANTITY *	**	***	DESCRIPTION
2	70206622	1	1	1	CAP ASSEMBLY, fuel tank (Includes item 3)
3	70208065	1	1	1	GASKET, fuel tank cap
3A	70651081	-	1	-	STRAINER (Effective with grader #3556)
4	70066503	2	2	2	BLOCK, cushion
5	70073467	2	2	2	STRAP, tank retaining
	70916381	2	2	2	CAPSCREW, 3/8"NF x 3/4"
	70904206	2	2	2	LOCKWASHER, 3/8"
	70911041	2	2	2	NUT, 3/8"NF
	70916272	2	2	2	CAPSCREW, 3/8"NC x 2-1/4"
	70900405	2	2	2	NUT, square, 3/8"NC
6	70066502	2	2	2	CUSHION, fuel tank (webbing)
7	70073473	2	2	2	BRACKET, tank mounting
	70920619	4	4	4	CAPSCREW, 3/8"NF x 1-1/8"
	70904206	4	4	4	LOCKWASHER, 3/8"
	70911041	4	4	4	NUT, 3/8"NF
8	70083118	1	-	-	TUBE, fuel return, injection nozzle
	70910240	1	-	-	ELBOW, compression, 1/4" tube, 1/8"NPT male (Includes NUT and SLEEVE listed below)
	70911437	2	-	-	NUT, compression, 1/4" tube
	70911435	2	-	-	SLEEVE, compression, 1/4" tube (brass)
8	70091974	-	1	-	TUBE, fuel return, injection nozzle (Used prior to grader #1924)
	70918386	-	1	-	CONNECTOR, Sealastic, 1/4" tube, 1/8"NPT male
	70918383	-	1	-	NUT, Sealastic, 1/4" tube
	70917029	-	1	-	RING, Sealastic, 1/4" tube (Rubber. Includes ferrule)
	70911437	-	1	-	NUT, compression, 1/4" tube
	70911435	-	1	-	SLEEVE, compression, 1/4" tube (brass)
9	70096045	-	1	-	TUBE ASSEMBLY, fuel return, injection nozzle (Includes NUT 70919141)(Effective with grader #1924)
9	70097865	-	-	1	TUBE ASSEMBLY, fuel return, injection nozzle (Includes NUT 70919141)
	70919141	-	1	1	NUT, flare type, 1/4" tube
	70919140	-	1	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
	70917809	-	1	1	NUT, Imperial, 1/4" tube
	70917806	-	1	1	SLEEVE, Imperial, 1/4" tube (rubber)
10	70099433	-	1	1	COCK, fuel shut-off (1/4"NPT male and female)
	70917518	-	1	-	NIPPLE, pipe, 1/4"NPT x 1-1/8"
	70904273	-	-	1	NIPPLE, pipe, 1/8"NPT x 1"
	70901677	-	1	-	ELBOW, pipe, 90°, 1/4"NPT
	70910221	-	-	1	ELBOW, pipe reducing, 90°, 1/4"NPT to 1/8"NPT
	70901825	-	1	-	BUSHING, reducing, 1/4"NPT to 1/8"NPT

HEAVY-DUTY FUEL FILTER

USAGE: Special equipment. Applicable to graders serial No. 1924 and up only.

* Units with "Walker" filter
** Units with "Briggs" filter

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	1	-	FILTER ASSY. (Consists of items 2 thru 10)(Order 70654673)
	70654673	-	1	FILTER ASSY. (Consists of items 11 thru 23)
	70916197	4	4	CAPSCREW, 7/16"NC x 1-1/4"
	70912298	4	4	WASHER, plain, SAE std., 7/16"
	70904207	4	4	LOCKWASHER, 7/16"
	70911027	4	4	NUT, 7/16"NC
2	70098433	1	-	BOLT, filter cover
3	70098435	1	-	GASKET, filter cover bolt
4	70098436	1	-	COVER, filter
5	70098437	1	-	GASKET, filter cover
6	70098438	1	-	SPRING, filter element hold-down
7	70098441	1	-	ELEMENT KIT, filter (Includes item 5)
8	70098439	1	-	SHELL, filter
9	70098434	2	-	BRACKET, filter mounting
10	70916389	2	-	CAPSCREW, 3/8"NF x 3-1/4"
	70904206	2	-	LOCKWASHER, 3/8"
	70911041	2	-	NUT, 3/8"NF
11	70647432	-	1	CAPSCREW, cover retaining
12	70647436	-	1	WASHER, cover retaining capscrew
13	70647446	-	1	COVER, tank
14	70647448	-	1	GASKET, tank cover
15	70647439	-	1	SPRING, element retaining
16	70647449	-	1	WASHER, element retaining spring (steel)
17	70647450	-	1	WASHER, sealing, cover retaining capscrew (cork)
18	70647453	-	1	PLATE, element retaining
19	70647455	-	1	NUT
20	70647513	-	1	ELEMENT KIT (Includes item 14)
21	70654719	-	1	TANK
22	70647554	-	4	STRAP, mounting
	70910948	-	2	CAPSCREW, 3/8"NC x 2"
	70919015	-	2	CAPSCREW, 3/8"NC x 3-1/2"
	70904206	-	4	LOCKWASHER, 3/8"
	70911026	-	4	NUT, 3/8"NC
23	70654717	-	2	PIPE, spacing, mounting strap
24	70622263	1	1	PLATE, mounting (Requires welding to frame)
25	70620881	1	1	TUBE ASSY., tank to filter (Includes nuts)
	70919062	1	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	70919172	1	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
26	70620879	1	1	TUBE ASSY., filter outlet (Includes nuts)
	70919172	1	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
	70919135	1	1	ELBOW, flare type, 90°, 1/4"NPT male
27	70201671	1	1	COCK ASSY., filter drain (Includes item 28)
28	70209359	1	1	STEM, filter drain cock



NOZZLE HOLDER ASSEMBLY 74511684

USAGE: See page 56

ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: Quantities indicated are for one (1) Holder Assembly only
1	74049298	1	CAP, nozzle holder
2	74049282	1	GASKET, nozzle holder cap
3	74050523	1	NUT, nozzle holder screw
4	-------	1	SCREW, nozzle holder (First type. Order SCREW 74051839)
	74051839	1	SCREW, nozzle holder (Second type)
5	74050520	1	NUT, nozzle holder spring
6	-------	1	SEAT, nozzle holder spring (Early units only. Order item 4)
7	74049287	1	SPRING, nozzle holder
8	74049288	1	SPINDLE, nozzle holder
9	-------	1	BODY, nozzle holder (Not serviced separately)
10	74511201	1	NOZZLE ASSEMBLY (Consists of 1 body, 1 valve and item 12)
11	74049289	1	NUT, nozzle retaining
12	74511204	1	□GASKET, nozzle holder to cylinder head

AIR CLEANER (Oil-bath)

USAGE: Graders prior to serial No. 1996 except when equipped with "Allis-Chalmers" TL-D Rear Loader

