

KH7, MARK 15 AND MARK 20 PARTS LIST

SERIAL NUMBERS:

KH7	500022 and up
Mark 15	595628 and up
Mark 20	700000 and up

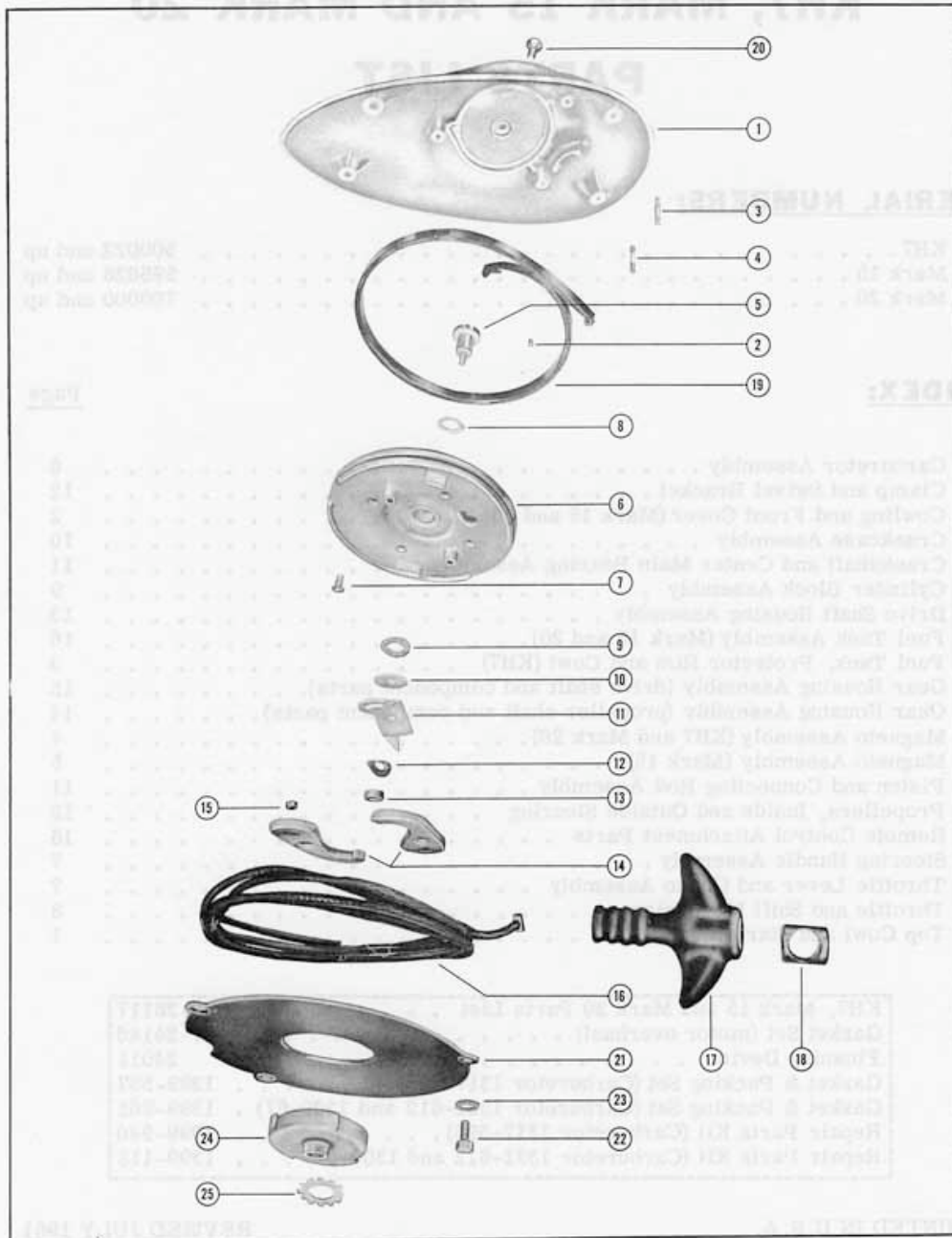
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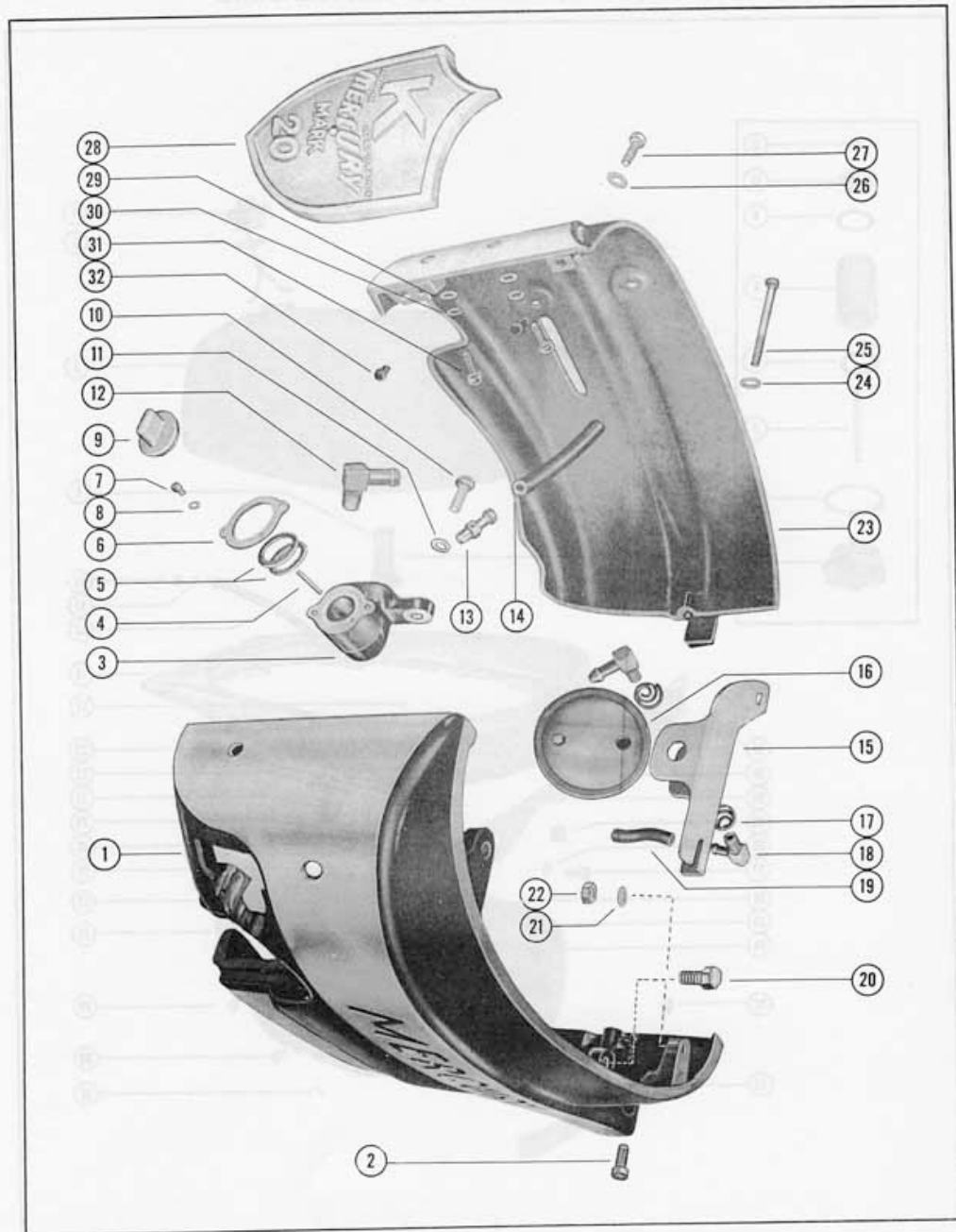
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TOP COWL AND STARTER



