

SERIAL NUMBERS:

Mark 78	1143038 and up
Mark 75A	1110600 and up
Mark 78A	1194070 and up

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(See Page 24 for Mark 78L, Mark 75AEL and Mark 78AEL Parts List)

NOTE: All Part Numbers preceded by a (●) are new and listed for the first time.

AR = As Required

TOP COWL AND STARTER ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 78
101-1432A2	1	Top Cowl Assembly	1
16-20353	2	Stud, top cowl to crankcase	2
16-20500	3	Stud, top cowl to cover	2
25-20116	-	Grommet, choke knob	1
37-28360	-	Decal Set, top cowl	1
23-20326	4	Spacer, top cowl stud	2
50-28895	5	Sheave Assembly	1
20155	6	Retainer, starter spring	1
24-29340A1	7	Spring, starter rewind	1
20157	8	Shaft, sheave	1
23-20158	9	Spacer, sheave shaft	1
23-20159	10	Bushing, spring guide	1
13-20160	11	Washer, wave - retainer tension	1
26179	12	Retainer, wave washer	1
12-26180	13	Washer, wave washer retainer	1
20162	14	Pawl, starter	3
13-29402	15	Washer, wave - starter pawl	3
20164	16	Plate, retainer - starter pawl	1
14-20165	17	Tab Washer, sheave shaft nut	1
11-20166	18	Nut, sheave shaft (left hand thread)	1
50-22791A1	19	Starter Cable Assembly	1
20662	20	Handle, starter cable	1
20172	21	End Cap, starter cable handle	1
12-20028	22	Washer, top cowl stud	4
12-20346	23	Washer, top cowl stud	4
11-20361	24	Nut, top cowl fastening	4
20485	25	Cover, trim - top cowl	1
10-22022	26	Screw, trim cover to top cowl	1
12-20286	27	Washer, trim cover screw	1

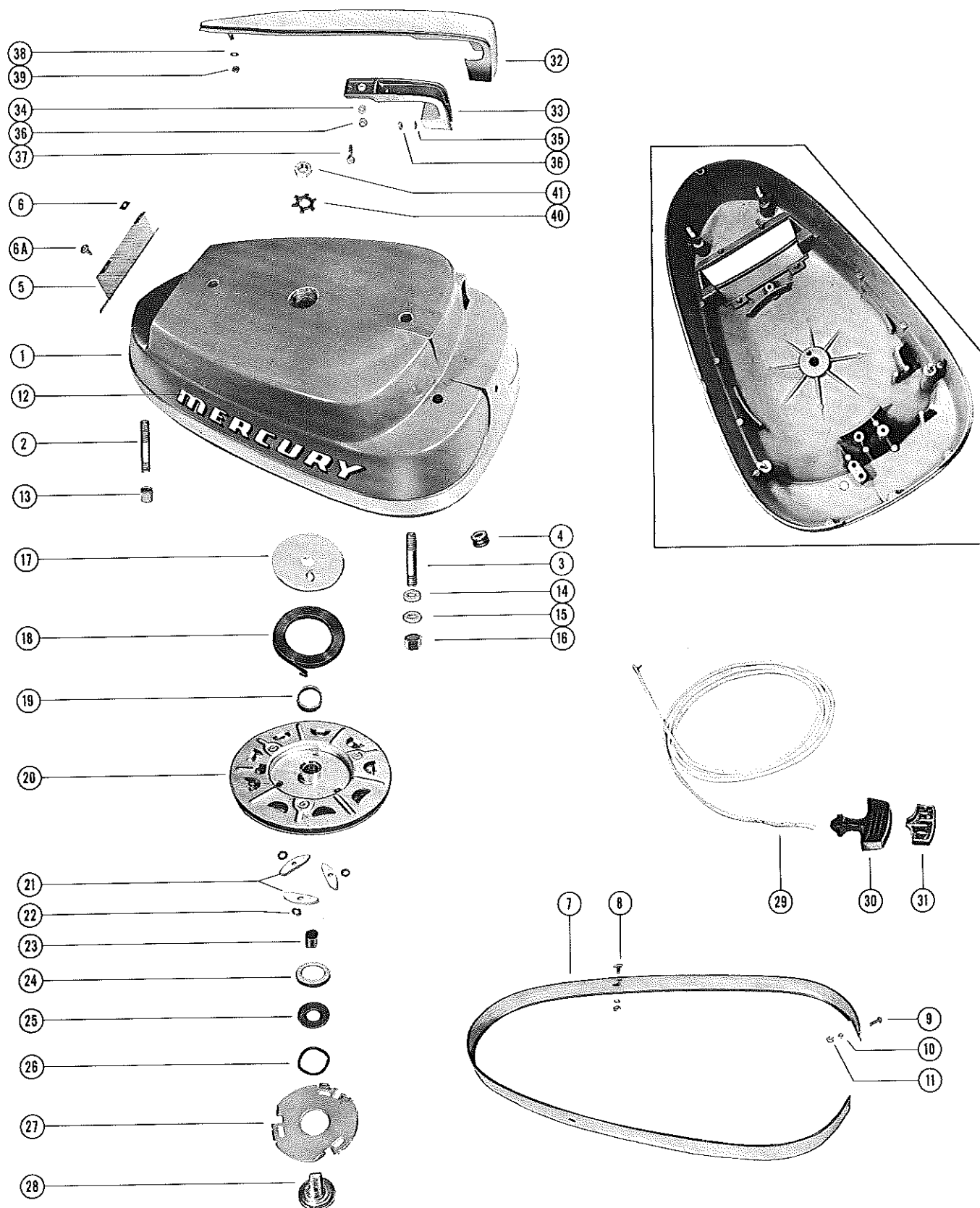
TOP COWL AND STARTER ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 75A	MARK 78A
177-1657A2	1	Top Cowl Assembly (without trim moulding)	1	1
16-20500	2	Stud, rear - top cowl to cover	2	2
16-20353	3	Stud, front - top cowl to crankcase	2	2
25-20116	4	Grommet, choke knob	1	1
28967	5	Screen, vent - top cowl	1	1
11-28968	6	Nut, speed - vent screen to top cowl	4	4
10-29221	6A	Screw, vent screen to top cowl	4	4
177-1595A2	1	Top Cowl Assembly (with trim moulding)	-	1
16-20500	2	Stud, rear - top cowl to cover	-	2
16-20353	3	Stud, front - top cowl to crankcase	-	2
25-20116	4	Grommet, choke knob	-	1
28967	5	Screen, vent - top cowl	-	1
11-28968	6	Nut, speed - vent screen to top cowl	-	4
10-29221	6A	Screw, vent screen to top cowl	-	4
29228A1	7	Trim Moulding Assembly	-	1
10-29226	8	Screw, decorative - trim moulding to top cowl	-	2
10-29227	9	Screw, brass - trim moulding to top cowl	-	2
13-26995	10	Lockwasher, trim moulding to top cowl screw	-	4
11-26419	11	Nut, trim moulding to top cowl screw	-	4
37-28988	12	Decal Set (colored engines)	1	1
37-28989	12	Decal Set (white engines)	1	1
23-20326	13	Spacer, top cowl stud	2	2
12-20028	14	Washer, top cowl stud (1/16")	4	4
12-20346	15	Washer, top cowl stud (3/4" OD)	4	4
12-20583	--	Washer, top cowl stud (1/32")	AR	AR
11-20361	16	Nut, top cowl stud	4	4
20155	17	Retainer, starter spring	1	1
24-29340A1	18	Spring, starter rewind	1	1
23-20159	19	Bushing, spring guide	1	1
50-28895	20	Sheave Assembly	1	1
20162	21	Pawl, starter	3	3
13-29402	22	Washer, wave - starter pawl	3	3
23-20158	23	Spacer, sheave shaft	1	1
26179	24	Retainer, wave washer	1	1
12-26180	25	Washer, wave washer retainer	1	1
13-20160	26	Washer, wave - retainer tension	1	1
20164	27	Plate, retainer starter pawl	1	1
20157	28	Shaft, sheave	1	1
50-22791A1	29	Starter Cable Assembly	1	1
28747	30	Handle, starter cable	1	1
28748	31	Retainer, starter cable and handle	1	1
29274A1	--	Handle Assembly, top cowl (see note #2 below)	1	1
29274	32	Handle, chrome - top cowl	1	1
29276	33	Handle, inside - top cowl	1	1
12-29245	34	Washer, chrome handle stud	1	1
12-20346	35	Washer, chrome handle stud	1	1
11-21825	36	Nut, chrome handle stud	2	2
29413	--	Bumper, top cowl handle	1	1
10-29199	37	Screw, handle to top cowl	1	1
12-29245	38	Washer, chrome handle stud	1	1
11-21825	39	Nut, chrome handle stud	1	1
14-20165	40	Tab Washer, sheave shaft nut	1	1
11-20166	41	Nut, sheave shaft (left hand thread)	1	1

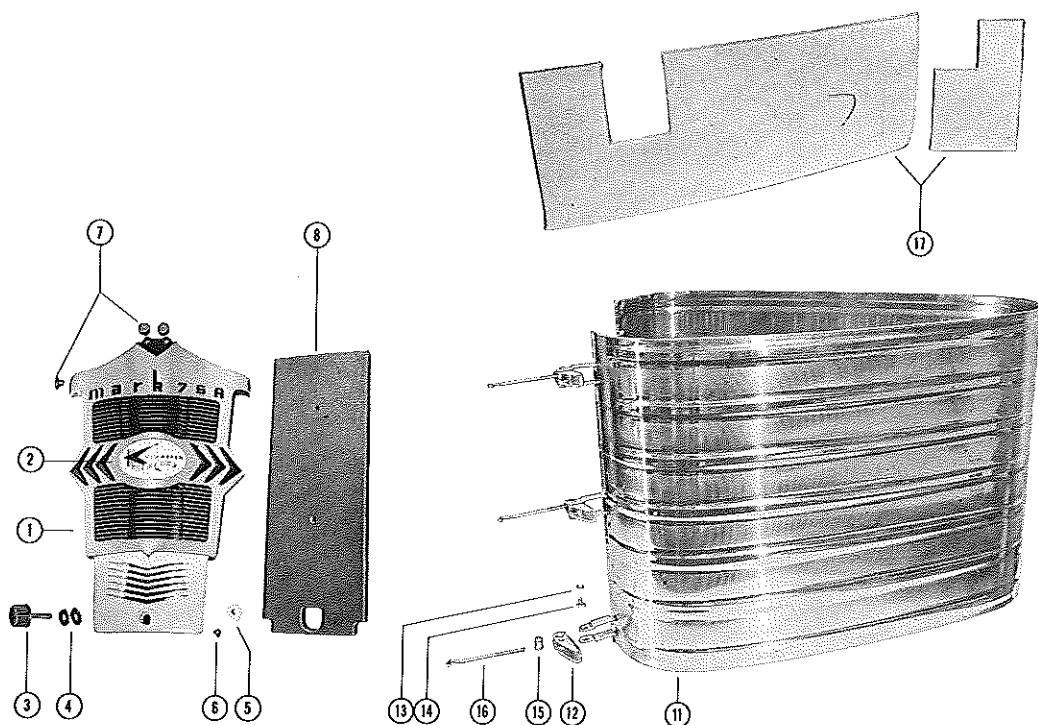
NOTE #1: On later engines the speed nut bosses used to fasten vent screen to top cowl have been removed. In their place, self-tapping screws are now used. Order and replace parts accordingly.

NOTE #2: 28986 Handle, used on early engines, is no longer available. For replacement - - order 29274A1 Handle Assembly. However, 10-29199 Screw (2), 10-22421 Screw (1) and 11-20361 Nut (1) used in conjunction with the 28986 Handle are still available.

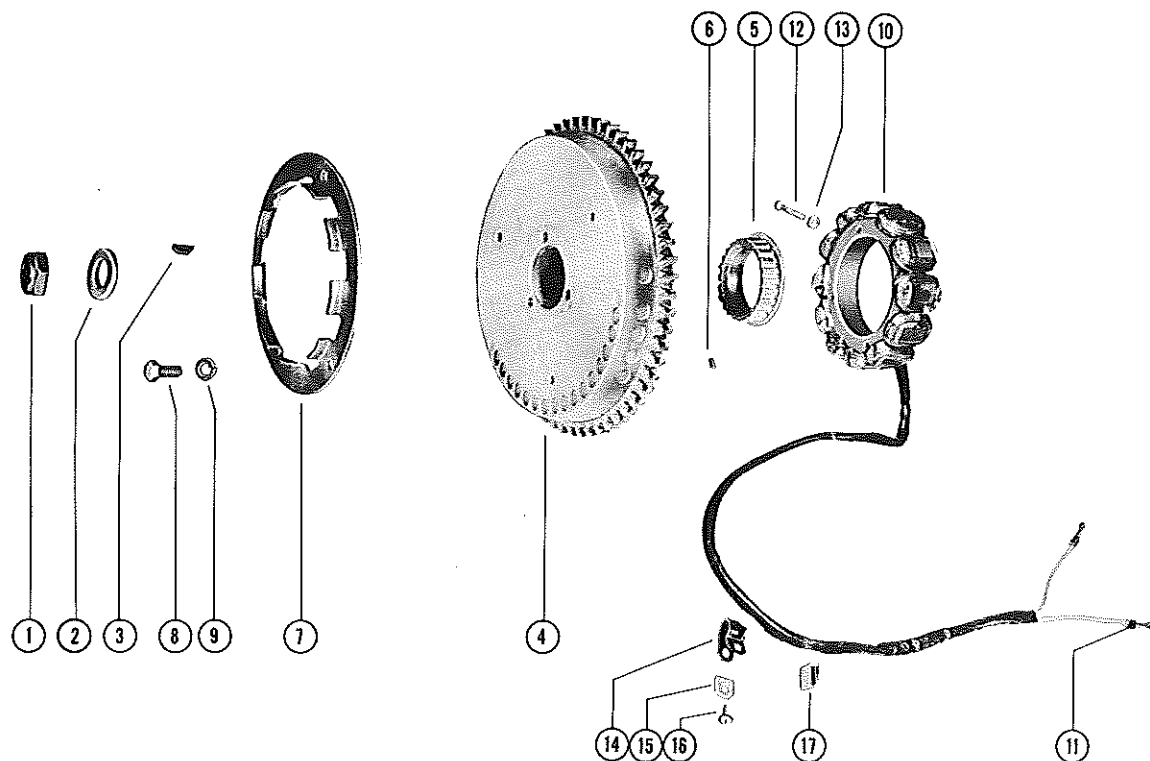
TOP COWL AND STARTER ASSEMBLY



COWLING AND FRONT COVER



FLYWHEEL ASSEMBLY AND STATOR



COWLING AND FRONT COVER

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
162-1419A1	1	Cowl Front Cover Assembly <i>(not as shown)</i>	1	-	-
179-1616A1	1	Cowl Front Cover Assembly	-	1	-
179-1602A1	1	Cowl Front Cover Assembly <i>(not as shown)</i>	-	-	1
26183A	2	Emblem, front cover <i>(see note #1 below)</i>	1	1	1
10-25619	3	Screw, cover fastening	1	1	1
12-26162	4	Washer, cover fastening screw (rubber)	1	1	1
12-27897	5	Washer, cover fastening screw (nylon)	1	1	1
20721	6	Bumper, rubber - cowl front cover (small)	2	-	-
26901	7	Bumper, rubber - cowl front cover (large)	2	-	-
29345	7	Bumper, rubber - cowl front cover	-	2	2
29344	8	Blanket, sound absorbing - tapered <i>(see note #2 below)</i>	-	1	1
161-1224A3	11	Wrap Around Cowl Assembly	1	1	1
21060	12	Handle, cowl latch	3	3	3
53-21058	13	"E" Ring, cowl latch hinge pin	6	6	6
17-21057	14	Pin, hinge - cowl latch handle	6	6	6
25690	15	Swivel, cowl latch	3	3	3
25691	16	Hook, cowl latch fastening	3	3	3
26391	17	Blanket, sound absorbing - wrap around cowl	1	1	1
92-25234	--	Glue, adhesive - blanket fastening	1	1	1

NOTE #1: Emblems for replacement may be ordered in two (2) different color combinations as listed below. Be sure and specify color combination required by adding A1 or A2 suffix to emblem part number 26183:

26183A1	Emblem (black background with red and aluminum lettering)
26183A2	Emblem (aluminum background with red and gold lettering)
92-27109	Adhesive Compound (3½ ounce kit) emblem fastening

NOTE #2: 29001 Blanket was used on early Mark 75A with 162-1539A1 Cowl Front Cover Assembly and early Mark 78A with 162-1537A1 Cowl Front Cover Assembly. 12-29000 Washer (4) and 11-28968 Nut (2) must be used in conjunction with 29001 Blanket.

FLYWHEEL ASSEMBLY AND STATOR

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
11-22339	1	Nut, flywheel	1	1	1
12-26617	2	Washer, flywheel nut	1	1	1
28-20094	3	Key, flywheel drive	1	1	1
212-1424A2	4	Flywheel Assembly <i>(Use thru Serial #1113105 on Mark 75A)</i>	1	1	-
212-1424A4	4	Flywheel Assembly <i>(Started with Serial #1113106 on Mark 75A)</i>	-	1	1
22823	5	Pulley, flywheel	1	1	1
17-26618	6	Dowel Pin, pulley to flywheel	1	1	1
50-25263	7	Ratchet, flywheel	1	1	1
10-26960	8	Screw, ratchet to flywheel	3	-	-
10-29238	8	Screw, ratchet to flywheel	-	3	3
13-26992	9	Lockwasher, ratchet to flywheel screw	3	-	-
398-1442	10	Stator, alternator	1	1	1
22647	11	Disconnect, knife splice - lead wires	2	2	2
10-29283	12	Screw, stator to upper end cap	4	4	4
13-26996	13	Lockwasher, stator to end cap screw <i>(use with 10-23003 screw)</i>	4	-	-
54-24836	14	Clip, stator lead to exhaust cover	2	2	2
22789	15	"D" Washer, clip fastening screw	2	2	2
10-30009	16	Screw, stator lead clip fastening	2	2	2
54-22783	17	"S" Clip, stator lead to bottom cowl	3	3	3