* Graders prior to serial No. 1777
** Graders serial No. 1777 thru 1995

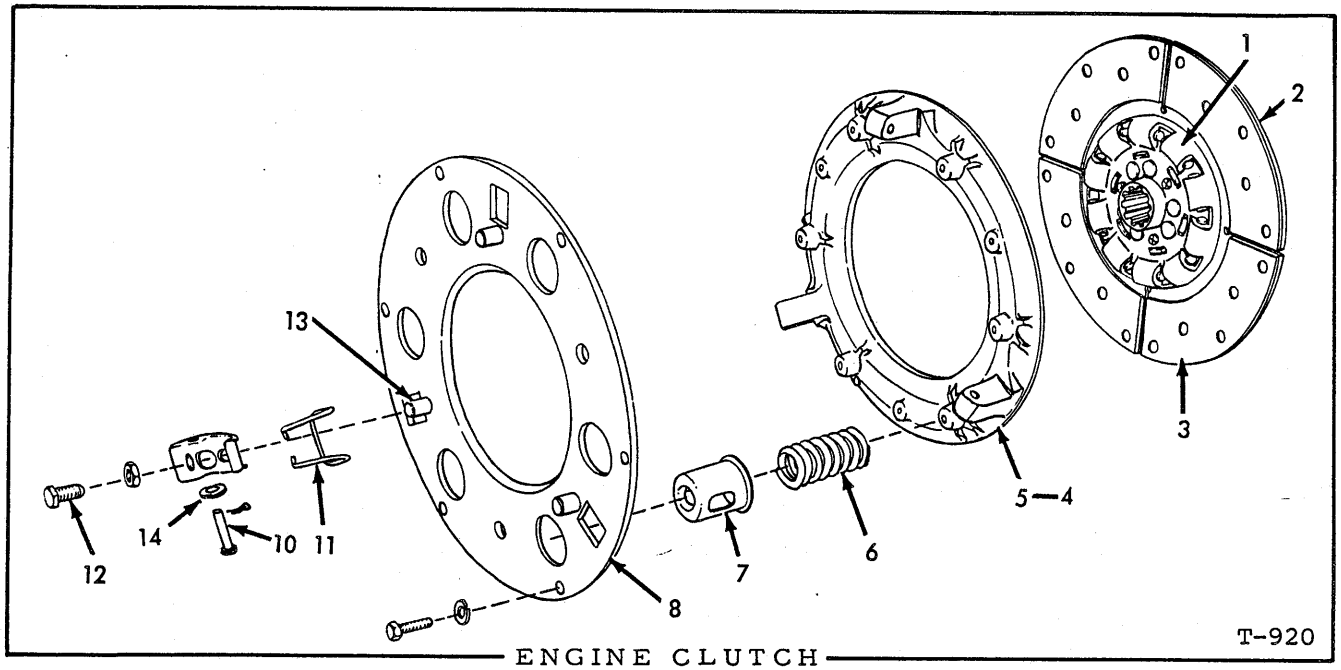
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	70080962	1	1	PRE-CLEANER ASSEMBLY, air (Consists of items 2 thru 4)
2	70083522	1	1	BASE ASSEMBLY, air pre-cleaner (Includes screw and nut)
3	70083521	1	1	BODY ASSEMBLY, air pre-cleaner (Includes plastic shell)
4	70083520	1	1	CAP ASSEMBLY, air pre-cleaner (Includes wing nut)
5	------	1	1	CLEANER ASSEMBLY, air (Includes items 6 thru 8) (Order 1 CLEANER ASSY. 70097196, 1 PLATE 70097833, 2 BRACKETS 70096618, 2 CAPSCREWS 70916273, 2 NUTS 70911026, 3 CAPSCREWS 70916271, 4 CAPSCREWS 70916270 and 6 LOCKWASHERS 70904206)
	70916381	4	4	CAPSCREW, 3/8"NF x 3/4"
	70904206	4	4	LOCKWASHER, 3/8"
6	70227044	1	1	GASKET, air cleaner oil cup
7	70227046	1	1	CUP, oil, air cleaner
8	70227045	1	1	BAIL ASSEMBLY, air cleaner oil cup (Includes roller)
9	70083304	1	-	BRACKET, air cleaner mounting
	70916269	4	-	CAPSCREW, 3/8"NC x 7/8"
	70904206	4	-	LOCKWASHER, 3/8"
	70911026	4	-	NUT, 3/8"NC
10	70093968	-	1	BRACKET, air cleaner mounting
	70915408	-	2	CAPSCREW, 3/8"NC x 3/4"
	70904206	-	2	LOCKWASHER, 3/8"
	70916268	-	1	CAPSCREW, 3/8"NC x 5/8"
11	70090073	1	1	HOSE, air cleaner tube
12	70921913	2	2	CLAMP, air cleaner tube hose
13	70083307	1	-	TUBE, air cleaner to engine
13	70091907	-	1	TUBE, air cleaner to engine
	70916271	4	4	CAPSCREW, 3/8"NC x 1"
	70904206	4	4	LOCKWASHER, 3/8"
	70901652	1	1	PLUG, pipe, 1/4"NPT (Used only when Primer is replaced by Optional Air Heater)
14	70226925	1	1	GASKET, air cleaner tube
15	74507516	1	1	HOUSING, air inlet (See ENGINE AIR HEATER for optional housing)
	70916271	2	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	2	LOCKWASHER, 3/8"
16	74513809	1	1	□GASKET, air inlet housing
17	74504152	1	1	GASKET, inlet housing plug
18	74506783	1	1	PLUG, air inlet housing
19	74504540	1	1	CHAIN ASSEMBLY, inlet housing plug (Includes retaining ring)
20	-------	1	1	TRANSFER (See PAINTING AND MARKING)

AIR CLEANER (Dry-type)(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
4	70639050	1	-	ELEMENT, air cleaner } Each includes item 6
	70243163	-	1	ELEMENT, air cleaner } Each includes item 6
5	70239517	1	1	NUT ASSEMBLY, element retaining (Includes item 6)
6	------	1	1	GASKET, element retaining nut
7	70640658	1	1	BAFFLE, air
8	70640657	1	1	CLAMP ASSEMBLY, air cleaner cup (Includes screw)
9	70640659	1	-	CUP, air cleaner
	70662255	-	1	CUP, air cleaner
10	73042943	-	1	VALVE, unloading
11	70622619	2	2	BAND ASSEMBLY, air cleaner mounting (Includes screw and nut)
	70916270	4	4	CAPSCREW, 3/8"NC x 1/2"
	70904206	4	4	LOCKWASHER, 3/8"
12	70235371	1	1	HOSE, upper
	70921913	2	2	CLAMP, hose, 1-13/16" to 2-3/4" diam.
13	70640725	1	1	TUBE, air inlet
	70901651	1	1	PLUG, pipe, 1/8"NPT (air restriction indicator connection)
	70901652	1	1	PLUG, pipe, 1/4"NPT (Primer connection)
14	70633034	1	1	HOSE, lower
	70921913	2	2	CLAMP, hose, 1-13/16" to 2-3/4" diam.
15	74513924	1	1	HOUSING, air inlet
	70910014	1	1	PLUG, expansion, 1-1/2" diam.
	70916271	2	2	CAPSCREW, 3/8"NC x 1"
	70904206	2	2	LOCKWASHER, 3/8"
16	74513809	1	1	□GASKET, air inlet housing
17	70631564	1	1	INDICATOR ASSEMBLY, air restriction (Serviced only as a unit) (Special equipment)
18	70622447	1	1	FITTING, connector (Includes filter)
19	------	-	-	TRANSFER, instruction (See PAINTING AND MARKING)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
4	70096026	1	1	PIPE, water inlet
5	70226893	1	1	HOSE, upper front (2-1/4" long)(Used prior to grader #2573)
	70606384	1	1	HOSE, upper front (4" long)(Effective with grader #2573)
	70921913	2	2	CLAMP, hose, 1-13/16" to 2-3/4"
6	70226307	1	1	HOSE, lower (8-1/8" long)(Used prior to grader #2573)
	70921912	2	2	CLAMP, hose, 1-1/16" to 2" diam.
7	------	1	1	HOSE, water outlet (2-1/2" long)(Order item 10)
	70921912	2	2	CLAMP, hose, 1-1/16" to 2" diam.
8	70643170	1	1	TUBE, water outlet
9	70237759	1	1	HOSE, water outlet (molded elbow)
	70921913	2	2	CLAMP, hose, 1-13/16" to 2-3/4" diam.
10	70643036	1	1	HOSE ASSEMBLY, lower (Includes wire insert)(Effective with grader #3070)
	70921913	1	1	CLAMP, hose, 1-13/16" to 2-3/4" diam. (upper)
	70921912	1	1	CLAMP, hose, 1-1/16" to 2" diam. (lower)
11	70201671	1	1	COCK, drain (3/8"NPT. Includes item 12)(Used prior to grader #1936)
	70912319	-	1	COCK, drain (1/4"NPT)(Effective with grader #1936)
12	70209359	1	1	STEM, drain cock (For COCK 70201671 only)
				NOTE: Following items are special equipment
13	70086706	1	-	SHUTTER ASSEMBLY, radiator (Includes items 14 thru 16)
	70094214	-	1	SHUTTER ASSEMBLY, radiator (Includes items 14 thru 16)
14	70212382	1	1	SPRING, shutter control
15	70212786	1	1	ROD, shutter control
16	70213286	1	-	CRANK, shutter control (3" long)
	70094874	-	1	CRANK, shutter control (8" long)
17	------	-	-	CAPSCREW (See RADIATOR SHELL AND HOOD)

