VOYAGER

OUTBOARD MOTOR

MODEL V-3L-GS DELUXE

Gear Shift

FORWARD-NEUTRAL-REVERSE

OPERATING INSTRUCTIONS

and REPLACEMENT PARTS

VOYAGER

MODEL V-3L-GS

SPECIFICATIONS

Model—V-3L-GS Super Deluxe Lite Twin

Gearshift — Forward - Neutral - Reverse

Horespower — 5 H.P. O.B.C. certified

No. Cylinders — Two, Alternate Firing

Piston Displacement — 9.66 cu. in.

Bore and Stroke — 1⅞"x1¾"

Valves — Dual Rotary Valve - 2 Port

Carburetor — Tillotson Dual jet concentric bowl type

Ignition — Phelon Magneto

Controls — Synchronized Single Lever Control

Gear Reduction — 14-24

Propeller — Two blade 7½"x9"

Cooling System — Positive Rotary

Gas Tank Capacity — 5 Quarts

Speed Range (depending upon boats used) — Approx. 1½ to 18 m.p.h.

Automatic Co-skipper Steering

Automatic Rewind Starter

PLEASE NOTE!

We reserve the right to change motor specifications contained herein without notice. Any parts contained in your motor that are different from those listed in this parts book were changed either to improve your Motor or were necessary due to material substitutions.

Outboard Motor Brands, Inc.
Post Office Box 994
Minneapolis, Minnesota

VOYAGER OUTBOARD MOTOR

MODEL V-3L-GS INSTRUCTIONS

STARTING—In Forward Gear

1. Open gas tank shut-off. Open gas cap vent screw about three turns.
2. Open high speed adjustment valve 1½ turns when motor is cold.
3. Set control arm to the START position marked on gas tank.
4. Push down on CHOKE lever and hold down while pulling starter cord.
5. After motor starts, move magneto lever to the right for high speed; close high speed adjustment valve until motor runs smoothly.
6. Should motor slow down after starting, choke quickly once or twice.
7. To stop motor, move magneto lever to the left or STOP position.
8. For neutral gear starting see gear shift instructions.

BREAK-IN

For the first 10 hours of operation the motor should be run not faster than ¾ throttle or at Start position. We recommend the use of ¾ pint of S.A.E. No. 30 non-detergent oil to each gallon of gasoline during the break-in period.

GEAR SHIFT INSTRUCTIONS

1. The gear shift lever should be in neutral position when the motor is not in use.
2. When starting the motor in neutral or shifting into neutral while the motor is running, set speed control arm in shift range position as noted on gas tank. Then move shift lever into neutral position.
3. When shifting into reverse, slow motor down to shift range position to allow locking of the reverse lock. (If the motor should tilt up while shifting, slow motor down.)
4. In shifting from reverse into forward, place speed control arm into shift range position, shift to forward, and then move speed control arm for speed desired.

LUBRICATION

The most important factor in the operation of any internal combustion engine is proper lubrication. Properly lubricate your motor and you will enjoy many years of highly satisfactory service. Improper lubrication results in premature wear and unnecessary expense.

Your new Voyager Motor is a two cycle engine and lubrication of the pistons, cylinders, connecting rod and crankshaft bearings is supplied by oil mixed with gasoline. The proportions of this mixture as well as the grades of gasoline and oil are very important.

Clear gasoline or oil should never be poured into the gas tank. Thorough mixing should be done in a separate clean container.

In addition to lubrication in the form of motor oil in the gasoline, there is one more important lubrication requirement; that is to keep the lower unit gear-housing filled with oil. You should inspect the lower unit at least once a month, and more often if the motor is in constant use.

LUBRICANT RECOMMENDED

We recommend the use of any high grade S.A.E. 30 non-detergent oil which will mix readily with gasoline. Mix this oil with any regular grade of gasoline, using full ½ pint of oil to one gallon of gasoline for normal operation after break-in period.

Any high grade outboard gear oil is recommended for use in the lower unit.

LOWER UNIT LUBRICATION

The oil in the lower unit should be checked periodically and be drained and replaced after approximately fifty (50) hours of operation.

To drain lower unit, the filler plugs should be removed and the motor placed in a vertical position to facilitate oil drainage.

When filling the unit with new oil, the motor should be placed in a horizontal position and the unit filled with Outboard gear oil EP90 or equivalent to the level of the filler plugs. An oil can, preferably the pump type, should be used for filling the unit.