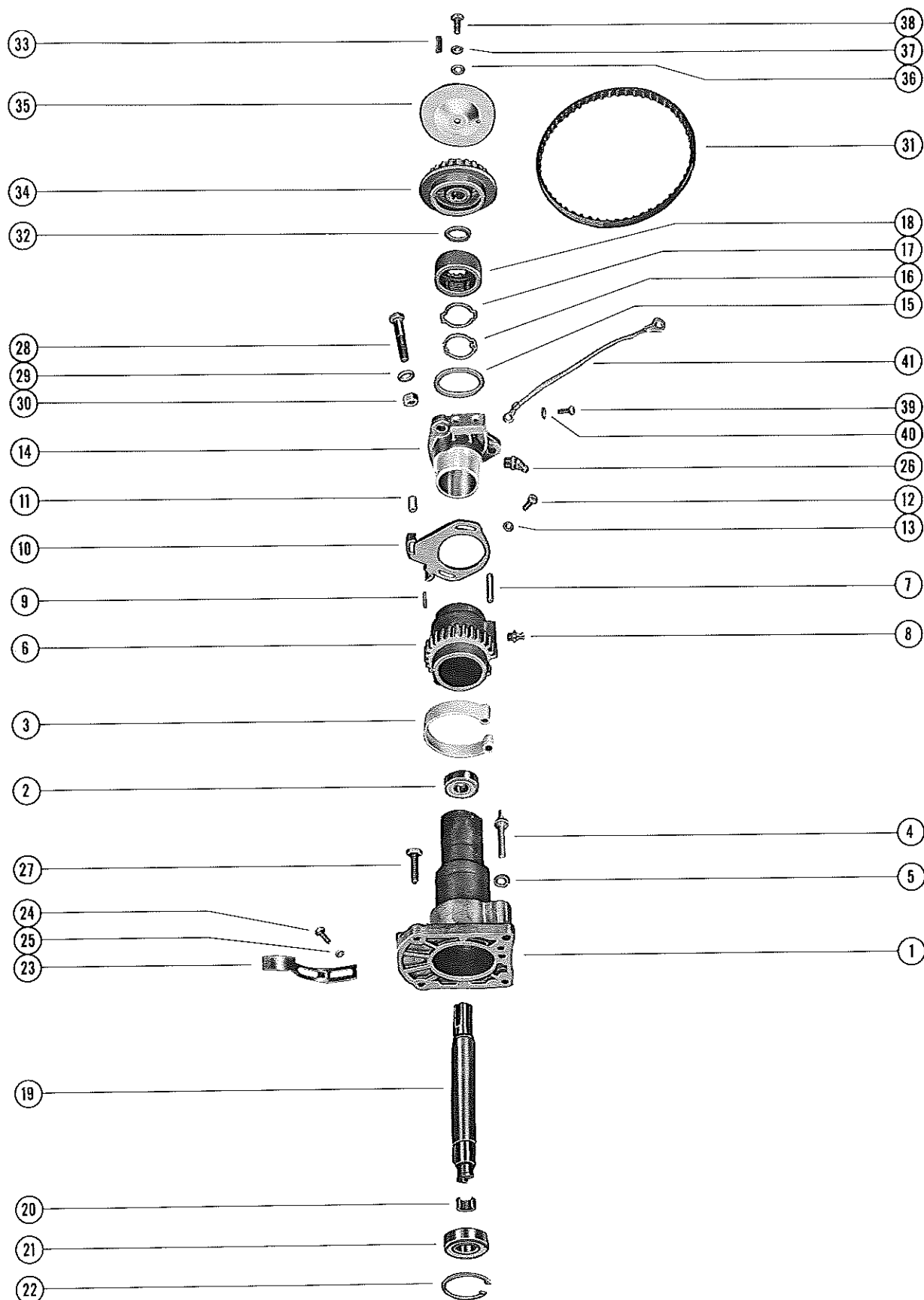
DISTRIBUTOR ADAPTOR AND PILOT ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK #78	MARK *78	MARK 75A	MARK 78A
27717A1	1	Pilot Assembly	1	-	-	-
28512A1	1	Pilot Assembly	-	1	-	1
28918A1	1	Pilot Assembly	-	-	1	-
30-20066	2	Bearing, ball - distributor pilot	1	1	1	1
24-26620	3	Spring, horseshoe	1	-	-	-
24-27944	3	Spring, horseshoe	-	1	-	-
24-29275	3	Spring, horseshoe	-	-	1	1
17-27719	4	Pin, spring terminal	1	-	-	-
17-27962	4	Pin, spring terminal	-	1	1	1
12-29245	5	Washer, spring terminal pin	-	1	1	1
43-26615A2	6	Sector Gear and Pin Assembly	1	-	-	-
43-28509A1	6	Sector Gear and Pin Assembly	-	1	-	1
43-29179A1	6	Sector Gear and Pin Assembly	-	-	1	-
17-26616	7	Pin, spring anchor	1	-	-	-
17-27961	7	Pin, spring anchor	-	1	1	1
22-23612	8	Fitting, grease - sector gear	-	1	1	1
17-23928	9	Pin, roll - sector gear locating	1	-	-	-
17-23757	9	Pin, roll - sector gear locating	-	1	-	-
12-20028	-	Washer, spring retainer pin	-	1	-	-
27715A1	10	Throttle Actuator Assembly	1	-	-	-
28510A1	10	Throttle Actuator Assembly	-	1	-	1
29102A1	10	Throttle Actuator Assembly	-	-	1	-
23-26602	11	Bushing, nylon - throttle actuator	2	2	2	2
10-20100	12	Screw, throttle actuator to sector gear	2	-	-	-
10-20665	12	Screw, throttle actuator to sector gear	-	2	2	2
12-20128	13	Washer, throttle actuator fastening screw	2	2	2	2
28126	14	Adaptor, distributor	1	-	-	-
28511	14	Adaptor, distributor	-	1	1	1
12-27939	15	Washer, thrust - distributor pilot	1	1	1	1
14-27960	16	Tab Washer, cap locking	1	1	1	1
13-27959	17	Washer, wave - tab washer tension	1	1	1	1
27955	18	Cap, adaptor and pilot fastening	1	1	1	1
45-27716	19	Drive Shaft, distributor	1	-	-	-
45-28473A1	19	Drive Shaft Assembly, distributor	-	1	-	1
45-28917A1	19	Drive Shaft Assembly, distributor	-	-	1	-
24-28469	20	Spring, distributor drive shaft	-	1	1	1
30-26379	21	Bearing, ball - drive shaft	1	1	1	1
53-26406	22	Ring, snap - ball bearing retaining	1	1	1	1
24-26631	23	Spring, latch - adaptor pilot	2	-	-	-
10-20665	24	Screw, latch spring fastening	2	-	-	-
12-20128	25	Washer, latch spring screw	2	-	-	-
22-25094	26	Fitting, grease - adaptor	1	1	1	1
10-29281	27	Screw, adaptor and pilot to distributor	4	4	-	4
10-29282	27	Screw, adaptor and pilot to distributor	-	-	4	-
10-22040	28	Screw, adaptor and pilot to crankcase flange	3	3	3	3
12-20084	29	Washer, adaptor and pilot fastening screw	3	3	3	3
11-20083	30	Nut, adaptor and pilot fastening screw	3	3	3	3
20140	31	Belt, timing	1	1	1	1
23-27957	32	Spacer, driven pulley	1	1	1	1
28-28657	33	Key, magneto driving	1	1	1	1
24807	34	Pulley, driven (<i>superseded by 29783A2</i>)	1	1	1	1
20136	35	Flange, driven pulley	1	1	1	1
12-20138	36	Washer, pulley clamping screw	1	1	1	1
13-26996	37	Lockwasher, pulley clamping screw	1	1	1	1
10-20139	38	Screw, pulley clamping	1	1	1	1
10-20031	39	Screw, guide rack to distributor adaptor	2	2	2	2
12-20533	40	Washer, guide rack fastening screw	2	2	2	2
30109	41	Ground Strap Assembly, adaptor to crankcase	2	2	1	1

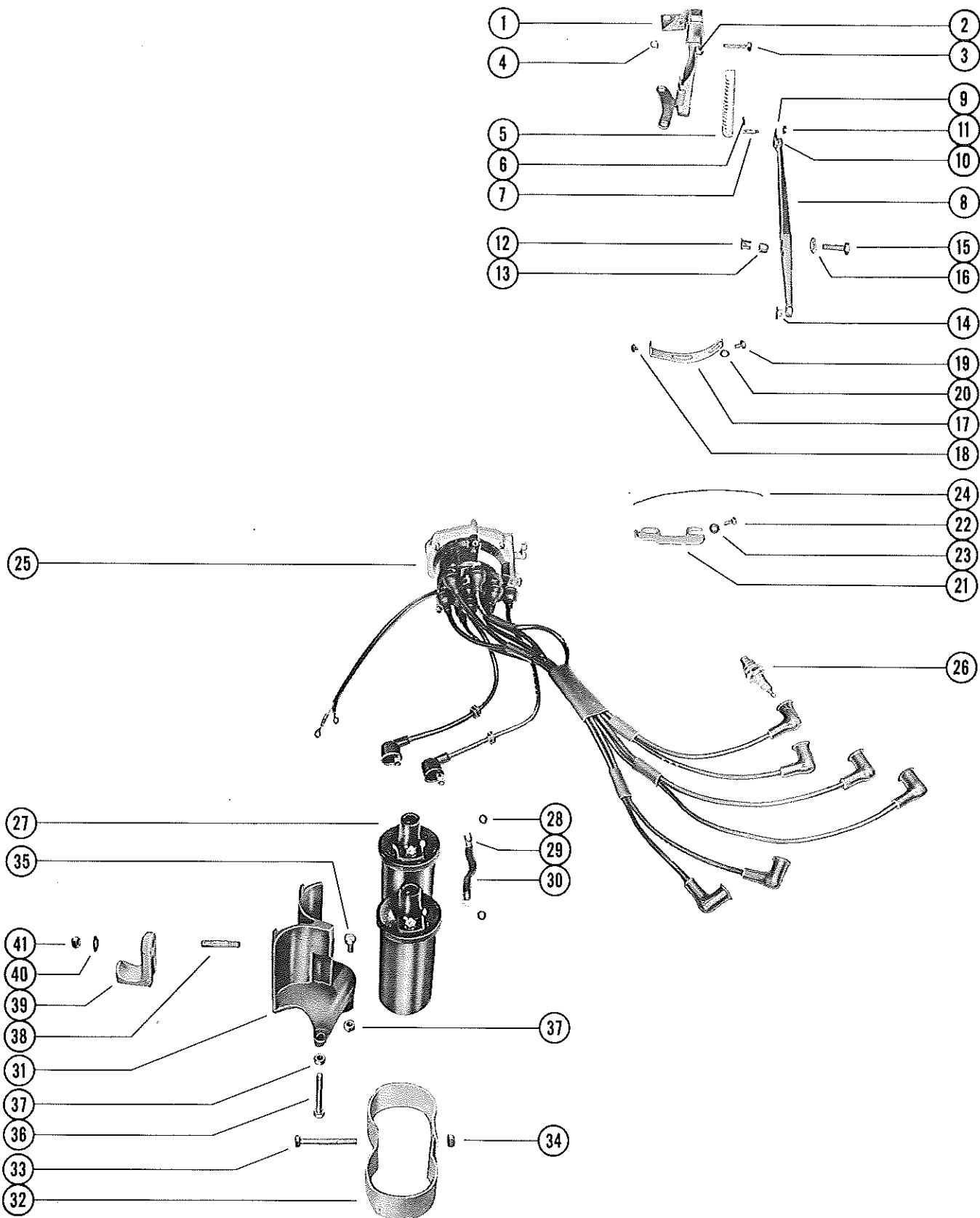
Use thru Serial #1166568 on Mark 78 engines.

* Started with Serial #1166569 on Mark 78 engines.

DISTRIBUTOR ADAPTOR AND PILOT ASSEMBLY



DISTRIBUTOR VERTICAL LINKAGE AND IGNITION COILS



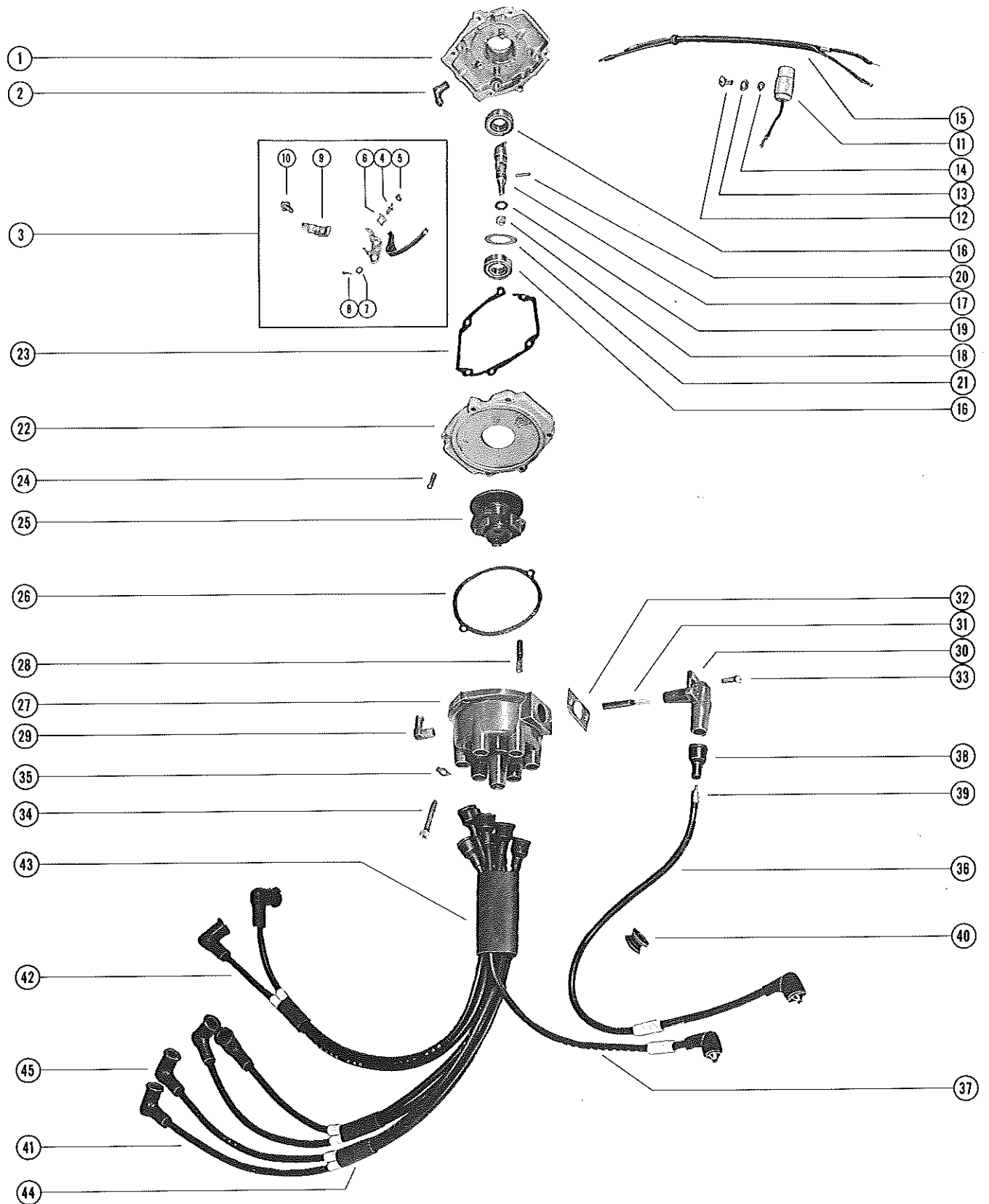
DISTRIBUTOR VERTICAL LINKAGE AND IGNITION COILS

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
26610A2	1	Guide Rack Assembly	1	-	-
26610A4	1	Guide Rack Assembly	-	1	1
11-26898	2	Nut, clinch - guide rack	1	-	-
10-22960	3	Screw, guide rack - adjusting	1	-	-
26852	4	Cap, nylon - adjusting screw	1	-	-
26827A1	5	Rack and Pin Assembly, guide rack	1	1	1
17-23757	6	Roll Pin, link pin to nylon rack	1	1	1
17-26816	7	Pin, link - nylon rack	1	1	1
26598	8	Lever, vertical	1	1	1
26593	9	Link, vertical lever to nylon rack	1	1	1
17-26637	10	Rivet, link to vertical lever	1	1	1
11-20110	11	Nut, link pin to vertical lever link	1	1	1
23-26599	12	Bushing, nylon - vertical lever	1	1	1
23-26603	13	Bushing, steel - vertical lever	1	1	1
23-26600	14	Bushing, nylon - vertical lever	2	2	2
10-26638	15	Screw, vertical lever to exhaust cover	1	1	1
12-21040	16	Washer, vertical lever fastening screw	1	1	1
26596A1	17	Distributor Stop Assembly	1	1	1
26597	18	Bumper, rubber - distributor stop	1	1	1
10-20031	19	Screw, distributor stop to pilot	2	2	2
12-20533	20	Washer, distributor stop fastening screw	2	2	2
26604	21	Lever, reverse throttle pick-up	1	1	1
10-29155	22	Screw, pick-up lever to distributor housing	2	2	2
12-20533	23	Washer, pick-up lever fastening screw	2	2	2
29156	24	Lockwire, pick-up lever fastening screw	-	1	1
393-1282A6	25	Distributor Assembly, Complete	1	-	-
393-1282A9	25	Distributor Assembly, Complete	-	1	1
33-20127	26	Spark Plug	6	6	6
26433	27	Coil, ignition	2	2	2
25-26543	28	"O" Ring, ignition coil	2	2	2
26454A1	29	Jumper Assembly, coil to coil	1	1	1
32-26627	30	Sleeve, coil jumper	1	1	1
26514	31	Bracket, coil fastening	1	1	1
26512	32	Band, coil bracket	1	1	1
10-26889	33	Screw, coil band to bracket	1	1	1
11-20184	34	Nut, coil band screw	1	1	1
10-21625	35	Screw, coil bracket to bottom cowl (3/4")	1	1	1
10-22421	36	Screw, coil bracket to bottom cowl (1 1/4")	1	1	1
11-20184	37	Nut, coil bracket screw	2	2	2
16-20077	38	Stud, coil bracket to support	1	1	1
26552	39	Support, external wiring harness	1	1	1
12-20084	40	Washer, coil bracket stud	1	1	1
11-25594	41	Nut, coil bracket stud	1	1	1

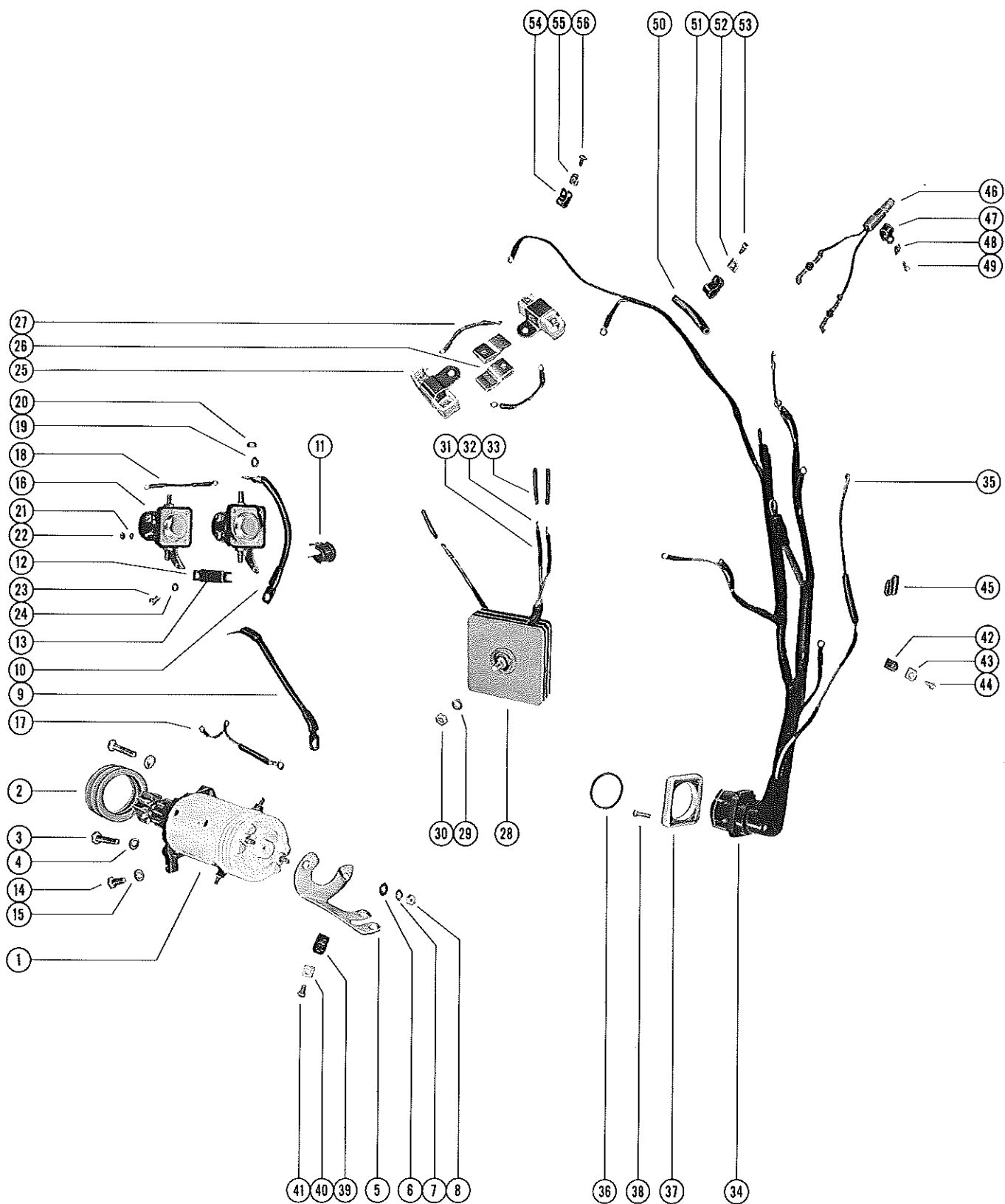
DISTRIBUTOR ASSEMBLY, COMPLETE

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
393-1282A6	-	Distributor Assembly, Complete	1	-	-
393-1282A9	-	Distributor Assembly, Complete	-	1	1
393-1282	1	Housing, primary	1	1	1
22-25885A1	2	Elbow Assembly, vent hose - primary housing	1	1	1
393-1504A5	3	Breaker Assembly, Complete	2	2	2
10-26008	-	Screw, primary lead fastening (<i>early models</i>)	2	2	2
16-29230	4	Stud, primary lead and tension spring fastening (<i>later models</i>)	-	2	2
11-29236	5	Nut, primary lead fastening	-	2	2
394-1163	6	Grommet, plastic - breaker assembly	2	-	-
393-1515	6	Grommet, plastic - breaker assembly (<i>use with 10-26008 screw</i>)	2	2	2
393-1586	6	Grommet, plastic - breaker assembly (<i>use with 16-29230 stud</i>)	-	2	2
12-26439	7	Washer, breaker pivot pin	2	2	2
18-26953	8	Cotter Pin, breaker to pivot pin	2	2	2
393-1287A2	9	Cam Wick and Holder Assembly	2	2	2
10-28739	10	Screw, breaker holder to housing	2	-	-
10-20597	10	Screw, breaker holder to housing	-	2	2
393-1283	11	Condenser	2	2	2
10-23977	12	Screw, condenser to housing	2	2	2
13-26995	13	Lockwasher, condenser to housing screw	2	2	2
12-26832	14	Washer, condenser to housing screw	Opt.	-	-
393-1291	15	Wire, primary	1	-	-
393-1532	15	Wire, primary	-	1	1
30-26379	16	Bearing, ball - cam shaft	2	2	2
393-1541A2	17	Shaft Assembly, distributor cam	1	1	1
23-28933	18	Bushing, nylon - cam shaft to rotor	1	1	1
25-26543	19	"O" Ring, cam shaft	1	1	1
17-25319	20	Pin, roll - cam shaft	1	1	1
13-26917	21	Washer, wave - ball bearing tension	2	2	2
393-1278	22	Adaptor, housing to distributor cap	1	1	1
27-26412	23	Gasket, housing to adaptor	1	1	1
10-28257	24	Screw, adaptor to housing	4	-	-
10-29180	24	Screw, adaptor to housing	-	4	4
393-1280	25	Rotor, distributor	1	1	1
27-26446	26	Gasket, distributor cap to adaptor	1	1	1
393-1573A1	27	Distributor Cap Assembly	1	1	1
393-1293A1	28	Brush and Spring Assembly	1	1	1
22-25885	29	Elbow, vent hose - distributor cap	1	1	1
393-1277	30	Side Inlet Assembly	1	1	1
393-1292A1	31	Brush and Spring Assembly	1	1	1
27-26447	32	Gasket, side inlet to distributor cap	1	1	1
10-28258	33	Screw, side inlet to distributor cap	2	-	-
10-29167	33	Screw, side inlet to distributor cap	-	2	2
10-28256	34	Screw, distributor cap to adaptor	2	-	-
10-29158	34	Screw, distributor cap to adaptor	-	2	2
14-29157	35	Tab Washer, distributor cap to adaptor screw	-	2	2
393-1621A1	36	High Tension Cable Assembly (Coil #2)	1	1	1
393-1622A1	37	High Tension Cable Assembly (Coil #1)	1	1	1
393-1275	38	Sleeve, terminal end cover	2	2	2
20121	39	Connector, high tension cable (cap end)	2	2	2
25-26547	40	Grommet, high tension cable	2	2	2
26453A1	41	Spark Plug Lead Assembly (#3, #4 and #5)	3	3	3
26460A1	42	Spark Plug Lead Assembly (#1, #2 and #6)	3	3	3
20121	39	Connector, spark plug lead	6	6	6
393-1275	38	Sleeve, terminal end cover	6	6	6
32-26624	43	Sleeve, spark plug lead	1	1	1
32-26527	44	Sleeve, spark plug lead	5	5	5
20119	45	Protector, spark plug	6	6	6

