

REPAIR CATALOG

WHITE FORKLIFT

PUBLICATION # R-2145

MSB-20 PRIOR TO 34100920

MSB-25 PRIOR TO 34100931

MSB-30 PRIOR TO 34100820

MSB-35 PRIOR TO 34100906

INCLUDES SUPPLEMENTS A AND B

SUPPLEMENT "A" TO REPAIR CATALOG R-2145

FOR

MSB SERIES

FORK LIFT TRUCKS



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White Materials Handling Division

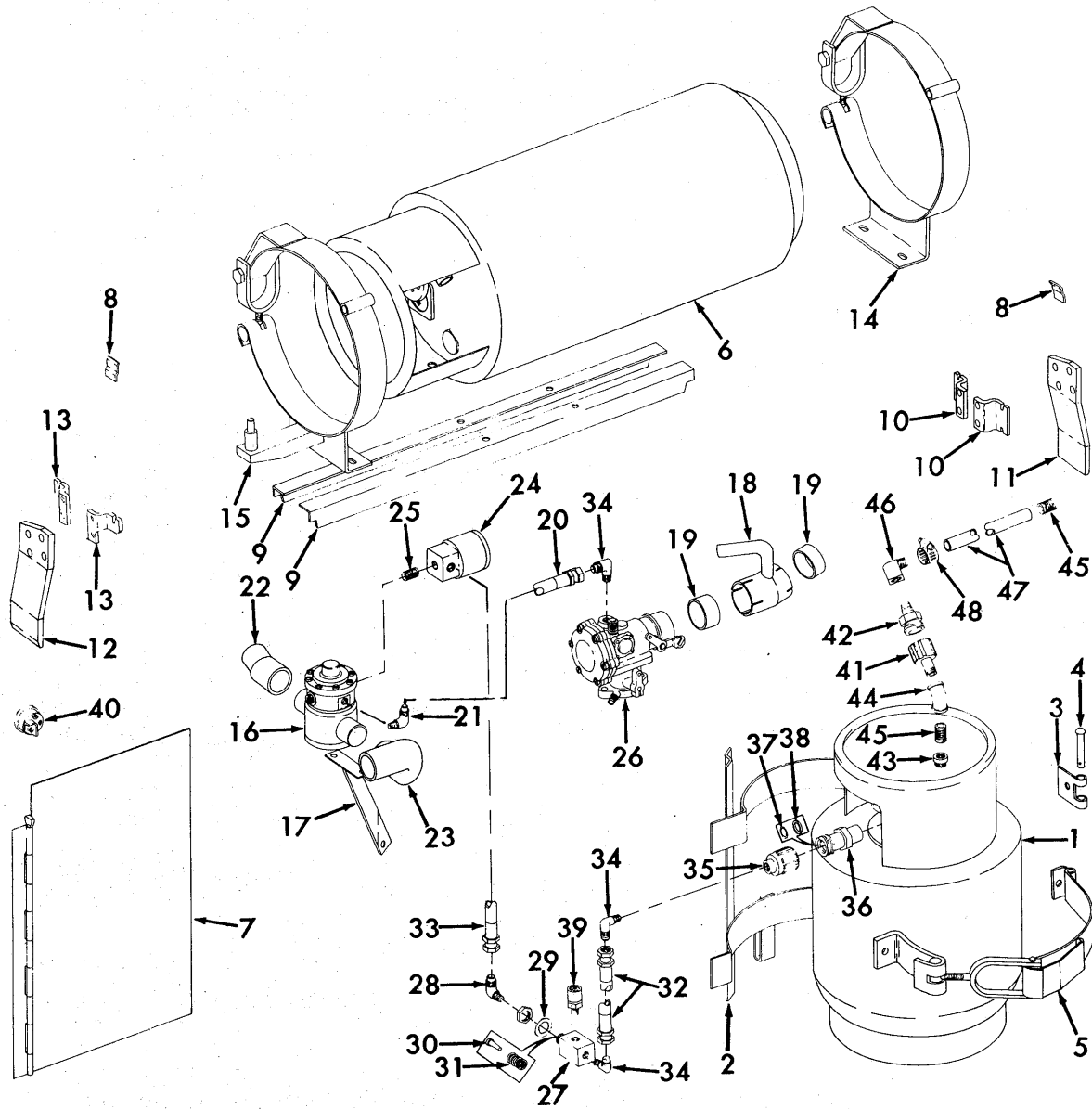
WHITE MOTOR CORPORATION
HOPKINS, MINNESOTA 55343



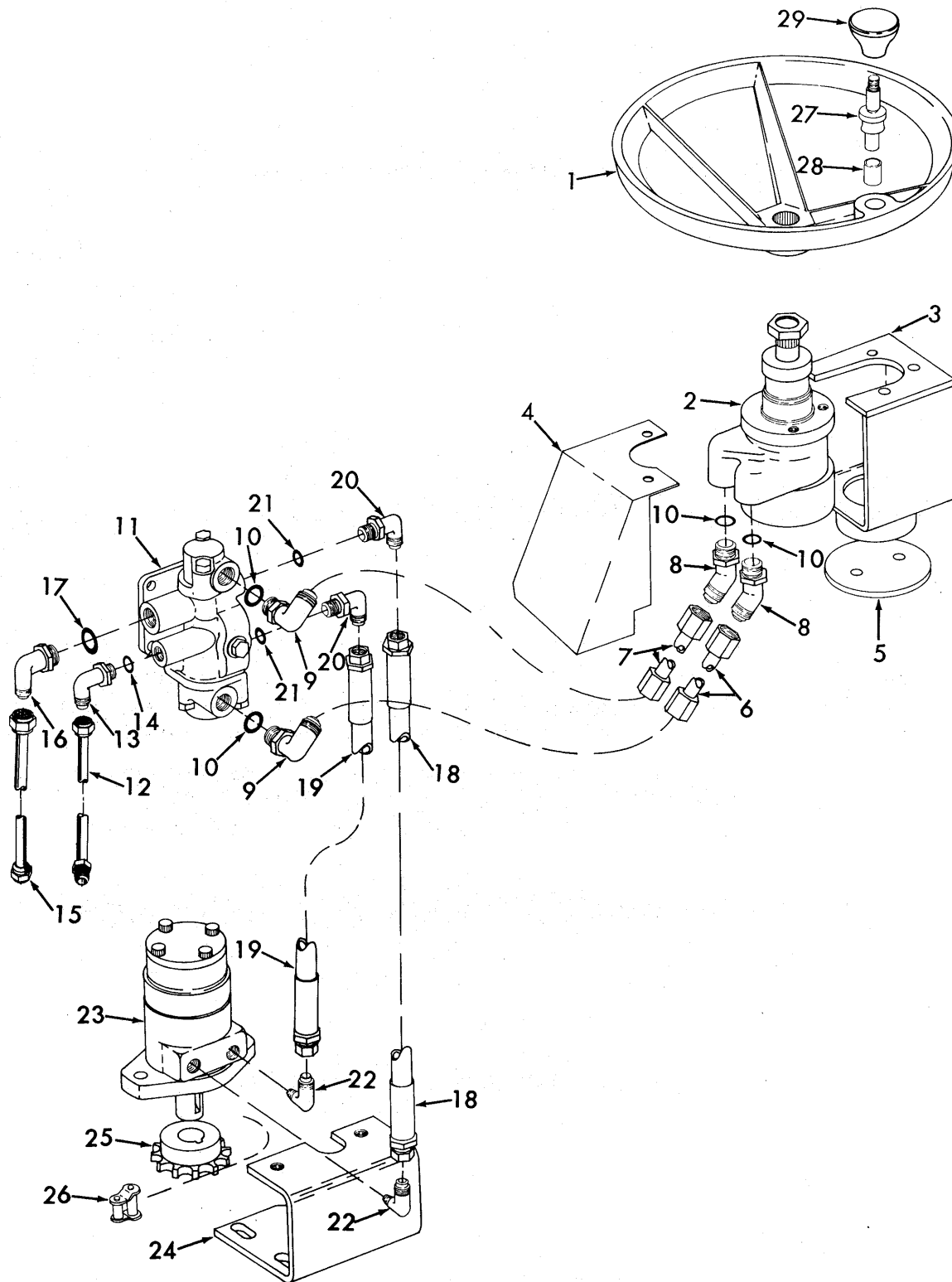
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 4		This supplement is to be used in conjunction with Repair Catalog R-2145 on MSB Series Fork Lift Trucks. Refer to this supplement for changes plus new additions. Power Steering, self adjusting brakes and other changes are included. Refer to Cylinder Block, Head Assembly and Intake Manifold Group. Change Ind. Ford No. 405585 bearing (ref. #3) to 444025. Change Ind. Ford No. 405587 bearing (ref. #4) to 444028. Omit 35P2429 plug (ref. #11), not used. Change quantity of 35P2430 plug (ref. #12) from 2 to 3. Omit 35P2391 plug, not used. Change Ind. Ford No. C3AZ-10884-A unit to C3TZ-10884-A.	
Page 6		Refer to Crankshaft, Main Bearings, Camshaft Group. Omit all ref. #3 and 4 bearings and add:	
3	35R123	436090 Bearing - crankshaft, center, std., red, 2 halves	1
3	35R124	436091 Bearing - crankshaft, center, .0005 U.S., blue, 2 halves	1
3	35R125	436093 Bearing - crankshaft, center, .0098 (.25 mm U.S.) 2 halves	1
4	35R126	436083 Bearing - crankshaft, front and rear, std., red, 2 halves	2
4	35R127	436084 Bearing - crankshaft, front and rear, .0005 U.S., blue, 2 halves..	2
4	35R128	436394 Bearing - crankshaft, front and rear, .0098 U.S., (25 mm), 2 halves	2
		Change 425627 pulley (ref. #25) to 425939.....	
Page 8		Refer to Piston and Connecting Rod Group. Omit all ref. #2 bearings and add:	
2	35R129	405654 Bearing - connecting rods, std., red, 2 halves.....	4
2	35R130	405656 Bearing - connecting rods, .0005 U.S., blue, 2 halves	4
2	35R131	405660 Bearing - connecting rods, .0098 U.S., (25 mm), 2 halves.....	4
		Omit 35P2411 Kit - ref. #5 (not repairs)	
Page 14-15		Refer to Fuel Filter and Fuel Pump Group. Omit 35P2366 bolt (ref. #5), not used. Change Ind. Ford No. 207167 spring (ref. #22) to 407167 (Correction). Omit ref. #29 from washer in illustration, push rod, fuel pump, (#29, not illustrated.)	
Page 18		Refer to Engine Oil Filter Group. Omit 50A4556 bushing (ref. #7) Change 50A4413 elbow (ref. #8) to 50A1909 and size to 3/8".	
Page 20		Refer to Starter Group Change 35P2610 (204736) nut (ref. #6) to 35A10494. Change Ind. Ford No. 425709 armature (ref., # 18) to 541709.	
Page 22		Refer to Distributor assembly and Mounting Parts Group. Change Ind. Ford No. 425979 spring (ref. #7) to 444249. Change Ind. Ford No. 425605 unit (ref. #15) to 425606 (correction).	
Page 24		Refer to Radiator, Fan, Thermostat Housing Group. Change Ind. Ford No. 21074-GS8 bolt (ref. #11) to 201336. Add Ind. Ford No. 405898 to 35A9816 hose (ref. #19). Change 50A4296 clamp to 50A4297 and size to 1-1/8". Change 35P2380 bolt (ref. #22) to 35A9948, (same as).	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 26		Refer to Carburetor - Gasoline Engine Group. Change Ind. Ford No. 405842 gasket (ref. #31) to 425713.	
Page 28		Refer to Wiring Harness, Alternator, Horn and Battery Group. Add note to 35A9931 wire (ref. #5), used with Ford gauges. Change 35P2367 Spark Plug Ind. Ford AE22 to AC No. 42 FS.	
23	35P2742	Spark Plug - engine, hot plug (Auto Lite AE32 special) Change 35A9843 bar (ref. #26) to 11A26776 (35A9843). Change 35A8248 regulator (ref. #29) to 10P3009 (same as).	4
Page 31		Refer to Instrument Panel and Instrument Group. Change 35A4770 wire (ref. #6) to 35A8195 and description hourmeter ground. Change Ind. Ford No. C3TZ-10883-A unit (ref. #10) to C3TZ-10884-A. Change Ind. Ford No. B9MZ-10804A Transformer (ref. #13) to B9NZ-10804-C. Add a single asterisk to 35A9928 gauge (ref. #9) thru 35A9931 wire (ref. #14). *Note: Used on MSB Series Lift Trucks with Ford Gauges. Add the following parts for MSB Series Fork Lift Trucks with Stewart-Warner Gauges.	
9	35A7737	**Gauge - water temperature	1
10	35A10522	**Unit - temperature	1
11	35A10523	**Gauge - oil pressure	1
12	10A25377	**Unit - oil pressure sending	1
		** 50A4555 Bushing - reducer, 1/4" x 1/8"	1
		** Note: Used on MSB Series Fork Lift Trucks with Stewart-Warner Gauges.	
		LP-GAS EQUIPMENT	
1	35A5033	*Tank - with fittings, 20 lb., (Pressed Steel Tank Co., Model V20L)	1
2	36A5035	*Support - tank	1
		50A3666 Bolt - hex., 3/8"-16 x 1"	2
		50A1900 Nut - hex., 3/8"-16	2
		50A4205 Washer - plain, 7/16" I.D., 1" O.D.	2
3	35A4961	*Hinge - support	2
4	15A5346	*Pin - hinge	2
		*GM177923 Pin - cotter, 1/8" x 3/4"	2
5	35P1774	*Clamp - tank, (35A4959 Inter.)	1
	35A10155	*Hose - assembly, vaporizer to filter	1
		*Note: Used on LP-Gas equipped trucks with 20 # tank.	
6	D1186	**Tank - with fittings, 33-1/2 lb., (Pressed Steel Tank Co., Model H33L)	1
7	36A8296	**Door - tank service	1
8	35A8297	**Guide - hood, 1" x 1-1/4"	2
9	35A8298	**Brace - hood, 1-1/4" x 29-1/4"	2
10	35A8299	**Guide - hood support, R.H., 3/4" offset, 2" x 2-1/4"	2
11	35A10178	**Support - side member, R.H., offset, 3/8" x 3" x 7-7/8"	1
12	35A10179	**Support - side member, L.H., offset, 3/8" x 3" x 7-7/8"	1
		** 50A3664 Bolt - hex., 3/8"-16 x 3/4"	4
		** 50A3666 Bolt - hex., 3/8"-16 x 1"	8
		** 50A1900 Nut - hex., 3/8"-16	12
		** 50A3668 Bolt - hex., 3/8"-16 x 1-1/2"	1
13	35A10177	**Guide - hood support, L.H., 3/4" offset, 2" x 2-1/4"	2
14	35P508	**Strap - mounting, fuel tank, left hand	1
15	35P516	**Strap - mounting, fuel tank, right hand	1
		** 50A3922 Screw - flat head, slotted, 3/8"-16 x 1"	4
		** 50A1900 Nut - hex., 3/8"-16	4
		** 50A4205 Washer - plain, 7/16" I.D., 1" O.D.	4
		**Note: Used on LP-Gas equipped trucks with 33-1/2 lb. tank.	

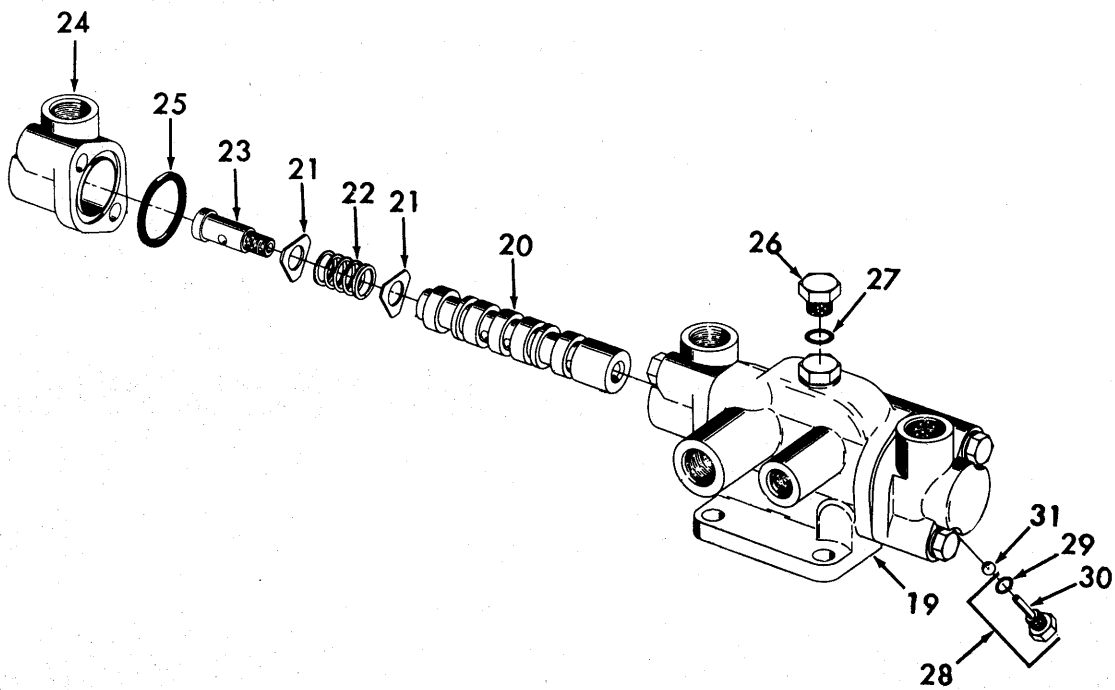
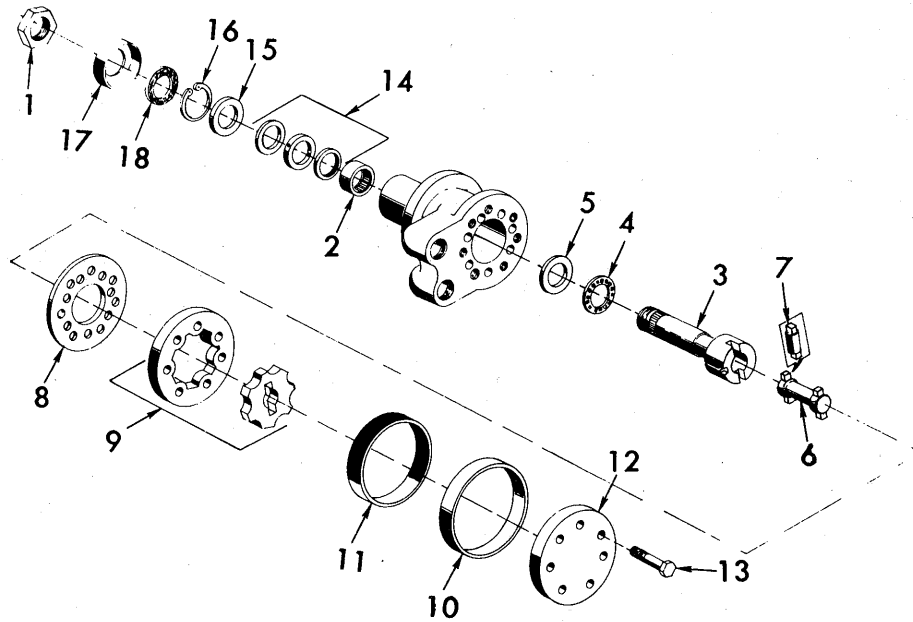
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
LP-GAS EQUIPMENT (Cont'd)			
16	35A10211	Vaporizer - assembly, (Zenith No. G57)	1
	35P2255	Kit - repair, vaporizer, (includes seals, diaphragm, springs and valves) ..	1
17	36A9927	Mount - vaporizer	1
		50A3647 Bolt - hex., 1/4"-20 x 7/8"	2
	35A10880	Bracket - vaporizer mount, 7/8" x 7-5/8" long	1
18	36A9928	Adapter - carburetor to air cleaner	1
		50A4285 Clamp - hose, 1-3/8"	2
		50A4289 Clamp - carburetor, 2-1/4"	1
		50A4554 Bushing - reducer, 3/8" to 1/8"	1
19	35A9563	Band - adapter, 2" O.D. x 1" long	2
20	35A10157	Hose - vaporizer to carburetor, 3/8" I.D. x 11" long	1
21		50A5119 Elbow - vaporizer, 3/8" N.P.T. x 90° with 45° flare	1
22	35A10158	Hose - engine to vaporizer, 1-1/4" x 1-1/2" I.D. x 3-1/2" long	1
23	35A10159	Hose - vaporizer to radiator, 1-1/4" x 1-1/2" I.D. x 85°	1
24	35P1084	Solenoid - 12 volt	1
25		50A4450 Nipple - pipe, close, 1/4" N.P.T. x 7/8"	2
		50A2492 Elbow - street, 1/4" N.P.T. x 90°, 45° flare	1
26	35A10212	Carburetor - LP-Gas, (Zenith PC2J10)	1
	35P2256	Kit - repair, carburetor, (includes seals, "O" rings and idle adjusting needle)	1
	35A10220	Stud - carburetor, 5/16"-18 x 3-3/8"	2
		50A3730 Nut - hex., 5/16"-18	2
27	35P514	Bulkhead - filter	1
		Includes the following 2 parts:	
28		50A4386 Elbow - filter, 1/4" N.P.T. x 3/8"	1
29		GM125700 Washer - lock, internal lock, 7/8"	1
30	35P1605	Element - filter	1
31	35P1608	Spring - filter	2
32	35A10155	Hose - assembly, filter to tank, 3/8" I.D. x 14-1/2" long	1
33	35A10156	Hose - assembly, vaporizer to filter, 33-1/2" #3/8" I.D. x 21" long	1
35	35P519	Coupling - hose to tank, female	1
36	35P517	Coupling - hose to tank, male	1
		Includes the following 2 parts:	
37	30A1701	"O" Ring - coupling	1
38	35P1769	Gasket - coupling	1
39	35P515	Valve - relief	1
40	35P525	Switch - oil pressure	1
		50A4571 Tee - pipe, oil filter	1
		50A2281 Connector - Tee, 1/2"	1
		50A1909 Elbow - oil filter, 3/8" x 90°	1
	10A2640	Wire - ignition switch and hydraulic switch to solenoid, 14 Ga. x 30"	3
41	35P1307	Coupling - relief valve, female	1
42	35P1308	Coupling - relief valve, male	1
43	35P1309	Adapter - relief valve	1
44		50A4601 Elbow - adapter, 3/8" N.P.T. x 45°	1
45		50A4451 Nipple - pipe, close, 3/8" N.P.T.	2
46		50A2476 Elbow - street, 3/8" N.P.T. x 90°	1
47	35P1311	Hose - relief valve	1
48	35P1310	Clamp - hose	1
	35A10017	Decal - instructions, LP-Gas, 2-15/64" x 4"	1



Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		POWER STEERING MOTOR, VALVE AND LINES	
1	35A10535	Wheel - steering	1
2	15A19223	Motor - steering, upper, see breakdown on page 8	1
3	36A9982	Mount - steering motor, upper	1
		50A3655 Bolt - hex., 5/16" -18 x 3/4"	3
4	36A10582	Cover - steering motor, upper	1
5	35A10419	Holder - mount, 1/4" thick x 4" O.D.	1
		50A3656 Bolt - hex., 5/16" -18 x 1"	2
6	10A26256	Tube - steering motor to valve, long, 1/2" O.D. x 11-5/16"	1
7	10A26257	Tube - steering motor to valve, short, 1/2" O.D. x 6-3/8"	1
8		50A5606 Elbow - motor, 45°, 3/4"-16 straight thread, 37° flared	2
9		50A4424 Elbow - valve, 90°, 3/4"-16 straight thread, 37° flared	2
10	10A12012	"O" Ring - elbows, 41/64" I.D.	4
11	15A19226	Valve - assembly, see breakdown on page 8	1
		50A3667 Bolt - hex., 3/8"-16 x 1-1/4"	3
		50A1900 Nut - hex., 3/8"-16	3
12	10A26253	Tube - valve to pump	1
13		50A4423 Elbow - valve inlet, 90°, 9/16"-18	1
14	10A16405	"O" Ring - elbow, for 50A4423, 5/8" O.D.	1
15	10A26252	Tube - valve to transmission control hose	1
16		50A189 Elbow - valve, 90°-3/4"-16	1
17	10A12012	"O" Ring - elbow, 41/64" I.D.	1
18	35A10605	Hose - valve to steering motor, lower, 1/4" I.D. x 15"	1
19	35A9168	Hose - valve to steering motor, lower, 1/4" I.D. x 17"	1
20		50A4423 Elbow - valve, 90°, 9/16"-18	2
21	10A16405	"O" Ring - elbow, 41/64" I.D.	2
22		50A4413 Elbow - motor, 90°, 1/4" N.P.T.	2
		50A4557 Bushing - reducer, 1/2" to 1/4"	2
23	35A10533	Motor - steering, (Char-Lynn No. D4P)	1
		50A1642 Bolt - 12 PT., 1/2" x 1"	2
		Note: 35A10533 Motor should be serviced by Char-Lynn Service Shops.	
24	35A10499	Bracket - steering motor support, lower	1
		50A3680 Bolt - hex., 1/2"-13 x 1-1/4"	3
		50A4212 Washer - plain, 17/32" I.D., 1-1/16" O.D.	3
25	35A10445	Sprocket - steering, on motor, 13 teeth	1
		50A4161 Set Screw - hex. socket, cup point, 1/4" x 1/2"	1
		50A5154 Key - (Woodruff No. 15)	1
26	15P929	Link - offset, 5/8" pitch	6
27	35A8613	Shaft - spinner, steering wheel	1
		50A4210 Washer - plain, 13/32" I.D., 13/16" O.D.	1
		50A155 Nut - hex. (Nylock) 3/8"-24	1
28	35A4794	Bushing - spinner shaft	1
29	35A8295	Knob - spinner, steering wheel	1
		50A4887 Insert - knob	1

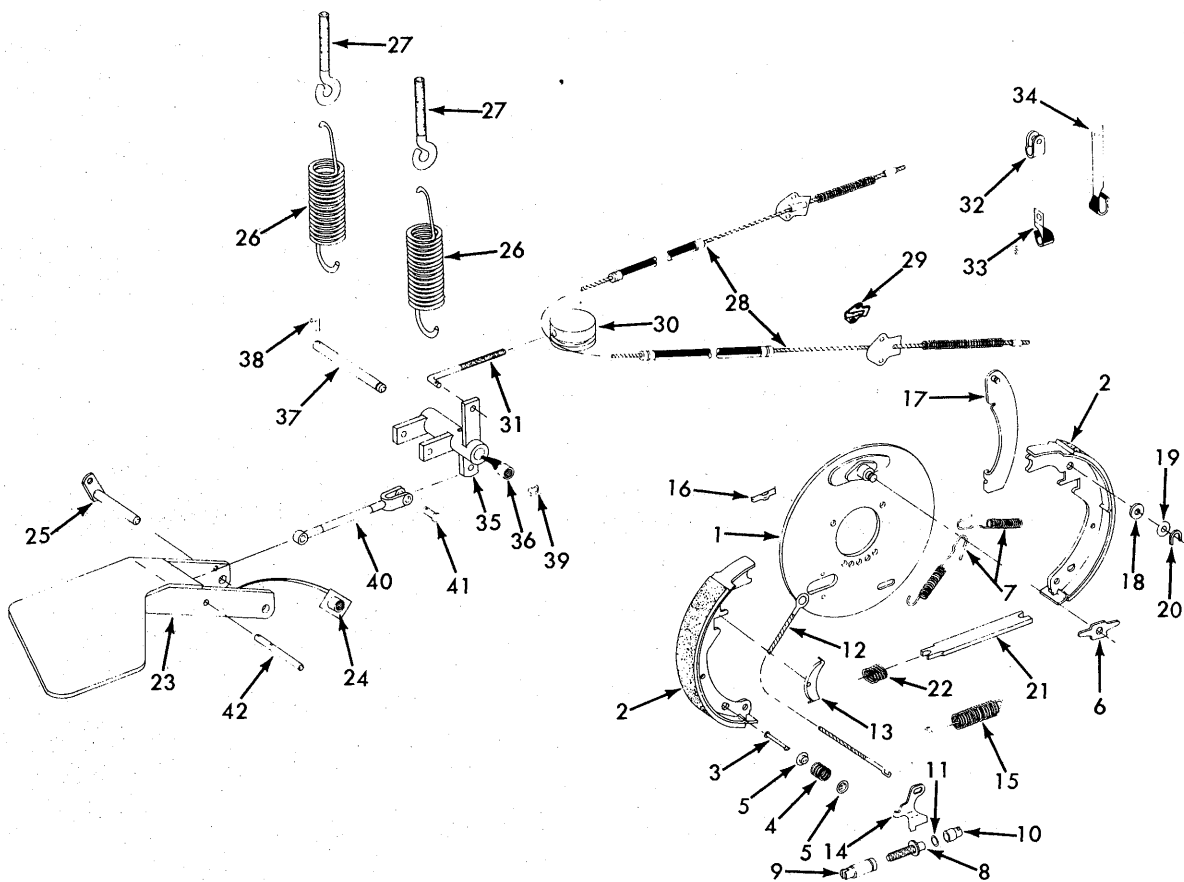


Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		POWER STEERING MOTOR AND VALVE	
	15A19223	Motor - steering.....	1
		Includes the following 19 parts:	
1	35P51	Nut - steering wheel.....	1
2	15P1021	Bearing - needle	1
3	15P1022	Shaft - coupling.....	1
4	15P1023	Bearing - needle thrust.....	1
5	15P1024	Bearing - race	1
-	15P1025	Pin - spool	1
6	15P1026	Link - pump	1
7	15P1027	Pin - link.....	2
8	15P1028	Spacer.....	1
9	15P1029	Rotor Set	1
10	15P1030	Retainer - seal.....	1
11	15P1031	Seal - rotor	1
12	15P1032	Cover - end	1
13	15P1033	Bolt - hex., special, 5/16"-18 x 1-3/4".....	7
14	10P2988	Seal - shaft, with bronze washer and spacer	1
15	15P1035	Washer	1
16	10P1600	Ring - retainer.....	1
17	15P1037	Seal - water.....	1
18	15P1038	Bushing - felt.....	1
19	15A19226	Valve - assembly.....	1
		Includes the following 10 parts:	
20	-----	Spool - valve, not serviceable, order 15A19226 valve assy.	1
21	15P1036	Washer - centering, valve spool.....	2
22	15P1039	Spring - centering, valve spool	1
23	15P1040	Screw - centering, valve spool.....	1
24	15P1041	Cap - ends, valve.....	2
		50A3664 Bolt - hex., 3/8"-16 x 2"	4
25	15P1042	Seal - "O" ring, cap.....	2
26	15P1043	Plug - boss, includes "O" ring.....	1
27	15P1044	Seal - "O" ring, boss plug.....	1
28	15P1045	Plug - roll pin, assembly.....	1
		Includes the following 2 parts:	
29	15P1046	Seal - "O" ring, plug.....	1
30	15P1047	Pin - roll.....	1
31		50A4263 Ball - steel, 1/4" dia.	1



Ref. No.	Part No.	DESCRIPTION	No. Pcs.
DRIVE AXLE, WHEELS AND TIRES			
Used on Lift Trucks with Self Adjusting Brakes			
1	35A10341	Housing - axle, left hand.....	1
2	35A10342	Housing - axle, right hand	1
		GM180148 - Bolt, hex., 7/16"-14 x 1-3/8".....	15
3	35A10478	Shaft - axle, left hand.....	1
4	35A10477	Shaft - axle, right hand.....	1
		50A2746 - Screw, flat head, 3/8"-16 x 1".....	4
5	35A9961	Housing - bearing	2
6	10A5939	Stud - bearing housing	12
		50A1094 - Nut, wheel, 1/2"-20.....	12
7	10A8521	*"O" Ring - left hand axle housing	1
8	E613	*"O" Ring - right hand axle housing	1
9	35A10019	*Seal - oil, axle housing	2
10	10A7607	Cup - bearing, left hand axle housing, inner.....	1
11	35A10018	Bearing - ball, axle housing, outer	2
12	50A5569	Ring - retainer, ball bearing, on axle housing, Tru-Arc N5100-255	2
13		50A5568 - Ring, retaining, in bearing housing, (Tru-Arc N5000-475)	2
14	35A6304	*Ring - sealing, wheel to housing	2
15	35A4445	*Shim - left hand axle housing, .002	A.R.
16	35A4446	*Shim - left hand axle housing, .003	A.R.
17	35A4447	*Shim - left hand axle housing, .005	A.R.
18	35A4448	*Shim - left hand axle housing, .020	A.R.
	35R86	*Kit - gasket, transmission and differential overhaul	1
		NOTE: Kit includes parts identified with a single asterisk ().	
	36A9882	Wheel - with tire, MSB20 and 25.....	2
		Consists of the following 2 parts:	
19	35A9962	Wheel - less tire, MSB 20 and 25.....	2
20	35A4395	Tire - cushion, 16-1/4" x 5" x 11-1/4"	2
	36A10578	Wheel - with tire, MSB 30 and 35	2
		Consists of the following 2 parts:	
21	35A10581	Wheel - less tire, MSB 30 and 35.....	2
22	35A4394	Tire - cushion, 16-1/4" x 7" x 11-1/4".....	2
		NOTE: Reference numbers are from illustration on page 45 in R2145.	
Page 46-47		Refer to Brakes and Brake Linkage Group Add to heading: Used on MSB Series Fork Lift Trucks less self adjusting brakes. Add new group for self adjusting brakes.	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		BRAKES (SELF ADJUSTING) AND LINKAGE	
	35A10516	Brake - complete, R.H.	1
	35A10517	Brake - complete, L.H.	1
		Each includes items thru ref. No. 22:	
		50A1472 - Bolt, 12 pt., 1-7/16"-14 x 3/4".....	14
1	35P2836	Plate - backing, R.H.	1
	35P2835	Plate - backing, L.H.	1
2	35P2809	Shoe - brake, with lining, bonded (pkg. of 4).....	1
3	35P2824	Pin - shoe hold down.....	4
4	35P2825	Spring - shoe hold down (Lt. blue).....	4
5	JT9119	Cup - shoe hold down pin.....	8
6	35P2822	Guide - shoe plate.....	2
7	35P2823	Spring - brake shoe to anchor pin (yellow).....	4
8	35P2811	Screw - adjusting, R.H. brake.....	1
8	35P2810	Screw - adjusting, L.H. brake.....	1
9	35P2813	Nut - pivot screw adjusting, R.H.	1
9	35P2812	Nut - pivot screw adjusting, L.H.	1
10	35P2819	Socket - adjusting screw.....	2
11	35P2820	Washer - adjusting screw.....	2
12	35P2816	Cable - automatic adjuster.....	2
13	35P2826	Guide - cable.....	2
14	35P2828	Lever - automatic adjuster, R.H.	1
13	35P2827	Lever - automatic adjuster, L.H.	1
15	35P2821	Spring - automatic adjuster, blue.....	2
16	JT9125	Cover - adjusting hole.....	2
17	35P2838	Lever - actuating brake, R.H.	1
	35P2837	Lever - actuating brake, L.H.	1
18	35P2839	Washer - plain, between plate and lever.....	2
19	35P2817	Washer - tension, lever pin.....	2
20	35P2818	Retainer - lever pin.....	2
21	35P2830	Strut - brake shoes.....	2
22	35P2829	Spring - strut (red).....	2
23	36A6307	Pedal - brake.....	1
24	35A7608	Bearing - brake pedal, in frame.....	2
25	36A7610	Shaft - pivot, brake pedal.....	1
		50A3655 - Bolt, hex., 5/16"-18 x 3/4".....	1
26	35A4837	Spring - tension, brake pedal, 16-1/2 coils, 2" O.D.	2
27	35A7250	Eye Bolt - spring, 1/2".....	2
		GM120238 - Nut, hex., jam. 1/2"-13.....	4
28	20-3003235	Cable - brake, 81" long (35A10514).....	1
29	35A10218	Cap - cable.....	2
		50A4706 - Screw, tapping, 5/16"-18 x 5/8".....	4
30	20-3003047	Equalizer - cable (35A10521).....	1
31	20-3003048	Rod - equalizer, 5/16"-18 x 6 1/4" (35A10476).....	1
		50A3730 - Nut, hex., 5/16"-18.....	2
		50A4202 - Washer, plain, 11/32" I.D., 11/16" O.D.	1
		50A3781 - Pin, cotter, 1/4" x 1/2".....	1
32	35A190	Clip - cable, equalizer end.....	2
		50A1900 - Nut, hex., 3/8"-16.....	2
33	35A10673	Clip-brake cable, left hand side, 1-29/32" long.....	1
34	35A10674	Clip-brake cable, right hand side, 4-29/32" long.....	1
35	36A9993	Bellcrank - control rod.....	1
		Includes the following part:	
		GM173102 - Fitting, grease, 1-1/8" pipe x 45°.....	2
36	35A7608	Bearing - bellcrank.....	2
37	35A7609	Shaft - bellcrank, 1/2" x 6-3/16".....	1
38	35A6097	Pin - shaft.....	1
39		50A1827 - Ring, snap, shaft retainer.....	1
40	36A10595	Rod - bellcrank to pedal.....	1
41		50A3852 - Pin, rod clevis, 3/8".....	1
		50A3829 - Pin, cotter, 3/32 x 3/4".....	1
42	35A7798	Pin - rod to pedal.....	1
		GM121222 - Pin, cotter, 3/32" x 3/4".....	3



Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 48		Refer to Steering Gear Group Change 35A3580 housing (ref. #1) to 35B10528 (35A3580) Add a single asterisk (*) 35A6254 shaft (ref. #2) 12-1/2" long, 10A19477 seal (ref. #5) and GM102647 nut (ref. #7). Add the following new parts when lift trucks have 35A10528 housing installed.	
2	35A10526	Bushing - housing, part of 35B10528 assembly	1
5	35A10527	Shaft - steering, 13-21/32" long	1
	30A1912	Seal - oil, steering shaft	1
		50A5036 Nut - hex. lock, 5/8"-11, for 35A10527 shaft	1
Page 50		Refer to Steering Gear Group Add chain for MSB 30-35 Chain - 5/8" pitch, steering gear to sprocket, 93 lks., use 15P927, MSB 30-35.....	1
59	-----	New Power Steering Group on pages 6 thru 9 of this supplement.	
Page 54		Refer to Frame and Counterweight Group Add a single asterisk (*) to 36A9798 frame (ref. #1), 36A9853 support (ref. #7), and 35A9746 pan (ref. #21). *NOTE: Used on MSB Series Fork Lift Trucks with lever operated brakes.	
1	36A10530	**Frame - main	1
7	36A10682	**Support - drive train, left hand axle	1
	35A10681	**Ring - support, .074 x 3-1/16" I.D. x 4-15/16" O.D.....	1
21	35A10602	**Pan - belley, main frame, 32-1/2" wide x 22-1/8"	1
		**NOTE: Used on MSB Series Fork Lift Trucks with cable operated brakes.	
Page 56		Refer to Hood, Side Grille and Overhead Guard Group Add asterisk (*) to 36A8901 bar (ref. #2) *NOTE: Used on MSB Series Lift Trucks with bushings in bar, **Bar - angle, hood bumper, 31-1/2" long	1
	35A9702	**NOTE: Used on MSB Series Lift Trucks with bearings on transmission control arms.	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
ge 58-59	35P291	Refer to Oil Lines and Filter Group Change 35A8198 tube (ref. #51) to 35A10597. Change 35A9913 tube (ref. #52) to 35A10578. Change 35A8199 tube (ref. #53) to 35A10596. Change 35A9915 tube (ref. #54) to 35A10579.	1
Page 60		Refer to Hydraulic Pump Group Change 10P2014 plate (ref. #15) to 35P2766 (10P2014). Change 10P3067 ring (ref. #18) to 35P2765 (10P3067). Add note to 35P2065 spring (ref. #27), used on units less power steering. Add new spring for pumps with power steering. Spring - valve, for units with power steering	
27			
Page 66-67		Refer to Duplex Mast Change 30A1681 ring (ref. #10) to 50A578 (30A1681). Add new fitting for vent tube in lift cylinder. Fitting - vent tube, straight, 1/8" -27 N.P.T.....	
43			
Page 78	35A10680	Refer to Triplex Tri-Free Lift Cylinder Group Change 35P1836 body (ref. #33) to 35P2743.	1
Page 83		Refer to Triplex Mast Illustration Change ref. #49 to 50 and 50 to 49 (correction).	
Page 84		Refer to Lift Cylinder Low Free Lift Group Omit 35A8098 body (ref. #22) thru 10A16285 "O" Ring (ref. #29). Add the following:	
24		Washer - restrictor.....	
23	35P2753	Spring - restrictor	1
25	35P1670	Spacer - restrictor.....	1
	35P1671	Fitting - cylinder, spring retainer	1
	35P2326		

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 3		SUPPLEMENT "B" TO REPAIR CATALOG R-2145 (REVISED) Use this supplement in conjunction with Repair Catalog R-2145, MSB Lift Trucks, to obtain correct parts for Ford V-4, "Closed Deck" cylinder engines (engines painted blue). DESTROY PREVIOUS ISSUE DATED 3-69. Refer to Short Block Assembly and Gasket Sets Add new group (Blue Engine)	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
	W.I.D. No.	Ind. Ford No. SHORT BLOCK ASSEMBLY AND GASKET SETS	
	35P3221	464234 Block - assembly, short.....	1
	35P3166	634323 Kit - gaskets and seals, engine overhaul.....	1
		Consists of the following 21 parts:	
	35P3200	444762 Gasket - cylinder head, front.....	1
	35P3199	444761 Gasket - cylinder head, rear.....	1
	35P2386	405468 Gasket - valve rocker arm cover.....	2
	35P2352	405093 Gasket - oil pan.....	1
	35P2354	405164 Gasket - timing gear cover.....	1
	35P2467	405318 Gasket - cover plate.....	1
	35P3218	448717 Gasket - intake manifold to cylinder.....	1
	35P2378	436884 Gasket - water outlet connection.....	1
	35P2500	405400 Seal - gasket, water pump.....	1
	35P2501	405404 Gasket - water pump cover.....	1
	35P2505	425686 Seal - assembly, water pump.....	1
	35P2513	405144 Gasket - oil pump to block.....	1
	35P2524	405831 Gasket - oil pump body to inlet tube flange...	1
	35P2529	405095 Seal - oil pan, rear.....	1
	35P2527	228195 Gasket - oil pan drain plug.....	1
	35P2530	405583 Seal - crankshaft, main bearing cap, rear.....	2
	35P2448	405576 Seal - crankshaft, rear oil.....	1
	35P3197	444631 Gasket - carburetor to intake manifold.....	1
	35P2471	405392 Seal - assembly, balance shaft, front.....	1
	35P2350	406307 Gasket - exhaust pipe to cylinder head.....	2
	35P2356	405218 Gasket - fuel pump mounting.....	1

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FORK LIFT TRUCKS

White Industrial Division
WHITE MOTOR CORPORATION
HOPKINS, MINNESOTA 55343

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 4		Refer to Cylinder Block, Head Assembly and Intake Manifold Change 35P2446 (ref. 33) cap to 10A10401 (Sub) Add new group (Blue Engine)	
	W.I.D. No.	Ind. Ford No.	CYLINDER BLOCK, HEAD ASSEMBLY AND INTAKE MANIFOLD
	-----	444747	Block - assy, cyl , order 35P3221 short block assy
	35P3215	448036	Plug - hex., 36 MM (1.4").....
	35P3174	239455	Gasket - (ring).....
	35P2429	231285	Plug - drain, 1/4"-18.....
	35P2416	425408	Bolt - hex., crankshaft main bearing cap.....
	35P2417	444024	Bearing - balance shaft, front, std.
	35P2418	444025	Bearing - balance shaft, front, .015 U.S.
	35P2419	444027	Bearing - balance shaft, rear, std.
	35P2420	444028	Bearing - balance shaft, rear, .015 U.S.
	35P2421	405588	Bearing - camshaft, front, std.
	35P2422	405589	Bearing - camshaft, front, .015 U.S.
	35P2423	405590	Bearing - camshaft, center, std.
	35P2424	405591	Bearing - camshaft, center, .015 U.S.
	35P2425	405592	Bearing - camshaft, rear, std.
	35P2426	405021	Plug - camshaft opening.....
	35P2427	405086	Plug - balance shaft opening.....
	35P3176	239755	Plug - frost, 39.9 MM (1-1/2" dia.).....
	35P3217	448680	Head - assy., with valves (Gas-LP Gas).....
	35P2428	228355	Plug - frost, cylinder head.....
	35P3214	447219	Dowel - cylinder head to cylinder block.....
	35P2434	228345	Bolt - hex., cylinder head to block M12X73....
	35P2435	230555	Bolt - hex., cylinder head to block M12X73....
	35P3180	240865	Bolt - hex., cylinder head to block M12X80....
	35P3200	444762	*Gasket - cylinder head, front.....
	35P3199	444761	*Gasket - cylinder head, rear.....
	35P3219	448919	Manifold - assembly, intake.....
	35P3218	448717	*Gasket - intake manifold.....
	35P2437	288995	Bolt - hex., intake manifold M8X75.....
	35P3172	232919	Bolt - hex., intake manifold M8X85.....
	35P3179	240789	Stud - intake manifold.....
	35P2439	227675	Bolt - hex., intake manifold M8X107.....
	35P2440	206036	Washer - flat.....
	35P3178	240779	Nut - hex.
	35P2386	405468	*Gasket - cover, valve rocker arm.....
	35P3222	464610	Cover - assembly, valve rocker arm, front....
	35P3201	444815	Cover - assembly, valve rocker arm, rear.....
	35P2444	202716	Bolt - hex., valve rocker arm.....
	35P2445	228335	Washer - lock.....
	10A10401	-----	Cap - assembly, oil filler.....
	35P2633	405235	Baffle - oil.....
			*NOTE: In kit 35P3166 Engine Gasket Set.

