

# REPAIR PARTS CATALOG

FOR

## Models QD-15 and QDL-15



**SEA-HORSE 10**

## JOHNSON MOTORS

Waukegan, Illinois, U. S. A.



## Warranty

We warrant each new outboard motor of our manufacture to be free from defects in material and workmanship under normal use and service, our obligation under this warranty being limited to making good at the factory any part or parts thereof which shall, within three (3) months after delivery of such motor to original purchasers, be returned to us with transportation charges prepaid, and which our examination shall disclose to our satisfaction to have been thus defective; this warranty being expressly in lieu of all other warranties and representations expressed or implied and of all other liabilities in connection with the sale or use of any motors.

This warranty shall not apply to any motor which shall have been repaired or altered outside the factory in any way so as to affect its stability, nor which has been subject to misuse, negligence or accident. Warranty is void if motor is used for racing purpose.

We make no warranty in respect to trade accessories not of our manufacture; inasmuch as they are usually warranted separately by their respective manufacturers.

Because of the usual strains and accidents to which such products may be subjected, we make no warranty of either material or workmanship in racing outboard motors or any of our products when used for racing.

Claims must be entered on motors or motor parts returned to the factory for inspection, repair or replacement. Request form No. SE-16 from local Johnson Dealer or Service Station. **This form should be filled in, signed by the motor owner and dealer or service station representatives and mailed to the factory with returned material, TRANSPORTATION CHARGES PREPAID.**

# MAGNETO GROUP

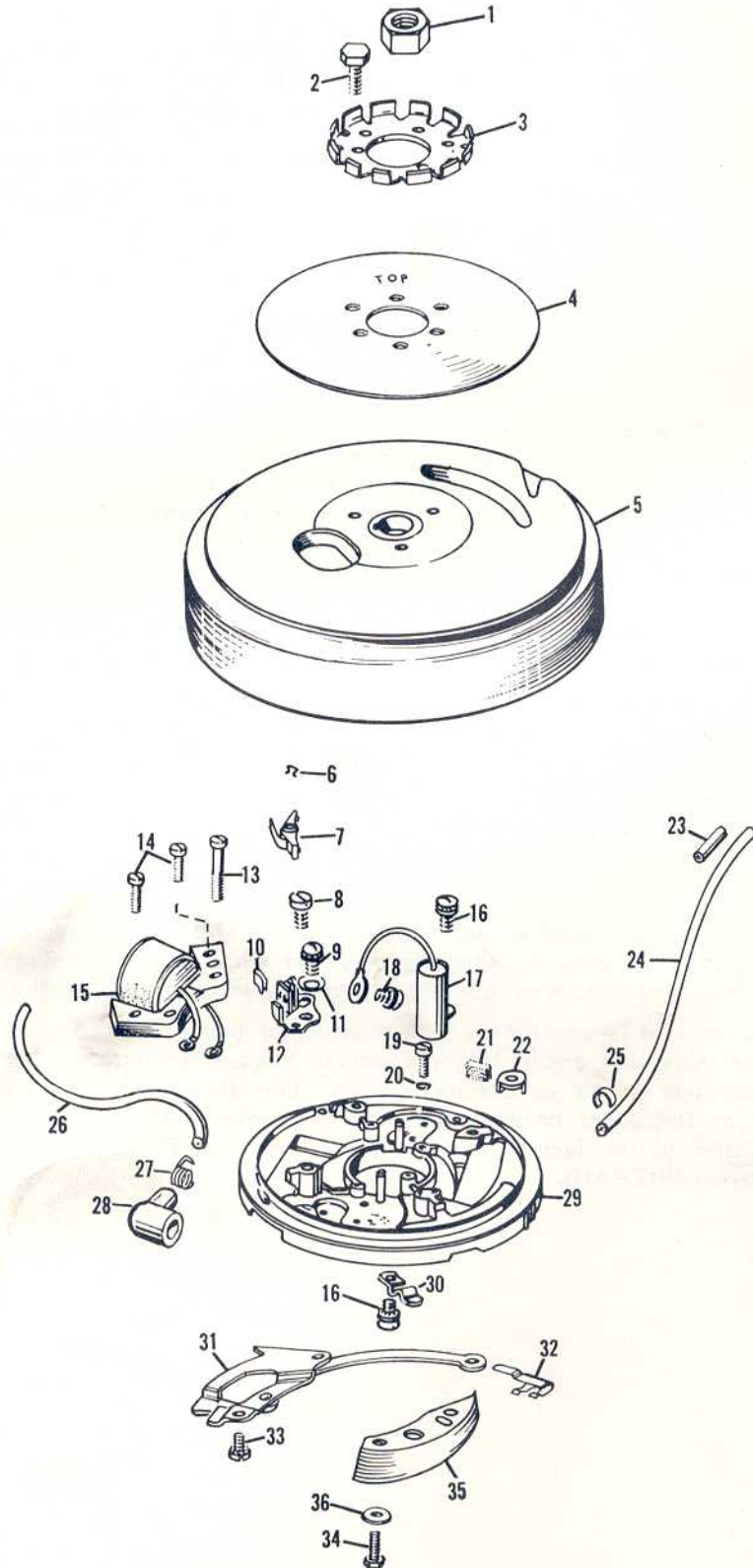


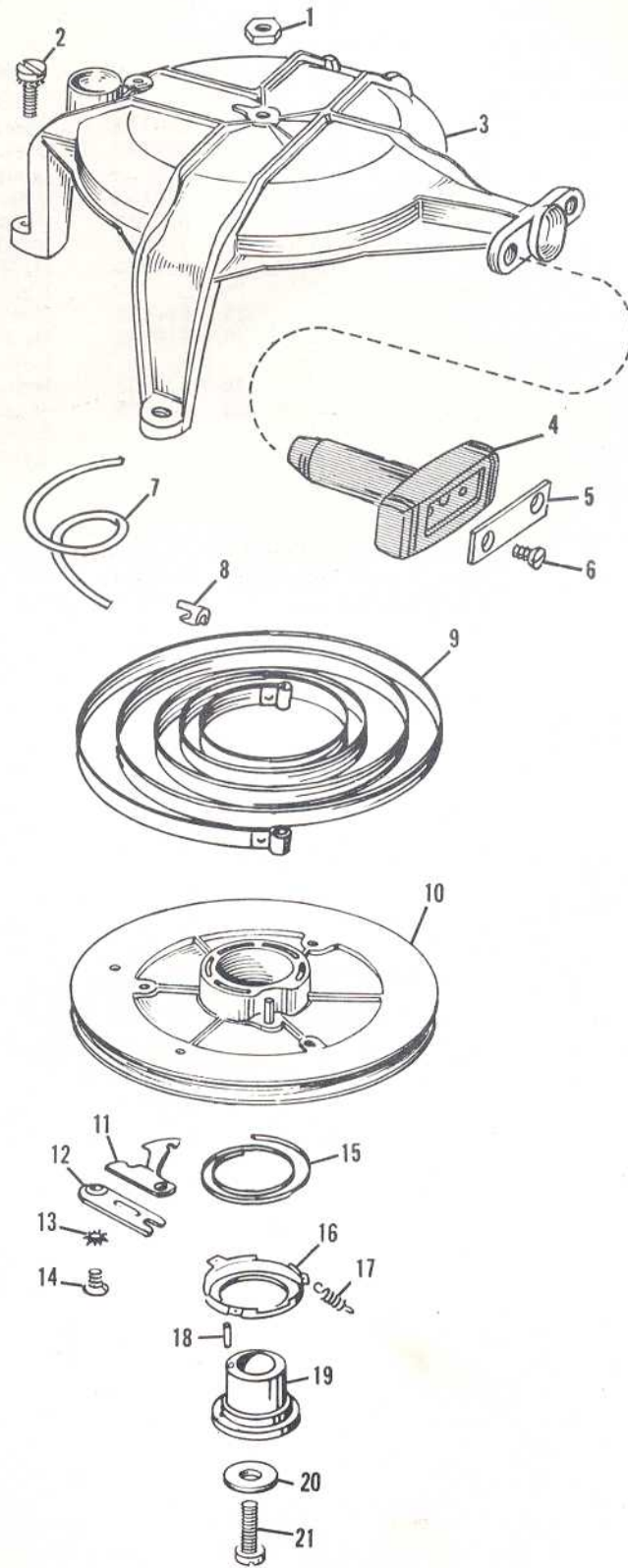
PHOTO AND PART NUMBERS FOR MAGNETO GROUP