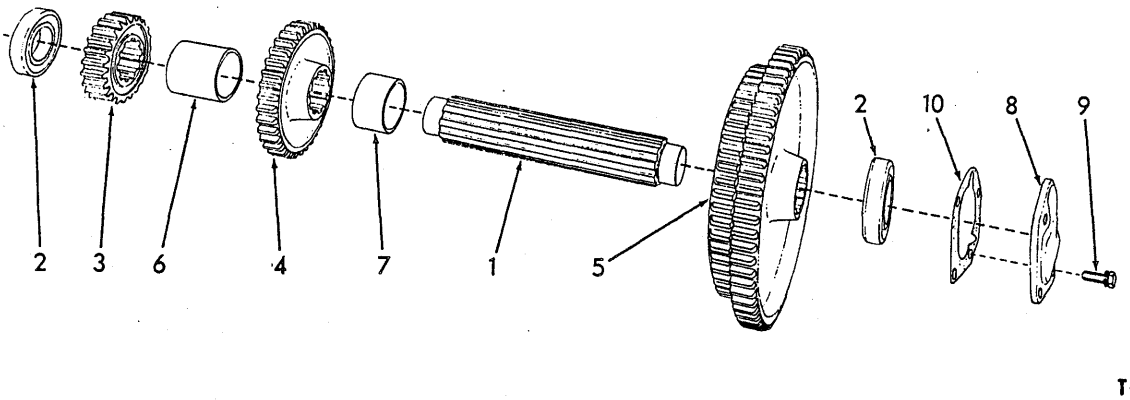
Used on graders #2573 thru #3069



ENGINE CLUTCH

USAGE: Graders prior to serial No. 1890

ITEM	PART NO.	QTY.	DESCRIPTION
1	70226764	1	DISC ASSEMBLY, driven (Includes items 2 and 3. No other components are serviced)
2	------	4	FACING, disc (1/8" thick) (Order item 15)
	70911005	10	RIVET, tubular, brass, fl-hd., 3/16" x 5/16"
3	------	4	FACING, disc (5/32" thick) (Order item 15)
	70911005	10	RIVET, tubular, brass, fl-hd., 3/16" x 5/16"
4	70230506	1	PLATE ASSEMBLY, pressure (Consists of items 5 thru 14)
5	70208286	1	PLATE, pressure
6	70204843	6	SPRING, pressure plate
7	70204844	6	CUP, pressure plate spring
8	70208296	1	PLATE ASSEMBLY, back (Includes item 13)
	70915813	6	CAPSCREW, 5/16"NC x 7/8"
	70904205	6	LOCKWASHER, 5/16"
9	70208290	3	LEVER, release
10	70208292	3	PIN, release lever
	70904001	3	PIN, cotter, 3/32" x 1/2"
11	70208293	3	SPRING, release lever
12	70204846	3	SCREW, release lever adjusting
	70910329	3	NUT, jam, 3/8"NF
13	70208288	3	SEAT, release lever adjusting screw
14	70225656	3	WASHER, release lever pin
15	70226767	1	FACING SET (Consists of 8 facings, 24 rivets) (Not illustrated)



TRANSMISSION INTERMEDIATE SHAFT

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	70059930	1	SHAFT
2	70698633	2	BEARING, ball
3	70059928	1	GEAR (23 teeth)
4	70059962	1	GEAR (34 teeth)
5	70059957	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	70035439	4	*CAPSCREW, 3/8"NC x 1"
	70904206	4	*LOCKWASHER, 3/8"
10	70059956	1	GASKET, front bearing cap

*Not used with auxiliary Creeper Transmission.

TRANSMISSION BRAKE

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	70059945	1	BRACKET, mounting
2	70035061	4	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	4	LOCKWASHER, 1/2"
3	70059982	1	STUD (1/2" diam.)
	70904208	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 ASSEMBLY (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	70012992	8	CAPSCREW, 3/8"NF x 1-1/4"
	70904206	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	1	WASHER, plain, SAE std., 1/2"
	70904207	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"

WHEEL BRAKES

USAGE: Special Equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70083401	2	BRAKE ASSEMBLY, left wheels (See page 140 for parts)
	70918683	8	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	8	LOCKWASHER, 1/2"
2	70083402	2	BRAKE ASSEMBLY, right wheels (See page 140 for parts)
	70918683	8	CAPSCREW, 1/2"NC x 1-1/8"
	70904208	8	LOCKWASHER, 1/2"
3	70083600	2	TUBE ASSEMBLY, (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, (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, brake 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	70067005	1	CYLINDER ASSEMBLY, master (See page 137 for parts)
	70901651	1	PLUG, pipe, 1/8"NPT
	70916385	3	CAPSCREW, 3/8"NF x 2"
	70904206	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

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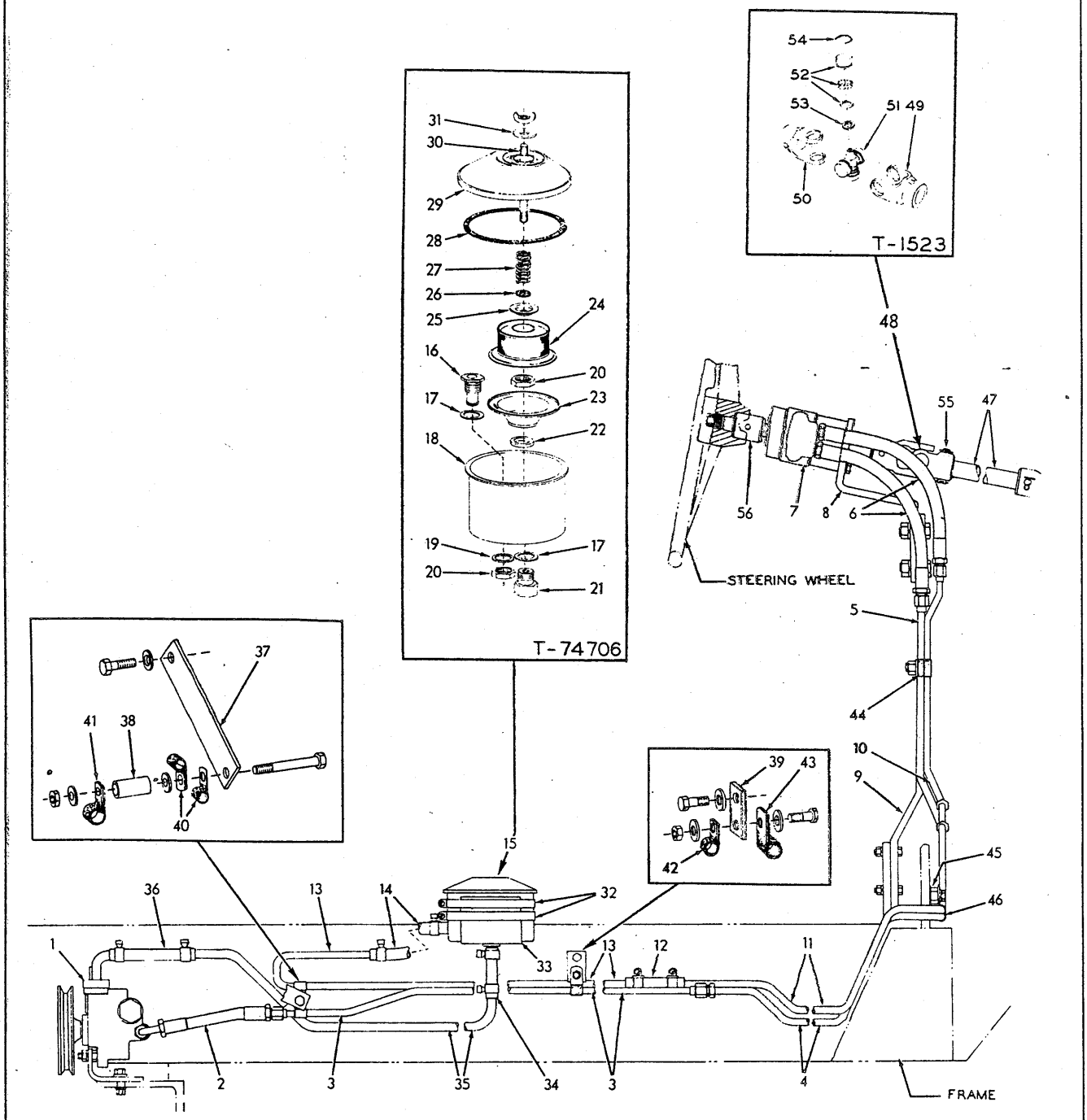