PROPELLER SHEAR PIN

The soft "safety pin" shears off when you strike an obstruction at full speed, thus protecting the gears, shafts, and other mechanism of your motor from damage. When this happens shut your motor off immediately. To replace shear pin, remove the cotter-pin in the propeller nut and remove nut. Slip off the propeller and replace the broken pin with a new one. Replace propeller, nut, and cotter-pin. The nut should be drawn up until the propeller fits snug against the shear pin.

SALT WATER INSTRUCTIONS

You will extend the life and performance of your motor when used in salt water by flushing fresh water through the motor after use. This may be done by running the motor in a barrel of fresh water.

COLD WEATHER MOTOR CARE

To prevent your motor from freezing in cold weather, the following precaution should be observed. When your motor is idle or before storing for the cold weather period, drain water from it by placing it in an upright position and revolve flywheel a few times.

In storing motor for winter, drain and refill lower unit. It is advisable to remove spark plugs and pour 2 ounces of S.A.E. Motor Oil into each cylinder. Revolve flywheel a few times to distribute the oil within the motor. Flush motor before starting in the spring.

SHIFT ROD ADJUSTMENTS:

1. Move gear shift lever to neutral position.
2. If propeller turns clockwise and counter-clockwise freely, no adjustment is required.
3. If propeller is engaged, loosen control rod lock nuts and set screw on control rod adjustment guide nut. Turn guide nut clockwise or counter-clockwise until propeller is free.
4. Tighten control rod lock nuts and set screw to complete the adjustment.

CARBURETOR ADJUSTMENTS:

1. Close idle adjustment screw until it is snug (do not force needle against seat). Then open idle screw ½ turn.
2. Close high speed adjustment screw. Then open 1½ turns.
3. Start motor and move stator plate control lever to a position slightly beyond "start."
4. Close the high speed adjustment screw, until the motor begins to slow down from lack of gas. Then open high speed adjustment screw approximately one number on the dial or until motor picks up speed and runs smoothly.
5. Move stator plate control lever to position marked "Slow" on gas tank. The motor should now idle slowly. However, atmospheric changes and fuel mixtures may require opening or closing the idle adjustment screw slightly.

CARBURETOR DRAIN

There is a carburetor drain screw at bottom of fuel bowl for the purpose of draining any water or dirt which may have accumulated in the carburetor bowl. If gas does not flow freely, check gas tank screen. It is also advisable to drain the carburetor if the motor is to be transported or tilted.

MAGNETO ADJUSTMENTS:

Ordinarily these magnetos will operate over extremely long periods of time without the need for adjustment or repair. However, if engine operating difficulties are experienced which appear to be caused by the ignition system, the magneto

output can be checked to determine whether this unit is functioning properly.

Disconnect either of the high-tension cables from its spark plug. Hold the cable by its insulation in such a position that the metal terminal is about 3/16-inch from some grounded part of the engine. While holding the wire in this position, spin the engine over at normal cranking speed. If the magneto sparks this gap the trouble is not in this side of the magneto. Reconnect the cable to its plug, then repeat the procedure with the other cable. If it also jumps the 3/16-inch gap there is no magneto trouble.

When the high tension cables are connected to the spark plugs be sure the cable leading from the left side of the magneto (when facing control panel) is connected to the top spark plug.

Should the magneto fail to spark, inspect the contact breaker. If the contact points are dirty they can be cleaned with a little clear gasoline. Make sure no particles of lint are left between the point surfaces if a brush or cloth is used. If the points are severely burned install a complete new contact breaker assembly.

See that the contacts are properly adjusted. When fully open, there should be eighteen thousandths of an inch (.018") between the point surfaces. This can be checked with a feeler gauge. If the contacts do not open the proper distance, loosen the screws which hold the contact breaker, and shift the assembly slightly so as to obtain the correct clearance of .018" between the point surfaces. If there still is no spark the coil or condenser may be defective. Any service station will correct the situation.

After approximately 100 hours of operation apply four (4) drops of a good grade S.A.E. No. 60 oil to the cam oiler felt. Blot off any excess oil with a clean cloth.

SPARK PLUG ADJUSTMENTS:

The spark plugs should be kept clean and the point gap set at .035 inch. If the points are too badly corroded or burned away from long use, the plug should be replaced.