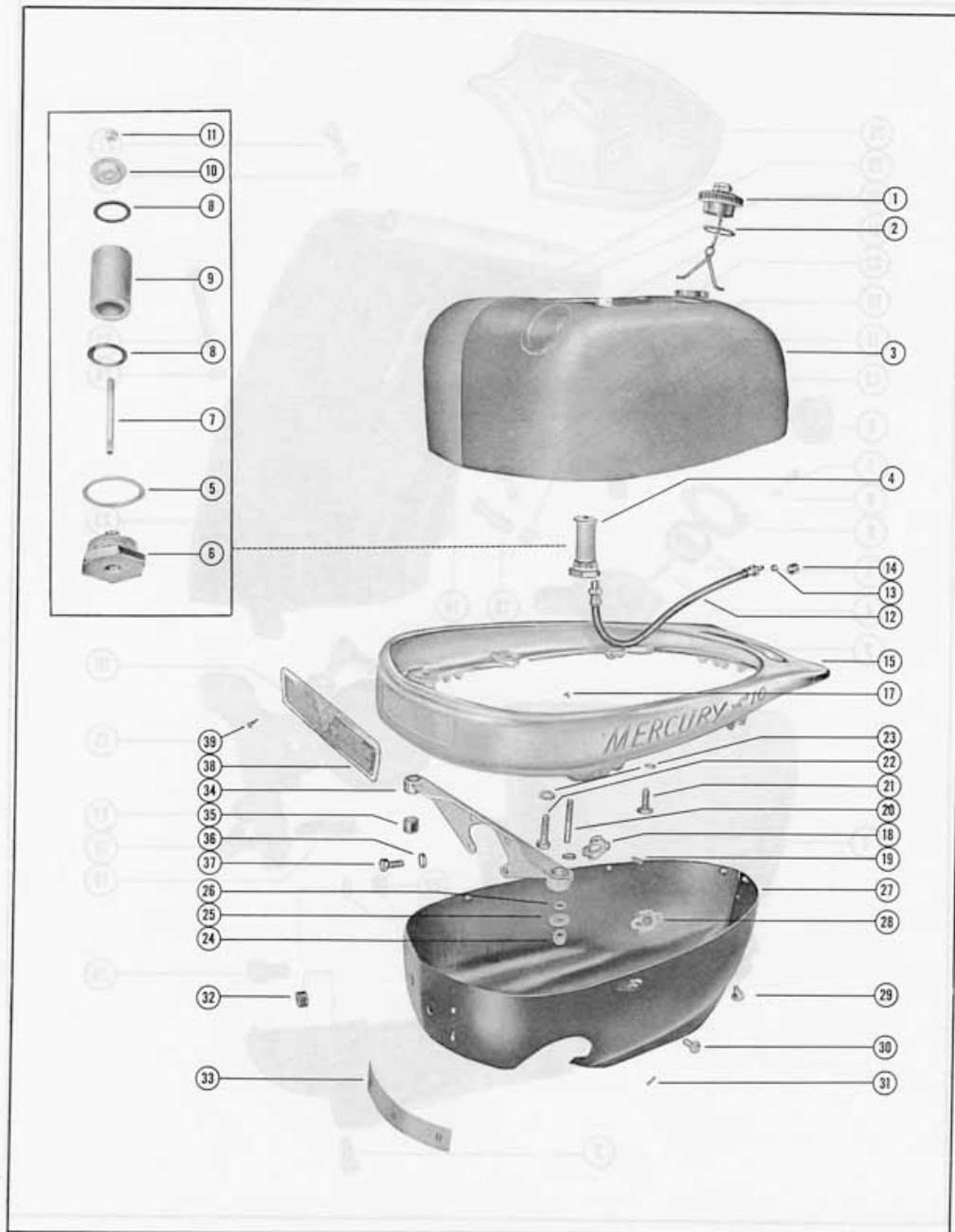
COWLING AND FRONT COVER



FUEL TANK, PROTECTOR RIM AND COWL

PART NO.	REF. NO.	DESCRIPTION	KH7
36-23338A1	1	Fuel Tank Cap Assembly	1
27-23331	2	Gasket, fuel tank cap	1
1216-630	3	Tank, fuel	1
35-23342A1	4	Fuel Filter Assembly	1
27-23211	5	Gasket, fuel filter to fuel tank	1
11-23263	6	Nut, adaptor - fuel filter	1
16-21451	7	Stud, fuel filter	1
12-21464	8	Washer, rubber	2
35-23342	9	Element, fuel filter	1
21460	10	End Cap, fuel filter	1
11-20190	11	Nut, fuel filter stud	1
32-23439A1	12	Fuel Line Assembly	1
22-21685	13	Sleeve, compression - fuel line	1
11-21113	14	Nut, compression - fuel line sleeve	1
23413A3	15	Protector Rim Assembly	1
10-20314	17	Screw, drive - protector rim	2
11-22684	18	Fastener, spring unit	6
17-23336	19	Rivet, fastener to protector rim	12
16-20761	20	Stud, protector rim mounting	4
10-21625	21	Screw, protector rim to fuel tank (center and rear lugs)	4
10-20653	22	Screw, protector rim to fuel tank (front lugs)	2
13-26992	23	Lockwasher, protector rim screws	6
11-20361	24	Nut, protector rim mounting stud	4
12-20346	25	Washer, protector rim mounting stud	4
12-20028	26	Washer, protector rim mounting stud	8
139-643A1	27	Cowl Assembly	1
11-22684	28	Fastener, spring unit	1
17-22685	--	Rivet, fastener to cowl	2
16-23334	29	Stud, cowl mounting (1/2")	1
16-23335	30	Stud, cowl mounting (11/16")	6
17-23333	31	Pin, cross - cowl mounting studs	7
25-22683	32	Grommet, choke rod	1
37-23478	33	Decal, forward - neutral - reverse	1
21870A3	--	Fuel Tank Bracket Assembly, Complete	1
21870A1	34	Fuel Tank Bracket Assembly	1
23-26348	35	Bushing, fuel tank bracket	2
13-26992	36	Lockwasher, fuel tank bracket screw	4
10-21548	37	Screw, fuel tank bracket to crankcase	4
38-23483	38	Serial Plate	1
10-20314	39	Screw, drive - serial plate mounting	4

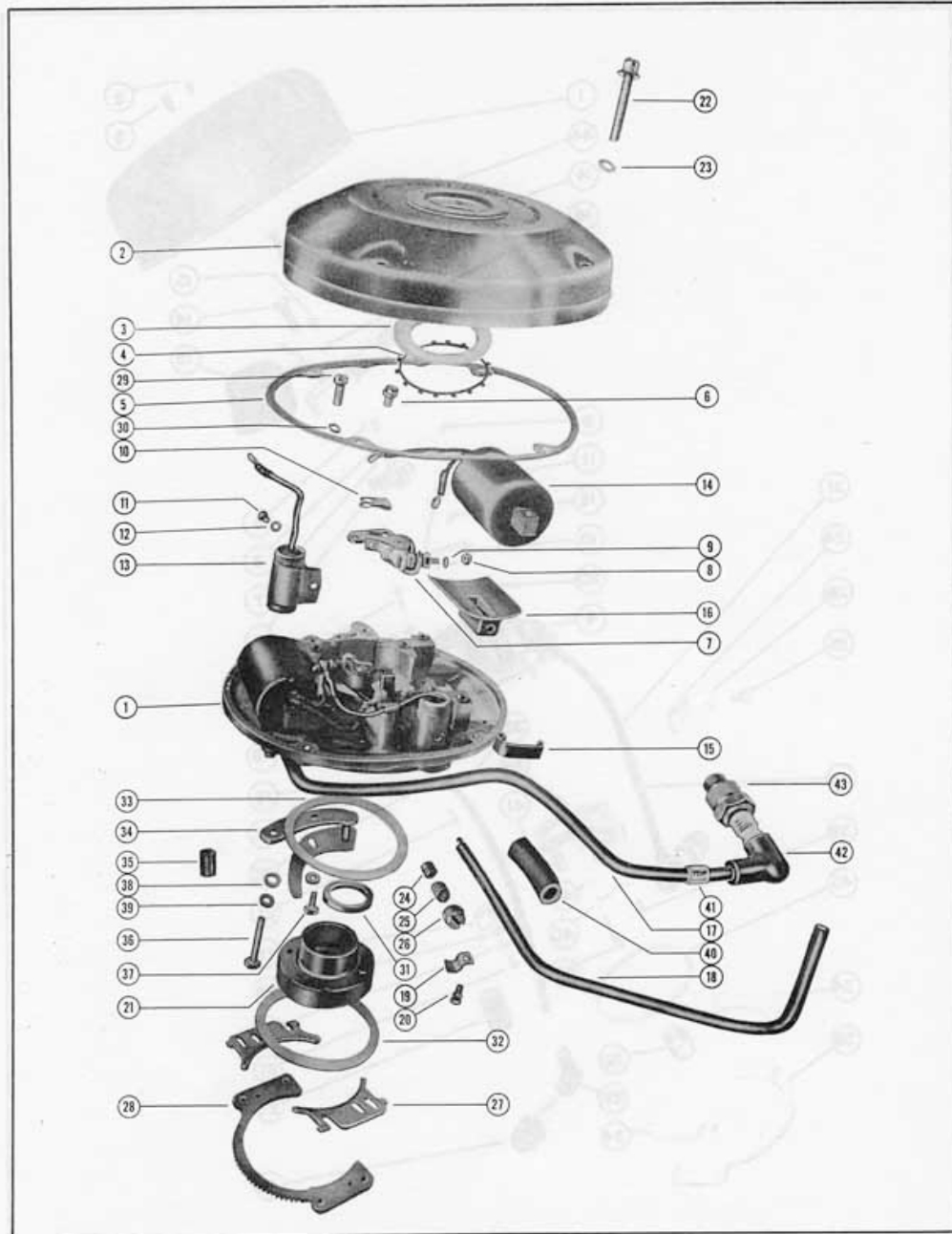
FUEL TANK, PROTECTOR RIM AND COWL



MAGNETO ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 20
315-764A1	-	Magneto Assembly	1	-
301-73	-	Magneto Assembly	-	1
20598	-	Stator Plate Assembly	1	1
399-751	1	Plate, stator	1	-
399-119	1	Plate, stator	-	1
399-131	2	Cover, magneto	1	1
12-20885	3	Washer, felt	1	1
399-132	4	Ring, lock	1	1
27-20600	5	Gasket, magneto cover	1	1
10-20879	6	Screw and Lockwasher, breaker mounting	2	2
10-20880	-	Screw and Lockwasher, breaker adjusting	2	2
399-121A1	7	Breaker Assembly	2	2
11-20881	8	Nut, terminal	2	2
12-20878	9	Washer, terminal	2	2
399-124	10	Clip, wire support	2	2
10-20883	11	Screw, condenser attaching	2	2
13-20882	12	Lockwasher, condenser screw	2	2
399-123	13	Condenser	2	2
399-125	14	Coil, ignition	2	2
399-126	15	Clip, coil	4	4
399-129	16	Insulator, high tension lead	2	2
399-128	17	Lead, high tension (long)	1	1
399-127	18	Lead, high tension (short)	1	1
399-130	19	Clamp, high tension lead	2	2
10-20884	20	Screw and Lockwasher, lead clamp	2	2
20599	21	Rotor	1	1
10-20602	22	Screw and Lockwasher, cover to stator plate	4	4
12-20603	23	Washer, cover screw	4	4
201-77	--	Flywheel	1	1
28-20625	--	Key, flywheel	1	1
24069	--	Dampener, flywheel	1	1
10-24070	--	Screw, flywheel dampener	3	3
20604	24	Plug, magneto pilot friction	2	2
24-20609	25	Spring, friction plug	2	2
10-20608	26	Screw, spring tension adjusting	2	2
15-20610	--	Shim, magneto hold down spring (.005-20-25)	-	AR
24-20569	27	Spring, magneto hold down	2	2
43-20611	28	Gear, sector - magneto drive	1	1
10-20293	29	Screw, sector gear mounting	4	4
13-26996	30	Lockwasher, sector gear screw	4	4
12-20628	31	Washer, rubber - rotor to flywheel	1	1
15-20627	32	Shim, hold down spring to crankcase	-	1
15-23097	--	Shim, stator plate to crankcase (.005-10)	AR	-
15-20626	33	Shim, stator plate to crankcase	1	1
20615A1	34	Throttle Control Cam Assembly	1	1
23-20618	35	Spacer, throttle control cam	1	1
10-20619	36	Screw, control cam to magneto (long)	1	1
10-20616	37	Screw, control cam to magneto (short)	1	1
12-20028	38	Washer, control cam screw (long)	1	1
13-26991	39	Lockwasher, control cam screws	2	2
23-20622	40	Bushing, rubber - high tension leads	1	1
20623	41	Marker, high tension lead (top)	1	1
24-22063	--	Spring, high tension lead protector	-	1
12-20603	--	Washer, protector spring	-	1
20119	42	Protector, spark plug	2	2
33-20127	43	Spark Plug	2	2