DISTRIBUTOR ASSEMBLY, COMPLETE



STARTER MOTOR, STARTER SOLENOID, RECTIFIER AND WIRING HARNESS



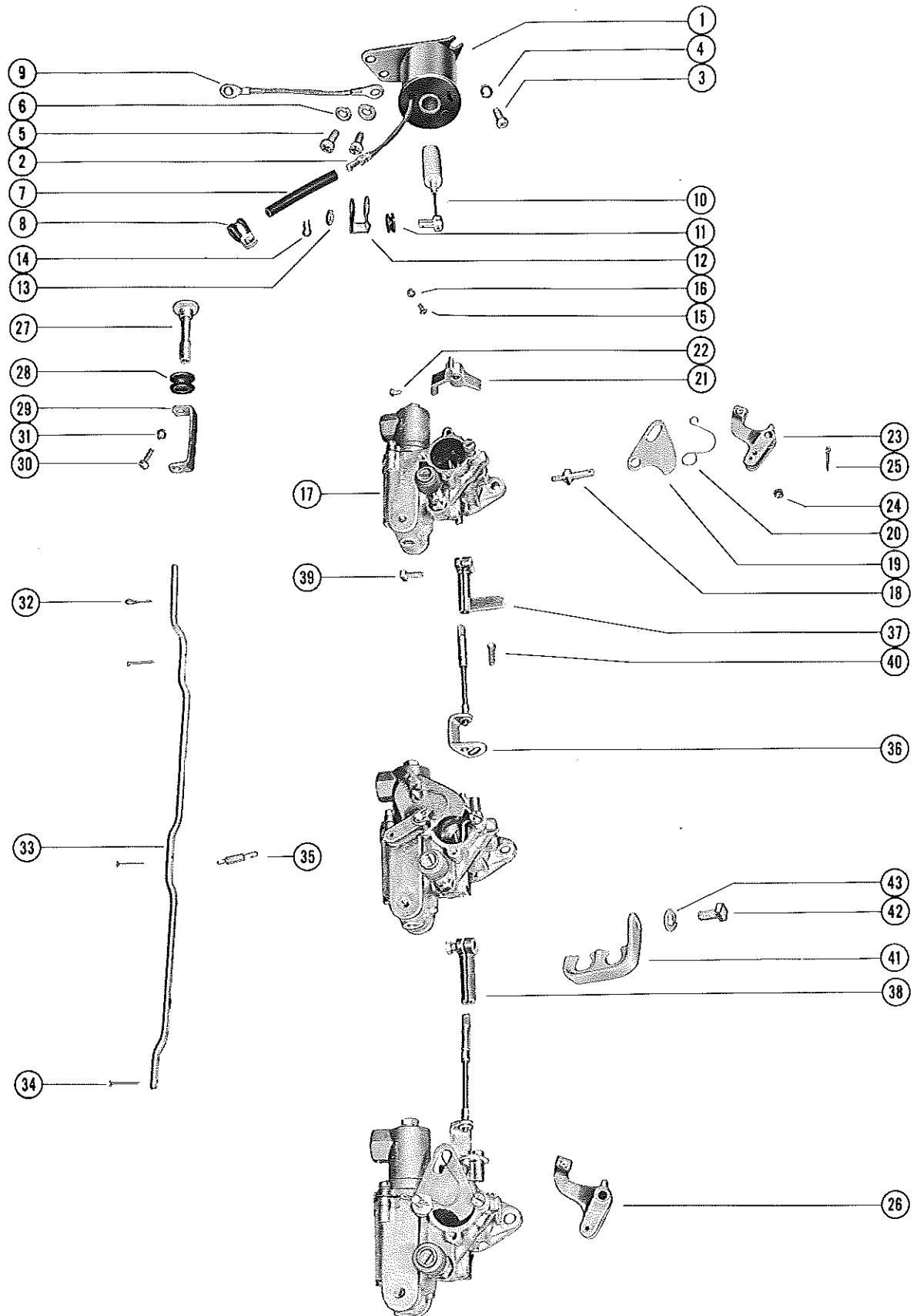
STARTER MOTOR, STARTER SOLENOID, RECTIFIER AND WIRING HARNESS

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
50-28317	1	Starter Motor Assembly (Use thru Serial #1113105 on Mark 75A)	1	1	-
50-29037	1	Starter Motor Assembly (Started with Serial #1113106 on Mark 75A)	-	1	1
15-26496	2	Shim, starter motor to crankcase flange	AR	AR	AR
10-22698	3	Screw, starter motor to crankcase	2	2	2
13-26993	4	Lockwasher, starter motor to crankcase screw	2	2	2
27026	5	Bracket, supporting - starter motor	1	1	1
12-24664	6	Washer, bracket to starter motor thru bolt	2	2	2
13-26992	7	Lockwasher, bracket to starter motor thru bolt	2	2	2
11-20890	8	Nut, bracket fastening to thru bolt	2	2	2
26511	9	Cable, wire - starter motor to upper starter solenoid	1	-	1
26510	9	Cable, wire - starter motor to upper starter solenoid	-	1	-
25596	10	Cable, wire - starter motor to lower starter solenoid	1	1	1
54-20534	11	Clamp, lower cable - starter motor to starter solenoid	1	1	1
26478A1	12	Jumper Assembly, solenoid to solenoid	1	1	1
32-26622	13	Sleeve, jumper	1	1	1
10-28635	14	Screw, harness ground lead to starter motor	1	-	1
10-29197	14	Screw, harness ground lead to starter motor	-	1	-
13-26992	15	Lockwasher, harness ground lead screw	1	-	1
28062	16	Solenoid, starter	1	-	-
28937	16	Solenoid, starter	-	1	1
28015A2	17	Ground Strap Assembly, solenoid to starter motor	1	-	-
28922	18	Lead, jumper - solenoid to solenoid	-	1	1
13-26993	19	Lockwasher, solenoid terminal (5/16)	4	4	4
11-20083	20	Nut, solenoid terminal (5/16)	4	4	4
13-26996	21	Lockwasher, solenoid terminal (#10)	4	4	4
11-20645	22	Nut, solenoid terminal (#10)	4	4	4
10-26960	23	Screw, solenoid to starter motor	4	-	-
10-29238	23	Screw, solenoid to starter motor	-	4	4
13-26992	24	Lockwasher, solenoid to starter motor screw	4	4	4
393-1482	25	Resistor	2	-	-
393-1572	25	Resistor	-	2	2
28966	26	Snubber, resistor to transfer port cover screw	-	2	2
29112	27	Jumper, resistor to resistor	-	2	2
27723A1	28	Rectifier Assembly (superseded by 29691A1)	1	1	1
13-26993	29	Lockwasher, rectifier mounting screw	1	1	1
11-21929	30	Nut, rectifier mounting screw	1	1	1
22691	31	Insulator, rectifier lead	2	2	2
22647	32	Disconnect, knife splice - rectifier lead	3	3	3
32-26528	33	Sleeve, rectifier lead	3	3	3
26481A1	34	Wiring Harness, internal	1	-	-
28920	34	Wiring Harness, internal (not as shown)	-	1	1
22647	35	Disconnect, knife splice - harness lead	2	4	4
24-28975	36	Spring, garter - internal wiring harness	-	1	1
26079	37	Plate, wiring harness to bottom cowl	1	1	1
10-26128	38	Screw, harness plate to bottom cowl	4	4	4
54-20830	39	Clamp, wiring harness to starter bracket	1	-	-
54-22627	39	Clamp, wiring harness to starter bracket	-	1	1
22789	40	"D" Washer, harness clamp screw	-	1	1
10-26548	41	Screw, wiring harness clamp to starter bracket	1	1	1
54-24836	42	Clip, harness rectifier lead to bracket	1	-	-
22789	43	"D" Washer, harness clip screw	1	-	-
10-30009	44	Screw, harness clip to bracket	1	-	-
54-22783	45	"S" Clip, harness lead to bottom cowl	2	2	2
28265	46	Switch, mercury	1	-	-
28921	46	Switch, mercury	-	-	1
54-22875	47	Clamp, mercury switch fastening	1	-	1
22789	48	"D" Washer, mercury switch clamp fastening screw	1	-	1
10-30009	49	Screw, clamp to exhaust cover	1	-	1
26934	50	Insulator, stator and harness lead	1	-	-
32-26528	50	Sleeve, harness - distributor lead	-	2	-
32-28930	50	Sleeve, harness - mercury switch and distributor lead	-	-	2
54-26550	51	Clip, distributor primary lead to crankcase	1	-	-
54-24836	51	Clip, distributor primary lead to crankcase	-	1	1
22789	52	"D" Washer, distributor primary ground lead clip	1	1	1
10-30009	53	Screw, distributor primary ground lead clip	1	1	1
54-22740	54	Clip, harness ground lead to crankcase flange	1	-	-
54-24836	54	Clip, harness ground lead to crankcase flange	-	1	1
22789	55	"D" Washer, harness ground lead clip	1	1	1
10-30009	56	Screw, harness ground lead clip	1	1	1

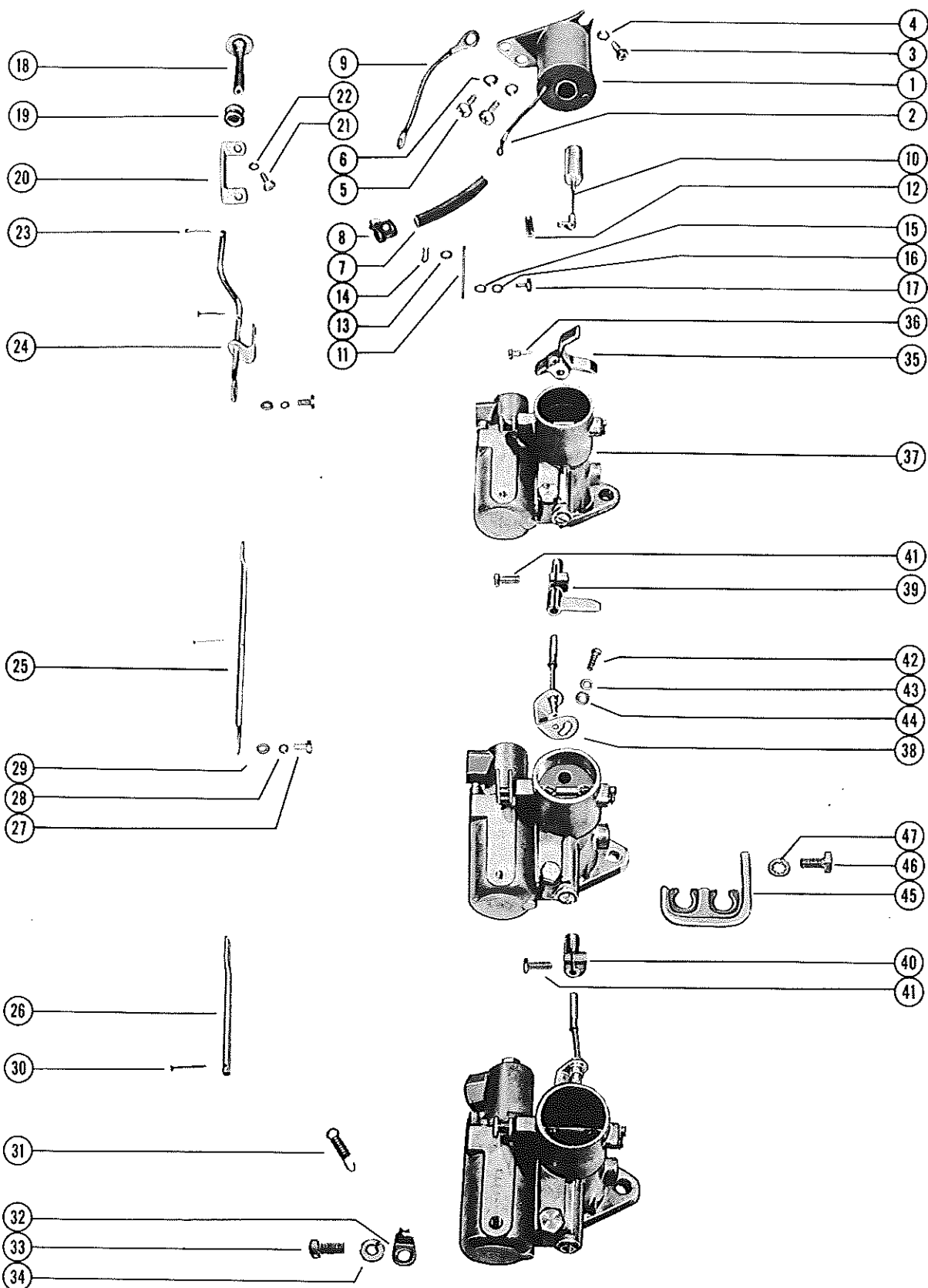
CARBURETOR LINKAGE AND CHOKE SOLENOID

PART NO.	REF. NO.	DESCRIPTION	MARK 75A
27030	1	Choke Solenoid, top cowl	1
22647	2	Disconnect, knife splice - choke solenoid	1
10-24773	3	Screw, choke solenoid to top cowl	1
13-26991	4	Lockwasher, choke solenoid screw	1
10-20540	5	Screw, choke solenoid to top cowl	2
13-26992	6	Lockwasher, choke solenoid screw	2
32-26693	7	Sleeve, choke solenoid lead wire	1
54-26643	8	Clip, choke solenoid wire	1
26716A1	9	Ground Strap Assembly, choke solenoid to adaptor	1
27031A2	-	Plunger Assembly, Complete	1
27031A1	10	Plunger and Link Assembly	1
25-26633	11	Grommet, adaptor plate	1
27126	12	Plate, adaptor	1
12-26014	13	Washer, adaptor	1
18-26953	14	Cotter Pin, adaptor plate to plunger link	1
10-21281	15	Screw, adaptor plate to upper choke lever	1
13-26994	16	Lockwasher, adaptor plate screw	1
1330-1263	17	Carburetor Assembly, Complete <i>(Use thru Serial #1113105)</i>	3
1330-1607	17	Carburetor Assembly, Complete <i>(Started with Serial #1113106)</i>	3
10-20176	18	Screw, choke lever pivot pin	3
20173	19	Shutter, choke	3
24-26067	20	Spring, choke shutter	3
29193	21	Cluster, throttle lever (upper carburetor)	1
10-20847	22	Screw, set - cluster to throttle lever	1
26645A1	23	Choke Lever Assembly (upper carburetor)	1
23-26888	24	Bushing, nylon - upper choke lever	2
18-26953	25	Cotter Pin, choke lever fastening (upper carburetor)	1
25881A1	26	Choke Lever Assembly (center and lower carburetor)	2
22463	27	Knob, choke rod	1
25-20116	28	Grommet, choke knob	1
22462	29	"U" Link, choke knob to choke rod	1
10-20100	30	Screw, "U" link to knob	1
13-26996	31	Lockwasher, "U" link screw	1
18-20180	32	Cotter Pin, choke lever and rod fastening	3
28973	33	Rod, choke	1
17-25391	34	Rivet, choke lever to choke rod	3
24-26068	35	Spring, choke rod positioning	1
20185A1	36	Bracket Assembly, throttle pickup	2
29171	37	Clamp, upper - bracket flexible shaft <i>(not as shown)</i>	1
27870	38	Clamp, lower - bracket flexible shaft	1
10-20100	39	Screw, upper and lower clamp fastening	2
10-29239	40	Screw, throttle bracket mounting	2
26977	41	Bracket, coil lead retainer	1
10-20031	42	Screw, bracket to center carburetor	1
13-21272	43	Lockwasher, bracket fastening screw	1

CARBURETOR LINKAGE AND CHOKE SOLENOID



CARBURETOR LINKAGE AND CHOKE SOLENOID



CARBURETOR LINKAGE AND CHOKE SOLENOID

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 78A
27030	1	Choke Solenoid, top cowl	1	1
22647	2	Disconnect, knife splice - choke solenoid	1	1
10-24773	3	Screw, choke solenoid to top cowl	1	1
13-26991	4	Lockwasher, choke solenoid screw	1	1
10-20540	5	Screw, choke solenoid to top cowl	2	2
13-26992	6	Lockwasher, choke solenoid screw	2	2
32-26693	7	Sleeve, choke solenoid lead wire	1	1
54-26643	8	Clip, choke solenoid wire	1	1
26716A1	9	Ground Strap Assembly, choke solenoid to adaptor	1	1
27031A1	10	Plunger and Link Assembly, choke solenoid	1	1
27710	11	Plate, adaptor - plunger to upper choke rod	1	1
25-26633	12	Grommet, adaptor plate	1	1
12-26014	13	Washer, plunger link	1	1
18-27769	14	Pin (hair), plate to plunger link	1	-
18-26953	14	Cotter Pin, plate to plunger link	-	1
12-26014	15	Washer, adaptor plate screw	1	1
13-26996	16	Lockwasher, adaptor plate screw	1	1
10-20055	17	Screw, adaptor plate to upper choke rod	1	1
22463	18	Knob, choke rod	1	1
25-20116	19	Grommet, choke rod	1	1
22462	20	"U" Link, choke knob to upper choke rod	1	1
10-20100	21	Screw, "U" link to choke knob	1	1
13-26996	22	Lockwasher, "U" link screw	1	1
18-20180	23	Cotter Pin, "U" link to upper choke rod	1	1
27982A1	24	Choke Rod and Bracket Assembly, upper	1	-
28974A1	24	Choke Rod and Bracket Assembly, upper	-	1
27983	25	Choke Rod, center	1	1
27918	26	Choke Rod, lower	1	1
10-28461	27	Screw, upper rod to center rod to lower rod	2	2
13-26994	28	Lockwasher, choke rod screw	2	2
12-27882	29	Washer, choke rod screw	2	2
17-25391	30	Rivet, choke rod to choke lever	3	3
24-28361	31	Spring, choke rod tension	1	-
24-28965	31	Spring, choke rod tension	-	1
27711	32	Retainer, choke rod spring to carburetor	1	1
10-28713	33	Screw, retainer to lower carburetor	1	1
13-26992	34	Lockwasher, retainer fastening screw	1	1
27977	35	Cluster, throttle lever (upper carburetor)	1	1
10-20847	36	Screw, cluster to throttle lever	1	1
1333-1387	37	Carburetor Assembly, Complete	3	3
28007A1	38	Throttle Pickup Bracket Assembly	2	2
27869	39	Clamp, upper - throttle pickup bracket	1	1
27870	40	Clamp, lower - throttle pickup bracket	1	1
10-20100	41	Screw, upper and lower clamp fastening	2	2
10-20191	42	Screw, throttle bracket mounting	2	-
10-29239	42	Screw, throttle bracket mounting	-	2
13-26995	43	Lockwasher, bracket mounting screw	3	-
12-20192	44	Washer, bracket mounting screw	3	-
26977	45	Bracket, coil lead retainer	1	1
10-20031	46	Screw, retainer bracket to center carburetor	1	1
13-21272	47	Lockwasher, bracket fastening screw	1	1