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 6		Refer to Crankshaft, Main Bearings, Camshaft Add the following:	
	35P3102	C7JZ-6023-A Bracket - timing.....	1
	35P3103	C7JZ-2887-A Spacer - timing, .70 thick.....	1
	35P3104	200855 Bolt - hex. hd., M8-40.....	1
		Add new group (Blue Engine)	
	W.I.D. No.	Ind. Ford No. CRANKSHAFT, MAIN BEARINGS, CAMSHAFT, BALANCE SHAFT, TIMING GEARS AND TIMING GEAR COVER	
	35P2447	405645 Crankshaft - engine.....	1
	35P2448	405576 *Seal - oil, crankshaft rear.....	1
	35R123	448139 Bearing - crankshaft, center, std., (2 halves)	1
	35R126	448126 Bearing - crankshaft, front & rear, std., (2 halves).....	2
	35P2455	405889 Shaft - balance, engine.....	1
	35P2456	405823 Camshaft - engine.....	1
	35P2457	425764 Spacer - camshaft gear, std., blue.....	1
	35P2458	425765 Spacer - camshaft gear, .0005, red.....	1
	35P2459	425762 Plate - camshaft thrust.....	1
	35P2469	202746 Bolt - hex., thrust plate.....	2
	35P2460	260797 Washer - lock.....	2
	35P2461	226395 Key - Woodruff, timing gears, crankshaft and camshaft.....	2
	35P2462	226405 Key - Woodruff, gear and pulley, balance shaft..	2
	35P2463	436595 Gears - timing, (crankshaft, camshaft & balance shaft).....	1
		Includes the following part:	
	35P3226	635376 Gear - balance shaft (cast iron).....	1
	35P2465	225635 Bolt - hex., timing gears.....	3
	35P2466	230145 Washer - flat.....	3
	35P2467	405318 *Gasket - intermediate plate.....	1
	35P3227	710167 Plate - intermediate.....	1
	35P3235	760777 Bolt - hex., intermediate plate M8X15.....	2
	35P2460	760797 Washer - lock.....	2
	35P2354	405164 *Gasket - cover, timing gears.....	1
	35P2470	425624 Cover - timing gear.....	1
	35P2471	405392 *Seal - balance shaft.....	1
	35P2472	202836 Bolt - hex., timing gear cover.....	9
		*NOTE: In kit 35P3166 Engine Gasket Set.	
	35P2507	425939 Pulley - balance shaft.....	1
	35P3102	C7JZ-6023-A Bracket - timing.....	1
	35P3103	C7JZ-2887-A Spacer - .70 thick.....	1
	35P3104	200855 Bolt - hex., M8X40.....	1

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 8		Refer to Piston and Connecting Rod. Add new group (Blue Engine)	
	W.I.D. No.	Ind. Ford No.	PISTON AND CONNECTING ROD
	35P3198	444716	Piston - assembly, with connecting rod, std. ... 4
	35R129	405654	Bearing - connecting rod, std., half..... 8
	35R130	405656	Bearing - connecting rods, half, .0005 U.S. ... 8
	35R131	405660	Bearing - connecting rods, half, .0098 (.25MM) US 8
	35P2408	405406	Bolt - connecting rods..... 8
	35P2409	228439	Nut - bolt, connecting rod bolt..... 8
	35P3231	710202	Kit - piston ring (set for 4 pistons), std. ... 1
Page 9		Refer to Governor, Carburetor, Muffler & Exhaust Pipes. Change 35P2296 Gasket to 10A21533 (substitution). Add to description 35P2389 *Gasket: Used on Silver Engines. Add the following: 444631 *Gasket - adaptor to intake manifold (used on Blue Engines)..... Add to description 35P2557 Washer: Used on Silver Engines. After 35A9910 Clamp, add the following: 50A3730 - Nut, 5/16"..... Change *NOTE to read: In kits 35P2413 & 35P3166 Engine Gasket Sets.	8 8
	35P3197		

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 10		Refer to Cylinder Heads, Valves and Rocker Arms. Change 35P2493 (ref. 20) Bolt to 35P3175 (same as 35P2493). Add new group (Blue Engine).	
	W.I.D. No.	Ind. Ford No. CYLINDER HEADS, VALVES AND ROCKER ARMS	
	35P3217	448680 Head - assembly, Gasoline - LP Gas.....	2
		Includes the following 8 parts:	
	35P2475	405429 Valve - intake, std.	4
	35P2476	405430 Valve - intake, .0078 (0.20 MM) O.S.	4
	35P3195	448894 Valve - exhaust, std.	4
	35P3196	448895 Valve - exhaust, .0078 (0.20 MM) O.S.	4
	35P3202	444927 Seal - valve stem oil.....	8
	35P3234	750403 Spring - valve.....	8
	35P3203	447024 Retainer - valve spring.....	8
	35P2482	559505 Lock - valve spring retainer.....	16
	35P2473	405223 Tappet - valve.....	8
	35P3185	425494 Rod - push, valves.....	8
	35P3233	710263 Shaft - valve rocker arm.....	2
	35P2484	405230 Arm - assembly, valve rocker.....	8
	35P2485	405233 Support - shaft, valve rocker arm, oil inlet.....	2
	35P3204	447066 Spring - valve rocker arm.....	2
	35P2487	405234 Support - shaft, valve rocker arm, oil inlet.....	2
	35P3212	447094 Washer - shaft, valve rocker arms.....	4
	35P2489	226555 Pin - roll, valve rocker arms.....	4
	35P2490	226985 Plug - shaft, valve rocker arm.....	4
	35P2491	541824 Screw - adjusting, valve clearance.....	4
	35P2492	405237 Cover - valve rocker arm support.....	2
	35P3175	239645 Bolt - hex., cover, valve rocker arms.....	4
	35P2494	225225 Washer - flat, support bolt.....	2

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 12		Refer to Oil Pump and Engine Oil Pan. Add to description 35P2525 (ref. 17) Bolt: Silver Engine only.	
Page 14		Refer to Fuel Filter and Fuel Pump. After 35P2365 (ref. 4) Tube add the following:	
	35P3164	++97327-S8 Clamp - hose.....	2
6	35P3216	++448299 Pump - assembly, fuel.....	1
		Add to description 35P2543 (ref. 12) +Gasket, Silver Engine	
		After 35P2544 (ref. 13) Bolt add the following:	
13	35P3177	++239785 Bolt - hex., strainer cover & gasket assembly.....	1
14	35P3225	++634366 *Diaphragm assembly.....	1
		Change 35P2356 (ref.26) **Gasket to 35A12962 (same as 35P2356)	
		After 35P2536 (ref. 27) *Kit add the following:	
27	35P3230	++710189 *Kit - fuel pump repair.....	1
		Change 35P2355 (ref. 30) **Cover to 35A12961 (same as 35P2355) .	
		++NOTE: Only used on Blue (new style) Engine.	
Page 16		Refer to Water Pump. After 35P2506 (ref. 4) *Impeller add the following:	
4	35P3213	447103 *Impeller - water pump.....	1
Page 18		Refer to Engine Oil Filter. Change 35A1295 (ref. 4) Hose to 35A9128 (Sub.) Add new group (Blue Engine).	
13	10A16904	Air Cleaner - gasoline.....	1
13	36A14039	Air Cleaner - LPG (late engines).....	1
		Each includes the following 3 parts:	
14	10P1872	Base - assembly (gasoline-not available for LP Gas).....	1
15	10P1873	Filter - air cleaner.....	1
16	10P1874	Cover - filter.....	1
		GMI20240 - Nut, wing, No. 10-32.....	1
	10A8042	Clamp - air cleaner, 2-1/8", gasoline.....	1
		50A3657 - Bolt, hex., 5/16"-18 x 1-1/4".....	1
		50A3730 - Nut, hex., 5/16"-18.....	1
17	36A9861	Adapter - air cleaner, gasoline (early engines).....	1
17	35A14037	Adapter - air cleaner, gasoline (late engines).....	1
18	36A9928	Adapter - air cleaner, LP Gas (Early Engines).....	1
19	35A9950	Bolt - hex., 6M (.23) x 1.00 Threads x 60MM (2.362).....	1
20	35A9563	Band - adapter, rubber, 2" O.D. x 1" long, gasoline.....	2
	35A14038	Hose - carb. to air cleaner, 2-1/8" I.D. x 1-5/8" long, LPG....	1
		50A4290 Clamp - hose, 2-3/8", LPG.....	2
21	35A9926	Hose - crankcase, 3/4" I.D. x 17-1/2" long (early engines)....	1
		50A4298 - Clamp, hose, 1" (early engines).....	2
		50A5908 - Hose, adapter to valve cover, 1/2" x 5" (later engines).....	1
		50A4306 - Clamp, hose, 3/4".....	2
22	35P2371	Tube - assembly, mounts in crankcase (early engines).....	1

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 20		Refer to Starter. After 35P2608 (ref. 4) Switch, add the following:	
4	35P3229	*710173 Switch - assembly, solenoid.....	1
5	35P2460	*206436 Washer - lock.....	1
14	35P3191	After 35P2616 (ref. 14) Bushing, add the following:	
15	35P3228	*436606 Bushing - cover, drive end.....	1
		*710172 Drive - assembly, starting motor.....	1
		*NOTE: Used on Blue (new style) Engine.	
Page 22		Refer to Distributor Assembly. After 35P2397 (ref. 19) Cap, add the following: Includes Brush Assembly, 35P2632. Add new group (Blue Engine).	
	W.I.D. No.	Ind. Ford No. DISTRIBUTOR ASSEMBLY AND MOUNTING PARTS	
	35P3205	447067 Distributor - assembly..... Includes the following 15 parts:	1
	35P3210	447085 Bushing - distributor drive shaft.....	1
	35P2399	231275 Pin - roll.....	1
	35P2622	548362 Ring - locking, weights.....	2
	35P3189	436515 Spring - plate, contact breaker.....	1
	35P3190	436516 Spring - distributor weights.....	1
	35P2625	548363 Ring - cam locking.....	1
	35P3209	447084 Plate - assembly, distributor breaker.....	1
	35P3220	464163 Set - points, distributor contact.....	1
	35P3207	447077 Clamp - distributor cap.....	2
	35P3211	447088 Unit - assembly, vacuum.....	1
	35P3206	447071 Condenser - distributor.....	1
	35P2396	425981 Rotor - assembly.....	1
	35P2632	694577 Brush - assembly.....	1
	35P3232	710254 Cap - distributor.....	1
	35P2398	405532 Gear - distributor drive.....	1
	35P2401	425587 Clamp - distributor.....	1
	35P2402	229366 Bolt - clamp, with lock washer.....	1
	-----	----- Hose - vacuum line to distributor, 11" long...	1
Page 24		Refer to Radiator, Fan, Thermostat Housing. Change 50A4297 (ref. 20) Clamp to 50A4291 and description to: Clamp, hose, 1-1/4".	
Page 26		Refer to Carburetor - Gasoline Engine. After 35P2593 (ref. 35) Housing, add the following:	
35	35P2387	425103 Housing - throttle plate (Blue Engine).....	1
	35P2610	204736 Nut - hex., M8, DIN 934.....	2
49	35P3236	After 35P2604 (ref. 49) *Gasket, add the following: 425221 *Gasket - body to housing.....	1

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 28		Refer to Wiring Harness, Alternator, Horn. Change description 35A9855 (ref. 1) Harness to: wiring, with 2 - 14 amp. and 2 - 30 amp. fuses. Change 35P2634 (ref. 2) coil to 10A16817 & description to: Coil - 12V., neg. ground, Delco-Remy #1115068 (35P2634) Change 35P2635 (ref. 3) Wire to 10A10119 & description to: Wire - coil, high tension, with nipples (35P2635) Add the following: 50A4329 - Nipple, wire, distributor end, also coil end with Ford coil..... 1 50A4330 - Nipple, wire, coil end, Delco-Remy coil (Silver and Blue Engine)..... 1 Change 35A9931 (ref. 5) Wire to 35A4770 & description to: Wire - coil to distributor W/Ford gauges & qty. from 2 to.... 1 Add to description 35P2638 (ref. 6) used on Silver Engine Strap: used with Ford coil. Add to description 50A3646 (ref. 6) Bolt: on Silver Engine used with Ford coil. Add to description 50A1898 (ref. 6) Nut: on Silver Engine, used with Ford coil. Add to description 50A3653 (ref. 6) Bolt: used with Ford coil and quantity from 1 to..... 2 Add to description 50A4202 (ref. 6) Washer: used with Ford coil and quantity from 1 to..... 2 Add to description 50A4250 (ref. 6) Washer: used with Ford coil and quantity from 1 to..... 2 Change 50A2755 (ref. 18) Screw to 50A1676 and description to: 3/8"-16 x 5/8" After 35P2636 (ref. 4) Nipple, add the following: 50A2349 - Nipple, coil wire, distributor end (Blue Engine).. 4 After 35P2742 (ref. 23) Spark Plug, add the following: Spark Plug - engine (Auto Lite #AG22) (Blue Engine)..... 4	
23	35P3208		
Page 30		Refer to Throttle Controls. Add * to 35A9705 (ref. 6) Rod Add the following: **Rod - throttle, lower, 3/16" x 8-1/4"..... 1 Add * to 35A9706 (ref. 7) Rod Add the following: **Rod - throttle, upper, 3/16" x 10-3/8", gasoline units..... 1 Change FT2451 (ref. 12) Strap to 10A14445 (sub) and add to description: 3/4" x 5-1/4" (FT2451) Add the following: *NOTE: Used on MSB Lift Trucks thru ser. #34100375 incl. **NOTE: Used on MSB LIFT Trucks ser. #34100376 & after.	
6	35A11714		
7	35A11715		
Page 31		Refer to Instrument Panel & Instruments. Change 35A8590 (ref. 2) Hour Meter to 35A11087 (sub.) Change 35A7738 (ref. 5) Gauge to 35A11008 (sub.) Change 35A4770 (ref. 6) Wire to 35A8195 (sub.) & change description to read: Wire - hourmeter to ground Change 35A7737 (ref. 9) **Gauge to 35A11006 (sub.) After 50A4555 (ref. 12) **Bushing, add the following: **50A2481 - Elbow, street, 1/8"-90°..... 1	
Page 32		Refer to Fuel Tank - Gasoline. Correct quantity 50A1900 (ref. 3) Nut from 10 to..... 5 Change 30A1541 (ref. 18) Washer to 10A25005 (sub.)	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 34	35P3134	Refer to LP Gas Equipment. Change *GM177923 (ref. 4) Pin to 50A3782 (sub.) After 35P1774 (ref. 5) *Clamp, add the following: Includes the following part: Toggle assembly with yoke, pin & strap..... Change 35P516 (ref. 5) **Strap to 35A12206 (same as)	1
Page 35	35A4959	Refer to LP Gas Equipment (Cont'd) After 35A10155 (ref. 32) Hose, add the following: 50A4386 - Elbow, hose to coupling, 1/4" NPT x 3/8"..... Change 35P519 (ref. 35) Coupling to 35A9482 (same as) Add the following: Latch - retaining..... 50A3660 - Bolt, hex., 3/8"-16 x 1"..... 50A1900 - Nut, hex., 3/8"-16..... Change 35P517 (ref. 36) Coupling to 35A9481 (same as) Change 35P515 (ref. 39) Valve to 35A9480 (same as) Change 35P525 (ref. 40) Switch to 35A9483 (same as) After 10A2640 (ref. 40) Wire, add the following: 50A2486 - Coupling, 3/8"..... Change quantity 35P1310 (ref. 48) Clamp from 1 to..... Add the following: Oil - LP Gas Engine (case of 24 quarts).....	1 1 2 2 1 2 1
Page 36	35P2358	Refer to Transmission Case. Change 50A4445 (ref. 1) Plug to 50A5724 (sub.) & add to description: external hex. After 50A3671 (ref. 15) Bolt, add the following: Pin - dowel..... Change quantity 35A9946 (ref. 16) Bolt from 2 to..... Add the following:	2 6
	35A11713	Bolt - hex., M10 X 1.5 x 40MM long, grade 5..... Change quantity 35A9945 (ref. 19) Nut from 4 to..... and description to: M10 x 1.5 x 40MM	2 2
Page 42		Refer to Transmission Control Valve & Controls. Change 50A4445 (ref. 2) Plug to 50A5724 (sub.) & add to description: external hex. Change 35A1250 (ref. 10) Valve to 35A12245 (sub.) Refer to Brakes (Self-Adjusting) & Linkage. See Sup. "A", page 12 Change 35A7798 (ref. 20) Shaft to 35A11636.	
Page 50		Refer to Steering Gear (Cont'd) Change quantity GM109365 (ref. 63) Fitting from 2 to..... Refer to Power Steering Motor, Valve & Lines. See Sup. "A", page 6. Change 35A10499 (ref. 24) Bracket to 36A10499. Change 50A3680 (ref. 24) Bolt to 50A1164 (sub.)	1
Page 52		Refer to Steering Axle & Wheels. Change F399 (ref. 16) Bearing to 35A342 (same as)	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 54	10P1591	Refer to Frame & Counterweight. After 36A9798 (ref. 1) *Frame, add the following: 50A954 - Plug, pipe, sump, 1/8", used with simplex upright.	1
Page 56		Refer to Hood, Side Grille & Overhead Guard. Change 50A3917 (ref. 5) Screw to 50A4714 (sub.) After 50A3730 (ref. 17) Nut, add the following: 50A1900 - Nut, 3/8"-16.....	2
Page 60		Refer to Hydraulic Pump. Add to description 35P2063 (ref. 22) Piston: Without power steering Add the following: Piston - with power steering.....	1
22		Add to description 35P2064 (ref. 26) Valve: relief Add to description 35P2065 (ref. 27): less power steering Add the following:	
Page 62		Refer to Mast Control Levers & Valve. Change 35P1034 (ref. 26) Plug to 35A12341 (sub.) Add the following: Seal - quad ring, 1-3/8" I.D., for 35A12341..... Add to description 15P747 (ref. 27) Gasket: use with 35P1034 & 35A3118	1
Page 66		Refer to Duplex Mast. Change GM191758 (ref. 1) Fitting to 50A4629 (sub.) & quantity from 4 to..... Delete all ref. 7, ref. 8, ref. 9 Add the following: Roller - assembly, with bearing, replaces 35A3691 roller, 35A3687 bearing, 50A1677 Snap Ring..... Change GM102592 (ref. 24) Set Screw to GM102582 (correction)	2 10
Page 67		Refer to Duplex Mast (Cont'd) Change 35A7070 (ref. 44) Strap to 35A11249 (sub.) and description to: Clamp - vent hose, 5-1/4" Delete GM133073 (ref. 44) Screw	
Page 70		Refer to Simplex Mast- Group I Delete ref. 9, ref. 10, ref. 11 Add the following: Roller - assembly, with bearing, replaces 35A3691 roller, 35A3687 - bearing, 50A1677 - Snap Ring..... Change ----- (ref. 29) Rod to 35A4321 & delete from description: see chart on page 75.	10
Page 71	35A12418	Refer to Simplex Mast (Cont'd) Add * to ref. 48, ref. 49, ref. 50, ref. 51 & 36A9959 Add the following: *NOTE: Used on MSB Lift Trucks thru Ser. # 34100340.	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 72		Refer to Simplex Lift Cylinder.	
		Add the following:	
	35A11387	Spacer - oil restrictor.....	1
	35A11388	Washer - perforated, oil restrictor.....	1
	35A11389	Spring - oil restrictor.....	1
	35A11390	Body - restrictor.....	1
Page 75		50A4422 - Elbow, lift cylinder, 7/8"-14, 45°.....	1
	10A16285	O-Ring - connector.....	1
		Refer to Variable Parts Chart for Simplex Mast.	
		Delete entire Cylinder Assy. and add the following:	
	35A9767		
	35A9768		
	35A9769		
	35A9770		
	35A9771		
	35A9772		
	35A9774		
	35A9775		
	35A9776		
	35A9777		
	35A9778		
	35A9779		
	35A9780		
	35A9781		
	35A9782		
	35A9783		
	35A9784		
	35A9785		
	35A9786		
	35A9787		
	35A9788		
	35A9789		
	35A9790		
	35A9791		
	35A9792		
	35A9793		
	35A9794		
	35A9795		
	35A9799		
	35A9800		
	35A9801		
	35A9802		
	35A9803		
	35A9804		
	35A9805		
	35A9806		
	35A9807		
	35A9808		

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 76		Refer to Upright for Triplex - Group I. Change 35P1838 (ref. 5) Plug to 35P2220 (sub.). Change 35P2024 (ref. 5A) Plug to 35P3122. Change 35P1845 (ref. 13) Pin to 35P3133 & add to description: with holes for cotter pins (35P1845). Add to description 35P1844 (ref. 14) Retainer: for 35P1845 pin Add the following:	
14	35P3118	Pin - cotter, for 35P3133 pin.....	8
	35P3123	After 35P1852 (ref. 26) Latch, add the following: Stop Block - center channel.....	2
	35P1863	50A3694 - Bolt, hex., 5/8"-11 x 1".....	2
	35P3121	Shim - stop block..... Washer - thrust, sheave.....	AR 8

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		Add new group for MSB 30 & 35.	
		UPRIGHT FOR TRIPLEX TRI-FREE LIFT (Cascade Viewmast) For MSB 30 and 35	
1	-----	*Channel - outer assembly.....	1
2	-----	*Channel - center assembly.....	1
3	-----	*Channel - inner assembly.....	1
4	35A4046	*NOTE: Order above parts by M.F.H. and O.A.H.L. Bushing - channel mounting.....	2
5	35P2220	50A1268 - Screw, bearing cap, 5/8"-11 x 2-1/2".....	4
5A	35P3122	Plug - channel, outer and inner.....	14
6	35P1839	Plug - channel, center.....	12
7	35P1840	Shim - bearing.....	A.R.
7A	35P2025	Bearing - channels, outer and inner.....	4
	-----	Bearing - channels, center.....	4
8	35P1841	Bolt - hex., 3/8"-24 x 1/2".....	16
9	-----	Trip.....	1
10	35P1830	Bolt - hex., 3/8"-24 x 1".....	2
11	-----	Pad.....	1
	35P1863	Bolt - hex., 1/4"-28 x 3/8".....	2
12	35P2022	Shim - pad.....	A.R.
13	35P3133	Rod - lift.....	2
14	35P3118	Pin - rod and anchor.....	4
15	35P2023	Pin - cotter.....	8
17		Anchor - chain, outer channel.....	2
18		GM114498 - Nut, hex. jam, 5/8"-18.....	2
19	35P1849	50A1011 - Nut, hex., (Nylock) 5/8"-18.....	2
19A	35P2036	Keeper - pins, center channel.....	1
20	-----	Keeper - pins, inner channel.....	1
21	35P1830	Bolt - hex., 3/8"-24 x 1/2".....	2
	35P1863	Pad - center channel.....	1
22	-----	Shim - pad.....	1
	35P3123	Bolt - hex., 1/4"-28 x 3/8".....	2
23	35P1850	Block - stop, on intermediate channel.....	2
23A	35P2035	50A3694 - Bolt, hex., 5/8"-11 x 1".....	2
24	-----	Pin - latch, center channel.....	2
25	35P1851	Pin - latch, inner channel.....	1
25A	35P2037	Bolt - hex., socket, 5/16"-18 x 1".....	1
26	35P1852	Spring - latch, center channel.....	2
27	35P2038	Spring - latch, inner channel.....	1
27A	35P2039	Latch - lift, center channel.....	2
28	35P2026	Latch - lift, inner channel, L.H.	1
29	35P2028	Latch - lift, inner channel, R.H.	1
30	-----	Sheave - chain, lower.....	2
	35P3121	Sheave - chain, upper.....	2
31	35P2027	Fitting - grease, straight, 1/4"-28.....	4
32		Washer - thrust, sheave.....	8
33	-----	Shaft - sheaves.....	4
34	-----	50A4115 - Screw, set socket, jam, 1/4"-20 x 3/8".....	4
		Set Screw - hex. socket, 5/16"-24 x 5/8".....	4
		Chain - lift, 5/8" pitch BL534	2

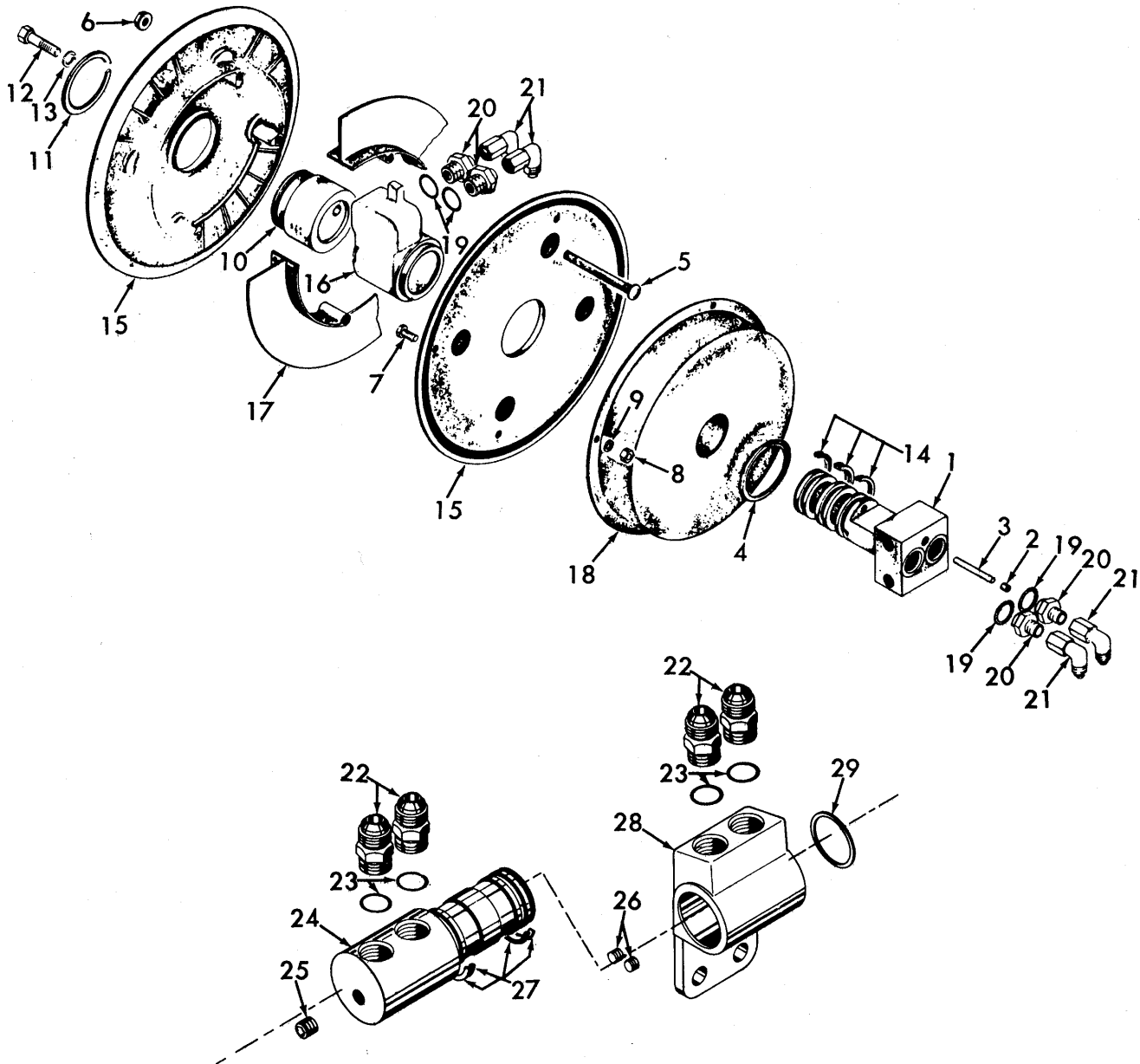
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 78		Refer to Triplex Tri-Free Lift Cylinder - Group II.	
		After 35P2047 (ref. 6) Plunger, add the following:	
	35P2704	Valve - relief.....	1
	35P2705	"O" Ring - valve.....	1
	35P2706	Washer - valve.....	1
	35P2707	Ring - snap, valve retainer.....	1
		Change 35P1210 (ref. 13) ** Ring to 35P2882.	
		Change 35P1216 (ref. 22) ** Ring to 35P2646 (sub.).	
		Change 35P1837 (ref. 36) Washer to 35P2990 (correction).	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		Add new group for MSB 30 & 35.	
		TRIPLEX TRI-FREE LIFT CYLINDER (Cascade Viewmast) 4" Diameter, for MSB 30 and 35	
1	-----	*Cylinder - assembly, complete.....	1
		**NOTE: Order above part by M.F.H. and O.A.H.L.	
		Each includes the following 37 parts:	
2	35P3148	Shell - cylinder, outer, for 70" O.A.H.L. mast.....	1
2	35P3149	Shell - cylinder, outer, for 76" O.A.H.L. mast.....	1
2	35P3150	Shell - cylinder, outer, for 82" O.A.H.L. mast.....	1
3	35P833	Screw - button head, cylinder shell.....	1
4	35P832	**Seal - button head screw.....	1
	35P3157	Fitting - shell vent, 5/16" x 1/8" N.P.T.	1
5	35P3151	Tube - cylinder, intermediate, for 70" O.A.H.L. mast.....	1
5	35P3152	Tube - cylinder, intermediate, for 76" O.A.H.L. mast.....	1
5	35P3153	Tube - cylinder, intermediate, for 82" O.A.H.L. mast.....	1
6	35P3154	Plunger - cylinder, inner, for 70" O.A.H.L. mast.....	1
6	35P3155	Plunger - cylinder, inner, for 76" O.A.H.L. mast.....	1
6	35P3156	Plunger - cylinder, inner, for 82" O.A.H.L. mast.....	1
		Includes the following 4 parts:	
	35P2704	Valve - relief.....	1
	35P2705	"O" Ring - valve.....	1
	35P2706	Washer - valve.....	1
	35P2707	Ring - snap, valve retainer.....	1
7	35P3144	**Ring - wiper, intermediate tube.....	1
8	35P3143	**Spring - garter, wiper ring.....	1
9	35P3142	Retainer - wiper ring.....	1
10	10A7846	**"O" Ring - retainer.....	1
14	35P3141	**Packing - tube bushing.....	1
15	35P2066	**Ring - wiper, plunger.....	1
16	35P2067	**Spring - garter, wiper ring.....	1
17	35P2157	Retainer - plunger wiper ring.....	1
18	35P2068	**"O" Ring - wiper retainer.....	1
19	35P2155	Piston.....	1
20	35P2069	**Packing - piston.....	1
21	35P2070	**"O" Ring - piston, inner.....	1
22	35P3158	**Ring - back-up, "O" Ring.....	1
23	35P2156	Ring - snap, piston retainer.....	1
24	35P3146	Bearing - intermediate tube.....	1
25	35P3145	Ring - bearing retainer.....	1
26	35P3147	Ring - snap, bearing.....	1
27	35P3137	Head - cylinder.....	1
28	10A13793	**"O" Ring - cylinder head, lower.....	1
29	35P3138	**Ring - back-up, head, "O" ring.....	1
30	35P3139	**Ring - cylinder, head, upper (nylon).....	1
	35P3159	Repair Kit -for cylinder.....	1
		NOTE: Repair Kit consists of the above items identified by a double asterisk ().	
31	35P3140	Nut - lock, cylinder head.....	1
33	35P2743	Body - restrictor.....	1
34	10A16285	"O" Ring - body.....	1
35	35A4932	Spring - oil restrictor.....	1
36	35P2990	Washer - perforated, oil restrictor.....	1
37	35P148	Spacer - oil restrictor.....	1

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 80		Refer to Cross Head for Upright. Add new group - for MSB 30 & 35.	
		CROSS HEAD FOR UPRIGHT (Cascade Viewmast) For MSB 30 and 35	
1	35P2049	Cross Head - upright.....	1
2	-----	Bolt - socket head, 1/4"-20 x 1-1/4".....	2
3	35P1830	Pad - head.....	1
	35P1863	Shim - pad.....	1
4	35P2728	Bolt - flat head, hex. socket, 1/4"-28 x 3/8".....	2
5	35P2026	Sheave - cross head.....	2
	35P3160	Washer - thrust, sheave.....	4
6	35P2027	Shaft - sheave.....	2
7	-----	Socket Jam Screw - 1/4"-20.....	2
8	-----	Set Screw - cup point, hex. socket, 1/4"-20 x 3/8".....	2
9	-----	Fitting - grease, straight, 1/4"-28.....	2
10	35P2052	Shoe - head.....	2
11	-----	Bolt - hex. socket, (nylock), 5/16"-24 N.F. x 3/4".....	2
12	-----	Bolt - hex. socket, 5/8"-11 x 1".....	2
13	35P2053	Shim - shoe.....	A.R.
		ADAPTING PARTS FOR TRIPLEX TRI-FREE LIFT (Cascade Viewmast) for MSB 20 and 25	
	35A4046	Bushing - axle.....	2
		50A4629 - Fitting, grease, 1/8" straight.....	2
	35A7349	Tube - vent, U-shaped, 1/4" O.D. x 3/8" O.D. tubing.....	1
	35A7333	Hose - vent, 1/4" I.D. x 33" long.....	1
	35A7307	Elbow - vent hose, 90°, 1/4"-18 N.P.T.	1
		50A3573 - Clamp, hose, 7/16".....	2

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 81		Refer to Carriage for Triplex Tri-Free Lift. Add new group for MSB 30 & 35 CARRIAGE FOR TRIPLEX TRI-FREE LIFT (Cascade Viewmast) For MSB 30 and 35	
1	-----	Carriage - assembly, order from Mobilift Sales Department .. Includes the following parts:	1
2	35P2054	Wear Pad - carriage.....	2
	35P2221	Keeper.....	2
	35P2732	Bolt - hex.	4
3	-----	Bolt - hex. socket, flat head, 1/4"-28 x 1/2".....	4
4	35P2055	Shim - wear pad.....	A.R.
5	35P1865	Roller - assembly, carriage guides.....	4
6	-----	Bolt - hex. socket, 1/2"-13 x 1-1/2".....	4
7	35P1866	Nut - bolt, roller support, 1/2"-13.....	4
8	-----	Screw - adjusting, roller assembly, half dog, nylock, 5/8"-11 x 1".....	4
	-----	Screw - hex. socket jam, 5/8"-11.....	4
	35P3114	Roller - carriage.....	4
	35P3115	Bushing - roller.....	4
		50A2846 - Roll pin, roller.....	4
	35P3116	Pin - roller.....	4
	35P3117	Washer - thrust, roller.....	8
9	35P1868	Roller - carriage.....	4
10	35P1867	Sleeve - roller.....	4
11	35P1854	Washer - roller, inner.....	4
12	-----	Fitting - grease, straight, 1/4"-28.....	5
13	35P1869	Plug - roller, outer.....	4
14	35P1864	Screw, hex. socket, 5/16"-18 x 1".....	2
15	35P2056	Bar - yoke.....	1
16	35P2057	Yoke - carriage.....	1
	-----	Bolt - hex., 3/8"-24 N.F. x 2".....	2
Page 82		Refer to Triplex Mast Low-Free (Knickerbocker) Group I. After ----- (ref. 47) Carriage, add the following: Includes the following 5 parts:	
Page 84		Refer to Lift Cylinder Low-Free (Knickerbocker) Group II. Change description 35P2344 (ref. 1) *Cylinder to read: *Cylinder - with base, assembly Change 35A7070 (ref. 20) Strap to read: Clamp - vent hose (sub.) Delete all GM133056 (ref. 20) Screw. Delete all GM120375 (ref. 20) Nut.	
20	35A11249		
Page 86		Refer to Sheave Take-Up for Hoses. Delete all of page 86 (Not for Sale).	

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 88		Refer to Hose Reels. Delete all and add new group.	
		HOSE REELS	
	-----	Reel - hose, assembly, R.H., single.....	1
	-----	Reel - hose, assembly, L.H., single.....	1
	-----	Reel - hose, assembly, R.H., double.....	1
	-----	Reel - hose, assembly, L.H., double.....	1
	-----	Reel - hose, assembly, R.H., triple.....	1
	-----	Reel - hose, assembly, L.H., triple.....	1
		Each includes the following 14 parts:	
	-----	Screw, cap, socket head, 1/2"-13 x 3-1/2".....	2
1	35P2887	Shaft - reel.....	1
2	35P2991	Set Screw - hex. socket, flat point, 5/16"-18 x 1/4".....	1
3	35P3071	Pin - shaft, single.....	1
3	35P2890	Pin - shaft, double.....	1
4	35P1644	Ring - back-up.....	1
5	35P3069	Bolt - flange, single.....	4
5	35P2891	Bolt - flange, double.....	4
	35P3168	Bolt - flange, triple.....	4
6	35P2892	Nut - bolt.....	4
7		50A3645 - Bolt, hex., 1/4"-20 x 5/8".....	4
8		50A1898 - Nut, hex., 1/4"-20.....	4
9		50A4228 - Washer, lock, 1/4".....	1
10	35P2982	Spacer - reel, double.....	1
	35P3169	Spacer - reel, triple.....	1
11	35P1184	Ring - snap, flange retainer (same as 35P3070).....	1
11	35P2989	Ring - snap, flange retainer (Spirolox RST212).....	1
12		50A3667 - Bolt, hex., 3/8"-16 x 1-1/4".....	1
13		50A4222 - Washer, lock, 3/8".....	1
14	35P2983	Kit - seals and back-up rings.....	1
15	35P2984	Flange - reel.....	2
16	35P2985	Hub - reel.....	1
17	35P2986	Divider - reel, double.....	1
	35P3170	Divider - reel, triple.....	1
18	35P2987	Spring - assembly, R.H.	1
18	35P2988	Spring - assembly, L.H.	1
19	10A16285	"O" Ring - fitting.....	4
20	35P3061	Connector - straight, 7/8"-14 to 9/16"-18, 37°.....	4
21		50A4605 - Elbow, 90°, with swivel nut.....	4
	35A12764	Block - junction, right and left hand reel.....	1
		Each includes the following 3 parts:	
24	35P2880	Shaft - junction block.....	1
25		50A4445 - Plug, hex. socket, 1/8"-27.....	1
26		50A4448 - Plug, hex. socket, 3/8"-16.....	2
27	35P2882	Kit - seals, includes seals and back-spring.....	1
28	35P2884	Body - junction block.....	1
29		50A5657 - Ring, snap (Spirolox RS137).....	1
22	35P3061	Connector - straight, 7/8"-14 to 9/16"-18, 37°.....	4
		50A5921 - Connector, 7/8"-14 to 9/16"-18, 37°.....	2
23	10A16285	"O" Ring - connector.....	4
	35A10952	Block - mounting (Simplex and Duplex Mast).....	1
	35A11091	Block - mounting (Triplex Mast, Cascade).....	1
	35A11094	Block - mounting (Triplex Mast, Knickerbocker).....	1
	35P2920	Hose - reels, 1 ft. of hose, 5/16" I.D. (Order length as needed).	-
	35P2909	Hose - 50 feet of 5/16" I.D.	-
		50A1722 - Fitting, hose, reusable.....	8
		50A749 - Strap, hose, rubber.....	3
		QUICK DISCONNECT COUPLERS	
	M1085	Body - quick disconnect.....	2
	M1086	Nose Piece - quick disconnect.....	2
	35A12205	Elbow - street, 1/4"-18 x 90°.....	2
	35A10616	Connector - coupler, 9/16"-18 JIC x 1/4" NPTF.....	2
	10A16405	"O" Ring - connector.....	2



Ref. No.	Part No.	DESCRIPTION	No. Pcs.
Page 90		Refer to Auxiliary Valves. Change GM180134 (ref. 1) Bolt to 50A1925 (sub.). Change GM120377 (ref. 1) Nut to 50A1900 (sub.). Change GM180122 (ref. 24) Bolt to 50A3666 (sub.). Change GM180124 (ref. 25) Bolt to 50A3667 (sub.). Change GM120377 (ref. 25) Nut to 50A1900 (sub.). Change GM120394 (ref. 25) Washer to 50A4210 (sub.).	
Page 91		Refer to Auxiliary Valves (Cont'd). Change 35A3120 (ref. 42) Sleeve to 35A11870 (sub.) and description to read: Bushing. Add the following: Seal - quad ring, for 35A11870, 1-3/8" I.D. 1-1 Add to description 35A3117 (ref. 43) Gasket: Copper (for 35A3120 only) After 50A2763 (ref. 48) Elbow, add the following: Angle - clip..... 1-1 Clip - tubes..... 1-1 50A3658 - Bolt, hex., 5/16" x 1-1/2"..... 1-1 50A3653 - Bolt, hex., 5/16" x 1/2"..... 1-2 50A3730 - Nut, hex., 5/16"-18..... 1-1	
	35A11871		
	35A8112		
	35A8113		

MSB SERIES FORK LIFT TRUCKS

F O R E W O R D

This catalog contains a complete list of parts for the MSB 20-25-30 and 35 Series Fork Lift Trucks. To assist in determining the part numbers and description, the parts in this catalog are grouped according to their location on the Lift Truck. Reference numbers only are shown in each illustration. These numbers correspond to those in the reference number column in the list of parts which precedes each "exploded view".

TYPICAL PARTS ARE SHOWN, AND MAY NOT ALWAYS BE IDENTICAL WITH CURRENT PARTS. REFER TO THE TEXT.

To further assist in locating repair parts, the part numbers are arranged in numerical sequence and indexed on pages 93 thru 101 inclusive.

Component parts of assemblies are listed following the assembly itself and are identified as being part of the assembly by this notation following the description:

Consists of the following..... parts:

or

Includes the following..... parts:

Part numbers only make up an assembly. Hardware items are not to be included.

Parts such as standard bolts, nuts, screws, washers, etc., are identified and listed under the respective individual parts with which they are used. The quantity for many of the shims listed is shown as A.R. (as required). The correct amount of shims should be determined in order to get the proper clearance.

"Right or Left" is determined by facing the mast from the Lift Truck driver's platform.

When in need of repair parts always order the parts from your White Mobilift dealer nearest you. When ordering parts for engine be sure and include all the information on the Engine Serial Number Plate. All parts orders should plainly specify your name, post office address and whether shipment is to go by parcel post, express or freight.

Before returning repair parts it is necessary to secure written permission from the company authorizing the return of such parts. In the returning of repair parts be sure the package is tagged with your name and address. Prepay transportation charges.

Claims of shortage or breakage should be made to the transportation company on receipt of goods.

It is the policy of White Industrial Division, White Motor Corporation, to improve its products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements in the design or construction at any time without incurring the obligation to install such changes on products previously delivered.

MSB SERIES FORK LIFT TRUCKS

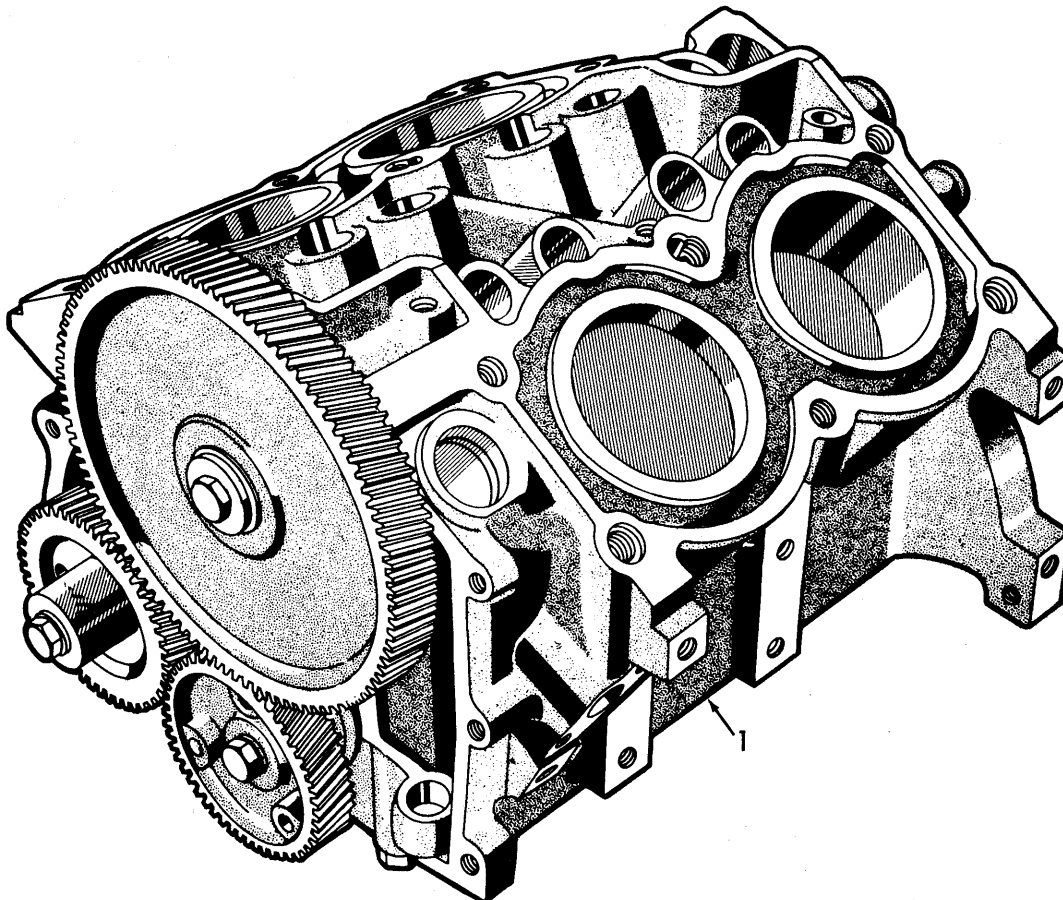
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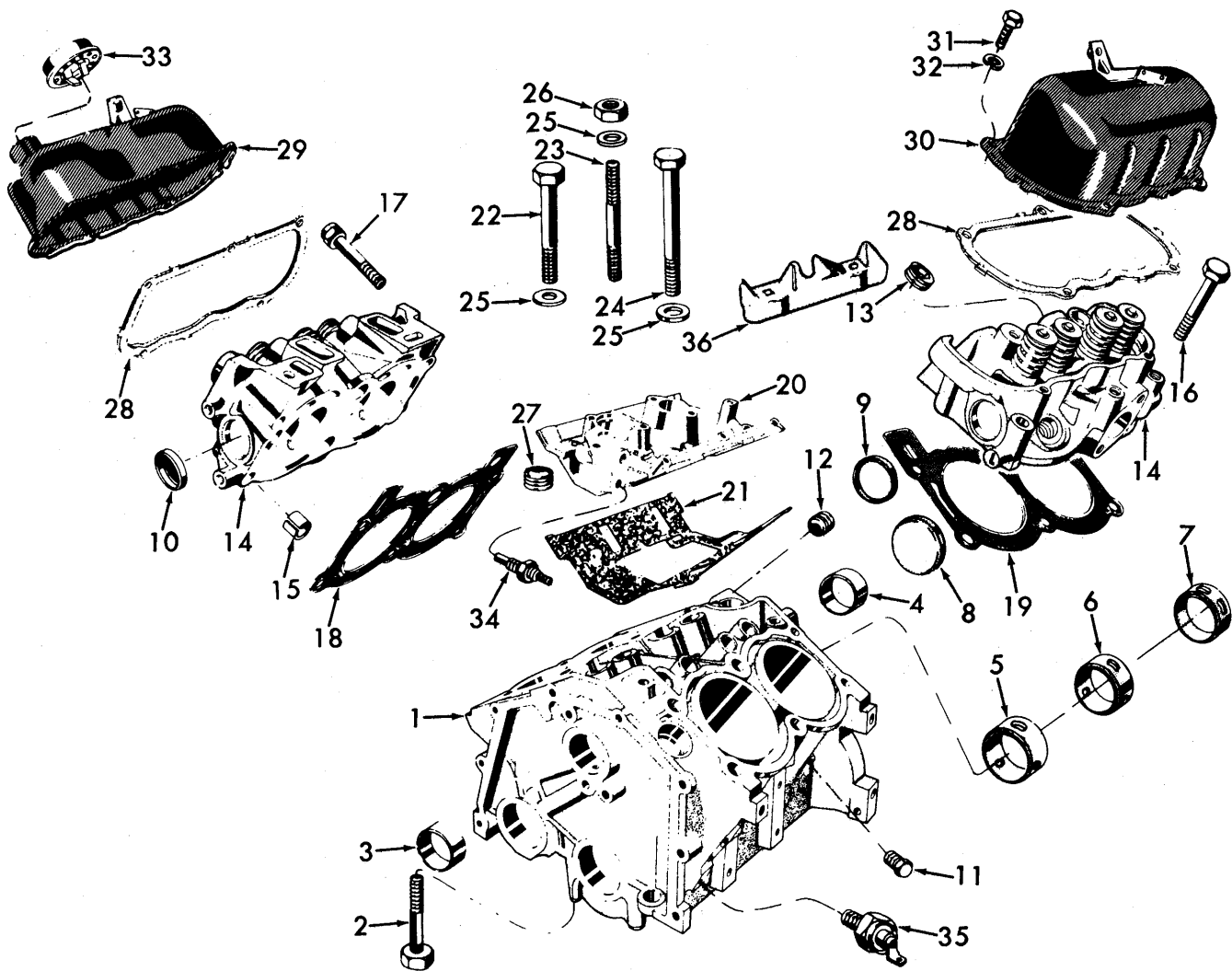
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	SHORT BLOCK ASSEMBLY AND GASKETS SETS	
1	35P2412	425919	Block - assembly, short	1
	35P2413	546318	Kit - gaskets and seals, engine overhaul	1
			Consists of the following 22 parts:	
	35P2383	440958	Gasket - cylinder head, front	1
	35P2384	440959	Gasket - cylinder head, rear	1
	35P2386	405468	Gasket - valve rocker arm cover	2
	35P2352	405093	Gasket - oil pan	1
	35P2354	405164	Gasket - timing gear cover	1
	35P2467	405318	Gasket - cover plate	1
	35P2385	425819	Gasket - intake manifold to cylinder	1
	35P2378	436884	Gasket - water outlet connection	1
	35P2500	405400	Seal - gasket, water pump	1
	35P2501	405404	Gasket - water pump cover	1
	35P2505	425686	Seal - assembly, water pump	1
	35P2513	405144	Gasket - oil pump to block	1
	35P2524	405831	Gasket - oil pump body to inlet tube flange	1
	35P2529	405095	Seal - oil pan, rear	1
	35P2527	228195	Gasket - oil pan drain plug	1
	35P2530	405583	Seal - crankshaft, main bearing cap, rear	2
	35P2448	405576	Seal - crankshaft, rear oil	1
	35P2389	436204	Gasket - carburetor to intake manifold	1
	35P2471	405392	Seal - assembly, balance shaft, front	1
	35P2350	406307	Gasket - exhaust pipe to cylinder head	2
	35P2356	405218	Gasket - fuel pump mounting	1
	35P2543	209355	Gasket - fuel pump strainer	1



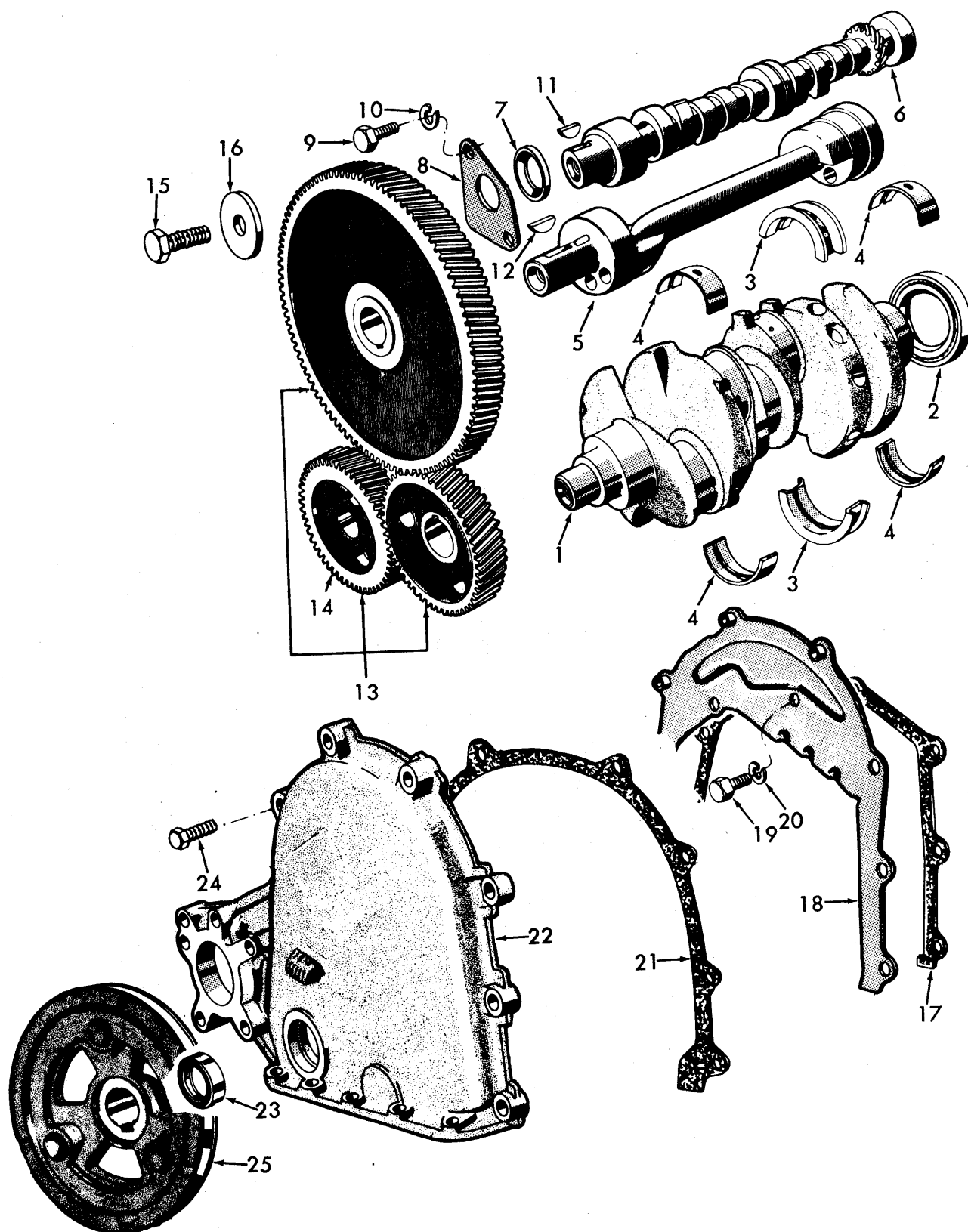
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	CYLINDER BLOCK, HEAD ASSEMBLY AND INTAKE MANIFOLD	
1	-----	544420	Block - assy., cyl., order 35P2412 short block assy.	1
2	35P2416	425408	Bolt - hex., crankshaft main bearing cap	6
3	35P2417	405584	Bearing - balance shaft, front, std.	1
3	35P2418	405585	Bearing - balance shaft, front, .015 U.S.	1
4	35P2419	405586	Bearing - balance shaft, rear, std.	1
4	35P2420	405587	Bearing - balance shaft, rear, .015 U.S.	1
5	35P2421	405588	Bearing - camshaft, front, std.	1
5	35P2422	405589	Bearing - camshaft, front, .015 U.S.	1
6	35P2423	405590	Bearing - camshaft, center, std.	1
6	35P2424	405591	Bearing - camshaft, center, .015 U.S.	1
7	35P2425	405592	Bearing - camshaft, rear, std.	1
8	35P2426	405021	Plug - camshaft opening.....	1
9	35P2427	405086	Plug - balance shaft opening.....	1
10	35P2428	228355	Plug - cylinder head.....	4
11	35P2429	231285	Plug - hex., 1/4"-18.....	1
12	35P2430	230730	Plug - block, 1/8"-27.....	2
13	35P2431	225255	Plug - cylinder head.....	2
14	35P2432	405933	Head - assy., with valves (gas) see page 10 for breakdown	2
14	35P2415	-----	Head - assy., with valve (LP Gas Engine) see page 10 for breakdown.....	2
15	35P2433	425452	Dowel - cylinder head to cylinder block.....	4
16	35P2434	228345	Bolt - hex., cylinder head to block.....	11
17	35P2435	230555	Bolt - hex., cylinder head to block.....	1
18	35P2383	440958	*Gasket - cylinder head, front	1
19	35P2384	440959	*Gasket - cylinder head, rear.....	1
20	35P2436	436278	Manifold - assembly, intake.....	1
	35P2391	212265	Plug - water outlet on intake manifold, M16 x 1.5	1
21	35P2385	425819	*Gasket - intake manifold.....	1
22	35P2437	288995	Bolt - hex., intake manifold.....	2
23	35P2438	229695	Stud - intake manifold.....	2
24	35P2439	227675	Bolt - hex., intake manifold.....	2
25	35P2440	206036	Washer - flat	6
26	35P2441	232755	Nut - hex.	2
27	35P2431	225255	Plug - pipe.....	2
28	35P2386	405468	*Gasket - cover, valve rocker arm	2
29	35P2442	436662	Cover - assembly, valve rocker arm, front	1
30	35P2443	436661	Cover - assembly, valve rocker arm, rear.....	1
31	35P2444	202716	Bolt - hex., valve rocker arm	10
32	35P2445	228335	Washer - lock	10
33	35P2446	425921	Cap - assembly, oil filler.....	1
34	35P2360	C3AZ-10884-A	Unit - sending, water temperature gauge	1
35	35P2361	B6A-9278-A	Unit - sending, oil pressure gauge	1
36	35P2633	405235	Baffle - oil.....	2
*NOTE: In kit 35P2413 Engine Gasket Set.				