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	301988	Nut	18	510194	Screw
2	303289	Screw	19	510192	Screw
3	202111	Ratchet	20	3-28	Lockwasher
4	303249	Cover	21	510189	Oiler Wick
5	580155	Flywheel Assembly	22	510188	Oiler Clip
6	71-1052	Spring Clip	23	510233	Insulating Sleeve
7	580123	Breaker Arm Assembly	24	510234	H. T. Lead - Upper
	(580148 Breaker Assembly Complete)		25	71-1239	Marker
8	510185	Eccentric Screw	26	510235	H. T. Lead - Lower
9	15-249	Screw	28	510232	Rubber Cover
10	510204	Clip	29	580168	Armature Plate, Sleeve and Post Assembly
11	510208	Bow Washer		(580153 Armature Plate Assembly Complete)	
12	580122	Breaker Base Assembly	30	510218	Clamp
	(580148 Breaker Assembly Complete)		31	375995	Link and Stop Assembly
13	510191	Screw	32	303146	Spring Clip
14	510195	Screw	33	510193	Screw
15	580118	Coil and Lamination Assembly	34	302750	Screw
16	510193	Screw	35	203277	Cam
17	510173	Condenser	36	300154	Washer

See Page 22 for Numerical Part List

Order All Parts from Nearest Service Station or Dealer

# STARTER GROUP



Be Sure to Specify Model and Serial Number of Motor When Ordering Parts

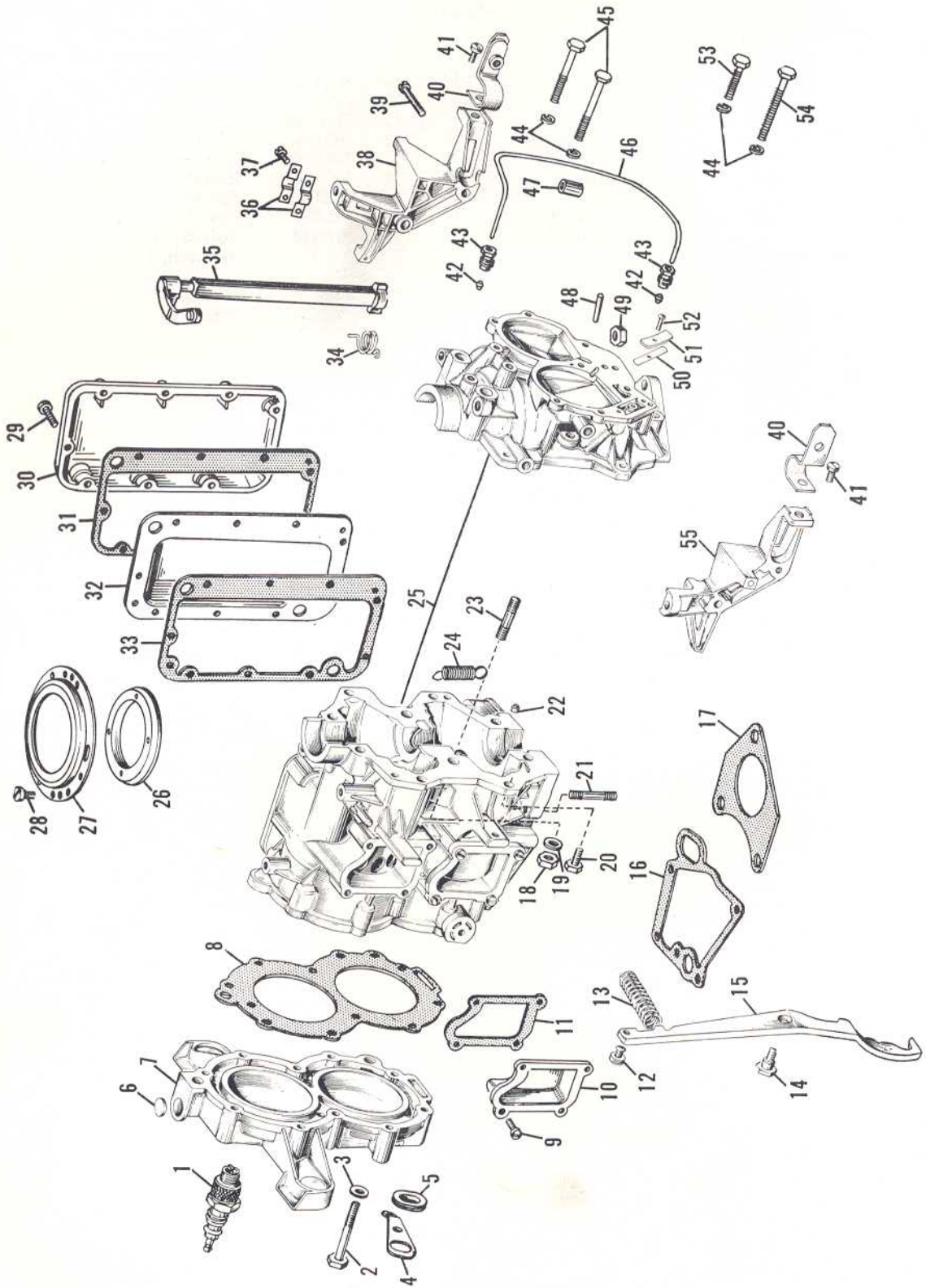
## PHOTO AND PART NUMBERS FOR STARTER GROUP

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	302103	Nut	11	202470	Starter Pawl
2	303288	Screw	12	202317	Retainer
3	376136	Starter Housing & Pin Assembly	13	71-1026	Lockwasher
4	376132	Handle	14	302104	Screw
5	303516	Clamp Plate	15	302222	Friction Spring
6	41-205	Screw	16	202114	Equalizer Cup
7	42-137	Starter Rope & Anchor Assembly	17	202155	Spring
8	41-314	Anchor	18	202156	Pin
9	41-197	Starter Spring Assembly	19	276643	Spindle & Pin Assembly
10	590646	Starter Pulley Assembly	20	202356	Washer
			21	51-223	Screw

See Page 22 for Numerical Part List

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# POWER HEAD GROUP





Be Sure to Specify Model and Serial Number of Motor When Ordering Parts

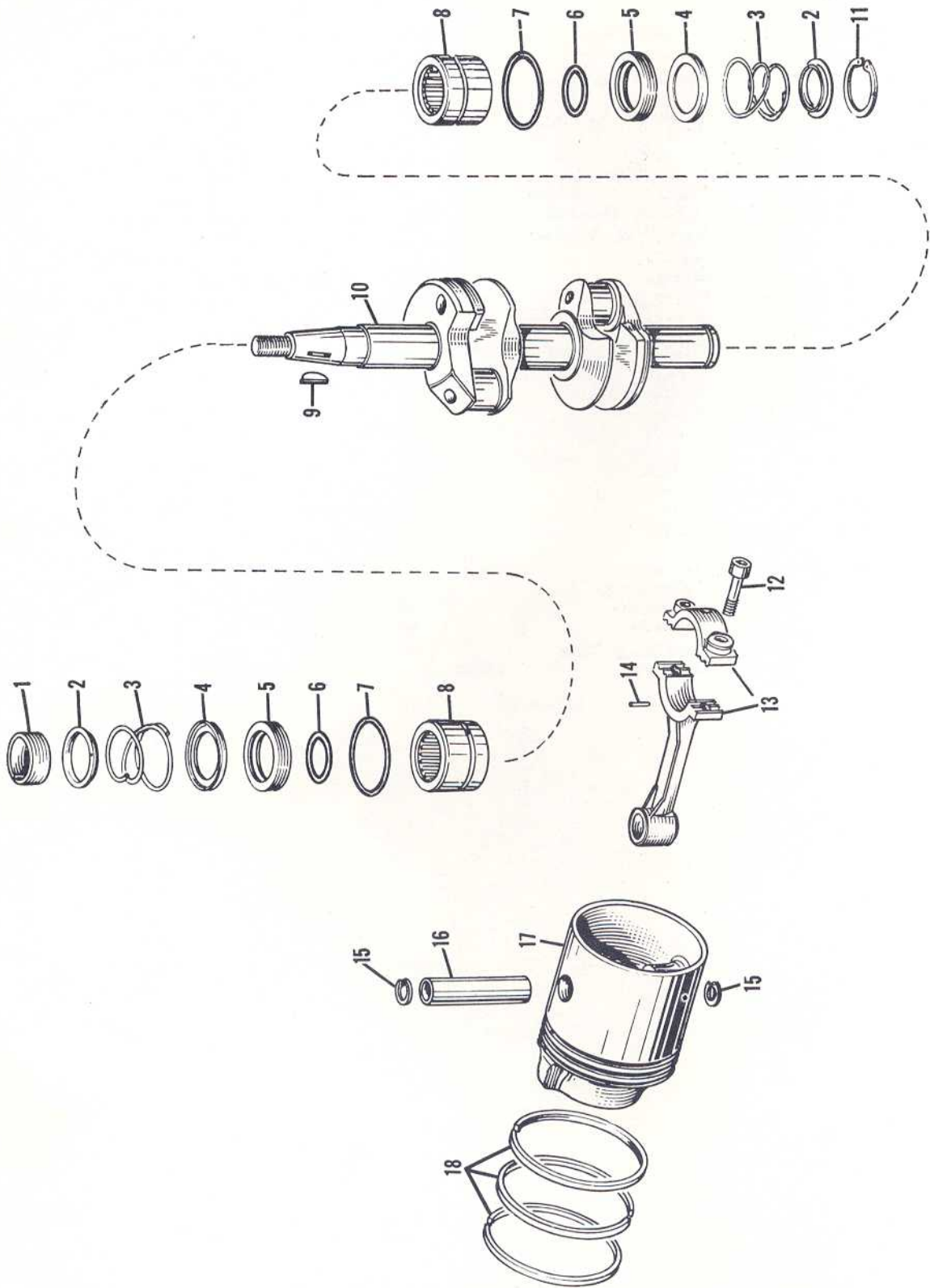
## PHOTO AND PART NUMBERS FOR POWER HEAD GROUP