CARBURETOR ASSEMBLY

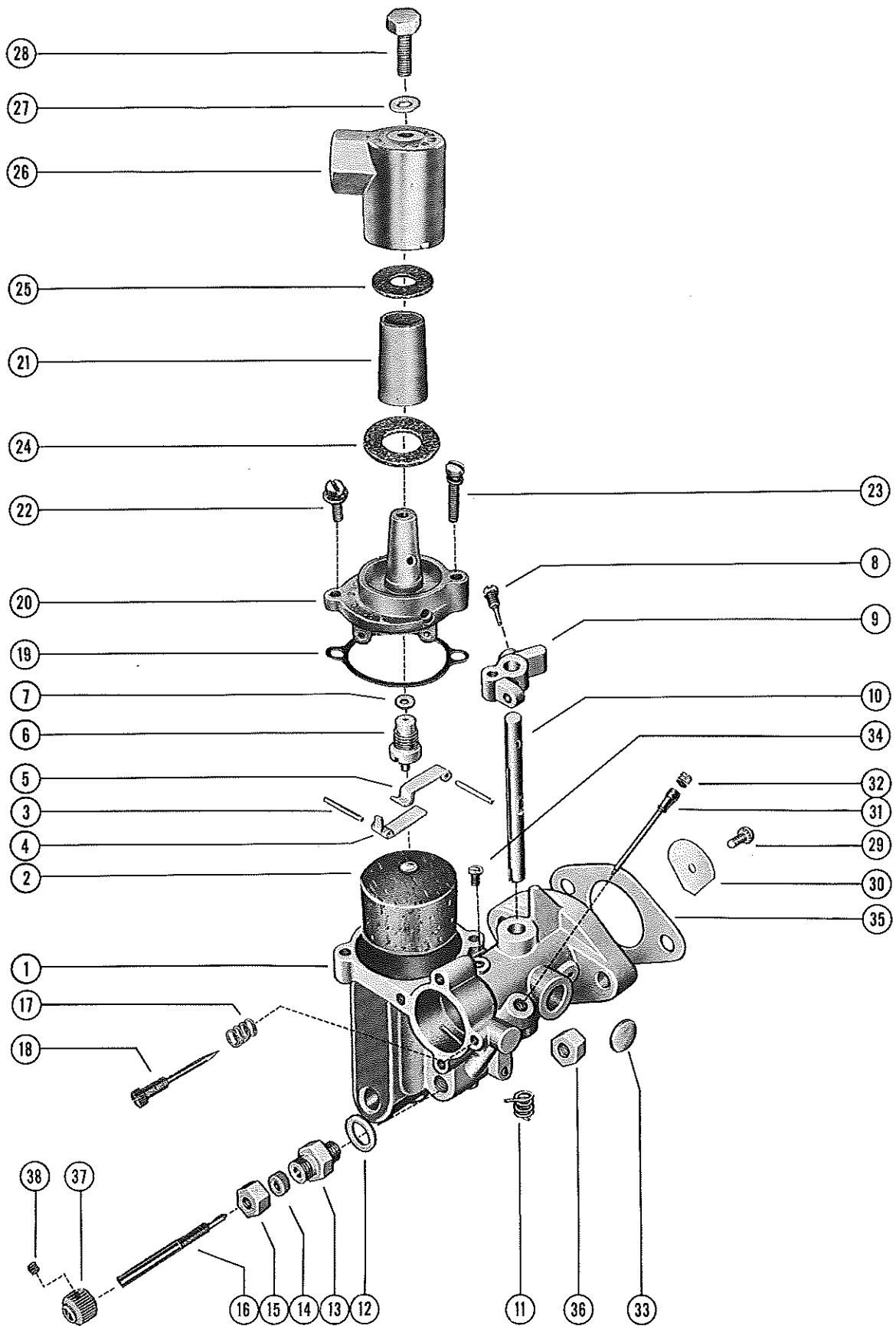
PART NO.	REF. NO.	DESCRIPTION	MARK 75A	
			AJ-53A	AJ-55A
1330-1263	1	Carburetor Assembly (Tillotson AJ-53A)	#3	-
1330-1607	1	Carburetor Assembly (Tillotson AJ-55A)	-	*3
1399-110A1	2	Float Assembly	3	3
17-20853	3	Pin, float lever pin	6	6
1399-102	4	Lever, float (lower)	3	3
1399-101	5	Lever, float (upper)	3	3
1399-1138	6	Inlet Needle, Seat and Gasket	3	3
27-25033	7	Gasket, inlet seat	3	3
10-20847	8	Screw, throttle stop lever	3	3
1399-97	9	Lever, throttle stop <i>(see note below)</i>	2	2
1399-933	10	Shaft, throttle	3	3
24-20869	11	Spring, throttle shaft return <i>(upper carburetor)</i>	1	1
24-26890	11	Spring, throttle shaft return <i>(center and lower carburetor)</i>	2	2
27-20848	12	Gasket, main adjustment screw gland	3	-
1399-94	13	Gland, main adjustment screw	3	-
1399-108	14	Packing, main adjustment screw	3	-
11-20849	15	Nut, main adjustment screw	3	-
1399-932	16	Screw, main adjustment	3	-
1399-1655	--	Jet, main fuel (.055) - standard	-	3
1399-1653	--	Jet, main fuel (.053)	-	3
1399-1651	--	Jet, main fuel (.051)	-	3
27-28409	--	Gasket, main fuel jet	-	3
24-27160	17	Spring, idle adjustment screw	3	3
1399-931	18	Screw, idle adjustment	3	3
1399-99	19	Gasket, float bowl cover	3	3
1399-1133	20	Cover, float bowl	3	3
1399-1136	21	Element, filter	3	3
10-20854	22	Screw, float bowl cover (short)	3	3
10-25850	23	Screw, float bowl cover (long)	3	3
27-25851	24	Gasket, strainer cover (large)	3	3
27-25849	25	Gasket, strainer cover (small)	3	3
1399-1135	26	Cover, strainer	3	3
27-25848	27	Gasket, strainer cover screw	3	3
10-25822	28	Screw, strainer cover fastening	3	3
10-23035	29	Screw and Lockwasher, throttle shutter	3	3
1399-107	30	Shutter, throttle	3	3
1399-960	31	Tube, by-pass	3	3
10-23030	32	Screw, plug - by-pass tube	3	3
19-20011	33	Welch Plug, body channel	3	3
10-20870	34	Screw, plug - body channel	3	3
10-28405	--	Screw, plug - main fuel jet channel	-	3
27-28406	--	Gasket, jet channel plug screw	-	3
1399-1145	--	Gasket and Packing Set	3	3
1399-1146	--	Repair Parts Kit	3	-
1399-1625	--	Repair Parts Kit	-	3
27-20183	35	Gasket, carburetor flange	3	3
11-24652	36	Nut, carburetor mounting stud	6	6
24823A1	37	Knob Assembly, main adjustment screw	3	-
10-22928	38	Screw, knob fastening	3	-

NOTE: Use on center and lower carburetor only - replace with 29193 cluster on upper carburetor.

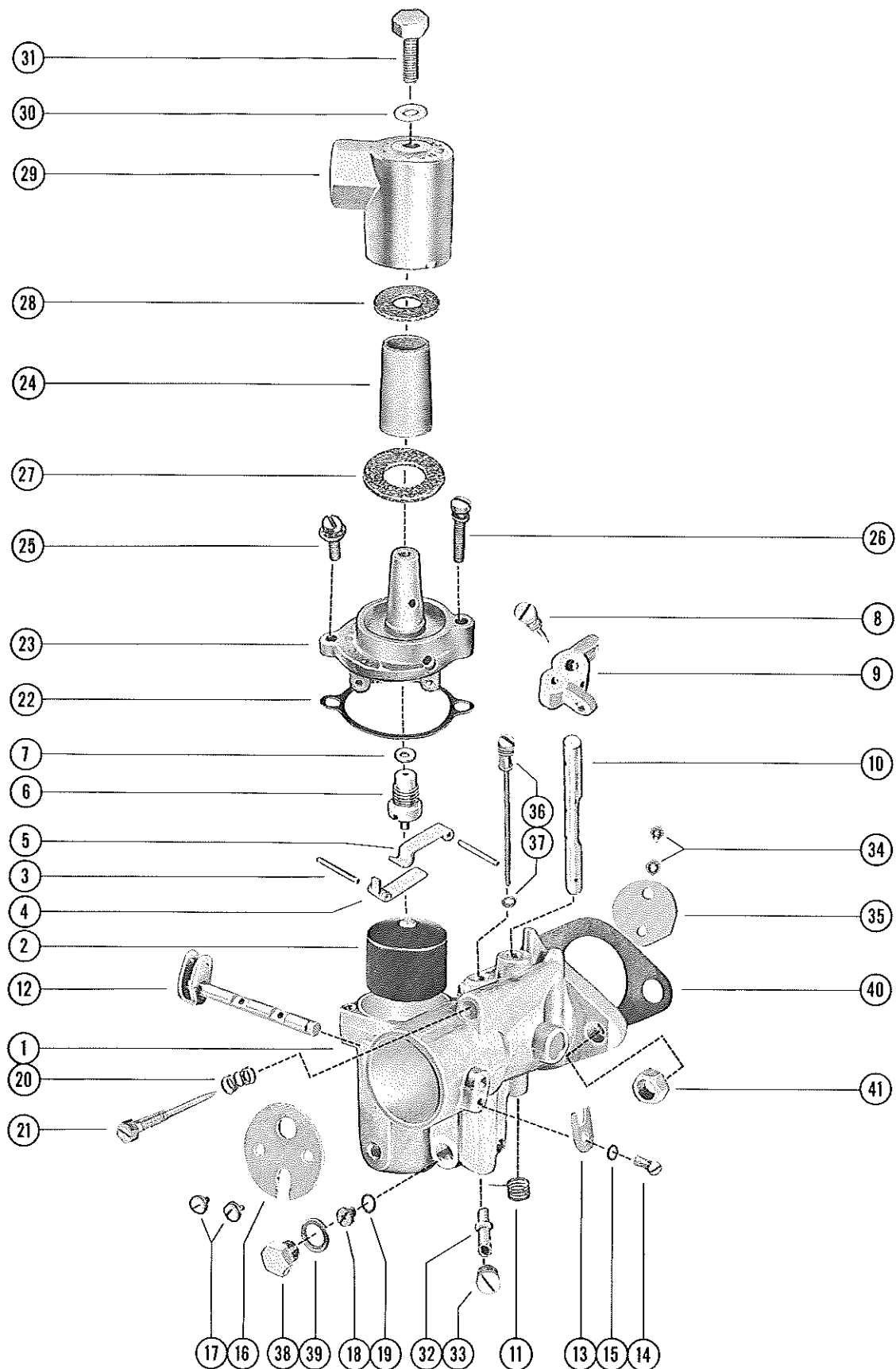
#Use thru Serial #1113105

* Started with Serial #1113106

CARBURETOR ASSEMBLY



CARBURETOR ASSEMBLY



CARBURETOR ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 78A
1333-1387	1	Carburetor Assembly, Complete (KA-2A)	3	3
1399-110A1	2	Float Assembly	3	3
17-20853	3	Pin, float lever pinion	6	6
1399-102	4	Lever, float (lower)	3	3
1399-101	5	Lever, float (upper)	3	3
1399-1473	6	Inlet Needle, Seat and Gasket	3	3
27-25033	7	Gasket, inlet seat	3	3
10-20847	8	Screw, throttle stop lever	3	3
1399-97	9	Lever, throttle stop <i>(see note below)</i>	3	3
1399-1475	10	Shaft, throttle	3	3
24-20869	11	Spring, throttle shaft return <i>(upper carburetor)</i>	1	1
24-26890	11	Spring, throttle shaft return <i>(center and lower carburetor)</i>	2	2
1399-1469	12	Choke Shaft and Lever	3	3
54-28407	13	Clip, choke shaft retaining	3	3
10-28408	14	Screw, retaining clip to lower carburetor	3	3
13-26995	15	Lockwasher, retaining clip screw	3	3
1399-1470	16	Shutter, choke	3	3
10-23035	17	Screw and Lockwasher, choke shutter	6	6
1399-1457	18	Jet, main fuel (.057)	Opt.	Opt.
1399-1459	18	Jet, main fuel (.059)	Opt.	Opt.
1399-1461	18	Jet, main fuel (.061)	Opt.	Opt.
1399-1463	18	Jet, main fuel (.063 - Std.) <i>(see Bulletin #265 dated 2-4-58)</i>	3	3
1399-1465	18	Jet, main fuel (.065)	Opt.	Opt.
1399-1467	18	Jet, main fuel (.067)	Opt.	Opt.
27-28409	19	Gasket, main fuel jet	3	3
24-27160	20	Spring, idle adjustment screw	3	3
1399-1608	21	Screw, idle adjustment	3	3
1399-99	22	Gasket, float bowl cover	3	3
1399-1133	23	Cover, float bowl	3	3
1399-1136	24	Element, filter	3	3
10-20854	25	Screw, float bowl cover (short)	3	3
10-25850	26	Screw, float bowl cover (long)	3	3
27-25851	27	Gasket, strainer cover (large)	3	3
27-25849	28	Gasket, strainer cover (small)	3	3
1399-1135	29	Cover, strainer	3	3
27-25848	30	Gasket, strainer cover screw	3	3
10-25822	31	Screw, strainer cover fastening	3	3
1399-1474	32	Nozzle, main	3	3
10-23178	33	Screw, plug - main nozzle	3	3
10-23035	34	Screw and Lockwasher, throttle shutter	6	6
1399-1476	35	Shutter, throttle	3	3
1399-1472	36	Tube, idle	3	3
27-23180	37	Gasket, idle tube	3	3
19-20011	--	Welch Plug, body channel	3	3
10-28405	38	Screw, plug - body channel	3	3
27-28406	39	Gasket, body channel plug screw	3	3
1399-1477	--	Gasket and Packing Set (1 per carburetor)	3	3
1399-1478	--	Repair Parts Kit (1 per carburetor)	3	3
27-26891	40	Gasket, carburetor flange	3	3
11-20083	41	Nut, carburetor mounting stud	6	-
11-29250	41	Nut, carburetor mounting stud	-	6
12-20084	42	Washer, carburetor mounting stud	6	-

NOTE: Use on center and lower carburetor only - replace with 27977 cluster on upper carburetor.

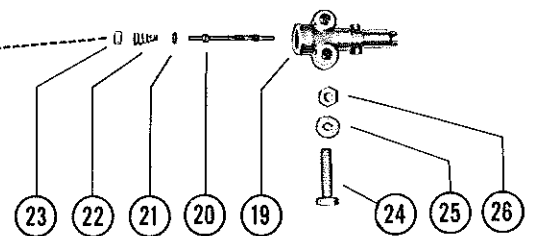
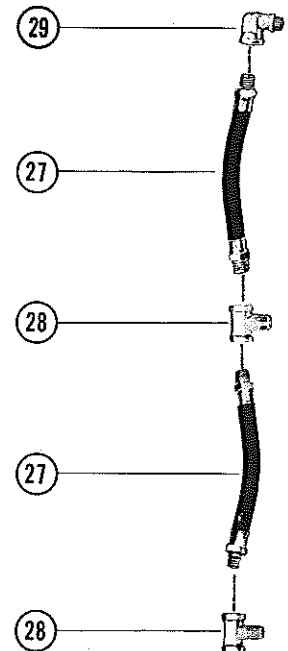
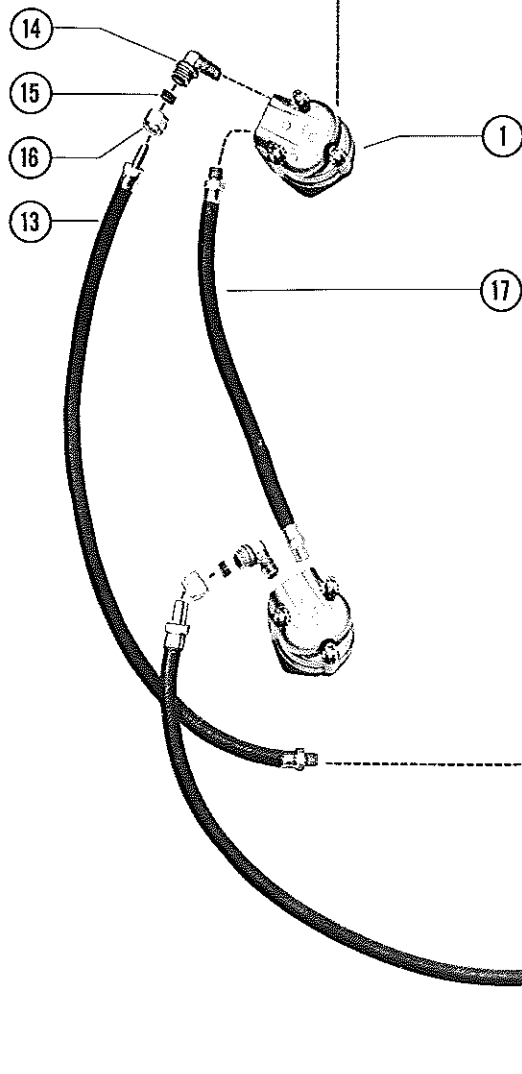
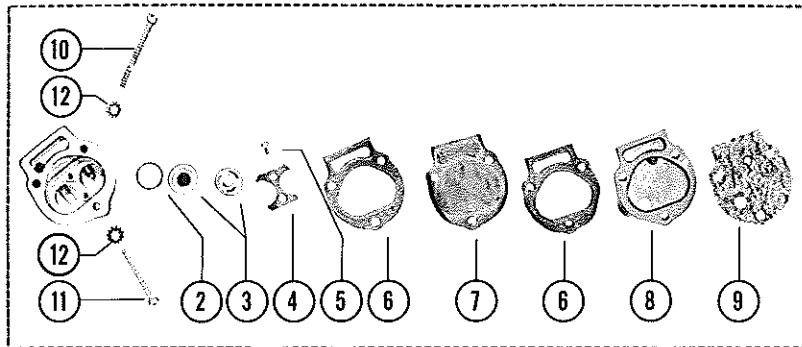
FUEL PUMP AND FUEL LINES

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
23009A1	1	#Fuel Pump Assembly	2	2	2
27-23005	2	Gasket, check valve to housing	4	4	4
21-30430	3	Valve, check - fuel pump	4	4	4
23004	4	Retainer, check valve	2	2	2
10-20037	5	Screw, retainer to housing	4	4	4
27-24863	6	Gasket, fuel pump	4	4	4
23014	7	Diaphragm, fuel pump	2	2	2
29178A2	1	*Fuel Pump Assembly, upper	-	1	1
27-23005	2	Gasket, check valve to housing	-	2	2
21-30430	3	Valve, check - fuel pump	-	2	2
23004	4	Retainer, check valve	-	1	1
10-20037	5	Screw, retainer to housing	-	2	2
27-24863	6	Gasket, fuel pump	-	2	2
23014	7	Diaphragm, fuel pump	-	1	1
22-29380	-	Plug, pipe - fuel pump housing outlet	-	1	1
29127A2	1	*Fuel Pump Assembly, lower	-	1	1
27-23005	2	Gasket, check valve to housing	-	2	2
21-30430	3	Valve, check - fuel pump	-	2	2
23004	4	Retainer, check valve	-	1	1
10-20037	5	Screw, retainer to housing	-	2	2
27-24863	6	Gasket, fuel pump	-	2	2
23014	7	Diaphragm, fuel pump	-	1	1
23008	8	Cover, fuel pump	2	-	-
23008	8	Cover, fuel pump - lower pump	-	1	1
29044	8	Cover, fuel pump - upper pump	-	1	1
27-23013	9	Gasket, fuel pump cover	2	2	2
10-25211	10	Screw, fuel pump mounting (1 7/8")	4	-	-
10-29030	10	#Screw, fuel pump mounting (1 7/8")	-	4	4
10-29126	10	*Screw, fuel pump mounting (1 3/4")	-	4	4
10-25207	11	Screw, fuel pump mounting (1 1/2")	2	-	-
10-29029	11	Screw, fuel pump mounting (1 1/2")	-	2	2
13-26996	12	Lockwasher, fuel pump mounting screw	6	-	-
32-30035	13	Fuel Line, upper pump to lower carburetor	1	1	1
22-22995	14	#Elbow, upper fuel pump outlet	1	1	1
22-22946	15	Sleeve, rubber	1	1	1
11-22948	16	Nut, elbow	1	1	1
32-28604	17	#Fuel Line, lower pump outlet to upper pump inlet (12 3/4")	1	1	1
32-29278	17	*Fuel Line, lower pump outlet to upper pump inlet (8")	-	1	1
22-22995	14	Elbow, lower fuel pump inlet	1	1	1
22-22946	15	Sleeve, rubber	1	1	1
11-22948	16	Nut, elbow	1	1	1
32-23761	18	Fuel Line, adaptor to lower fuel pump	1	1	1
22833	19	Adaptor, check unit (fuel line)	1	1	1
23069	20	Stem, check unit adaptor	1	1	1
25-20415	21	"O" Ring, adaptor stem	1	1	1
24-23067	22	Spring, adaptor stem	1	1	1
23068	23	Cup Washer, adaptor	1	1	1
10-20784	24	Screw, adaptor to bottom cowl	2	2	2
13-26992	25	Lockwasher, adaptor fastening screw	2	-	-
11-21825	26	Nut, adaptor fastening screw	2	-	-
11-20184	26	Nut, adaptor fastening screw	-	2	2
32-29194	27	Fuel Line, upper to center to lower carburetor	2	2	2
22-25956	28	Tee, center and lower carburetor	2	2	2
22-25443	29	Elbow, upper carburetor to fuel line	1	1	1