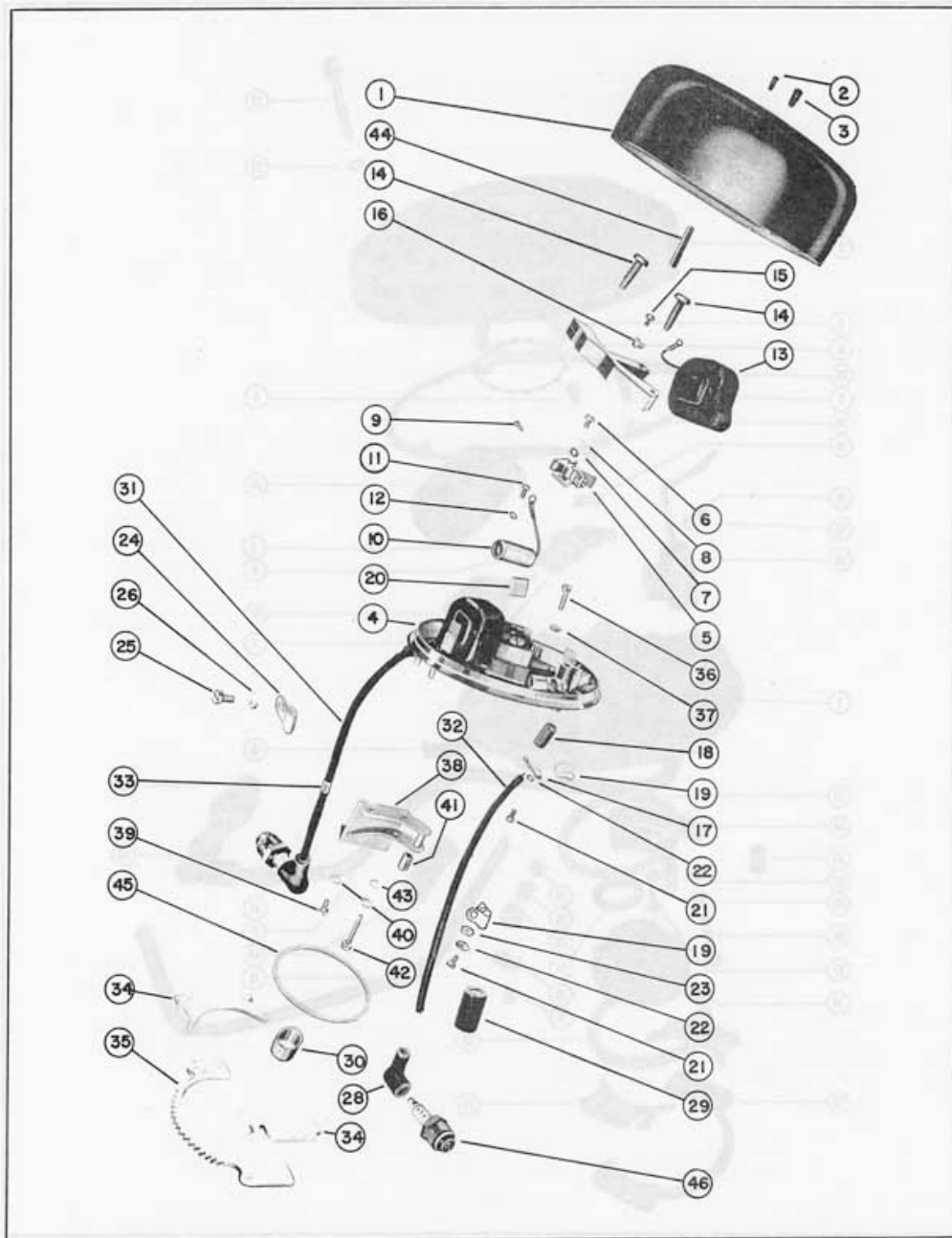
MAGNETO ASSEMBLY



MAGNETO ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	MK15
316-771	-	Magneto Assembly	1
398-739	1	Flywheel	1
24187	2	Plug, flywheel (small)	3
24188	3	Plug, flywheel (large)	3
398-770A1	-	Stator Plate Assembly, Complete	1
398-770	4	Stator Plate and Core Assembly	1
398-174	5	Breaker Point Assembly	2
10-21133	6	Screw, fixed contact	2
13-21134	7	Lockwasher, fixed contact screw	2
12-21135	8	Washer, fixed contact screw	2
10-23976	9	Screw, breaker point connection	2
398-733	-	Insulator, breaker point connection screw	2
398-713	10	Condenser	2
10-21133	11	Screw, condenser mounting	2
13-21134	12	Lockwasher, condenser screw	2
398-716	13	Coil, ignition	2
10-23556	14	Screw, core to stator plate	4
10-21130	15	Screw, ground terminal	2
398-732	16	Clip, primary lead	2
398-720	17	Clamp, lead wire	2
32-21137	18	Tube, lead wire	2
398-182	19	Clamp, plastic - lead wire	2
398-723	20	Wick, felt	2
10-21139	21	Screw, lead wire clamp	3
13-21144	22	Lockwasher, lead wire clamp screw	3
12-20670	23	Washer, lead wire clamp screw	1
54-21730	24	Clip, lead wire	1
10-21140	25	Screw, lead wire clip	1
12-20028	26	Washer, lead wire clip screw	1
20119	28	Protector, spark plug	2
23-20622	29	Bushing, lead wires	1
398-241	30	Cam	1
398-178	31	Wire, lead (top)	1
398-177	32	Wire, lead (bottom)	1
20623	33	Marker, lead wire (top)	1
24-20569	34	Spring, magneto hold down	2
43-20611	35	Gear, sector	1
10-25157	36	Screw, sector gear to stator plate	4
13-26996	37	Lockwasher, sector gear screw	4
20615A1	38	Throttle Control Cam Assembly	1
10-20616	39	Screw, control cam to magneto (short)	1
13-26991	40	Lockwasher, control cam screws	2
23-20618	41	Spacer, throttle control cam	1
10-20619	42	Screw, control cam to magneto (long)	1
12-20028	43	Washer, control cam screw	1
28-21614	44	Key, flywheel	1
15-20626	45	Shim, stator plate to crankcase	1
15-23097	--	Shim, stator plate (.005-10)	AR
33-22805	46	Spark Plug	2

MAGNETO ASSEMBLY

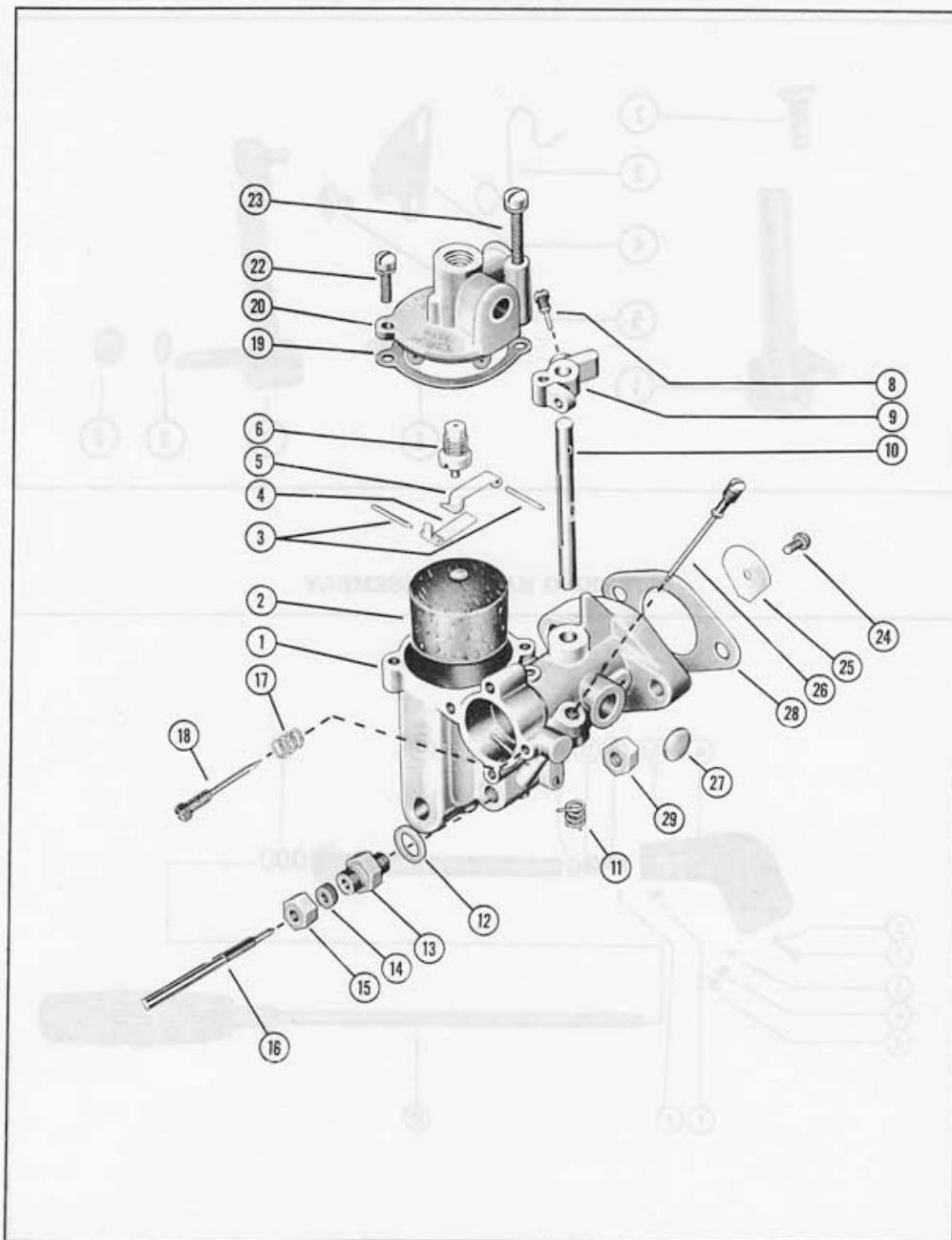


CARBURETOR ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
1317-595	1	Carburetor Assembly, Complete	1	-	-
1321-612	1	Carburetor Assembly, Complete	-	1	-
1300-67	1	Carburetor Assembly, Complete	-	-	1
1399-570	2	Float	1	-	-
18-21579	-	Cotter Pin, float retaining	2	-	-
1399-110A1	2	Float Assembly	-	1	1
17-20853	3	Pin, float lever pinion	-	2	2
1399-102	4	Lever, float (lower)	-	1	1
1399-101	5	Lever, float (upper)	-	1	1
1399-605	6	Inlet Needle and Seat	1	-	-
27-23284	-	Gasket, inlet needle and seat	1	-	-
10-23285	-	Screw, inlet needle and seat channel plug	1	-	-
27-23284	-	Gasket, channel plug screw	1	-	-
1399-1138	6	Inlet Needle, Seat and Gasket	-	1	1
27-20851	-	Gasket, inlet seat	-	1	1
10-20847	8	Screw, throttle stop lever	1	1	1
1399-97	9	Lever, throttle stop	1	1	1
1399-531	10	Shaft, throttle	1	-	-
1399-112	10	Shaft, throttle	-	1	1
24-23191	11	Spring, throttle shaft return	1	-	-
24-20869	11	Spring, throttle shaft return	-	1	1
27-20848	12	Gasket, main adjustment screw gland	1	1	1
1399-94	13	Gland, main adjustment screw	1	1	1
1399-108	14	Packing, main adjustment screw	1	1	1
11-20849	15	Nut, main adjustment screw	1	1	1
1399-604	16	Screw, main adjustment	1	-	-
1399-113	16	Screw, main adjustment	-	1	1
24-20856	17	Spring, idle adjustment screw	1	1	1
1399-619	18	Screw, idle adjustment	1	1	1
1399-99	19	Gasket, float bowl cover	1	1	1
1399-585	20	Cover, float bowl	1	-	-
1399-927	20	Cover, float bowl	-	1	1
1399-215	--	Screen, inlet connection	-	1	1
10-20854	22	Screw, float bowl cover (short)	1	1	1
10-20857	23	Screw, float bowl cover (long)	-	1	1
10-21471	24	Screw and Lockwasher, throttle shutter	1	-	-
10-20858	24	Screw and Lockwasher, throttle shutter	-	1	1
1399-107	25	Shutter, throttle	1	-	1
1399-573	25	Shutter, throttle	-	1	-
1399-572	26	Tube, by-pass	1	-	-
1399-96	26	Tube, by-pass	-	1	1
19-20011	27	Welch Plug, body channel	1	1	1
10-20870	--	Screw, plug - body channel	-	1	1
1399-95	--	Lead Shot, body channel	2	-	-
22-20781	--	Elbow, fuel line to carburetor	-	1	1
*22-20380	--	Connector, fuel line to carburetor	-	-	1
27-20183	28	Gasket, carburetor flange	1	1	1
11-20184	29	Nut, carburetor mounting stud	2	2	2
20-23277A1	--	Fuel Shut-Off Valve Assembly	1	-	-
12-23280	--	Washer, fuel shut-off valve packing gland	1	-	-
23281	--	Packing, fuel shut-off valve	1	-	-
11-23282	--	Nut, shut-off valve packing gland	1	-	-
17-20685	--	Pin, groove - shut-off valve knob retaining	1	-	-
1399-587	--	Gasket and Packing Seat (1317-595)	1	-	-
1399-961	--	Gasket and Packing Seat (1321-612 & 1300-67)	-	1	1
1399-940	--	Repair Parts Kit (1317-595)	1	-	-
1399-118	--	Repair Parts Kit (1321-612 & 1300-67)	-	1	1

* Used on all Mark 20 motors above Serial #753906.