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	200322	Spark Plug	28	41-223	Screw
2	302009	Screw	29	132346	Screw
3	300399	Washer	30	303103	Cover
4	300455	Anchor	31	301853	Gasket
5	300454	Grommet	32	301849	Cover
6	27-309	Core Plug - Top	33	301854	Gasket
6	19-51	Core Plug - Bottom	34	303725	Spring
7	376130	Cylinder Head & Core Plug Assembly	35	303145	Lever
8	301862	Gasket	36	303109	Bearing Clamp
9	43-259	Screw	37	43-156	Screw
10	301848	Cover	38	303501	Bracket
11	301847	Gasket	39	41-178	Screw
12	203453	Bumper	40	376131	Spring & Nut Assembly
13	302587	Spring	41	43-156	Screw
14	302592	Screw	42	11-61	Gland
15	303485	Shifter Lock	43	41-105	Packing Nut
16	303138	Gasket	44	37-154	Washer
17	302232	Gasket	45	300355	Screw
18	7-46	Nut	46	376291	Oil Line Assembly
19	37-154	Washer	47	302811	Spacer
20	51-135	Screw	48	300402	Taper Pin
21	7-143	Stud	49	7-46	Nut
22	302037	Dowel	50	203235	Leaf Valve
23	21-170	Stud	51	203248	Plate
24	302827	Spring	52	19-191	Screw
25	376252	Cylinder & Crankcase Assembly	53	21-487	Screw
26	303277	Retaining Ring	54	25-242	Screw
27	303278	Support	55	303604	Bracket

See Page 22 for Numerical Part List

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# CRANKSHAFT GROUP



Be Sure to Specify Model and Serial Number of Motor When Ordering Parts

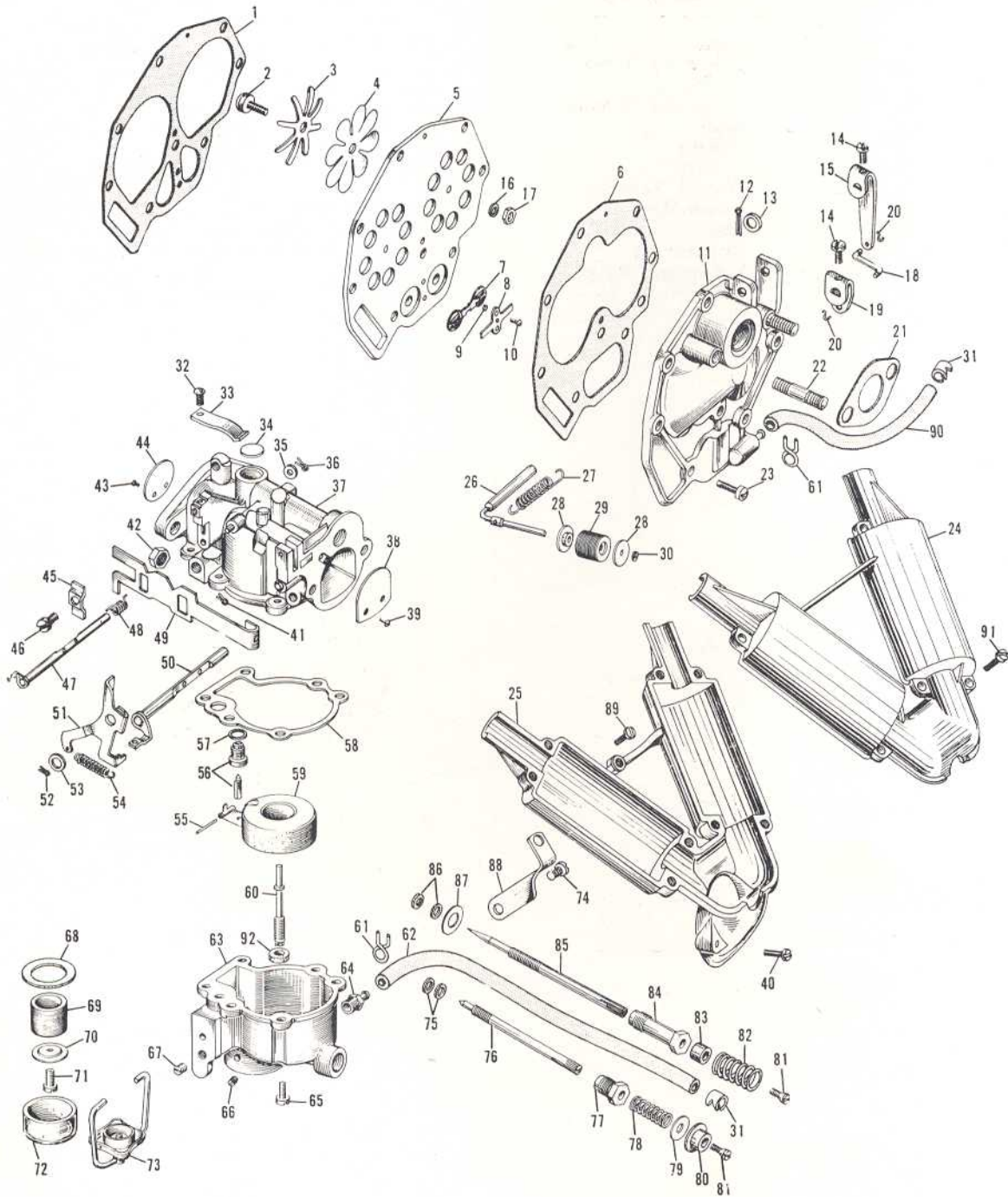
PHOTO AND PART NUMBERS FOR CRANKSHAFT, PISTON  
AND CONNECTING ROD GROUP

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	510168	Cam	13	376223	Connecting Rod Assembly
2	301857	Retaining Washer	14	27-148	Needle Bearing
3	301861	Spring	15	303712	Retaining Ring - Wrist Pin
4	301860	Retaining Washer	16	303711	Wrist Pin
5	302036	Seal	17	376202	Piston & Dowel Pin Assembly
6	301967	O-Ring		(376224	Piston, Connecting Rod - with rings - upper)
7	302035	O-Ring		(376226	Piston, Connecting Rod - with rings - lower)
8	302499	Needle Bearing Assembly	18	301787	Piston Rings
9	120395	Key			
10	376107	Crankshaft			
11	301859	Retaining Ring			
12	202967	Screw			