CO-SKIPPER ADJUSTMENT:

Adjustment is regulated by 3LGS58, Co-Skipper tension adjustment nut.

AUTOMATIC REWIND STARTER

When starting motor, pull starter cord knob straight out approximately 24 inches, using a quick motion. It is not advisable or necessary to pull the cable a greater distance.

Should automatic rewind starter fail to operate, remove the starter housing by removing the three screws that hold housing to gas tank. This will give access to the emergency starter plate.

OUTSIDE REPAIR CHARGES

You have received with this motor a warranty covering workmanship and materials. We will not be responsible for work performed and time spent by other than the manufacturer, unless such repairs are first authorized by us in writing.

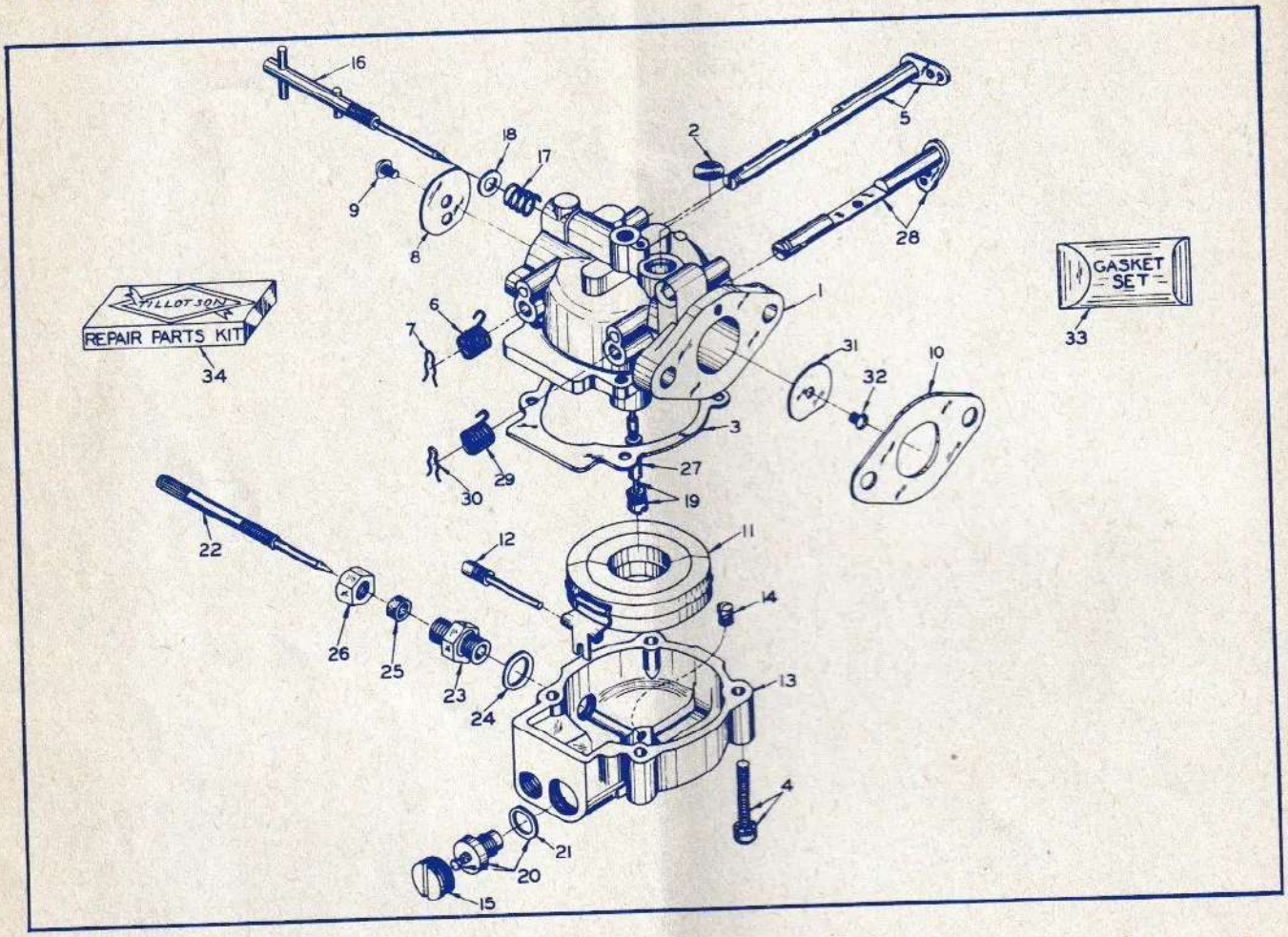
WARNING!