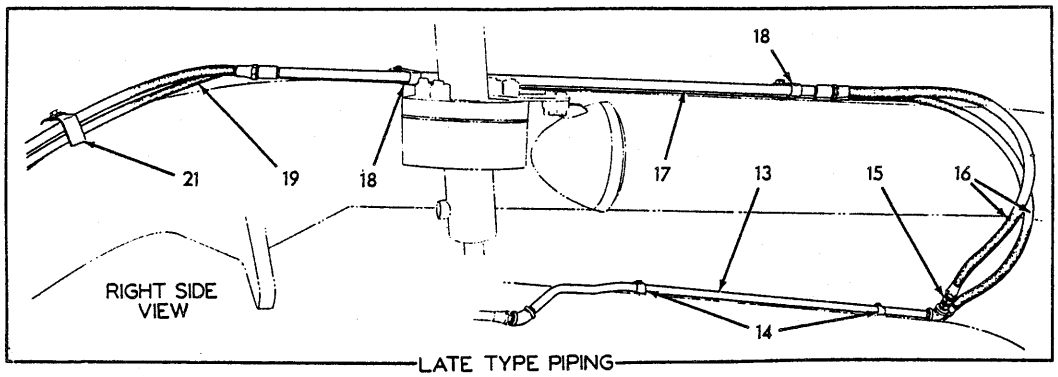
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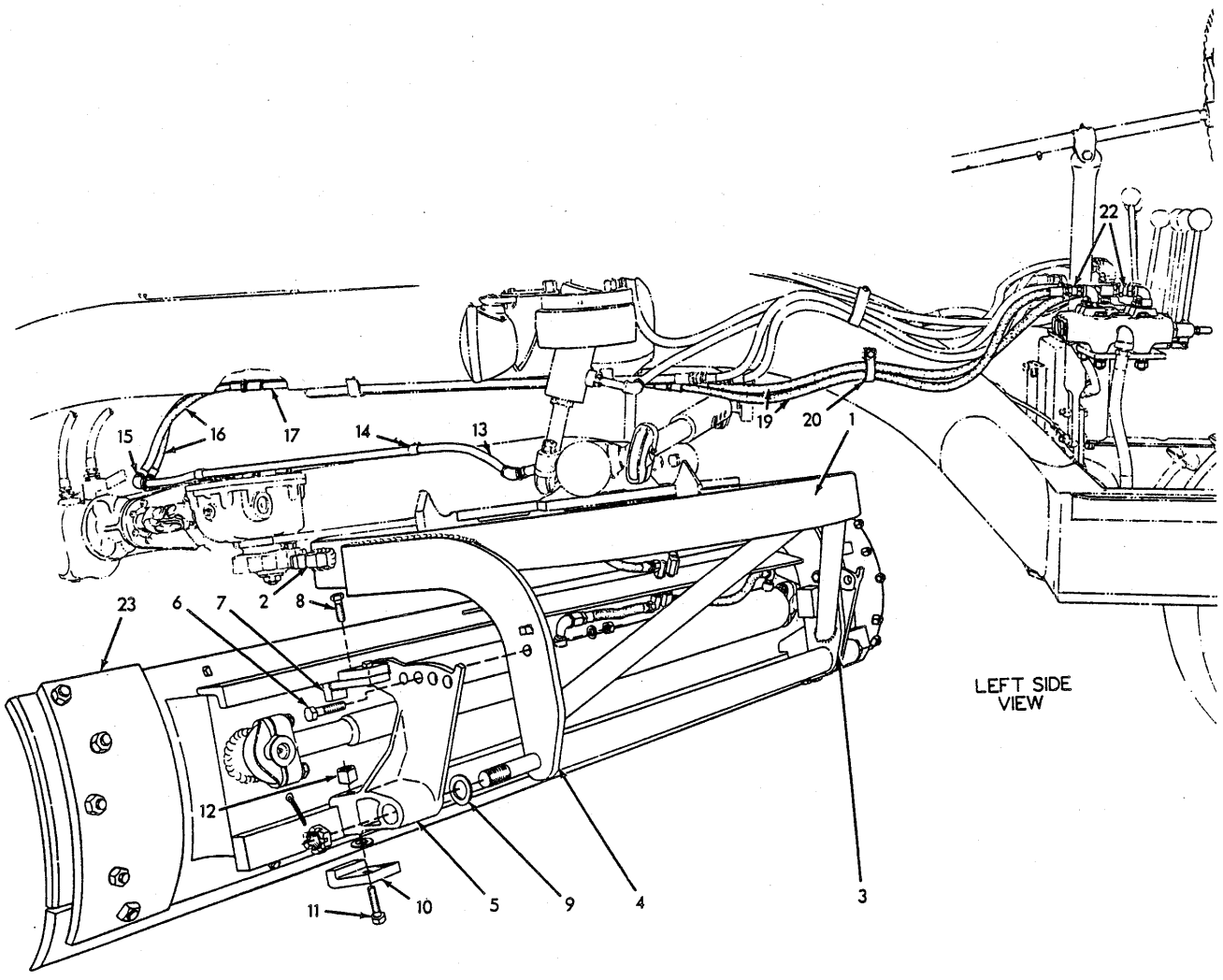
ITEM	PART NO.	QTY.	DESCRIPTION
19	70082174	1	CAPSCREW, right connecting link
	70911061	1	NUT, slotted, 1-1/4"NC
	70901344	1	PIN, cotter, 1/4" x 2"
20	70082152	1	ARM, steering (Replaces standard ARM 70069224)
	70925323	2	CAPSCREW, 3/4"NC x 1" (arm stop)
	70904369	2	LOCKWASHER, 3/4"
21	70604289	1	SHIELD, steering arm ball pin (neoprene)
22	70653877	1	CAP, steering arm ball pin, right
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
23	70604290	18	SHIM, ball pin cap (Use as req'd)
24	70653879	1	CAP, steering arm ball pin, left
25	70046419	4	CAPSCREW, ball pin cap (3/8"NF x 2")
	70904206	4	LOCKWASHER, 3/8"
	70911041	4	NUT, 3/8"NF
26	70097126	2	LINK, drag
	70911046	2	NUT, 7/8"NF
27	70602068	2	WASHER, spindle arm (plain)
	70912331	2	NUT, slotted, 3/4"NF
	70900807	2	PIN, cotter, 1/8" x 1-1/4"
28	70080862	2	SWIVEL ASSEMBLY, drag link (Each consists of 1 yoke, 1 swivel, 1 pin and items 29 and 30)
	70915019	2	FITTING, lubricating, 90°, 1/4"NF
29	70052662	2	SEAL, oil, drag link swivel
30	70080857	4	BEARING, needle, drag link swivel yoke
31	70082679	2	ARM, steering, front wheel 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
32	70082101	1	SPINDLE, left front wheel
	70082102	1	SPINDLE, right front wheel
	70911057	2	NUT, castle, 1"NF
	70900809	2	PIN, cotter, 1/8" x 1-3/4"
33	70078854	2	SHIM, needle bearing retainer (.005" thick. Use as req'd)
	70082108	16	SHIM, needle bearing retainer (.010" thick. Use as req'd)
34	70053243	2	SEAL, dust, spindle needle bearing
35	70604435	2	BEARING, needle, wheel spindle, lower
36	70082107	2	RETAINER, spindle needle bearing
	70914465	2	FITTING, lubricating, straight, 1/8"NPT
	70916311	6	CAPSCREW, 1/2"NC x 1-1/4"
	70904208	6	LOCKWASHER, 1/2"