CARBURETOR ASSEMBLY



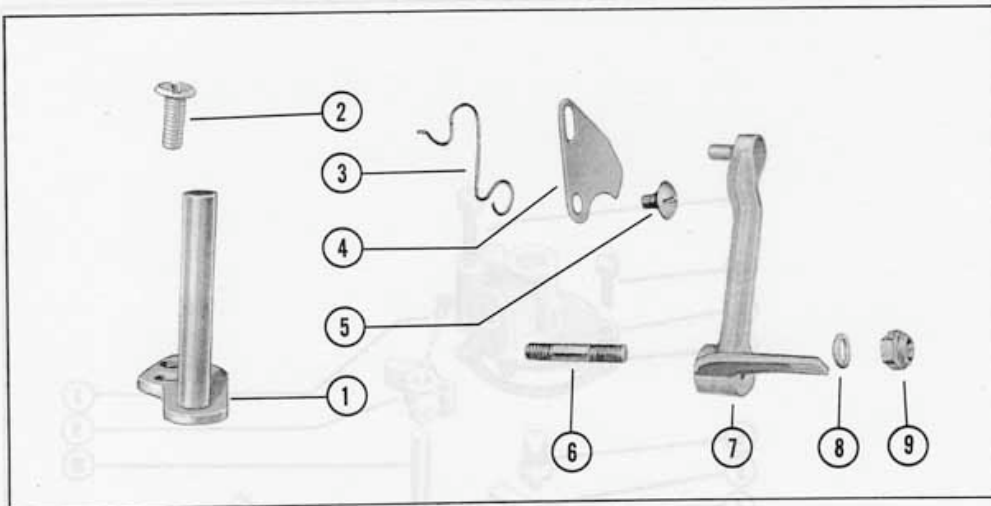
THROTTLE LEVER AND CHOKE ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
17-20588A1	1	Throttle Lever Assembly	1	1	1
10-20597	2	Screw, throttle lever to carburetor	1	1	1
20178A1	-	Choke Lever Assembly	1	-	-
24-20579	3	Spring, choke shutter	1	1	1
20173	4	Shutter, choke	1	1	1
10-20578	5	Screw, choke shutter	1	1	1
22454	-	Stud, choke lever	1	-	-
13-26995	-	Lockwasher, choke lever stud	1	-	-
18-20180	-	Cotter Pin, choke rod retaining	1	-	-
22451	-	Rod, choke	1	-	-
23298	-	Knob, choke rod	1	-	-
17-20648	-	Pin, choke rod to choke lever	1	-	-
16-20581	6	Stud, choke lever	-	1	1
20582	7	Lever, choke	-	1	1
12-20583	8	Washer, choke lever stud	-	1	1
11-20586	9	Nut, choke lever stud	-	1	1

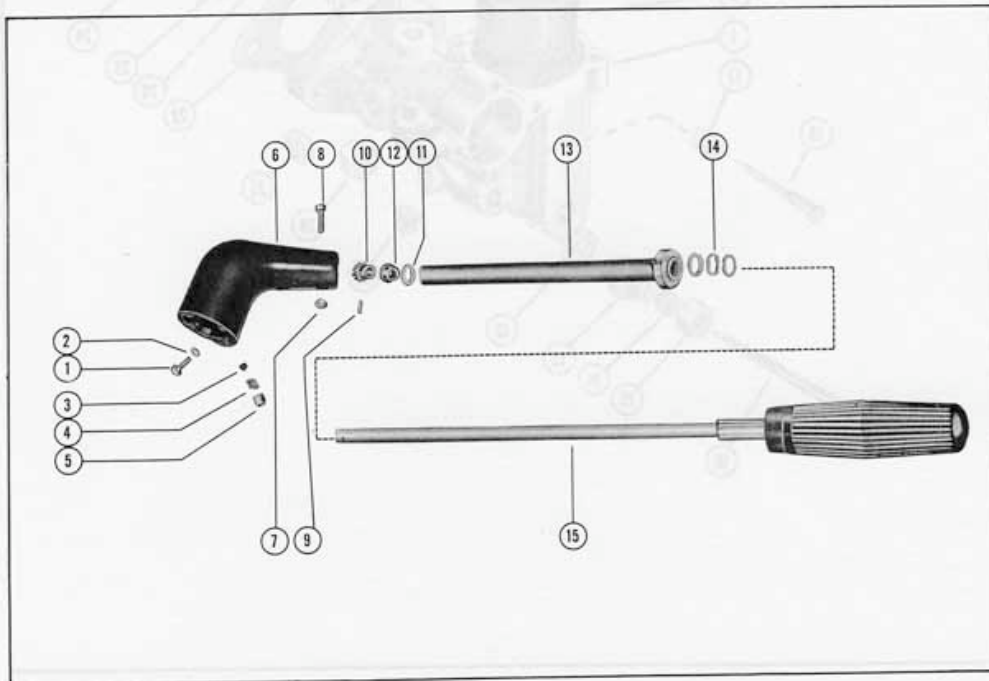
STEERING HANDLE ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
10-20031	1	Screw, steering handle locating	1	1	1
13-26992	2	Lockwasher, steering handle locating screw	1	1	1
20737	3	Plug, friction	1	1	1
24-20609	4	Spring, friction plug	1	1	1
10-20608	5	Screw, friction plug	1	1	1
21648	6	Elbow, steering handle	1	-	-
20735	6	Elbow, steering handle	-	1	1
11-20361	7	Nut, steering handle clamp screw	1	1	1
10-20736	8	Screw, steering handle clamp	1	1	1
20591A2	-	Steering Handle Assembly	1	1	1
17-20728	9	Pin, groove - pinion gear	1	1	1
43-23221	10	Gear, pinion - steering handle shaft	1	1	1
15-20729	11	Shim, steel (.010)	AR	AR	AR
23502A1	--	Steering Handle Tube Assembly (12 1/2" long)	1	-	-
20731A1	--	Steering Handle Tube Assembly (10 1/2" long)	1	1	1
23-20733	12	Bushing, steering handle tube	1	1	1
20731	13	Tube, steering handle (10 1/2" long)	1	1	1
20732	--	Ring, pointer - steering handle tube	1	1	1
13-20730	14	Washer, wave	1	1	1
20591A6	15	Handle Grip and Shaft Assembly (18 1/2" long)	1	-	-
20591A1	15	Handle Grip and Shaft Assembly (16 1/2" long)	1	1	1
17-20728	--	Pin, groove - steering handle shaft	1	1	1

THROTTLE LEVER AND CHOKE ASSEMBLY



STEERING HANDLE ASSEMBLY



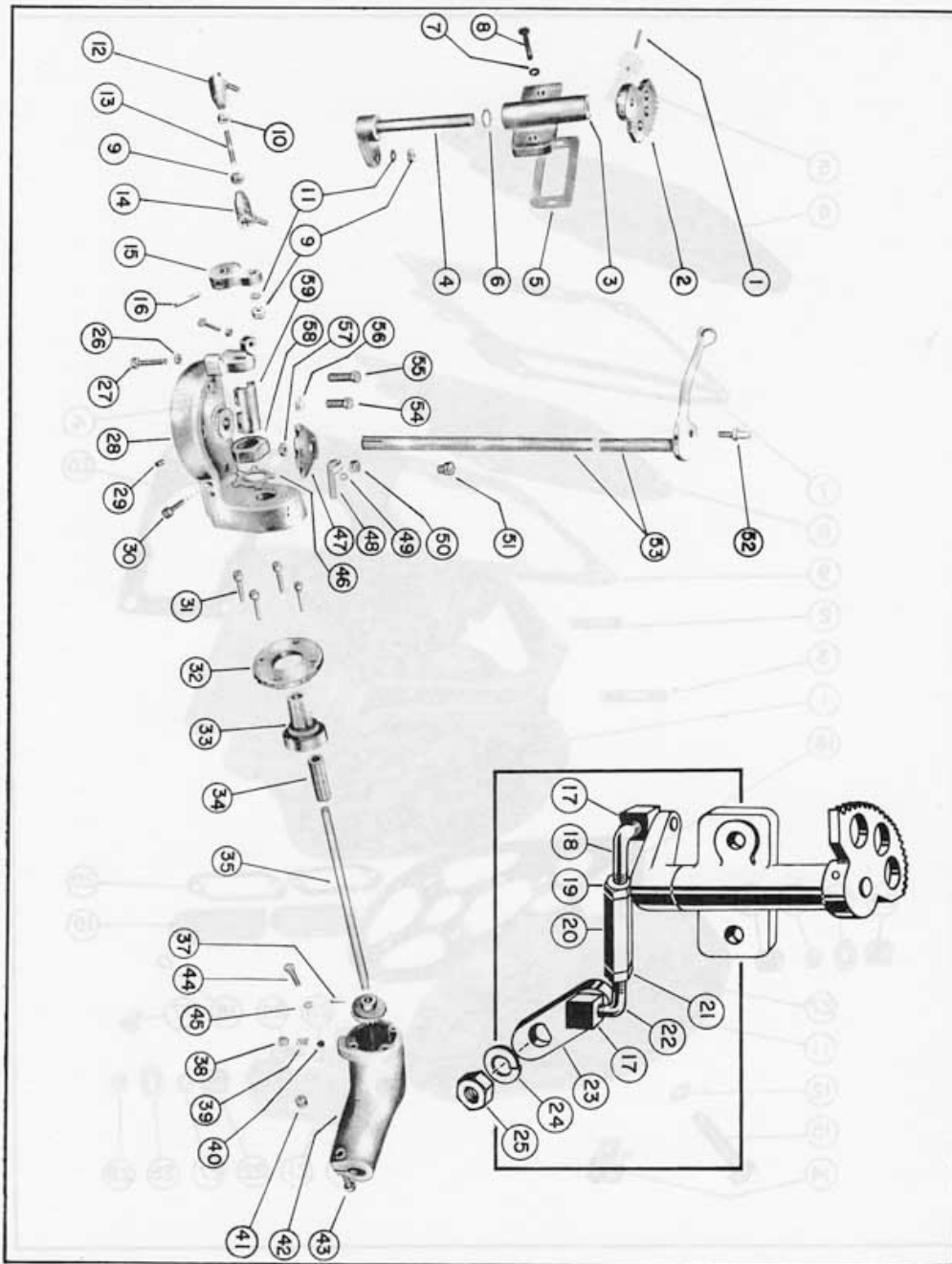
THORTTLE AND SHIFT MECHANISM

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
20470A4	-	Vertical Shaft Bracket Assembly	1	1	-
*20470A1	-	Vertical Shaft Bracket Assembly	-	-	1
#22689A2	-	Vertical Shaft Bracket Assembly, Complete	-	-	1
17-20000	1	Pin, groove - sector gear	1	1	1
43-20471	2	Gear, sector - drive	1	1	1
*20470	3	Bracket, vertical shaft	1	1	1
#22689A1	3	Vertical Shaft Bracket Assembly	-	-	1
#23-22571	-	Bushing, vertical shaft bracket	-	-	2
21109A1	4	Vertical Shaft Assembly	1	1	-
20022A1	4	Vertical Shaft Assembly	-	-	1
15-20473	6	Shim, vertical shaft to bracket (.010-20)	AR	AR	AR
15-20475	5	Shim, vertical shaft bracket to crankcase (.005-10)	AR	AR	AR
13-20147	7	Lockwasher, vertical shaft bracket screw	2	2	-
12-20028	-	Washer, vertical shaft bracket screw	-	-	2
10-20474	8	Screw, vertical shaft bracket to crankcase 10-28636	2	2	2
11-20645	9	Nut, ball joint connection (right hand thread)	3	3	-
11-24655	10	Nut, ball joint connection (left hand thread)	1	1	-
13-20040	11	Lockwasher, ball joint connection	2	2	-
23499	12	Ball Joint (left hand thread)	1	1	-
16-23500	13	Stud, ball joint connecting	1	1	-
23498	14	Ball Joint (right hand thread)	1	1	-
23497	15	Lever, cross shaft	1	-	-
24412	15	Lever, cross shaft	-	1	-
17-20000	16	Pin, groove - cross shaft lever	1	1	-
20752	17	Swivel, throttle control linkage	-	-	2
20753	18	Rod, left hand thread	-	-	1
11-20754	19	Nut, connector sleeve (left hand thread)	-	-	1
20755	20	Sleeve, rod connector	-	-	1
11-20013	21	Nut, connector sleeve (right hand thread)	-	-	1
20756	22	Rod, right hand thread	-	-	1
20757	23	Lever, cross shaft	-	-	1
13-20758	24	Lockwasher, cross shaft nut	-	-	1
11-20087	25	Nut, cross shaft	-	-	1
11-20645	26	Nut, throttle adjusting screw	2	2	2
10-20644	27	Screw, throttle adjusting	2	2	2
20548	28	Bracket, throttle & shift lock	1	1	1
10-20716	29	Screw, set - throttle & shaft lock drum	1	1	1
10-20293	30	Screw, detent spring mounting	2	1	1
10-20646	30	Screw, detent spring mounting	-	1	1
10-20738	31	Screw, cover plate to elbow	4	4	4
20744	32	Plate, cover - elbow	1	1	1
23-20743	33	Bushing, cross shaft	1	1	1
23-21646	--	Spacer	1	-	-
20742	34	Tube, spacer	-	1	1
23524A1	35	Cross Shaft Assembly	-	-	-
20740A1	35	Cross Shaft Assembly	-	1	1
17-20728	37	Pin, groove - bevel gear to cross shaft	1	1	1
20737A1	--	Friction Plug Assembly	1	1	1
10-20608	38	Screw, friction plug	1	1	1
24-20609	39	Spring, friction plug	1	1	1
20737	40	Plug, friction	1	1	1
20740	42	Elbow, steering handle 21648	1	-	-
20735	42	Elbow, steering handle	-	1	1
11-20361	41	Nut, steering handle clamp screw	1	1	1
10-20736	43	Screw, steering handle clamp	1	1	1
10-20031	44	Screw, steering handle locating	1	1	1
13-20147	45	Lockwasher, steering handle locating screw	1	1	1
14-20745	46	Tab Washer, cross shaft bushing nut	1	1	1
20712	47	Plate, detent	1	1	1
24-20964	48	Spring, detent	1	1	1
13-20040	49	Lockwasher, detent spring mounting screw	2	2	2
11-20652	50	Nut, detent spring mounting screw	2	2	2
13-20202	--	Lockwasher, lock bracket screw	1	-	-
10-20606	51	Screw, lock bracket to housing (1 1/4")	1	1	1
17-20713	52	Pin, stop	1	1	1
23501A1	53	Shift Control Lever Assembly	1	-	-
20547A1	53	Shift Control Lever Assembly	-	1	1
20797	--	Coupling, shift shaft	1	1	1
10-20474	54	Screw, lock bracket to housing (3/4") 10-28636	1	1	1
10-20653	55	Screw, lock bracket to housing (1")	1	1	1
13-20147	56	Lockwasher, lock bracket screw	1	1	1
11-20714	57	Nut, stop pin	1	1	1
11-20739	58	Nut, cross shaft bushing	1	1	1
20751	59	Drum, lock - throttle & shift	1	1	1

* Used on all Mark 20 motors below Serial #754097.