See Page 22 for Numerical Part List

Order All Parts from Nearest Service Station or Dealer

# CARBURETOR AND LEAF VALVE GROUP



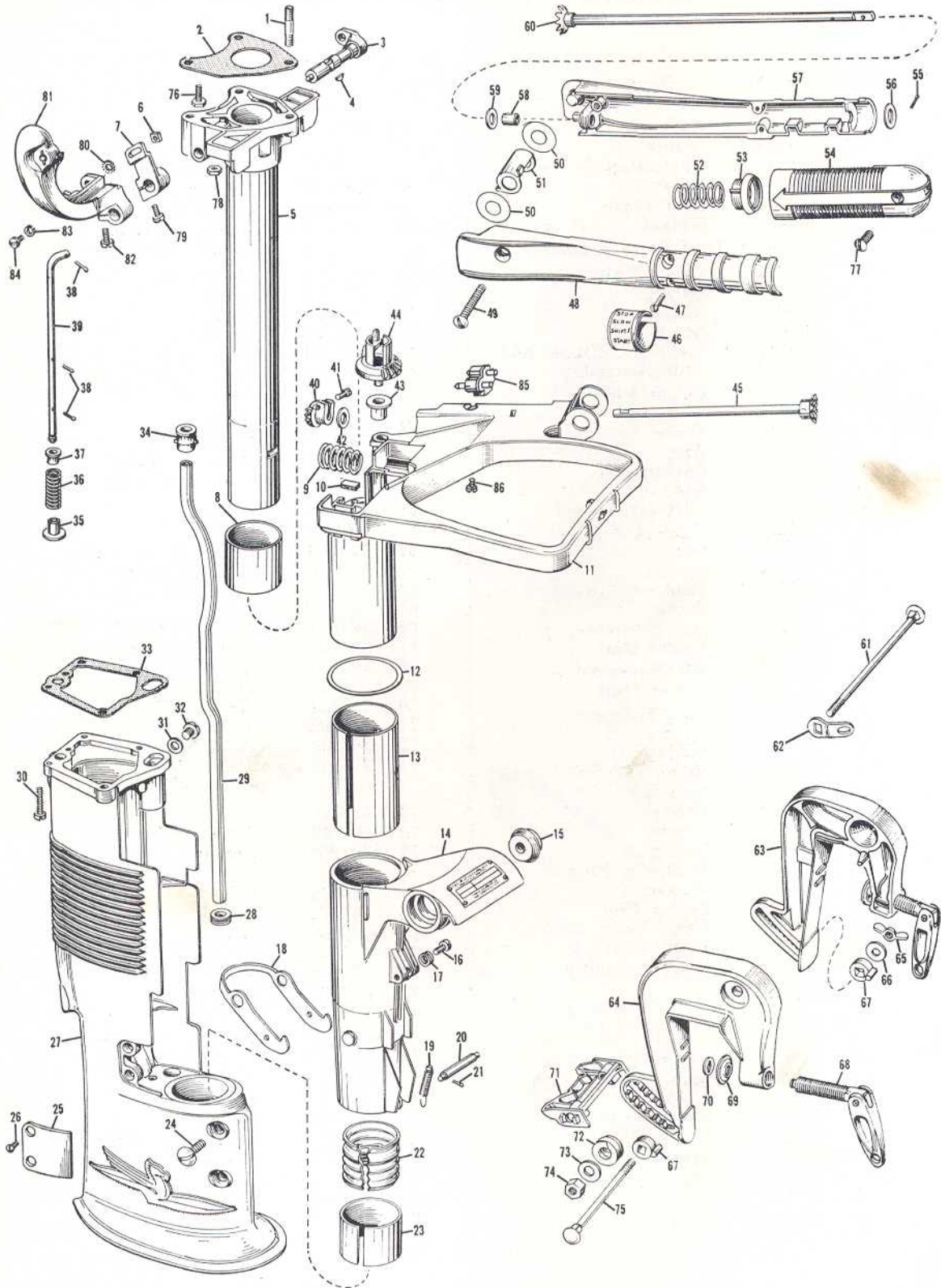
## PHOTO AND PART NUMBERS FOR CARBURETOR AND LEAF VALVE GROUP

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	303484	Gasket	47	376153	Throttle Shaft & Lever Assembly
2	301858	Screw	48	303765	Spring
3	302047	Leaf Stop	49	303143	Choke Rod
4	301965	Leaf	50	375993	Choke Shaft & Lever Assembly
5	303483	Leaf Plate	51	303144	Bellerank
6	303486	Gasket	52	41-163	Cotter Pin
	(376260	Leaf Plate Assembly)	53	85-54	Washer
7	302042	Check Valve	54	302747	Spring
8	302048	Spring	55	300096	Hinge Pin
9	302046	Spacer	56	375985	Float Valve & Seat Assembly
10	19-191	Screw	57	301996	Gasket
11	376114	Manifold, Nipple and Stud Assembly	58	302994	Gasket
12	41-163	Cotter Pin	59	375919	Float & Float Arm Assembly
13	303048	Washer	60	303618	Nozzle
14	302346	Screw	61	302647	Clamp
15	303540	Arm	62	203286	Hose
16	71-1487	Lockwasher	63	303130	Float Chamber
17	85-64	Nut	64	303172	Nipple
18	303539	Link	65	71-1589	Screw
19	303491	Arm	66	303041	Screw
20	41-110	Pin	67	303125	Screw Plug
21	303531	Gasket	68	303122	Gasket
22	302822	Stud	69	303133	Filter Element
23	43-110	Screw	70	303134	Retainer
24	203352	Air Silencer-Upper Half	71	132509	Screw
25	203353	Air Silencer-Lower Half	72	303121	Filter Bowl
26	303541	Cam Follower	73	376231	Filter Yoke Assembly
27	203276	Spring	74	43-147	Screw
28	303279	Bushing	75	43-123	Packing
29	203362	Roller	76	303159	Needle Valve-High Speed
30	203363	Retainer	77	300179	Nut
31	301822	Clamp	78	303518	Spring
32	302430	Screw	79	202065	Washer
33	303132	Spring	80	303535	Grommet
34	202310	Expansion Plug	81	551517	Screw
35	303048	Washer	82	303548	Spring
36	303049	Cotter Pin	83	303532	Sleeve
37	376253	Carb. Body, Bell-crank Shaft & Plug Assembly	84	303291	Nut
	(376120	Carburetor Assembly Complete)	85	303758	Needle Valve - Slow Speed
38	303126	Choke Valve	86	43-123	Packing
39	303760	Screw	87	203355	Washer
40	132346	Screw	88	303544	Bracket
41	21-163	Cotter Pin	89	43-156	Screw
42	7-46	Nut	90	203287	Hose
43	303760	Screw	91	43-259	Screw
44	303495	Throttle Valve	92	302984	Gasket
45	303117	Bracket			
46	131249	Screw			

See Page 22 for Numerical Part List

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# LOWER UNIT AND STEERING HANDLE GROUP



## PHOTO AND PART NUMBERS FOR LOWER UNIT AND STEERING HANDLE GROUP

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	15-149	Stud	46	303110	Plate
2	302232	Gasket	47	133452	Screw
3	375976	Shaft and Lever Assembly	48	303093	Steering Handle - Inner Half
4	25-271	Key	49	303078	Screw
5	375964	Flange and Drive-shaft Casing Assembly	50	303079	Washer
6	303189	Nut	51	303096	Cover
7	203268	Lever	52	301656	Spring
8	303075	Lining	53	303282	Friction Block
9	303077	Spring	54	303213	Grip
10	303076	Pad	55	300346	Groove Pin
11	375968	Steering Bracket and Bushing Assembly	56	303252	Washer
12	301892	Thrust Washer	57	376042	Steering Handle and Bushing Assembly
13	301893	Lining	58	302717	Bushing
14	375635	Swivel Bracket and Screw Assembly	59	302712	Washer
15	301983	Conical Washer	60	375977	Gear and Shaft Assembly
16	15-251	Screw	61	301984	Bolt
17	71-1085	Spring	62	300364	Link
18	302518	Locking Lever	63	375613	Stern Bracket and Clampscrew Assembly - Port
19	301898	Spring	64	375614	Stern Bracket and Clampscrew Assembly - Star
20	301895	Rod	65	41-59	Wing Nut
21	301974	Cotter Pin	66	37-154	Washer
22	301899	Rubber Bushing	67	301897	Lockplate
23	301900	Spacer	68	375742	Clampscrew, Swivel Plate and Retainer Assembly
24	303136	Screw	69	41-48	Swivel Plate
25	303135	Cover Plate	70	302420	Retainer
26	302681	Screw	71	302519	Thrust Socket
27	375998	Exhaust Housing Assembly	72	302051	Spring
28	302498	Grommet	73	25-196	Washer
29	303097	Water Tube	74	17-182	Nut
30	25-238	Screw	75	303232	Bolt
31	27-284	Washer	76	7-116	Screw
32	27-283	Flush Plug	77	302710	Screw
33	303138	Gasket	78	7-46	Nut
34	302497	Grommet	79	43-110	Screw
35	301915	Sleeve	80	51-137	External Lockwasher
36	301914	Spring	81	277223	Gear Shift Handle
37	301913	Sleeve	82	51-47	Screw
38	15-268	Cotter Pin	83	19-124	Lockwasher
39	303101	Shift Rod	84	21-167	Screw
40	303142	Pinion	85	375788	Body Assembly
41	71-1352	Screw	86	303311	Screw
42	303107	Washer			
43	303140	Bushing			
44	303141	Gear			
45	375979	Gear and Shaft Assembly			

**MODEL QDL-15 PARTS THAT DIFFER FROM MODEL QD-15**

29	303258	Water Tube - QDL (See Page 17 for other QDL-15 Parts)
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See Page 22 for Numerical Part List