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T-74706
T-1523
STEERING WHEEL
FRAME
T-74702

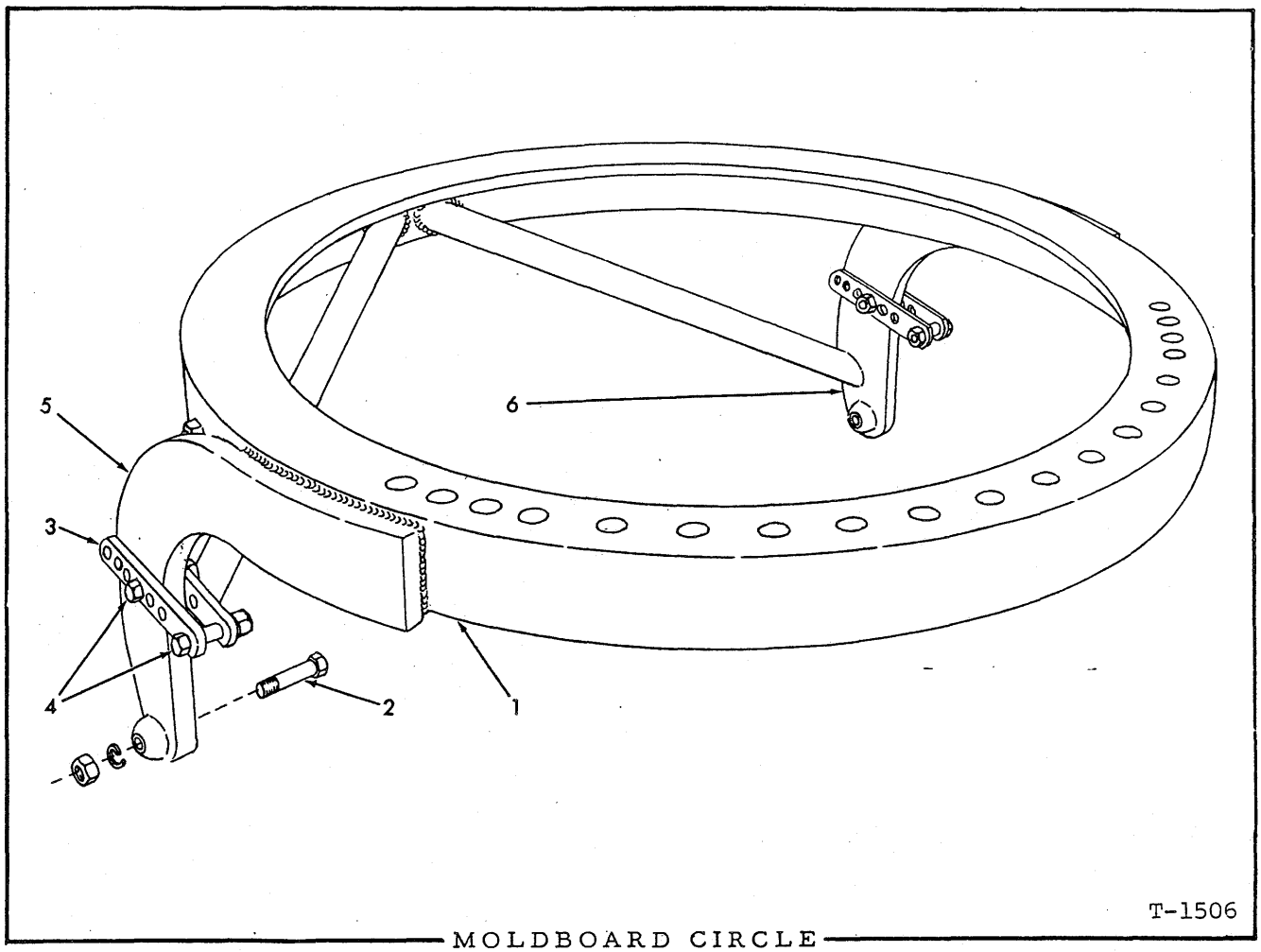


LATE TYPE PIPING



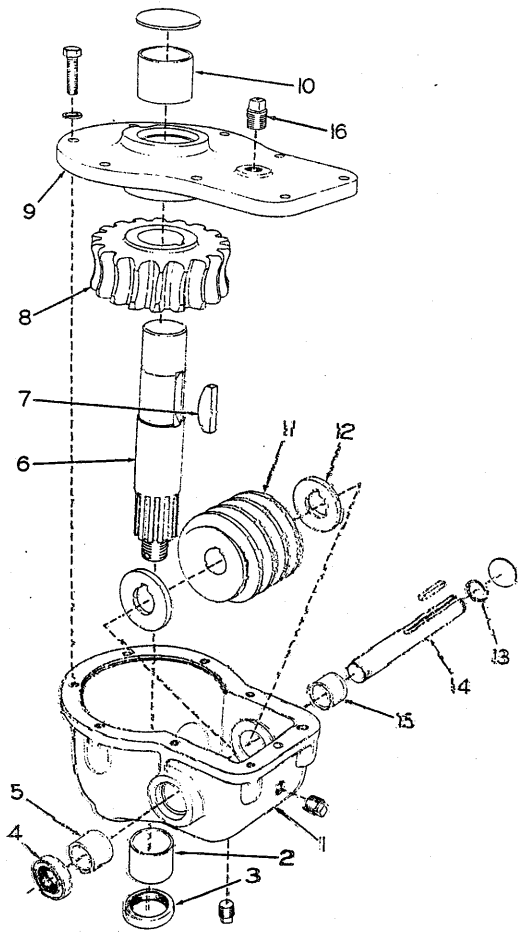
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SHIFTABLE MOLDBOARD (First Type)



MOLDBOARD CIRCLE

ITEM	PART NUMBER	QTY.	DESCRIPTION
1	70055502	1	CIRCLE (Includes items 5 and 6)(Also see POWER CIRCLE TURN and HYDRAULIC SHIFTABLE MOLDBOARD for special circles)
2	70012526	2	CAPSCREW, moldboard attaching (3/4"NF x 3-1/4")
	70904369	2	LOCKWASHER, 3/4"
	70911045	2	NUT, 3/4"NF
3	70055483	4	LINK, adjusting, moldboard pitch
4	70070285	4	CAPSCREW, 3/4"NF x 3"
	70904369	4	LOCKWASHER, 3/4"
	70911045	4	NUT, 3/4"NF
5	70082096	1	ARM, right } Require welding to Moldboard Circle
6	70656829	1	ARM, left }



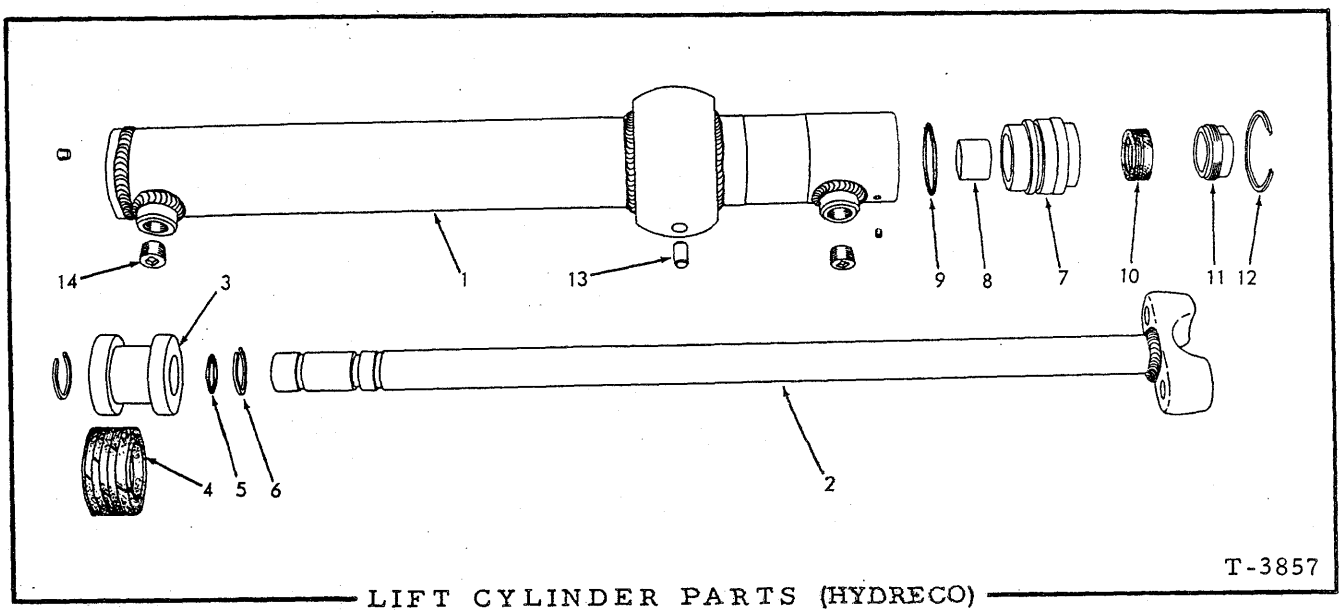
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CIRCLE TURN PARTS