Used on all Mark 20 motors above Serial #754096.

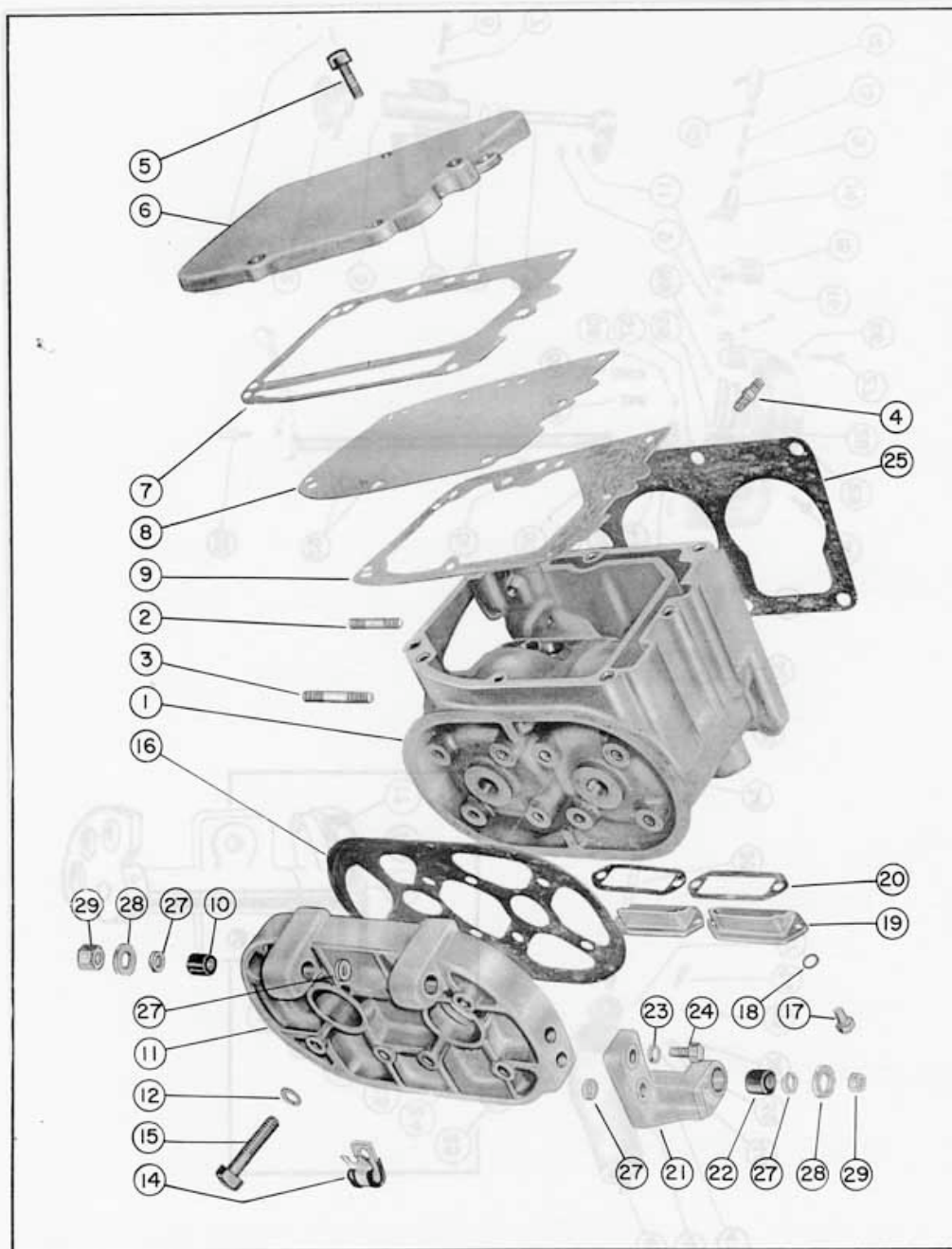
THROTTLE AND SHIFT MECHANISM



CYLINDER BLOCK ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
802-40A1	1	Cylinder Block Assembly	1	-	1
806-275A3	1	Cylinder Block Assembly	-	1	-
16-20484	2	Stud, powerhead to drive shaft hsg. (short)	2	2	2
16-20526	3	Stud, powerhead to drive shaft hsg. (long)	2	2	2
16-20525	4	Stud, cylinder block to crankcase	6	6	6
91-20065	-	Insert, helicoil	2	-	-
10-20540	5	Screw, manifold cover to cylinder block	7	7	7
20539	6	Cover, exhaust manifold	1	1	1
27-20538	7	Gasket, baffle plate to cover	1	1	1
20537	8	Plate, baffle	1	1	1
27-20536	9	Gasket, baffle plate to cylinder block	1	1	1
1008-509A1	11	Cylinder Block Cover Assembly	1	-	-
1002-63A1	11	Cylinder Block Cover Assembly	-	1	1
23-26348	10	Bushing, fuel tank and cowl studs	2	2	2
54-20830	--	Clamp, high tension lead	1	-	-
10-20646	--	Screw, high tension lead clamp	1	-	-
11-20190	--	Nut, high tension lead clamp screw	1	-	-
12-20028	12	Washer, cover to cylinder block screw	8	8	8
54-20534	14	Clip, lead wire	-	1	1
10-20532	15	Screw, cover to cylinder block	8	8	8
27-20531	16	Gasket, cylinder block cover	1	1	1
10-20031	17	Screw, transfer port cover	4	4	4
12-20028	18	Washer, transfer port cover screw	4	4	4
20029	19	Cover, transfer port	2	2	2
27-20030	20	Gasket, transfer port cover	2	2	2
20543A1	21	Top Cowl Mounting Bracket Assembly (rear)	-	1	1
23-26348	22	Bushing, top cowl stud	-	1	1
13-26992	23	Lockwasher, bracket screw	-	2	2
10-20542	24	Screw, bracket to cylinder block cover	-	2	2
27-21173	25	Gasket, cylinder block to crankcase	1	1	1
12-20028	27	Washer, cowl mounting studs (small)	-	6	6
12-20346	28	Washer, cowl mounting studs (large)	-	2	2
12-22937	28	Washer, cowl mounting studs (large)	-	1	1
11-20361	29	Nut, cowl mounting studs	-	3	3
25-21706	--	"O" Ring, cylinder block to crankcase bottom	1	-	-

CYLINDER BLOCK ASSEMBLY



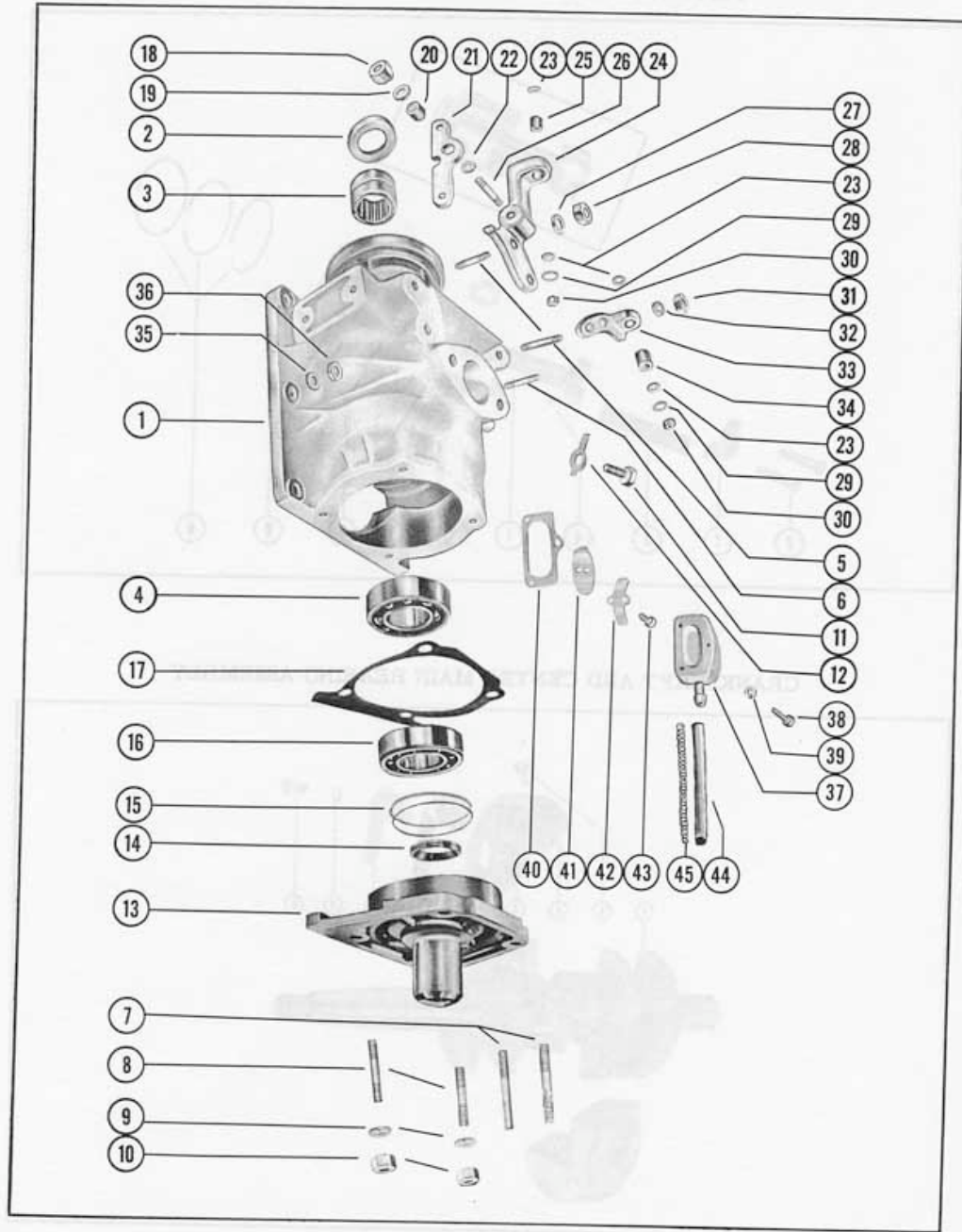
CRANKCASE ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
917-478A1	1	Crankcase Assembly	1	-	-
902-42A1	1	Crankcase Assembly	-	1	1
917-478	-	Crankcase	1	-	-
26-20465	2	Oil Seal	1	1	1
31-21700	3	Bearing, roller	1	-	-
31-20463	3	Bearing, roller	-	1	1
30-20464	4	Bearing, ball	1	1	1
16-20469	5	Stud, crankcase to cowl mounting bracket	-	4	4
16-20468	6	Stud, crankcase to carburetor	2	2	2
16-20466	7	Stud, crankcase to drive shaft housing	2	2	2
16-20467	8	Stud, crankcase to crankcase bottom	2	2	2
13-26992	9	Lockwasher, crankcase bottom stud	2	2	2
11-20088	10	Nut, crankcase bottom stud	2	2	2
10-20089	11	Screw, center main bearing locking	1	1	1
14-20091	12	Tab Washer, center main bearing locking screw	1	1	1
1103-50A1	13	Crankcase Bottom Assembly	1	-	-
1103-49A1	13	Crankcase Bottom Assembly (see note below)	-	1	1
26-20513	14	Oil Seal	1	-	-
26-20948	14	Oil Seal	-	1	1
15-20514	15	Shim, ball bearing (.002-3-5-10)	AR	AR	AR
30-20464	16	Bearing, ball - crankcase bottom	1	1	1
27-20515	17	Gasket, crankcase bottom to crankcase	1	1	1
27-20516	--	Gasket, crankcase bottom to plate } see note below	1	1	1
20517	--	Plate, crankcase bottom	1	1	1
11-20509	18	Nut, bracket stud	-	1	1
12-20572	19	Washer, bracket stud	-	1	1
23-20571	20	Bushing, bracket stud	-	1	1
20570	21	Plate, cowl mounting	-	1	1
12-20551	22	Washer, rubber - plate to starboard bracket	-	1	1
12-20028	23	Washer, cowl mounting stud	-	4	4
20549A1	24	Front Starboard Bracket Assembly	-	1	1
23-26348	25	Bushing, cowl mounting stud	-	1	1
16-20550	26	Stud, cowl mounting plate to bracket	-	1	1
12-20028	27	Washer, bracket mounting stud (starboard)	-	2	2
11-20184	28	Nut, bracket mounting stud (starboard)	-	2	2
12-20346	29	Washer, cowl mounting stud	-	2	2
11-20361	30	Nut, cowl mounting stud	-	2	2
11-20184	31	Nut, bracket mounting stud (port)	-	2	2
12-20028	32	Washer, bracket mounting stud (port)	-	2	2
20573A1	33	Front Port Bracket Assembly	-	1	1
23-26348	34	Bushing, cowl mounting stud	-	1	1
12-20546	35	Washer, cylinder block to crankcase stud	6	6	6
11-20083	36	Nut, cylinder block to crankcase stud	6	6	6
20038	37	Cover, pressure valve	-	1	1
23112	--	Cover, pressure valve	-	-	1
23111	--	Check Valve and Connector, air line	1	1	-
32-23024	--	Air Line, pressure relief	-	-	1
10-20041	38	Screw, pressure valve cover to crankcase	-	3	3
13-26996	39	Lockwasher, pressure valve cover screw	-	3	3
27-20039	40	Gasket, pressure valve cover to crankcase	-	1	1
34-20035	41	Reed, pressure valve	-	1	1
34-20036	42	Stop, reed	-	2	2
10-20037	43	Screw, reed stop	-	1	1
32-20476	44	Air Line, pressure valve cover to receptacle	-	1	1
24-20477	45	Spring, air line	-	1	1
54-22976	--	Clamp, hose	-	2	2