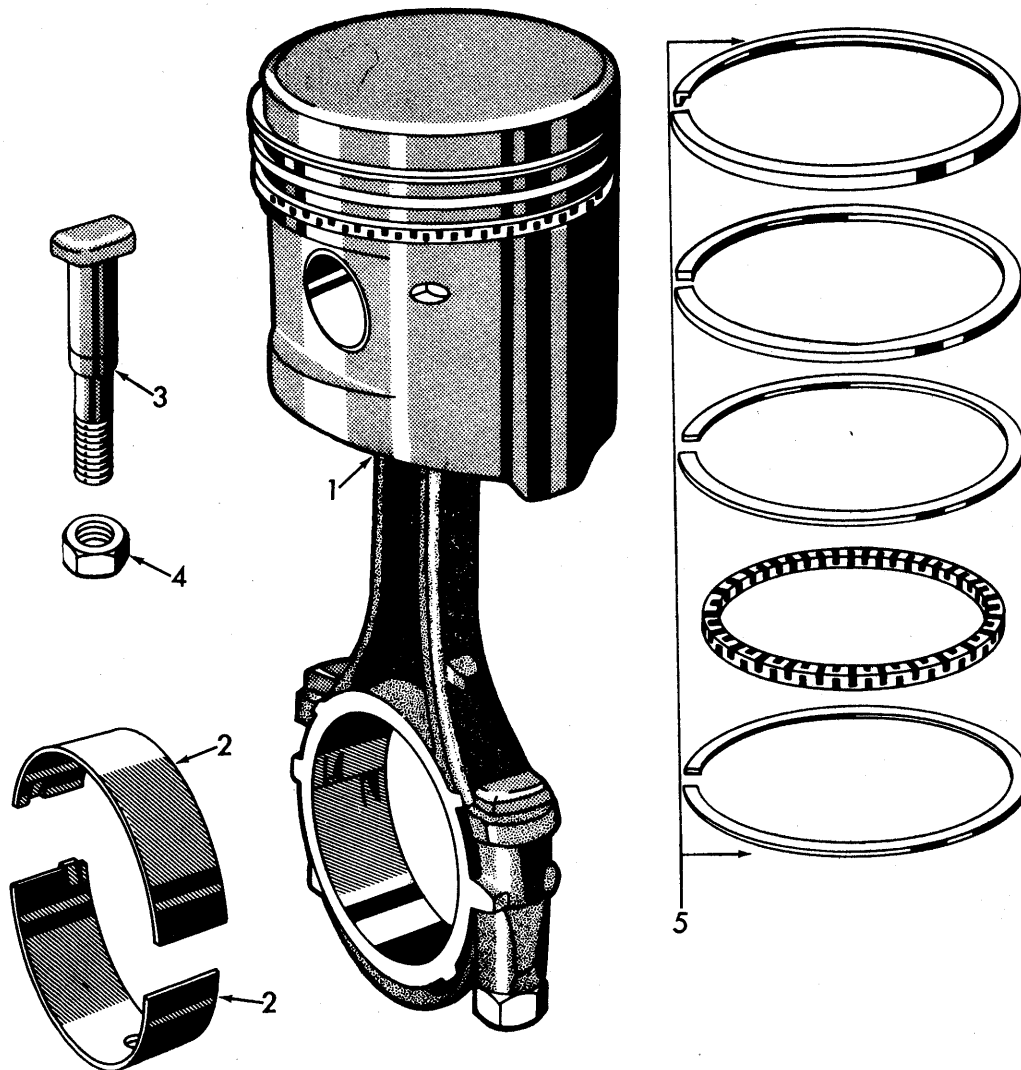
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	CRANKSHAFT, MAIN BEARINGS, CAMSHAFT, BALANCE SHAFT, TIMING GEARS AND TIMING GEAR COVER	
1	35P2447	405645	Crankshaft - engine.....	1
2	35P2448	405576	*Seal - oil, crankshaft rear.....	1
3	35P2449	436090	Bearing - crankshaft, center, (half), std., red	2
3	35P2450	436091	Bearing - crankshaft, center, (half), .0005 O.S., blue	2
3	35P2451	436093	Bearing - crankshaft, center, (half), .0098 (.25 MM) . U.S.	2
4	35P2452	436083	Bearing - crankshaft, front and rear, (half), std., red .	4
4	35P2453	436084	Bearing - crankshaft, front and rear, (half), .0005 O.S. blue	4
4	35P2454	436086	Bearing - crankshaft, front and rear, (half), .0098 (.25 MM) U.S.	4
5	35P2455	405889	Shaft - balance, engine.....	1
6	35P2456	405823	Camshaft - engine.....	1
7	35P2457	425764	Spacer - camshaft gear, std., blue	1
7	35P2458	425765	Spacer - camshaft gear, .0005, red	1
8	35P2459	425762	Plate - camshaft thrust.....	1
9	35P2357	202776	Bolt - hex., thrust plate.....	2
10	35P2460	206463	Washer - lock	2
11	35P2461	226395	Key - Woodruff, timing gears, crankshaft and camshaft	2
12	35P2462	226405	Key - Woodruff, gear and pulley, balance shaft	2
13	35P2463	436595	Gear - set, timing, (crankshaft, camshaft and balance shaft)	1
14	35P2351	C5JZ6A303-A	Includes the following part: Gear - balance shaft (cast iron).....	1
15	35P2465	226635	Bolt - hex., timing gears.....	3
16	35P2466	230145	Washer - flat	3
17	35P2467	405318	*Gasket - intermediate plate.....	1
18	35P2468	405531	Plate - intermediate.....	1
19	35P2469	202746	Bolt - hex., intermediate plate	2
20	35P2460	206436	Washer - lock	2
21	35P2354	405164	*Gasket - cover, timing gears.....	1
22	35P2470	425624	Cover - timing gear	1
23	35P2471	405392	*Seal - balance shaft	1
24	35P2472	202836	Bolt - hex., timing gear cover.....	9
25	35P2507	425627	*NOTE: In kit 35P2413 Engine Gasket Set. Pulley - balance shaft	1



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	PISTON AND CONNECTING ROD	
1	35P2404	425911	Piston - assembly, with connecting rod, std.	4
2	35P2405	405654	Bearing - connecting rod, std., half, (red).....	8
2	35P2406	405656	Bearing - connecting rods, half, .0005 U.S. (blue) ...	8
2	35P2407	405660	Bearing - connecting rods, half, .0098 (.25MM) U.S..	8
3	35P2408	405406	Bolt - connecting rods.....	8
4	35P2409	228439	Nut - bolt, connecting rod bolt	8
5	35P2410	436587	Kit - piston ring (set for 4 pistons), std.	1
5	35P2411	436588	Kit - piston ring (set for 4 pistons), .0196 O.S.	1



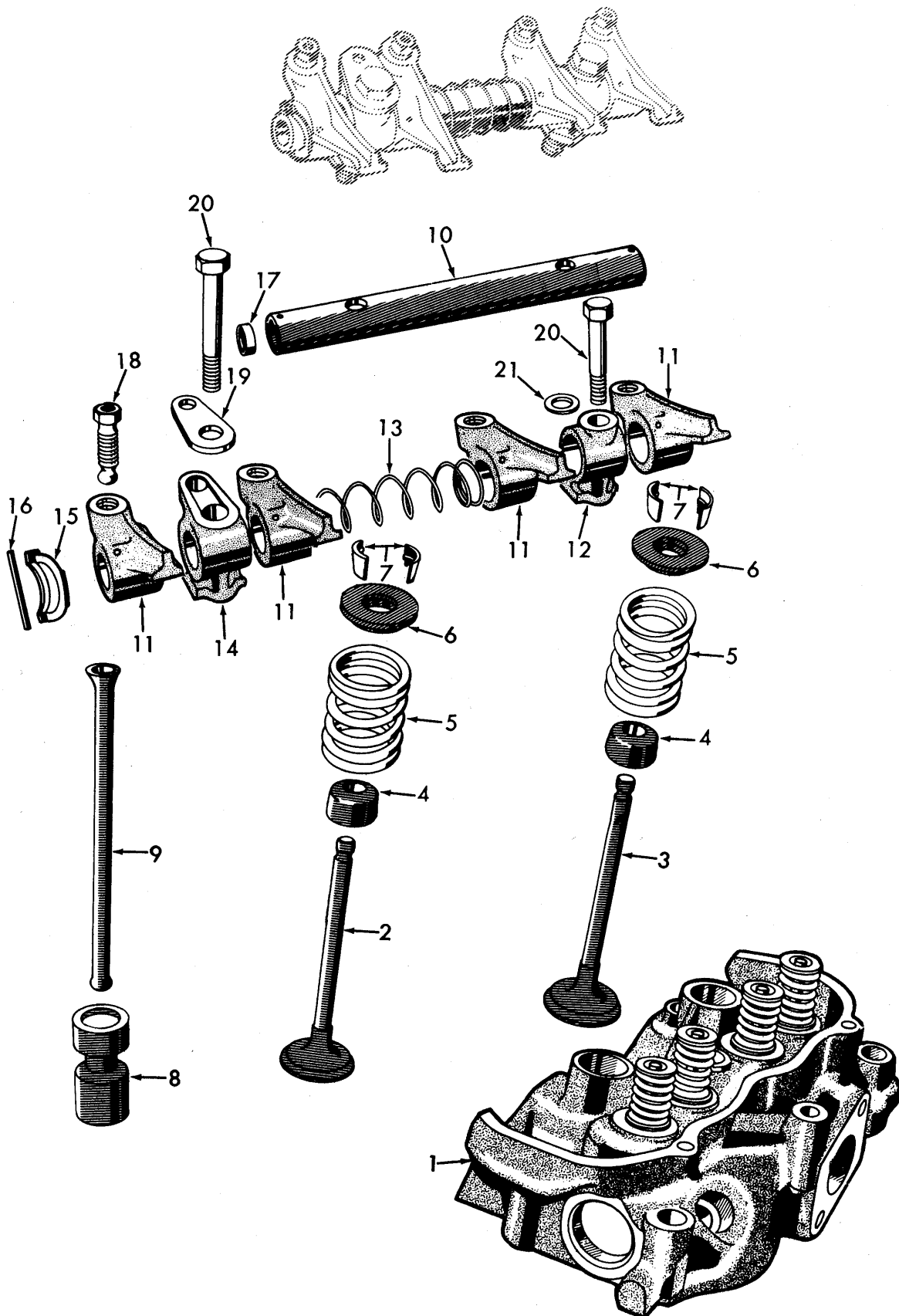
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
		GOVERNOR, CARBURETOR, MUFFLER AND EXHAUST PIPES		
	W.I.D. No.	Ind. Ford No.		
	35A9906	-----	Governor - engine (Hoof 200-586).....	1
			Includes the following 2 parts:	
	35P2296	-----	Gasket - governor and spacers, 4 gasoline, 2 LP Gas.....	4-2
	35P2297	-----	Spacer - governor, 2 gasoline, 1 LP Gas.....	2-1
	35P2388	C6J-9484-B	Screw - hex. socket, M8 x 15MM	2
	35A10041	-----	Tube - vacuum line, governor to carb., 3/16" O.D. ...	2
			50A4727 Nut - flared, 3/16"	2
	35A10042	-----	Hose - tubes, 5/32" I.D. x 12" long.....	1
			50A4402 Elbow - vacuum tube, carb. to governor, 45°	2
	35P2387	C5J-Z-9485-C	Adapter - governor to intake manifold.....	1
	35P2389	436204	*Gasket - adapter to intake manifold.....	1
	35A9902	C7JZ-9510-K	Carburetor - assembly, see page 26 for breakdown.....	1
			50A1962 Bolt - hex., 5/16"-18 x 4".....	2
			50A4202 Washer - plain, 11/32" I.D., 11/16" O.D..	2
	35P2365	C3JZ-9369-A	Tube - fuel filter to carburetor.....	1
	35P2364	C3JZ-4327-A	Hose - connecting, fuel line to carburetor	1
	35P2557	219136	Washer - flat	2
	35A9901	-----	Muffler	1
	35A9899	-----	Tail Pipe - muffler.....	1
	35A9909	-----	Clamp - tail pipe to mufflers, 1-1/2".....	1
	36A9860	-----	Pipe - exhaust, front, head to muffler.....	1
	36A9859	-----	Pipe - exhaust, rear, head to pipe.....	1
	35A9898	-----	Pipe - exhaust, U-shaped.....	1
	35A9897	-----	Pipe - exhaust, pipe to muffler.....	1
	35P2348	230205	Stud - exhaust pipe to cylinder heads	4
	35P2349	227009	Nut - hex., exhaust pipe studs in cyl. heads	4
	35P2350	406307	*Gasket - exhaust pipe to cylinder head	2
	35A9911	-----	Bracket - muffler mounting	1
	35A9910	-----	Clamp - muffler pipes	4
	35A10109	-----	Guard - muffler	1
			50A3986 Screw - rd. hd., 1/4"-20 x 1/2".....	1
			50A1777 Nut - elastic stop, 1/4"-20	1
			*NOTE: In kit 35P2413 Engine Gasket Set.	

MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	CYLINDER HEADS, VALVES AND ROCKER ARMS	
1	35P2432	405933	Head - assembly, Gasoline engine.....	2
1	35P2415	-----	Head - assembly, LP Gas engine.....	2
			Each includes the following 8 parts:	
2	35P2475	405429	Valve - intake, std.	4
2	35P2476	405430	Valve - intake, .0078 (0.20 MM) O.S.	4
3	35P2477	405821	Valve - exhaust, std.	4
3	35P2478	405878	Valve - exhaust, .0078 (0.20 MM) O.S.	4
4	35P2479	405261	Seal - valve stem oil	8
5	35P2480	425671	Spring - valve	8
6	35P2481	405578	Retainer - valve spring.....	8
7	35P2482	559505	Lock - valve spring retainer	16
8	35P2473	405223	Tappet - valve.....	8
9	35P2474	405224	Rod - push, valves	8
10	35P2483	405008	Shaft - valve rocker arm	2
11	35P2484	405230	Arm - assembly, valve rocker.....	8
12	35P2485	405233	Support - shaft, valve rocker arm, oil inlet	2
13	35P2486	405236	Spring - valve rocker arm	2
14	35P2487	405234	Support - shaft, valve rocker arm, oil inlet.....	2
15	35P2488	405280	Washer - shaft, valve rocker arms	4
16	35P2489	226555	Pin - roll, valve rocker arms.....	4
17	35P2490	226985	Plug - shaft, valve rocker arm	4
18	35P2491	425028	Screw - adjusting, valve rocker arm	4
19	35P2492	405237	Cover - valve rocker arm support.....	2
20	35P2493	201385	Bolt - hex., cover, valve rocker arms.....	4
21	35P2494	225225	Washer - flat, support bolt.....	2

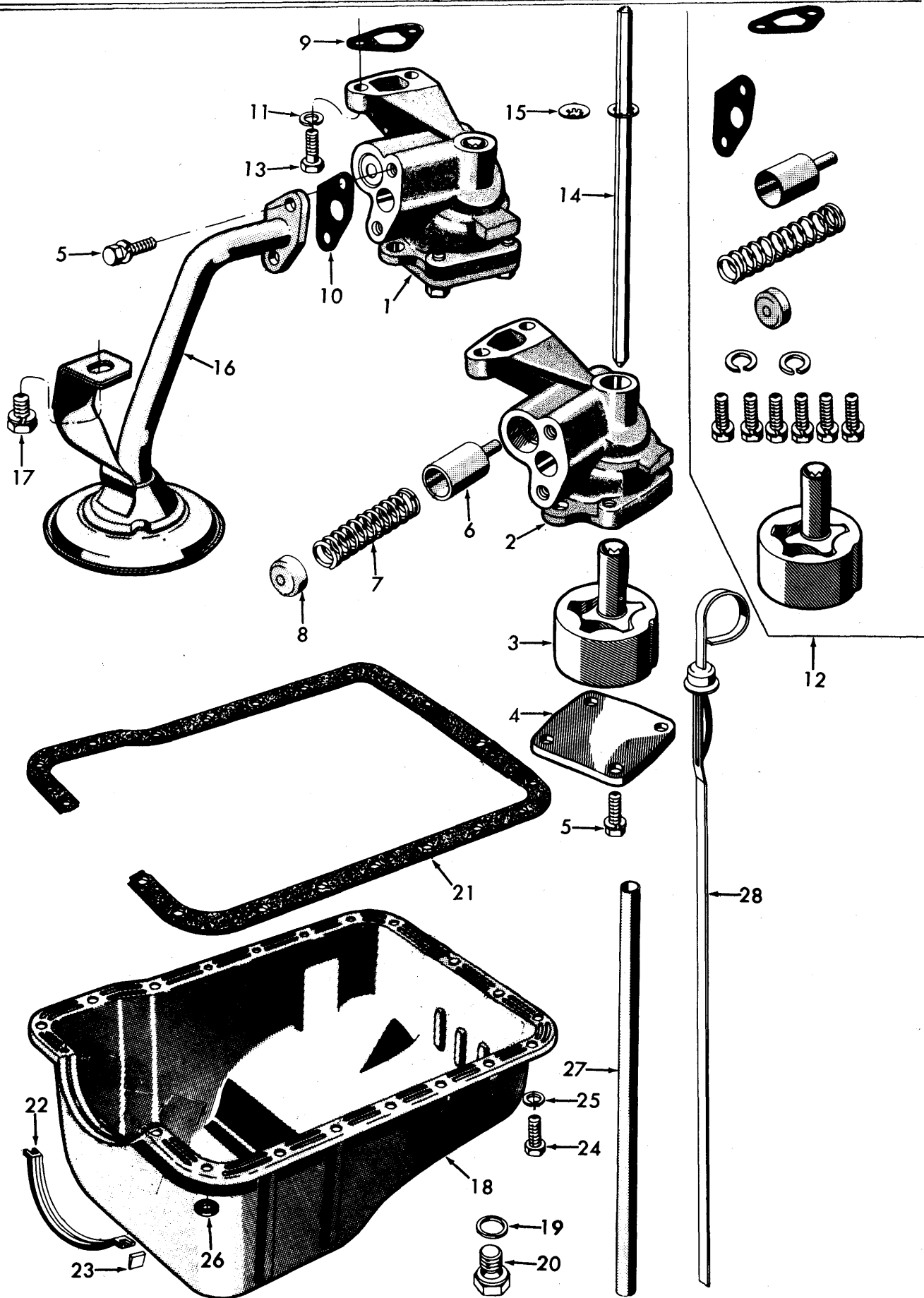
MSB SERIES FORK LIFT TRUCKS



MSB SERIES FORK LIFT TRUCKS

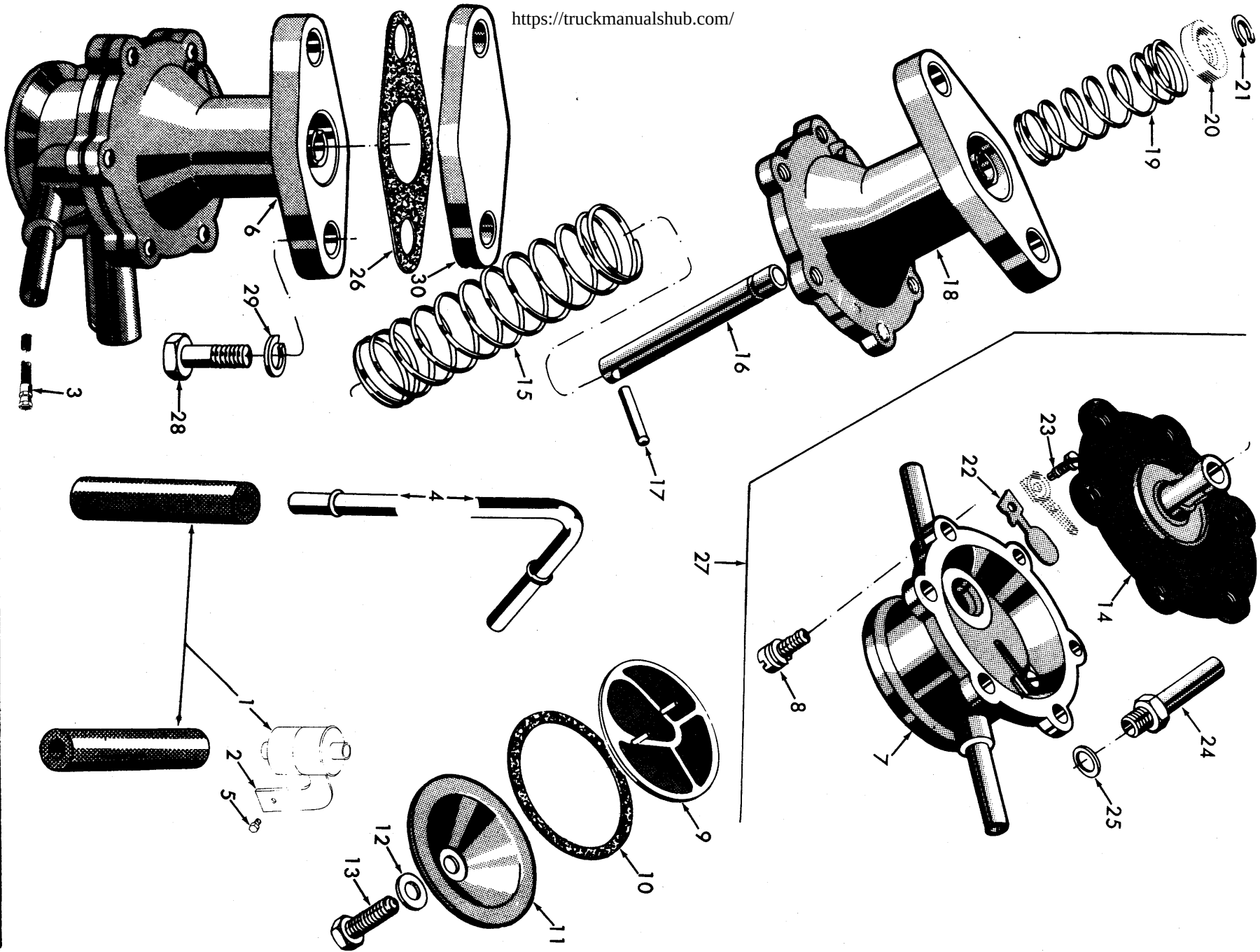
Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	OIL PUMP AND ENGINE OIL PAN	
1	35P2511	425244	Pump - assembly, oil.....	1
			Includes the following 6 parts:	
2	-----	425245	Body - oil pump, order 35P2511 complete pump.....	1
3	35P2517	405011	Rotor - assembly, with drive shaft	1
4	35P2518	405130	*Cover - pump body.....	1
5	35P2519	226535	*Bolt - covers, with lockwasher	6
6	35P2520	405132	*Plunger - relief valve.....	1
7	35P2521	405131	*Spring - relief valve.....	1
8	35P2522	405133	*Plug - relief valve.....	1
9	35P2513	405144	**Gasket - oil pump to cylinder block.....	1
10	35P2524	405831	**Gasket - body to inlet tube flange	1
11	35P2460	206436	*Washer - lock.....	2
12	35P2512	405997	*Kit - oil pump repair	1
			*NOTE: Repair Kit includes parts identified with an asterisk.	
13	35P2514	233686	Bolt - hex., oil pump to cylinder block	2
14	35P2515	405141	Shaft - assembly, intermediate.....	1
15	35P2516	405143	Ring - retainer, intermediate shaft	1
16	35P2523	623171	Cover - assembly, with screen	1
17	35P2525	232105	Bolt - hex., tube bracket.....	1
18	35P2526	425690	Pan - assembly, engine oil	1
19	35P2527	228195	**Gasket - oil drain plug.....	1
20	35P2528	220036	Plug - oil drain	1
21	35P2352	405093	**Gasket - oil pan.....	1
22	35P2529	405095	**Seal - oil pan, rear	1
23	35P2530	405583	**Packing - crankshaft bearing cap	2
24	35P2531	230975	Bolt - hex., oil pan to cylinder block.....	18
24	35P2444	202716	Bolt - hex., oil pan, R.H. front of bearing	2
25	35P2445	228335	Washer - lock	18
26	35P2353	229155	Washer - bolts (rubber), one each used on two rear corner bolts 35P2444.....	2
27	35P2532	405867	Tube - oil level indicator	1
28	35P2533	405868	Dipstick - assembly, engine oil level	1
			**NOTE: In kit 35P2413 Engine Gasket Set.	

MSB SERIES FORK LIFT TRUCKS



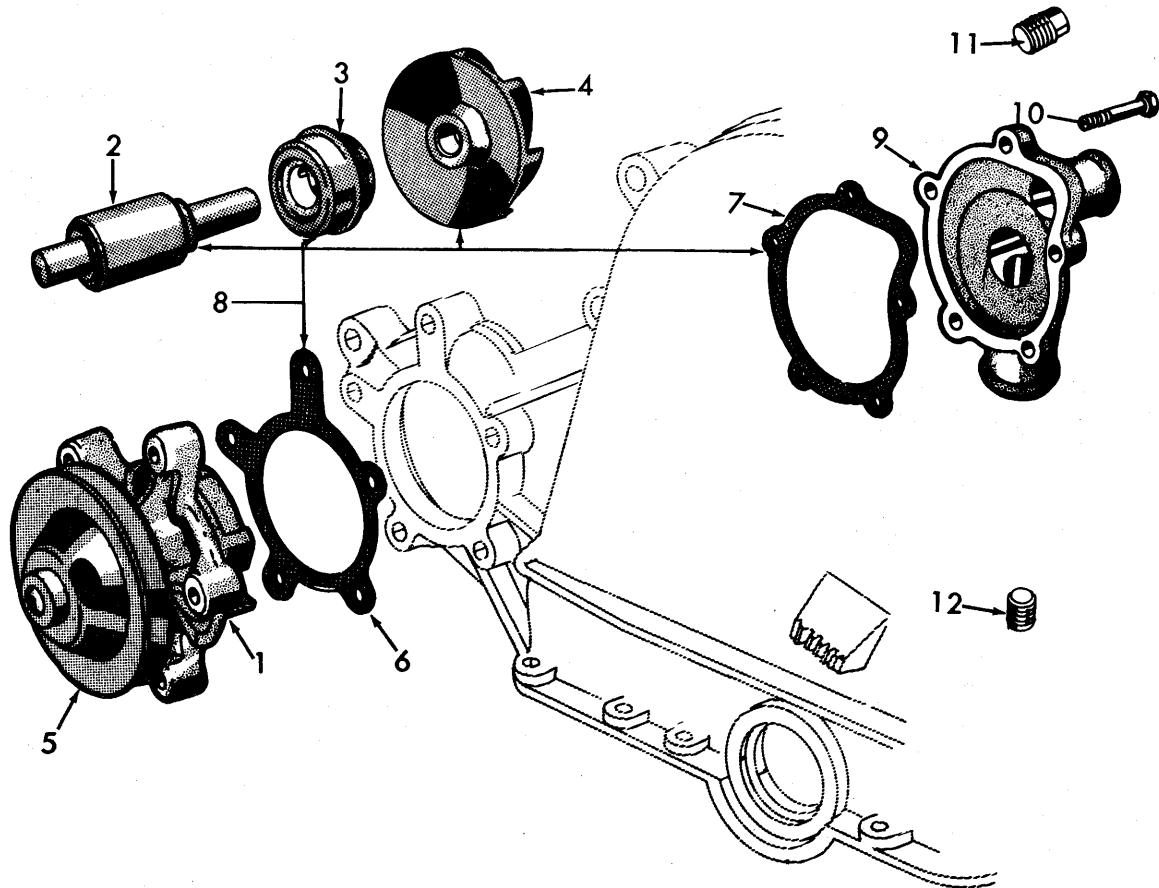
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	FUEL FILTER AND FUEL PUMP	
1	35P2362	C6JZ-9155-B	Kit - fuel filter NOTE: Kit includes 1 fuel filter, 2 fuel lines and 4 clamps.	1
2	35P2363	C3JZ-9180-A	Bracket - fuel filter.....	1
3	35A10103	-----	Hose - gas tank to fuel pump, 35" long.....	1
4	35P2365	C3JZ-9369-A	Tube - fuel filter to carburetor.....	1
5	35P2366	202025	Bolt - hex., M10 x 1.5 x 15 MM.....	1
6	35P2535	425629	Pump - assembly, fuel..... Includes the following 18 parts:	1
7	-----	425792	*Body - assembly, upper, order 35P2536 kit	1
8	35P2539	227645	*Screw - assembly, with lockwasher	6
9	35P2540	557114	Strainer.....	1
10	35P2541	557115	Gasket - cap.....	1
11	35P2542	506249	Cap - strainer.....	1
12	35P2543	209355	+ Gasket - bolt	1
13	35P2544	202926	Bolt - hex., strainer cover.....	1
14	35P2545	446069	*Diaphragm - assembly	1
15	35P2546	446068	Spring - diaphragm.....	1
16	35P2547	407170	Tappet.....	1
17	35P2548	407171	Pin - coupling	1
18	35P2549	405917	Housing - fuel pump.....	1
19	35P2550	407173	Spring - tappet	1
20	35P2551	407174	Retainer - spring	1
21	35P2552	407175	Washer - retaining.....	1
22	35P2553	207167	*Spring - leaf, valve	1
23	35P2554	229355	*Screw - pan head, self tapping.....	1
24	35P2555	407162	*Connection - pipe.....	1
25	35P2556	407166	*Gasket - connector	1
26	35P2356	405218	*+ Gasket - fuel pump or cover for LP gas	1
27	35P2536	407190	*Kit - fuel pump repair	1
			NOTE: Kit consists of parts identified with a single asterisk ().	
28	35P2538	200516	Bolt - hex., fuel pump to cylinder block	2
29	35P2537	405219	Rod - push, fuel pump	1
30	35P2355	C5JZ-6095-B	**Cover - fuel pump opening	1
	35P2357	202776	**Bolt - hex., M8-1.25 x 18 MM	2
			**NOTE: Used on units with LP Gas.	
			+ NOTE: In kit 35P2413 Engine Gasket Set.	



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	WATER PUMP	
1	35P2498	405398	Pump - water, with pulley.....	1
			Includes the following 4 parts:	
2	35P2504	405173	*Shaft - with bearing and slinger, assembly.....	1
3	35P2505	425686	**Seal - assembly, pump shaft.....	1
4	35P2506	405015	*Impeller - water pump.....	1
5	35P2508	405577	Pulley - water pump.....	1
6	35P2500	405400	**Gasket - water pump, pulley end.....	1
7	35P2501	405404	**Gasket - water pump, cover end.....	1
8	35P2499	405599	*Kit - water pump repair.....	1
			NOTE: Kit includes parts identified with an asterisk ().	
			**NOTE: In kit 35P2413 Engine Gasket Kit.	
9	35P2502	425861	Cover - water pump.....	1
10	35P2503	200916	Bolt - hex., water pump cover.....	5
11	35P2509	228986	Plug - pipe, water pump cover back.....	1
12	35P2510	591126	Plug - pipe, water pump cover bottom.....	1



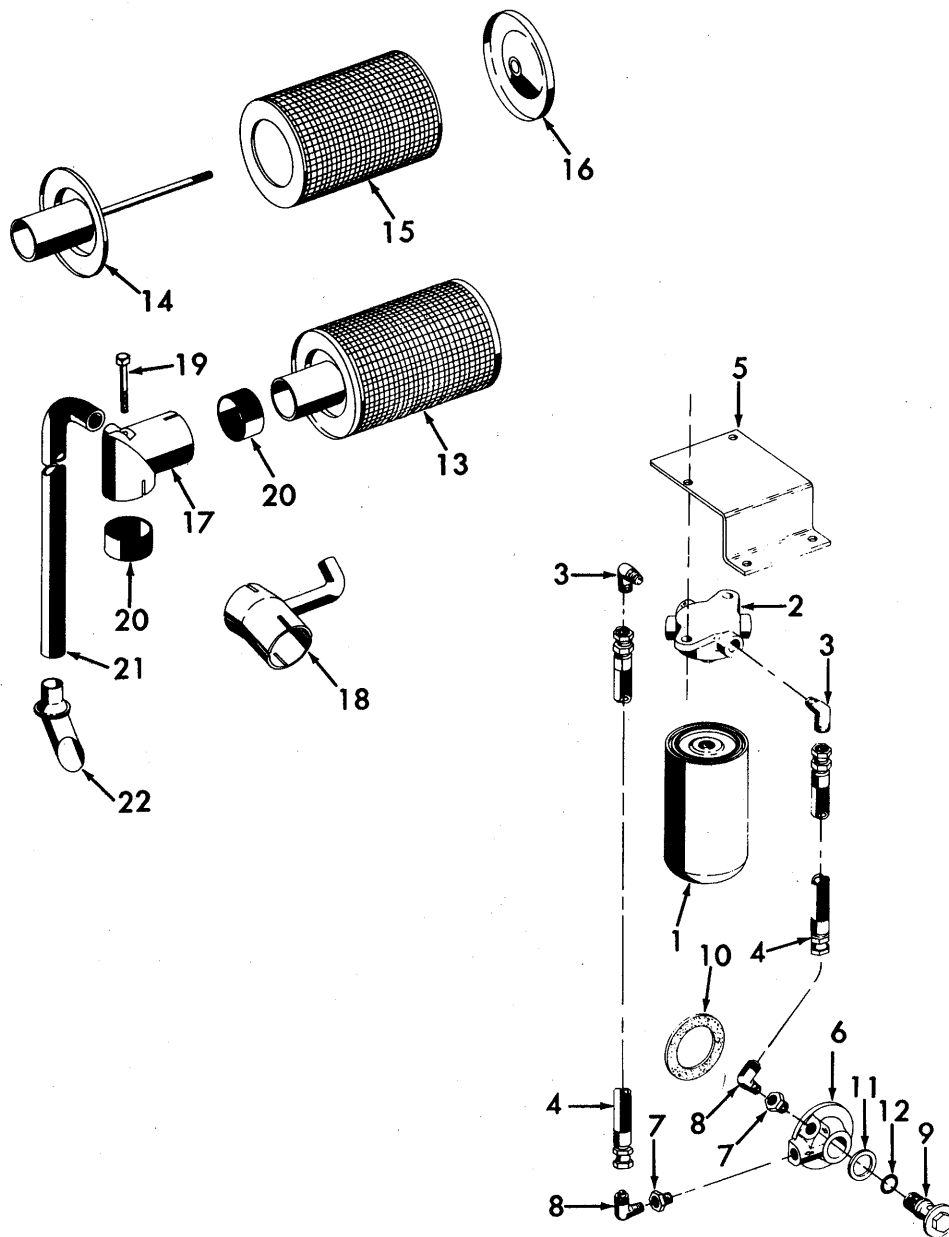
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		DECALS	
	35A8815	Decal - Mobilift, on mast, 2-1/2" x 15"	2
	35A10198	Decal - White Mobilift, 3-9/16" x 12-1/4"	2
	35A10196	Decal - White, on mast, 3/4" x 4-1/2"	2
	35A10189	Decal - O	2
	35A10190	Decal - 2	2
	35A10191	Decal - 3	2
	35A10193	Decal - 5	2
	35A10202	Decal - strip, truck side, 1-1/2" x 33-1/4"	2
	35A10199	Decal - black, R.H., 4-1/4" x 6" x 6-1/2"	1
	35A10197	Decal - black, L.H., 4-1/4" x 6" x 6-1/2"	1
	35A8062	Decal - capacity, 2000#, 1-5/8" x 4"	1
	35A8063	Decal - capacity, 2500#, 1-5/8" x 4"	1
	35A8061	Decal - ramp warning, 1-3/16" x 3"	1
	35A8822	Decal - Mobilmatic Drive, 1-1/4" x 5-1/4"	1
	35A10017	Decal - instructions, LP Gas, 2-15/64" x 4"	1
		PAINT	
	15P1014	Paint - 16 oz. pressurized	-
	15P1015	Paint - quart	-
	15P1013	Paint - gallon	-
		TRANSMISSION OIL	
	35P1755	Oil - transmission, 1 gallon (Shell Donax T-4)	-
	35P1756	Oil - transmission, 5 gallon (Shell Donax T-4)	-

MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
ENGINE OIL FILTER			
1	35A5533	Filter - oil, throw away.....	1
2	35A6159	Base - filter	1
3		50A1909 Elbow - base, 90°, 3/8" x 9/16"-18 thread	2
4	35A1295	Hose - filter, 3/8" I.D. x 21" long	2
		Caution: Check arrows on engine inlet-outlet cover and labeling on filter base to make sure oil hoses are properly connected.	
5	35A9869	Bracket - filter base	1
		50A3662 Bolt - hex., 3/8"-16 x 1/2".....	2
		50A3667 Bolt - hex., 3/8"-16 x 1-1/4".....	2
		50A1900 Nut - hex., 3/8"-16.....	4
6	35A9874	Cover - engine, oil filter, inlet and outlet	1
7		50A4556 Bushing - reducer, 3/8" to 1/4".....	2
8		50A4413 Elbow - cover to hose, 90°, 1/4" x 9/16"-18	2
9	35A9871	Adapter - cover (Ford 436250).....	1
10	35A9873	Gasket - adapter, 3" O.D.	1
11	35A9887	Seal - adapter, 1/16" x 1-3/32" I.D. x 1-25/64" O.D. (Ford 233095)	1
12	35A9886	"O" Ring - adapter, 19/32" I.D., 29/32" O.D. (Ford 436250).....	1
AIR CLEANER			
13	10A16904	Air Cleaner - assembly (Fram Corp. No. FA70-1PL).....	1
		Includes the following 3 parts:	
14	10P1872	Base - assembly.....	1
15	10P1873	Filter - air cleaner	1
16	10P1874	Cover - filter	1
		GM120240 Nut - wing, No. 10-32	1
		50A4289 Clamp - air cleaner, 2-1/4".....	1
17	36A9861	Adapter - carburetor to air cleaner, gasoline engine	1
18	36A9928	Adapter - carburetor to air cleaner, LP gas engine	1
19	35A9950	Bolt - hex., 6M (.23) x 1.00 threads x 60MM (2.362).....	1
		50A4201 Washer - plain, 9/32" I.D., 5/8" O.D.	1
20	35A9563	Band - adapter, rubber, 2" O.D. x 1" long	2
21	35A9926	Hose - crankcase, 3/4" I.D. x 17-1/2" long.....	1
		50A4298 Clamp - hose, 1".....	2
22	35P2371	Tube - assembly, mounts in crankcase	1

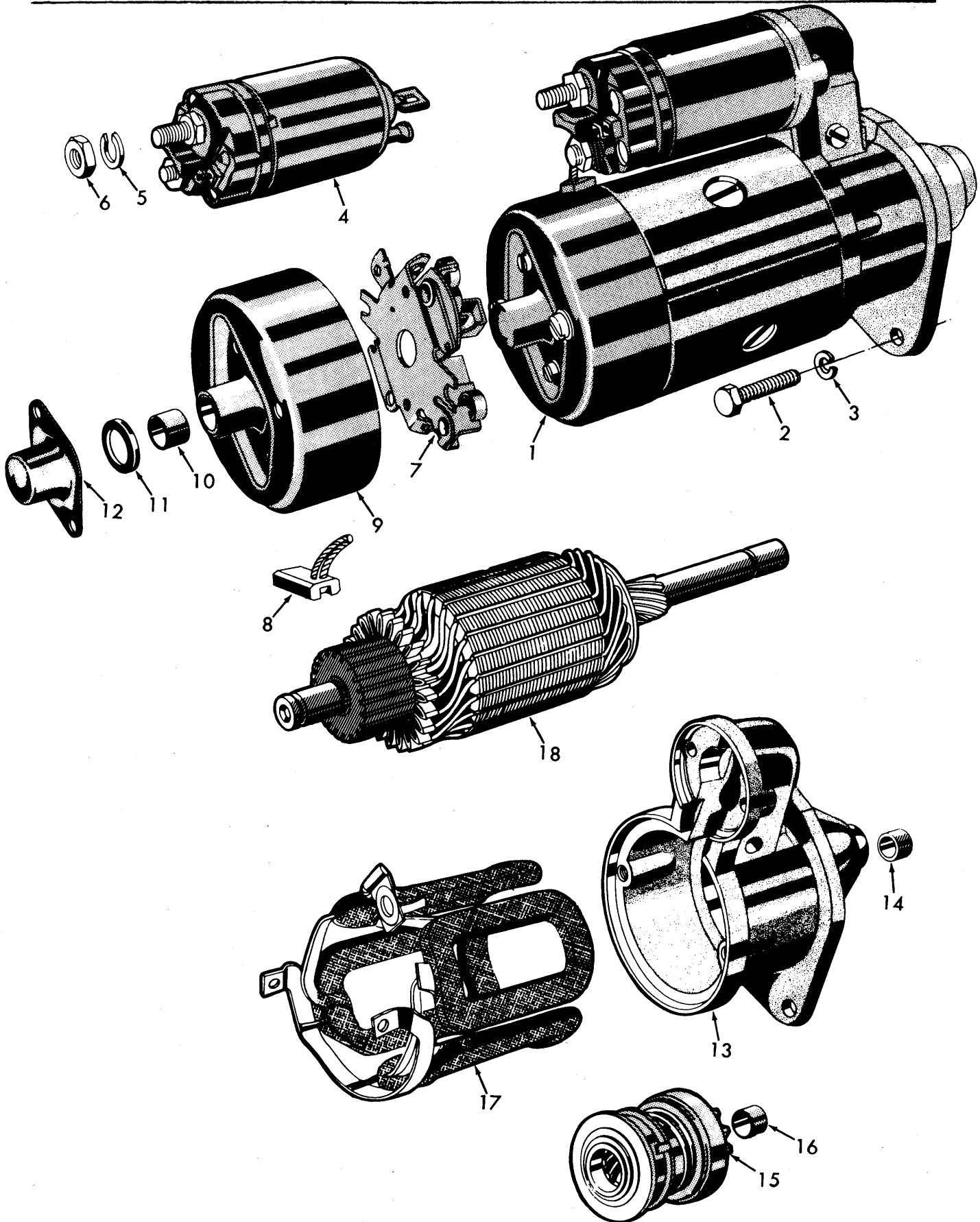
MSB SERIES FORK LIFT TRUCKS



MSB SERIES FORK LIFT TRUCKS

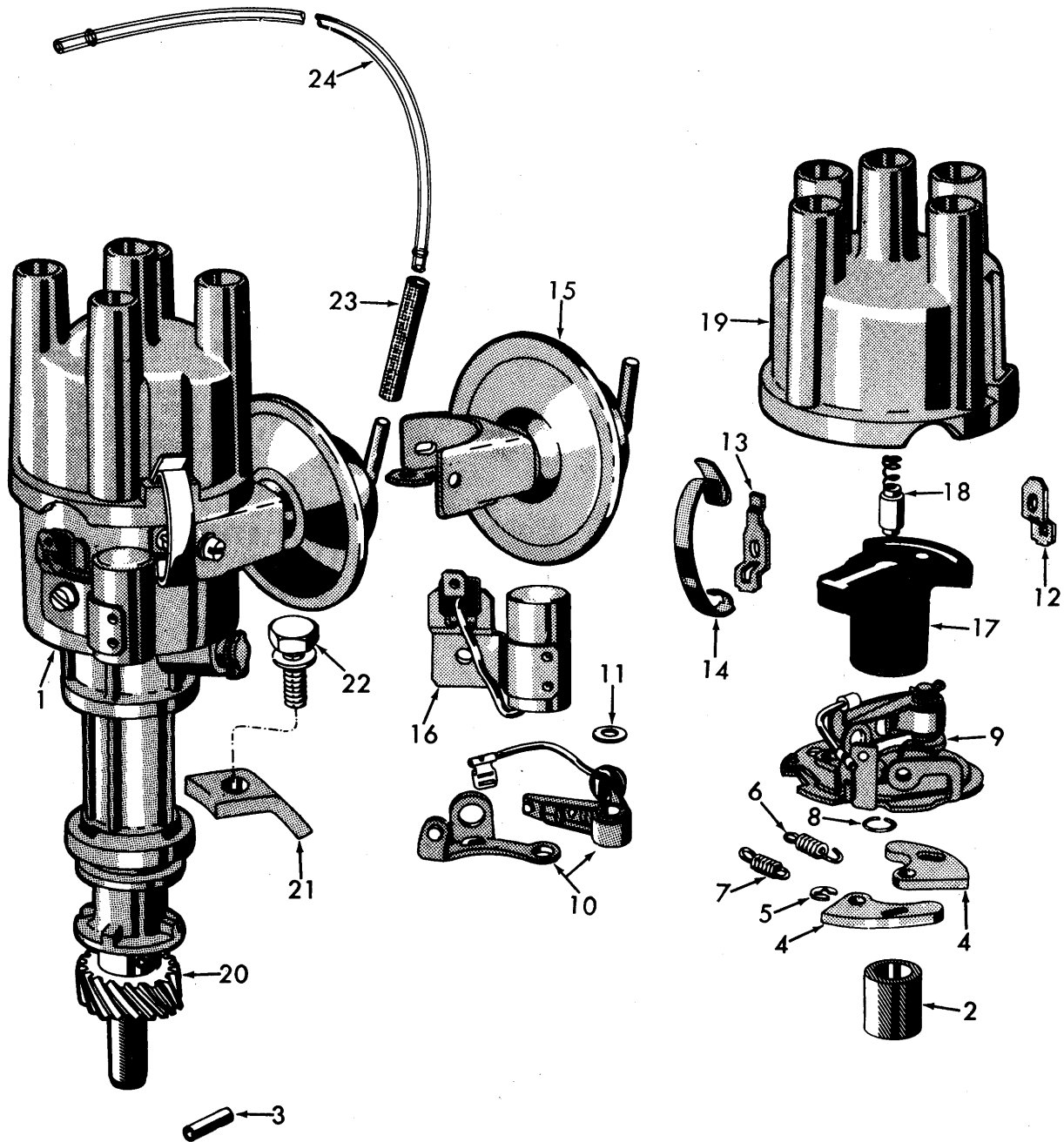
Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	STARTER	
1	35P2359	436764	Starter - assembly, 12 volt	1
2			Includes the following 13 parts:	
3			50A3665 Bolt - hex., 3/8"-16 x 7/8".....	2
4	35P2608	444074	50A4222 Washer - lock, 3/8"	2
5	35P2609	34806-S	Switch - assembly, solenoid, 12 volts.....	1
6	35P2610	204736	Washer - lock	1
7	-----	-----	Nut - hex., solenoid terminal.....	1
8	35P2611	425706	Retainer - brushes, 12 volt, not serviced.....	1
9	35P2612	436608	Brushes - set, 12 volt	1
			Cover - assembly, starter	1
			Includes the following part:	
10	35P2613	556666	Bushing - cover	1
11	35P2614	541702	Gasket - cap.....	1
12	-----	-----	Cap - bushing, not serviced.....	1
13	35P2615	436605	Cover - assembly, drive end.....	1
			Includes the following part:	
14	35P2616	541693	Bushing - cover, drive end.....	1
15	35P2617	541695	Drive - assembly, starting motor	1
			Includes the following part:	
16	35P2618	541699	Bushing - pinion, starter drive.....	2
17	35P2619	541708	Coil - assembly, field, 12 volt.....	1
18	35P2620	425709	Armature - assembly, 12 volt	1