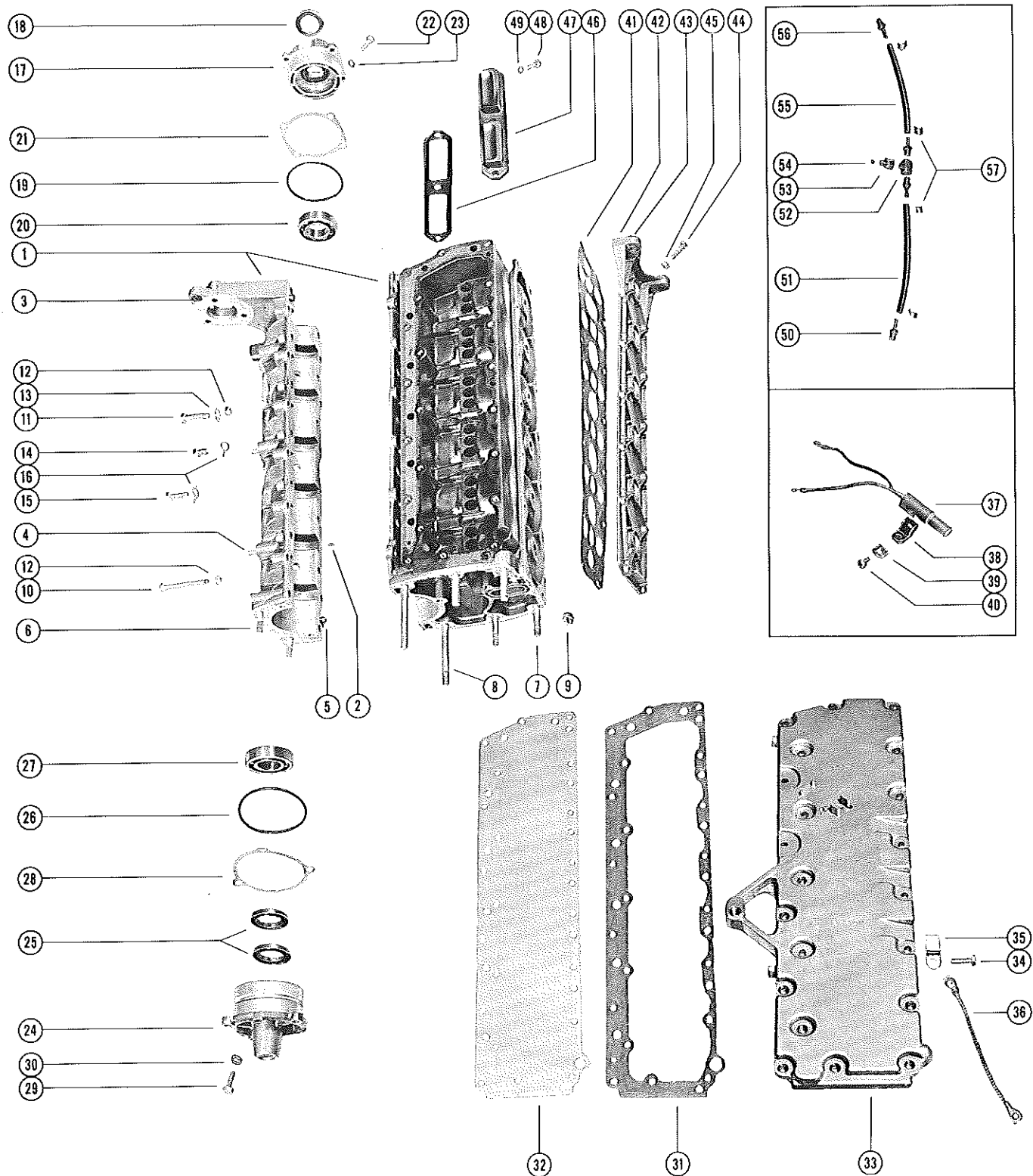
Use thru serial #1111605 on Mark 75A engines and thru serial #1249189 on Mark 78A engines.

* Started with serial #1111606 on Mark 75A engines and with serial #1249190 on Mark 78A engines.

FUEL PUMP AND FUEL LINES



CYLINDER BLOCK AND CRANKCASE ASSEMBLY



CYLINDER BLOCK AND CRANKCASE ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
832-1411A3	1	Cylinder Block and Crankcase Assembly	1	-	1
832-1411A5	1	Cylinder Block and Crankcase Assembly	-	1	-
17-20032	2	Dowel Pin, cylinder block to main bearing	3	3	3
23-26348	3	Bushing, crankcase - cowl mounting stud	2	2	2
16-21831	4	Stud, carburetor mounting	6	-	6
16-25385	4	Stud, carburetor mounting	-	6	-
17-20033	5	Dowel Pin, crankcase to cylinder block	2	2	2
16-26133	6	Stud, crankcase to drive shaft housing	2	2	2
16-26135	7	Stud, cylinder block to drive shaft housing	4	4	4
16-26134	8	Stud, cylinder block to drive shaft housing	2	2	2
22-21290	9	Plug, pipe - bleed hole	AR	-	AR
10-22039	10	Screw, crankcase to cylinder block (2 3/4")	2	2	2
10-27005	10	Screw, crankcase to cylinder block (2 7/8")	1	1	1
10-26132	10	Screw, crankcase to cylinder block (2 1/2")	2	2	2
10-22040	11	Screw, crankcase to cylinder block (1 1/2")	18	18	18
10-21574	11	Screw, crankcase to cylinder block (1 5/8")	3	3	3
11-29250	12	Nut, crankcase fastening screw	26	26	26
26551	13	Bracket, clamp extension	1	1	1
10-20089	14	Screw, main bearing locking	3	3	3
10-20359	15	Screw, center main bearing locking	2	2	2
14-20091	16	Tab Washer, bearing locking screw	5	5	5
1100-1438A1	17	End Cap Assembly, upper	1	1	1
26-29476	18	Oil Seal	1	1	1
25-20081	19	"O" Ring	1	1	1
30-20080	20	Bearing, ball	1	1	1
15-20082	21	Shim, end cap to crankcase (.002-3-5-10)	AR	AR	AR
10-29256	22	Screw, end cap mounting	4	-	-
10-29198	22	Screw, end cap mounting	-	4	4
13-26993	23	Lockwasher, end cap mounting screw	4	-	-
1102-1484A1	24	End Cap Assembly, lower	1	-	-
26-29476	25	Oil Seal	2	-	-
25-20081	26	"O" Ring	1	-	-
30-20080	27	Bearing, ball	1	-	-
1102-1485A1	24	End Cap Assembly, lower	1	1	1
26-29476	25	Oil Seal	1	1	1
26-29478	25	Oil Seal	1	1	1
25-20081	26	"O" Ring	1	1	1
30-20080	27	Bearing, ball	1	1	1
21-28481A1	--	Check Valve Assembly, end cap	1	1	1
15-20085	28	Shim, end cap to crankcase (.002-3-5-10)	AR	AR	AR
10-29256	29	Screw, end cap mounting	3	-	-
10-29198	29	Screw, end cap mounting	-	3	3
13-26993	30	Lockwasher, end cap mounting screw	3	-	-
27-30089	31	Gasket, cylinder block to manifold plate to cover	2	2	2
26077	32	Plate, exhaust manifold	1	1	1
28290	33	Cover, exhaust manifold	1	1	1
10-28668	34	Screw, manifold cover mounting (7/8")	19	21	21
10-28667	34	Screw, manifold cover mounting (1")	2	-	-
54-26519	35	Clamp, spark plug lead to cover	3	3	3
30109	36	Ground Strap Assembly, cylinder block to bottom cowl	-	1	1
28265	37	Switch, mercury	1	-	-
28921	37	Switch, mercury	-	-	1
54-22875	38	Clamp, mercury switch fastening	1	-	1
22789	39	"D" Washer, mercury switch fastening screw	1	-	1
10-30009	40	Screw, mercury switch fastening	1	-	1
27-26072	41	Gasket, cylinder block cover	1	1	1
1010-1267A1	42	Cylinder Block Cover Assembly	1	1	1
23-26348	43	Bushing, cover - cowl mounting stud	2	2	2
10-20653	44	Screw, cylinder block cover mounting	14	14	14
11-20184	45	Nut, cylinder block cover mounting screw	14	14	14
27-27936	46	Gasket, transfer port cover	3	3	3
27935	47	Cover, transfer port	3	3	3
10-20540	48	Screw, transfer port cover mounting (5/8")	9	8	8
10-24770	48	Screw, transfer port cover and resistor snubber mounting (1 3/8")	-	1	1
12-20028	49	Washer, transfer port cover mounting screw	9	-	-
13-26992	49	Lockwasher, transfer port cover and resistor snubber mounting screw	-	1	1
22-20445	50	Connector, cylinder bleed hose - lower	3	3	3
32-28665	51	Hose, cylinder bleed (5 1/2") - lower	1	1	1
22-25956	52	Tee, check valve and adaptor	1	1	1
22-28586A1	53	Adaptor and Check Valve Assembly	1	1	1
21-28481A1	54	Check Valve Assembly, adaptor	1	1	1
32-28654	55	Hose, cylinder bleed (6 1/2") - upper	1	1	1
21-28483A1	56	Check Valve Assembly, upper - bleed hose	1	1	1
21-28481A1	54	Check Valve Assembly	1	1	1
54-20387	57	Clamp, bleed hose to connector	4	4	4

CRANKSHAFT, PISTON AND CONNECTING ROD ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
414-1188	1	Crankshaft <i>(see note #1 below)</i>	1	1	1
20043	2	Oiler, felt - drive shaft spline	1	1	1
28-20094	3	Key, flywheel drive	1	1	1
521-1191A2	4	Center Main Bearing Ass'y <i>(use thru Serial #1166568 on Mark 78)</i>	2	-	-
521-1490A1	4	Center Main Bearing Ass'y <i>(started with Serial #1166569 on Mark 78)</i>	2	2	2
17-20032	5	Dowel Pin, center main bearing	4	4	4
29-26114	6	Bearing, needle - outer race	112	112	112
26113	7	Race, outer (pair)	2	2	2
53-26933	8	Ring, snap - outer race	2	2	2
17-27732	9	Dowel Pin, stepped	2	2	2
10-22968	10	Screw, center main bearing clamping	4	4	4
11-20184	11	Nut, center main bearing clamping screw	4	4	4
520-1164A2	12	Main Bearing Assembly, valve type	3	3	3
17-20032	13	Dowel Pin, main bearing	30	30	30
10-20049	14	Screw, main bearing clamping	6	6	6
34-20888	15	Reed Set, matched - main bearing	3	3	3
34-20053	16	Reed Stop, main bearing reed valve	12	12	12
12-26014	17	Washer, reed stop mounting screw	12	12	12
10-20055	18	Screw, reed stop mounting	12	12	12
724-1631A2	19	Piston and Piston Pin Assembly	6	6	6
40-20057	20	Lock Ring, piston pin	12	12	12
39-27841	21	Ring, piston	18	18	18
600-7A4	22	Connecting Rod and Cap Assembly <i>(see note #2 below)</i>	6	6	6
10-20060	23	Screw, connecting rod	12	12	12
11-20061	24	Nut, connecting rod screw	12	12	12
29-20046	25	Bearing, needle - crankpin	150	150	150
29-20063	26	Bearing, needle - piston pin	132	132	132
12-28121	27	Washer, needle locating	12	12	12

NOTE #1: 414-1188 Crankshaft is no longer available. For replacement -- order 414-1735 Crankshaft. The difference is the number of needle bearings in the outer race. 414-1188 Crankshaft requires 112 needle bearings, whereas 414-1735 Crankshaft requires 56 needle bearings.

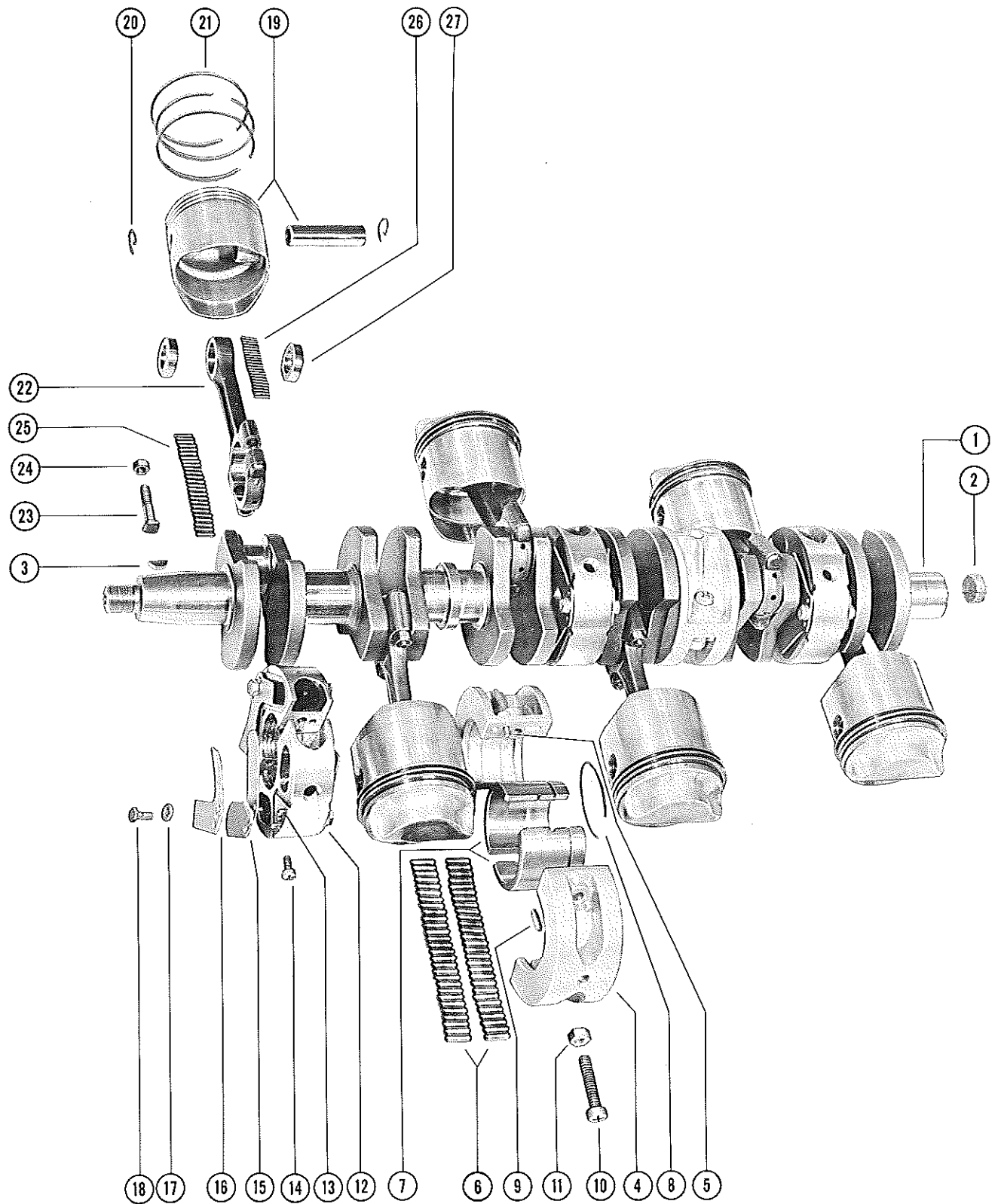
Oversize Pistons and Rings

724-1663A1	--	Piston and Piston Pin Assembly (.015 Oversize)	6	6	6
39-28616	--	Rings, piston (.015 Oversize)	18	18	18

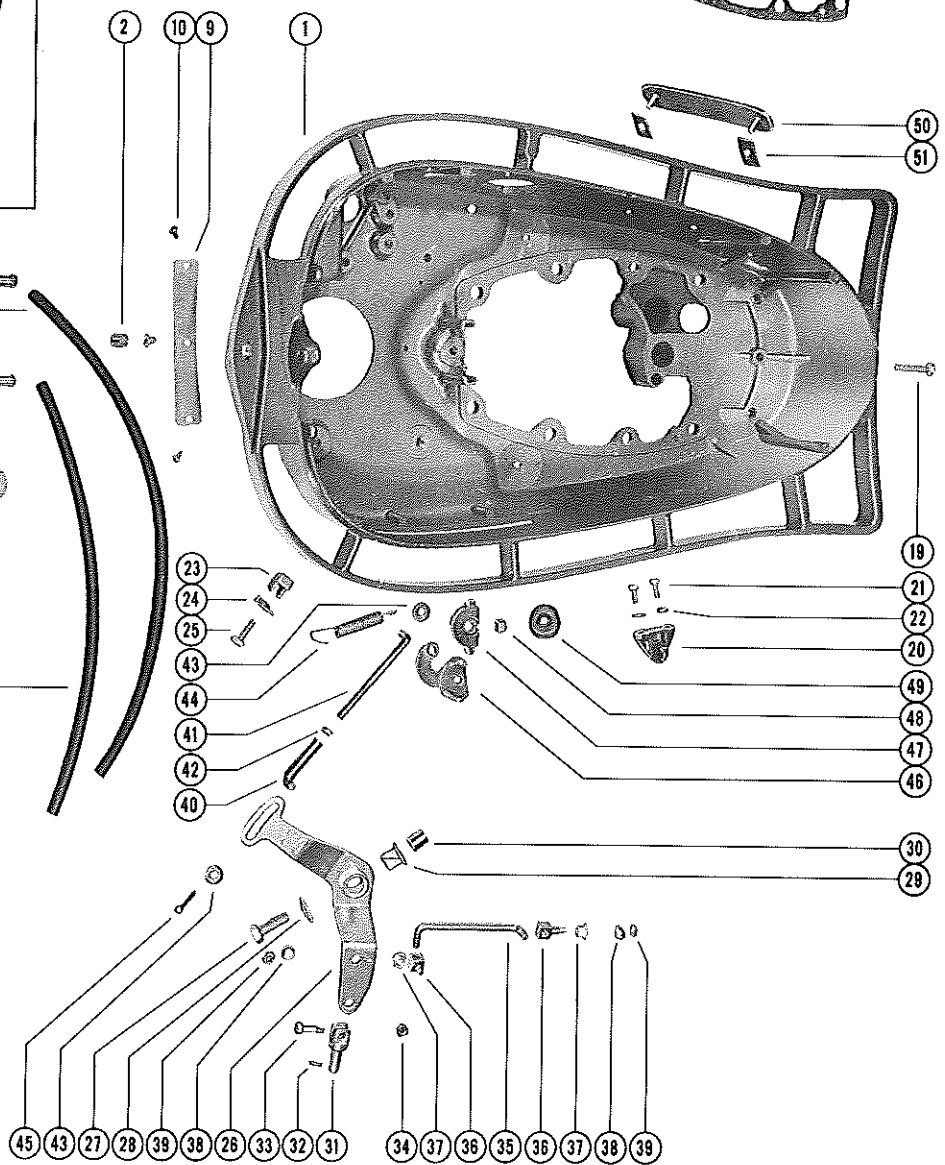
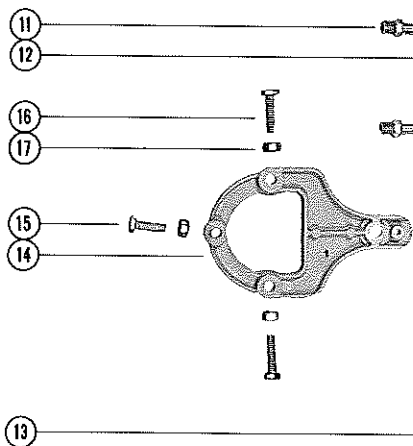
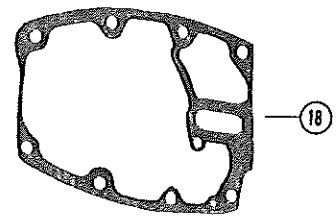
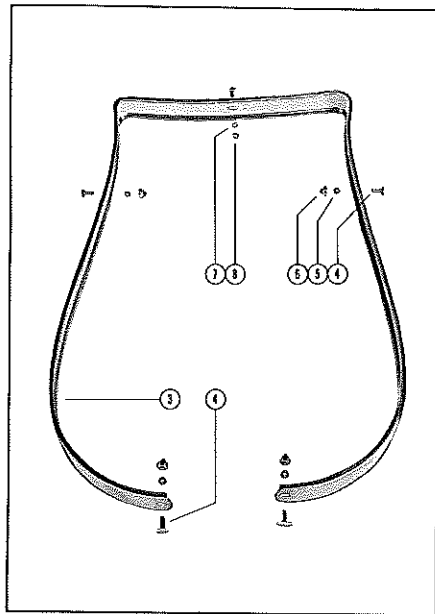
NOTE #2: 600-7A1, 600-7A3 and 600-7A4 Connecting Rod and Cap Assemblies are identical to each other except for thickness of needle locating washers. The connecting rods can be made interchangeable by removing washers from one assembly and using the washers of another thickness depending on which model engine they are to be used. Consult parts list for correct washer part number. See chart below.