NOTE: When replacing present crankcase bottom with latest style (1103-49A1) Crankcase Bottom Ass'y on either Mark 15 or 20 engines the 27-20516 Gasket and 20517 Plate are no longer required.

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CRANKCASE ASSEMBLY



PISTON AND CONNECTING ROD ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
601-62A2	1	Connecting Rod Assembly	2	2	2
10-20519	2	Screw, connecting rod	4	4	4
29-20520	3	Bearing, needle - crankpin	56	56	56
11-20061	4	Nut, connecting rod screw	4	4	4
12-20522	5	Washer, needle bearing retaining	4	4	4
29-20521	6	Bearing, needle - piston pin	44	44	44
718-1193A2	7	Piston and Piston Pin Assembly	2	-	2
708-447A1	7	Piston and Piston Pin Assembly	-	2	-
40-20057	8	Lock Ring, piston pin	4	4	4
39-20058	9	Ring, piston	6	-	6
39-21680	9	Ring, piston	-	6	-

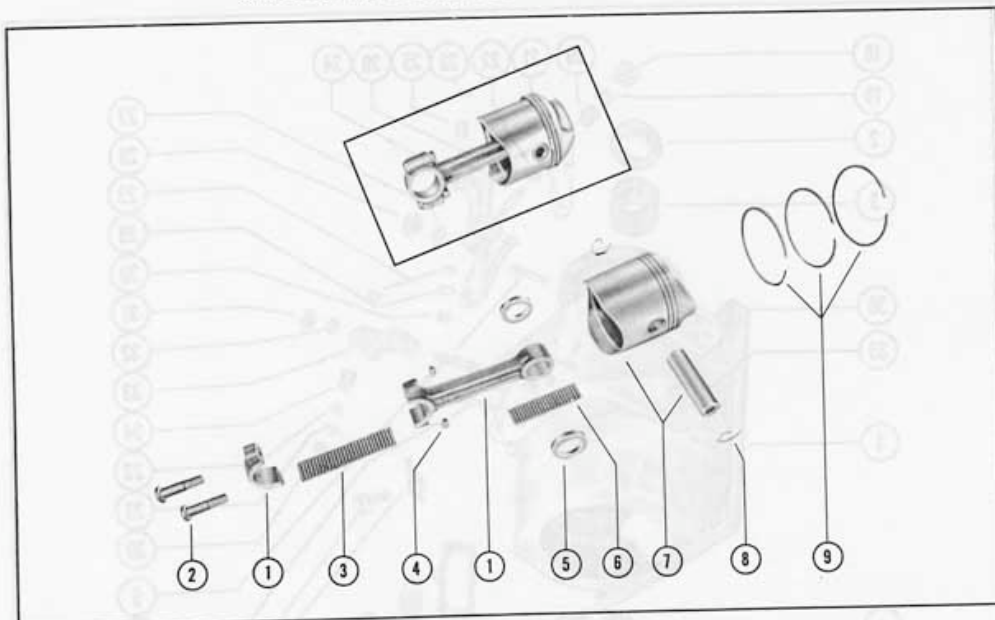
Oversize Pistons and Rings

714-497A1	-	Piston and Piston Pin Assembly (.015 oversize)	2	-	2
701-142A1	-	Piston and Piston Pin Assembly (.015 oversize)	-	2	-
39-20992	-	Ring, piston (.015 oversize)	6	-	6
39-20993	-	Ring, piston (.015 oversize)	-	6	-

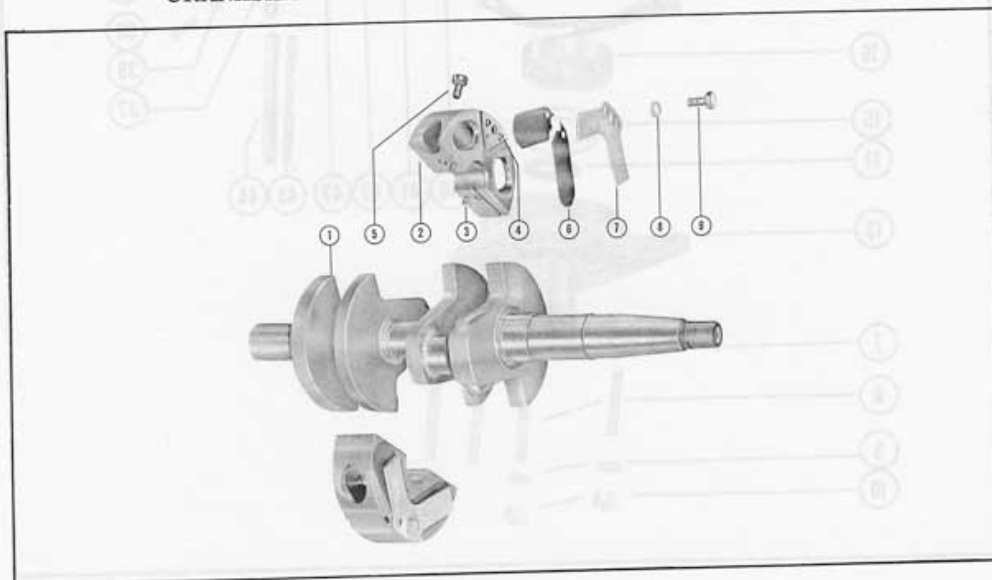
CRANKSHAFT AND CENTER MAIN BEARING ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
402-48	1	Crankshaft	1	1	1
502-59A1	2	Center Main Bearing Assembly	1	1	1
17-20392	3	Dowel Pin, center main bearing	2	2	2
17-20050	4	Dowel Pin, reed locating	8	8	8
10-20049	5	Screw, center main bearing clamping	2	2	2
34-20888	6	Reed Set, matched - center main bearing	1	1	1
34-20053	7	Reed Stop, main bearing reed valve	4	4	4
12-26014	8	Washer, reed stop mounting screw	4	4	4
10-20055	9	Screw, reed stop mounting	4	4	4