USAGE: See pages 180 and 184

ITEM	PART NO.	QTY.	DESCRIPTION
1	70645056	1	HOUSING ASSY. (Includes items 2 and 5)
	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	70603010	1	SEAL, oil worm shaft
5	70078424	1	BUSHING, worm shaft

(Continued)



LIFT CYLINDER PARTS (HYDRECO)

USAGE: Early graders only

* Moldboard Lift Cylinder (See page 190)
** Scarifier Lift Cylinder (See page 272)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
				NOTE: Parts for the interchangeable HUSCO Cylinder Assemblies are listed on page 194. Quantities indicated below are for one (1) cylinder only.
1	70073846	1	-	TUBE ASSEMBLY, cylinder, moldboard lift (Includes item 13)
1	70073838	-	1	TUBE ASSEMBLY, cylinder, scarifier lift (Includes item 13)
	70910231	1	1	PLUG, pipe, ctsk-hd., 1/8"NPT
	70915794	1	1	SETSCREW, socket-hd., cup-pt., 1/4"NC x 1/4"
2	70073849	1	1	ROD, piston
3	70073845	1	1	PISTON
4	70066784	1	1	PACKING ASSEMBLY, piston (Serviced only as a unit)
5	70923575	1	1	O-RING, piston
6	70069926	2	2	RING, snap, piston retaining
7	70073844	1	1	BOX ASSEMBLY, stuffing (Includes item 8)
8	70069922	1	1	BUSHING, stuffing box
9	70923814	1	1	O-RING, stuffing box
10	70079202	1	1	PACKING ASSEMBLY, stuffing box (5 split rings)
11	70069924	1	1	NUT, stuffing box packing
12	70069923	1	1	RING, snap, stuffing box
13	70065823	1	1	PIN, cylinder guide
14	------	2	2	PLUG, shipping (Remove and discard when installing)

MEMO

AUXILIARY HYDRAULIC CONTROLS

USAGE: Graders serial No. 2223 and up when equipped with multiple special attachments

* 2-Plunger Valve (Illustrated)
** 3-Plunger Valve (Not Illustrated)

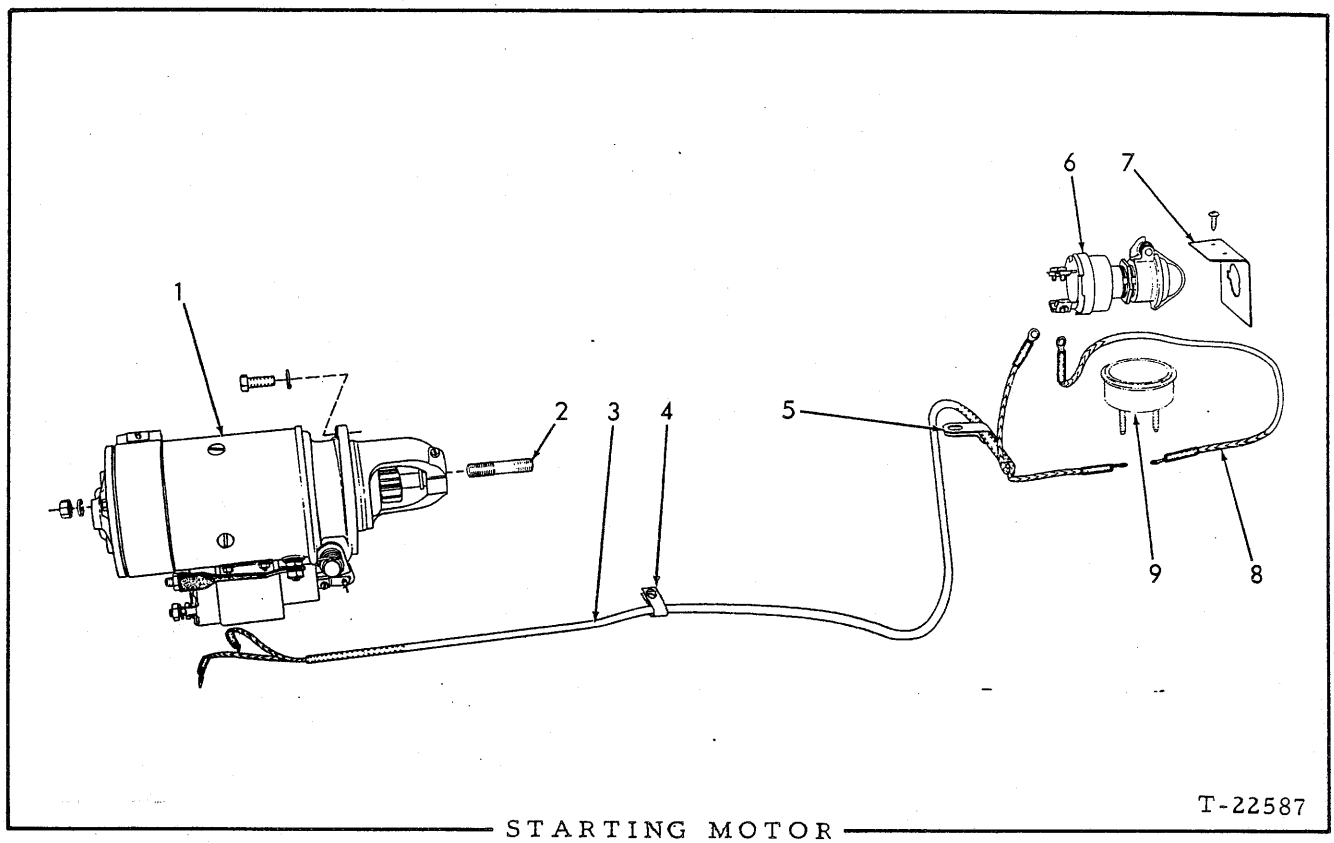
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	70091011	1	-	VALVE ASSEMBLY, auxiliary control (See page 216 for parts)
	70091012	-	1	VALVE ASSEMBLY, auxiliary control (See page 216 for parts)
	70919227	4	4	CAPSCREW, 3/8"NC x 3-1/4"
	70904206	4	4	LOCKWASHER, 3/8"
	70911026	4	4	NUT, 3/8"NC
2	70091862	2	3	KNOB, operating lever
3	70658814	1	1	LEVER, operating (12" long)
	70658813	1	2	LEVER, operating (10" long)
4	70627451	4	6	PIN, operating lever
	70900942	4	6	PIN, cotter, 3/32" x 5/8"
5	70645413	1	1	HOSE ASSEMBLY, valve connecting (See HOSE PARTS)
	70919472	2	2	CONNECTOR, flare type, 5/8" tube, 1/2"NPT male
6	70622993	1	1	HOSE ASSEMBLY, valve return line (See HOSE PARTS)(Used prior to grader #2328)
	70919472	1	1	CONNECTOR, flare type, 5/8" tube, 1/2"NPT male
	70920662	1	1	ELBOW, flare type, 5/8" tube, 1/2"NPT male
	------	1	1	HOSE, valve return line (18" long. Order item 13)(Effective with grader #2328)
	70921911	2	2	CLAMP, hose, 11/16" to 1-1/4" diam.
7	70629847	2	2	PIPE (1/2"NPT x 1-1/2", threaded one end)
	70901724	1	1	ELBOW, street, 90°, 1/2"NPT
8	70645393	1	1	HOSE, pump to valve (See HOSE PARTS)
	70921030	1	1	CONNECTOR, flare type, 5/8" tube, 3/4"NPT male
	70920662	1	1	ELBOW, flare type, 5/8" tube, 1/2"NPT male
9	70622992	1	1	CLIP, hose supporting
	70916268	1	1	CAPSCREW, 3/8"NC x 5/8"
	70904206	1	1	LOCKWASHER, 3/8"
10	70090957	1	1	PLATE, cover, valve mounting } Replaces standard Plate 70090954
	70090956	-	1	PLATE, cover, valve mounting } Replaces standard Plate 70090954
	70916272	2	2	CAPSCREW, 3/8"NC x 1-1/4" } Used only with 2-plunger valve on right side
	70904206	2	2	LOCKWASHER, 3/8" } Used only with 2-plunger valve on right side
11	70923575	1	1	O-RING, control valve to plate
12	70054034	1	1	CLIP, supporting, return line hose (Early Units only)
13	70920728	-	-	HOSE, medium pressure, 7/8"I.D., 25 ft. roll (Use as req'd)