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Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	DISTRIBUTOR ASSEMBLY AND MOUNTING PARTS	
1	35P2393	425816	Distributor - assembly	1
			Includes the following 9 parts:	
2	35P2400	436849	Bushing - distributor drive shaft	1
3	35P2399	231275	Pin - roll.....	1
4	35P2621	436850	Weight - distributor	2
5	35P2622	548362	Ring - locking, weights	2
6	35P2623	425607	Spring - plate, contact breaker	1
7	35P2624	425979	Spring - distributor weights	1
8	35P2625	548363	Ring - cam locking.....	1
9	35P2626	436983	Plate - assembly, distributor breaker.....	1
10	35P2394	425980	Set - points, distributor contact	1
11	35P2627	548336	Shim - distributor breaker contacts, 0.1 MM.....	1
12	35P2628	521992	Fastener - clamp.....	1
13	35P2629	521991	Fastener - clamp.....	1
14	35P2630	521161	Clamp - distributor cap	1
15	35P2631	425605	Unit - assembly, vacuum.....	1
16	35P2395	425977	Condenser - distributor.....	1
17	35P2396	425981	Rotor - assembly	1
18	35P2632	694577	Brush - assembly	1
19	35P2397	514417	Cap - distributor	1
20	35P2398	405532	Gear - distributor drive	1
21	35P2401	425587	Clamp - distributor.....	1
22	35P2402	229366	Bolt - clamp, with lock washer	1
23	35P2382	554933	Hose - vacuum line to distributor.....	1
24	35P2381	436082	Tube - vacuum	1



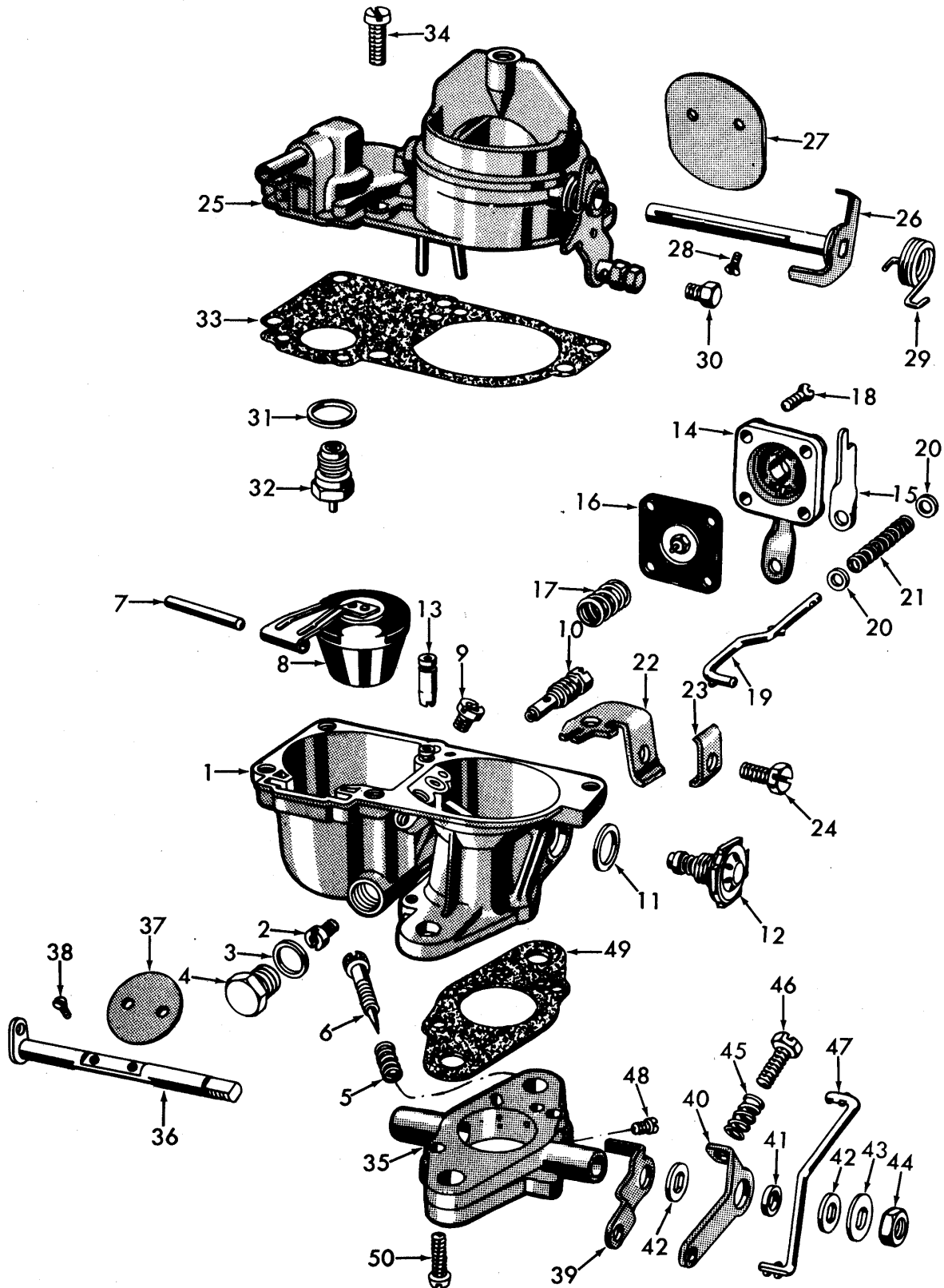
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	RADIATOR, FAN, THERMOSTAT HOUSING AND WATER TUBES	
1	35A9881	-----	Radiator	1
			Includes the following part:	
			50A4205 Washer - plain, 7/16" I.D., 1" O.D.	2
			50A1986 Nut - hex., 3/8"-16.....	2
			50A3647 Bolt - hex., 1/4"-20 x 7/8"	1
			50A4202 Washer - plain, 5/16" I.D., 3/4" O.D. ..	1
2	35P880	-----	Cap - radiator.....	1
3	35A9920	-----	Washer - radiator (Neoprene), 1/4" x 1/4" I.D. x 3/4" O.D.	2
4	35A9921	-----	Washer - radiator (Neoprene), 1/4" x 3/8" I.D. x 1-1/2" O.D.	2
5	35A9844	-----	Hose - radiator, upper, 1-1/4" I.D. x 9" long	1
6	35A9858	-----	Hose - radiator, lower, 1" I.D. x 6" long	1
			50A4285 Clamp - hose, 1-3/8"	1
			50A4301 Clamp - hose, 1-5/8"	3
			50A5076 Pad - radiator (Polyfoam), 1" x 1" x 18" ..	3
7	14A6105	-----	Shaft - fan, with bearing and hub	1
8	35A9903	C5JZ-8600-C	Fan - engine, pusher, 6 blade, 14" dia.	1
9			50A5562 Bolt - hex., 5/16"-24 x 3/4"	4
10	36A9570	-----	Mount - fan shaft support.....	1
11	35A9948	21074-GS8	Bolt - mount, fan shaft.....	3
12	35A9752	-----	Spacer - fan mount, 5/8" O.D. x 1" long.....	2
13	35A9877	-----	Spacer - fan mount, 5/8" O.D. x 3/4" long.....	1
14	35A9943	-----	Belt - fan drive, 3/8" wide x 58" O.C.	1
15	35A10472	EDG-8509-T	Pulley - fan drive, double groove, 5-1/2" dia.	1
16	36A9851	-----	Shroud - fan, upper	1
			50A3988 Screw - slotted, 1/4"-20 x 3/8".....	3
17	36A9849	-----	Shroud - fan, lower	1
18	36A9842	-----	Tube - water	1
19	35A9816	-----	Hose - tube, 1" I.D. x 2-1/2" long, 40° bend	1
20	35A9817	-----	Elbow - tube, 3/4" I.D. x 90°	2
			50A4293 Clamp - hose, 1-7/16"	2
			50A4296 Clamp - hose, 1-3/16"	4
21	35P2392	544434	Housing - thermostat and water outlet.....	1
22	35P2379	201006	Bolt - hex., M8 x 50 MM	2
22	35P2380	201336	Bolt - hex., M8 x 60 MM	1
23	35P2378	436884	*Gasket - housing	1
24	35P2376	C5JZ-8575-B	Thermostat - engine, 160°	1
25	35P2377	C6JZ-8555-A	Spacer - housing, thermostat and water outlet.....	1
26	35P2374	C6JZ-8597-A	Hose - water, by-pass tube, upper	1
27	35P2373	C6JZ-8597-B	Hose - water, by-pass tube, lower.....	1
28	35P2372	C6JZ-8548-B	Pipe - water by-pass to water pump.....	1
			50A4298 Clamp - hose, 1".....	4
29	35P2375	436416	Elbow - by-pass tube, 90°.....	2
	35P2534	358347S	Clip - tube.....	1
			*NOTE: In kit 35P2413 Engine Gasket Set.	



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION		No. Pcs.
	W.I.D. No.	Ind. Ford No.	CARBURETOR - GASOLINE ENGINE	
	35A9902	C7JZ -9510-K	Carburetor - assembly	1
			Includes the following 49 parts:	
1	-----	425737	Body - main, order 35A9902 Carb. Assy.	1
2	35P2560	548153	**Jet - main	1
3	35P2561	548470	*Gasket - main jet carrier plug	1
4	35P2562	405839	Plug - body, main jet carrier	1
5	35P2563	553632	**Spring - needle, idle adjusting	1
6	35P2564	405843	**Needle - idle adjusting	1
7	35P2565	405841	**Pin - float hinge	1
8	35P2566	405858	**Float - assembly	1
9	35P2567	425108	**Screw - bleed, main jet	1
10	35P2568	502186	**Jet - idling, g 45	1
11	35P2569	220025	*Gasket - valve, vacuum ignition control	1
12	35P2570	405866	Valve - control, vacuum ignition	1
13	35P2571	446087	**Jet - accelerator pump, 45	1
14	35P2572	405863	Cover - assembly, with lever, accelerator pump	1
15	35P2573	405851	Lever - accelerator pump	1
16	35P2574	405860	*Diaphragm - assembly	1
17	35P2575	407658	**Spring - diaphragm, accelerator pump	1
18	35P2576	553611	Screw - cover, oval head, countersunk	4
19	35P2577	405850	Rod - lever, accelerator pump	1
20	35P2578	591229	Washer - rod, accelerator pump	1
21	35P2579	513963	Spring - rod, accelerator pump	1
22	35P2580	425848	Clip - choke control	1
23	35P2581	553625	Clip - choke control	1
24	35P2582	553643	Screw - clip, slotted	1
25	35P2583	405865	Cover - assembly, with injection tube	1
26	35P2584	405861	Shaft - choke, with lever	1
27	35P2585	405849	Plate - choke	1
28	35P2586	405835	Screw - plate	2
29	35P2587	425906	Spring - choke shaft	1
30	35P2588	405840	Screw - choke control	1
31	35P2589	405842	*Gasket - valve, float needle	1
32	35P2590	546907	**Needle - assembly, with seat, float valve	1
33	35P2591	425991	*Gasket - cover, float chamber	1
34	35P2592	548397	Screw - cover, float chamber	1
35	35P2593	425104	Housing - throttle plate	1
36	35P2594	425105	Shaft - throttle, with lever	1
37	35P2595	405838	Plate - throttle shaft	1
38	35P2596	553605	Screw - throttle plate	1
39	35P2643	405844	Lever - throttle	1
40	35P2597	405847	Lever - choke, on throttle shaft	1
41	35P2598	405848	Spacer - throttle lever	1
42	35P2644	405837	Spacer - choke lever	2
43	35P2599	519948	Washer - retaining	1
44	35P2600	694311	Nut - hex., throttle shaft	1
45	35P2601	591216	**Spring - idle adjusting screw	1
46	35P2602	553612	**Screw - idle adjusting	1
47	35P2603	405846	Rod - connecting, choke plate lever	1
48	35P2645	405836	Setscrew - housing, throttle plate	1
49	35P2604	405853	*Gasket - body to housing	1
50	35P2605	425456	Screw - housing to body, fillister head	2
	35P2606	546246	*Kit - gaskets, carburetor	1
	35P2607	425812	**Kit - repair, carburetor	1
			NOTE: Kit includes gaskets identified with an asterisk ().	
			NOTE: Kit includes parts identified with a double asterisk ().	

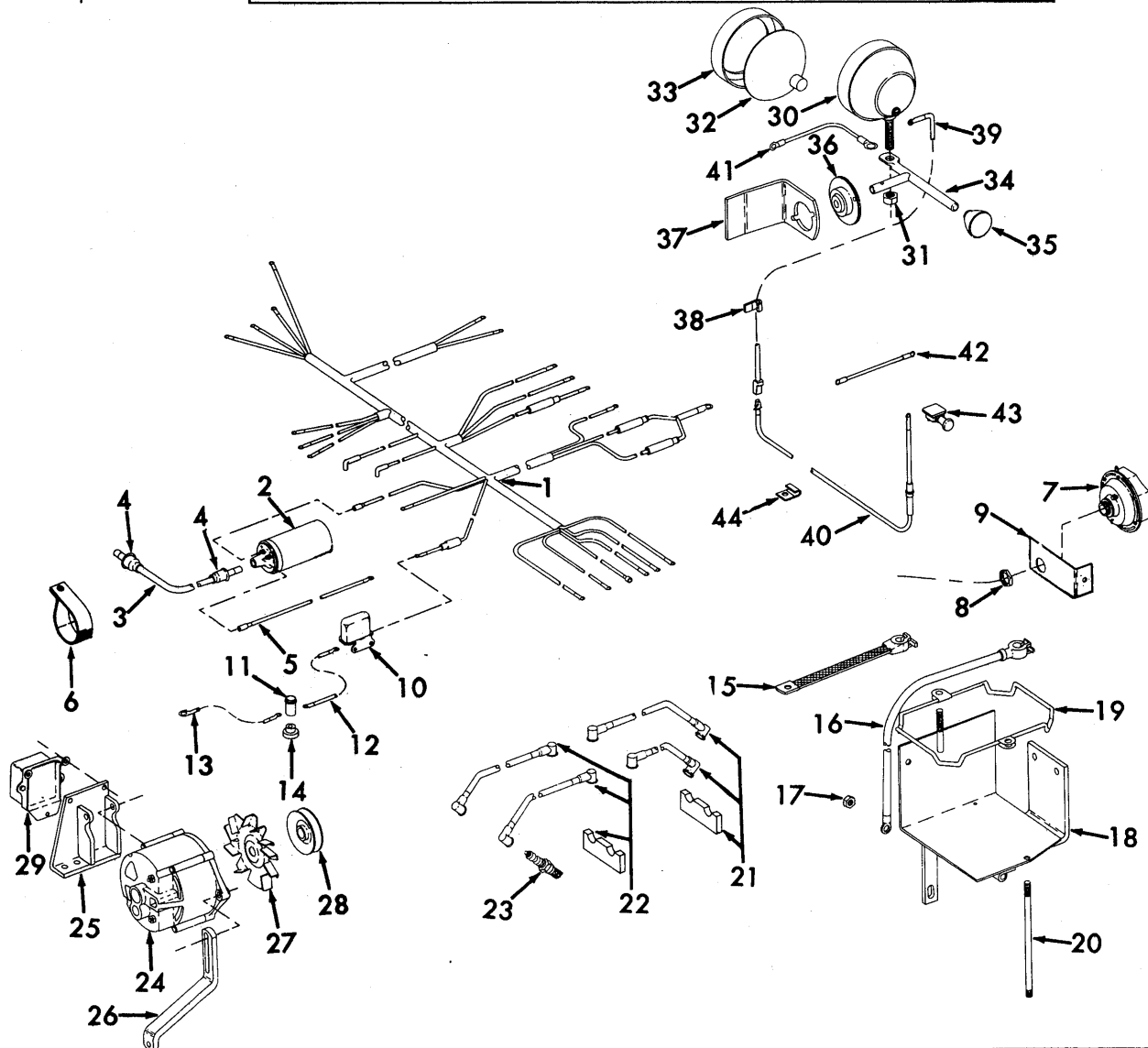


MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		WIRING HARNESS, ALTERNATOR, HORN, BATTERY AND HEAD LAMP	
1	35A9855	Harness - wiring, with 2-14 amp. and 2-20 amp. fuses.....	1
		50A4660 Clip - cable, 3/4" wide x 3/4" with 13/32" hole.....	2
		50A4661 Clip - cable, 7/8" wide x 1" with 17/32" hole.....	4
		50A4664 Clip - cable, 3/4" wide x 1" with 17/32" hole.....	2
		50A771 Clip - harness, 5/8" wide.....	1
2	35P2634	Coil - 12 V., negative ground, internal primary restrictor, (Ind. Ford CONF-12029-A).....	1
3	35P2635	Wire - coil, high tension (Ind. Ford No. 8EQ-12298).....	1
4	35P2636	Nipple - coil wire (Ind. Ford No. A9AZ-12113-A).....	2
5	35A9931	Wire - coil to distributor and transformer to gauges.....	2
6	35P2638	Strap - coil (Ind. Ford No. B6A-12043-A).....	1
		50A3646 Bolt - hex., 1/4"-20 x 3/4".....	1
		50A1898 Nut - hex., 1/4"-20.....	1
		50A3653 Bolt - hex., 5/16"-18 x 1/2".....	1
		50A4202 Washer - plain, 11/32" I.D., 11/16" O.D.	1
		50A4250 Washer - external lock, 5/16".....	1
7	35A7762	Horn.....	
8	35A7761	Nut - horn (Gripco), 7/8"-20.....	1
9	35A10486	Bracket - horn.....	1
		50A3646 Bolt - hex., 1/4"-20 x 3/4".....	1
		50A1898 Nut - hex., 1/4"-20.....	1
10	35A8188	Relay - horn.....	1
11	35A9865	Button - horn.....	1
12	35A7179	Wire - horn button to relay wire, 14 Ga. x 23" long.....	1
13	35A7178	Wire - horn button to ground, 14 Ga. x 21" long.....	1
14	35A9872	Bushing - insulation, horn wire to lever.....	1
15	35A3303	Cable - battery ground.....	1
16	35A3302	Cable - battery to starter.....	1
17	35A10494	Nut - hex., M8 x 1.25.....	1
18	36A8904	Box - battery.....	1
		50A2755 Screw - flat head, hex. socket, 3/8"-16 x 1-1/4".....	2
		50A3655 Bolt - hex., 5/16"-18 x 3/4".....	2
19	35A9868	Hold Down - battery.....	1
		50A4210 Washer - plain, 13/32" I.D., 13/16" O.D.	2
		50A3761 Nut - wing, type A, 3/8"-16.....	2
20	35A7394	Stud - hold down, battery, 3/8"-16 x 8-1/2".....	1
		50A3742 Nut - hex. jam, 3/8"-16.....	2
	10P2839	Battery - 12 volt, 35 amp., type 22F (24 month).....	-
	10P2339	Battery - 12 volt, 42 amp., type 22F (36 month).....	-
	10P2368	Electrolyte - 5 gallon.....	-
	10P2369	Hose - electrolyte dispenser, for 5 gallon container.....	-
21	35P2368	Harness - spark plugs to distributor, front, (Ind. Ford No. C4JZ-12280-A)...	1
22	35P2369	Harness - spark plugs to distributor, rear, (Ind. Ford No. C3JZ-12281-B)....	1
23	35P2367	Spark Plug - engine (Ind. Ford No. AE22).....	4
24	35A8253	Alternator - less fan and pulley (Delco-Remy No. 1100720).....	1
		NOTE: 35A8253 replaces for repairs 10A24612 (Delco-Remy 1100771) factory installed alternator.	
		50A1926 Bolt - hex., 3/8"-16 x 3-1/4".....	1
		50A1986 Nut - hex., lock, 3/8"-16.....	1
25	36A9568	Bracket - alternator.....	1
		50A3673 Bolt - hex., 3/8"-16 x 1".....	2
26	35A9843	Bar - alternator adjusting.....	1
		50A3655 Bolt - hex., 5/16"-18 x 3/4".....	2
		50A4202 Washer - plain, 11/32" I.D., 11/16" O.D.	2
27	35A8249	Fan - alternator, 5-1/4" O.D.	1
28	10A23146	Pulley - alternator, 3-1/32" O.D.	1
29	35A8248	Regulator - alternator (Delco-Remy No. 1119507).....	1
30	10A15240	Lamp - head, with sealed unit.....	1
		Includes the following 2 parts:	
31		50A1911 Nut - hex., 1/2"-13.....	1

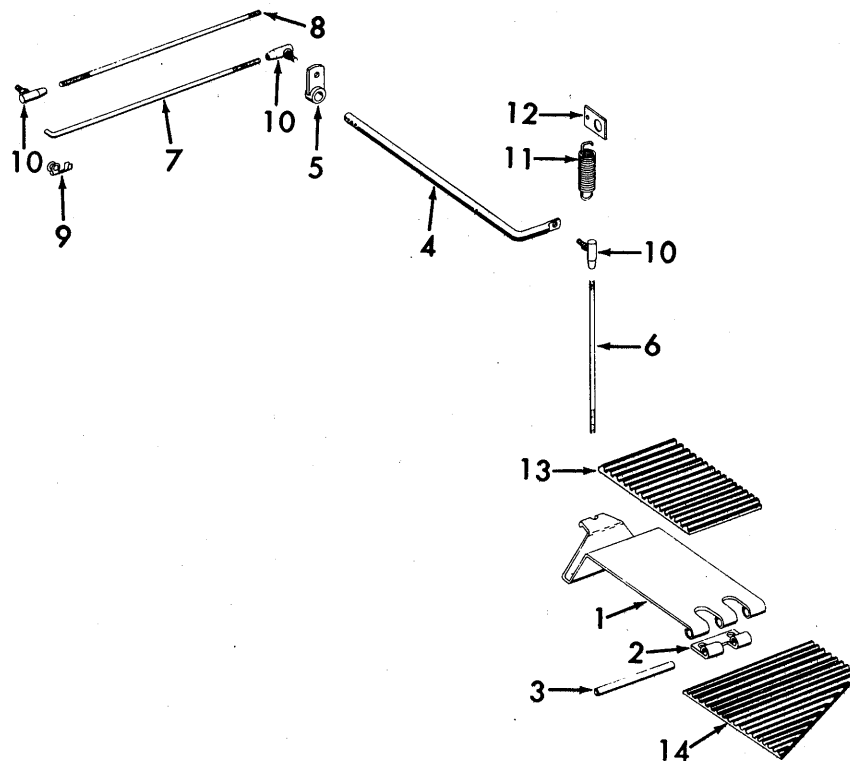
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		WIRING HARNESS, ALTERNATOR, HORN, BATTERY AND HEAD LAMP (Cont'd)	
32	10P1701	Unit - sealed	1
33	10P1702	Retainer - rubber, sealed unit	1
34	36A8598	Handle - assembly, light control	1
		50A2834 Pin - roll, 3/16" x 1-1/2"	1
35	35A8295	Knob - handle	1
		50A4887 Insert - knob	1
36	35A7573	Bearing - handle	1
		50A3646 Bolt - hex., 1/4" -20 x 3/4"	2
		50A1898 Nut - hex., 1/4" -20	2
		50A4204 Washer - plain, 5/16" I.D., 3/4" O.D.	2
		50A4235 Washer - internal lock, 1/4"	2
37	35A8591	Bracket - head lamp, welded to upright	1
38	35A2151	Clip - wire, welds to mast	4
39	35A3009	Wire - connector to light, 71" long	1
40	35A9464	Wire - light switch to connector, with 14 amp. fuse, 14 Ga. x 44-1/4"	1
41	35A6725	Wire - light to ground, 8" long	1
42	35A1068	Wire - light switch to ignition switch, 6" long	1
43	35A8787	Switch - light, in panel	1
44	15A15557	Clip - wire, on drive housing	1



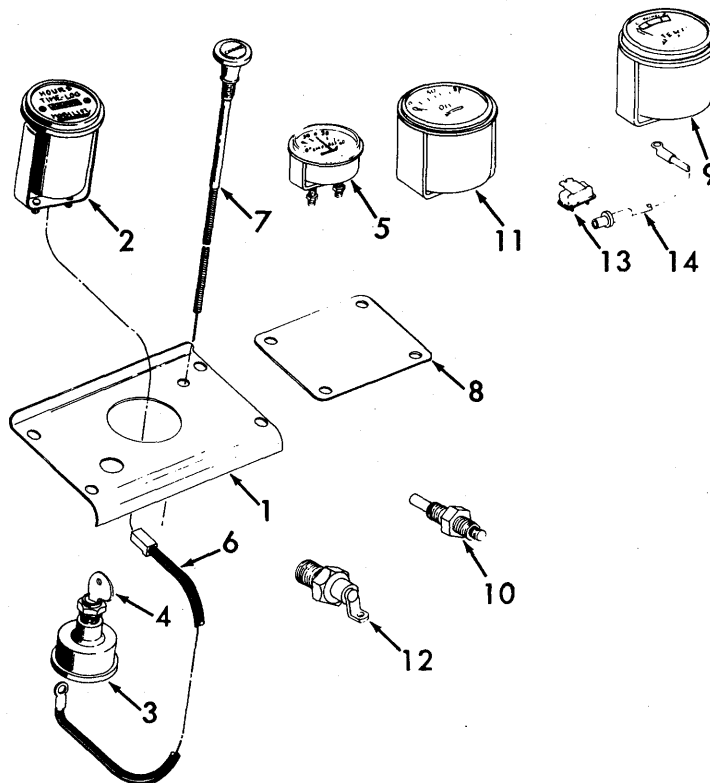
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
THROTTLE CONTROLS			
1	35A9704	Pedal - accelerator.....	1
2	35A6260	Hinge - accelerator pedal.....	1
		GM172450 Screw - hex., self tapping.....	2
3	35A6261	Pin - pedal hinge.....	1
4	35A9707	Lever - rod, L shaped, 3/8" x 13-1/8" long.....	1
		50A4210 Washer - plain, 13/32" I.D., 13/16" O.D.	2
		50A3829 Pin - cotter, 3/32" x 3/4".....	2
5	36A8902	Lever - throttle control.....	1
		50A2837 Pin - roll, 1/8" x 3/4".....	1
6	35A9705	Rod - throttle, lower, 3/16" x 7-3/4".....	1
7	35A9706	Rod - throttle, upper, 3/16" x 11-3/8", gasoline units	1
8	35A10501	Rod - throttle, upper, 3/16" x 10-7/8", LP Gas units	1
9	35A10495	Clip - rod, gasoline units	1
10		50A4316 Ball - joint, #10-32.....	2-3
		50A5001 Nut - hex., #10-32.....	4
11	10A5914	Spring - throttle rod	1
12	FT2451	Strap - spring anchor	1
13	35A9133	Pad - pedal, (neoprene) 4" x 7"	1
14	35A9134	Pad - heel, 3-3/4" x 7" x 7-3/8"	1



MSB SERIES FORK LIFT TRUCKS

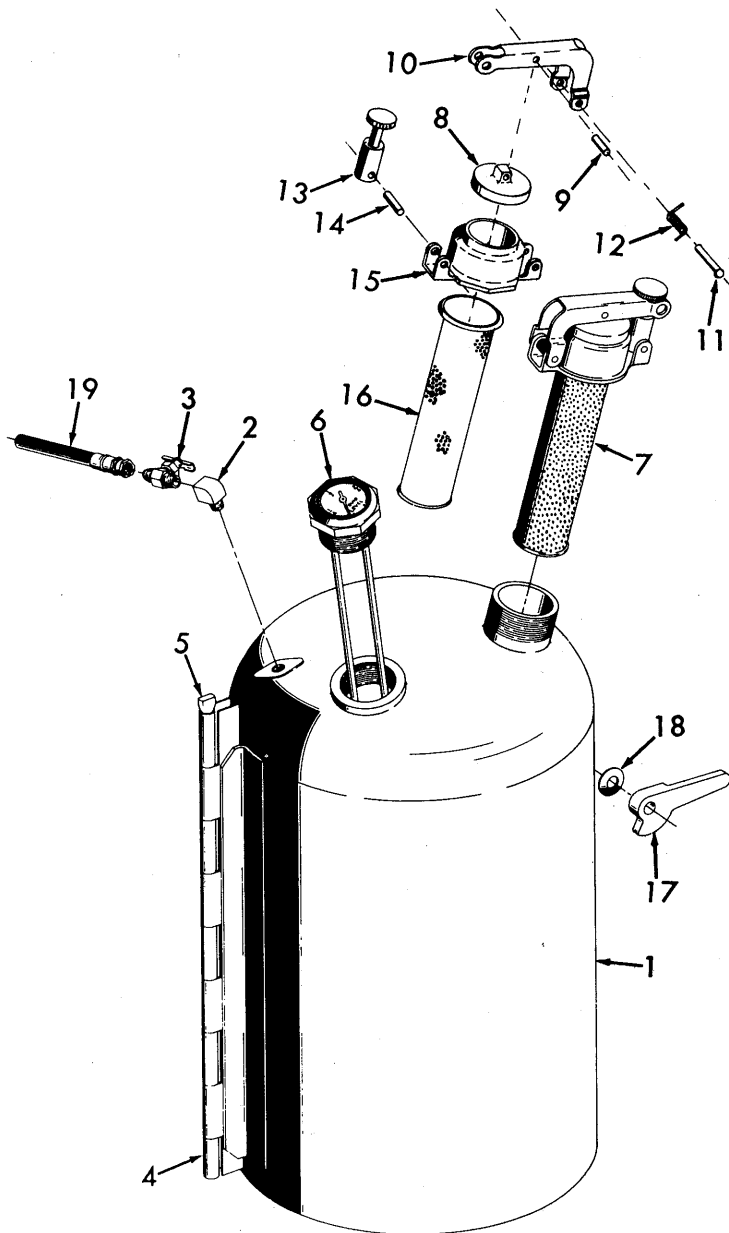
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
INSTRUMENT PANEL AND INSTRUMENTS			
1	35A9954	Panel - instrument	1
		50A3646 Bolt - hex., 1/4"-20 x 3/4"	4
		50A1898 Nut - hex., 1/4"-20	4
2	35A8590	Hour Meter	1
3	10A18229	Switch - ignition and starter	1
		Includes the following part:	
4	10P2703	Key - switch	2
5	35A7738	Gauge - ammeter	1
6	35A4770	Wire - hourmeter to ignition switch	1
7	35A1765	Choke - control, 28" long	1
		50A4244 Washer - internal lock	1
		50A4741 Nut - hex. jam, 3/8"-24 N.F.	1
8	35A6123	Plate - cover, auxiliary valve opening	1
		50A3646 Bolt - hex., 1/4"-20 x 3/4"	4
		50A1898 Nut - hex., 1/4"-20	4
9	35A9928	Gauge - water temperature, (Ind. Ford No. C2JZ-10883-A)	1
10	35P2360	Unit - temperature sending (Ind. Ford No. C3TZ-10883-A)	1
11	35A9929	Gauge - oil pressure, (Ind. Ford No. B7P-9273-B)	1
12	35P2361	Unit - oil pressure sending, (Ind. Ford No. B6A-9278-A)	1
13	35A9930	Transformer - constant voltage, (Ind. Ford No. B9MZ-10804-A)	1
		50A5617 Screw - tapping, No. 10-24 x 3/8"	2
		50A3771 Nut - screw, No. 10-24	2
14	35A9931	Wire - transformer to temperature gauge	1



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		FUEL TANK - GASOLINE	
1	35A9146	Tank - fuel	1
		Includes the following 2 parts:	
2		50A2481 Elbow - tank, 1/8" x 90°	1
3		50A2617 Shut-off, fuel tank	1
		50A954 Plug - drain, 1/8" drain	1
		50A3364 Bolt - hex., 3/8"-16 x 3/4"	10
		50A1900 Nut - hex., 3/8"-16	10
4	35A6312	Hinge - half, mounts to frame	1
5	35A6313	Pin - hinge	1
6	35A4167	Gauge - fuel tank	1
7	35A178	Cap - filler, fire proof	1
		Includes the following 9 parts:	
8	35P55	Cap - filler	1
9	35P468	Pin - filler cap	1
10	35P56	Arm - filler cap	1
11	35P467	Pin - arm to cap	1
12	35P57	Spring - arm	1
13	35P58	Catch - arm	1
14	35P469	Pin - arm catch	1
15	35P59	Flange - screen	1
16	35P60	Screen - assembly	1
17	35A6359	Cam - handle, fuel tank	1
		50A3668 Bolt - hex., 3/8"-16 x 1-1/2"	1
		50A154 Nut - hex., (Nylock), 3/8"-16	1
		50A3635 Washer - plain, 13/32" I.D., 1" O.D.	1
18	30A1541	Washer - belleville	4
19	35A10103	Hose - fuel, pump to carburetor, 1/4" I.D. x 35"	1
		50A3573 Clamp - hose, 7/16"	1
		50A2481 Elbow - carburetor, 1/8"-90°	1

MSB SERIES FORK LIFT TRUCKS



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		LP GAS EQUIPMENT	
	35A5033	*Tank - LP Gas, with fittings, 20 lb.	1
	36A5035	*Support - tank	1
	35A4961	*Hinge - support	2
	15A5346	*Pin - hinge.....	2
		*GM177923 Pin - cotter, 1/8" x 3/4"	2
	35P1774	*Clamp - tank (35A4959 Inter).....	1
	35P1309	*Adapter - relief valve	1
		*50A4601 Elbow - adapter, 3/8" N.P.T. x 45°	1
		*50A4730 Connector - adapter, 3/8" N.P.T.	1
		*NOTE: Used on LP-Gas equipped trucks with 20 lb. tank.	
	D1186	**Tank - LP Gas, with fittings, 33-1/2 lb.	1
	36A8296	**Door - tank service.....	1
	36A8297	**Guide - hood, 1" x 1-1/4"	2
	35A8298	**Brace - hood, 1-1/4" x 29-1/4".....	2
	35A8299	**Guide - hood support, 1" offset, 2" x 2-1/4".....	2
	35A10179	**Support - side member, L.H. offset, 3/8" x 3" x 7-7/8".....	2
		**50A3664 Bolt - hex., 3/8"-16 x 3/4"	4
		**50A3664 Bolt - hex., 3/8"-16 x 1"	8
		**50A1900 Nut - hex., 3/8"-16.....	12
		**50A3668 Bolt - hex., 3/8"-16 x 1-1/2"	1
	35A10177	**Guide - hood support	2
	35A10178	**Support - side member, welds to frame	1
	35P508	**Strap - mounting, fuel tank, left hand	1
	35P516	**Strap - mounting, fuel tank, right hand	1
		**50A3922 Screw - flat head, slotted, 3/8"-16 x 1".....	4
		**50A1900 Nut - hex., 3/8"-16.....	4
		**50A4205 Washer - plain, 7/16" I.D. x 1" O.D.	4
		**NOTE: Used on LP-Gas equipped trucks with 33-1/2 lb. tank.	
	35A10211	Vaporizer - assembly	1
		Includes the following part:	
	35P2255	Kit - vaporizer (includes seals, diaphragm, springs and valve).....	1
	36A9927	Mount - vaporizer.....	1
	36A9928	Adapter - carburetor to air cleaner	1
	35A9563	Band - adapter, 2" O.D. x 1" long	2
	35A10157	Hose - vaporizer to carburetor, 3/8" I.D. x 11" long	1
	35A10158	Hose - engine to vaporizer, 1-1/4" x 1-1/2" I.D. x 3-1/2" long, 15° bend	1
	35A10159	Hose - vaporizer to radiator, 1-1/4" x 1-1/2" I.D. x 85°	1
	35P1084	Solenoid - 12 volt (35A9894 Inter.).....	1
		50A4450 Nipple - pipe, close, 1/4" N.P.T. x 7/8".....	2
		50A2492 Elbow - street, 1/4" N.P.T. x 90°-45° flare.....	1
	35A10212	Carburetor - LP Gas	1
		Includes the following part:	
	35P2256	Kit - carburetor (includes seals, "O" rings, and idle adj. needle).....	1
	35P514	Bulkhead - filter.....	1
		Includes the following 2 parts:	
		GM144355 Elbow - adapter, 1/4" N.P.T. x 3/8"	1
		50A4410 Connector - to body, 3/8".....	1
		GM125700 Lock Washer - internal lock.....	1
	35P1605	Element - filter	1
	35P1608	Spring - filter	2
	35A10155	Hose - assembly, filter to tank, 3/8" I.D. x 14-1/2" long	1
	35A10156	Hose - assembly, 3/8" I.D. x 21" long	1
		50A4386 Elbow - 1/4" N.P.T. x 90° with 45° flare.....	6-5
		50A5119 Elbow - 3/8" N.P.T. x 90° with 45° flare.....	1
	35P519	Coupling - hose to tank, female	1

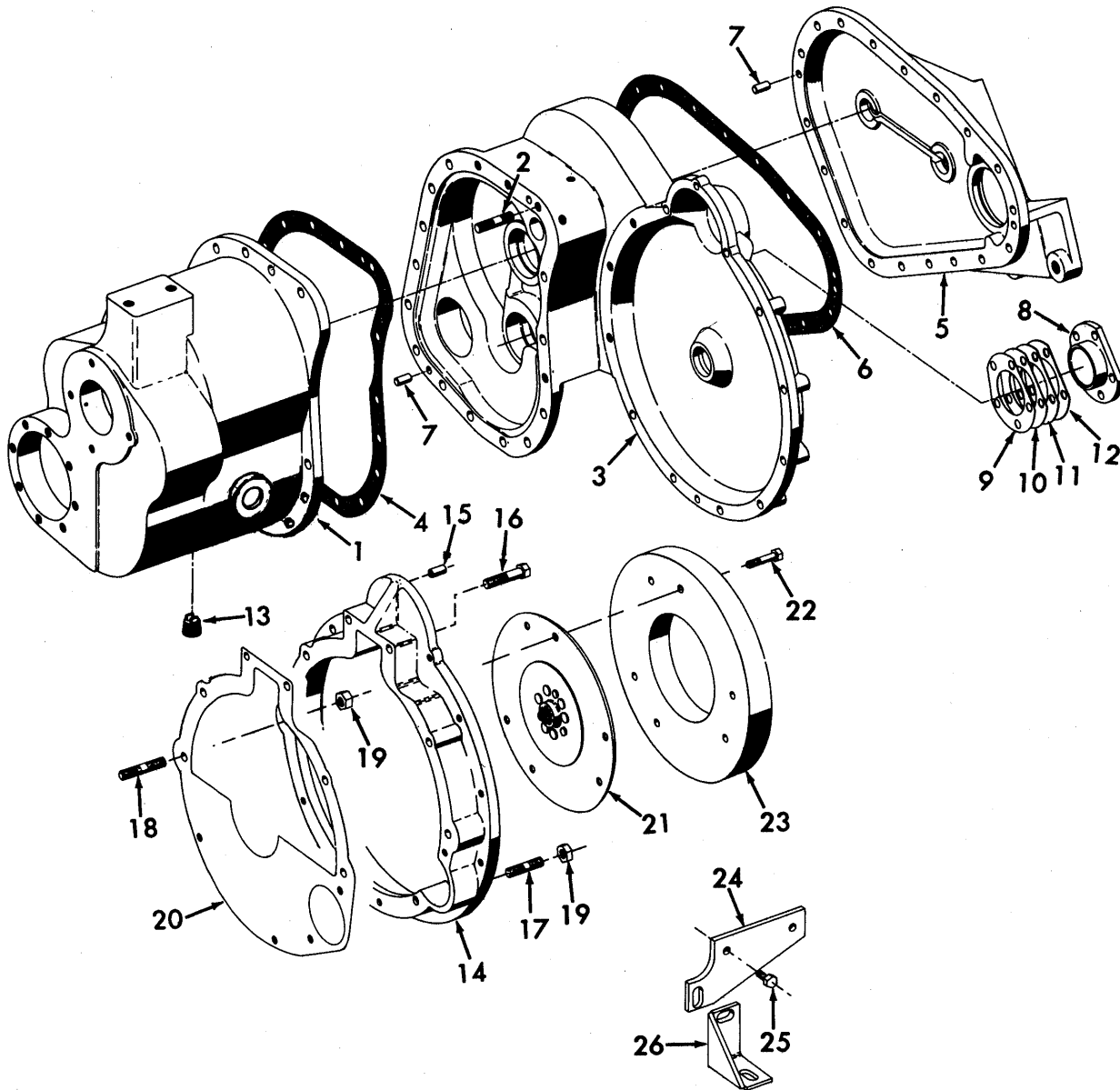
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		LP GAS EQUIPMENT (Cont'd)	
	35P517	Coupling - hose to tank, male	1
		Includes the following 2 parts:	
	30A1701	"O" Ring - coupling	1
	35P1769	Gasket - coupling	1
	35P515	Relief Valve	1
	35P525	Switch - oil pressure	1
		50A4571 Tee - pipe, oil filter	1
		50A2281 Connector - tee, 1/2"	1
		50A1909 Elbow - oil filter, 3/8" x 90°	1
	10A2640	Wire - ignition switch and hydraulic switch to solenoid, 14 Ga. x 30"	3
	35A9563	Band - carburetor (rubber), 1" wide x 2" O.D.	1
		50A4285 Clamp - hose, 1-3/8"	2
		50A4289 Clamp - carburetor, 2-1/4"	1
		50A4554 Bushing - reducer, 3/8" to 1/8"	1
	35A10017	Decal - Instructions, LP-Gas, 2-15/64" x 4"	1
	35A10220	Stud - carburetor, 5/16"-18 x 3-3/8"	2
		50A3730 Nut - hex., 5/16"-18	2

MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
TRANSMISSION CASE			
1	35A9763	Case - transmission.....	1
		50A4445 - Plug, drain, 1/8"-27.....	1
		50A3675 - Bolt, hex., 7/16"-14 x 1-1/2".....	5
		GM180151 - Bolt, hex., 7/16"-14 x 1-3/4".....	6
		50A3676 - Bolt, hex., 7/16"-14 x 2-1/4".....	2
		50A3733 - Nut, hex., 7/16"-14.....	8
		GM186292 - Bolt, hex., 7/16"-14 x 4-1/4".....	2
2	JT1205	Stud - adapter to case.....	2
3	35A4138	Adapter - transmission case.....	1
4	35A4463	*Gasket - adapter.....	1
5	35A4136	Cover - transmission case.....	1
		50A4264 - Ball, cover, 9/32" dia.	1
		50A3667 - Bolt, hex., 3/8"-16 x 1-1/4".....	15
		50A3669 - Bolt, hex., 3/8"-16 x 1-3/4".....	3
6	35A4462	*Gasket - transmission case cover.....	1
7	10A9792	Pin - dowel, cover to case.....	4
8	35A4412	Cap - bearing.....	1
		50A3666 - Bolt, hex., 3/8"-16 x 1".....	5
9	35A4436	*Shim - bearing cap, .002", red.....	A.R.
10	35A4424	*Shim - bearing cap, .003", green.....	A.R.
11	35A4425	*Shim - bearing cap, .005", blue.....	A.R.
12	35A4435	*Shim - bearing cap, .020", yellow.....	A.R.
	35R86	*Kit - gaskets, transmission and differential overhaul.....	-
		NOTE: Kit includes parts identified with a single asterisk ().	
13	35A2112	Plug - pipe, drain (Magnetic).....	1
	35P1755	Oil - transmission, Donax T-4, 1 gallon.....	-
	35P1756	Oil - transmission, Donax T-4, 5 gallon.....	-
ADAPTER HOUSING, DAMPENER DRIVE AND FLYWHEEL RING			
14	35B9575	Housing - adapter, includes dowel pins.....	1
15		50A3847 Pin - dowel, housing, 3/8" x 3/4".....	2
		50A1925 Bolt - hex., 3/8"-16 x 2-1/2".....	7
		50A3667 Bolt - hex., 3/8"-16 x 1-1/4".....	3
		50A3671 Bolt - hex., 3/8"-16 x 2-1/4".....	2
16	35A9946	Bolt - adapter, top, hex., M10 x 60MM long (Ford 233575).....	2
17	35A9947	Stud - adapter, bottom M10 x 1.5 x M10 x 50MM Long (Ford 545943)....	2
18	35A9944	Stud - adapter, center, M10 x 1.5 x M10 x 40MM Long (Ford 545944)....	2
19	35A9945	Nut - studs, M10 x 1 (Ford 204756).....	4
20	35P2370	Plate - engine.....	1
21	35A9502	Dampener - drive, 9-7/8" O.D.	1
22	35A10409	Bolt - hex., M8 x 1-1/4" x 41MM.....	6
		50A4226 Washer - lock, 5/16".....	6
23	35A10410	Ring - flywheel, 1-1/4" thick x 11-3/8" O.D.	1
	35P2647	Flywheel - assembly, (Ind. Ford No. 405071).....	1
		Includes the following part:	
	35P2648	Gear - flywheel, starter ring, (Ind. Ford No. 405073).....	1
	35P2649	Bolt - hex., flywheel to crankcase, (Ind. Ford No. 225605).....	6
MOTOR SUPPORTS			
24	35A9840	Plate - motor support, 1/4" x 3-1/2" x 6-7/8".....	1
25	35A9951	Bolt - hex., M8 x 1.25 thd. x 20MM DIN 931-933.....	2
26	36A9796	Bracket - motor support.....	1
		50A3679 Bolt - hex., 1/2"-13 x 1".....	2
		50A1911 Nut - hex., 1/2"-13.....	1