PISTON AND CONNECTING ROD ASSEMBLY



CRANKSHAFT AND CENTER MAIN BEARING ASSEMBLY

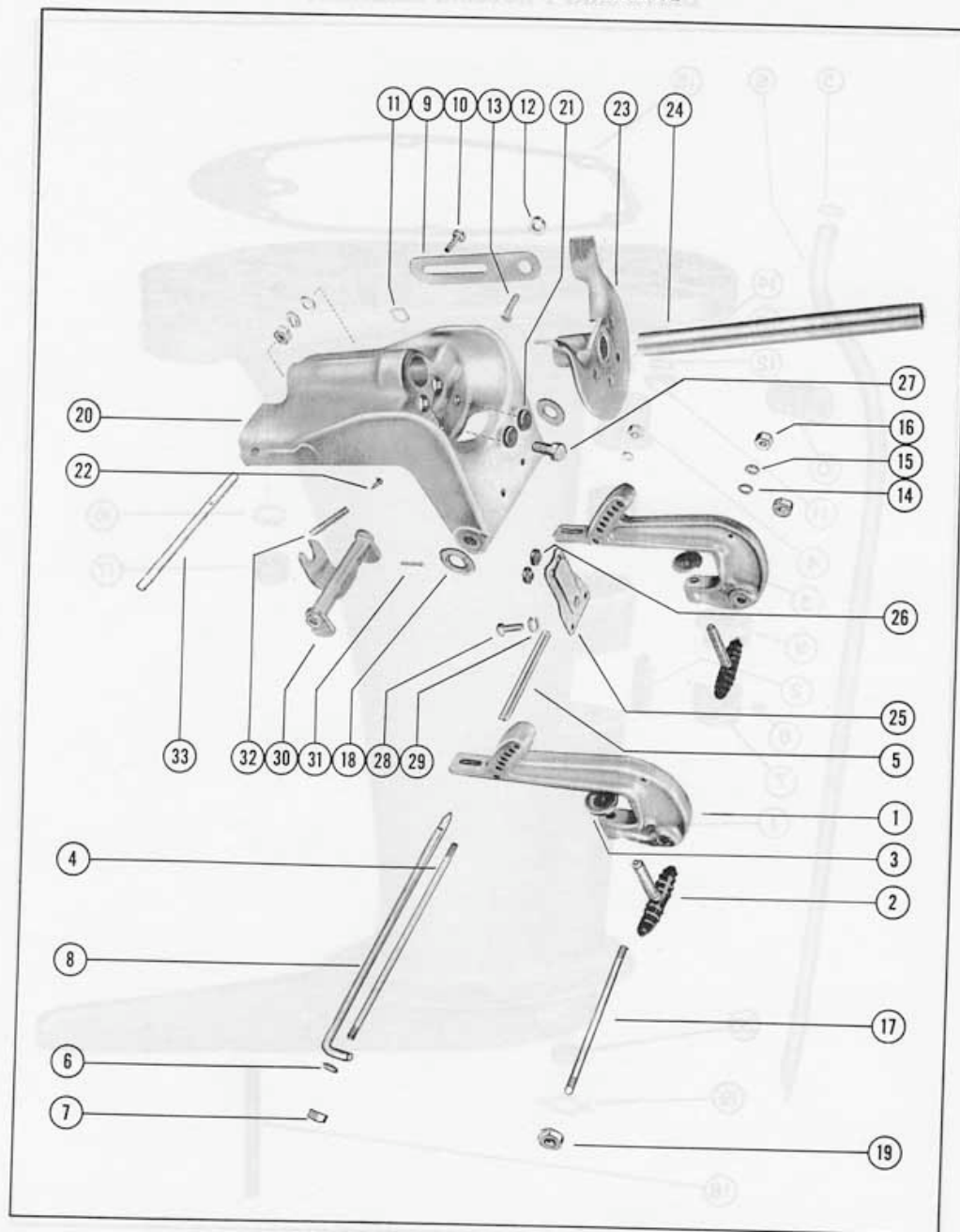


CLAMP AND SWIVEL BRACKET

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
1400-273A1	1	Clamp Bracket Assembly	2	-	-
1408-246A2	1	Clamp Bracket Assembly	-	2	-
1400-21A1	1	Clamp Bracket Assembly	-	-	2
22477	2	Thumb Screw Assembly	2	2	2
12-20214	3	Washer, thumb screw	2	2	2
16-20657	4	Stud, clamp bracket	1	1	1
23-20658	5	Spacer, clamp bracket stud	1	1	1
13-26993	6	Lockwasher, clamp bracket stud	2	2	2
11-20083	7	Nut, clamp bracket stud	2	2	2
17-28848A2	8	Tilt Lock Pin Assembly	1	1	1
20693	9	Lever, tilt stop	1	1	1
10-27790	10	Screw, retaining - tilt stop lever	1	1	1
13-20846	11	Washer, wave - retaining screw	1	1	1
23-20216	12	Spacer, tilt stop lever	1	1	1
10-20217	13	Screw, anchor - tilt stop lever	1	1	1
12-20028	14	Washer, tilt stop lever screw	2	2	2
13-26992	15	Lockwasher, tilt stop lever screw	2	2	2
11-20088	16	Nut, tilt stop lever screw	2	2	2
16-20694	17	Stud, clamp bracket to swivel bracket	1	1	1
15-20695	18	Shim, clamp bracket to swivel bracket	2	2	2
54-20284	--	Clip, safety chain	1	1	1
11-20696	19	Nut, clamp bracket to swivel bracket stud	2	2	2
1402-66A1	20	Swivel Bracket Assembly	1	-	-
1406-798A1	20	Swivel Bracket Assembly	-	1	-
1402-86A1	20	Swivel Bracket Assembly	-	-	1
20203	21	Disc, friction - swivel bracket	2	2	2
10-20697	22	Screw, drive - spring attaching	1	1	1
20951	23	Co-Pilot Disc	1	1	1
17-20710	24	Swivel Pin	1	1	1
20701A1	25	Clamp Plate Assembly	1	1	1
20203	26	Disc, friction - clamp plate	2	2	2
10-20705	27	Screw, clamp plate tension adjusting	1	1	1
10-21625	28	Screw, clamp plate to swivel bracket	2	2	2
13-26992	29	Lockwasher, clamp plate screw	2	2	2
20974	30	Reverse Lock Lever Assembly	1	1	1
18-20209	31	Cotter Pin, reverse lock lever	1	1	1
24-20210	32	Spring, reverse lock lever	1	1	1
20709	33	Rod, reverse lock lever	-	1	-
38-24411	--	Serial Plate	-	-	1
38-20748	--	Serial Plate	-	-	1
10-20314	--	Screw, drive - serial plate to swivel bracket	-	4	4

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CLAMP AND SWIVEL BRACKET



DRIVE SHAFT HOUSING ASSEMBLY

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
1501-78A1	1	Drive Shaft Housing Assembly	1	1	1
20641	2	Liner, cam guide slot	1	1	1
23-20638	3	Bushing, lower	1	1	1
23-20973	4	Bushing, upper	1	1	1
25-20633	5	"O" Ring, water inlet tube	1	1	1
32-20634	6	Tube, water inlet	1	1	1
16-20635	18	Stud, gear housing to drive shaft housing	1	1	1
20715	7	Cam, reverse lock - lower half	1	1	1
10-20716	8	Screw, set - reverse lock cam	1	1	1
20717	9	Cam, reverse lock - upper half	1	1	1
24-20229	10	Spring, co-pilot to drive shaft housing	1	1	1
11-20083	11	Nut, lock bracket screw (1 1/4")	2	2	2
13-20202	12	Lockwasher, lock bracket screw	1	1	1
11-20088	13	Nut, lock bracket screw (1")	1	1	1
13-26992	14	Lockwasher, lock bracket screw	1	1	1
27-20642	15	Gasket, drive shaft housing to powerhead	1	1	1
12-20028	16	Washer, powerhead stud	1	1	1
11-20088	17	Nut, powerhead stud	6	6	6
14-20747	19	Tab Washer, gear housing stud	6	6	6
11-20083	20	Nut, gear housing stud	2	2	2
			2	2	2

PROPELLERS, INSIDE AND OUTSIDE STEERING

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
# 20507A3	--	Inside Steering Bar Assembly, Complete	-	1	1
12-20553	--	Washer, steering bar	-	2	2
11-20509	--	Nut, steering bar	-	2	2
20502A1	--	Swivel Assembly	-	1	1
20502	--	Swivel, inside steering	-	1	1
24-20510	--	Spring, swivel pin	-	1	1
17-20503	--	Pin, swivel	-	1	1
17-20271	--	Pin, groove - swivel pin	-	1	1
20403A1	--	Swivel Lock Assembly	-	1	1
11-20664	--	Nut, swivel lock	-	1	1
20892A1	--	Outside Steering Bar Assembly	-	1	1
10-20639	--	Screw, steering bar to drive shaft housing	1	1	1
13-26993	--	Lockwasher, steering bar screw	2	2	2
11-20640	--	Nut, steering bar screw	2	2	2
*48-20325A4	--	Propeller Assembly, 2 blade aluminum - 10.5" pitch	2	2	2
**48-23647A1	--	Propeller Assembly, 2 blade aluminum - 11" pitch	1	-	-
48-25551A1	--	Propeller Assembly, 3 blade bronze - 9" pitch	1	-	1
48-24611A1	--	Propeller Assembly, 2 blade aluminum - 9.5" pitch	1	-	1
48-25419A2	--	Propeller Assembly, 2 blade aluminum - 11.6" pitch	-	1	-
48-25662A1	--	Propeller Assembly, 2 blade bronze - 11" pitch	-	-	1
48-25663A1	--	Propeller Assembly, 2 blade bronze - 11.6" pitch	-	-	1

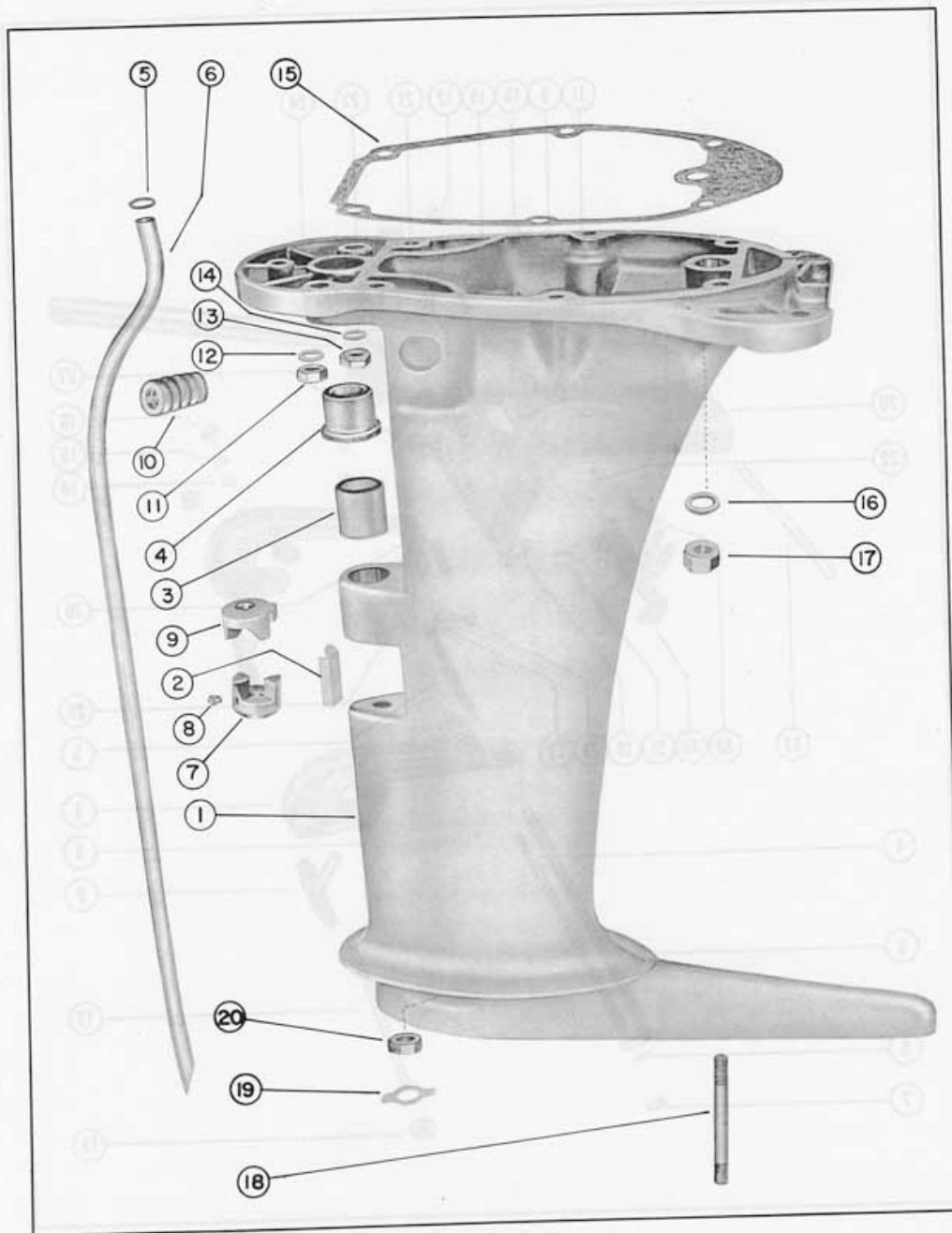
* Use on KH7 below Serial #540510.

** Use on KH7 above Serial #540509.

For use on 20507A3 Inside Steering Bar Assembly, on Mark 15 and Mark 20 motors below Serial #754097, replace present throttle and shift lock bracket with 20548 Bracket.