Never raise lower unit above level of power head without first allowing water to drain from under-water exhaust housing.

Always store motor in an upright position.

Do not use so-called outboard motor gasoline or stove gas. Best results are obtained with regular gasoline.

CARBURETOR MODEL MD-66 A--STANDARD ON MODEL V-3L-GS

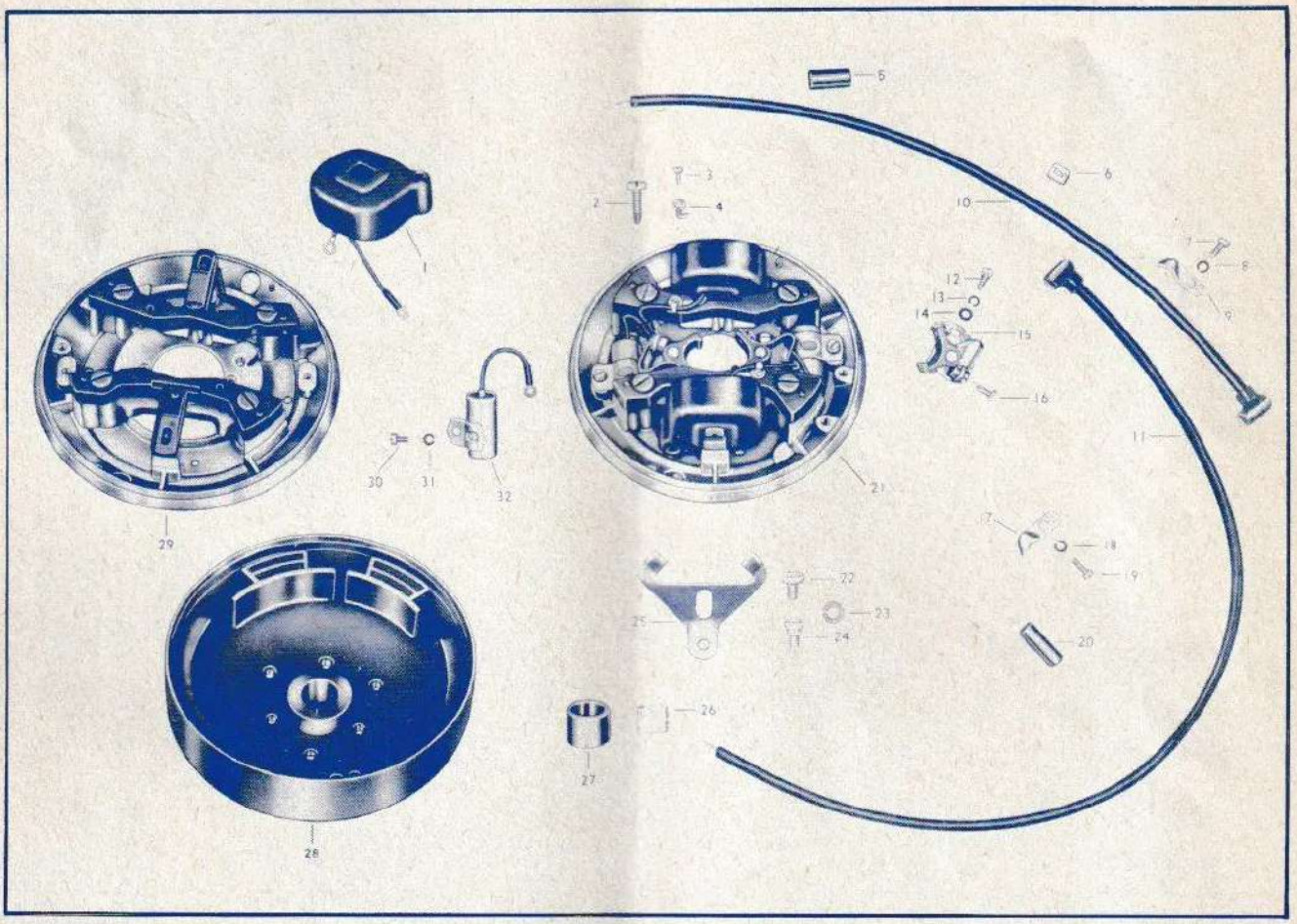


Ref. No.		Part No.	Description
1	1	09733	Body, Upper Half
2	1	*02531	Body Channel Welch Plug
3	1	07903	Body Gasket
4	4	06062	Body Retaining Screw and Lockwasher
5	1	09725	Choke Shaft and Lever
6	1	07944	Choke Return Spring
7	1	08597	Choke Spring Retainer Clip
8	1	08862	Choke Shutter
9	1	05204	Choke Shutter Screw
10	1	05591	Flange Gasket
11	1	07804	Float
12	1	*07901	Float Lever Pinion Screw
13	1	08332	Fuel Bowl
14	1	*03311	Fuel Bowl Drain Screw (small)
15	1	07896	Fuel Bowl Plug Screw (large)
16	1	*09731	Idle Adjustment Screw
17	1	*08736	Idle Adjustment Screw Spring
18	1	*06095	Idle Adjustment Screw Spring Washer
19	1	*09720	Idle Tube and Plug Screw

* Indicates Contents of Repair Parts Kit

Ref. No.		Part No.	Description
20	1	*07895	Inlet Needle, Seat and Gasket
21	1	02510	Inlet Seat Gasket
22	1	*09727	Main Adjustment Screw
23	1	0702	Main Adjustment Screw Gland
24	1	0676	Main Adjustment Screw Gland Gasket
25	1	09112	Main Adjustment Screw Packing
26	1	0703	Main Adjustment Screw Packing Nut
27	1	*08586	Main Nozzle
28	1	09723	Throttle Shaft and Lever
29	1	*07910	Throttle Return Spring
30	1	*08597	Throttle Spring Retainer Clip
31	1	09721	Throttle Shutter
32	1	*05204	Throttle Shutter Screw
33		*09756	GASKET AND PACKING SET
34		09757	REPAIR PARTS KIT
		3L402	Carburetor
		09800	Main Adjustment Screw Assembly