Connecting Rod & Cap Assembly	Washer	Washer Thickness
600-7A1	12-20064	1/4"
600-7A3	12-26178	1/32"
600-7A4	12-28121	1/16"

CRANKSHAFT, PISTON AND CONNECTING ROD ASSEMBLY



BOTTOM COWL ASSEMBLY



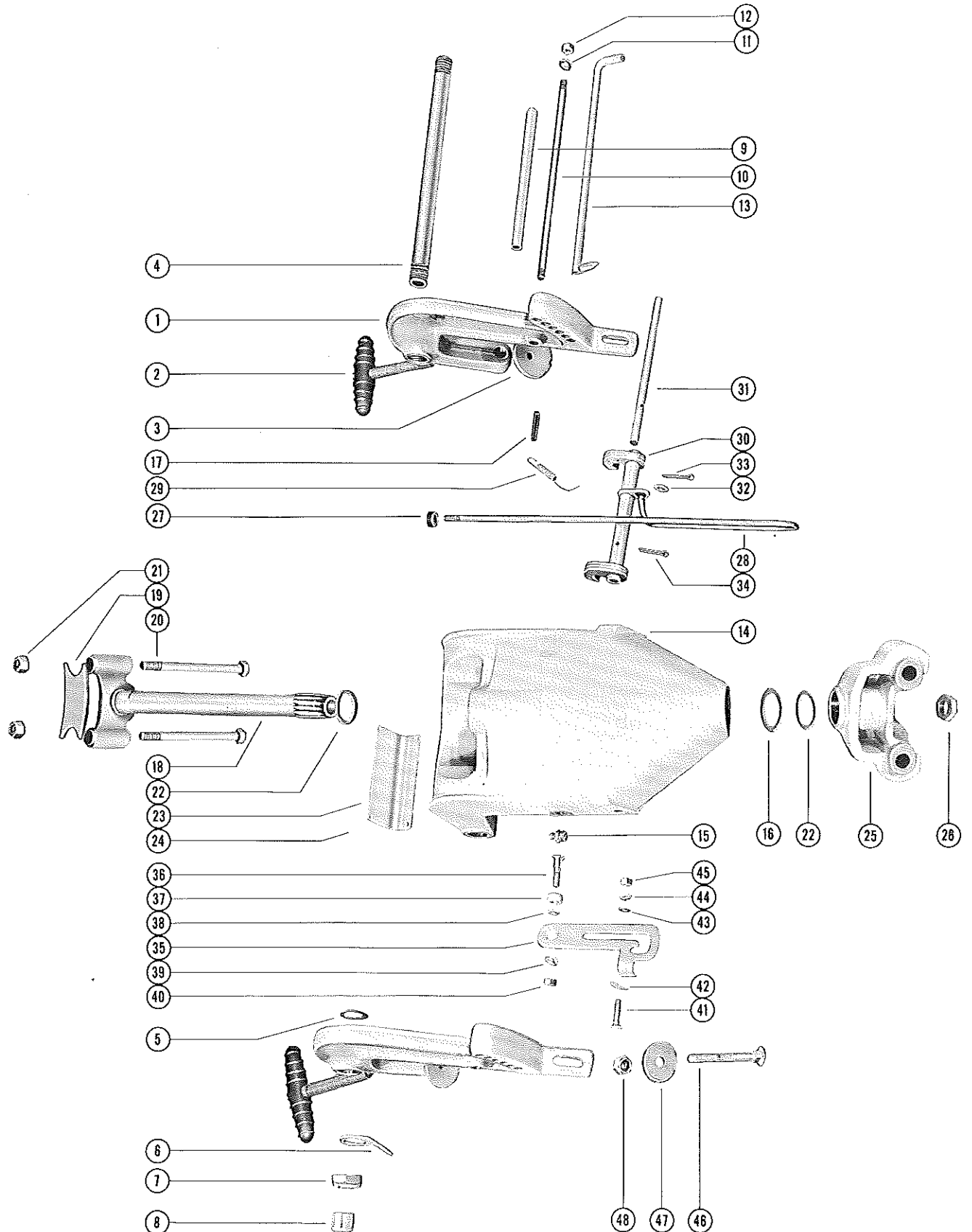
BOTTOM COWL ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
167-1546A2	1	Bottom Cowl Assembly <i>(without trim moulding)</i>	1	1	1
167-1598A2	1	Bottom Cowl Assembly <i>(with trim moulding)</i>	-	-	1
21041	2	Insert, tap-lock	1	1	1
29229A1	3	Trim Moulding Assembly	-	-	1
10-29226	4	Screw, decorative - trim moulding to bottom cowl	-	-	5
12-24671	5	Washer, fiber - moulding fastening screw	-	-	4
11-29225	6	Nut, nylon cap - moulding fastening screw	-	-	4
13-26995	7	Lockwasher, moulding fastening screw	-	-	1
11-26419	8	Nut, brass - moulding fastening screw	-	-	1
23760	9	Baffle, bottom cowl	1	1	1
10-21106	10	Screw, baffle to bottom cowl	3	3	3
37-23076	--	Decal, MercElectric - bottom cowl	-	1	1
22-20380	11	Connector, distributor vent tube	2	-	-
22-29111	11	Connector, distributor vent tube	-	2	2
32-26407	12	Tube, vent - distributor (16")	1	1	1
32-26542	13	Tube, vent - distributor (13")	1	1	1
27971	14	Bracket, rectifier mounting	1	1	1
10-22956	15	Screw, bracket to bottom cowl (7/8")	1	1	1
10-21091	16	Screw, bracket to bottom cowl (1 1/8")	2	2	2
11-20184	17	Nut, bracket to bottom cowl screw	3	3	3
27-26197	18	Gasket, powerhead to bottom cowl	1	1	1
10-21504	19	Screw, bottom cowl to drive shaft housing	1	1	1
20557	20	Bracket, cable end anchor	1	1	1
10-20100	21	Screw, anchor bracket to bottom cowl	2	2	-
10-29200	21	Screw, anchor bracket to bottom cowl	-	-	2
13-20554	22	Lockwasher, anchor bracket to bottom cowl screw	2	2	-
21968	23	Stop Block, throttle adjusting	2	2	2
12-21967	24	Washer, stop block screw	2	2	2
10-28636	25	Screw, stop block holding	2	2	2
26587A1	26	Control Lever Assembly	1	1	1
24-29109	--	Spring, tension - control lever to vertical shaft	-	1	1
10-20359	27	Screw, control lever to bottom cowl	1	1	1
12-21040	28	Washer, control lever screw	1	1	1
23-26850	29	Bushing, nylon - control lever	1	1	1
23-26603	30	Bushing, steel - control lever	1	1	1
17-20592A1	31	Pin Assembly, clevis yoke	1	1	1
17-23928	32	Roll Pin, clevis yoke pin	1	1	1
10-20584	33	Screw, clevis pin to control lever	1	1	1
11-20110	34	Nut, clevis pin to control lever screw	1	1	1
26591	35	Link, control lever to vertical shaft	1	1	1
26590	36	Swivel, control and vertical lever link	2	2	2
23-26856	37	Bushing, control lever swivel	2	2	2
13-26851	38	Washer, wave - lever link swivel	2	2	2
11-20110	39	Nut, lever link swivel fastening	2	2	2
26589A1	40	Link Rod Assembly, control lever end	1	1	1
26588	41	Rod, link - drive cam	1	1	1
11-25168	42	Nut, link rod adjusting	1	1	1
12-20533	43	Washer, link rod end	2	2	2
24-24826	44	Spring, control lever tension	1	1	1
18-20180	45	Cotter Pin, link rod to control lever	1	1	1
26579	46	Cam, drive - tilt lock	1	1	1
26577	47	Cam, top - tilt lock	1	1	1
11-20361	48	Nut, cam fastening - push rod	1	1	1
25-26630	49	"O" Ring, bottom cowl - push rod	1	1	1
38-28150	50	Plate, name - bottom cowl	1	1	1
53-25539	51	Fastener, name plate to bottom cowl	2	2	2

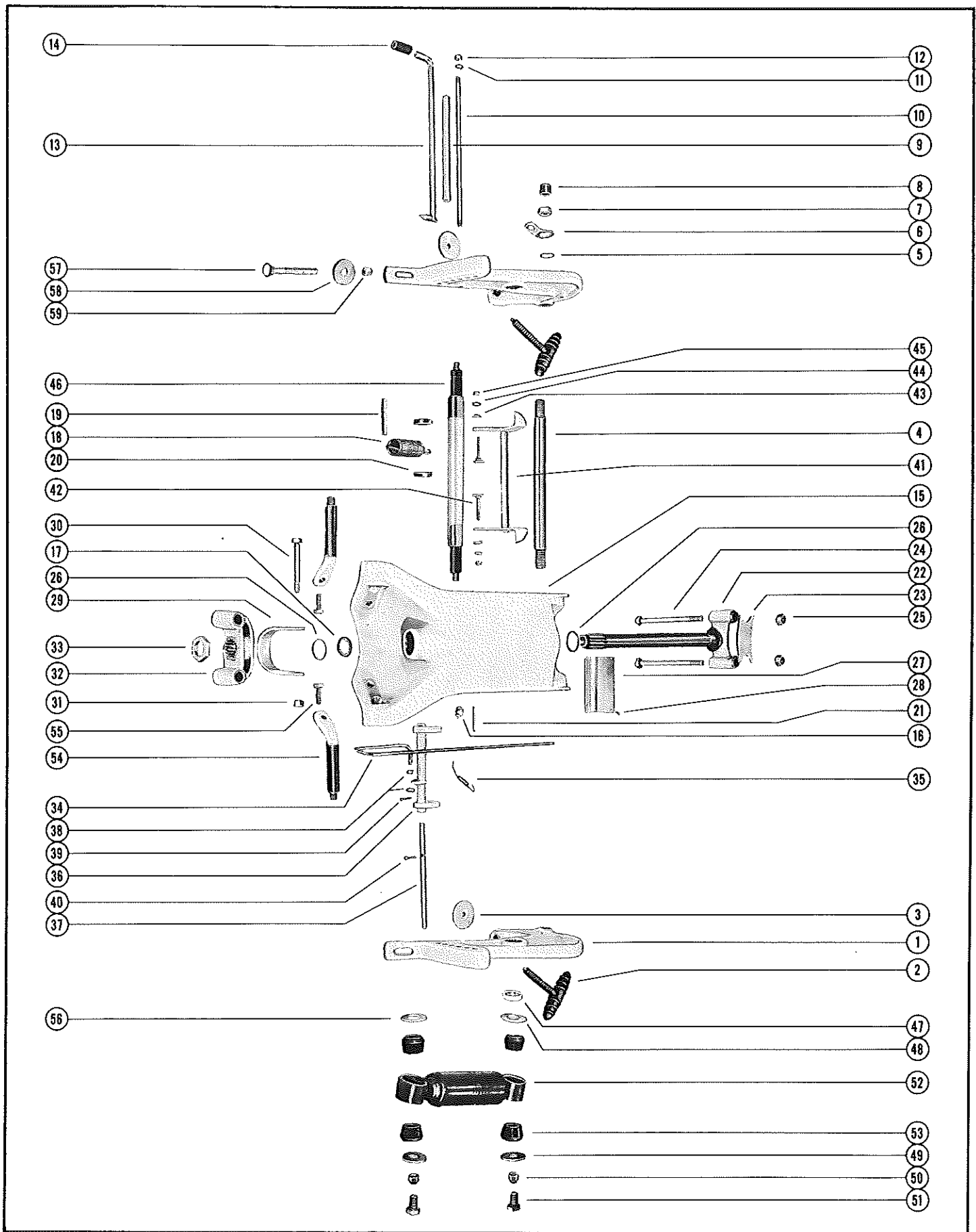
CLAMP AND SWIVEL BRACKET ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 75A
1440-1464A1	1	Clamp Bracket Assembly	2
28403A3	2	Thumb Screw Assembly	2
12-28404	3	Washer, thumb screw	2
28122	4	Tube, tilt - clamp bracket to swivel bracket	1
15-25600	5	Shim, clamp bracket tilt tube (.010 - .020)	2
54-25735	6	Clip, safety chain <i>(no longer used on later engines)</i>	1
11-25599	7	Nut, tilt tube fastening	2
25606	8	Cap, plastic - tilt tube	2
23-20222	9	Spacer, clamp bracket stud	1
16-20221	10	Stud, clamp bracket	1
13-26993	11	Lockwasher, clamp bracket stud	2
11-20083	12	Nut, clamp bracket stud	2
17-29219A1	13	Tilt Lock Pin Assembly	1
1442-1401A1	14	Swivel Bracket Assembly	1
22-23612	15	Fitting, grease	1
26-26209	16	Oil Seal	1
29359	--	Lubricap, swivel bracket grease fitting	1
17-25598	17	Pin, reverse lock spring attaching	1
17-28211A1	18	Swivel Pin and Top Yoke Assembly	1
28203	19	Bumper, top yoke	1
10-28255	20	Bolt, top yoke to upper mount	2
11-22178	21	Nut, top yoke bolt fastening	2
12-25176	22	Washer, swivel pin <i>(top washer optional)</i>	1
38-28853	23	Serial Plate	1
10-25612	24	Screw, drive - serial plate to swivel bracket	4
29317	25	Yoke, bottom	1
11-28202	26	Nut, swivel pin retaining	1
25-26630	27	"O" Ring, push rod cap	1
28206	28	Rod, push - reverse lock	1
24-26625	29	Spring, reverse lock tension	1
26903A1	30	Reverse Lock Assembly	1
20208	31	Shaft, reverse lock pivot	1
12-20533	32	Washer, push rod	2
18-25191	33	Cotter Pin, push rod to reverse lock	1
18-20209	34	Cotter Pin, reverse lock to shaft	1
29057	35	Lever, tilt stop - starboard <i>(not as shown)</i>	1
29056	35	Lever, tilt stop - port	1
10-29054	36	Screw, tilt stop lever anchor	2
23-29055	37	Spacer, tilt stop lever	2
12-20028	38	Washer, lever anchor screw	2
13-26992	39	Lockwasher, lever anchor screw	2
11-20088	40	Nut, lever anchor screw	2
10-27791	41	Screw, tilt stop lever retaining	2
13-20846	42	Washer, wave - retaining screw	2
12-20028	43	Washer, lever retaining screw	2
13-26992	44	Lockwasher, lever retaining screw	2
11-20088	45	Nut, lever retaining screw	2
10-28009	46	Bolt, clamp bracket to boat transom	2
12-28008	47	Washer, clamp bracket bolt	2
11-28010	48	Nut, clamp bracket bolt	2

CLAMP AND SWIVEL BRACKET ASSEMBLY



CLAMP AND SWIVEL BRACKET ASSEMBLY



CLAMP AND SWIVEL BRACKET ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 78A
1440-1426A1	1	Clamp Bracket Assembly	2	-
22477A1	2	Thumb Screw Assembly	2	-
12-26227	3	Washer, thumb screw	2	-
1440-1468A1	1	Clamp Bracket Assembly	2	2
28403A3	2	Thumb Screw Assembly	2	2
12-28404	3	Washer, thumb screw	2	2
28122	4	Tube, tilt - clamp bracket to swivel bracket	1	1
15-25600	5	Shim, clamp bracket tilt tube	2	2
54-25735	6	Clip, safety chain	1	1
11-25599	7	Nut, tilt tube fastening	2	2
25606	8	Cap, plastic - tilt tube	2	2
23-20222	9	Spacer, clamp bracket stud	1	1
16-20221	10	Stud, clamp bracket	1	1
13-26993	11	Lockwasher, clamp bracket stud	2	2
11-20083	12	Nut, clamp bracket stud	2	2
17-29219A1	13	Tilt Lock Pin Assembly	1	1
32-28052	14	Sleeve, rubber - tilt lock pin bumper	1	1
1446-1443A3	15	Swivel Bracket Assembly (see note #1 below)	1	1
22-23612	16	Fitting, grease	1	1
26-26209	17	Oil Seal	1	1
24-28659	18	Spring, coil - swivel bracket	1	1
17-28658	19	Pin, coil spring mounting	1	1
29359	--	Lubricap, swivel pin grease fitting	1	1
23-28688	20	Spacer, rubber - coil spring positioning	2	2
17-20363	21	Pin, reverse lock spring attaching	1	-
17-25598	21	Pin, reverse lock spring attaching	-	1
17-28211A1	22	Swivel Pin and Top Yoke Assembly	1	1
28203	23	Bumper, top yoke	1	1
10-28255	24	Bolt, top yoke to upper mount	2	2
11-22178	25	Nut, top yoke bolt fastening	2	2
12-25176	26	Washer, swivel pin (top washer optional on Mark 78A)	2	1
38-28043	27	Serial Plate	1	-
38-28854	27	Serial Plate	-	1
10-25612	28	Screw, drive - serial plate to swivel bracket	4	4
28205	29	Strap Stop, drive shaft housing to swivel bracket	1	1
10-28200	30	Screw, strap stop to drive shaft housing	1	1
11-25269	31	Nut, strap stop fastening screw	1	1
29317	32	Yoke, bottom	1	1
11-28202	33	Nut, swivel pin retaining	1	1
25-26630	--	"O" Ring, push rod cap	1	1
28206	34	Rod, push - reverse lock	1	1
24-26625	35	Spring, reverse lock tension	1	1
26903A1	36	Reverse Lock Assembly	1	1
20208	37	Shaft, reverse lock pivot	1	1
12-20533	38	Washer, push rod	2	2
18-25191	39	Cotter Pin, push rod to reverse lock	1	1
18-20209	40	Cotter Pin, reverse lock to shaft	1	1
28338A1	41	Tilt Stop Lever Assembly	1	1
10-28339	42	Screw, tilt stop lever anchor	2	2
13-20846	43	Washer, wave - lever anchor screw	2	2
13-26992	44	Lockwasher, lever anchor screw	2	-
11-20088	45	Nut, lever anchor screw	2	-
11-20184	45	Nut, lever anchor screw	-	2
17-28208	46	Pin, upper shock mounting (see note #2 below)	1	-
55-28416	46	Pin, upper shock mounting (started with Serial #1166569 on Mark 78)	1	1
23-28199	47	Spacer, upper shock bushing to clamp bracket	2	2
12-28198	48	Washer, upper bushing retainer (inner)	2	2
12-28197	49	Washer, upper and lower bushing retainer (outer)	4	-
11-25096	50	Nut, upper and lower shock mounting pin	4	-
12-28197	49	Washer, upper and lower bushing retainer (outer)	4	-
10-28450	51	Screw, nylock - upper and lower shock mounting pin	4	4
12-28421	49	Washer, upper and lower bushing retainer (outer)	-	4
55-28209	52	Shock Absorber	2	2
23-28198	53	Bushing, rubber - shock absorber	8	8
17-28207	54	Pin, lower shock mounting (use thru Serial #1166568 on Mark 78)	2	-
55-28417	54	Pin, lower shock mounting (started with Serial #1166569 on Mark 78)	2	2
10-28263	55	Screw, lower shock pin to drive shaft housing	2	2
12-28264	56	Washer, lower bushing retainer (inner)	2	2
10-28009	57	Bolt, clamp bracket to boat transom	2	2
12-28008	58	Washer, clamp bracket bolt	2	2
11-28010	59	Nut, clamp bracket bolt	2	2

NOTE #1: 1446-1443A1 Swivel Bracket Assembly, as previously listed, is no longer available and is replaced by 1446-1443A3 Swivel Bracket Assembly. Only difference is the addition of 24-28659 spring and 17-28658 pin. The new swivel bracket assembly is adaptable to all Mark 78 engines, prior to Serial #1168445, when replaced as a unit.