PAINTING AND MARKING
(Not Illustrated)

ITEM	PART NO.	QTY.	DESCRIPTION
1	70921543	-	ENAMEL, persian orange, quart can
	70925109	-	ENAMEL, A-C yellow, quart can
2	70921544	-	ENAMEL, persian orange, gallon can
	70925110	-	ENAMEL, A-C yellow, gallon can
3	70921092	-	ENAMEL, persian orange, 12-ounce pressurized spray-type can
	70925108	-	ENAMEL, A-C yellow, 12-ounce pressurized spray type can
			NOTE: Approximately 2 gallons required for spraying one coat
4	70661608	2	TRANSFER, identification, "DD" (3" x 13-1/2")(Applied to sides of seat)
5	70924548	2	TRANSFER, "ALLIS-CHALMERS"(1-1/4" x 20")(Applied to sides of hood; also to rear of frame and sides of seat on early units)
	70924552	2	TRANSFER, "ALLIS-CHALMERS"(2-3/8" x 39")(Applied to sides of frame)
6	70924305	2	TRANSFER, trademark (5-5/8" black and orange)(Applied to radiator shell and front of frame)
7	70623490	2	TRANSFER, "ROLL-AWAY MOLDBOARD" (5-1/2" diam.) (Applied to moldboard)
8	70621391	1	TRANSFER, gear shift diagram (1-3/4" x 3", pressure-sensitive) (Applied to gear shift lever guide)
9	70630868	1	TRANSFER, grader check and lubrication guide (7-1/2" x 11") (Applied to inside of right seat side)(For graders #5425 and up only)
10	70095167	1	TRANSFER, instruction, oil filter (7/8" x 3-1/4")(Applied to engine oil filter prior to grader #5425)
11	70658690	1	TRANSFER, instruction, air cleaner (2-1/4" x 3-3/4")(Applied to oil-bath cleaners only)
	70638419	1	TRANSFER, instruction, air cleaner (1-3/4" x 3")(Applied to all dry-type air cleaners except 70659389)
	70661524	1	TRANSFER, instruction air cleaner (2-1/2" x 5")(Applied to dry-type air cleaner 70659389 only)
12	70651894	1	TRANSFER, instruction air cleaner cartridge replacement (1-5/16" x 2-7/16")(Applied to early-type air restriction indicator only)
13	70621342	1	TRANSFER, instruction, engine primer (1-3/4" x 6")(Applied to inside of left seat side)
14	70621338	1	TRANSFER, instruction, air heater operation (2" x 6")(For flame-type air heater only. Applied to right inside of seat back)

TAIL LIGHT AND WIRING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	70239726	2	TIE, harness supporting
9	70064589	1	GROMMET, rubber
10	70639314	6	CLIP, wiring, harness (3/8" diam., 13/32" bolt-hole)
	70916284	6	CAPSCREW, 1/4"NC x 1/2"
	70911114	6	WASHER, plain, SAE std., 1/4"
11	70673809	2	CLIP, wiring harness (3/16" diam., 13/32" bolt-hole)
	70916268	2	CAPSCREW, 3/8"NC x 5/8"
	70911115	2	WASHER, plain, SAE std., 3/8"
12	70068372	1	ANGLE, switch supporting