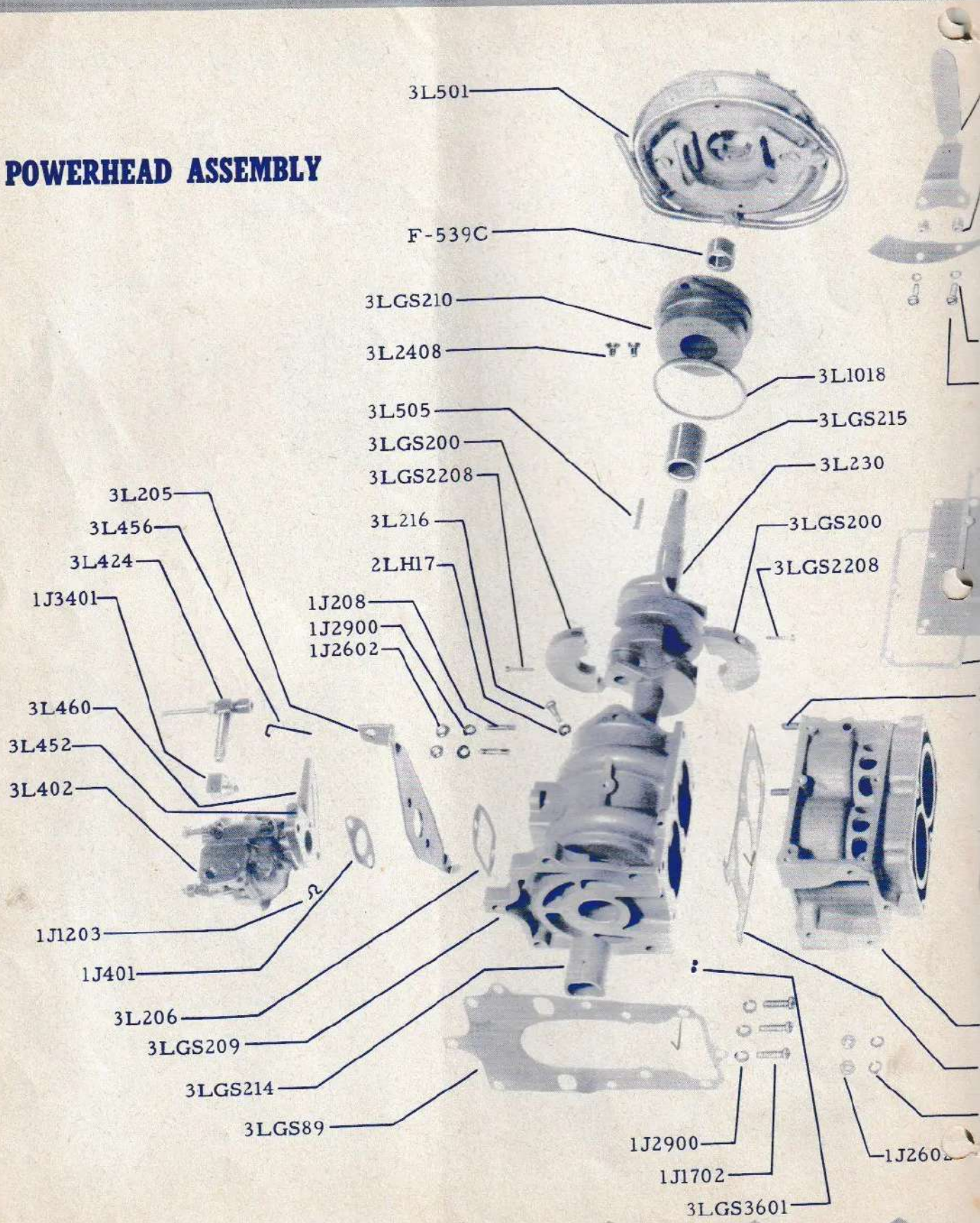
PHELON MAGNETO SPECIFICATION NO. F-514J

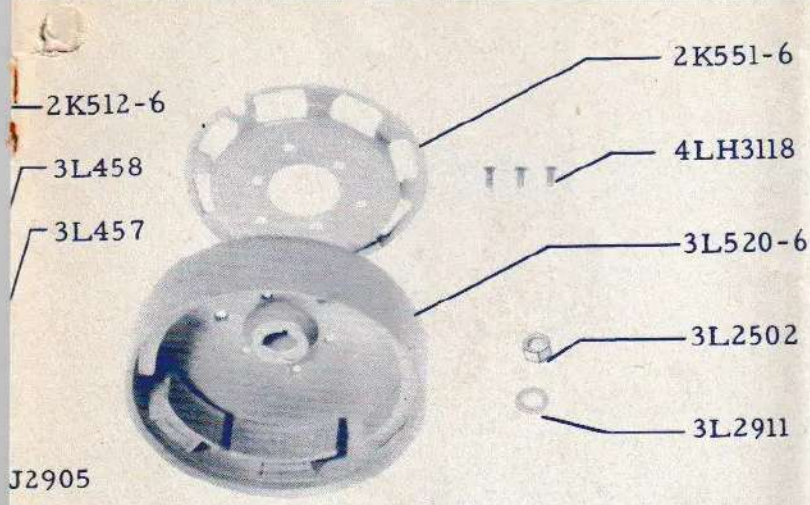


Ref. No.	Part No.	Description
1	FG-608	Coil Assembly
2	F-438	Core Screw
3	F-422	Ground Terminal and Coil Live Lead Clip Screw
4	F-459	Coil Live Lead Clip
5	F-603	Lead Wire Tube
6	F-564	Lead Wire Marker (Top)
7	F-132	Lead Wire Tube Clamp Screw
8	F-147C	Lead Wire Tube Clamp Lockwasher
9	F-542	Lead Wire Tube Clamp
10	FG-1370J	Lead Wire (With "Sparky" Connector)
11	FG-1370J	Lead Wire (With "Sparky" Connector)
12	F-204	Fixed Contact Screw
13	F-147C	Fixed Contact Screw Lockwasher
14	F-247	Fixed Contact Screw Plain Washer
15	FG-626	Breaker Assembly

Ref. No.	Part No.	Description
16	F-601	Breaker Connection Screw
17	F-542	Lead Wire Tube Clamp
18	F-147C	Lead Wire Tube Clamp Lockwasher
19	F-132	Lead Wire Tube Clamp Screw
20	F-603	Lead Wire Tube
21	FG-627	Complete Stator Assembly (less lead wires)
22	F-534	Friction Clamp Screw
23	F-600	Friction Clamp Stud Lockwasher
24	F-535	Friction Clamp Stud
25	F-532	Friction Clamp
26	F-599	Cam Wiper Felt
27	F-539C	Breaker Cam
28	FG-935	Flywheel
29	FG-651	Stator Plate and Core Assembly
30	F-204	Condenser Screw
31	F-147C	Condenser Screw Lockwasher
32	FG-607	Condenser Assembly
	3L501	Magneto