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DRIVE SHAFT HOUSING ASSEMBLY



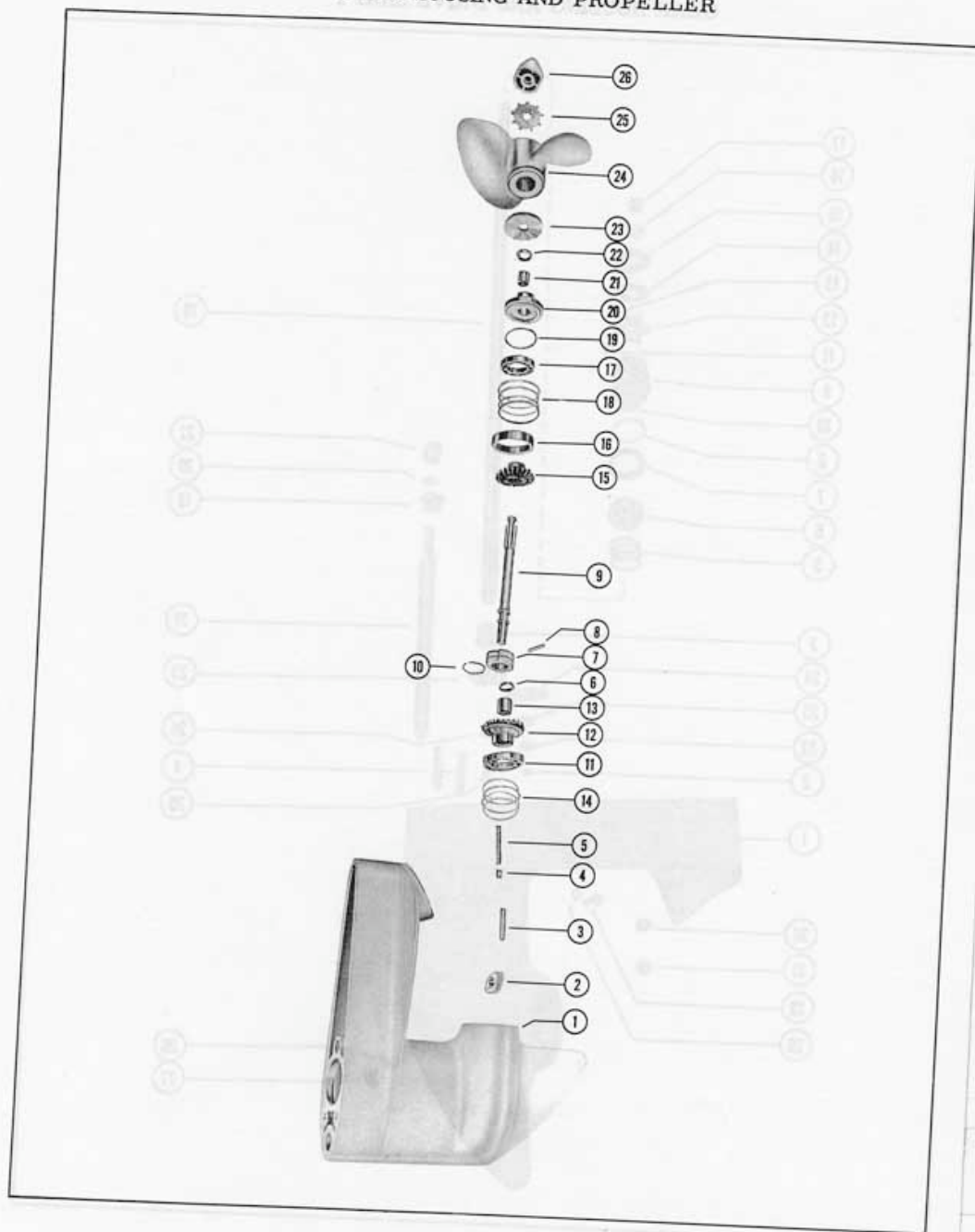
GEAR HOUSING AND PROPELLER

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
1602-994A11	1	Gear Housing Assembly, Complete	1	1	1
20794	2	Cam, shift	1	1	1
20818	3	Cam Follower	1	1	1
20255	4	Slide, cross pin	1	1	1
24-20254	5	Spring, cam follower pin	2	2	2
12-20817	6	Washer, thrust (.170 .175 .180)	1	-	-
*52-24615	7	Clutch, sliding	1	1	1
52-25609	7	Clutch, sliding	1	-	-
*17-24607	8	Pin, cross	1	1	1
17-20819	8	Pin, cross	1	-	-
*44-24797	9	Propeller Shaft	1	1	1
44-20828	9	Propeller Shaft	1	-	-
*53-24596	10	Ring, retaining - cross pin	1	1	1
53-20820	10	Ring, retaining - cross pin	1	-	-
*43-24606A1	--	Forward Gear Assembly	1	1	1
43-20976A1	--	Forward Gear Assembly	1	-	-
*30-20824	11	Bearing, ball - forward gear	1	1	1
30-25398	11	Bearing, ball - forward gear	1	-	-
*43-24606	12	Gear, forward	1	1	1
43-20976	12	Gear, forward	1	1	1
31-20069	13	Bearing, roller - forward gear	AR	-	-
*15-24592	14	Shim, ball bearing to gear housing (.002-3-5-10)	AR	AR	AR
15-20788	14	Shim, ball bearing to gear housing (.002-3-5-10)	1	1	1
43-20977A1	--	Reverse Gear Assembly	1	1	1
43-20977	15	Gear, reverse	1	1	1
20823	16	Ring, adaptor - ball bearing	1	1	1
30-20824	17	Bearing, ball - reverse gear	AR	AR	AR
15-20822	18	Shim, ball bearing to reverse gear (.002-3-5-10)	1	1	1
25-20826	19	Ring, sealing - rubber	1	1	1
20825A2	20	Sealing Ring Assembly	1	1	1
31-20069	21	Bearing, roller - sealing ring	1	1	1
26-25431	22	Oil Seal, sealing ring (1 1/8" O.D.)	1	1	1
26-20070	22	Oil Seal, sealing ring (1" O.D.)	1	1	1
20827	23	Cover, gear housing	1	-	-
48-20325A4	24	Propeller (on KH7 below Serial #540510)	1	-	1
48-23647A1	24	Propeller (on KH7 above Serial #540509)	-	1	-
48-24611A1	24	Propeller	1	1	1
14-20749	25	Tab Washer, propeller nut	1	1	1
12-20750	--	Washer, backing - propeller nut	1	1	1
20950A1	26	Propeller Nut Assembly	1	1	1

* Parts so marked are for replacement on KH7 engines with old style Gear Housing Assembly, (1605-808A1).

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GEAR HOUSING AND PROPELLER



GEAR HOUSING AND DRIVE SHAFT

PART NO.	REF. NO.	DESCRIPTION	KH 7	MK 15	MK 20
1602-994A11	-	Gear Housing Assembly, Complete	1	1	1
*1605-808A1	1	Gear Housing Assembly (see note below)	1	-	-
1602-1439A1	1	Gear Housing Assembly	1	1	1
17-20032	-	Pin, dowel - locating	1	1	1
19-20791	2	Welch Plug	1	1	1
31-20790	3	Bearing, roller - drive shaft (7/8" O.D.)	1	1	1
31-28157	3	Bearing, roller - drive shaft (15/16" O.D.)	1	1	1
16-20792	4	Stud, gear housing to drive shaft housing	1	1	1
15-20803	-	Shim, drive shaft ball bearing (.010)	2	2	2
15-20804	5	Shim, ball bearing to gear housing (.002-3-5-10)	AR	AR	AR
30-20802	6	Bearing, ball - drive shaft	AR	AR	AR
12-20808	7	"L" Washer, water pump cartridge	1	1	1
25-20812	8	Seal, rubber - water pump cartridge	1	1	1
46-20809A2	9	Water Pump Cartridge Assembly	1	1	1
26-20070	10	Oil Seal, water pump cartridge	1	1	1
20810	--	Plate, bottom - water pump cartridge	1	1	1
20811	--	Sleeve, water pump cartridge	1	1	1
17-20265	11	Pin, pump cartridge to gear housing	1	1	1
47-20813	12	Impeller, water pump	1	1	1
17-23733	13	Pin, impeller drive	1	1	1
20815	14	Plate, outlet - water pump	1	1	1
20816A1	15	Water Pump Cover Assembly	1	1	1
26-20070	16	Oil Seal, water pump cover	1	1	1
12-20684	17	Washer, rubber - centrifugal slinger	1	1	1
45-23730	18	Drive Shaft	1	1	1
*23-24589A1	19	Shift Shaft Bushing Assembly	1	1	1
23-20796A1	19	Shift Shaft Bushing Assembly	1	-	-
*26-24590	20	Oil Seal	1	1	1
26-20236	20	Oil Seal	1	-	-
20795	21	Shift Shaft, lower half	1	1	1
20797	22	Coupling, shift shaft	1	1	1
43-20805	23	Gear, pinion - drive shaft	1	1	1
14-20806	24	Tab Washer, pinion gear	1	1	1
10-20807	25	Screw, pinion gear to drive shaft	1	1	1
12-20260	26	Washer, grease filler hole screw	1	1	1
10-28634	27	Screw, grease filler hole	1	1	1
12-20262	28	Washer, gear housing vent screw	1	1	1
10-28653	29	Screw, gear housing vent	1	1	1
13-20202	30	Lockwasher, drive shaft housing stud	1	1	1
11-20083	31	Nut, drive shaft housing stud	1	1	1
12-20684	32	Washer, rubber - water inlet tube	1	1	1
12-20683	33	Washer, water inlet tube	1	1	1
20746	34	Plate, water inlet tube	1	1	1

* Parts so marked are for replacement on KH7 engines with old style Gear Housing Assembly (1605-808A1).

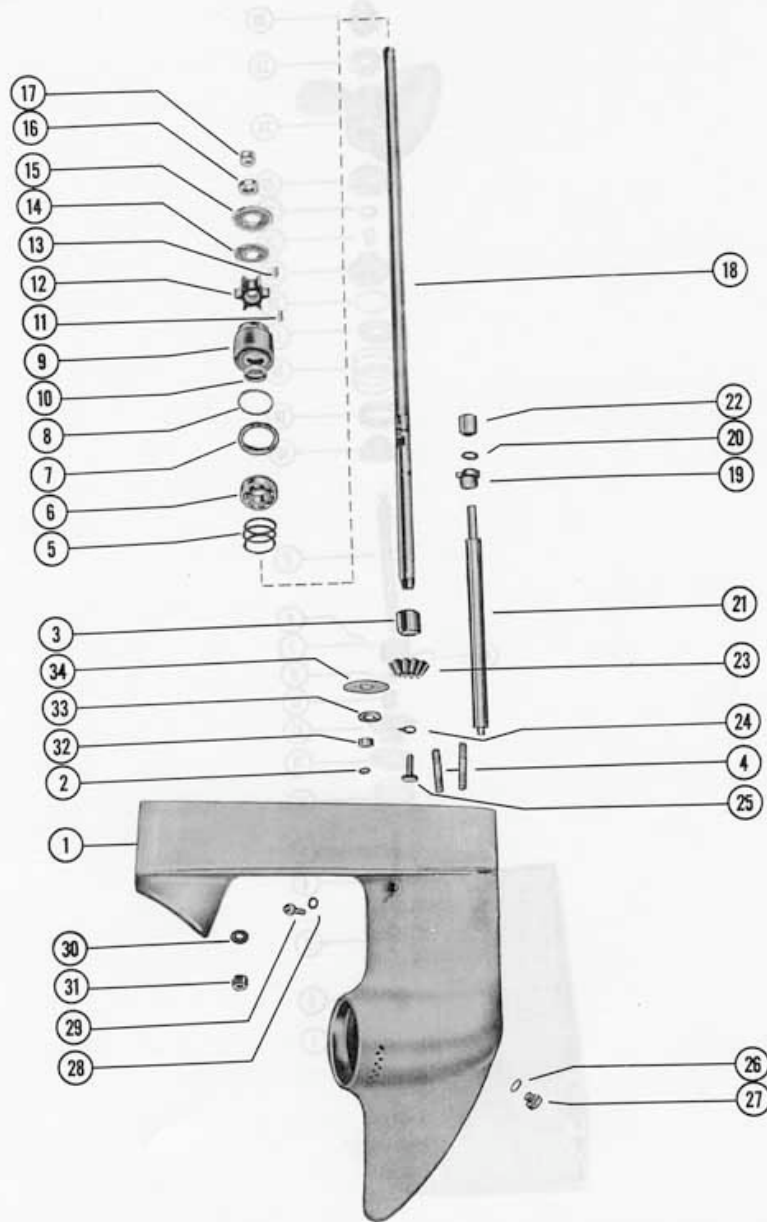
NOTE: 1605-808A1 Gear Housing Assembly is no longer available, for replacement on all KH7 engines order the following parts:

1602-1439A1	Gear Housing Assembly	(1)
30-25398	Bearing, ball	(1)
43-20976	Gear, forward	(1)

See Page 14 Ref. #11 & #12

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GEAR HOUSING AND DRIVE SHAFT



REMOTE CONTROL, FUEL TANK AND PROPELLERS

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

		Refer to Section
1201-36A1	Fuel Tank Assembly	"D"
	Remote Control Attachment Parts	"B"
20015-_S	Remote Control Cable Assembly	"B"
20002A34	Remote Control Housing Assembly	"B"
	Propellers	"F"

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