NOTE #2: No longer available - order 55-28416A1 Upper Shock Mounting Pin Assembly for Mark 78 engines prior to Serial #1166569.

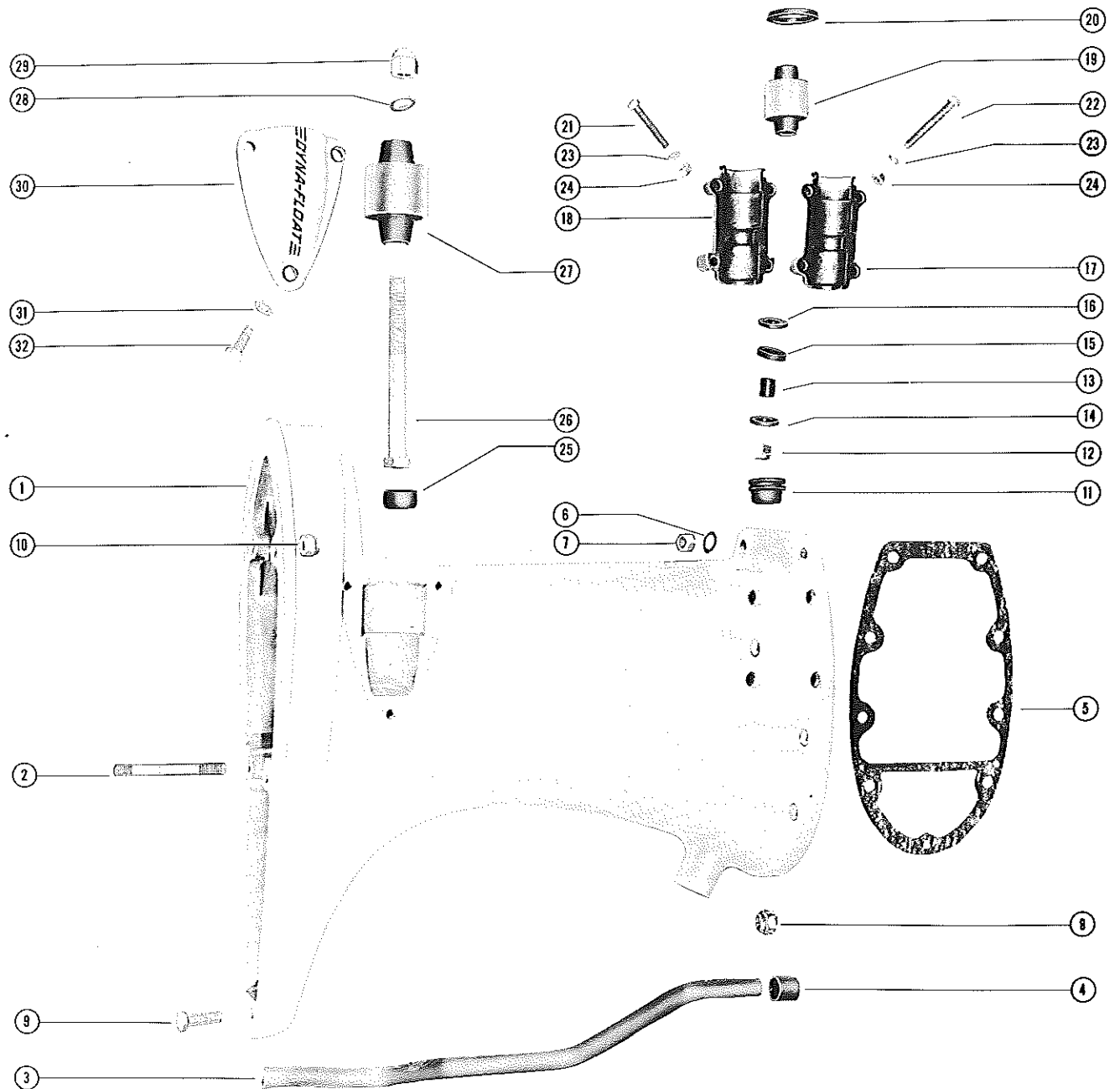
DRIVE SHAFT HOUSING ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MARK 78	MARK 75A	MARK 78A
1529-1451A2	1	#Drive Shaft Housing Assembly (with 3/8" studs)	1	-	1
1529-1575A2	1	#Drive Shaft Housing Assembly (with 3/8" studs)	-	1	-
16-27879	2	#Stud, drive shaft housing to gear housing (3/8")	2	2	2
1529-1564A2	1	*Drive Shaft Housing Assembly (with 7/16" studs)	-	1	-
1529-1574A2	1	*Drive Shaft Housing Assembly (with 7/16" studs)	-	-	1
16-29080	2	*Stud, drive shaft housing to gear housing (7/16")	-	2	2
32-26490	3	Tube, water inlet	1	1	1
26-26207	4	Seal, rubber - water inlet tube	1	1	1
27-26198	5	Gasket, drive shaft housing to bottom cowl	1	1	1
12-20086	6	Washer, powerhead stud	2	2	2
11-20509	7	Nut, powerhead stud	2	2	2
11-23161	8	Nut, powerhead stud	6	6	6
10-26487	9	#Screw, gear housing to drive shaft housing (3/8")	1	1	1
10-29081	9	*Screw, gear housing to drive shaft housing (7/16")	-	1	1
11-23161	10	#Nut, gear housing and drive shaft housing stud (3/8")	5	5	5
11-22178	10	*Nut, gear housing and drive shaft housing stud (7/16")	-	5	5
25305	11	Cap, rubber - upper mount bolt nut	2	2	2
11-22178	12	Nut, upper mount bolt	2	2	2
23-27725	13	Spacer, upper mount bolt	2	2	2
12-27728	14	Washer, upper mount bolt	2	2	2
12-27726	15	Washer, rubber - upper mount bolt	2	2	2
12-27727	16	Washer, upper mount bolt	2	2	2
26218	17	Cover, upper mount - outside half	2	2	2
26217	18	Cover, upper mount - inside half	2	2	2
30463	19	Mount, rubber - upper	2	2	2
24929	20	Packing, "U" cup	2	2	2
10-28773	21	Screw, upper mount cover (1 5/8")	4	4	4
10-28775	22	Screw, upper mount cover (2 1/4")	2	2	2
10-28774	22	Screw, upper mount cover (2")	2	-	2
10-29389	22	Screw, upper mount cover (1 7/8")	-	2	-
13-26992	23	Lockwasher, upper mount cover screw	8	-	-
12-29245	23	Washer, upper mount cover screw	-	8	8
11-29322	24	Nut, upper mount cover screw	8	8	8
25067	25	Bumper, rubber - mounting screw	2	2	2
10-24874	26	Screw, lower mount (5 1/2")	2	2	2
26211	27	Mount, rubber - lower	2	2	2
12-24872	28	Washer, mounting screw	4	2	2
11-25096	29	Nut, mounting screw	2	2	2
26336	30	Cover, lower mount (port side)	1	1	1
26337	30	Cover, lower mount (starboard side)	1	1	1
12-20084	31	Washer, lower mount cover screw	6	-	-
13-26993	31	Lockwasher, lower mount cover screw	-	6	-
10-29256	32	Screw, lower mount cover to drive shaft housing	6	6	6

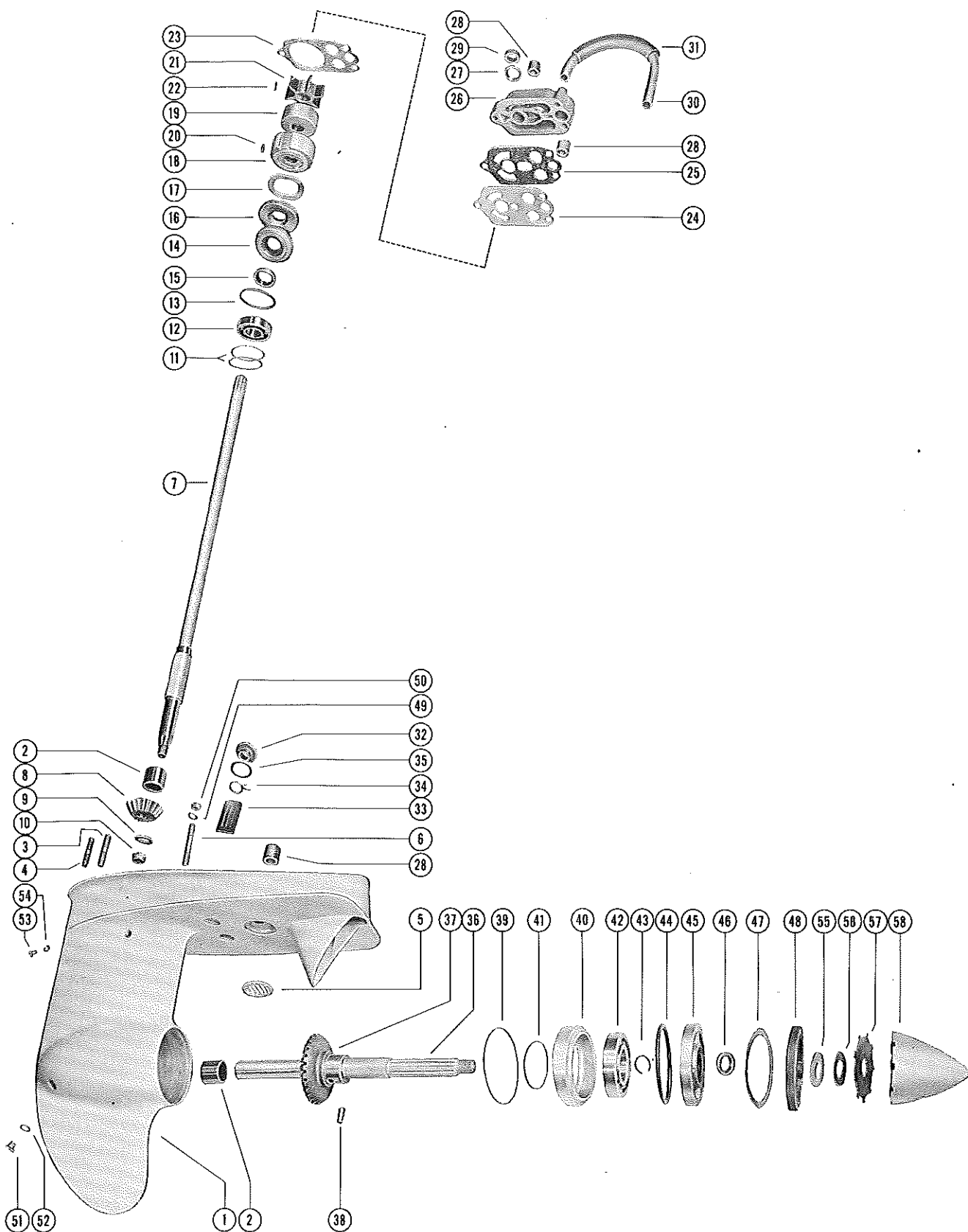
#Use thru serial #1111605 on Mark 75A engines and thru serial #1210025 on Mark 78A engines.

*Started with serial #1111606 on Mark 75A engines and with serial #1210026 on Mark 78A engines.

DRIVE SHAFT HOUSING ASSEMBLY



GEAR HOUSING ASSEMBLY, COMPLETE



GEAR HOUSING ASSEMBLY, COMPLETE

PART NO.	REF. NO.	DESCRIPTION	MARK 78
1613-1452A2	-	Gear Housing Assembly, Complete (use thru Serial #1166568)	1
1613-1452A3	-	Gear Housing Assembly, Complete (started with Serial #1166569)	1
1613-1452A1	1	Gear Housing Assembly	1
31-20231	2	Bearing, roller - propeller shaft and drive shaft	2
16-23071	3	Stud, gear housing to drive shaft housing	2
16-28260	4	Stud, gear housing to drive shaft housing	1
35-26189	5	Screen, water intake	1
16-28771	6	Stud, water pump cover fastening	3
45-26196	7	Drive Shaft	1
43-26214	8	# Gear, pinion { see note below	1
43-27889	8	* Gear, pinion { see note below	1
12-22025	9	Washer, drive shaft	1
11-20220	10	Nut, pinion gear retaining	1
15-20929	11	Shim, ball bearing - drive shaft (.002-3-5-10)	AR
30-20861	12	Bearing, ball - drive shaft	1
25-20266	13	"O" Ring, drive shaft oil seal carrier	1
26191A1	14	Oil Seal Carrier Assembly, drive shaft	1
26-23300	15	Oil Seal, carrier	1
26192	16	Cover, oil seal carrier retainer	1
13-26494	17	Washer, wave - retainer cover to oil seal carrier	1
46-26188A2	18	Water Pump Cartridge Assembly	1
29104	19	Insert, water pump cartridge	1
28-28657	20	Key, cartridge locating	1
47-30041	21	Impeller, water pump	1
17-23733	22	Pin, impeller drive	1
27-26187	23	Gasket, lower - water pump cover	1
26185	24	Plate, face - water pump cover	1
27-26186	25	Gasket, upper - water pump cover	1
26219A1	26	Water Pump Cover Assembly	1
26-23517	27	Oil Seal	1
26-26207	28	Seal, rubber - water inlet tube	2
26-26207	28	Seal, rubber - water inlet tube to gear housing	1
25-20273	29	Ring, rubber - centrifugal slinger	1
32-26489	30	Tube, water intake - lower	1
32-26208	31	Sleeve, water intake tube	1
22-26220A1	32	Water Valve and Adaptor Assembly	2
21-26491	33	Valve, water	2
54-26492	34	Clamp, valve to adaptor	2
15-21158	35	Shim, valve adaptor to gear housing (.003-5-10)	AR
44-26213	36	Shaft, propeller	1
43-26215	37	# Gear, propeller { see note below	1
43-27891	37	* Gear, propeller { see note below	1
43-28443	37	Gear, propeller (started with Serial #1166569)	1
17-26200	38	Dowel Pin, propeller gear to shaft	1
15-26201	39	Shim, adaptor ring to gear housing (.002-3-5)	AR
26202	40	Ring, adaptor - ball bearing	1
15-26229	41	Shim, ball bearing to propeller gear (.003-5-10) (use thru Serial #1166568)	AR
30-20840	42	Bearing, ball - propeller gear	1
53-26210	43	Ring, snap - ball bearing retaining (use thru Serial #1166568)	1
11-28444	--	Nut, ball bearing retaining	1
14-28445	--	Tab Washer, bearing retaining nut { started with Serial #1166569	1
25-26228	44	"O" Ring, bearing adaptor	1
26195A1	45	Oil Seal Carrier Assembly, propeller shaft (use thru Serial #1166568)	1
28442A1	45	Oil Seal Carrier Assembly, propeller shaft (started with Serial #1166569)	1
26-26226	46	Oil Seal, carrier	1
12-26193	47	Washer, gear housing cover	1
26194	48	Cover, gear housing	1
13-26993	49	Lockwasher, water pump cover studs	3
11-28770	50	Nut, water pump cover studs	3
10-28634	51	Screw, grease filler and flushing hole	2
12-20260	52	Washer, grease filler and flushing hole screw	2
10-28653	53	Screw, gear housing vent	1
12-20262	54	Washer, gear housing vent screw	1
12-26334	55	Washer, backing - propeller shaft (1/8)	1
12-26331	56	Washer, backing - propeller shaft (1/32)	1
14-26333	57	Tab Washer, propeller nut	1
11-26335	58	Nut, propeller	1

NOTE: Two different sets of pinion and propeller gears were used on Mark 78 engines. Caution must be taken when replacement of these gears is made because of variation in the gear ratio. Please check serial numbers listed below before any replacements are made.

(*) 14-27 ratio {1145479 to 1145537 incl.
1145583 to 1146371 incl.

(*) 14-28 ratio {1143038 to 1145478 incl.
1145538 to 1145582 incl. & 1146372 and up

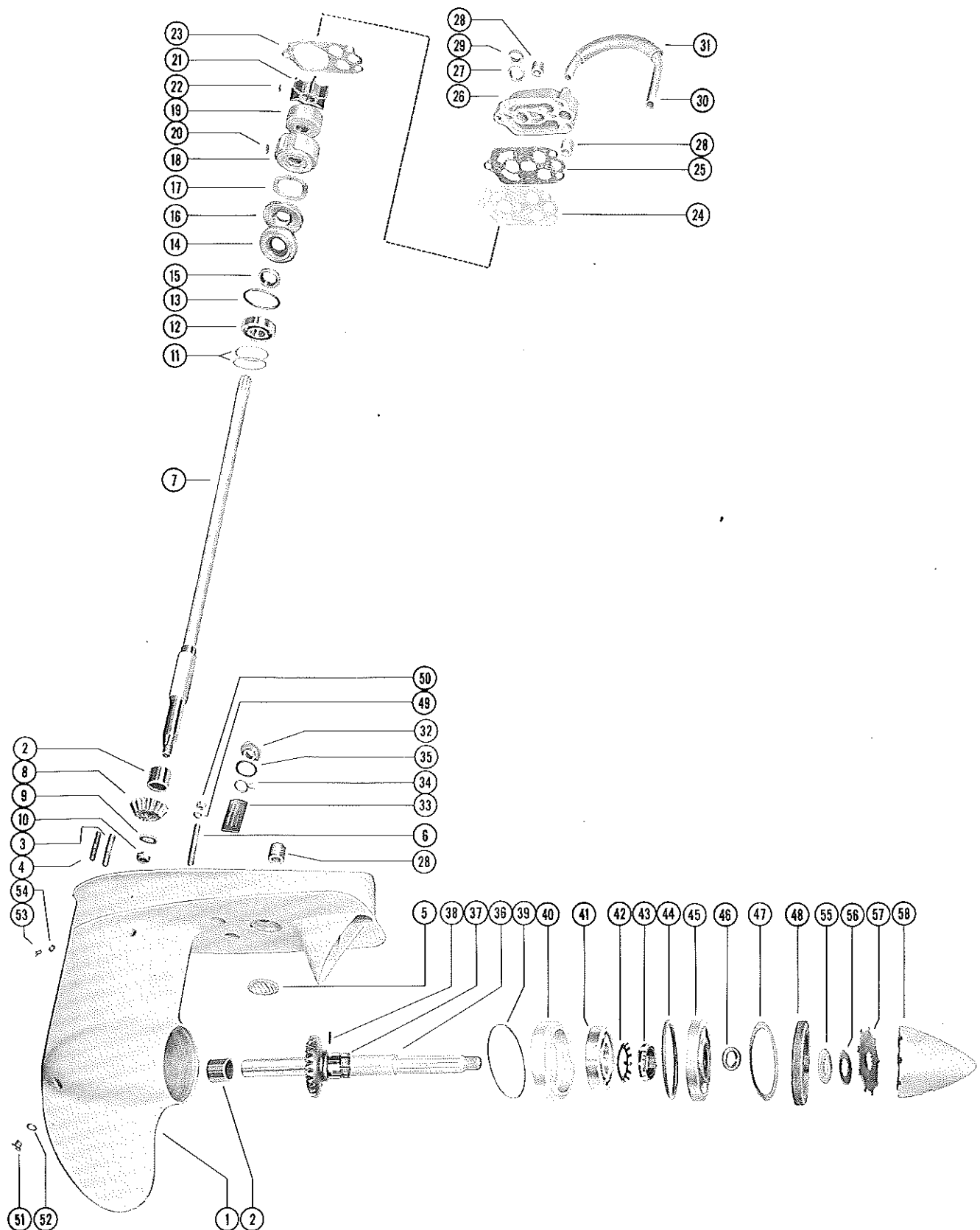
GEAR HOUSING ASSEMBLY, COMPLETE (Left Hand Rotation)