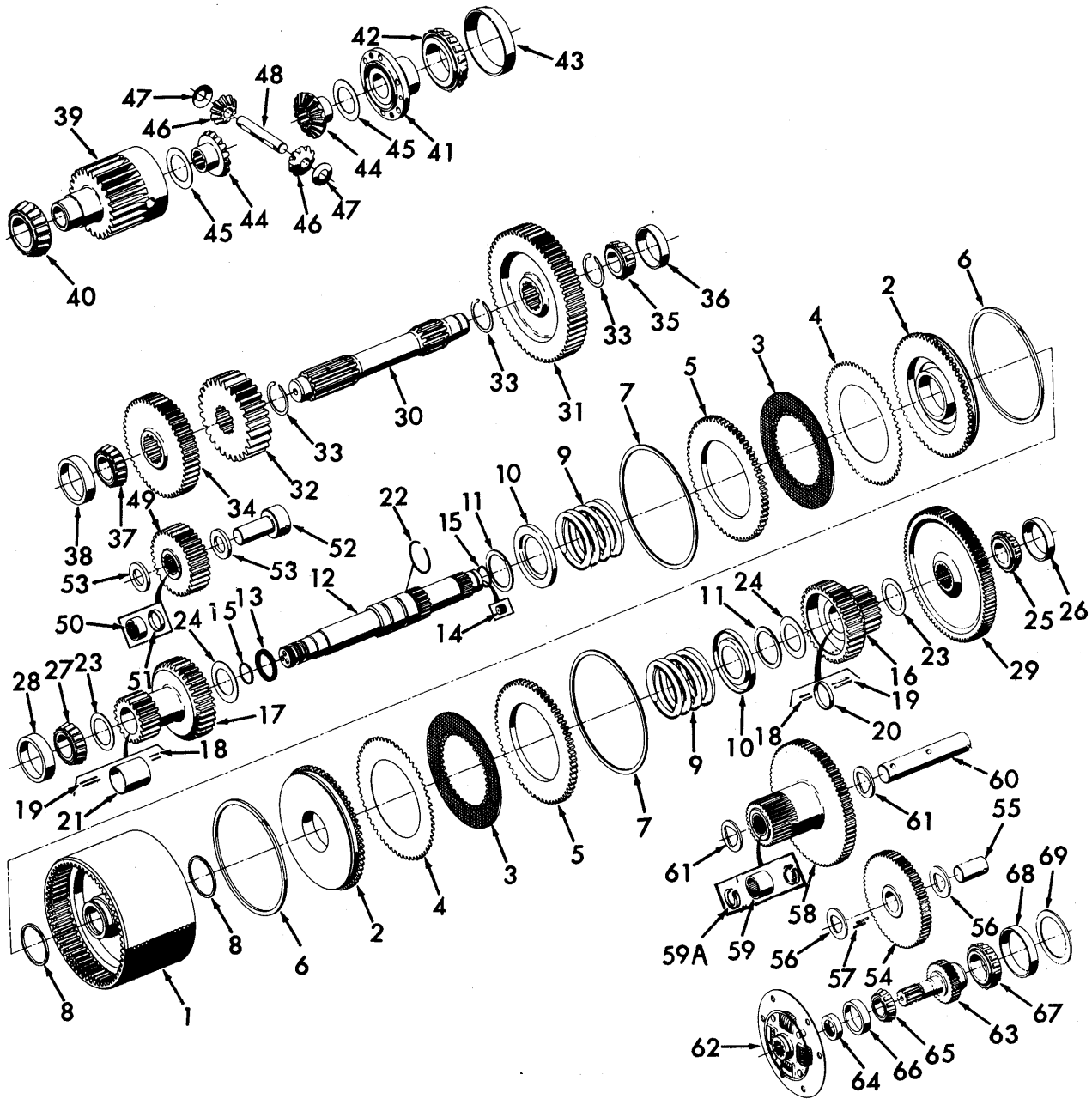
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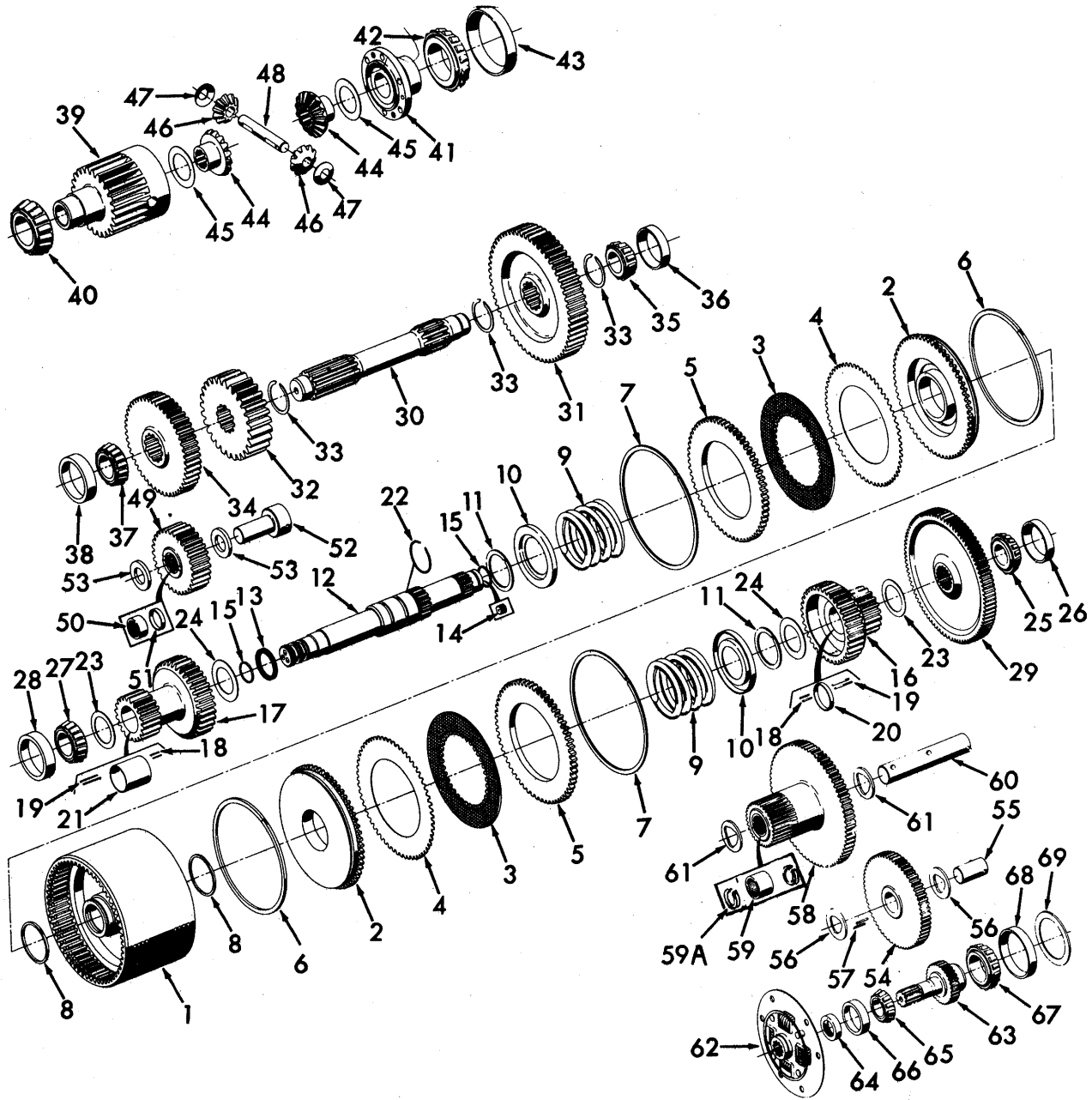
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		TRANSMISSION	
	35R54	Housing - assembly.....	1
		Consists of the following 11 parts:	
1	35A 7710	Housing.....	1
2	36A 6783	Piston.....	2
3	35A 7709	Plate - friction.....	6
4	35A 8268	Plate - backing.....	8
5	35A 335	Ring - back-up.....	2
6	10A 15639	Ring - piston.....	2
7	35A 336	Ring - retainer, back-up ring.....	2
8	35A 355	Ring - oil seal.....	2
9	35A 331	Spring - piston.....	2
10	35A 332	Retainer - spring.....	2
11	35A 849	Ring - snap, spring retainer.....	2
12	36A 3622	Shaft - input, with steel balls and orifice.....	1
		GM145641 - Ball, steel, 5/16".....	2
13	10A 7956	* "O" Ring - input shaft, 1-1/2" I.D. x 1-3/4" O.D.	3
14	35A 7183	Screw - set, socket head, 1/2"-13 x 3/8".....	1
15	35A 341	* Ring - oil seal,	4
	35R86	* Kit - gasket, transmission and differential overhaul	1
		* NOTE: Kit includes parts identified with a single asterisk (*).	
16	35A 4128	Carrier - forward.....	1
17	35A 4131	Carrier - reverse	1
18	10A 6718	Rollers - carrier, short	108
19	35A 7663	Rollers - carrier, long	108
20	35A 7665	Spacer - rollers, short, for 35A 4128 carrier.....	1
21	35A 7664	Spacer - rollers, long, for 35A 4131 carrier.....	1
22		50A 2883 - Ring, back-up, quad. ring.....	1
23	35A 3623	Washer - carrier thrust, outer.....	2
24	35A 7666	Washer - carrier thrust, inner	2
25	10A 7330	Cone - bearing, input shaft.....	1
26	10A 7331	Cup - bearing, input shaft.....	1
27	15A 4702	Cone - bearing, input shaft, valve end.....	1
28	10A 7571	Cup - bearing, input shaft, valve end.....	1
29	35A 3621	Gear - clutch, input shaft	1
30	35A 9882	Countershaft.....	1
31	35A 3613	Gear - forward, on countershaft, 56 teeth.....	1
32	35A 4143	Gear - output, on countershaft	1
33	10A 4732	Ring - retainer, countershaft gears.....	3
34	35A 4142	Gear - reverse, on countershaft.....	1
35	15A 8627	Cone - bearing, countershaft.....	1
36	10A 693	Cup - bearing, countershaft.....	1
37	10A 6752	Cone - bearing, countershaft, valve end.....	1
38	10A 7571	Cup - bearing, countershaft, valve end.....	1
39	35A 4133	Carrier - differential, with gear.....	1
40	35A 4422	Cone - bearing carrier	1
	10A 7607	Cup - bearing, for 35A 4422 cone, Ref. No. 40.....	1
41	35A 6785	Flange - differential carrier	1
		50A 1440 - Screw, counterbore, 3/8" x 16 x 1".....	9
42	35A 4161	Cone - bearing, carrier flange	1
43	10A 7292	Cup - bearing, carrier flange	1
44	35A 8850	Gear - bevel, 16 teeth.....	2
45	35A 7346	Washer - thrust, gear, .0312.....	A.R.
45	35A 7347	Washer - thrust, gear, .0332.....	A.R.
45	35A 7348	Washer - thrust, gear, .0362.....	A.R.
45	35A 8552	Washer - thrust, gear, .039.....	A.R.
45	35A 8710	Washer - thrust, gear, .045.....	A.R.

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Ref. No.	Part No.	DESCRIPTION	No. Pcs.
TRANSMISSION (Cont'd)			
46	35A8854	Pinion - bevel gear, 10 teeth.....	2
47	35A4384	Washer - pinion thrust.....	2
48	35A4385	Shaft - pinion.....	1
		50A2846 - Pin, roll, 3/16" x 1-3/4".....	1
49	36A4140	Gear - reverse idler, with needle bearing and spacers	1
		50A2845 - Pin, roll, 3/16" x 3/4".....	1
50	35A353	Bearing - needle, idler gear.....	2
51	35A6779	Spacer - needle bearing.....	1
52	36A4139	Shaft - reverse, idler gear, with roll pin.....	1
		50A2845 - Pin, roll, 3/16" x 3/4".....	1
		50A979 - Ring, retainer, idler shaft.....	1
53	35A4144	Washer - thrust, reverse gear.....	2
54	35A3614	Gear - idler	1
55	36A3615	Shaft - idler gear, with roll pin	1
		50A2832 - Pin, roll, 3/16" x 1".....	1
56	35A3617	Washer - thrust, idler gear.....	2
57	35A4146	Bearing - needle, idler shaft.....	28
58	36A3618	Gear - compound, idler, with needle bearings and retaining rings.....	1
59	30A1770	Bearing - needle, idler gear	2
59A		50A4792 - Retaining Ring, needle bearing.....	4
60	36A3619	Shaft - idler gear, with roll pin	1
		50A2832 - Pin, roll, 3/16" x 1".....	1
61	35A4148	Washer - thrust, idler gear.....	2
62	35A9502	Dampener - assembly, on flywheel, 9-7/8" O.D.	1
63	35A3609	Gear - input, in dampener.....	1
64	35A4130	*Seal - oil, dampener assembly	1
	35R86	*Kit - gasket, transmission and differential overhaul	1
		NOTE: Kit includes parts identified with a single asterisk ().	
65	35A3607	Cone - bearing, input gear, dampener end.....	1
66	10A14362	Cup - bearing, input gear, dampener end.....	1
67	15A12648	Cone - bearing, input gear, pump end	1
68	15A12647	Cup - bearing, input gear, pump end	1
69	35A4145	Spacer - input gear.....	1

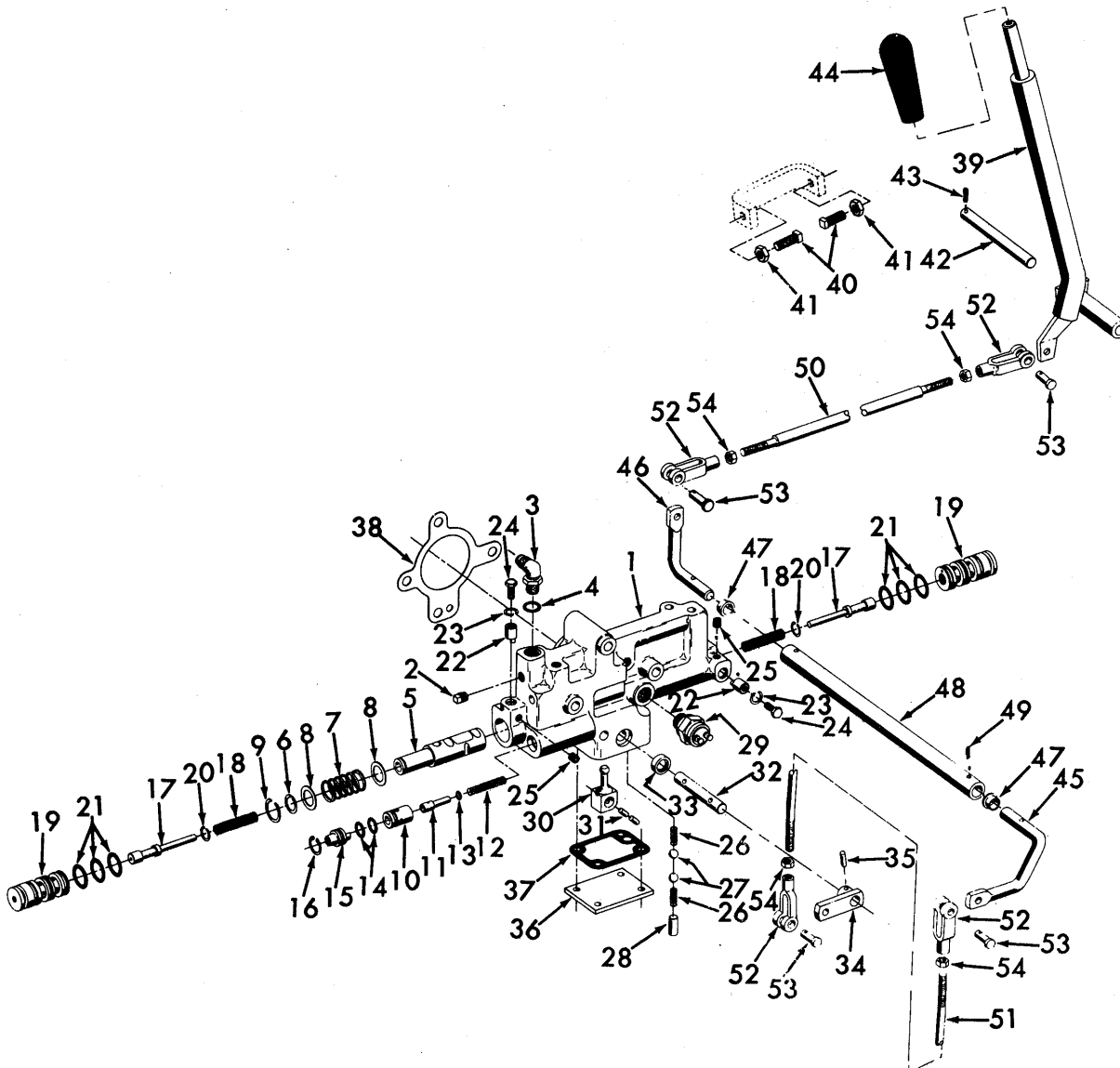


MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		TRANSMISSION CONTROL VALVE AND CONTROLS	
1	39B1487	Valve - assembly, complete.....	1
		Includes the following 25 parts:	
		50A1926 - Bolt, hex., 3/8"-16 x 3-1/4".....	2
		50A1927 - Bolt, hex., 3/8"-16 x 3-1/2".....	2
2		50A4445 - Plug, pipe, 1/8"-27.....	3
3		50A4423 - Elbow, valve, 9/16"-18 x 90°.....	1
4	10A16405	"O" Ring - elbow to valve body.....	1
5	35A8171	Spool - valve, 4-7/16" long.....	1
6		50A2245 - Ring, snap, spool (Spirolox RS75).....	1
7	35A7743	Spring - spool.....	1
8	35A7129	Washer - spool.....	2
9		50A2244 - Ring, snap, washer retainer.....	1
10	35A1250	Valve - relief, 3/4" O.D. x 1-1/8" long.....	1
11	35A1249	Piston - relief valve.....	1
12	35A9999	Spring - relief valve, 15 coils, .366" O.D. x 1-9/16" long.....	1
13	35A8107	Shim - relief valve, 3/8" O.D. x 1/32" thick.....	2
14	10A6329	Seal - "O" ring, valve and block, 3/4" O.D.	2
15	35A5177	Block - valve.....	1
16	10A6330	Ring - snap, block retaining.....	1
17	35A7128	Spool - inching.....	2
18	35A7744	Spring - inching spool, 17-1/2 coils, .383 x 2-5/64" long.....	2
19	35A7127	Spool - control.....	2
20		50A2246 - Ring, snap, spool (Spirolox RR-50).....	2
21	10A9808	Seal - "O" ring, spool.....	6
22	35A7168	Eccentric - hydraulic valve adjusting.....	2
23		50A192 - Ring, snap, eccentric, (Tru-arc N5000-50).....	2
24		50A3646 - Bolt, hex., 1/4"-20 x 3/4".....	2
25		50A2740 - Set Screw, (Nylok), 5/16"-18.....	2
26	35A9341	Spring - detent, 8-1/2 coils, .336 dia. x 27/32" long.....	2
27		50A4266 - Ball, steel, 3/8" dia.	9
28	35A7167	Pin - dowel, valve detent.....	1
29	35A7687	Switch - neutral start, in body.....	1
30	35A8170	Lever - control arm.....	1
31		50A1678 - Pin, roll, 3/16" dia. x 7/16".....	2
32	35A4950	Shaft - control arm, 1/2" x 3-3/8".....	1
33	35A4949	Seal - shaft, control arm.....	1
34	36A9854	Lever - control arm.....	1
35		50A2845 - Pin, roll, 3/16" dia. x 3/4".....	1
36	35A7121	Cover - valve body.....	1
		50A3645 - Bolt, hex., 1/4"-20 x 5/8".....	4
37	35A7122	+ Gasket - cover.....	1
38	35A7170	+ Shim - body to transmission case, .002, red.....	A.R.
38	35A7171	+ Shim - body to transmission case, .003, green.....	A.R.
38	35A7172	+ Shim - body to transmission case, .005, blue.....	A.R.
38	35A7173	+ Shim - body to transmission case, .020, yellow.....	A.R.
	35R86	+ Kit - gasket, transmission and differential overhaul.....	1
		+ NOTE: Parts with cross (+) included in 35R86.	
39	36A8892	Lever - transmission control.....	1
40		50A4084 - Set Screw, cup point, lever adjusting, 3/8"-16 x 1".....	2
41		50A3742 - Nut, hex. jam, 3/8"-16.....	2
42	35A6126	Shaft - lever, 1/2" x 5-1/4".....	1
43		50A2832 - Pin, roll, 3/16" x 1".....	1
44	35A9698	Knob - lever, transmission control, 4-1/2" long.....	1

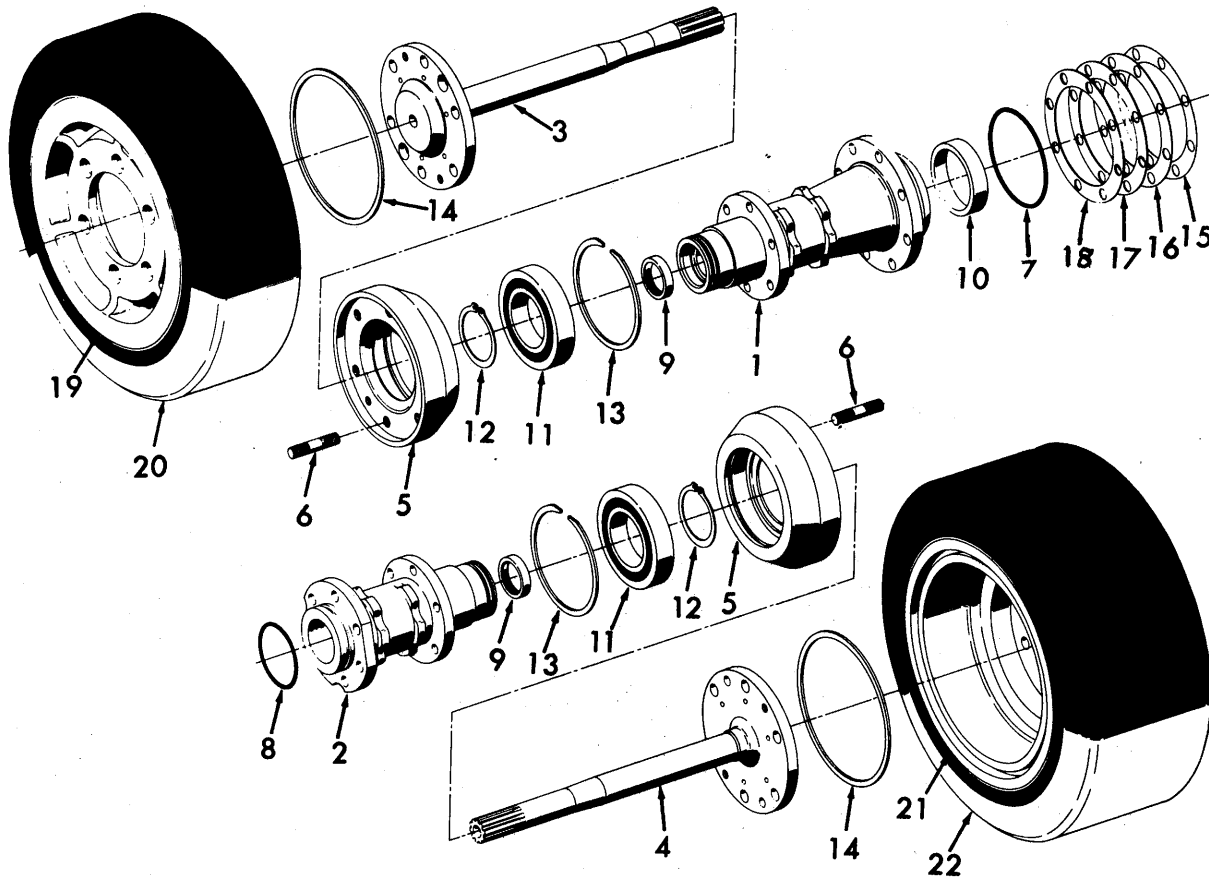
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Ref. No.	Part No.	DESCRIPTION	No. Pcs.
TRANSMISSION CONTROL VALVE AND CONTROLS (Cont'd)			
45	35A9689	Arm - transmission control, left hand	1
46	35A9690	Arm - transmission control, right hand	1
47	35A9866	Bushing - arms, mounts in frame, 5/16" long x 3/4" O.D.	2
48	35A9691	Rod - arms, 7/8" O.D. x 22-1/4"	1
49		50A3859 Pin - rod, (groove), 3/16" x 1".....	2
50	36A8900	Rod - assembly, transmission control, 21-1/2" long.....	1
51	35A9692	Rod - transmission control, 5/16"-24 NF x 14-3/4".....	1
52		50A4275 Clevis - rods, 5/16"-24 NF	4
53		50A3854 Pin - clevis, 5/16".....	4
		50A3829 Pin - cotter, 3/32" x 3/4"	4
54		50A5002 Nut - hex., 5/16"-24 NF.....	4



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
DRIVE AXLE, WHEELS AND TIRES			
1	35A 6298	Housing - axle, left hand.....	1
2	35A 6299	Housing - axle, right hand.....	1
		GM180148 - Bolt, hex., 7/16" -14 x 1-3/8".....	15
3	35A 9884	Shaft - axle, left hand	1
4	35A 9883	Shaft - axle, right hand.....	1
		50A2746 - Screw, flat head, 3/8" -16 x 1".....	4
5	35A 6302	Housing - bearing	2
6	35A 4423	Stud - bearing housing	12
		50A1094 - Nut, wheel, 1/2" -20.....	12
7	10A 8521	*"O" Ring - left hand axle housing	1
8	E 613	*"O" Ring - right hand axle housing	1
9	35A 6400	*Seal - oil, axle housing.....	2
10	10A 7607	Cup - bearing, left hand axle housing, inner.....	1
11	35A 5844	Bearing - ball, axle housing, outer.....	2
12	15A 16066	Ring - retainer, ball bearing, on axle housing, 2-3/8" dia.	2
13		50A1756 - Ring, retaining, in bearing housing, (Tru-Arc N5000-433)...	2
14	35A 6304	*Ring - sealing, wheel to housing.....	2
15	35A 4445	*Shim - left hand axle housing, .002	A.R.
16	35A 4446	*Shim - left hand axle housing, .003	A.R.
17	35A 4447	*Shim - left hand axle housing, .005	A.R.
18	35A 4448	*Shim - left hand axle housing, .020	A.R.
	35R 86	*Kit - gasket, transmission and differential overhaul.....	1
		NOTE: Kit includes parts identified with a single asterisk ().	
	36A 6327	Wheel - with tire, MSB20 and 25.....	2
		Consists of the following 2 parts:	
19	35A 6327	Wheel - less tire, MSB 20 and 25	2
20	35A 4395	Tire - cushion, 16-1/4" x 5" x 11-1/4".....	2
	36A 6305	Wheel - with tire, MSB 30 and 35.....	2
		Consists of the following 2 parts:	
21	35A 6305	Wheel - less tire, MSB 30 and 35.....	2
22	35A 4394	Tire - cushion, 16-1/4" x 7" x 11-1/4".....	2

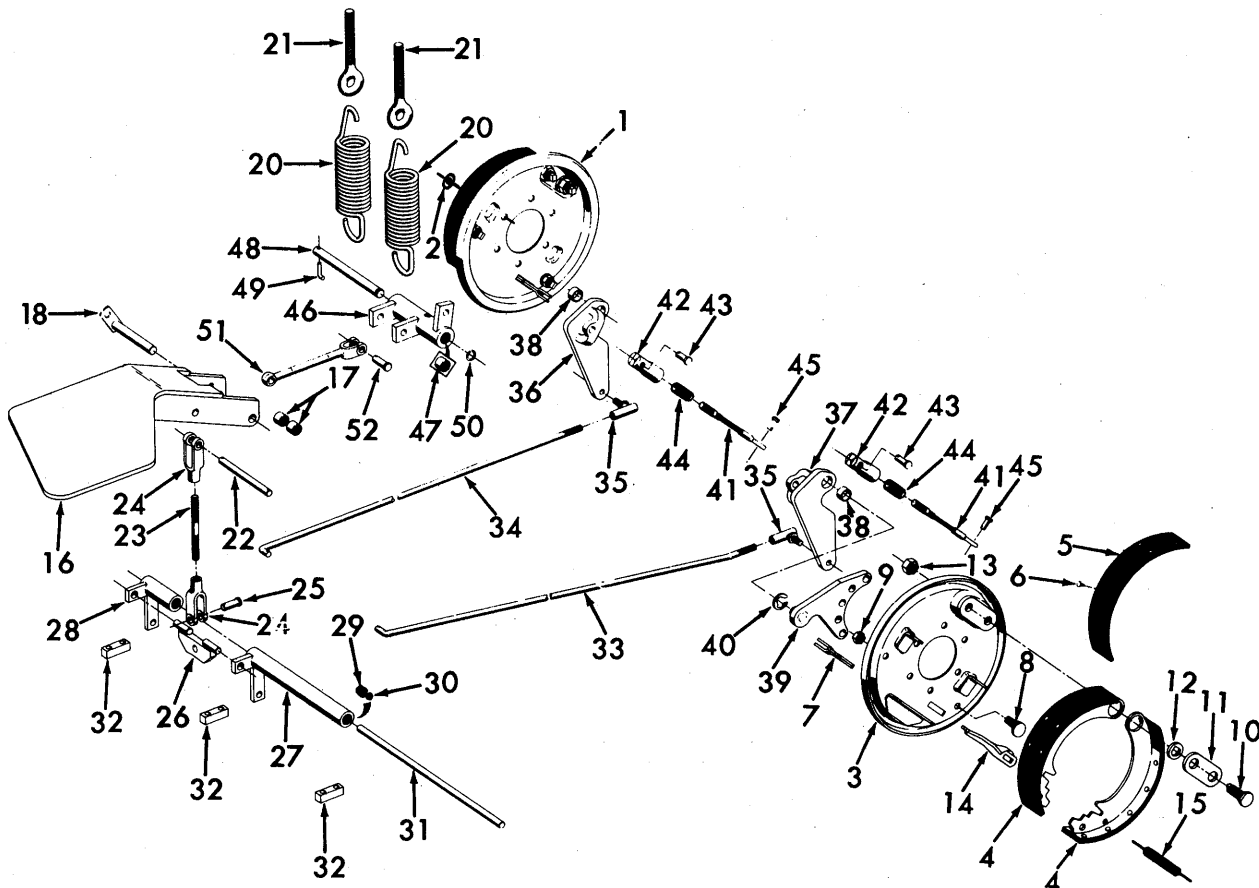


MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
BRAKES AND BRAKE LINKAGE			
1	35A4406	Brake - left hand	1
1	35A4407	Brake - right hand	1
		Each includes ref. #3 thru 15:	
		50A1441 - Bolt, 12 pt., 3/8"-16 x 1-1/4"	11
		50A1155 - Screw, cap, flat head, 3/8"-16 x 1-3/4"	6
		50A1900 - Nut, hex., 3/8"-16	22
		50A1442 - Bolt, 12 pt., 3/8"-16 x 1-1/2"	5
2	35A7881	Washer - flat, (Special) cut, 7/16" I.D., 1" O.D.	10
		50A2653 - Washer, flat, 7/16" I.D., 1" O.D.	12
3	35P1692	Plate - backing, left hand	1
3	35P1693	Plate - backing, right hand	1
4	35P1270	Shoe - assembly, with lining.....	4
		Includes the following 2 parts:	
5	35P1271	Kit - lining, with rivets (enough for 1 truck).....	1
6	JT9127	Rivet - lining	48
7	35P1272	Lever - actuating.....	2
8	35P1273	Eccentric - shoe adjusting.....	4
9		GM120369 - Nut, hex., 3/8"-24.....	4
10	35P1274	Anchor - pin.....	4
11	35P1275	Plate - anchor pin	2
12	35P1276	Cam - anchor pin.....	4
13		GM103028 - Nut, hex., 1/2"-20.....	4
14	35P1277	Strut - actuating lever, L.H.	1
14	35P1278	Strut - actuating lever, R.H.	1
15	35P1279	Spring - shoe return.....	2
16	36A6307	Pedal - brake	1
17	35A7608	Bearing - brake pedal	2
18	36A7610	Shaft - pivot, brake pedal.....	1
		50A3655 - Bolt, hex., 5/16"-18 x 3/4".....	1
20	35A4837	Spring - tension, brake pedal, 16-1/2 coils, 2" O.D.	2
21	35A7250	Eye Bolt - spring, 1/2".....	2
		GM120238 - Nut, hex. jam, 1/2"-13	4
22	35A7798	Shaft - spring mounting.....	1
		GM121222 - Pin, cotter, 3/32" x 3/4".....	3
		50A4210 - Washer, plain, 13/32" I.D., 13/16" O.D.	2
23	35A284	Shaft - brake release.....	1
24		50A4278 - Clevis, adjusting, 3/8"-24	2
25		50A3852 - Pin, clevis, 3/8".....	1
		50A4741 - Nut, hex., jam, 3/8"-24.....	4
26	36A4831	Equalizer - brake.....	1
27	36A7672	Pivot - sleeve, long.....	1
28	36A7671	Pivot - sleeve, short	1
		Each includes the following 2 parts:	
29	35A7669	Bearing - pivot.....	4
30	35A7670	Seal - pivot	4
31	35A7668	Shaft - sleeve pivot.....	1
32	35A4827	Clamp - pivot shaft to frame.....	3
		GM181004 Bolt - hex., 5/16"-24 x 1-1/8"	6
33	35A4820	Rod - brake, right hand.....	1
34	35A4819	Rod - brake, left hand.....	1
		GM120393 - Washer, plain, 11/32" I.D., 11/16" O.D.	2
		GM137141 - Pin, cotter, 1/16" x 5/8".....	2
35		50A4318 - Ball joint	2
		GM124920 - Nut, hex. jam, 5/16"-24	4
36	36A6649	Plate - brake pivot, left hand	1
37	36A6650	Plate - brake pivot, right hand	1
38	35A4830	Bushing - brake plate.....	2
39	36A8525	Plate - mounting	1
40	20H4567	Ring - snap, (Tru-Arc 5133-62).....	2
41	35A5732	Cable - brake.....	1

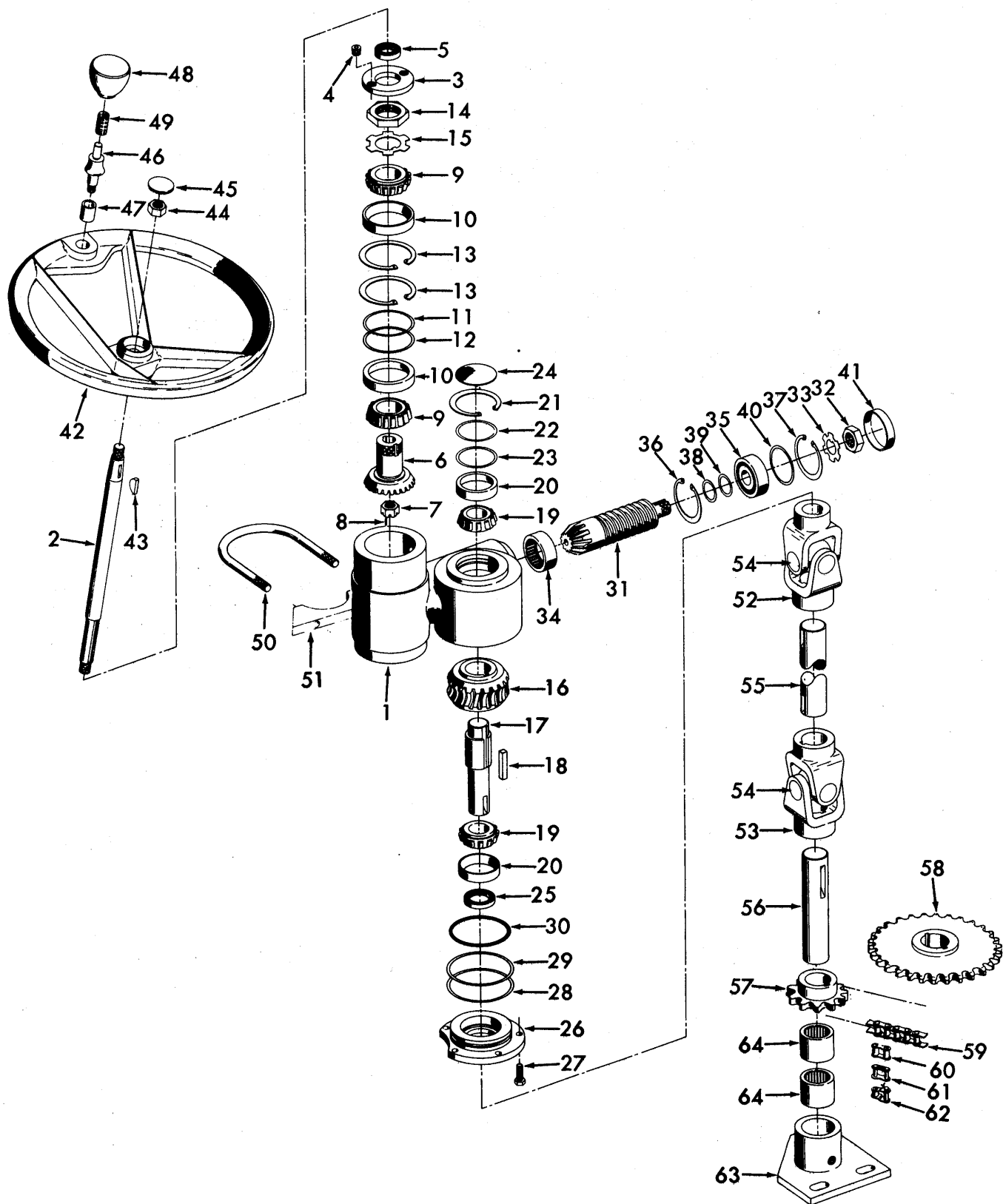
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
BRAKES AND BRAKE LINKAGE (Cont'd)			
42	35A8543	Clevis - brake cable.....	2
43		50A3852 - Pin, clevis, 3/8".....	2
		GM141405 - Pin, cotter, 7/64" x 3/4".....	2
44	35A8544	Stud - reducer bushing, clevis, 5/8"-18 to 3/8"-24.....	2
45		50A3851 - Pin, clevis, 1/4".....	2
		50A3830 - Pin, cotter, 1/16" x 3/4".....	2
46	36A7611	Bell - crank, control rod.....	1
		Includes the following part:	
		GM173102 Fitting - grease, 1-1/8" pipe x 45°.....	2
47	35A7608	Bearing - bell crank.....	2
48	35A7609	Shaft - bell crank, 1/2" x 6-3/16".....	1
49	35A6097	Pin - lock, shaft.....	1
50		50A1827 - Ring, snap, shaft.....	1
51	36A7251	Rod - bell crank to pedal.....	1
52		50A3852 - Pin, rod clevis.....	1
		50A3829 - Pin, cotter, 3/32" x 3/4".....	1



Ref. No.	Part No.	DESCRIPTION	No. Pcs.
STEERING GEAR			
1	35A3580	Housing - steering gear	1
2	35A6254	Shaft - steering	1
3	35A3584	Cover - steering housing	1
4		50A954 - Plug, pipe, 1/8"	2
		50A980 - Lock nut, shaft, (Timken No. 6)	1
		50A981 - Lockwasher, nut, (Timken TW 106)	1
5	10A19477	Seal - oil, steering shaft	1
6	35A3585	Gear - bevel, steering shaft	1
7		GM102647 - Nut, lock gear, 1/2" -20	1
		GM103375 - Pin, cotter, 3/32" x 1-1/4"	1
8	TA438	Key - lock, bevel gear to shaft	1
9	10A7330	Cone - bearing, bevel gear	2
10	10A7331	Cup - bearing, bevel gear	2
11	35A5120	Shim - bevel gear bearings, .005 thick	A.R.
12	35A5119	Shim - bevel gear bearings, .010 thick	A.R.
13		50A984 - Ring, snap, bevel gear bearing (Tru-Arc N5000-237)	2
14		50A980 - Nut, adjusting, bevel gear bearing	1
15		50A981 - Washer, lock, adjusting nut	1
16	35A7749	Gear - worm, right hand steering	1
16	35A7751	Gear - worm, left hand steering	1
17	35A3594	Shaft - worm gear, 4-13/16" long	1
18	PA2131	Key - lock, worm gear to shaft, 1/4" sq. x 1-1/2"	1
19	10A14363	Cone - bearing, worm gear shaft	2
20	10A14362	Cup - bearing, worm gear shaft	2
21	10A17157	Ring - snap, worm gear bearing (Tru-Arc N5000-200)	1
22	35A4102	Shim - worm gear bearing, .005 thick	A.R.
23	35A4104	Shim - worm gear bearing, .010 thick	A.R.
24	35A3582	Plug - expansion, worm gear opening, 2-1/16" dia.	1
25	35A3596	Seal - oil, worm gear shaft	1
26	35A3581	Cover - worm gear shaft	1
27		50A988 - Bolt, hex., Nylock, 1/4" -20 x 3/4"	5
28	35A5121	Shim - cover, .002 thick	A.R.
29	35A5122	Shim - cover, .003 thick	A.R.
30	M539	"O" Ring - cover, 2-55/64" I.D., 3-9/64" O.D.	1
31	35A7748	Worm - steering, right hand steering	1
31	35A7750	Worm - steering, left hand steering	1
32		50A985 - Nut, lock, steering worm (Timken No. 4)	1
33		50A986 - Washer, lock nut (Timken TW 104)	1
34	35A3593	Bearing - needle, steering worm	1
35	10A735	Bearing - ball, steering worm	1
36	30A1567	Ring - snap, ball bearing, inner (Tru-Arc N5000-206)	1
37		50A982 - Ring, snap, ball bearing, outer (Tru-Arc N5002-206)	1
38	35A4103	Shim - ball bearing, inner, .005 thick	A.R.
39	35A4101	Shim - ball bearing, inner, .010 thick	A.R.
40	35A3592	Shim - ball bearing, outer, .005 thick	A.R.
41	35A3583	Cover - steering worm	1
42	35A4791	Wheel - hand, steering	1
43		50A5190 - Key, Woodruff, No. 11, 3/16" x 7/8"	1
44		50A158 - Nut, hex., (Nylock), 1/2" -13	1
		50A3820 - Pin, cotter, 3/32" x 1-1/4"	1
45		GM142098 - Plug, button, hand wheel, 1-1/4"	1
46	35A8613	Shaft - spinner knob	1
		50A4210 - Washer, plain, 13/32" I.D., 13/16" O.D.	1
		50A155 - Nut, hex., (Nylock), 3/8" -24	1
47	35A4794	Bushing - spinner shaft	1
48	35A8295	Knob - spinner, hand wheel	1
49		50A4887 - Insert, knob	1
50	35A6256	"U" Bolt - steering gear mounting	1
		50A4938 - Nut, hex., 3/8" -24	2

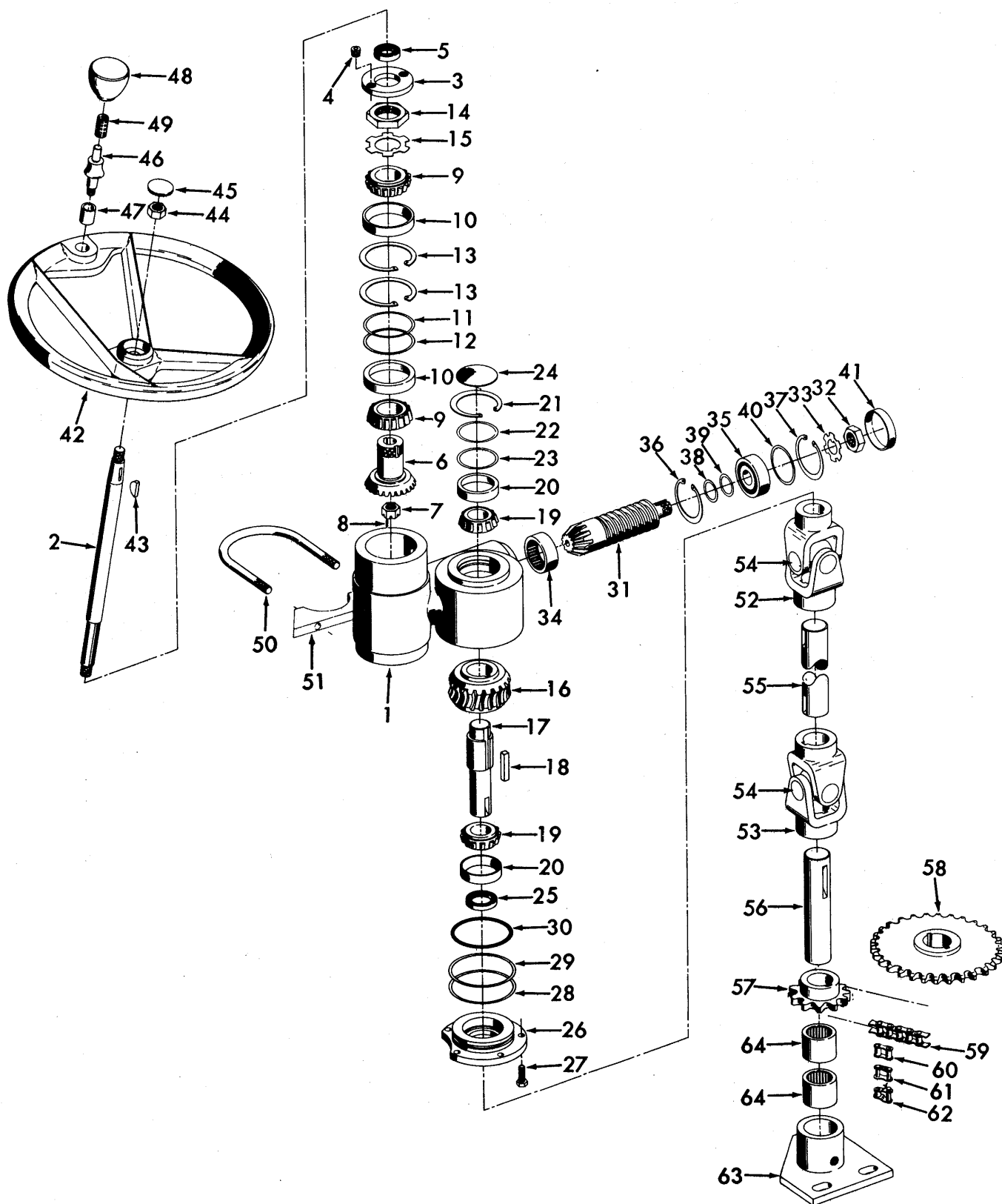
MSB SERIES FORK LIFT TRUCKS



MSB SERIES FORK LIFT TRUCKS

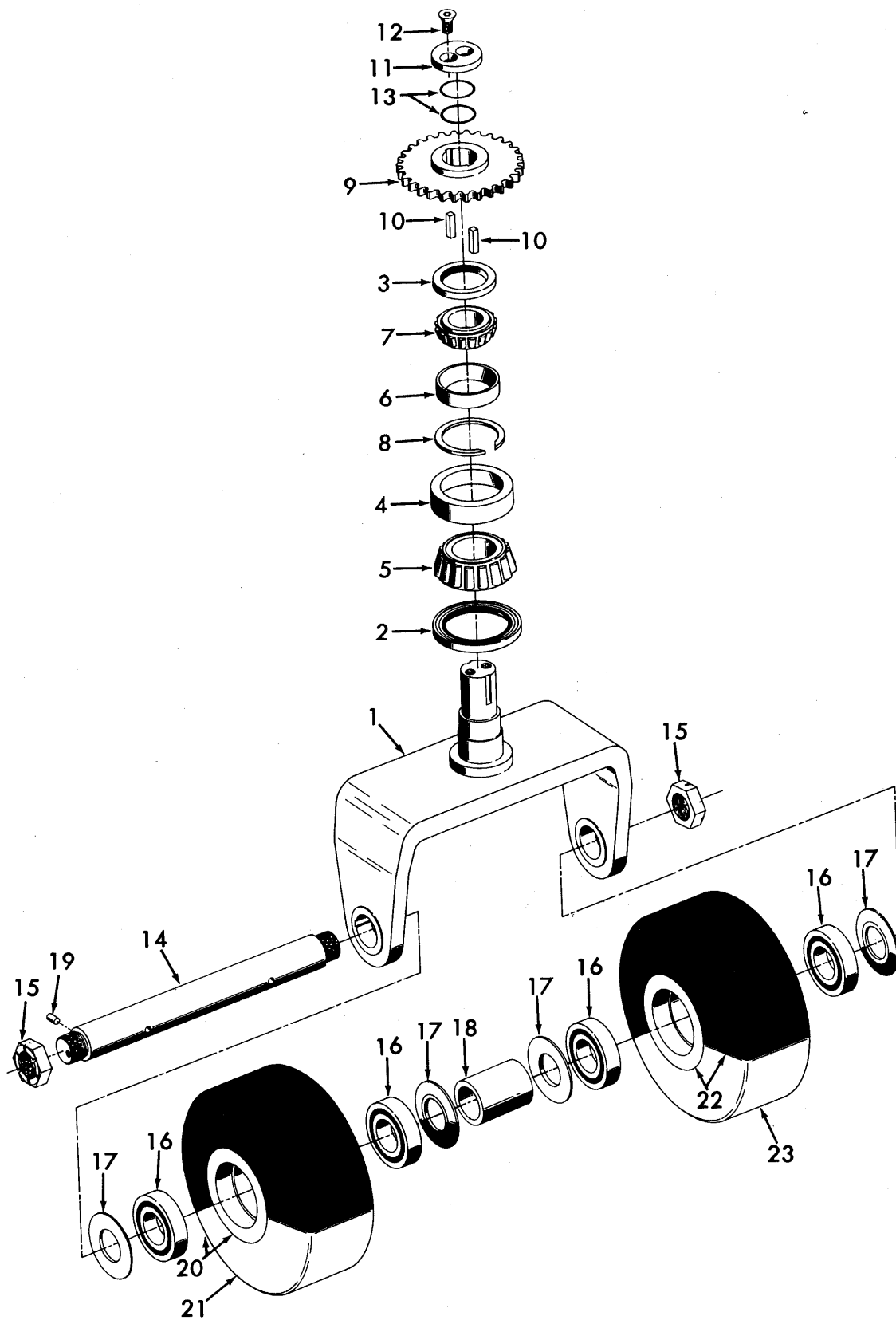
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
STEERING GEAR (Cont'd)			
51	35A 6107	Clamp - steering gear housing.....	1
52	35A 7295	U-Joint - steering shaft, upper	1
53	35A 7296	U-Joint - steering shaft, lower	2
		Each includes the following part:	
		GM113782 - Key, Woodruff, No. 15	1
		50A 5199 - Key, Woodruff, No. 21	2
		50A 4055 - Set Screw, hex. socket, cup point, 3/8" -16 x 3/4".....	4
		50A 3742 - Nut, hex. jam, 3/8" -16.....	4
54	10P 715	Kit - center cross.....	2
55	35A 9864	Shaft - steering, between joints, 1-1/4" dia. x 12-3/8"	1
56	35A 7298	Shaft - steering sprocket, 1-1/4" dia. x 5-3/4"	1
		50A 5209 - Key, Woodruff, No. 27.....	1
		50A 2614 - Washer, plain, 1-17/64" I.D., 1-11/16" O.D.	3
		50A 3412 - Washer, plain, 1-17/64" I.D., 2" O.D.	1
57	35A 8068	Sprocket - shaft, steering, 13 teeth.....	1
58	35A 8641	Sprocket - pivot yoke shaft, 31 teeth	1
59	35A 8642	Chain - 5/8 P., steering gear to sprocket, 71 links, use 15P927 MSB20-25 ..	1
	15P927	Chain - 10 feet of 5/8" pitch roller chain (Approx. 192 links)	-
60	15P928	Link - roller.....	-
61	9055C	Link - connecting	-
62	15P929	Link - offset.....	-
63	36A 7299	Cage - shaft, steering sprocket.....	1
		50A 3680 - Bolt, hex., 1/2" -13 x 1-1/4".....	3
		50A 4212 - Washer, plain, 17/32" I.D., 1-1/16" O.D.	3
		GM109365 - Fitting, grease, 1/8" -90°	2
64	35A 1847	Bearing - cage, needle	2