Order All Parts from Nearest Service Station or Dealer

# GEARCASE ASSEMBLY

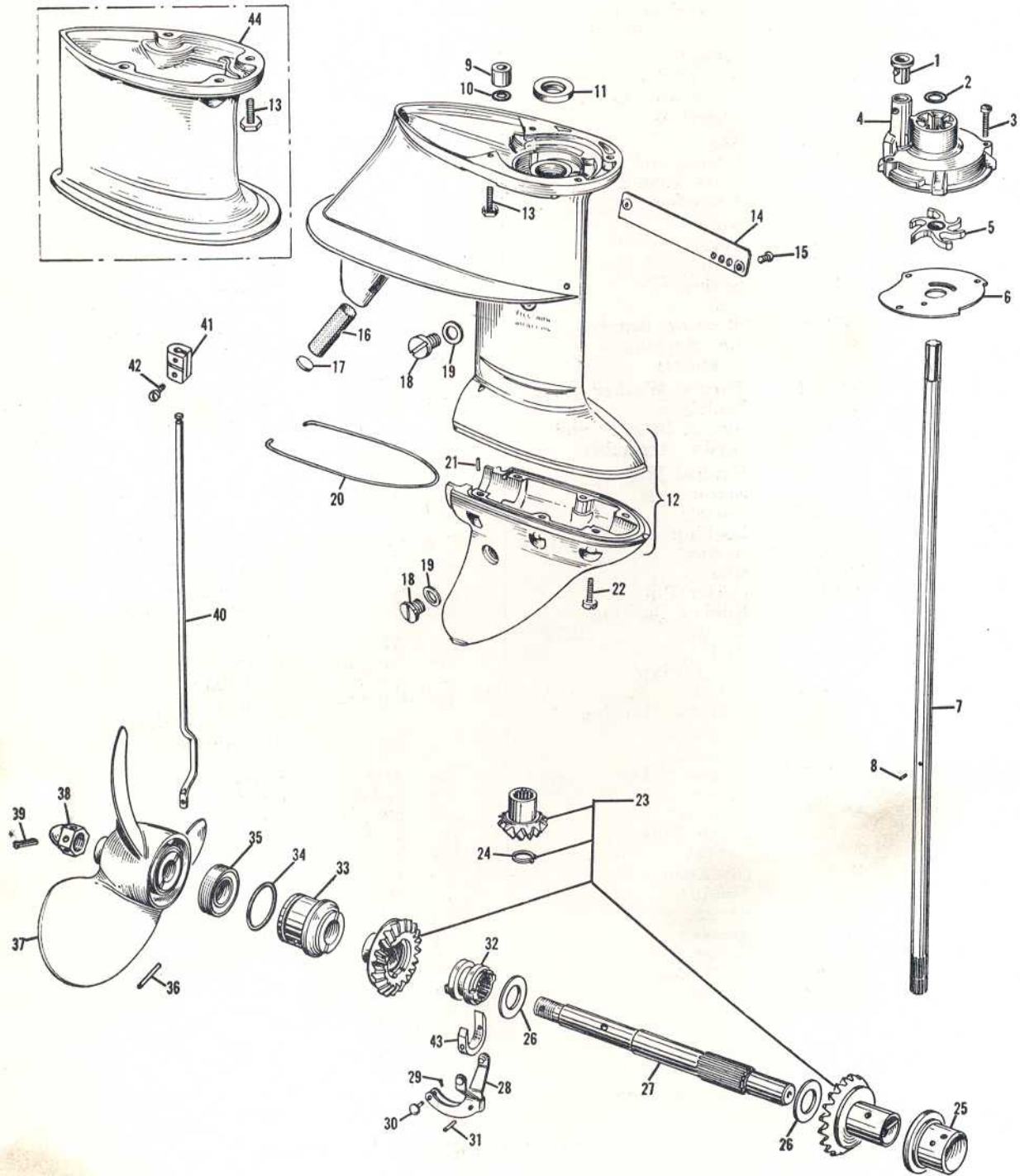




PHOTO AND PART NUMBERS FOR GEARCASE ASSEMBLY

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	302497	Grommet	24	301883	Retaining Ring
2	303067	O-Ring	25	302496	Bearing
3	302508	Screw	26	301884	Thrust Washer
4	303070	Impeller Housing	27	302483	Propeller Shaft
5	375638	Impeller Assembly	28	375755	Shifter Lever and Pin Assembly
6	303069	Plate			
7	303481	Driveshaft	29	301912	Cotter Pin
8	300771	Pin	30	302504	Pin
9	301878	Bushing	31	302501	Pivot Pin
10	301877	O-Ring	32	375711	Shifter Assembly
11	41-62	Seal	33	375751	Gearcase Head and Bearing Assembly
12	375784	Gearcase and Bearing Assembly			
13	302510	Screw	34	302493	O-Ring
14	302505	Cover	35	302495	Seal
15	302509	Screw	36	301923	Drive Pin
16	302757	Screen	37	375605	Propeller and Bushing Assembly
17	300314	Plug			
18	27-283	Plug	38	132477	Nut
19	27-284	Washer	39	302381	Cotter Pin
20	302513	Seal	40	303098	Shift Rod
21	300611	Dowel	41	303794	Connector
22	33-76	Screw	42	303795	Screw
23	375844	Pinion, Gears and Bushing Assembly	43	302500	Cradle

MODEL QDL-15 PARTS THAT DIFFER FROM MODEL QD-15

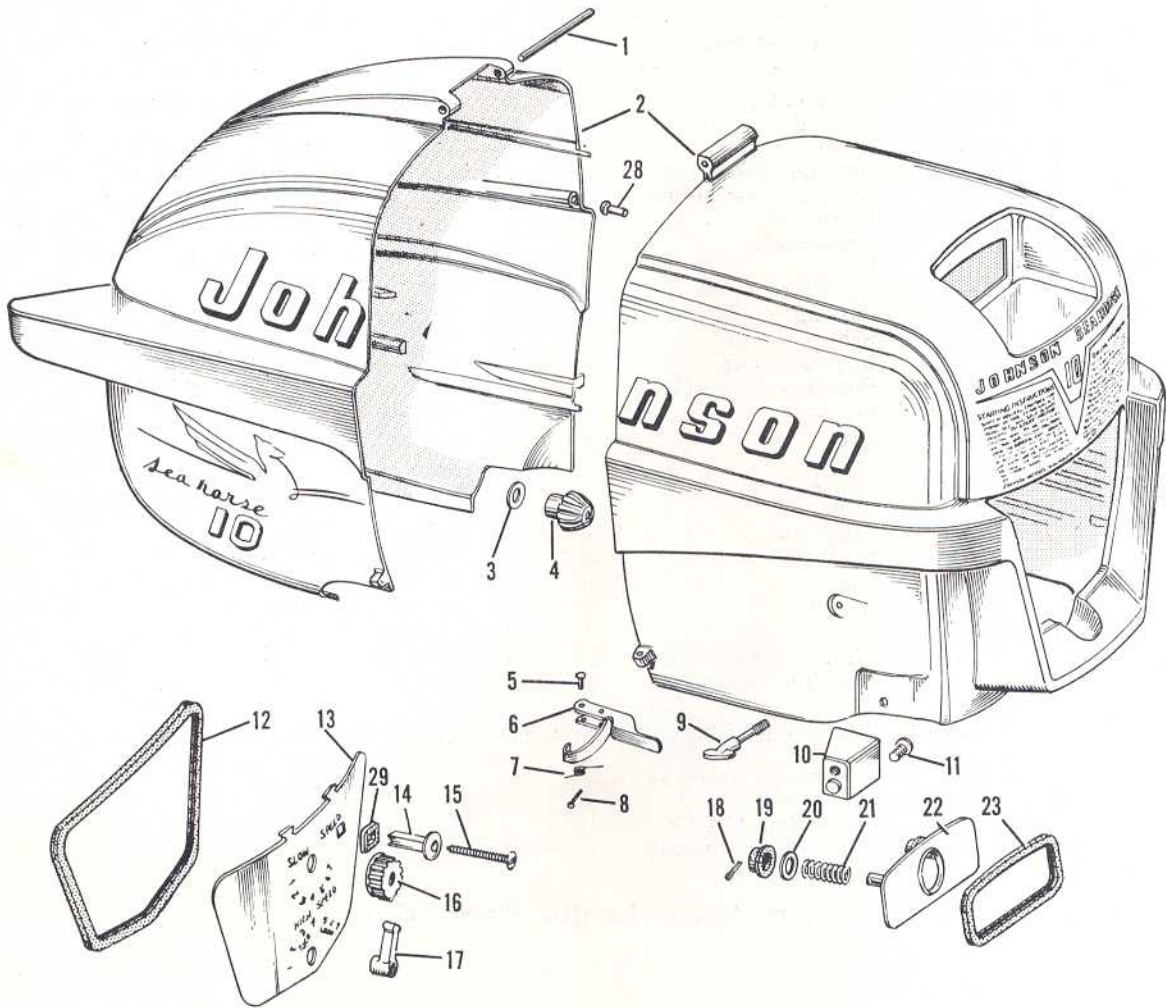
7	303482	Driveshaft (QDL)
13	302510	Screw (QDL)
40	303257	Shift Rod (QDL)
44	303260	Gearcase Extension (QDL)

(See Page 15 for QDL Water Tube)

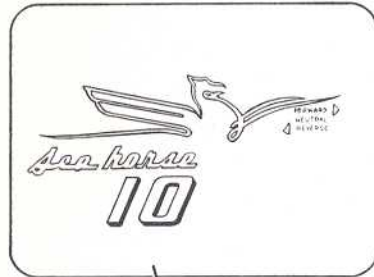
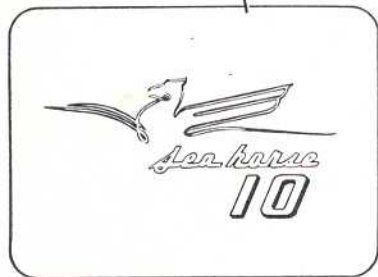
See Page 22 for Numerical Part List