PART NO.	REF. NO.	DESCRIPTION	MARK 75A	MARK 78A
1613-1452A3	-	■ Gear Housing Assembly, Complete (3/8" stud)	1	1
1613-1563A2	-	▲ Gear Housing Assembly, Complete (7/16" stud)	1	1
1613-1452A1	1	■ Gear Housing Assembly (3/8" stud)	1	1
1613-1563A1	1	▲ Gear Housing Assembly (7/16" stud)	1	1
31-20231	2	Bearing, roller - propeller and drive shaft	2	2
16-23071	3	■ Stud, gear housing to drive shaft housing (3/8" x 1 7/8")	2	2
16-29078	3	▲ Stud, gear housing to drive shaft housing (7/16" x 2")	2	2
16-28260	4	■ Stud, gear housing to drive shaft housing (3/8" x 2 7/8")	1	1
16-29079	4	▲ Stud, gear housing to drive shaft housing (7/16" x 3")	1	1
35-26189	5	Screen, water intake	1	1
16-28771	6	Stud, water pump cover fastening	3	3
45-26196	7	Drive Shaft	1	1
43-27889	8	Gear, pinion	1	1
12-22025	9	Washer, pinion gear to retaining nut	1	1
11-20220	10	Nut, pinion gear retaining	1	1
15-20929	11	Shim, drive shaft ball bearing to gear housing (.002-3-5-10)	AR	AR
30-20861	12	Bearing, ball - drive shaft	1	1
25-20266	13	"O" Ring, drive shaft oil seal carrier	1	1
26191A1	14	Oil Seal Carrier Assembly, drive shaft	1	1
26-23300	15	Oil Seal, carrier	1	1
26192	16	Cover, oil seal carrier retainer	1	1
13-26494	17	Washer, wave - retainer cover to oil seal carrier	1	1
46-26188A2	18	Water Pump Cartridge Assembly	1	1
29104	19	Insert, water pump cartridge	1	1
28-28657	20	Key, cartridge locating	1	1
47-26203	21	Impeller, water pump	1	1
17-23733	22	Pin, impeller drive	1	1
27-26187	23	Gasket, lower - water pump cover	1	1
26185	24	Plate, face - water pump cover	1	1
27-26186	25	Gasket, upper - water pump cover	1	1
26219A1	26	Water Pump Cover Assembly	1	1
26-23517	27	Oil Seal	1	1
26-26207	28	Seal, rubber - water inlet tube	2	2
26-26207	28	Seal, rubber - water inlet tube to gear housing	1	1
25-20273	29	Ring, rubber - centrifugal slinger	1	1
32-26489	30	Tube, water intake - lower	1	1
32-26208	31	Sleeve, water intake tube	1	1
22-26220A1	32	Water Valve and Adaptor Assembly	2	2
21-26491	33	Valve, water	2	2
54-26492	34	Clamp, valve to adaptor	2	2
15-21158	35	Shim, valve adaptor to gear housing (.003-5-10)	AR	AR
44-26213	36	Shaft, propeller	1	1
43-28443	37	Gear, propeller	1	1
17-26200	38	Dowel Pin, propeller gear to shaft	1	1
15-26201	39	Shim, adaptor ring to gear housing (.002-3-5)	AR	AR
26202	40	Ring, adaptor - ball bearing	1	1
30-20840	41	Bearing, ball - propeller gear	1	1
14-28445	42	Tab Washer, bearing retaining nut	1	1
11-28444	43	Nut, ball bearing retaining	1	1
25-26228	44	"O" Ring, bearing adaptor	1	1
28442A1	45	Oil Seal Carrier Assembly, propeller shaft	1	1
26-26226	46	Oil Seal, carrier	1	1
12-26193	47	Washer, gear housing cover	1	1
26194	48	Cover, gear housing	1	1
13-26993	49	Lockwasher, water pump cover studs	3	3
11-28770	50	Nut, water pump cover studs	3	3
10-28634	51	Screw, grease filler and flushing hole	2	2
12-20260	52	Washer, grease filler and flushing hole screw	2	2
10-28653	53	Screw, gear housing vent	1	1
12-20262	54	Washer, gear housing vent screw	1	1
12-26334	55	Washer, backing - propeller shaft (1/8)	1	1
12-26331	56	Washer, backing - propeller shaft (1/32)	1	1
14-26333	57	Tab Washer, propeller nut	1	1
11-26335	58	Nut, propeller	1	1

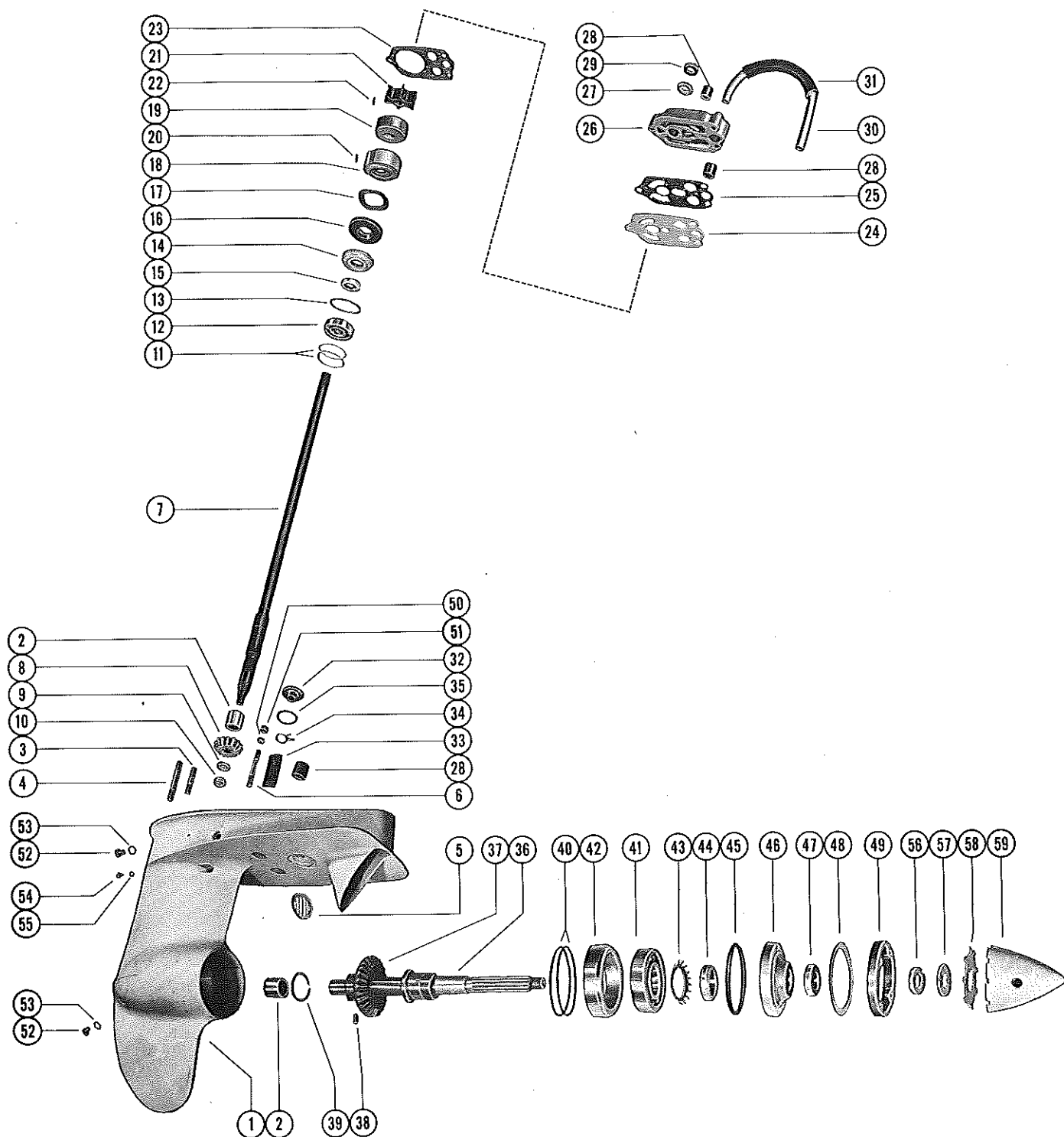
■ Use thru Serial #1111605 on Mark 75A
 ■ Use thru Serial #1210025 on Mark 78A

▲ Started with Serial #1111606 on Mark 75A
 ▲ Started with Serial #1210026 on Mark 78A

GEAR HOUSING ASSEMBLY, COMPLETE (Left Hand Rotation)



GEAR HOUSING ASSEMBLY, COMPLETE (Right Hand Rotation)



GEAR HOUSING ASSEMBLY, COMPLETE (Right Hand Rotation)

PART NO.	REF. NO.	DESCRIPTION	MARK 75A	MARK 78A
1613-1603A2	-	■ Gear Housing Assembly, Complete (3/8" stud)	1	1
1613-1587A2	-	▲ Gear Housing Assembly, Complete (7/16" stud)	1	1
1613-1603A1	1	■ Gear Housing Assembly (3/8" stud)	1	1
1613-1587A1	1	▲ Gear Housing Assembly (7/16" stud)	1	1
31-20231	2	Bearing, roller - propeller and drive shaft	2	2
16-23071	3	■ Stud, gear housing to drive shaft housing (3/8" x 1 7/8")	2	2
16-29078	3	▲ Stud, gear housing to drive shaft housing (7/16" x 2")	2	2
16-28260	4	■ Stud, gear housing to drive shaft housing (3/8" x 2 7/8")	1	1
16-29079	4	▲ Stud, gear housing to drive shaft housing (7/16" x 3")	1	1
35-29073	5	Screen, water intake	1	1
16-28771	6	Stud, water pump cover fastening	3	3
45-26196	7	Drive Shaft	1	1
43-27889	8	Gear, pinion	1	1
12-22025	9	Washer, pinion gear to retaining nut	1	1
11-20220	10	Nut, pinion gear retaining	1	1
15-20929	11	Shim, drive shaft ball bearing to gear housing (.002-3-5-10)	AR	AR
30-20861	12	Bearing, ball - drive shaft	1	1
25-20266	13	"O" Ring, drive shaft oil seal carrier	1	1
26191A1	14	Oil Seal Carrier Assembly, drive shaft	1	1
26-23300	15	Oil Seal, carrier	1	1
26192	16	Cover, oil seal carrier retainer	1	1
13-26494	17	Washer, wave - retainer cover to oil seal carrier	1	1
46-26188A2	18	Water Pump Cartridge Assembly	1	1
29104	19	Insert, water pump cartridge	1	1
28-28657	20	Key, cartridge locating	1	1
47-26203	21	Impeller, water pump	1	1
17-23733	22	Pin, impeller drive	1	1
27-26187	23	Gasket, lower - water pump cover	1	1
26185	24	Plate, face - water pump cover	1	1
27-26186	25	Gasket, upper - water pump cover	1	1
26219A1	26	Water Pump Cover Assembly	1	1
26-23517	27	Oil Seal	1	1
26-26207	28	Seal, rubber - water inlet tube	2	2
26-26207	28	Seal, rubber - water inlet tube to gear housing	1	1
25-20273	29	Ring, rubber - centrifugal slinger	1	1
32-29273	30	Tube, water intake - lower	1	1
32-26208	31	Sleeve, water intake tube	1	1
22-26220A1	32	Water Valve and Adaptor Assembly	2	2
21-26491	33	Valve, water	2	2
54-26492	34	Clamp, valve to adaptor	2	2
15-21158	35	Shim, valve adaptor to gear housing (.003-5-10)	AR	AR
44-28762A1	36	Propeller Shaft Assembly	1	1
43-28761	37	Gear, propeller	1	1
17-26200	38	Dowel Pin, propeller gear to shaft	1	1
53-28757	39	Ring, snap - propeller gear	1	1
15-26201	40	Shim, adaptor ring to gear housing (.002-3-5)	AR	AR
30-28758	41	Bearing, ball - propeller shaft sleeve	1	1
28759	42	Ring, adaptor - ball bearing	1	1
14-28445	43	Tab Washer, bearing retaining nut	1	1
11-28444	44	Nut, ball bearing retaining	1	1
25-26228	45	"O" Ring, bearing adaptor	1	1
28760A1	46	Oil Seal Carrier Assembly, propeller shaft	1	1
26-26226	47	Oil Seal, carrier	1	1
12-26193	48	Washer, gear housing cover	1	1
26194	49	Cover, gear housing	1	1
13-26993	50	Lockwasher, water pump cover studs	3	3
11-28770	51	Nut, water pump cover studs	3	3
10-28634	52	Screw, grease filler and flushing hole	2	2
12-20260	53	Washer, grease filler and flushing hole screw	2	2
10-28653	54	Screw, gear housing vent	1	1
12-20262	55	Washer, gear housing vent screw	1	1
12-26334	56	Washer, backing - propeller shaft (1/8)	1	1
12-26331	57	Washer, backing - propeller shaft (1/32)	1	1
14-26333	58	Tab Washer, propeller nut	1	1
11-26335	59	Nut, propeller	1	1

Serial numbers listed refer to use of 3/8" or 7/16" studs (gear housing to drive shaft housing) as used in production of Mark 75A and Mark 78A engines. When ordering complete right hand rotation gear housing assemblies (or parts) for replacement on left hand rotation engines, please check serial number to insure receiving correct parts.

■ Use thru Serial #1111605 on Mark 75A
 ■ Use thru Serial #1210025 on Mark 78A

▲ Started with Serial #1111606 on Mark 75A
 ▲ Started with Serial #1210026 on Mark 78A

PROPELLERS

Mark 78 (not standard equipment)

PART NUMBER	DESCRIPTION	MATERIAL	PITCH	NO. OF BLADES
48-27148A1	Propeller Assembly	Bronze	7 1/2"	3
48-28484A1	Propeller Assembly	Bronze	8 1/2"	3
48-28272A1	Propeller Assembly	Bronze	9 1/2"	3
48-28271A1	Propeller Assembly	Bronze	11"	3
48-28270A1	Propeller Assembly	Bronze	13"	2
48-28269A1	Propeller Assembly	Bronze	15"	2
48-28268A1	Propeller Assembly	Bronze	17"	2
48-28267A1	Propeller Assembly	Bronze	19"	2
48-28266A1	Propeller Assembly	Bronze	21"	2
48-28655A1	Propeller Assembly	Bronze	23"	2

Mark 75A (not standard equipment)

PART NUMBER		DESCRIPTION	MATERIAL	PITCH	NO. OF BLADES
LEFT HAND ROTATION	RIGHT HAND ROTATION				
48-27148A1		Propeller Assembly	Bronze	7 1/2"	3
48-28484A1		Propeller Assembly	Bronze	8 1/2"	3
48-26507A1	48-29021A1	Propeller Assembly	Bronze	9 1/2"	3
48-28271A1	48-29020A1	Propeller Assembly	Bronze	11"	3
48-26493A1		Propeller Assembly	Aluminum	11"	3
48-26506A1	48-29019A1	Propeller Assembly	Bronze	13"	2
48-26505A1	48-29018A1	Propeller Assembly	Bronze	15"	2
48-29295A1		Propeller Assembly	Aluminum	15"	2
48-26504A1	48-29017A1	Propeller Assembly	Bronze	17"	2
48-29294A1		Propeller Assembly	Aluminum	17"	2
48-28267A1	48-29016A1	Propeller Assembly	Bronze	19"	2
48-28266A1	48-29015A1	Propeller Assembly	Bronze	21"	2
48-28655A1	48-29014A1	Propeller Assembly	Bronze	23"	2

Mark 78A (not standard equipment)

PART NUMBER		DESCRIPTION	MATERIAL	PITCH	NO. OF BLADES
LEFT HAND ROTATION	RIGHT HAND ROTATION				
48-27148A1		Propeller Assembly	Bronze	7 1/2"	3
48-28484A1		Propeller Assembly	Bronze	8 1/2"	3
48-28272A1	48-29021A1	Propeller Assembly	Bronze	9 1/2"	3
48-28271A1	48-29020A1	Propeller Assembly	Bronze	11"	3
48-28270A1	48-29019A1	Propeller Assembly	Bronze	13"	2
48-28269A1	48-29018A1	Propeller Assembly	Bronze	15"	2
48-29295A1		Propeller Assembly	Aluminum	15"	2
48-28268A1	48-29017A1	Propeller Assembly	Bronze	17"	2
48-29294A1		Propeller Assembly	Aluminum	17"	2
48-28267A1	48-29016A1	Propeller Assembly	Bronze	19"	2
48-28266A1	48-29015A1	Propeller Assembly	Bronze	21"	2
48-28655A1	48-29014A1	Propeller Assembly	Bronze	23"	2

REMOTE CONTROL, STARTER MOTOR AND FUEL TANK

For reference to Remote Control, Starter Motor, Fuel Tank, Etc. not shown in this parts list, please refer to the section in your Accessory Parts List as indicated below:

		<u>Refer to Section</u>
1225-1529A7	Fuel Tank Assembly	"D"
29479A4	Fuel Line Assembly	"D"
20015-__S	Remote Control Cable Assembly	"B"
28262A__	Electric Remote Control Assembly	"B"
50-28317	# Starter Motor Assembly	"E"
50-29037	* Starter Motor Assembly	"E"

Use thru Serial #1131105 on Mark 75AE.

* Started with Serial #1131106 on Mark 75AE.

ACCESSORIES

Mark 78, Mark 75A and Mark 78A Parts List Complete	● 90-32912
Gasket Set (motor overhaul)	27-28359
Bulk Line (distributor vent tubes) per foot	32-26329
Bulk Line (jumper lead sleeves) per foot	32-26626
Battery Box Assembly (#27892 Battery)	91-32144
Glue (blanket adhesive)	92-25234
Decal Set (Mark 78)	37-28360
Decal Set (Mark 75A and Mark 78A) colored engines	37-28988
Decal Set (Mark 75A and Mark 78A) white engines	37-28989
Decal Solution (pint bottle)	92-25143
Gasket and Packing Set (Carburetor AJ-53A and AJ-55A)	1399-1145
Gasket and Packing Set (Carburetor KA-2A)	1399-1477
Repair Parts Kit (Carburetor AJ-53A)	1399-1146
Repair Parts Kit (Carburetor AJ-55A)	1399-1625
Repair Parts Kit (Carburetor KA-2A)	1399-1478
Carburetor Adjusting Propeller	48-28369

MARK 78L, MARK 75AL AND MARK 78AL PARTS LIST

All parts listed below are for the Mark 78L, Mark 75AL and Mark 78AL engines, and are used in place of the Mark 78, Mark 75A and Mark 78A corresponding parts as shown. For reference to any other corresponding part on the Mark 78L, Mark 75AL and Mark 78AL, please refer to the preceding pages of this parts list.

SERIAL NUMBERS:

Mark 78L 1145538 thru 1210615

PART NO.	DESCRIPTION	REPLACES	MARK 78L
1447-1448A1	Swivel Bracket Assembly	1446-1443A3	1
17-28254A1	Swivel Pin Assembly	17-28211A1	1
28285	Rod, push - reverse lock	28206	1
1533-1571A1	Housing, drive shaft	1529-1451A2	1
32-27867	Tube, water inlet	32-26490	1
45-27866	Drive Shaft	45-26196	1
17-28274	Pin, lower shock mounting (see note below)	17-28207	2
55-28414	Pin, lower shock mounting	55-28417	2
10-28424	Screw, lower shock pin	10-28263	2
11-20361	Nut, lower shock fastening screw	-----	2
1613-1452A4	Gear Housing Assembly, Complete	1613-1452A3	1

NOTE: 17-28274 Lower Shock Mounting Pin, as listed above, is no longer available and is replaced by 55-28414A1 Lower Shock Mounting Pin Assembly (2 per engine). This assembly includes the following parts:

55-28414	Pin, lower shock mounting	1
10-28450	Screw, lower shock pin fastening	1
12-28421	Washer, lower bushing retainer (outer)	1

SERIAL NUMBERS:

Mark 75AL. 1110603 and up

PART NO.	DESCRIPTION	REPLACES	MARK 75AL
1441-1533A1	Swivel Bracket Assembly	1442-1401A1	1
17-28254A1	Swivel Pin Assembly	17-28211A1	1
28285	Rod, push - reverse lock	28206	1
1533-1412A1	Drive Shaft Housing Assembly (3/8" stud)	1529-1575A2	1
1533-1565A1	Drive Shaft Housing Assembly (7/16" stud)	1529-1564A2	1
32-27867	Tube, water inlet	32-26490	1
45-27866	Drive Shaft	45-26196	1
1613-1452A4	*Gear Housing Assembly, Complete (3/8")	1613-1452A3	1
1613-1563A5	*Gear Housing Assembly, Complete (7/16")	1613-1563A2	1
1613-1603A3	#Gear Housing Assembly, Complete (3/8")	1613-1603A2	1
1613-1587A3	#Gear Housing Assembly, Complete (7/16")	1613-1587A2	1

* Left Hand Rotation

Right Hand Rotation

SERIAL NUMBERS:

Mark 78AL. 1210616 and up

(Starting serial number for 7/16" studs on drive shaft housing and gear housing is 1211247 and up.)

PART NO.	DESCRIPTION	REPLACES	MARK 78AL
1447-1448A1	Swivel Bracket Assembly	1446-1443A3	1
17-28254A1	Swivel Pin Assembly	17-28211A1	1
28285	Rod, push - reverse lock	28206	1
1533-1456A1	Drive Shaft Housing Assembly (3/8" stud)	1529-1451A2	1
1533-1571A1	Drive Shaft Housing Assembly (7/16" stud)	1529-1574A2	1
32-27867	Tube, water inlet	32-26490	1
45-27866	Drive Shaft	45-26196	1
55-28414	Pin, lower shock mounting	55-28417	2
10-28424	Screw, lower shock pin	10-28263	2
11-20361	Nut, lower shock fastening screw	-----	2
1613-1452A4	*Gear Housing Assembly, Complete (3/8")	1613-1452A3	1
1613-1563A5	*Gear Housing Assembly, Complete (7/16")	1613-1563A2	1
1613-1603A3	#Gear Housing Assembly, Complete (3/8")	1613-1603A2	1
1613-1587A3	#Gear Housing Assembly, Complete (7/16")	1613-1587A2	1

* Left Hand Rotation

Right Hand Rotation