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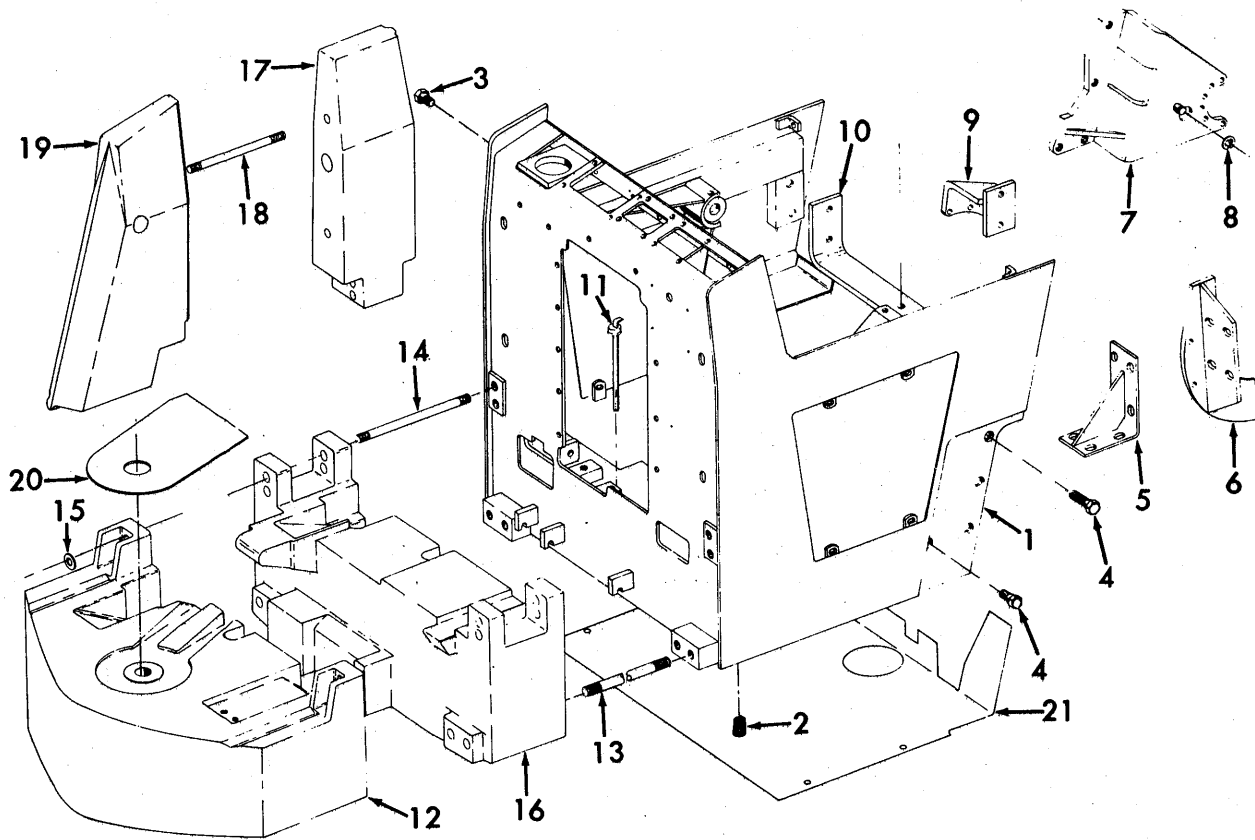
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
STEERING AXLE AND WHEELS			
1	35A3602	Yoke - pivot, steering wheels.....	1
2	35A4109	Seal - oil, pivot yoke, lower.....	1
3	35A3603	Seal - oil, pivot yoke, upper.....	1
4	10A7607	Cup - bearing, pivot yoke, lower.....	1
5	10A8409	Cone - bearing, pivot yoke, lower.....	1
6	10A7052	Cup - bearing, pivot yoke, upper.....	1
7	10A7051	Cone - bearing, pivot yoke, upper.....	1
8		50A987 - Ring, snap, upper bearing.....	1
9	35A8641	Sprocket - pivot yoke shaft, 31 teeth.....	1
10	F444	Key - shaft to sprocket.....	2
11	35A4123	Plate - retainer, sprocket to shaft.....	1
12		50A648 - Screw, plate retainer, 3/8"-16 x 3/4".....	2
13	35A4110	Shim - retainer plate, .005 thick.....	A.R.
13	35A4111	Shim - retainer plate, .010 thick.....	A.R.
13	35A7826	Shim - retainer plate, .042 thick.....	A.R.
14	35A4124	Shaft - axle, steering wheels.....	1
15		50A5563 Nut - axle shaft, elastic stop, 1-1/8"-12.....	2
		50A4636 - Fitting, grease, 1/4"-28, 90°.....	2
16	F399	Bearing - ball, axle shaft.....	4
17	K391	Slinger - oil, axle shaft, outer.....	4
18	35A4122	Spacer - pivot yoke, MSB 20-25 only, 2-1/8" long.....	1
19	T171	Pin - steering axle to pivot yoke.....	1
20	36A4108	Wheel - steering, with cushion tire, for MSB 20-25.....	2
21	35A4107	Tire - cushion, 4 x 4 x 8-1/2, for MSB 20-25.....	2
22	36A4120	Wheel - steering, with cushion tire, for MSB 30-35.....	2
23	R395	Tire - cushion, 5 x 5 x 9, for MSB 30-35.....	2



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Ref. No.	Part No.	DESCRIPTION	No. Pcs.
FRAME AND COUNTERWEIGHT			
1	36A9798	Frame - main.....	1
2	35A8239	Plug - magnetic, 3/4"-14, recessed sq. hd.	1
3	35A7354	Bolt - frame to drive train, L.H. side, 5/8"-11 x 1-1/2".....	4
4	35A5926	Bolt - frame to drive train, R.H. side, 5/8"-11 x 1-7/8".....	4
5	36A7115	Bracket - on top of hydraulic tank	1
6	36A7117	Support - bracket to drive train.....	1
		50A3691 - Bolt, hex., 5/8"-11 x 1-1/4".....	4
		50A3692 - Bolt, hex., 5/8"-11 x 1-1/2".....	4
		GM131016 - Washer, plain, 2/32" I.D., 1-5/16" O.D.	12
		GM124589 - Nut, hex., 5/8"-11	4
7	36A9853	Support - drive train, left hand axle	1
8	20H4567	Snap Ring - support (Tru-Arc 5133-62)	1
9	36A7245	Tie - frame, right hand.....	1
10	35A7243	Tie Bar - frame, left hand side.....	1
		50A3687 - Bolt, hex., 1/2"-13 x 1-1/2".....	4
11	35A8039	Dipstick - hydraulic tank less breather.....	1
12	36A4464	Counterweight - MSB 20-25, (Order from White Mobilift Sales Dept.)	1
12	35A9894	Counterweight - MSB 30-35, (Order from White Mobilift Sales Dept.)	1
		GM271750 Bolt - hex., 5/8"-18 x 2-1/2".....	4
		GM131016 Washer - plain, 21/32" I.D., 1-5/16" O.D.	4
13	35A6198	Stud - counterweight, 3/4" x 4-1/4", MSB 20-25.....	4
		50A4214 Washer - plain, 21/32" I.D., 1-1/2" O.D.	4
		50A4874 Nut - hex., 3/4"-16.....	4
13	35A9890	Stud - counterweight, 3/4" x 12-1/2", MSB 30-35.....	4
		50A1830 Nut - hex., lock, 3/4"-16.....	4
14	35A9889	Stud - counterweight, 5/8" x 11-1/4", MSB 30-35.....	4
		50A1024 Nut - hex., lock, 5/8"-18.....	4
15	35A9473	Washer - stud, 21/32" I.D., 1-5/16" O.D.....	4
16	35A9472	Counterweight - between frame and counterweight, MSB 30-35.....	1
17	35A9470	Counterweight - between wing weight and frame, L.H., MSB 30-35.....	1
17	35A9471	Counterweight - between wing weight and frame, R.H., MSB 30-35.....	1
18	35A9891	Stud - counterweight, 1/2" x 9-1/2", MSB 30-35.....	4
19	35A4466	Counterweight - auxiliary, for MSB 25-35	2
		50A3680 Bolt - hex., 1/2"-13 x 1-1/4"	4
		50A4212 Washer - plain, 17/32" I.D., 1-1/16" O.D.	4
20	36A9843	Cover - chain, MSB 20-25.....	1
20	36A8868	Cover - chain, MSB 30-35.....	1
21	35A9746	Pan - belley, main frame, 32-1/4 wide x 22-1/8".....	1

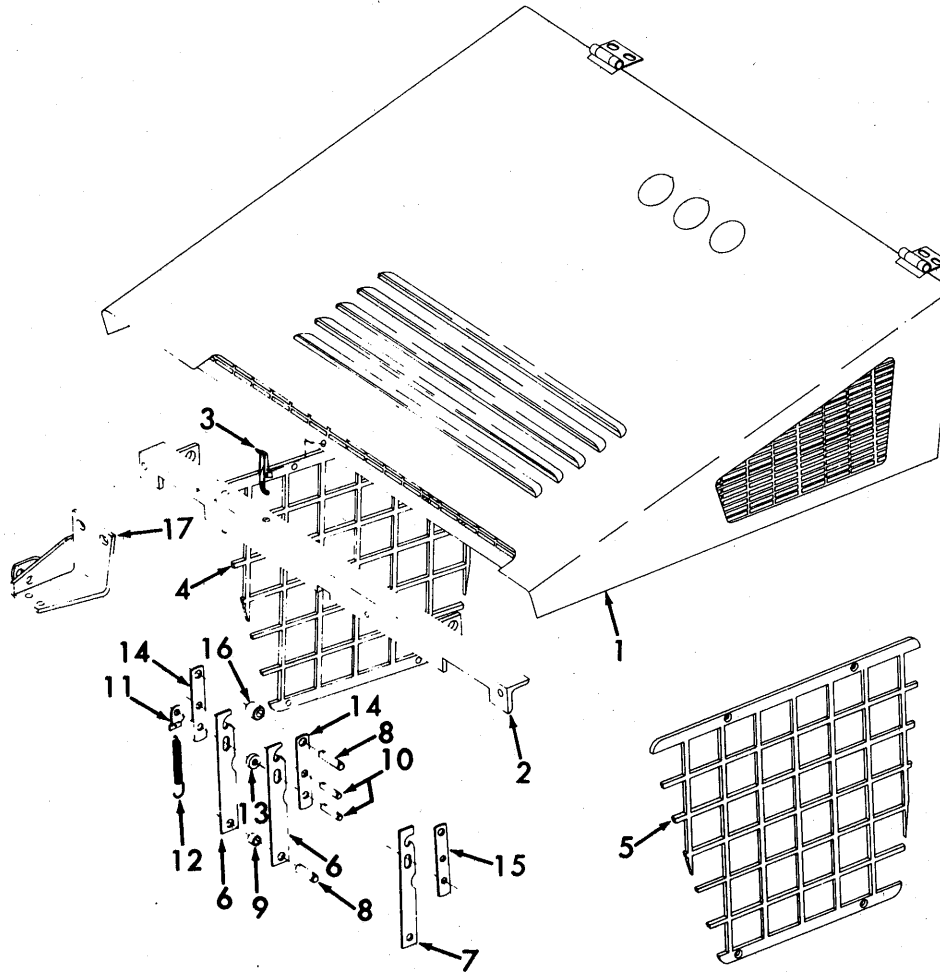
MSB SERIES FORK LIFT TRUCKS



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs
HOOD, SIDE GRILLE AND OVERHEAD GUARD			
1	36A9858	Hood	1
		50A3655 Bolt - hex., 5/16"-18 x 3/4"	4
		50A3730 Nut - hex., 5/16"-18	4
2	36A8901	Bar - angle, hood bumper, 31-1/2" long	1
		50A3666 Bolt - hex., 3/8"-16 x 1"	2
		50A1900 Nut - hex., 3/8"-16	2
3	36A1807	Catch - hood	1
		50A3644 Bolt - hex., 1/4"-20 x 1/2"	1
		50A1898 Nut - hex., 1/4"-20	1
4	35A10259	Grille - frame, R.H.	1
5	35A9880	Grille - frame, L.H.	1
		50A3917 Screw - flat head, 1/4"-20 x 3/4"	8
		50A4870 Fastener - screw	8
6	35A6709	Link - hood latch, lower, on units less overhead guard	2
7	35A8173	Link - hood latch, lower, on units with overhead guard	2
8	D684	Shaft - link to control bracket and hood, 3/8" x 1-5/8"	2
9	35A6069	Spacer - between links, on shaft	1
10	35A6713	Shaft - links, 5/16" x 1-7/16"	2
		50A3829 - Pin, cotter, 3/32" x 3/4"	8
11	35A6070	Hook - spring, on shaft	1
12	35A6072	Spring - tension, on lower shaft, 34-3/4 coils, 3/8" O.D.	1
13	M143	Spacer - link	1
14	35A6714	Link - hood latch, upper, on units less overhead guard	2
15	35A8172	Link - hood latch, upper, on units with overhead guard	2
		50A4202 - Washer, plain, 11/32" I.D., 11/16" O.D.	4
16	10A8657	Spacer - link, upper	1
17	36A6162	Bracket - hood latch	1
		50A3666 Bolt - hex., 3/8"-16 x 1"	2
		50A3656 Bolt - hex., 5/16"-18 x 1"	1
		50A3730 Nut - hex., 5/16"-18	1
		GM120393 Washer - plain, 11/32" I.D., 11/16" O.D.	2
	----	Guard - overhead, order from White Mobilift Sales Dept.	1

MSB SERIES FORK LIFT TRUCKS

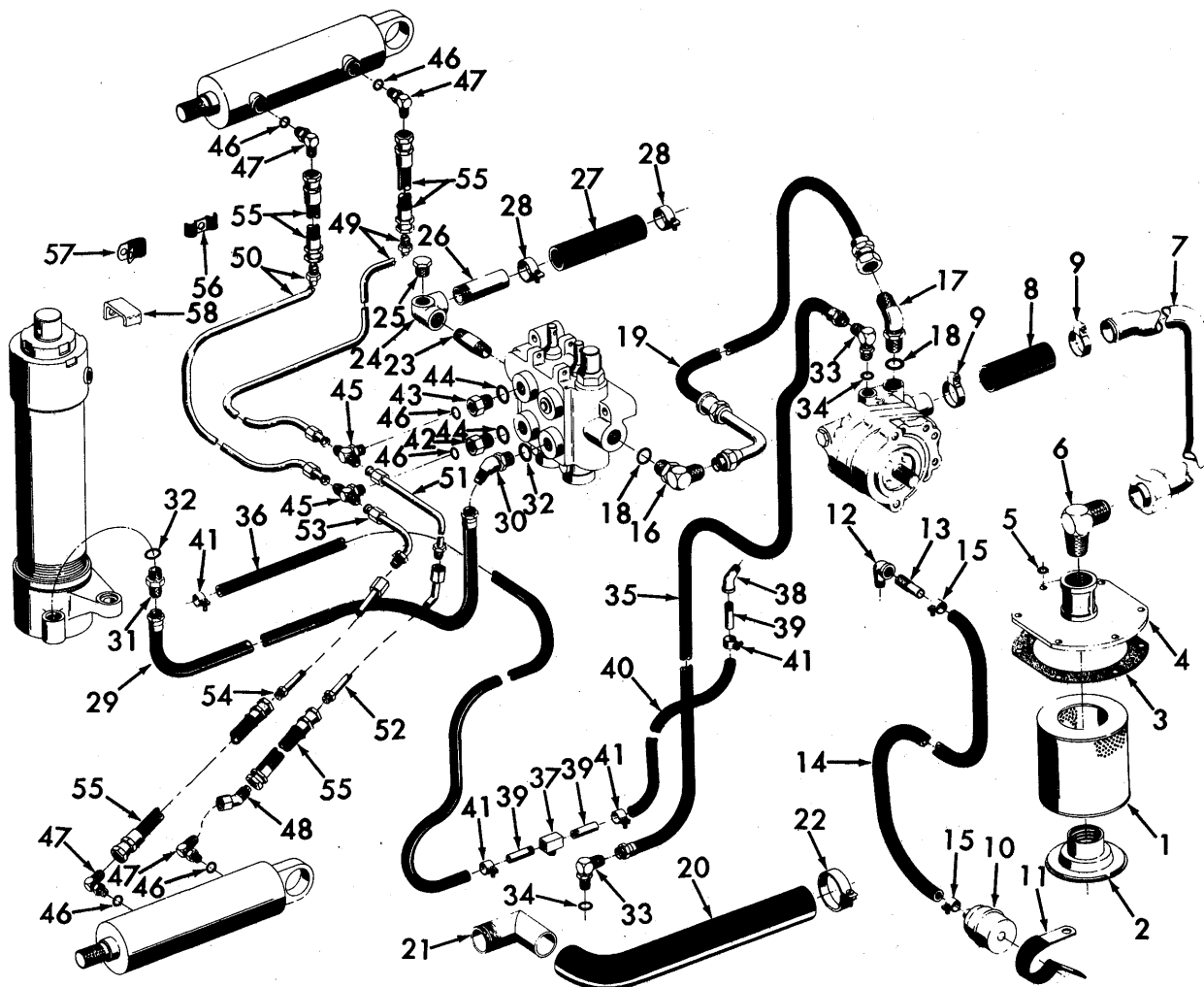


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Ref. No.	Part No.	DESCRIPTION	No. Pcs.
OIL LINES AND FILTER			
1	35A8018	Filter - assembly, 5-1/8" O.D. x 4-13/16" long	1
2	35A8019	Valve - filter	1
3	35A8033	Gasket - filter	1
4	36A8618	Cover - hydraulic filter	1
		50A3657 - Bolt, hex., 5/16"-18 x 1-1/4"	6
		50A4221 - Washer, plain, 3/8" I.D., 7/8" O.D.	6
5		50A1749 - Stat-o-seal, cover bolts, 5/16" I.D.	6
6		50A4890 - Elbow, cover, 1-1/4" pipe to 1-5/8"-12 JIC-90°	1
7	35A8621	Tube - filter, curved, 1-1/4" O.D. x 20-1/4" long	1
8	35A8614	Hose - tube to pump, 1-1/4" I.D. x 4" long	1
9	35A8049	Clamp - hose, worm type, 1-1/2"	2
10	35A8051	Breather - reservoir, on tube	1
11		50A4759 - Clip, hose to frame, 3/4" wide	1
12		50A2473 - Elbow, tank breather port, 1/4"-90°	1
13	35A8054	Nipple - toe, 1/4" pipe x 2" long	1
14	35A8037	Hose - vent to breather, 1/2" I.D. x 31" long	1
15		50A4306 - Clamp, hose, 3/4"	2
16		50A4425 - Elbow, valve inlet, 7/8"-14, 90°	1
17		50A4422 - Elbow, pump outlet, 7/8"-14, 45°	1
18	10A16285	"O" Ring - elbow and connector	2
19	35A7727	Hose - with tube assembly, pump to valve	1
20	35A9560	Hose - hydraulic tank to transmission, L-shaped 1-7/8" I.D. x 14-15/16" long	1
21	36A9797	Elbow - transmission case, 1-1/2" O.D. x 90°	1
22		50A4289 - Clamp, hose, 2-1/4"	2
23		50A4504 - Nipple, valve outlet, 3/4" x 2"	1
24	35A8119	Elbow - valve, 3/4" x 90°	1
25		GM444637 - Plug, pipe, hex. head, 3/4"-14	1
	35A7087	Nipple - toe, hose to elbow, 3/4" pipe x 3" long	1
27	35A6484	Hose - valve outlet to tank	1
28		50A4285 - Clamp, hose, 1-3/8"	2
29	35A8118	Hose - valve to lift cylinder	1
30		50A4422 - Elbow, valve to hose, 7/8"-14, 45°	1
31		50A4428 - Connector, lift cylinder, straight, 7/8"-14	1
32	10A16285	"O" Ring - elbow and connector	2
33		50A4423 - Elbow, flow divider and transmission valve, 9/16"-18 x 90°	2
34	10A16405	"O" Ring - elbow	2
35	35A7124	Hose - pump to transmission valve	1
36	35A4342	Hose - vent, 3/8" I.D. x 26-1/2"	1
37		50A4598 - Tee, vent line to transmission, 1/8"	1
38		GM144117 - Elbow, vent line, 1/8"-45° street	1
39		50A2394 - Nipple, tee and elbow, 1/8" I.D. x 1-1/2"	3
40	35A4340	Hose - vent, 3/8" I.D. x 21-1/2" long	1
41		50A4305 - Clamp, hose, 5/8"	4
42	35A5001	Restrictor - reducer, valve tilt port, lower, 3/4"-16 to 9/16"-18 x 1-1/16"	1
43	35A5002	Bushing - reducer, in valve tilt port, upper, 3/4"-16 to 9/16"-18 x 1-1/16"	1
44	10A12012	"O" Ring - restrictor and bushing	2
45		50A4889 - Tee, valve, 9/16"-18	2
46	10A16405	"O" Ring - tee and elbows	6
47		50A4423 - Elbow, tilt cylinder ports, 9/16"-18 J.I.C. x 90°	4
48		50A4736 - Fitting, tilt cylinder, L.H. rear port, 45°	1
49	35A9912	Tube - assembly, tilt cylinder, R.H. rear port to control valve	1
50	35A9914	Tube - assembly, tilt cylinder, R.H. front port to control valve	1
51	35A8198	Tube - tilt cylinder, L.H., tee to tube and hose, rear port	1
52	35A9913	Tube - assembly, tilt cylinder, L.H., rear port to tube	1
53	35A8199	Tube - tilt cylinder, L.H., tee to tube and hose, front port	1

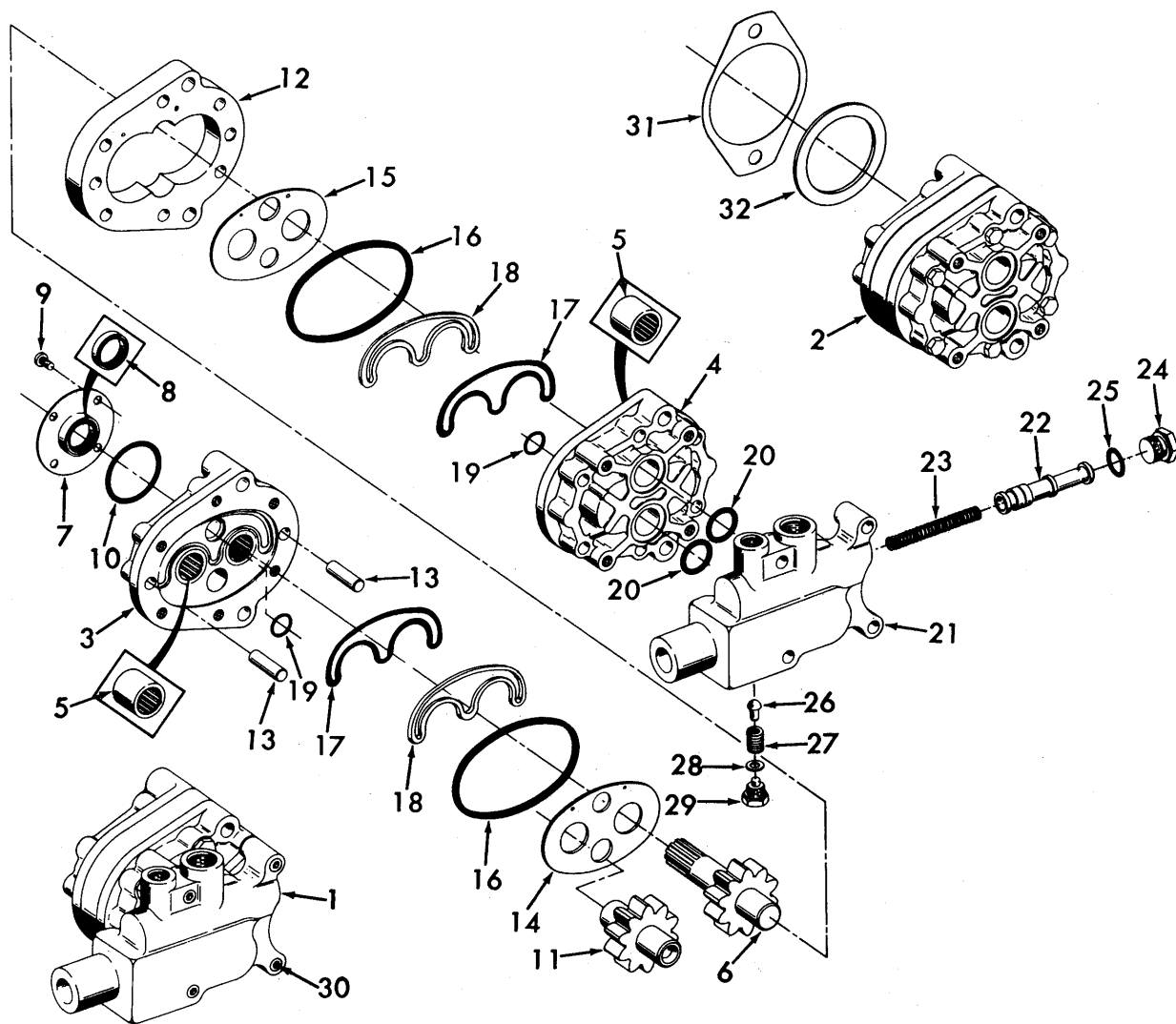
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		OIL LINES AND FILTER (Cont'd)	
54	35A9915	Tube - assembly, tilt cylinder, L.H., front port to tube.....	1
55		50A5131 Hose - tubes to tilt cylinders, 3/8" I.D. x 10".....	4
56		50A4657 Clip - hoses, 3/4" wide, R.H. side.....	1
		50A3645 Bolt - hex., 1/4"-20 x 5/8".....	2
		50A1898 Nut - hex., 1/4"-20.....	1
57		50A177 Clip - hoses, loop type, 3/4" wide, L.H. side.....	1
58	35A9919	Bracket - hose, mounts to transmission case, U-shaped.....	1



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		HYDRAULIC PUMP	
1	35A8597	Pump - hydraulic (Webster No. 2Y1DS4-RB), for replacement order 10A24659 pump and 10A24296 flow divider.....	1
		Consists of Ref. No. 2 through 30:	
2	10A24659	Pump - hydraulic..... Includes Ref. No. 3 through 20:	1
		50A1929 - Bolt, hex., 3/8"-16 x 4".....	2
3	35P2058	Body - assembly, front.....	1
4	10P3074	Cover - assembly, rear.....	1
		Each includes the following part:	
5	35P297	Bearing - needle, drive and idler shafts	4
6	35P2059	Shaft - drive, with drive gear.....	1
7	35P1287	Retainer - with oil seal.....	1
		Includes the following part:	
8	35P1295	*Seal - oil.....	1
9	10P1966	Screw - pan head, thd. cutting, No. 10-24 x 3/8".....	4
10	10P2027	*Seal - "O" ring, retainer, 1-3/4" I.D. x 1-15/16" O.D.....	1
11	35P2060	Gear - idler.....	1
12	35P2061	Plate - gear, .8011 thick	1
13	35P2062	Pin - dowel, gear plate, 3/8" x 1-7/16"	2
		50A3672 - Bolt, hex., 3/8"-16 x 2-3/4"	6
14	10P2015	Plate - wear, pump body.....	1
15	10P2014	Plate - wear, pump cover.....	1
16	10P3077	*Seal - wear plate, outer, rubber.....	2
17	35P284	*Seal - wear plate, inner, rubber	2
18	10P3067	*Ring - back-up, wear plate seal	2
19	10P2021	*Seal - "O" ring, 5/8" I.D., 3/4" O.D.	2
20	35P2051	*Seal - "O" ring, manifold to pump.....	2
21	10A24296	Flow Divider - assembly	1
		Includes Ref. No. 22 through 29:	
22	35P2063	Piston	1
23	10P1592	Spring - piston, 27 coils	1
24	10P1595	Plug - piston and spring, 3/4"-16 N.F.	1
25	35P1294	Seal - "O" ring, plug, 7/8" O.D.	1
26	35P2064	Valve	1
27	35P2065	Spring - valve.....	1
28	35P293	Shim - valve spring	A.R.
29	35P292	Plug - valve, 1/2"-20 N.F.	1
30	35P2050	Bolt - hex. socket, 5/16"-18 x 1-3/4".....	4
	35R99	*Kit - seals	1
		NOTE: Those parts identified with an asterisk () are included in seal kit.	
31	35A4439	Shim - pump to cover, green, .003	A.R.
31	35A4438	Shim - pump to cover, blue, .005	A.R.
31	35A4440	Shim - pump to cover, yellow, .020	A.R.
31	35A8224	Shim - pump, metal, .003.....	A.R.
31	35A8223	Shim - pump, metal, .005.....	A.R.
31	35A8225	Shim - pump, metal, .010.....	A.R.
31	35A8222	Shim - pump, metal, .020.....	A.R.
32	35A4145	Spacer - pump to cover, 3/32" x 2-17/32" I.D., 3-7/32" O.D.	1

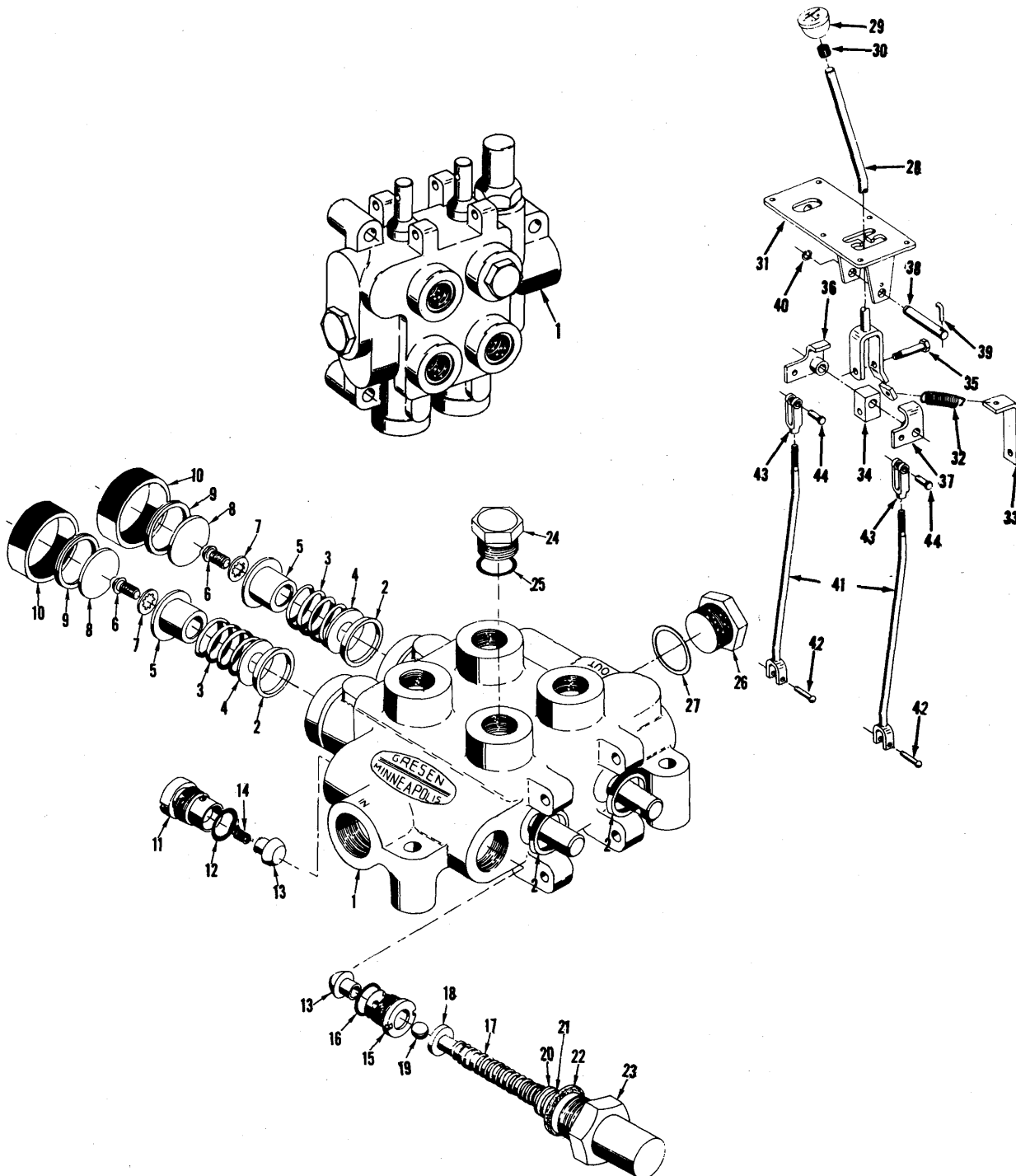


MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
MAST CONTROL LEVERS AND VALVE			
1	35A5903	Valve - mast control, assembly, MSB 20-25	1
1	35A5904	Valve - mast control, assembly, MSB 30-35	1
		Each includes the following 26 parts:	
		50A1925 - Bolt, hex., 3/8"-16 x 2-1/2"	3
		50A1900 - Nut, hex., 3/8"-16	3
2	15P660	Seal - spool, vee block type (early valves)	4
		50A1666 - Seal spool, quad ring style (late valves)	4
3	15P656	Spring - spool centering	2
4	10P1652	Washer - stop, centering spring	2
5	15P654	Collar - stop, centering spring	2
6	15P652	Bolt - stop collar	2
7	10P1650	Washer - lock, stop collar bolt	2
8	15P655	Disc - stop collar	2
9	15P657	Ring - snap, stop disc	2
10	15P663	Bonnet - rubber, spool opening	2
11	35P215	Plug - ball check	1
12	10A6329	"O" Ring - ball check plug	1
13	35P218	Plunger - check and relief valve	2
14	20P4777	Spring - plunger, check valve	1
15	35P216	Seat - relief valve	1
16	10A12012	"O" Ring - relief valve seat	1
17	35P227	Spring - relief	1
18	35P222	Guide - relief spring	1
19	35P213	Ball - relief guide	1
20	10A16489	Washer - spacer, relief spring	1
21	10A16490	Shim - relief spring	1
22	10A16487	Gasket - relief spring cap	1
23	35P220	Cap - relief spring	1
24	35P1248	Plug - port, 7/8"-14 UNF	1
25	35P225	"O" Ring - port plug	1
26	35P1034	Plug - conversion	1
27	15P747	Gasket - conversion plug	1
28	36A9439	Lever - control, lift and tilt	1
29	35A8611	Knob - control lever, solid	1
30		50A4887 - Insert, knob	1
31	36A8888	Bracket - lever mounting	1
		50A3648 - Bolt, hex., 1/4"-20 x 1"	6
		50A1898 - Nut, hex., 1/4"-20	6
32	10A25890	Spring - lever, 23/32" O.D., 3" long	1
33	10A24261	Bracket - spring, L-shaped, 4" long	1
		50A3667 - Bolt, hex., 3/8"-16 x 1-1/4"	1
		50A1900 - Nut, hex., 3/8"-16	1
34	35A6098	Pivot - lever	1
35	35A6694	Bolt - pivot bar	1
		50A1043 - Nut, hex., (Esna), 5/16"-24	1
36	36A6150	Bell Crank - control lever, right hand	1
37	36A6149	Bell Crank - control lever, left hand	1
38	35A6096	Shaft - bell crank	1
39	35A6097	Lock Pin - shaft	1
40		50A1827 - Snap ring, shaft (Tru-Arc 5133-50)	1
41	36A6183	Link - connecting, valve to bell crank	2
		GM124829 - Nut, hex. jam, 3/8"-16	2
42	15A12318	Rivet - rd. hd., 1/4" x 1-1/2"	2
		GM120393 - Washer, plain, 11/32" I.D., 11/16" O.D.	2

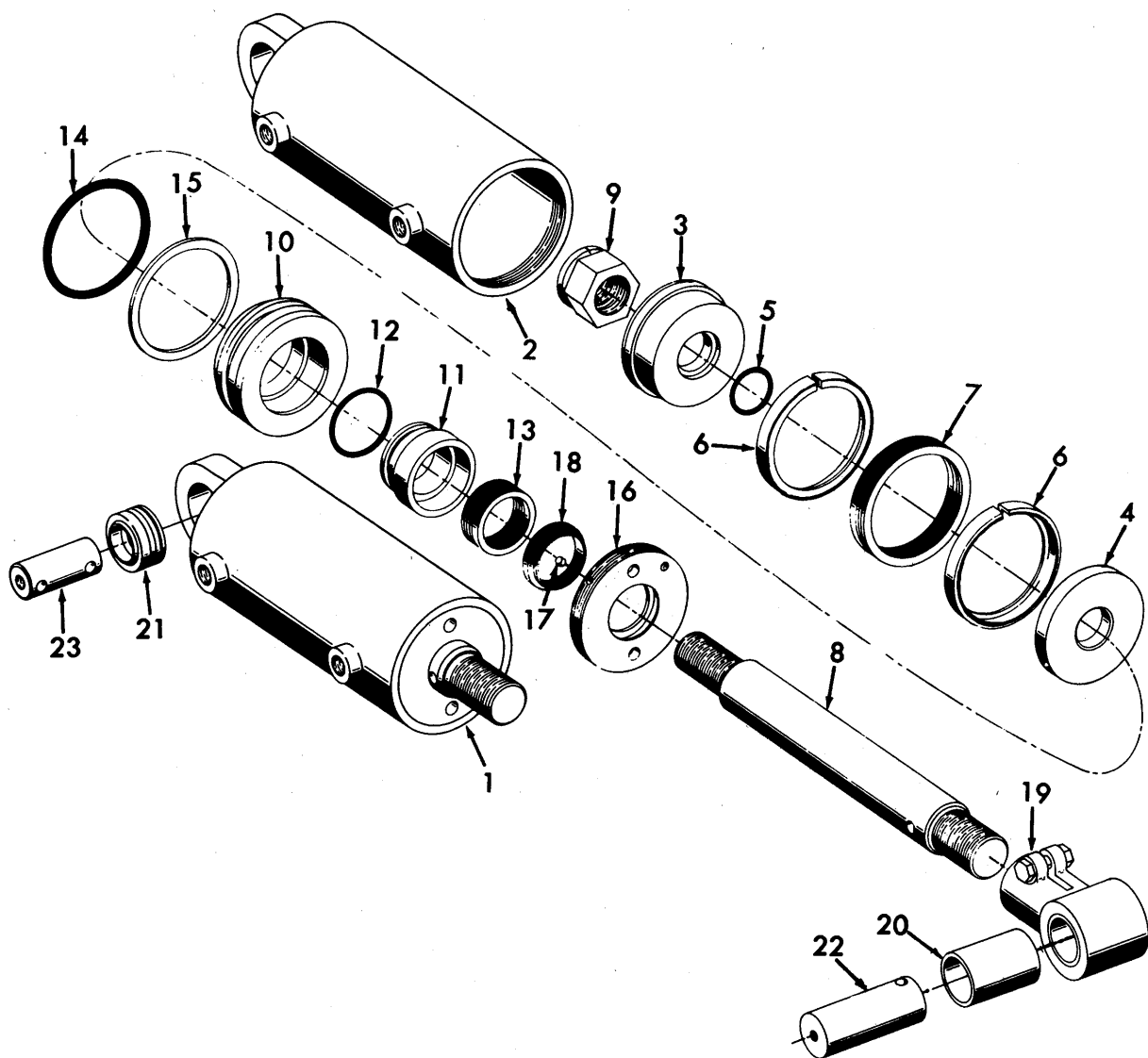
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
MAST CONTROL LEVERS AND VALVE (Cont'd)			
43		50A3829 - Pin, cotter, 3/32" x 3/4"	2
		50A4282 - Clevis, short, 5/16"-24	2
		GM124920 - Nut, hex. jam, 5/16"-24	2
44		50A3854 - Pin, clevis, 5/16" x 31/32".....	2
		50A3829 - Pin, cotter, 3/32" x 3/4"	2



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		TILT CYLINDER	
1	36A7234	Cylinder - assembly, 6° F, 11° B Includes the following 20 parts:	2
2	35P1249	Shell - assembly	2
3	35P1250	Piston - half.....	2
4	35P1251	Piston - half.....	2
5	35P1072	*Seal - "O" ring, piston to rod.....	2
6	35P1252	*Rider - nylon, piston.....	4
7	35P1253	*Packing - assembly.....	2
8	35P1254	Rod - piston, 13-5/8" long	2
9	35P1255	Nut - piston rod.....	2
10	35P1256	Retainer - piston rod seals	2
11	35P1257	Bushing - piston rod retainer	2
12	10A7956	*Seal - "O" ring, retainer to bushing.....	2
13	35P1258	*Packing - assembly, retainer bushing.....	2
14	10A4729	*Seal - "O" ring, retainer to outer shell.....	2
15	35P821	*Ring - back-up, outer retainer seal	2
16	35P1259	Washer - threaded, with nylon pellet.....	2
17	35P135	Pellet - nylon.....	2
18	35P1260	*Ring - wiper, piston rod	2
	35R113	*Repair Kit - cylinder..... *NOTE: Repair Kit consists of the above parts identified by a single asterisk (*).	1
19	35B7235	End - piston rod, with bushing.....	2
20	15A13163	Bushing - piston rod end..... GM181643 - Bolt, hex. head, 3/8"-24 x 1-1/2"..... GM120369 - Nut, hex., 3/8"-24	2 2 2
21	35A7236	Bearing - cylinder, head end.....	1
22	35A5301	Pin - cylinder, rod end, front, 1-1/4" x 3-1/4".....	2
23	35A8588	Pin - cylinder, head end, rear, 1" x 2-5/16"..... 50A2852 - Pin, roll, 1/4" x 3"..... 50A4692 - Pin, roll, 1/4" x 1-3/8".....	2 2 4