Order All Parts from Nearest Service Station or Dealer

# SHROUDS



24 25



26 27



Be Sure to Specify Model and Serial Number of Motor When Ordering Parts

## PHOTO AND PART NUMBERS FOR SHROUD ASSEMBLY

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	303536	Hinge Pin	17	303521	Adjusting Lever - High Speed
2	376261	Shroud Assembly	18	41-163	Cotter Pin
3	303565	Washer	19	303535	Grommet
4	303564	Bumper	20	202065	Washer
5	303522	Pin	21	303518	Spring
6	376129	Clamp and Lever Assembly	22	303528	Cover
7	303519	Spring	23	303529	Grommet
8	303590	Cotter Pin	24	303621	Transfer - Johnson - Port and Star
9	376128	Wing Screw Assembly	25	303626	Transfer - Sea Horse 10 - Port
10	303538	Boss	26	303627	Transfer - Sea Horse 10 - Star
11	19-189	Screw	27	303636	Transfer - Instructions - Starting and Oiling
12	303537	Grommet	28	203290	Bumper
13	303534	Panel	29	303796	Grommet
14	303718	Choke Knob			
15	303761	Screw			
16	303517	Adjusting Knob Slow Speed			

See Page 22 for Numerical Part List

Order All Parts from Nearest Service Station or Dealer



PHOTO AND PART NUMBERS FOR  
MILE MASTER FUEL TANK GROUP

Photo No.	Part No.	Name of Part	Photo No.	Part No.	Name of Part
1	301828	Retainer	28	302563	Diaphragm
2	301824	O-Ring	29	301802	Disc Valve
3	301827	Washer	30	302571	Seal
4	301826	Valve	31	302568	Glass
5	301825	Spring	32	301736	Lockwasher
6	375587	Fuel Connector Assembly	33	21-195	Nut
7	301819	Washer	34	301803	Spring
8	301820	Nipple	35	302555	Housing
9	301830	Lock	36	13-558	Screw
10	301832	Rivet	37	302654	Snap Ring
11	301829	Spring	38	302653	Pin
12	301822	Hose Clamp	39	302559	Float
13	301821	Hose	40	375778	Indicator Assembly
14	375817	Filler Cap Assembly	41	375846	Foot Valve Assembly
15	301835	Gasket	42	132691	Nut
16	302560	Plate	43	13-304	Gland
17	301837	Screw	44	302135	Spring
18	43-259	Screw	45	302137	Washer
19	302570	Handle	46	302136	Valve
20	132124	Screw	47	302557	Gasket
21	301814	Gaskets	48	302556	Support
22	302572	Housing	49	53-85	Screw
23	302802	Retainer	50	375774	Fuel Tank (Only)
24	301815	Push Button	51	301838	Chain
25	17-186	Cotter Pin	52	15-213	Cotter Pin
26	302561	Push Rod		(375777 Fuel Tank Assembly Complete)	
27	301800	Support			

See Page 22 for Numerical Part List

Order All Parts from Nearest Service Station or Dealer

## NUMERICAL PARTS LIST

Part No.	No. Required Per Motor	NAME OF PART
3-28	2	Lockwasher - Armature Plate Mounting Screw.....
7-46	8	Nut - Flange to Powerhead - Cylinder to Flange Stud - Carburetor Mounting .....
7-116	1	Screw - Flange to Cylinder.....
7-143	1	Stud - Cylinder to Flange.....
11-61	2	Gland - Oil Line.....
13-304	1	Gland - Gas Line.....
13-558	8	Screw - Lower to Upper Housing.....
15-149	1	Stud - Flange to Powerhead.....
15-213	1	Cotter Pin - Filler Cap.....
15-249	2	Screw - Breaker Mounting.....
15-251	1	Screw - Swivel Bracket.....
15-268	5	Cotter Pin - Link Shifting Control - Shift Rod.....
17-182	1	Nut - Tilting Shaft Bolt.....
17-186	1	Cotter Pin - Push Button.....
19-51	1	Core Plug - Cylinder Head - Bottom.....
19-124	1	Lockwasher - Gear Shift Handle Screw.....
19-189	1	Screw - Boss to Shroud.....
19-191	3	Screw - Check Valve to Leaf Plate - Leaf Valve to Crankcase .....
21-163	1	Cotter Pin - Choke Control Rod.....
21-167	1	Screw - Gear Shift Handle.....
21-170	2	Stud - Crankcase to Cylinder.....
21-195	1	Nut - Push Rod .....
21-487	1	Screw - Crankcase to Cylinder.....
25-196	1	Washer - Tilting Shaft.....
25-238	5	Screw - Exhaust Tube to Cylinder.....
25-242	1	Screw - Crankcase to Cylinder.....
25-271	1	Key - Clamping Lever to Shaft.....
27-148	58	Needle Bearing - Connecting Rod.....
27-283	3	Plug - Oil Fill, Drain and Flush.....
27-284	3	Washer - Oil Fill, Drain and Flush Plugs.....
27-309	1	Core Plug - Cylinder Head - Top.....
33-76	6	Screw - Lower to Upper Gearcase.....
37-154	7	Washer - Cylinder and Crankcase Screws - Thrust Socket Bolt .....
41-48	2	Swivel Plate - Clampscrew.....
41-59	1	Wing Nut - Thrust Socket Bolt.....
41-62	1	Seal - Driveshaft.....
41-105	2	Packing Nut - Oil Line.....
41-110	2	Retaining Pin - Link - Throttle Lever to Cam Follower.....
41-163	3	Cotter Pin - Shift Lever to Shift Lever Shaft - Starter Cover - Front Shroud.....
41-178	6	Screw - Bracket to Powerhead.....
41-197	1	Starter Spring Assembly.....
41-205	2	Screw - Clamp Plate to Handle.....
41-223	4	Screw - Armature Plate Support.....
41-314	1	Anchor - Starter Rope.....
42-137	1	Starter Rope and Anchor Assembly.....
43-110	9	Screw - Carburetor Body to Crankcase and Manifold - Lever .....
43-123	4	Packing - High and Slow Speed Valves.....
43-147	1	Screw - Bracket to Carburetor.....
43-156	5	Screw - Bearing Clamp - Control Lever - Spring Mount - Front - Silencer Mounting Bracket.....
43-259	20	Screw - Handle to Housing - By-Pass Cover - Silencer Assembly .....
51-47	1	Screw - Gearshift Handle.....
51-135	4	Screw - Cylinder to Crankcase.....
51-137	1	Lockwasher - Adjusting Screw - Shift Handle.....
51-223	1	Screw - Spindle to Starter Housing.....
53-85	2	Screw - Support Plate to Fuel Tank.....

Order All Parts from Nearest Service Station or Dealer

## NUMERICAL PARTS LIST

Part No.	No. Required Per Motor	NAME OF PART
71-1026	3	Lockwasher - Retainer .....
71-1052	2	Spring Clip .....
71-1085	1	Spring - Swivel Bracket Screw.....
71-1239	1	Marker - H. T. Lead - Upper.....
71-1352	1	Screw - Pinion.....
71-1487	2	Lockwasher - Leaf to Leaf Plate Screw.....
71-1589	5	Screw - Float Chamber to Carburetor Body.....
85-54	1	Washer - Bell Crank.....
85-64	2	Nut - Leaf to Leaf Plate Screw.....
120395	1	Key - Crankshaft .....
131249	1	Screw - Choke Rod Bracket.....
132124	8	Screw - Support Plate to Housing .....
132346	11	Screw - Exhaust Cover to Cylinder - Silencer to Carburetor..
132477	1	Nut - Propeller .....
132509	1	Screw - Filter Element.....
132691	1	Nut - Gas Line.....
133452	2	Screw - Steering Handle Halves.....
200322	2	Spark Plug .....
202065	3	Washer - Shroud Cover to Starter Housing and Needle Valve
202111	1	Ratchet - Starter .....
202114	1	Equalizer Cup .....
202155	1	Spring - Equalizer Cup.....
202156	1	Pin - Starter Spindle.....
202310	1	Expansion Plug - Carburetor Body.....
202317	3	Retainer - Starter Pawl.....
202356	1	Washer - Starter Spindle.....
202470	3	Starter Pawl .....
202967	4	Screw - Connecting Rod.....
203235	1	Leaf Valve - Crankcase Drain.....
203248	1	Plate - Leaf Valve - Oil Drain.....
203268	1	Adjustment Lever - Shift Handle.....
203276	1	Spring - Cam Follower.....
203277	1	Cam - Armature Plate.....
203286	1	Hose - Fuel Connector to Carburetor.....
203287	1	Hose - Fuel Connector to Manifold.....
203290	2	Bumper - Shroud - Front to Rear.....
203352	1	Air Silencer - Upper Half.....
203353	1	Air Silencer - Lower Half.....
203355	1	Washer - Carburetor Packing Nut.....
203362	1	Roller - Cam Follower.....
203363	1	Retainer - Cam Follower.....
203453	1	Bumper - Shifter Lock.....
276643	1	Spindle and Pin Assembly.....
277223	1	Gear Shift Handle and Pin Assembly.....
300096	1	Hinge Pin - Float Arm.....
300154	2	Washer - Cam to Armature Plate Screws.....
300179	1	Nut - High Speed Valve.....
300314	1	Plug - Screen - Water Intake.....
300346	1	Groove Pin - Gear and Shaft Assembly.....
300355	2	Screw - Crankcase to Cylinder.....
300364	1	Link - Safety Chain.....
300399	10	Washer - Cylinder Head Screw.....
300402	2	Taper Pin .....
300454	1	Grommet - Ignition Leads.....
300455	1	Anchor - Ignition Leads.....
300611	2	Dowel - Front and Rear Bearing.....
300771	1	Pin - Pump Impeller.....
301656	1	Spring - Twist Grip.....
301736	1	Lockwasher - Push Rod.....
301787	6	Piston Ring .....
301800	2	Support - Diaphragm - Fuel Pump.....
301802	1	Disc Valve .....