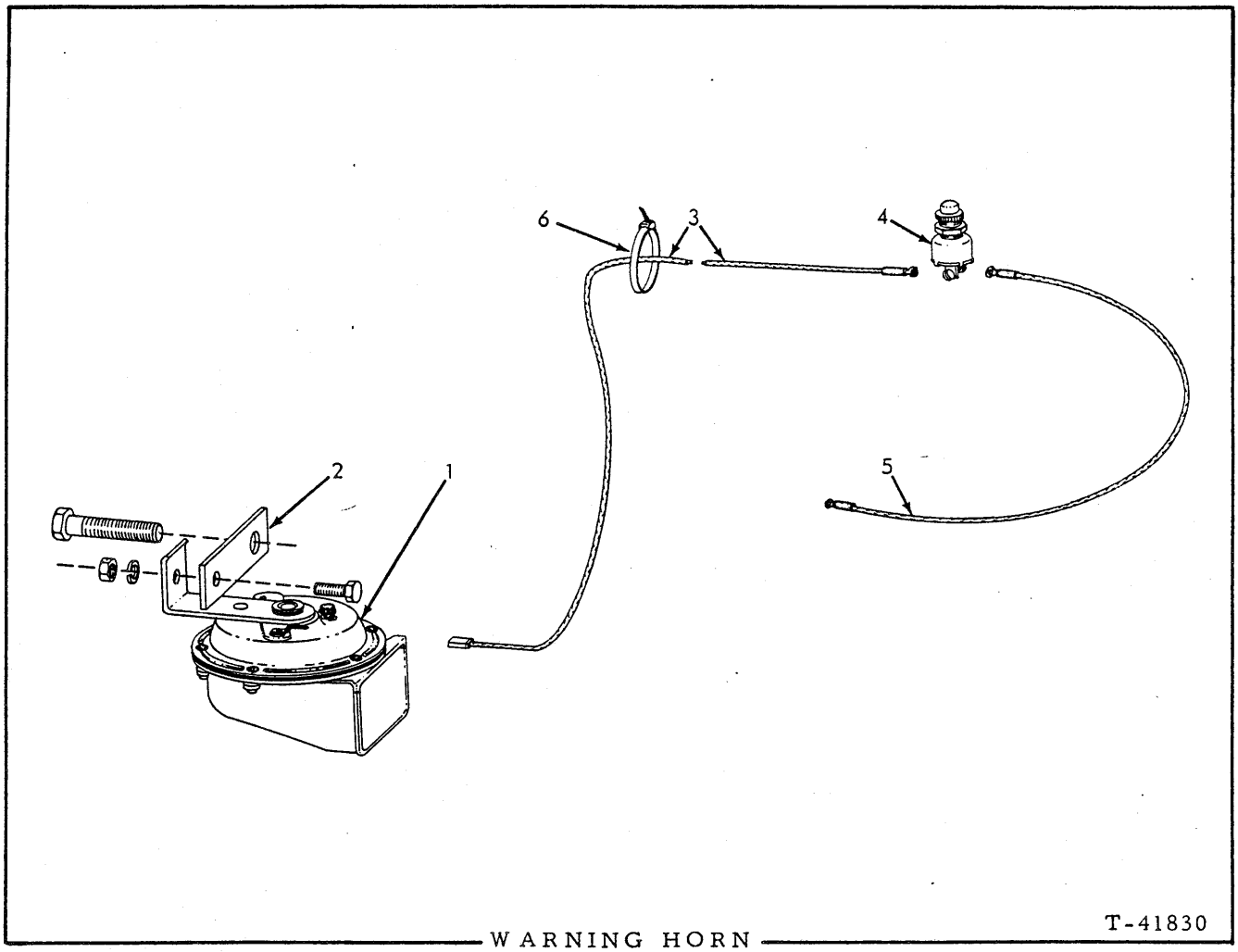


STARTING MOTOR

USAGE: Graders serial No. 1924 thru 2492

ITEM	PART NO.	QTY.	DESCRIPTION
1	70229649	1	MOTOR, starting (Delco-Remy #1113082. See page 240 for parts)
	70912187	1	CAPSCREW, 7/16"NC x 1"
	70904207	1	LOCKWASHER, 7/16"
2	70604821	1	STUD, attaching, starting motor (1/2" diam.)(Also serves as dowel for engine to transmission)(1 additional used effective with grader #2020)
	70904208	1	LOCKWASHER, 1/2"
	70911028	1	NUT, 1/2"NC
3	70096027	1	HARNESS, wiring, starting switch
4	70040796	1	CLIP, harness supporting (3/8" diam., 13/32" bolt-hole)
5	70091046	1	CLIP, harness supporting (1/2" diam., 7/16" bolt-hole)(Also supports temperature gauge tube)
6	70198807	1	SWITCH, starting
7	70095843	1	BRACKET, starting switch
	70910160	2	SCREW, thread-cutting, #10 x 1/2"
8	70074887	1	CABLE, starting switch to ammeter (14" long)
9	------	-	AMMETER (See INSTRUMENTS)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
9	70095858	1	1	TUBE ASSY., oil pressure gauge (Includes nuts)
	70919244	1	2	CONNECTOR, flare type, 3/16" tube, 1/8"NPT male
	70919827	1	-	CONNECTOR, flare type, 3/16" tube, 1/8"NPT female (Not used when HOUR METER is installed)
10	70094450	-	1	TEE, extension
	70901651	-	1	PLUG, pipe, 1/8"NPT
11	-------	-	1	SWITCH, pressure (See ALTERNATOR)
12	70073809	1	-	CLIP, pressure gauge tube (3/16" diam., 13/32" bolt-hole)
	70915408	1	-	CAPSCREW, 3/8"NC x 3/4"
	70904206	1	-	LOCKWASHER, 3/8"
	70911026	1	-	NUT, 3/8"NC
	70644758	-	2	CLIP, pressure and temperature gauge tubes (3/16" diam., 9/32" bolt-hole)
	70916282	-	1	CAPSCREW, 1/4"NC x 7/8"
	70911114	-	1	WASHER, plain, SAE std., 1/4"
	70904204	-	1	LOCKWASHER, 1/4"
	70911024	-	1	NUT, 1/4"NC
13	73023024	2	2	LIGHT ASSY., panel (Consists of items 14 thru 16)
14	-------	2	2	BASE ASSY. (Not serviced separately)
15	73046487	2	2	BULB, incandescent, 12 volt
16	73037183	2	2	SHIELD, panel light
17	70659154	2	2	CABLE, panel light to ground (6" long)
	70903752	1	1	SCREW, machine, #6-32 x 1/2"
	70906963	1	1	LOCKWASHER, #6
	70901309	1	1	NUT, #6-32
18	70659157	1	1	CABLE, switch to panel light



WARNING HORN

USAGE: Special equipment. Used on graders serial No. 3019 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	73044471	1	HORN (12-volt)
	70915809	1	CAPSCREW, 5/16"NC x 3/4"
	70904205	1	LOCKWASHER, 5/16"
	70911025	1	NUT, 5/16"NC
2	70641694	1	PLATE, mounting
	70916315	1	CAPSCREW, 1/2"NC x 2-1/4"
3	70641692	1	CABLE, horn to switch (46" long)
4	70031337	1	SWITCH, push-button
5	70068337	1	CABLE, switch to ammeter (11" long)
6	70239726	1	TIE, cable supporting

CAB

USAGE: Special equipment on units prior to June 1969.

* Integral type. Used prior to January 1962
** Knock-down type. Effective January 1962

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	1	-	BODY only (Not serviced separately)
	70916272	6	-	CAPSCREW, 3/8"NC x 1-1/4"
	70900817	6	-	WASHER, plain, U.S. std., 3/8"
	70904206	6	-	LOCKWASHER, 3/8"
	70911026	6	-	NUT, 3/8"NC
	70914670	12	-	CAPSCREW, 5/16"NC x 1-1/8"
	70901165	12	-	WASHER, plain, U.S. std., 5/16"
	70904205	12	-	LOCKWASHER, 5/16"
	70911025	12	-	NUT, 5/16"NC
2	70079913	2	2	GLASS, body side panel
3	70077977	2	2	SEAL, body side panel glass
4	70077982	2	2	STRIP, expanding, side panel glass seal
5	70079912	1	1	GLASS, rear window
6	70079920	1	1	SEAL, rear window glass
7	70079922	1	1	STRIP, expanding, window glass seal
8	70079970	3	3	STRAP, cover retaining, inside
	70079907	1	1	STRAP, cover retaining, outside
9	70918156	9	9	SCREW, truss-head, 1/4"NC x 5/8"
	70904204	9	9	LOCKWASHER, 1/4"
	70911024	9	9	NUT, 1/4"NC
10	70079964	1	1	COVER, rear loader control opening
11	-----	2	-	ANCHOR, door
	70916271	4	-	CAPSCREW, 3/8"NC x 1"
	70904206	4	-	LOCKWASHER, 3/8"
	70911026	4	-	NUT, 3/8"NC
	70630126	-	2	ANCHOR, door
	70915406	-	4	CAPSCREW, 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
12	70079905	1	1	SEAL, cab to seat, left
	70079906	1	1	SEAL, cab to seat, right
13	70079943	2	2	CLIP, seal retaining, outside (long)(Used prior to cab #22227)
	70638117	-	2	CLIP, seal retaining, outside (short)(Effective with cab #22227)
14	70079942	2	2	CLIP, seal retaining, inside
15	70079903	1	1	SEAL, steering wheel opening (rubber)

(Continued)

SCARIFIER

USAGE: Graders prior to serial No. 2223. Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	70601160	7	TOOTH
2	70067306	1	FRAME (Includes item 26)
	70914465	1	FITTING, lubricating, straight, 1/8"NPT
3	70035420	4	CAPSCREW, 1"NF x 3-1/4"
	70910916	4	LOCKWASHER, 1"
	70911047	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	70012984	2	CAPSCREW, 3/4"NF x 2-3/4"
	70904369	2	LOCKWASHER, 3/4"
	70911045	2	NUT, 3/4"NF
9	70067302	1	BRACKET, frame pivot, left
10	70012984	2	CAPSCREW, 3/4"NF x 2-3/4"
	70904369	2	LOCKWASHER, 3/4"
	70911045	2	NUT, 3/4"NF
11	70069739	1	HOSE, valve to cylinder, lower (24" long)(Used when control valve is mounted on right side)
	70069716	2	HOSE, valve to cylinder, lower (16-1/4" long)(Used when control valve is mounted on left side)
	70901765	1	COUPLING, pipe, 3/8" NPT (For joining 70069716 HOSES)
	70901723	1	ELBOW, street, 90°, 3/8"NPT
	70904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
	70922507	1	ELBOW, adjustable, 45°, flare type, 1/2" tube, 3/4" straight thread (Includes O-RING) — Service Replacement
	70921349	1	O-RING — Service Replacement
12	--------	1	VALVE (See HYDRAULIC CONTROLS)
13	--------	1	LEVER (See HYDRAULIC CONTROLS)
14	70069710	1	UNION, adapting, cylinder upper hose
	70901723	1	ELBOW, street, 90°, 3/8"NPT
	70904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT (Used prior to grader #1868)
15	70069715	1	UNION, elbow, cylinder lower hose (Used prior to grader #1868)
	70904271	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
	70090623	1	UNION, adapting, cylinder lower hose (Effective with grader #1868)
	70901723	1	ELBOW, street, 90°, 3/8"NPT
	70901765	1	COUPLING, pipe, 3/8"NPT
	70901489	1	NIPPLE, pipe, 3/8"NPT x 1"

(Continued)

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