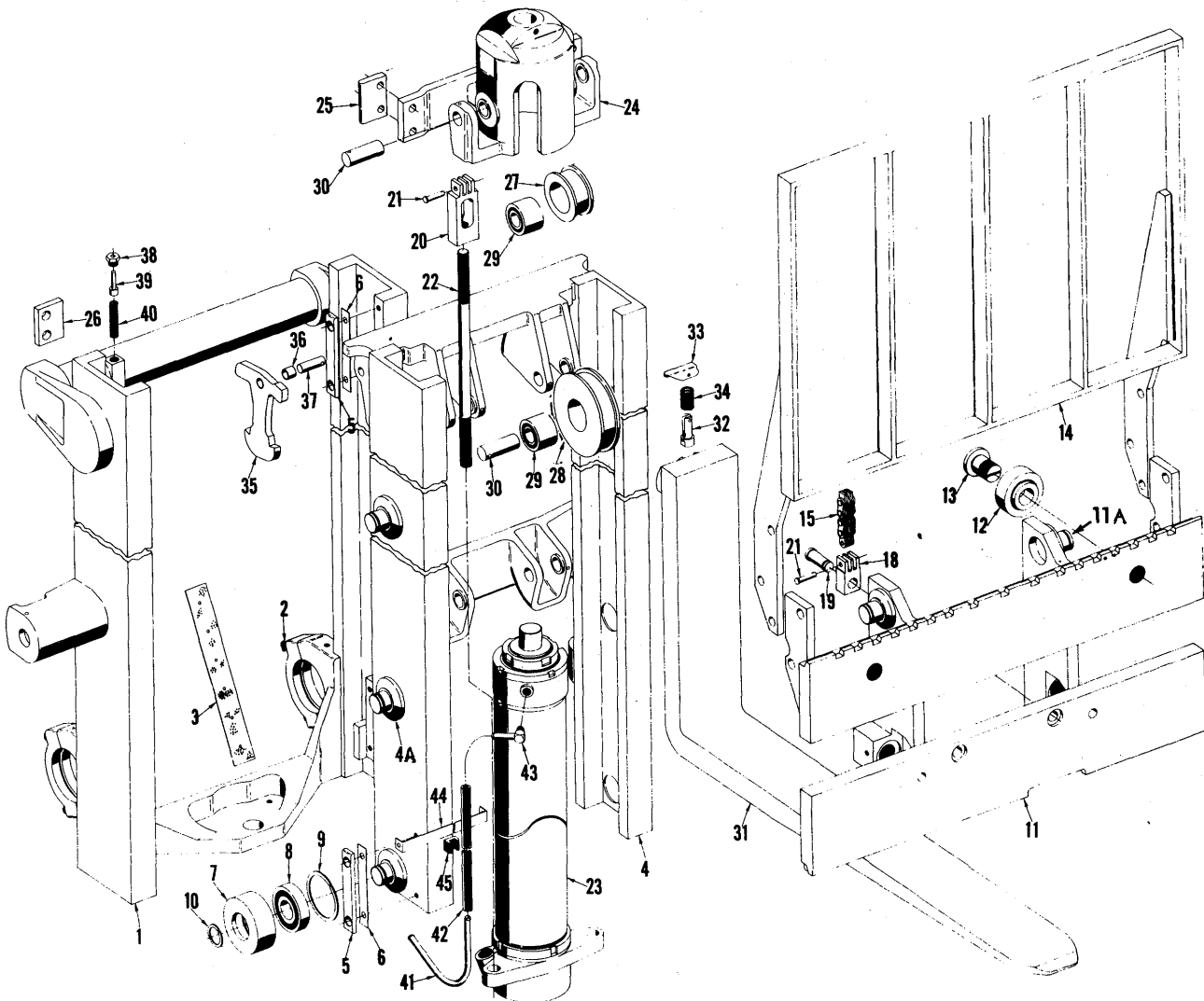


MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		DUPLEX MAST	
1	-----	Rail - outer, assembly, see chart on page 74	1
		Includes the following part:	
		GM191758 - Fitting, grease, 1/8" straight	4
2	35A6790	Screw - bearing cap, 1/2"-13 x 2-1/2"	4
3	35A4046	Bushing - bearing cap	2
4	-----	Rail - inner assembly, see chart on page 74	1
		Includes the following part:	
4A	35A3686	Pin - bearing, inner rail	6
5	35A3692	Shoe - mast	6
		50A1676 - Screw, hex. socket, 3/8"-16 x 5/8"	12
6	35A3693	Shim - mast shoe	A.R.
7	35A3691	Roller - mast	10
8	35A3687	Bearing - mast roller	10
9		50A1677 - Ring, snap, mast and carriage bearing, 2-13/16" I.D.	10
10	30A1681	Ring - snap, mast bearing	10
11	-----	Carriage - assembly, Order from White Mobilift Sales Dept.	1
		Includes the following part:	
11A	35A3686	Pin - bearing, carriage	4
12	35A622	Bearing - thrust, carriage	4
13	35A5459	Pin - thrust bearing	4
		50A4135 - Set Screw, socket head, cup point, 3/8"-16 x 1/2"	2
14	-----	Rack - load safety, Order from White Mobilift Sales Dept.	1
		50A232 - Bolt, hex., 5/8"-11 x 1-1/2"	6
		GM124847 - Nut, hex., 5/8"-11	6
	35A6791	Bracket - mounting, load rack to carriage	2
15	-----	Chain - 3 x 4 lacing, No. BL534, see chart on page 74	1
18	35A8510	Anchor - chain, 2-1/2" long	2
21	35A4082	Pin - chain anchor, 15/64" x 1-5/16"	4
20	35A8509	Anchor - chain, 4-1/4" long	2
19	35A3700	Pin - chain anchor, 5/8" x 1-3/4" long	2
		50A1976 - Ring, retainer, anchor pin (Tru-arc 5160-62)	2
		50A1705 - Ring, retainer, chain pin (Tru-arc 5133-18)	8
22	-----	Rod - chain anchor, see chart on page 74	2
		GM124944 - Nut, hex., jam, 5/8"-18	8
	35A4333	Nut - spherical, 5/8"-18	2
23	-----	Cylinder - lift, see chart on page 74	1
		GM180126 - Bolt, hex., 3/8"-16 x 1-1/2"	1
		GM124829 - Nut, hex. jam, 3/8"-16	1
24	36A3712	Head - piston	1
		GM102592 - Set Screw, cup point, 5/16"-18 x 1/2"	1
25	35A3694	Guide - piston head	2
		GM180175 - Bolt, hex., 1/2"-13 x 1-1/4"	4
26	35A4207	Block - stop, outer rail	2
		GM180174 - Bolt, hex., 1/2"-13 x 1-1/8"	4
27	35A6987	Sheave - chain, 3" dia.	4
28	35A6988	Sheave - chain, 4-5/8" dia.	2
29	35A6986	Bearing - sheave	6
30	35A4079	Pin - sheave bearing, 2-3/8" long	6
		50A2867 - Pin, roll, 5/32" x 5/8"	6
31	-----	Fork - lifting, order from White Mobilift Sales Department	2
32	35A668	Pin - fork stop, 2-1/16" long	2
33	35A669	Lever - stop pin	2
34	35A667	Spring - stop pin	2
		50A2832 - Pin, roll, 3/16" x 1"	2
	35A4097	Washer - fork lock, 1/16" x 21/32" I.D., 7/8" O.D.	2
35	36A3707	Latch - fork, includes bushing	1
36	10A13028	Bushing - latch, 5/8" I.D., 5/8" long	1

MSB SERIES FORK LIFT TRUCKS

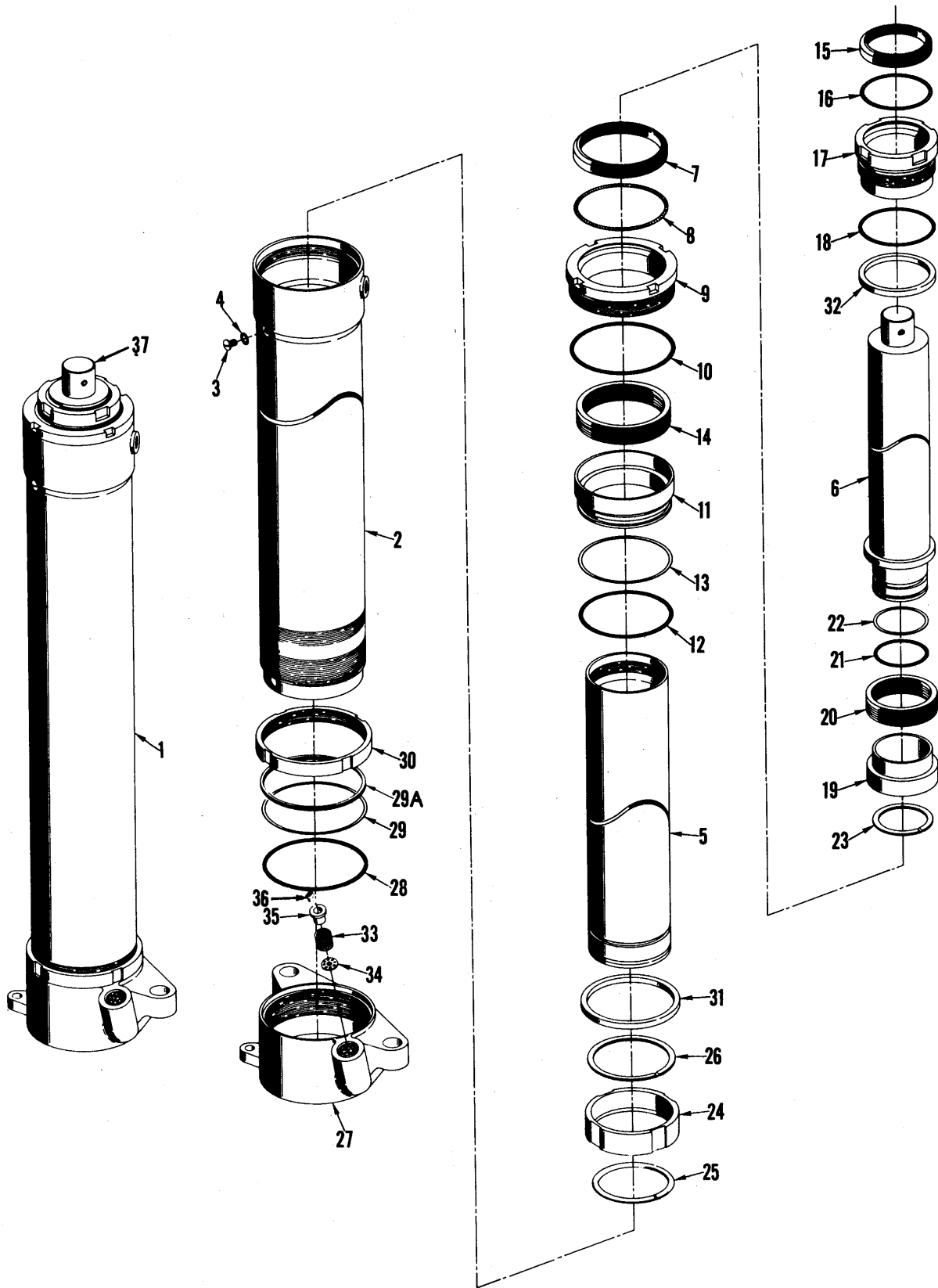
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
DUPLEX MAST (Cont'd)			
37	35A4084	Pin - latch, 5/8" x 1-7/8".....	1
		50A2834 - Pin, roll, 3/16" x 1-1/2".....	1
38	35A3698	Cap - latch dog, outer rail and carriage block.....	2
39	35A3697	Plunger - latch dog, outer rail and carriage block.....	2
40	35A3696	Spring - latch dog, outer rail and carriage block.....	2
41	35A7349	Tube - vent, curved, 1/4" and 3/8" O.D.	1
42	-----	Hose - vent tube, see chart on page 74.....	1
		50A3573 - Clamp, hose, 7/16".....	2
43	35A7307	Elbow - vent hose, 90°, 1/4"-18" N.P.T.	1
44	35A7070	Strap - vent hose.....	2
		GM133073 - Screw, rd. hd., 1/4"-20 x 2-1/2".....	2
45	35A1464	Spacer - vent hose.....	2



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		DUPLEX LIFT CYLINDER	
1	35A7887	Cylinder - lift, complete, 34-7/8" long	1
1	35A7895	Cylinder - lift, complete, 39-7/8" long	1
1	35A7900	Cylinder - lift, complete, 43-3/8" long	1
		Each includes the following 41 parts:	
2	35P1455	Shell - for 34-7/8" cylinder	1
2	35P1456	Shell - for 39-7/8" cylinder	1
2	35P1457	Shell - for 43-3/8" cylinder	1
3	35P833	Screw - button head, cylinder shell	1
4	35P832	*Seal - button head screw	1
5	35P1199	Tube - intermediate, for 34-7/8" cylinder	1
5	35P1200	Tube - intermediate, for 39-7/8" cylinder	1
5	35P1201	Tube - intermediate, for 43-3/8" cylinder	1
6	35P1202	Plunger - for 34-7/8" cylinder	1
6	35P1203	Plunger - for 39-7/8" cylinder	1
6	35P1204	Plunger - for 43-3/8" cylinder	1
7	35P183	*Ring - wiper, intermediate tube	1
8	35P182	*Spring - garter, wiper ring	1
9	35P1207	Retainer - wiper ring	1
10	10A7846	*"O" Ring - retainer, 3-3/4" I.D., 4" O.D.	1
11	35P1208	Bushing - intermediate tube	1
12	35P1209	*"O" Ring - intermediate tube bushing, 3-3/8" I.D., 3-5/8" O.D.	1
13	35P1210	*Ring - back-up, "O" ring	1
14	35P1211	*Packing - tube bushing	1
15	35P1212	*Ring - wiper, plunger	1
16	35P1206	*Spring - garter, wiper ring	1
17	35P1213	Retainer - plunger wiper ring	1
18	35P174	*"O" Ring - wiper retainer, 2-1/2" I.D., 2-3/4" O.D.	1
19	35P1214	Piston	1
20	35P1215	*Packing - piston	1
21	10A7956	*"O" Ring - piston, inner, 1-1/2" I.D., 1-3/4" O.D.	1
22	35P1216	*Ring - back-up, "O" ring	1
23	35P1217	Ring - snap, piston retainer	1
24	35P1218	Bearing - intermediate tube	1
25	35P1219	Ring - bearing retainer	1
26	35P1220	Ring - snap, bearing	1
27	35P1458	Head - cylinder	1
28	35P1222	*"O" Ring - cylinder head, 3-7/8" I.D., 4-1/8" O.D.	1
29	35P1459	*Ring - back-up, head "O" ring	1
29A	35P1460	*Ring - cylinder head, nylon, upper	1
	35R70	*Repair Kit - lift cylinder	-
		*NOTE: Repair Kit consists of the above items identified by an asterisk.	
30	35P1461	Nut - lock, cylinder head	1
31	35A4209	Spacer - intermediate tube, 1/4" x 3-3/8" O.D., for 34-7/8" and 39-7/8" cylinders	1
31	35A3453	Spacer - intermediate tube, 1" x 3-3/8" O.D. for 34-7/8" cylinder	1
32	35A4100	Spacer - plunger, 1/4" x 2-3/8" O.D., for 34-7/8" and 39-7/8" cylinder	1
32	35A4098	Spacer - plunger, 1" x 2-3/8" O.D., for 34-7/8" cylinder	1
33	35A7913	Spring - oil restrictor	1
34	35A7795	Washer - perforated, oil restrictor	1
35	35A7792	Spacer - oil restrictor	1
36	35A7793	Hat - sleeve	1
37	35P1226	Rod - end, cylinder top, 3-1/8" long	1
	35P1227	Lock Washer - rod	1

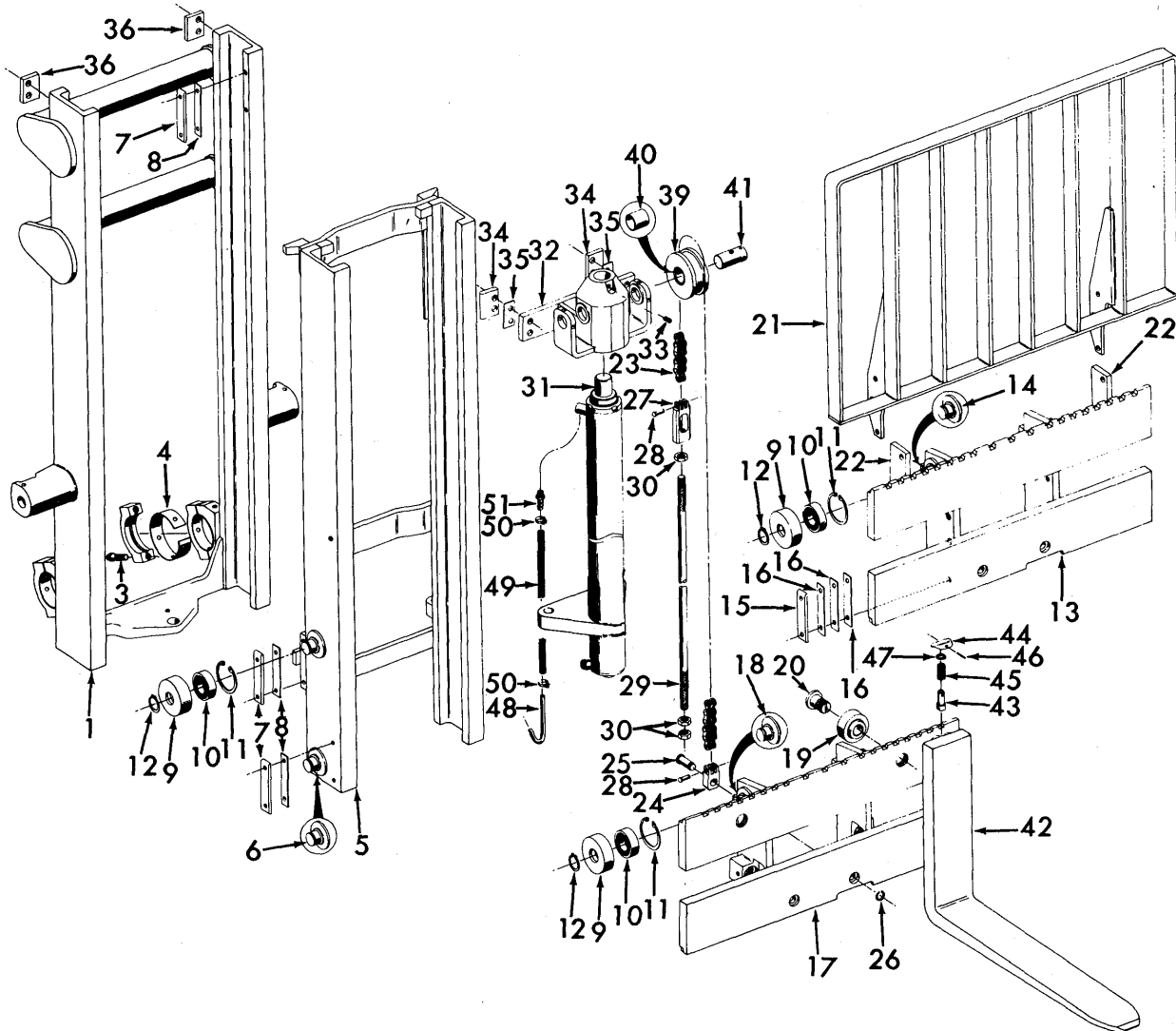
MSB SERIES FORK LIFT TRUCKS



Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		SIMPLEX MAST For MSB 20-25 Lift Trucks Group I	
1	-----	Rail - outer assembly, see chart on page 75.....	1
		Includes the following part:	
		50A4629 Fitting - grease, 1/8" straight.....	2
3	35A6790	Screw - bearing cap, 12 pt., with nylon pellet, 1/2"-13 x 2-1/2".....	4
4	35A4046	Bushing - bearing cap.....	2
5	-----	Rail - inner assembly, see chart on page 75.....	1
		Includes the following part:	
6	35A3686	Pin - rail.....	6
7	35A3692	Shoe - mast.....	6
		50A1676 Screw - hex. socket, 3/8"-16 x 5/8".....	12
8	35A9812	Shim - mast shoe, .010.....	A.R.
8	35A3693	Shim - mast shoe, .030.....	A.R.
9	35A3691	Roller - mast and carriage.....	10
10	35A3687	Bearing - mast and carriage roller.....	10
11		50A1677 Ring - snap, mast and carriage bearings, 2-13/16" I.D.	10
12		50A578 Ring - snap, mast and carriage bearings, 1-3/8" I.D.	10
13	-----	Carriage - with wear plates, order from White Mobilift Sales Dept.	1
		Includes the following 4 parts:	
14	35A3686	Pin - carriage.....	4
15	35A3692	Shoe - carriage.....	4
		50A1676 Screw - hex. socket, 3/8"-16 x 5/8".....	8
16	35A3693	Shim - shoe, .031 thick.....	A.R.
16	35A9812	Shim - shoe, .010 thick.....	A.R.
17	-----	Carriage - assembly, with side thrust rollers, Order from White Mobilift Sales Dept.	1
		Includes the following 3 parts:	
18	35A3686	Pin - carriage.....	4
19	35A622	Bearing - thrust, carriage.....	4
20	35A5459	Pin - thrust bearing.....	4
		50A4135 Set Screw - cup point, socket head, 3/8"-16 x 1/2".....	2
21	-----	Rack - load safety, Order from White Mobilift Sales Dept.	1
		50A2749 Bolt - flat head, 5/8"-11 x 1-1/2".....	6
22	35A6791	Bracket - mounting, load rack to carriage.....	2
23	-----	Chain - 3 x 4 lacing, see chart on page 75 for length of chain.....	2
24	35A8510	Anchor - chain, on carriage, 2-1/2" long.....	2
25	35A3700	Pin - chain anchor, 5/8" x 1-3/4".....	2
26		50A1976 Ring - retainer, anchor pin.....	2
27	35A8509	Anchor - chain, 4-1/4" long.....	2
28	35A4082	Pin - chain anchor, 15/64" O.D. x 1-9/16" long.....	4
		50A1705 Ring - retainer, chain pin.....	8
29	-----	Rod - chain anchor, see chart on page 75.....	2
30		50A4873 Nut - hex. jam, 5/8"-18.....	6
31	-----	Cylinder - lift, see chart on page 75.....	1
		50A3670 Bolt - hex., 3/8"-16 x 2".....	1
		50A3742 Nut - hex. jam, 3/8"-16.....	1
32	36A10500	Head - piston.....	1
33		50A4135 Set Screw - cup point, 3/8"-16 x 1/2".....	1
34	35A3694	Guide - piston head.....	2
		50A3680 Bolt - hex., 1/2"-13 x 1-1/4".....	4
36	35A10297	Block - stop, outer rail, 5/8" x 2-1/2" x 3".....	2
		50A3680 Bolt - hex., 1/2"-13 x 1-1/4".....	4
39	35B9570	Sheave - chain, 4-3/8" dia.	2
		Includes the following part:	
40	10A7745	Bushing - sheave.....	2
41	35B9571	Pin - sheave.....	2
		50A2867 Pin - roll, 5/32" x 5/8".....	2
		50A5531 Fitting - grease, 1/4"-28 straight.....	2

MSB SERIES FORK LIFT TRUCKS

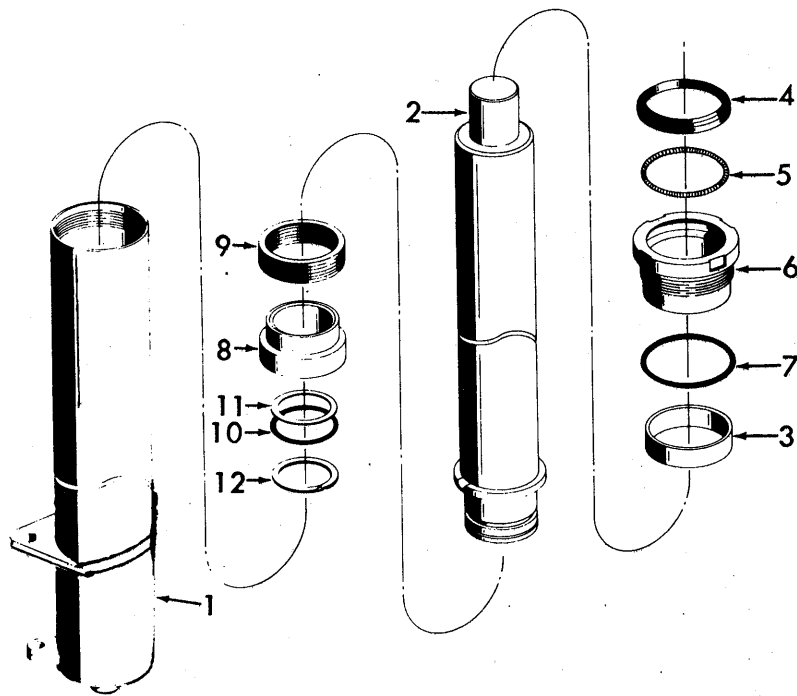
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		SIMPLEX MAST (Cont'd) For MSB 20-25 Lift Trucks Group I	
42	-----	Fork - lifting, Order from White Mobilift Sales Dept.	2
		Includes the following 4 parts:	
43	35A 668	Pin - fork stop, 2-1/16" long	2
44	35A 669	Lever - stop pin	2
45	35A 667	Spring - stop pin	2
46		50A2832 Pin - roll, 3/16" x 1"	2
47	35A 4097	Washer - fork lock, 1/16" x 21/32" I.D., 7/8" O.D.	2
48	35A 9202	Tube - vent, 3/8" O.D.	1
49	-----	Hose - vent tube, see chart on page 75	1
50		50A4305 Clamp - hose, 5/8"	2
51		50A1156 Fitting - hose, 1/4"-18	1
	36A 9959	Clamp - vent hose	3



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		Simplex Lift Cylinder Group II 3" Diameter, for MSB 20-25 Lift Truck	
	-----	*Cylinder - lift, complete.....	1
		Includes the following 9 parts:	
1	-----	*Shell - cylinder, outer, 3" O.D.	1
2	-----	*Plunger - cylinder, 2" O.D.	1
3	-----	*Spacer - cylinder.....	A.R.
		*NOTE: Order above parts by M F H and O A H L	
4	35P1212	**Ring - wiper, plunger	1
5	35P1206	**Spring - garter, wiper ring.....	1
6	35P1213	Retainer - plunger wiper ring.....	1
7	35P174	**"O" Ring - retainer, 2-1/2" I.D., 2-3/4" O.D.	1
8	35P1214	Piston.....	1
9	35P1215	**Packing - piston.....	1
10	10A7956	**"O" Ring - piston, inner, 1-1/2" I.D., 1-3/4" O.D.	1
11	35P2646	**Ring - back-up, "O" ring.....	1
12	35P1217	**Ring - snap, piston retainer	1
	35R118	**Kit - cylinder.....	1
		**NOTE: Kit consists of the above items identified by (**) asterisks.	

MSB SERIES FORK LIFT TRUCKS



MSB SERIES FORK LIFT TRUCKS

VARIABLE PARTS CHART FOR DUPLEX MAST

Outer Rail	Inner Rail	Cylinder Assy.	Chain Assy. - BL534	Chain Anchor Rod	Vent Hose	Mast	
						M.F.H.	O.A.H.L.
36A4210 - 60-1/2"	36A4240 - 60-1/2"	35A7882 - 32-3/8"	35A8519 - 201 lks.	35A4321 - 12"	35A7328 - 19"	91"	63-1/2"
36A4211 - 62"	36A4241 - 62"	35A7883 - 32-3/8"	35A8519 - 201 lks.	35A4322 - 15"	35A7328 - 19"	94"	65"
36A4212 - 63-1/2"	36A4242 - 63-1/2"	35A7884 - 32-3/8"	35A8519 - 201 lks.	35A4324 - 18"	35A7328 - 19"	97"	66-1/2"
36A4213 - 65"	36A4243 - 65"	35A7885 - 32-3/8"	35A8519 - 201 lks.	35A4326 - 21"	35A7328 - 19"	100"	68"
36A4214 - 66-1/2"	36A4244 - 66-1/2"	35A7886 - 34-7/8"	35A8519 - 201 lks.	35A4328 - 24"	35A7329 - 21-1/2"	103"	69-1/2"
36A4215 - 68"	36A4245 - 68"	35A7887 - 34-7/8"	35A8520 - 225 lks.	35A4321 - 12"	35A7329 - 21-1/2"	106"	71"
36A4216 - 69-1/2"	36A4246 - 69-1/2"	35A7888 - 34-7/8"	35A8520 - 225 lks.	35A4322 - 15"	35A7329 - 21-1/2"	109"	72-1/2"
36A4217 - 71"	36A4247 - 71"	35A7889 - 37-3/8"	35A8520 - 225 lks.	35A4324 - 18"	35A7330 - 24"	112"	74"
36A4218 - 72-1/2"	36A4248 - 72-1/2"	35A7890 - 37-3/8"	35A8520 - 225 lks.	35A4326 - 21"	35A7330 - 24"	115"	75-1/2"
36A4219 - 74"	36A4249 - 74"	35A7891 - 37-3/8"	35A8520 - 225 lks.	35A4328 - 24"	35A7330 - 24"	118"	77"
36A4220 - 75-1/2"	36A4250 - 75-1/2"	35A7892 - 37-3/8"	35A8521 - 249 lks.	35A4321 - 12"	35A7330 - 24"	121"	78-1/2"
36A4221 - 77"	36A4251 - 77"	35A7893 - 39-7/8"	35A8521 - 249 lks.	35A4322 - 15"	35A7331 - 26-1/2"	124"	80"
36A4222 - 78-1/2"	36A4252 - 78-1/2"	35A7894 - 39-7/8"	35A8521 - 249 lks.	35A4324 - 18"	35A7331 - 26-1/2"	127"	81-1/2"
36A4223 - 80"	36A4253 - 80"	35A7895 - 39-7/8"	35A8521 - 249 lks.	35A4326 - 21"	35A7331 - 26-1/2"	130"	83"
36A4224 - 81-1/2"	36A4254 - 81-1/2"	35A7896 - 43-3/8"	35A8521 - 249 lks.	35A4329 - 24"	35A7332 - 30"	133"	84-1/2"
36A4225 - 83"	36A4255 - 83"	35A7897 - 43-3/8"	35A8522 - 273 lks.	35A4321 - 12"	35A7332 - 30"	136"	86"
36A4226 - 84-1/2"	36A4256 - 84-1/2"	35A7898 - 43-3/8"	35A8522 - 273 lks.	35A4322 - 15"	35A7332 - 30"	139"	87-1/2"
36A4227 - 86"	36A4257 - 86"	35A7899 - 43-3/8"	35A8522 - 273 lks.	35A4324 - 18"	35A7332 - 30"	142"	89"
36A4228 - 87-1/2"	36A4258 - 87-1/2"	35A7900 - 43-3/8"	35A8522 - 273 lks.	35A4326 - 21"	35A7332 - 30"	145"	90-1/2"
36A4229 - 89-1/2"	36A4259 - 89-1/2"	35A7901 - 46-3/8"	35A8522 - 273 lks.	35A4329 - 25"	35A7333 - 33"	148"	92-1/2"
36A4230 - 91"	36A4260 - 91"	35A7902 - 46-3/8"	35A8522 - 273 lks.	35A4330 - 28"	35A7333 - 33"	151"	94"
36A4231 - 92-1/2"	36A4261 - 92-1/2"	35A7903 - 46-3/8"	35A8522 - 273 lks.	35A4331 - 31"	35A7333 - 33"	154"	95-1/2"
36A4232 - 94"	36A4262 - 94"	35A7904 - 46-3/8"	35A8522 - 273 lks.	35A4332 - 35"	35A7333 - 33"	157"	97"
36A4233 - 95-1/2"	36A4263 - 95-1/2"	35A7905 - 49-3/8"	35A8523 - 313 lks.	35A4321 - 12"	35A7334 - 36"	160"	98-1/2"
36A4234 - 97-1/2"	36A4264 - 97-1/2"	35A7906 - 49-3/8"	35A8523 - 313 lks.	35A4323 - 16"	35A7334 - 36"	163"	100-1/2"
36A4235 - 99"	36A4265 - 99"	35A7907 - 49-3/8"	35A8523 - 313 lks.	35A4325 - 19"	35A7334 - 36"	166"	102"
36A4236 - 100-1/2"	36A4266 - 100-1/2"	35A7908 - 49-3/8"	35A8524 - 329 lks.	35A4321 - 12"	35A7334 - 36"	169"	103-1/2"
36A4237 - 102"	36A4267 - 102"	35A7909 - 52-3/8"	35A8524 - 329 lks.	35A4322 - 15"	35A7335 - 37-1/2"	172"	105"
36A4238 - 103-1/2"	36A4268 - 103-1/2"	35A7910 - 52-3/8"	35A8524 - 329 lks.	35A4324 - 18"	35A7335 - 37-1/2"	175"	106-1/2"
36A4239 - 105-1/2"	36A4269 - 105-1/2"	35A7911 - 52-3/8"	35A8524 - 329 lks.	35A4327 - 22"	35A7335 - 37-1/2"	178"	108-1/2"

NOTE: For breakdown of lift cylinder see page 68.

NOTE: Order replacement parts on Forks, Extension Forks, Carriages and Safety Racks from White Mobilift Sales Department.

VARIABLE PARTS CHART FOR SIMPLEX MAST

Outer Rail	Inner Rail	Cylinder Assy.	Chain Assy. - BL-534			Chain Anchor Rod	Vent Hose	Mast	
			Pitches	Length				M.F.H.	O.A.H.L.
36A9573	36A9620	35A9767	35A9712	75	46-7/8"	35A9647 - 31-1/2"	35A4342 - 26-1/2"	67"	51-1/2"
36A9574	36A9621	35A9768	35A9713	81	50-5/8"	35A9647 - 31-1/2"	35A4342 - 26-1/2"	70"	53"
36A9575	36A9622	35A9769	35A9714	85	53-1/8"	35A9647 - 31-1/2"	35A4343 - 30"	73"	54-1/2"
36A9576	36A9623	35A9770	35A9715	91	56-7/8"	35A9647 - 31-1/2"	35A4343 - 30"	76"	56"
36A9577	36A9624	35A9771	35A9716	95	59-3/8"	35A9647 - 31-1/2"	35A4344 - 33"	79"	57-1/2"
36A9578	36A9625	35A9772	35A9717	99	61-7/8"	35A9647 - 31-1/2"	35A4344 - 33"	82"	59"
36A9579	36A9626	35A9773	35A9718	105	65-5/8"	35A9647 - 31-1/2"	35A2776 - 36"	85"	60-1/2"
36A9580	36A9627	35A9774	35A9719	109	68-1/8"	35A9647 - 31-1/2"	35A2776 - 36"	88"	62"
36A9581	36A9628	35A9775	35A9720	115	71-7/8"	35A9647 - 31-1/2"	35A2777 - 37-1/2"	91"	63-1/2"
36A9582	36A9629	35A9776	35A9721	119	74-3/8"	35A9647 - 31-1/2"	35A2778 - 39"	94"	65"
36A9583	36A9630	35A9777	35A9717	99	61-7/8"	35A9648 - 46-1/2"	35A2779 - 40-1/2"	97"	66-1/2"
36A9584	36A9631	35A9778	35A9718	105	65-5/8"	35A9648 - 46-1/2"	35A2780 - 42"	100"	68"
36A9585	36A9632	35A9779	35A9719	109	68-1/8"	35A9648 - 46-1/2"	35A2781 - 43-1/2"	103"	69-1/2"
36A9586	36A9633	35A9780	35A9720	115	71-7/8"	35A9648 - 46-1/2"	35A2782 - 45"	106"	71"
36A9587	36A9634	35A9781	35A9721	119	74-3/8"	35A9648 - 46-1/2"	35A2783 - 46-1/2"	109"	72-1/2"
36A9588	36A9635	35A9782	35A9722	123	76-7/8"	35A9648 - 46-1/2"	35A2784 - 48"	112"	74"
36A9589	36A9636	35A9783	35A9723	129	80-5/8"	35A9648 - 46-1/2"	35A2785 - 49-1/2"	115"	75-1/2"
36A9590	36A9637	35A9784	35A9724	133	83-1/8"	35A9648 - 46-1/2"	35A2786 - 51"	118"	77"
36A9591	36A9638	35A9785	35A9725	139	86-7/8"	35A9648 - 46-1/2"	35A2787 - 52-1/2"	121"	78-1/2"
36A9592	36A9639	35A9786	35A9726	143	89-3/8"	35A9648 - 46-1/2"	35A2788 - 54"	124"	80"
36A9593	36A9640	35A9787	35A9722	123	76-7/8"	35A9649 - 61-1/2"	35A2789 - 55-1/2"	127"	81-1/2"
36A9594	36A9641	35A9788	35A9723	129	80-5/8"	35A9649 - 61-1/2"	35A2790 - 57"	130"	83"
36A9595	36A9642	35A9789	35A9724	133	83-1/8"	35A9649 - 61-1/2"	35A2791 - 58-1/2"	133"	84-1/2"
36A9596	36A9643	35A9790	35A9725	139	86-7/8"	35A9649 - 61-1/2"	35A2792 - 60"	136"	86"
36A9597	36A9644	35A9791	35A9727	145	90-5/8"	35A9649 - 61-1/2"	35A2793 - 61-1/2"	139"	87-1/2"
36A9598	36A9645	35A9792	35A9728	149	93-1/8"	35A9649 - 61-1/2"	35A2794 - 63"	142"	89"
36A9599	36A9646	35A9793	35A9730	155	96-7/8"	35A9649 - 61-1/2"	35A2795 - 65"	145"	90-1/2"
36A9600	36A9647	35A9794	35A9731	159	99-3/8"	35A9649 - 61-1/2"	35A2796 - 66-1/2"	148"	92-1/2"
36A9601	36A9648	35A9795	35A9733	165	103-1/8"	35A9649 - 61-1/2"	35A2797 - 68"	151"	94"
36A9602	36A9649	35A9796	35A9735	171	106-7/8"	35A9649 - 61-1/2"	35A2798 - 69-1/2"	154"	95-1/2"
36A9603	36A9650	35A9797	35A9736	175	109-3/8"	35A9649 - 61-1/2"	35A2799 - 71"	157"	97"
36A9604	36A9651	35A9798	35A9729	153	95-5/8"	35A9650 - 77-3/4"	35A2800 - 73"	160"	98-1/2"
36A9605	36A9652	35A9799	35A9732	161	100-5/8"	35A9650 - 77-3/4"	35A2801 - 74-1/2"	163"	100-1/2"
36A9606	36A9653	35A9800	35A9733	165	103-1/8"	35A9650 - 77-3/4"	35A2802 - 76"	166"	102"
36A9607	36A9654	35A9801	35A9734	169	105-5/8"	35A9650 - 77-3/4"	35A2803 - 77-1/2"	169"	103-1/2"
36A9608	36A9655	35A9802	35A9736	175	109-3/8"	35A9650 - 77-3/4"	35A2804 - 79"	172"	105"
36A9609	36A9656	35A9803	35A9737	183	114-3/8"	35A9650 - 77-3/4"	35A2805 - 81"	175"	106-1/2"
36A9610	36A9657	35A9804	35A9738	187	116-7/8"	35A9650 - 77-3/4"	35A2805 - 81"	178"	108-1/2"

NOTE: For breakdown of lift cylinder see page 72.

NOTE: Order replacement parts on Forks, Extension Forks, Carriages and Safety Racks from White Mobilift Sales Department.

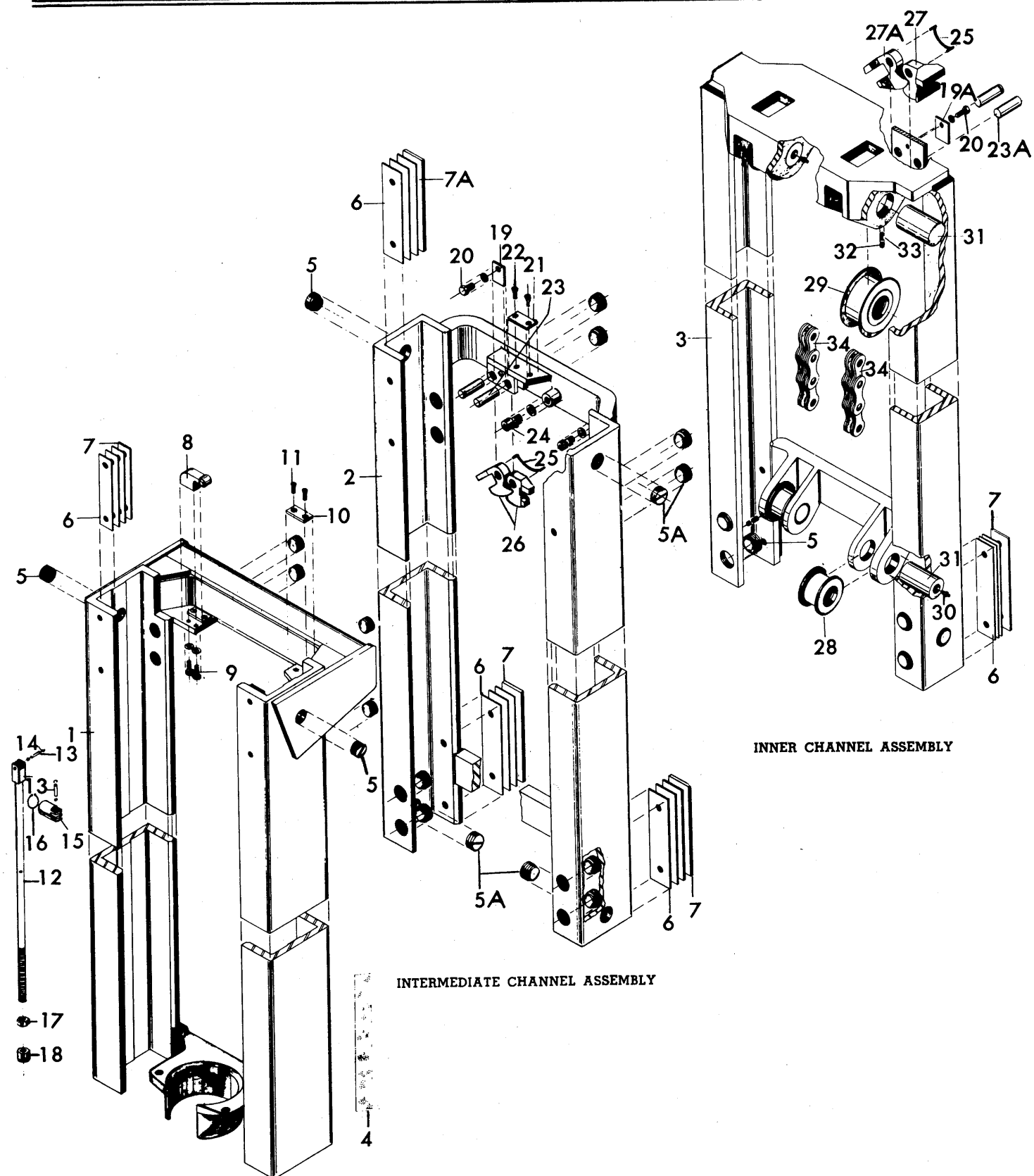
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		UPRIGHT FOR TRIPLEX TRI-FREE LIFT (Cascade Viewmast) Group I - for MSB 20 and 25	
1	-----	*Channel - outer assembly	1
2	-----	*Channel - center assembly	1
3	-----	*Channel - inner assembly	1
		*NOTE: Order above parts by M.F.H. and O.A.H.L.	
4	35A4046	Bushing - channel mounting	2
		50A1268 - Screw, bearing cap, 5/8"-11 x 2-1/2".....	4
5	35P1838	Plug - channel, outer and inner.....	18
5A	35P2024	Plug - channel, center.....	12
6	35P1839	Shim - bearing	A.R.
7	35P1840	Bearing - channels, outer and inner	4
7A	35P2025	Bearing - channels, center	4
	-----	Bolt - hex., 3/8"-24 x 1/2".....	16
8	35P1841	Trip.....	1
9	-----	Bolt - hex., 3/8"-24 x 1".....	2
10	35P1830	Pad	1
11	-----	Bolt - hex., 1/4"-28 x 3/8".....	2
12	35P2022	Rod - lift	2
13	35P1845	Pin - rod and anchor.....	4
14	35P1844	Retainer - pin	8
15	35P2023	Anchor - chain, outer channel.....	2
17		GM114498 - Nut, hex. jam, 5/8"-18.....	2
18		50A1011 - Nut, hex., (Nylock) 5/8"-18.....	2
19	35P1849	Keeper - pins, center channel	1
19A	35P2036	Keeper - pins, inner channel	1
20	-----	Bolt - hex., 3/8"-24 x 1/2".....	2
21	35P1830	Pad - center channel	1
22	-----	Bolt - hex., 1/4"-28 x 3/8".....	2
23	35P1850	Pin - latch, center channel	2
23A	35P2035	Pin - latch, inner channel	1
24	-----	Bolt - hex., socket, 1/2"-13 x 3/4".....	1
25	35P1851	Spring - latch, center channel.....	2
25A	35P2037	Spring - latch, inner channel.....	1
26	35P1852	Latch - lift, center channel	2
27	35P2038	Latch - lift, inner channel, L.H.	1
27A	35P2039	Latch - lift, inner channel, R.H.	1
28	35P2026	Sheave - chain, lower.....	2
29	35P2028	Sheave - chain, upper.....	2
30	-----	Fitting - grease, straight, 1/4"-28	4
31	35P2027	Shaft - sheaves	4
32	-----	Screw - hex. socket, jam, 1/4"-20	4
33	-----	Set Screw - hex. socket, 5/16"-24 x 5/8".....	4
34	-----	Chain - lift, see chart below, 5/8" pitch BL534.....	2

CHAIN FOR LIFT - 5/8" Pitch BL534

M.F.H.	O.A.H.L.	Chain Length	M.F.H.	O.A.H.L.	Chain Length
133"	70"	156-7/8"	161"	76"	181-7/8"
137"	70"	156-7/8"	165"	76"	181-7/8"
141"	70"	156-7/8"	169"	76"	181-7/8"
145"	70"	156-7/8"	169"	82"	193-1/8"
149"	70"	163-1/8"	173"	82"	199-3/8"
151"	70"	163-1/8"	177"	82"	199-3/8"
149"	76"	175-5/8"	181"	82"	199-3/8"
153"	76"	175-5/8"	185"	82"	205-5/8"
157"	76"	175-5/8"			

MSB SERIES FORK LIFT TRUCKS



INNER CHANNEL ASSEMBLY

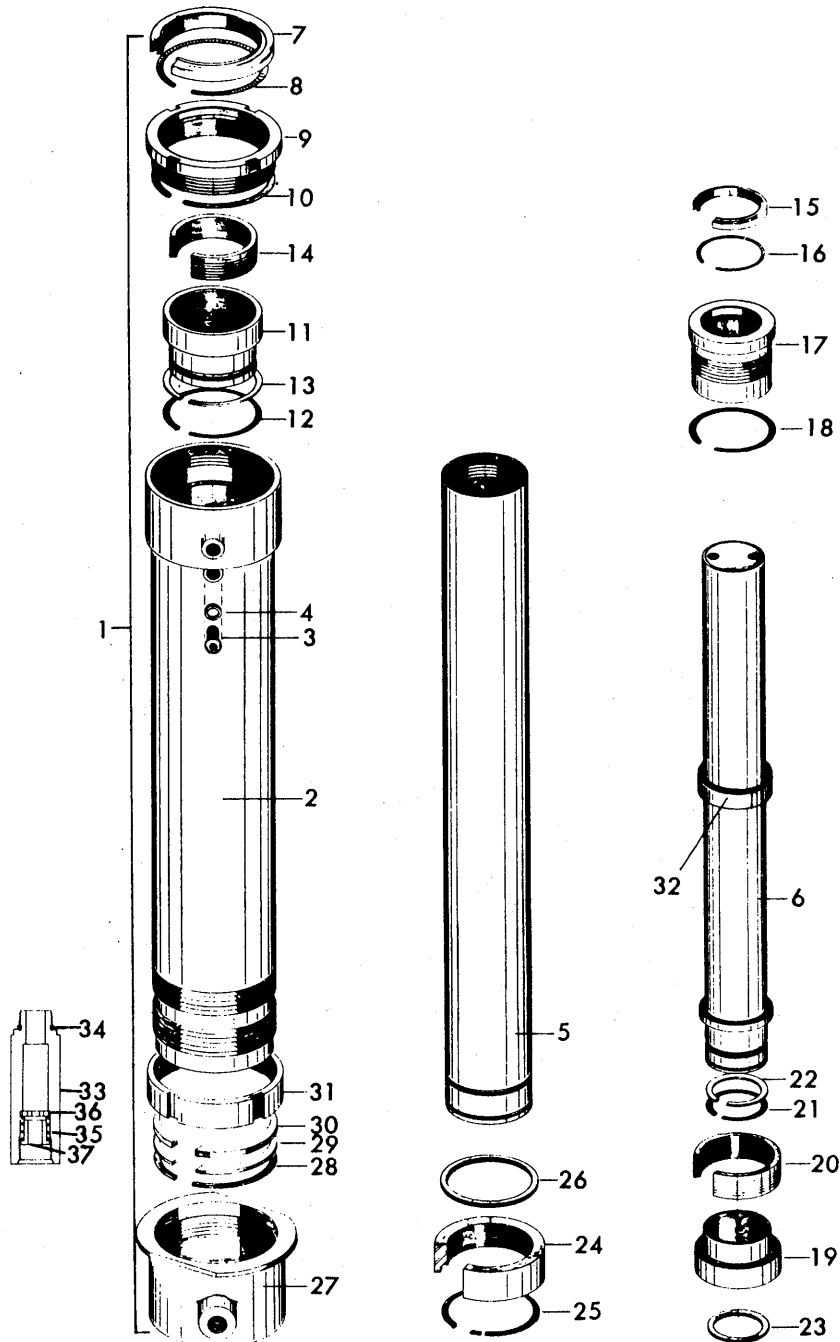
INTERMEDIATE CHANNEL ASSEMBLY

OUTER CHANNEL ASSEMBLY

MSB SERIES FORK LIFT TRUCKS

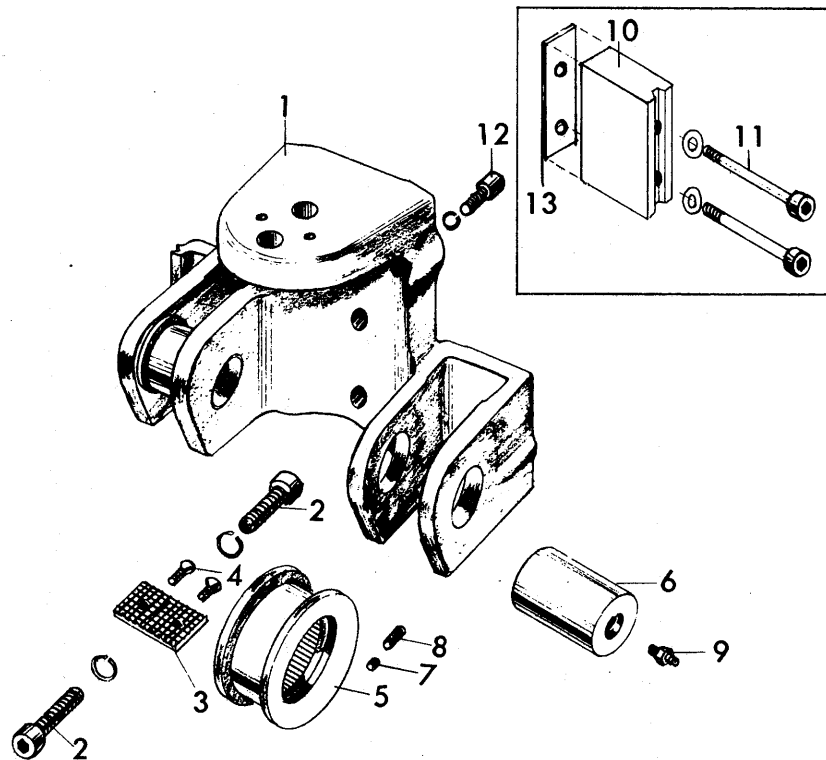
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		TRIPLEX TRI-FREE LIFT CYLINDER (Cascade Viewmast) Group II 4" Diameter, for MSB 20 and 25	
1	-----	*Cylinder - assembly, complete	1
		*NOTE: Order above part by M.F.H. and O.A.H.L. Each includes the following 37 parts:	
2	35P1457	Shell - cylinder, outer, for 70" O.A.H.L. mast	1
2	35P2041	Shell - cylinder, outer, for 76" O.A.H.L. mast	1
2	35P2042	Shell - cylinder, outer, for 82" O.A.H.L. mast	1
3	35P833	Screw - button head, cylinder shell	1
4	35P832	**Seal - button head screw	1
5	35P1201	Tube - cylinder, intermediate, for 70" O.A.H.L. mast	1
5	35P2043	Tube - cylinder, intermediate, for 76" O.A.H.L. mast	1
5	35P2044	Tube - cylinder, intermediate, for 82" O.A.H.L. mast	1
6	35P2045	Plunger - cylinder, inner, for 70" O.A.H.L. mast	1
6	35P2046	Plunger - cylinder, inner, for 76" O.A.H.L. mast	1
6	35P2047	Plunger - cylinder, inner, for 82" O.A.H.L. mast	1
7	35P183	**Ring - wiper, intermediate tube	1
8	35P182	**Spring - garter, wiper ring	1
9	35P1207	Retainer - wiper ring	1
10	10A 7846	**"O" Ring - retainer	1
11	35P1208	Bushing - intermediate tube	1
12	35P1209	**"O" Ring - intermediate tube bushing	1
13	35P1210	**Ring - back-up, "O" ring	1
14	35P1215	**Packing - tube bushing	1
15	35P1212	**Ring - wiper, plunger	1
16	35P1206	**Spring - garter, wiper ring	1
17	35P1213	Retainer - plunger wiper ring	1
18	35P174	**"O" Ring - wiper retainer	1
19	35P1214	Piston	1
20	35P1211	**Packing - piston	1
21	10A 7956	**"O" Ring - piston, inner	1
22	35P1216	**Ring - back-up, "O" ring	1
23	35P1217	Ring - snap, piston retainer	1
24	35P1218	Bearing - intermediate tube	1
25	35P1219	Ring - bearing retainer	1
26	35P1220	Ring - snap, bearing	1
27	35P2040	Head - cylinder	1
28	35P1222	**"O" Ring - cylinder head, lower	1
29	35P1459	**Ring - back-up, head "O" ring	1
30	35P1460	**Ring - cylinder, head, upper	1
	35R70	Repair Kit - for cylinder	1
		NOTE: Repair Kit consists of the above items identified by a double asterisk ().	
31	35P1461	Nut - lock, cylinder head	1
33	35P1836	Body - restrictor	1
34	10A16285	"O" Ring - body	1
35	35A4932	Spring - oil restrictor	1
36	35P1837	Washer - perforated, oil restrictor	1
37	35P148	Spacer - oil restrictor	1

MSB SERIES FORK LIFT TRUCKS



MSB SERIES FORK LIFT TRUCKS

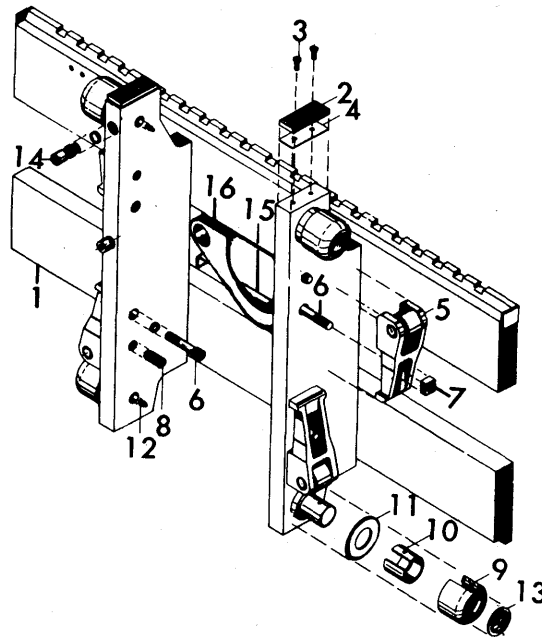
Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		CROSS HEAD FOR UPRIGHT (Cascade Viewmast) Group III - for MSB 20 and 25	
1	35P2049	Cross Head - upright	1
2	-----	Bolt - socket head, 1/4"-20 x 1-1/4"	2
3	35P1830	Pad - head	1
4	-----	Bolt - flat head, hex. socket, 1/4"-28 x 1/2"	2
5	35P2026	Sheave - cross head	2
6	35P2027	Shaft - sheave	2
7	-----	Socket Jam Screw - 1/4"-20	2
8	-----	Set Screw - cup point, hex. socket, 1/4"-20 x 3/8"	2
9	-----	Fitting - grease, straight, 1/4"-28	2
10	35P2052	Shoe - head	2
11	-----	Bolt - hex. socket, 1/2"-13 x 3/4"	2
12	-----	Bolt - hex. socket, 5/8"-11 x 1"	2
13	35P2053	Shim - shoe	A.R.