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## NUMERICAL PARTS LIST

Part No.	No. Required Per Motor	NAME OF PART
301803	1	Spring - Fuel Pump.....
301814	12	Gasket - Support Plate to Housing Screw.....
301815	1	Push Button - Fuel Pump.....
301819	4	Washer - Nipple.....
301820	4	Nipple - Hose.....
301821	1	Hose .....
301822	6	Hose Clamp - Air and Gasoline Hose - Connector to Filter and Carburetor .....
301824	2	O-Ring Seal - Fuel Connector.....
301825	2	Spring - Valve - Fuel Connector.....
301826	2	Valve - Fuel Connector.....
301827	2	Washer - Valve Guide - Fuel Connector.....
301828	2	Retainer - Seal Ring - Fuel Connector.....
301829	1	Spring - Lock - Fuel Connector.....
301830	1	Lock - Fuel Connector.....
301832	1	Rivet - Lock - Fuel Connector.....
301835	1	Gasket - Filler Cap.....
301837	1	Screw - Filler Cap.....
301838	1	Chain - Filler Cap - Fuel Tank.....
301847	2	Gasket - By-Pass Cover.....
301848	2	Cover - By-Pass.....
301849	1	Cover - Exhaust - Inner.....
301853	1	Gasket - Inner to Outer Exhaust Cover.....
301854	1	Gasket - Inner Exhaust Cover to Cylinder.....
301857	2	Retaining Washer - Outer - Seal Spring.....
301858	2	Screw - Leaf Attaching.....
301859	1	Retaining Ring - Seal Spring.....
301860	2	Retaining Washer - Seal Spring.....
301861	2	Spring - Seal.....
301862	1	Gasket - Cylinder Head.....
301877	1	O-Ring - Lower Shift Rod Seal.....
301878	1	Bushing - Shift Rod - Lower.....
301883	1	Retaining Ring - Pinion.....
301884	2	Thrust Washer - Propeller Nut.....
301892	1	Thrust Washer - Swivel Bracket.....
301893	1	Lining - Swivel Bracket.....
301895	1	Rod - Reverse Lock.....
301897	2	Lockplate - Stern Bracket.....
301898	1	Spring - Reverse Lock.....
301899	1	Rubber Bushing - Driveshaft Casing.....
301900	1	Spacer - Rubber Bushing.....
301912	1	Cotter Pin - Yoke to Pin.....
301913	1	Sleeve - Shift Rod .....
301914	1	Spring - Shift Rod .....
301915	1	Sleeve - Reverse Lock .....
301923	1	Drive Pin .....
301965	2	Leaf .....
301967	2	O-Ring - Carbon Seal - Crankcase .....
301974	2	Cotter Pin - Reverse Lock Rod .....
301983	2	Conical Washer - Tilting Shaft.....
301984	1	Bolt - Tilting Shaft.....
301988	1	Nut - Crankshaft.....
301996	1	Washer - Float Valve Seat.....
302009	10	Screw - Cylinder Head.....
302035	2	O-Ring - Upper and Lower Bearing Seal.....
302036	2	Seal - Upper and Lower Bearing.....
302037	2	Dowel - Upper and Lower Bearing.....
302042	1	Check Valve - Air Line - Carburetor.....
302046	2	Spacer - Air Valve Spring.....
302047	2	Leaf Stop .....
302048	1	Spring - Check Valve .....
302051	1	Spring - Tilting Shaft .....

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## NUMERICAL PARTS LIST

Part No.	No. Required Per Motor	NAME OF PART
302103	1	Nut - Spindle Screw .....
302104	3	Screw - Retainer .....
302135	1	Spring - Pressure Relief Valve.....
302136	1	Valve - Pressure Relief .....
302137	1	Washer - Pressure Relief Valve.....
302222	1	Friction Spring - Starter .....
302232	1	Gasket - Flange to Powerhead.....
302346	2	Screw - Cam Follower Arm and Throttle Shaft Arm .....
302381	1	Cotter Pin - Propeller Nut.....
302420	2	Retainer - Swivel Plate .....
302430	1	Screw - Spring to Carburetor Body.....
302483	1	Propeller Shaft .....
302493	1	O-Ring - Gearcase Head .....
302495	1	Seal - Propeller Shaft .....
302496	1	Bearing - Gear - Front .....
302497	2	Grommet - Water Tube to Powerhead - Water Tube to Pump Housing .....
302498	1	Grommet - Water Tube - Center.....
302499	2	Needle Bearing Assembly - Upper and Lower Journal.....
302500	1	Cradle .....
302501	1	Pivot Pin - Shifting Lever.....
302504	1	Pin - Yoke to Shift Rod.....
302505	1	Cover - Water Passage .....
302508	3	Screw - Impeller Housing to Upper Gear Housing.....
302509	2	Screw - Water By-Pass Cover.....
302510	8	Screw - Upper Gearcase to Exhaust Housing - Extension to Exhaust Housing - QDL.....
302513	1	Seal - Upper to Lower Gearcase.....
302518	1	Locking Lever - Reverse.....
302519	1	Thrust Socket .....
302555	1	Housing - Lower - Fuel Tank.....
302556	1	Support - Plate - Fuel Tank.....
302557	1	Gasket - Fuel Tank .....
302559	1	Float - Fuel Tank .....
302560	1	Plate - Filler Cap .....
302561	1	Push Rod - Fuel Pump.....
302563	1	Diaphragm - Fuel Pump .....
302568	1	Glass - Fuel Tank .....
302570	1	Handle - Fuel Tank .....
302571	1	Seal - Fuel Tank Glass.....
302572	1	Housing - Upper - Fuel Tank.....
302587	1	Spring - Shifter Lock .....
302592	1	Screw - Shifter Lock to Cylinder.....
302647	4	Clamp - Gasoline and Air Hose - Carburetor to Filter, Con- nector and Manifold .....
302653	1	Pin - Indicator to Lower Housing.....
302654	2	Snap Ring - Indicator Pin.....
302681	2	Screw - Cover Plate to Exhaust Housing.....
302710	1	Screw - Steering Handle Grip.....
302712	1	Washer - Steering Handle .....
302717	1	Bushing - Steering Handle .....
302747	1	Spring - Bell Crank to Choke Control.....
302750	2	Screw - Throttle Cam.....
302757	1	Screen - Water Intake.....
302761	1	Screw - Choke Knob .....
302802	2	Retainer - Hose .....
302811	1	Spacer - Oil Line.....
302822	2	Stud - Manifold to Carburetor.....
302827	1	Spring - High Tension Leads.....
302984	1	Gasket - Carburetor .....
302994	1	Gasket - Float Chamber to Carburetor Body.....