	ADAPTING PARTS FOR TRIPLEX TRI-FREE LIFT (Cascade Viewmast)	
	Group IV - for MSB 20 and 25	
35A4046	Bushing - axle	2
	50A4629 - Fitting, grease, 1/8" straight	2
35A7349	Tube - vent, U-shaped, 1/4" O.D. x 3/8" O.D. tubing	1
35A7333	Hose - vent, 1/4" I.D. x 33" long	1
35A7307	Elbow - vent hose, 90°, 1/4"-18 N.P.T.	1
	50A3573 - Clamp, hose, 7/16".....	2

MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
		CARRIAGE FOR TRIPLEX TRI-FREE LIFT (Cascade Viewmast) Group V - for MSB 20 and 25	
1	-----	Carriage - assembly, order from Mobilift Sales Department.....	1
		Includes the following parts:	
2	35P2054	Wear Pad - carriage	2
3	-----	Bolt - hex. socket, flat head, 1/4"-28 x 1/2"	4
4	35P2055	Shim - wear pad	A.R.
5	35P1865	Roller - assembly, carriage guides	4
6	-----	Bolt - hex. socket, 1/2"-13 x 1-1/2".....	4
7	35P1866	Nut - bolt, roller support, 1/2"-13	4
8	-----	Screw - adjusting, roller assembly, half dog, nylock, 5/8"-11 x 1".....	4
9	35P1868	Roller - carriage	4
10	35P1867	Sleeve - roller	4
11	35P1854	Washer - roller, inner	4
12	-----	Fitting - grease, straight, 1/4"-28	5
13	35P1869	Plug - roller, outer	4
14	35P1864	Screw - hex. socket, 5/16"-18 x 1".....	2
15	35P2056	Bar - yoke	1
16	35P2057	Yoke - carriage	1
	-----	Bolt - hex., 3/8"-24 x 2".....	2

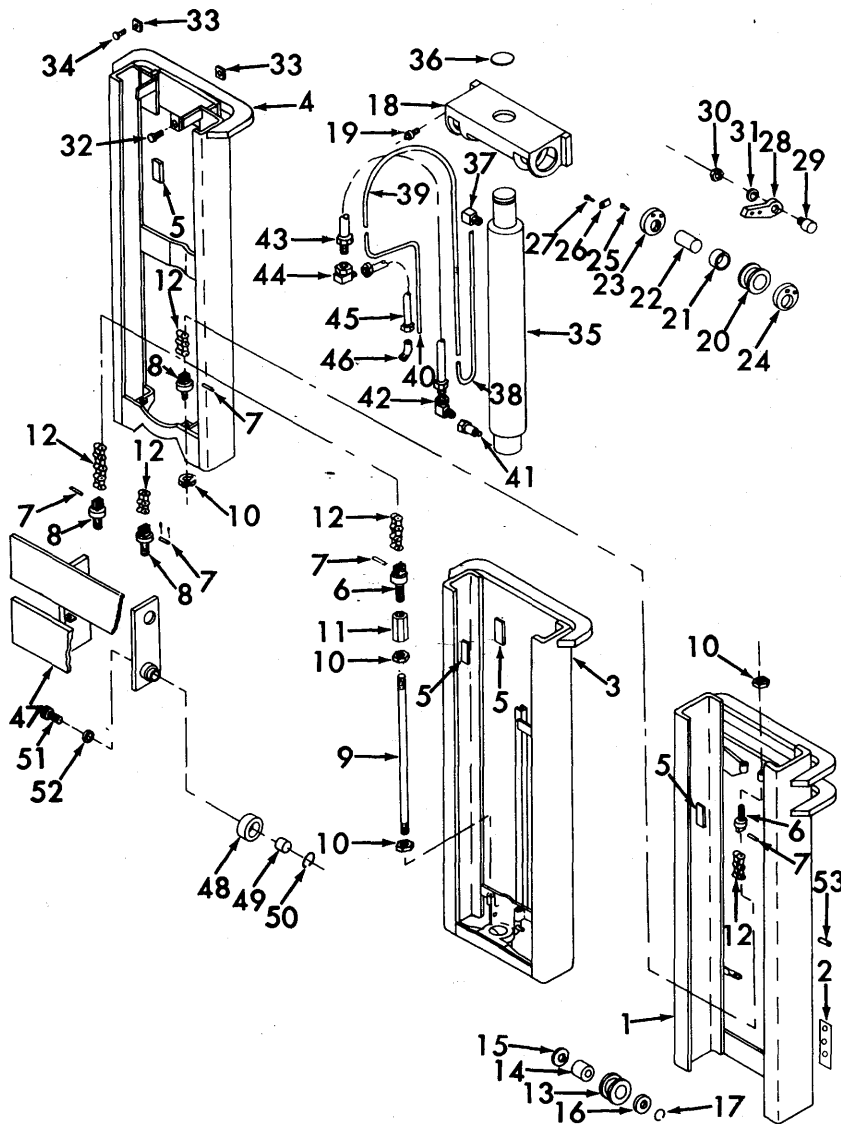


MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.	
		TRIPLEX MAST - LOW FREE (KNICKERBOCKER) 2500# AND 3000# GROUP I		
			2500#	3000#
1	35P2298	*Rail - outer assembly.....	1	1
		GM191758 Fitting - grease, 1-1/8" straight.....	3	3
		50A1169 Bolt - 12 pt., 1/2"-13 x 2-1/2".....	4	4
		GM120384 Washer - lock, 1/2".....	4	4
2	35A4046	Bushing - axle.....	2	2
3	35P2299	*Rail - center assembly.....	1	1
4	35P2300	*Rail - inner assembly.....	1	1
5	35P1612	Pad - wear.....	32	32
6	35P1667	Anchor - chain, outer rail and turnbuckle.....	4	4
7	35P2301	Pin - chain anchors.....	8	8
		50A3818 Pin - cotter, 1/16" x 1/2".....	16	16
8	35P1657	Anchor - chain, inner rail.....	2	2
9	35P2302	*Rod - lift.....	2	2
10		----- Nut - hex., anchors and rods (Knickerbocker 15-190).....	8	8
11	35P2303	Turnbuckle - rod.....	2	2
12	35P2304	*Chain - lift, 5/8" pitch, No. BL534.....	4	4
13	35P1649	Roller - chain, lower, center rail.....	2	2
14	35P1651	Bearing - roller.....	2	2
15	35P1652	Washer - thrust, inner.....	2	2
16	35P2306	Washer - thrust, outer.....	2	2
17	35P1654	Ring - retainer, chain rollers.....	2	2
18	35P2312	Cross Head.....	1	1
19	35P2314	Fitting - grease, oiler, 1-1/4"-28 (Alemite G-1641).....	4	4
20	35P2309	Roller - chain, in cross head.....	2	2
21	35P1651	Bearing - roller.....	2	2
22	35P2308	Pin - roller.....	2	2
23	35P2307	Rocker - inner, cross head.....	2	2
24	35P2305	Rocker - outer, cross head.....	2	2
25		----- Fitting - grease, 1/4"-28 x 65°.....	2	2
26	35P651	Lock - rocker.....	2	2
27		----- Screw - lock, 5/16"-18 x 1/2".....	2	2
28	35P2310	Arm - rocker.....	2	2
29	35P2311	Roller - arm, cross head.....	2	2
30		50A4751 Nut - lock, roller, 1/2"-20.....	2	2
31		50A2707 Washer - lock.....	2	2
32		----- Screw - stop, inner rail, 1/2"-20 x 3/4", Allenhead.....	1	1
33	35P2315	Stop - rail.....	2	2
34		----- Screw - stop, flat head, 1/2"-20 x 1".....	2	2
35	35P2316	*Cylinder - lift, see breakdown on page 84.....	1	-
35	35P2347	*Cylinder - lift, see breakdown on page 84.....	-	1
36	35P2313	Ring - retainer, cylinder to cross head, (Spirolox RS-125).....	1	1
37	35P2317	Fitting - vent, cylinder.....	1	1
38	35P2318	*Tube - vent, cylinder end.....	1	1
39	35P2319	*Hose - vent, cylinder.....	1	1
40	35P2320	Tube - vent, truck end.....	1	1
41	35P2326	Adapter - cylinder feed.....	1	1
42	35P2321	Elbow - feed hose.....	1	1
43	35P2322	*Hose - assembly, with guard.....	1	1
		*NOTE: Order parts for lift by serial number of mast plus MFH & OAH.		
44	35P2325	Elbow - truck end.....	1	1
45	35P2324	Tube - assembly.....	1	1
46	35P2323	Adapter - tube, truck end.....	1	1
47	-----	Carriage - mast.....	1	1
48	35P2329	Roller - carriage.....	4	4
49	35P2331	Ring - snap, carriage roller (Tru-Arc 5108-156).....	4	4
50	35P2330	Plug - carriage, side thrust.....	4	4
51	35P2327	Screw - adjusting, side thrust, carriage.....	4	4
52	35P2328	Nut - screw, insert, side thrust.....	4	4

MSB SERIES FORK LIFT TRUCKS

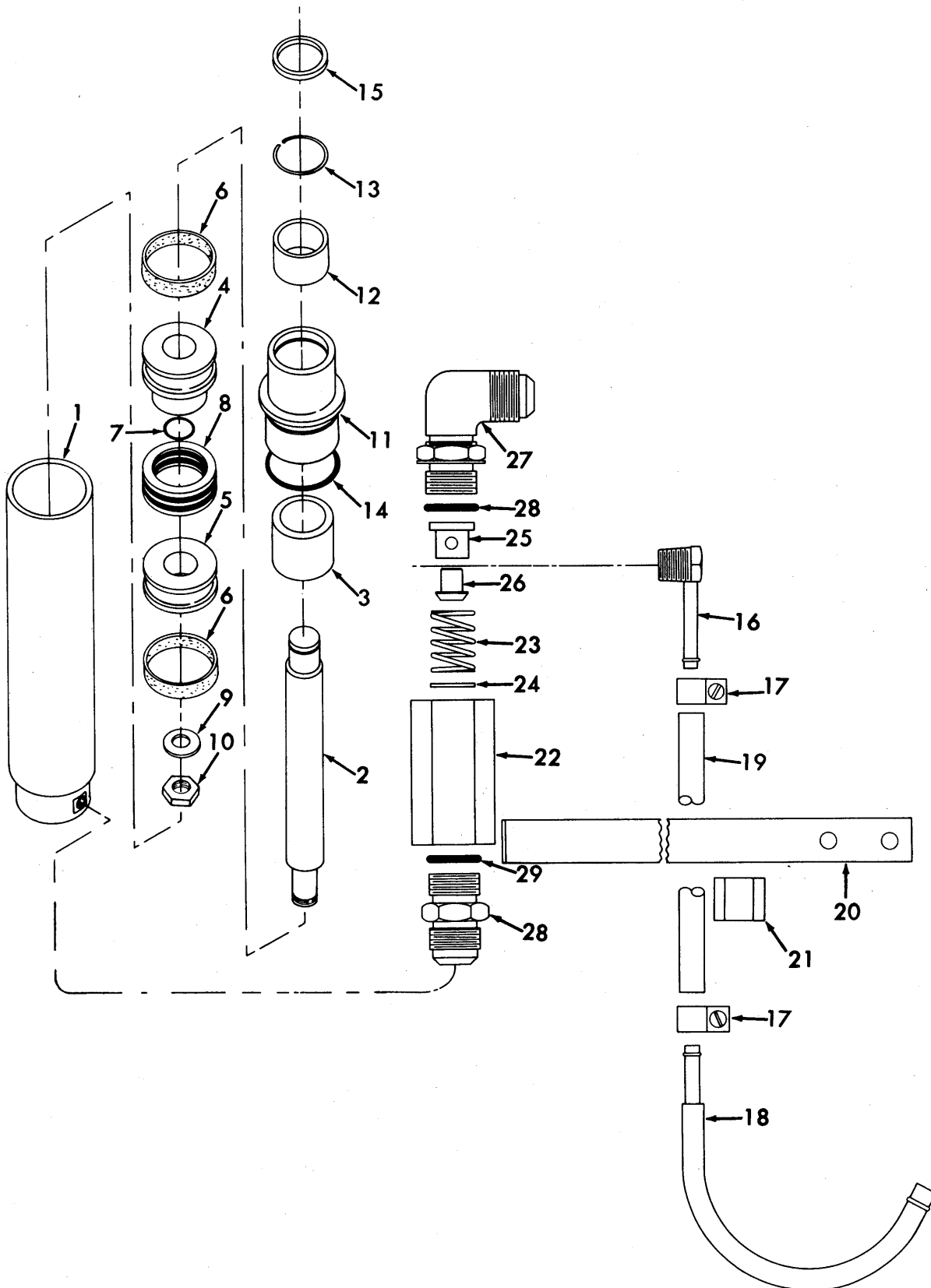
Ref. No.	Part No.	DESCRIPTION	No. Pcs.	
53	35A5301	TRIPLEX MAST - LOW FREE (KNICKERBOCKER) 2500# AND 3000# (Cont'd)	2500#	3000#
		Pin - tilt, cylinder	2	2
		50A2852 Pin - roll, 1/4" x 2-1/2"	2	2



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.	
		LIFT CYLINDER - LOW FREE (KNICKERBOCKER) 2500# AND 3000# Group II		
			2500#	3000#
	35P2316	*Cylinder - lift, assembly, 2500#	1	-
	35P2347	*Cylinder - lift, assembly, 3000#	-	1
		Includes the following 15 parts:		
1	35P2344	*Cylinder - with hose, assembly.....	1	1
2	35P2336	*Rod - piston	1	1
3	35P2335	Spacer - rod.....	-	1
4	35P2338	Piston - rod, upper	1	1
5	35P2341	Piston - rod, lower	1	1
6	35P2337	Ring - wear, piston	2	2
7	35P2339	** "O" Ring - piston, 1/8" x 1-1/4" I.D., 1-1/2" O.D.....	1	1
8	35P2340	** Packing - cylinder.....	1	1
9	35P2342	Washer - piston rod, 1-1/4" I.D., 2-3/4" O.D.....	1	1
10	35P2343	Nut - piston rod, (Flexloc) 1"-14 thin.....	1	1
11	35P2334	Head - cylinder.....	1	1
12	35P2333	Bushing - head.....	1	1
13	35P2332	Ring - retainer, cylinder head.....	1	1
14	35P2345	** "O" Ring - head, 1/8" x 3-1/2" I.D., 3-3/4" O.D.....	1	1
15	35P2346	** Wiper - head	1	1
	35P2403	** Packing Kit - cylinder (includes parts identified with double asterisks (**))..	1	1
16	35A7307	Fitting - vent.....	1	1
17		50A3573 Clamp - hose	2	2
18	35A7349	Tube - vent	1	1
19	35A7334	Hose - vent, for 62" OAH and 126" MFH, 1/4" I.D. x 36".....	1	1
19	35A7380	Hose - vent, for 65" OAH and 135" MFH, 1/4" I.D. x 39".....	1	1
19	35A7381	Hose - vent, for 68" OAH and 144" MFH, 1/4" I.D. x 42".....	1	1
19	35A7382	Hose - vent, for 71" OAH and 153" MFH, 1/4" I.D. x 45".....	1	1
19	35A7383	Hose - vent, for 74" OAH and 162" MFH, 1/4" I.D. x 48".....	1	1
19	35A7384	Hose - vent, for 77" OAH and 171" MFH, 1/4" I.D. x 51".....	1	1
19	35A7385	Hose - vent, for 80" OAH and 180" MFH, 1/4" I.D. x 54".....	1	1
19	35A7386	Hose - vent, for 83" OAH and 189" MFH, 1/4" I.D. x 57".....	1	1
19	35A7387	Hose - vent, for 86" OAH and 198" MFH, 1/4" I.D. x 60".....	1	1
19	35A7388	Hose - vent, for 89" OAH and 207" MFH, 1/4" I.D. x 63".....	1	1
20	35A7070	Strap - vent hose.....	1	1
		GM133056 Screw - rd. hd., 1/4"-20 x 1-1/2".....	1	1
		GM120375 Nut - hex., 1/4"-20	1	1
21	35A1464	Spacer - strap.....	1	1
22	35A8098	Body - restrictor.....	1	1
23	35A7913	Spring - oil restrictor	1	1
24	35A7795	Disc - oil restrictor.....	1	1
25	35A7792	Sleeve - oil restrictor.....	1	1
26	35A7793	Hot - oil restrictor	1	1
27		50A4425 Elbow - connecting, 90°.....	1	1
28		50A4428 Connector - restrictor, straight	1	1
29	10A16285	"O" Rings - fittings.....	2	2

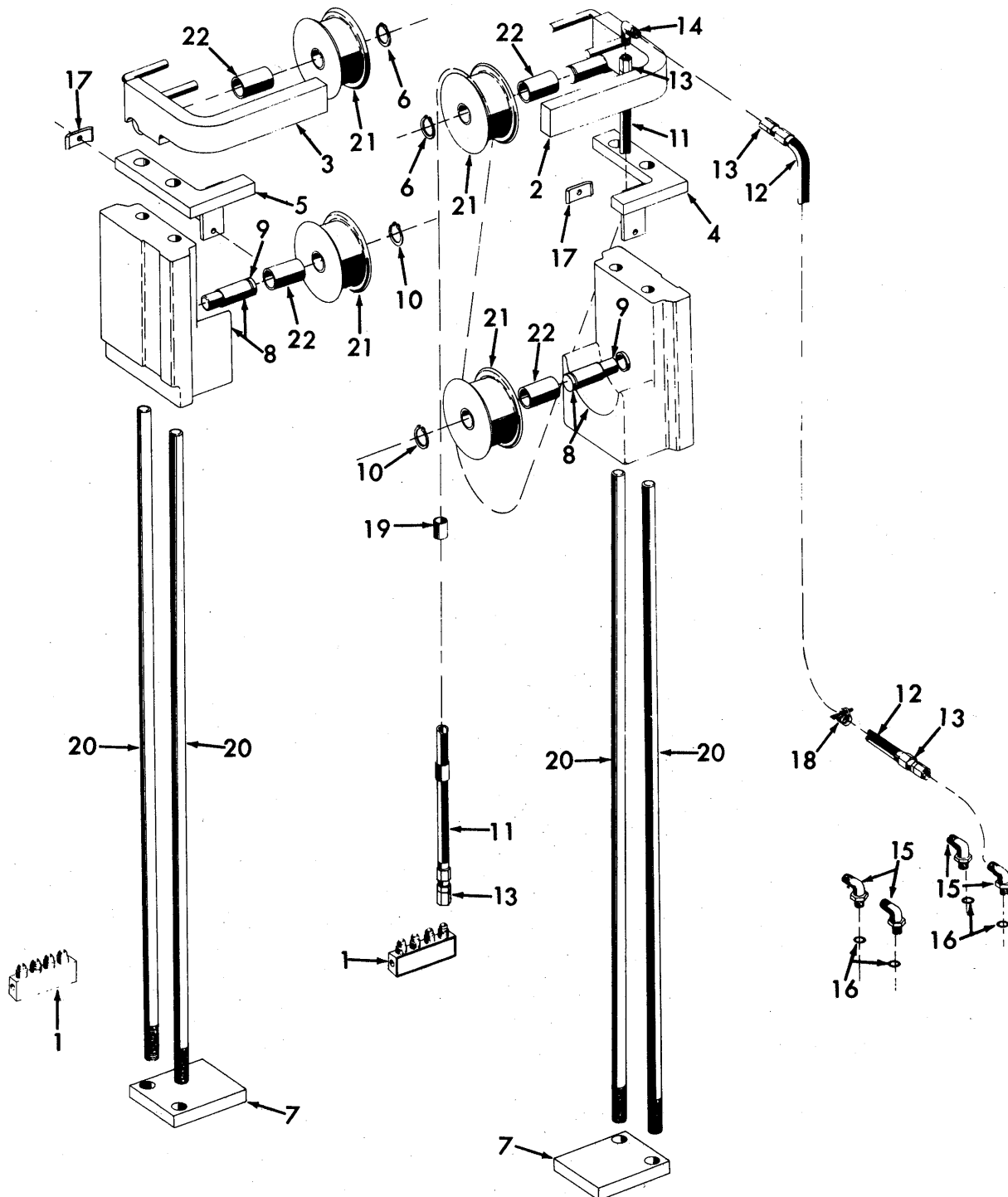
MSB SERIES FORK LIFT TRUCKS



MSB SERIES FORK LIFT TRUCKS

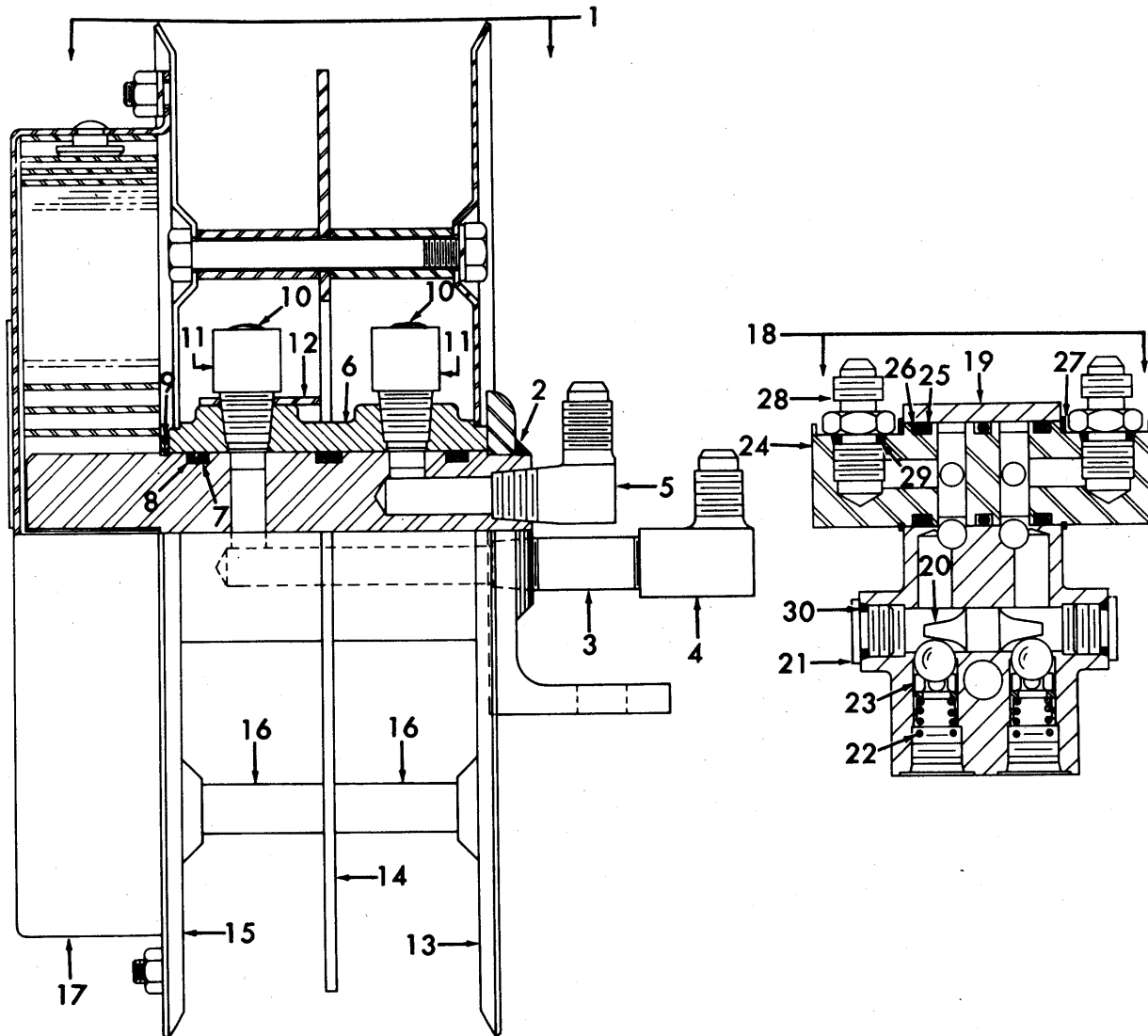
Ref. No.	Part No.	DESCRIPTION	No. Pcs.	
		SHEAVE TAKE-UP - FOR HOSES		
			Single	Double
1	36A8083	Junction Block - hoses	1	2
2	36A8080	Support - assembly, R.H.	-	1
3	36A8081	Support - assembly, L.H.	1	1
4	36A8093	Bracket - support, R.H.	-	1
5	36A8082	Bracket - support, L.H.	1	1
6	10A11140	Snap Ring - support pin	1	2
7	35A8088	Block - guide rod	1	2
8	35B8090	Block - sheave take-up	1	2
		Includes the following part:		
9	35A8085	Pin - sheave, 1" x 3-1/8"	1	2
10	10A11140	Snap Ring - pin	1	2
11	-----	Hose - junction block to elbow, see chart on bottom of page	2	4
12	-----	Hose - elbow to auxiliary valve, see chart on bottom of page.....	2	4
	35P1640	Hose - 1' of 3/8" I.D., single braid hose	-	-
13		50A2620 - Fitting, hose ends	8	16
14		50A4859 - Elbow, hoses, upper ends, 90°.....	2	4
15		50A4423 - Elbow, hoses, to valve, 90°.....	2	4
16	10A16405	"O" Ring - elbow	2	4
17	35A8094	Clamp - hose, mounts to support	1	2
		50A3650 - Bolt, hex., 1/4"-20 x 1-1/2".....	1	2
		50A1898 - Nut, hex., 1/4"-20	2	4
18	35A8049	Clamp - hose, mounts to front tilt cylinder hose	1	2
19	35A8304	Band - hoses, 3/4" I.D. x 1" long	30	60
20	-----	Rod - guide, see chart on bottom of page	-	-
		50A3747 - Nut, hex. jam, 3/4"-10	4	8
21	35B8089	Sheave - block and support, 4-13/16" dia.	2	4
		Includes the following part:		
22	35A8091	Bushing - sheave, 1" I.D. x 2" long	2	4

MFH	OAHL	Guide Rod	-	Length	Hose Junction Block to Elbow	Hose Elbow to Aux. Valve
106"	71"	50A4837		43-3/4"	79"	72-1/2"
109"	72-1/2"	50A4838		45-1/4"	80-1/2"	74"
112"	74"	50A4840		46-3/4"	82"	75-1/2"
115"	75-1/2"	50A4842		48-1/4"	83-1/2"	77"
118"	77"	50A4844		49-3/4"	85"	78-1/2"
121"	78-1/2"	50A4846		51-1/4"	86-1/2"	80"
124"	80"	50A4849		52-3/4"	88"	81-1/2"
127"	81-1/2"	50A4852		54-1/4"	89-1/2"	83"
130"	83"	50A4839		46"	91"	84-1/2"
133"	84-1/2"	50A4840		46-3/4"	92-1/2"	86"
136"	86"	50A4841		47-1/2"	94"	87-1/2"
139"	87-1/2"	50A4842		48-1/4"	95-1/2"	89"
142"	89"	50A4843		49"	97"	90-1/2"
145"	90-1/2"	50A4844		49-3/4"	98-1/2"	92"
148"	92-1/2"	50A4845		51"	100-1/2"	93-1/2"
151"	94"	50A4847		51-3/4"	102"	95"
154"	95-1/2"	50A4848		52-1/2"	103-1/2"	96-1/2"
157"	97"	50A4850		53-1/4"	105"	98"
160"	98-1/2"	50A4851		54"	106-1/2"	99-1/2"
163"	100-1/2"	50A4853		55-1/4"	108-1/2"	101"
166"	102"	50A4854		56"	110"	102-1/2"
169"	103-1/2"	50A4855		56-3/4"	111-1/2"	104"
172"	105"	50A4856		57-1/2"	113"	105-1/2"
175"	106-1/2"	50A4857		58-1/4"	114-1/2"	107"
178"	108-1/2"	50A4858		60-1/4"	116-1/2"	108-1/2"



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.	
			Narrow Reel	Wide Reel
		HOSE REELS		
1	35A1469	Reel - hose, left hand, 91" thru 207" (Duplex Mast)	1	-
1	35A6833	Reel - hose, left hand, 91" thru 207" (Triplex Mast)	-	1
1	35A3244	Reel - hose, right hand, 91" thru 207" (Duplex Mast)	1	-
1	35A6834	Reel - hose, right hand, 91" thru 207" (Triplex Mast)	-	1
		Each includes the following 21 parts:		
		50A3679 - Bolt, hex., Zinc, 1/2"-13 x 1"	2	2
2	35P1175	Shaft - assembly, reel	1	-
2	35P1176	Shaft - assembly, reel	-	1
3	35P1173	Nipple - shaft, 2"	1	1
4	35P1172	Elbow - nipple, female	1	1
5	35P1174	Elbow - shaft, male end	1	1
6	35P1182	Hub - reel	1	-
6	35P1183	Hub - reel	-	1
7	10A7956	"O" Ring - shaft	3	3
8	35P1031	Ring - back-up, "O" ring	4	4
9	35P1184	Snap Ring - hub	1	1
10	35P1097	Elbow - hub, 45°	2	2
11	35P1158	Elbow - hub, 90°	2	2
12	35P1162	Bar - reel	1	-
12	35P1171	Bar - reel	-	1
13	35P1177	Flange - reel, inner	1	1
14	35P1178	Divider - reel, center ring	1	1
15	35P1181	Flange - reel, outer	1	1
		50A1898 - Nut, hex., 1/4"-20	4	4
		50A1922 - Bolt, hex., 5/16"-18 x 3-1/4"	6	-
		GM187953 - Bolt, hex., 5/16"-18 x 4-1/2"	-	6
		50A3730 - Nut, hex., 5/16"-18	6	6
16	35P1179	Spacer - flanges, 1-5/16" long	11	-
16	35P1180	Spacer - flanges, 1-15/16" long	-	11
17	35P1185	Spring - assembly, with cover, R.H.	1	1
17	35P1186	Spring - assembly, with cover, L.H.	1	1
18	35A1482	Block - junction, hydraulic hoses	1	1
		Includes the following 12 parts:		
		50A3668 - Bolt, hex., 3/8"-16 x 1-1/2"	1	1
		50A4205 - Washer, plain, Zinc, 3/8"	1	1
19	35P1190	Body - block	1	1
20	35P1191	Plunger - body	1	1
21	35P1192	Plug - body	2	2
		GM145645 - Ball, steel, 7/16"	2	2
22	35P1193	Spring - ball	2	2
23	35P1194	Spacer - spring and ball	2	2
24	35P1069	Shaft - block	1	1
25	35P1189	"O" Ring - shaft	3	3
26	35P1188	Ring - back-up, "O" ring	2	2
27	35P1187	Snap Ring - shaft	2	2
28	35P1195	Connector - hose to shaft	2	2
29	10A6319	"O" Ring - connector, 3/8" I.D.	2	2
30	10A8025	"O" Ring - plug body, 13/32" I.D.	2	2
		GM9410976 - Connector, tubes to valve	2	2
	35P1640	Hose - reels, 1-foot of hose, 3/8" I.D., order length as needed for lift	2	2
		50A2620 - Fitting, hose ends	8	8
	10A16405	"O" Ring - fittings to valve	2	2
		50A2417 - Clip, upright, 3/4" wide	2	2
		50A3666 - Bolt, hex., 3/8"-16 x 1"	2	2

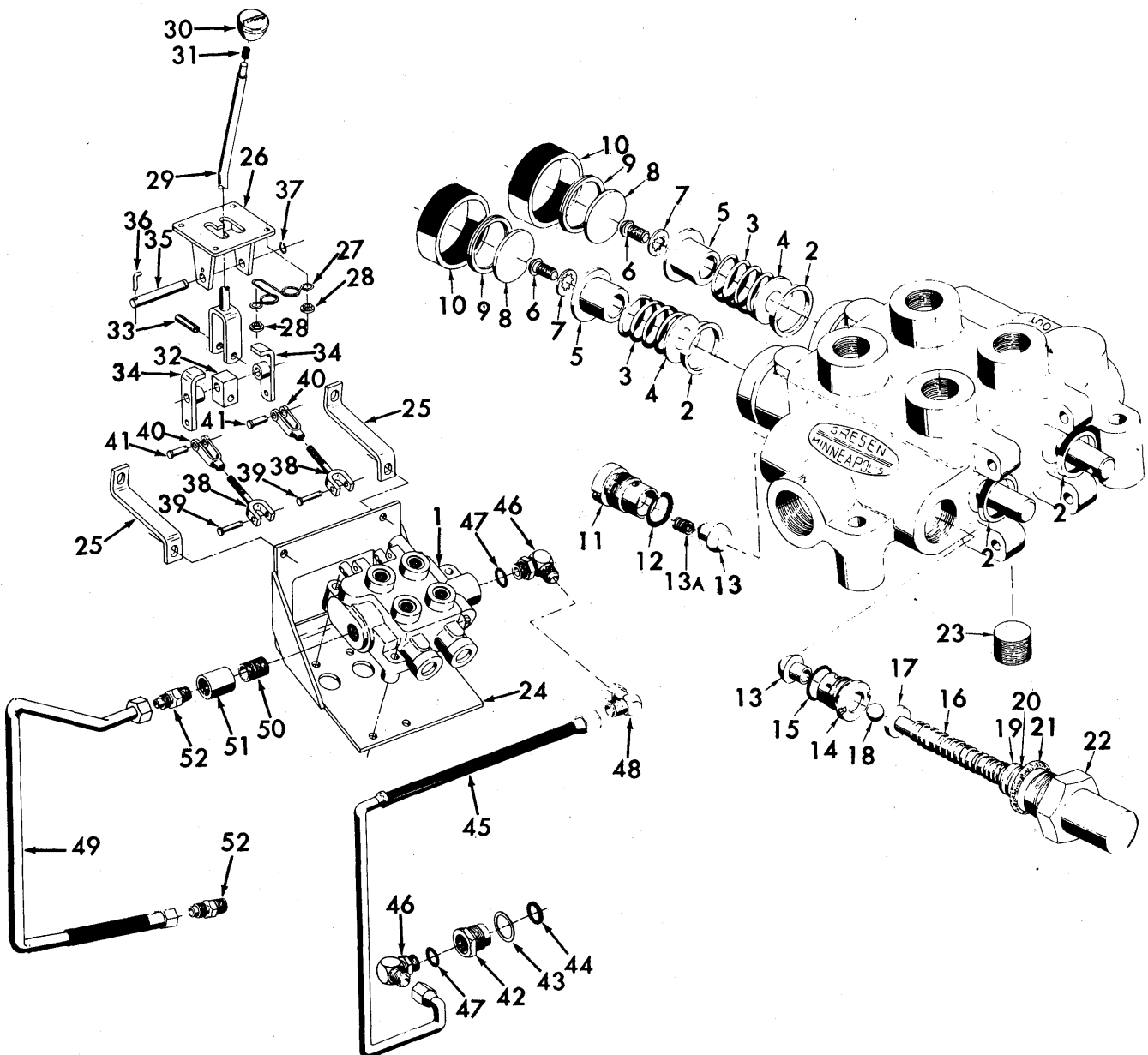


MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.	
		AUXILIARY VALVES	Single	Double
1	35A 6487	Valve - control, complete.....	1	-
1	35A 6488	Valve - control, complete.....	-	1
		Each includes the following 23 parts:		
		GM180134 - Bolt, hex., 3/8"-16 x 4-1/4".....	3	3
		GM120377 - Nut, hex., 3/8"-16.....	3	3
		GM120388 - Washer, plain, 7/16" I.D., 1" O.D.	3	3
2	15P660	Seal - spools, vee block type (early valves).....	2	4
2		50A1666 Seal - spools, quad ring style (late valves).....	-	4
3	15P656	Spring - spool centering.....	1	2
4	10P1652	Washer - stop, centering spring.....	1	2
5	15P654	Collar - stop, centering spring.....	1	2
6	15P652	Bolt - stop collar.....	1	2
7	10P1650	Washer - lock, stop collar bolt.....	1	2
8	15P655	Disc - stop collar.....	1	2
9	15P657	Ring - snap, stop disc.....	1	2
10	15P663	Bonnet - rubber, spool opening.....	1	2
11	35P215	Plug - ball check.....	1	1
12	10A 6329	"O" Ring - ball check plug.....	1	1
13	35P218	Plunger - check and relief valve.....	2	2
13A	20P4777	Spring - plunger, check valve.....	1	1
14	35P216	Seat - relief valve.....	1	1
15	10A 12012	"O" Ring - relief valve seat.....	1	1
16	35P227	Spring - relief.....	1	1
17	35P222	Guide - relief spring.....	1	1
18	35P213	Ball - relief guide.....	1	1
19	10A 16489	Washer - spacer, relief spring.....	1	1
20	10A 16490	Shim - relief spring.....	1	1
21	10A 16487	Gasket - relief spring cap.....	1	1
22	35P220	Cap - relief spring.....	1	1
23	35P1098	Plug - pipe.....	1	1
24	36A 6164	Bracket - mounting, auxiliary valve.....	1	1
		GM180122 - Bolt, hex., 3/8"-16 x 1".....	2	2
25	35A 6166	Brace - bracket.....	2	2
		GM180124 - Bolt, hex., 3/8"-16 x 1-1/4".....	4	4
		GM120377 - Nut, hex., 3/8"-16.....	6	6
		GM120394 - Washer, plain, 13/32" I.D., 13/16" O.D.....	4	4
26	36A 6185	Bracket - lever mounting.....	1	-
26	36A 6090	Bracket - lever mounting.....	-	1
		GM180022 - Bolt, hex., 1/4"-20 x 1".....	4	4
		GM120375 - Nut, hex., 1/4"-20.....	4	4
27	35A 7760	Spring - bracket.....	-	2
28	35A 6099	Step Washer - bolt.....	-	4
29	36A 8617	Lever - control.....	1	-
29	36A 8616	Lever - control.....	-	1
30	35A 8295	Knob - lever, solid.....	1	1
31		50A 4887 - Insert - knob.....	1	1
32	35A 6098	Bar - pivot.....	-	1
33		50A 2817 - Pin, roll, 3/8" x 2".....	-	1
34	36A 6094	Bell Crank - lever.....	-	2
35	35A 6096	Shaft - lever.....	1	1
36	35A 6097	Lock Pin - shaft.....	1	1
37		50A 1827 - Snap Ring, shaft (Tru-Arc 5133-50).....	1	1
38	36A 6184	Link - assembly, control lever to valve.....	1	2
39	15A 12318	Rivet - link, drilled, 1/4" x 1-1/2".....	1	2
		GM120393 - Washer, plain, 11/32" I.D., 11/16" O.D.	1	2
40		GM174887 - Clevis, short, 5/16"-24.....	1	2
		GM124920 - Nut, hex. jam, 5/16"-24.....	1	2
41		GM120690 - Pin, clevis, 5/16".....	1	2
		GM103373 - Pin, cotter, 3/32" x 3/4".....	2	4

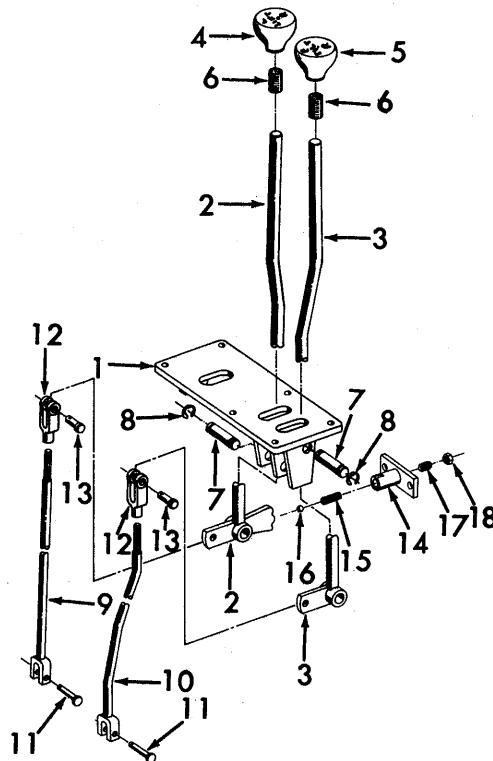
MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.	
AUXILIARY VALVES (Cont'd)				
			Single	Double
42	35A3120	Sleeve - power adapter, 7/16"-14 x 1-3/8".....	1	1
43	35A3117	Gasket - sleeve	1	1
44		50A1666 Quad Ring - sleeve.....	1	1
45	35A9927	Tube - control valve to auxiliary valve, 5/8" x 36-1/32".....	1	1
46		50A4425 Elbow - inlet, 7/8"-14 JIC x 90°.....	2	2
47	10A16285	"O" Ring - elbow.....	2	2
48		50A2763 Elbow - tube to inlet elbow, 5/8"-90°, 7/8"-14.....	1	1
49	35A9955	Hose and Tube - assembly, auxiliary valve to tank, 3/4" ID. x 30-13/16"..	1	1
50		50A4453 Nipple - close, 3/4" x 1-3/8".....	1	-
51		50A4579 Coupling - pipe, 3/4".....	1	-
52		50A4825 Connector - pipe, 3/4"-37° x 1-1/16 JIC	2	2



MSB SERIES FORK LIFT TRUCKS

Ref. No.	Part No.	DESCRIPTION	No. Pcs.
DUAL LEVER CONTROL - LIFT AND TILT			
1	36A8279	Plate - lever mounting	1
2	36A8280	Lever - lift, R.H.	1
3	36A8281	Lever - tilt, L.H.	1
4	35A8293	Knob - lift lever	1
5	35A8294	Knob - tilt lever	1
6		50A4887 - Insert, knob	2
7	35A8275	Shaft - levers	2
8		50A1827 - Snap Ring, shaft.....	4
9	36A8282	Link - connecting, lift rod	1
10	36A8283	Link - connecting, tilt rod	1
11	15A12318	Rivet - connecting link, clevis, 1/4" x 1-1/2".....	2
		GM120393 - Washer, plain, 11/32" I.D., 11/16" O.D.	2
		GM103373 - Pin, cotter, 3/32" x 3/4".....	2
12		GM174887 - Clevis, short, 5/16"-24	2
		GM124920 - Nut, hex. jam, 5/16"-24	2
13		GM120690 - Pin, clevis, 5/16" x 31/32"	2
		GM103373 - Pin, cotter, 3/32" x 3/4".....	2
14	36A8274	Bracket - detent, lifting lever	1
		50A3656 - Bolt, hex., 5/16"-18 x 1".....	2
		50A3730 - Nut, hex., 5/16"-18	2
		50A4221 - Washer, plain, 3/8" I.D., 7/8" O.D.	2
15	35A8284	Spring - detent	1
16		50A5062 - Ball, detent spring, 11/32" Dia.	1
17		50A4790 - Screw, hex. socket, lock type, 3/8"-16 x 1/2".....	1
18		50A3742 - Nut, hex. jam, 3/8"-16	1



NUMERICAL INDEX

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