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## NUMERICAL PARTS LIST

Part No.	No. Required Per Motor	NAME OF PART
303041	1	Screw - Float Chamber Drain.....
303048	1	Washer - Cam Follower .....
303049	1	Cotter Pin - Throttle Shaft.....
303067	1	O-Ring - Driveshaft to Crankshaft.....
303069	1	Plate - Impeller Housing .....
303070	1	Impeller Housing .....
303075	1	Lining - Steering Bracket.....
303076	2	Pad - Motor Mount .....
303077	2	Spring - Mounting - Powerhead to Lower Unit .....
303078	1	Screw - Steering Handle Halves.....
303079	2	Washer - Steering Bracket to Handle.....
303093	1	Steering Handle - Inner Half.....
303096	1	Cover - Steering Handle Gears.....
303097	1	Water Tube .....
303098	1	Shift Rod - Lower .....
303101	1	Shift Rod - Upper .....
303103	1	Cover - Exhaust - Outer.....
303107	1	Washer - Pinion - Throttle Control.....
303109	2	Bearing Clamp - Control Lever .....
303110	1	Plate - Throttle Control - Steering Handle .....
303117	1	Bracket - Choke Rod .....
303121	1	Filter Bowl .....
303122	1	Gasket - Filter Bowl .....
303125	1	Screw - Plug - Filter Element .....
303126	1	Choke Valve .....
303130	1	Float Chamber .....
303132	1	Spring - Choke Control Rod.....
303133	1	Filter Element .....
303134	1	Retainer - Gasoline Filter .....
303135	1	Cover Plate - Exhaust Housing.....
303136	2	Screw - Exhaust Housing Clamp.....
303138	1	Gasket - Exhaust Tube .....
303140	1	Bushing - Throttle Control .....
303141	1	Gear - Throttle Control .....
303142	1	Pinion - Throttle Control .....
303143	1	Rod - Choke Control.....
303144	1	Bell Crank - Choke .....
303145	1	Lever - Control - Armature Plate.....
303146	1	Spring Clip - Armature Plate .....
303159	1	Needle Valve - High Speed.....
303172	1	Nipple - Carburetor .....
303189	1	Nut - Shift Handle Adjusting Screw.....
303213	1	Grip - Steering Handle.....
303232	1	Bolt - Thrust Socket.....
303249	1	Cover - Inspection Hole - Flywheel.....
303252	1	Washer - Steering Handle to Spring.....
303257	1	Shift Rod - Lower (Model QDL).....
303258	1	Water Tube (Model QDL) .....
303260	1	Gearcase Extension (Model QDL) .....
303277	1	Retaining Ring - Armature Plate Support.....
303278	1	Support - Armature Plate .....
303279	2	Bushing - Cam Follower .....
303282	1	Friction Block - Grip .....
303288	3	Screw - Starter Housing to Mounting Bracket.....
303289	3	Screw - Ratchet to Flywheel .....
303291	1	Nut - Packing - Slow Speed.....
303311	1	Screw - Fuel Connector to Bracket.....
303481	1	Driveshaft .....
303482	1	Driveshaft (Model QDL) .....
303483	1	Leaf Plate .....
303484	1	Gasket - Leaf Plate to Crankcase.....
303485	1	Shifter Lock .....

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## NUMERICAL PARTS LIST

Part No.	No. Required Per Motor	NAME OF PART
303486	1	Gasket - Leaf Plate to Manifold.....
303491	1	Arm - Throttle Shaft .....
303495	1	Throttle Valve .....
303501	1	Bracket - Port - Shroud and Starter Mount.....
303516	1	Clamp Plate - Rope Handle .....
303517	1	Adjusting Knob - Slow Speed .....
303518	3	Spring - Control Panel and High Speed Needle.....
303519	2	Spring - Shroud Clamp .....
303521	1	Adjusting Lever - High Speed.....
303522	1	Pin - Shroud Clamp .....
303528	1	Cover - Shroud - Front.....
303529	1	Grommet - Shroud to Shroud Cover.....
303531	1	Gasket - Carburetor to Manifold .....
303532	1	Sleeve - Slow Speed .....
303534	1	Control Panel .....
303535	3	Grommet - High Speed Needle Valve - Starter Housing.....
303536	1	Hinge Pin - Shroud .....
303537	1	Grommet - Shroud to Control Panel.....
303538	1	Boss - Control Cable Lock .....
303539	1	Line - Throttle Lever to Cam Follower.....
303540	1	Arm - Cam Follower .....
303541	1	Cam Follower - Throttle .....
303544	1	Bracket - Silencer Mounting .....
303548	1	Spring - Slow Speed Needle Valve .....
303564	2	Bumper - Shroud to Cylinder Head.....
303565	2	Washer - Shroud to Cylinder Head Bumper.....
303590	2	Cotter Pin .....
303604	1	Bracket - Star - Shroud and Starter Mount.....
303618	1	Nozzle - High Speed.....
303621	2	Transfer - Johnson -Port and Star.....
303626	1	Transfer - Sea Horse 10 - Port.....
303627	1	Transfer - Sea Horse 10 - Star.....
303636	1	Transfer - Instructions - Starting and Oiling.....
303711	2	Wrist Pin .....
303712	4	Lockring - Wrist Pin.....
303718	1	Choke Knob .....
308725	1	Spring - Lever to Gear - Throttle Control.....
303758	1	Needle Valve - Slow Speed.....
303760	4	Screw - Throttle and Choke Valve to Shaft.....
303765	1	Spring - Throttle Shaft.....
303794	1	Connector - Upper and Lower Shift Rod.....
303795	2	Screw - Connector - Shift Rod.....
303796	1	Grommet .....
375587	1	Fuel Connector Assembly.....
375605	1	Propeller and Bushing Assembly.....
375613	1	Stern Bracket and Clamp Screw Assembly - Port.....
375614	1	Stern Bracket and Clamp Screw Assembly - Star.....
375635	1	Swivel Bracket and Screw Assembly.....
375638	1	Impeller Assembly - Water Pump.....
375673	1	Tool Kit .....
375711	1	Shifter Assembly - Clutch Dog.....
375742	2	Clamp Screw, Swivel Plate and Retainer Assembly.....
375751	1	Gearcase Head and Bearing Assembly.....
375755	1	Shift Lever and Pin Assembly.....
375774	1	Fuel Tank (Only).....
375777	1	Fuel Tank Assembly Complete.....
375778	1	Indicator Assembly .....
375784	1	Gearcase and Bearing Assembly.....
375788	1	Body Assembly - Fuel Connector.....
375817	1	Filler Cap Assembly.....

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## NUMERICAL PARTS LIST

Part No.	No. Required Per Motor	NAME OF PART
375884	1	Pinion, Gears and Bushing Assembly.....
375846	1	Foot Valve Assembly.....
375919	1	Float and Float Arm Assembly.....
375964	1	Flange and Driveshaft Casing Assembly.....
376968	1	Steering Bracket and Bushing Assembly.....
375976	1	Shaft and Lever Assembly.....
375977	1	Gear and Shaft Assembly - Long - Throttle Control.....
375979	1	Gear and Shaft Assembly - Short - Throttle Control.....
375985	1	Float Valve and Seat Assembly.....
375993	1	Choke Shaft and Lever Assembly.....
375995	1	Link and Stop Assembly.....
375998	1	Exhaust Housing Assembly.....
376042	1	Steering Handle and Bushing Assembly - Outer Half.....
376107	1	Crankshaft.....
376114	1	Manifold, Nipple and Stud Assembly.....
376120	1	Carburetor Assembly Complete.....
376128	2	Wing Screw Assembly.....
376129	2	Clamp and Lever Assembly - Shroud Lock.....
376130	1	Cylinder Head and Core Plug Assembly.....
376131	2	Spring and Nut Assembly.....
376132	1	Handle - Starter Rope.....
376136	1	Starter Housing and Pin Assembly.....
376153	1	Throttle Shaft and Lever Assembly.....
376202	2	Piston and Dowel Pin Assembly.....
376223	2	Connecting Rod Assembly.....
376224	1	Piston and Connecting Rod Assembly - with Rings - Upper..
376226	1	Piston and Connecting Rod Assembly - with Rings - Lower..
376231	1	Filter Yoke Assembly.....
376251	1	Starter Assembly Complete.....
376252	1	Cylinder and Crankcase Assembly.....
376253	1	Carburetor Body, Bellcrank Shaft and Plug Assembly.....
376260	1	Leaf Plate Assembly.....
376261	1	Shroud and Transfer Assembly.....
376291	1	Oil Line Assembly Complete.....
510168	1	Cam - Magneto.....
510173	2	Condenser.....
510185	2	Eccentric Screw.....
510188	1	Oiler Clip.....
510189	1	Oiler Wick.....
510191	2	Screw - Coil and Armature Plate Mounting.....
510192	2	Screw - Armature Plate Mounting.....
510193	5	Screw - Condenser and H. T. Lead Mounting - Link and Stop Assembly to Armature Plate.....
510194	2	Screw - Breaker Terminal.....
510195	4	Screw - Lamination Mounting.....
510204	2	Clip - Breaker Spring.....
510208	2	Bow Washer - Breaker Mounting.....
510218	1	Clamp - H. T. Lead.....
510231	2	Spring Terminal - H. T. Lead.....
510232	2	Rubber Cover - H. T. Lead - Spark Plug.....
510233	2	Insulating Sleeve - H. T. Lead.....
510234	1	H. T. Lead - Upper.....
510235	1	H. T. Lead - Lower.....
551517	2	Screw - Knob - High and Slow Speed.....
580118	2	Coil and Lamination Assembly.....
580122	2	Breaker Base Assembly.....
580123	2	Breaker Arm Assembly.....
580148	2	Breaker Assembly Complete.....
580153	1	Armature Plate Assembly Complete.....
580155	1	Flywheel Assembly.....
580168	1	Armature Plate, Sleeve and Post Assembly.....
590646	1	Starter Pulley Assembly.....

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