POWERHEAD ASSEMBLY

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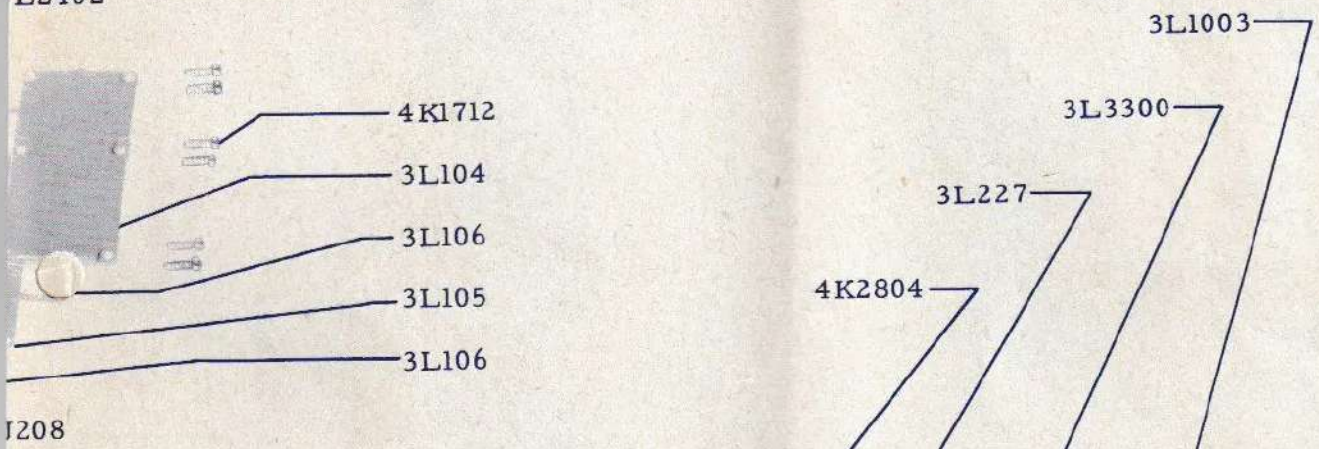
3L457
2K551-6
4LH3118
3L520-6
3L2502
3L2911
J2905
L2402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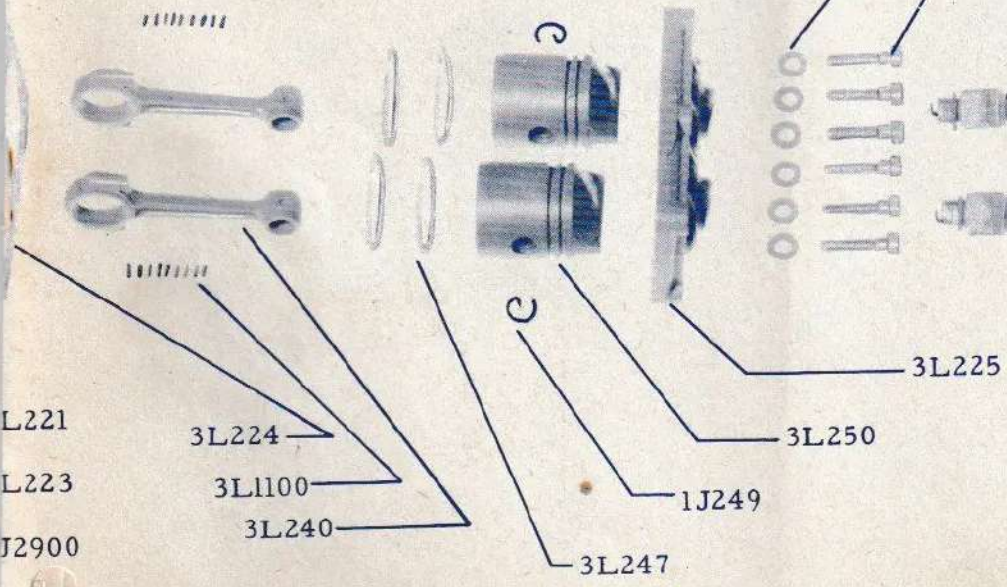
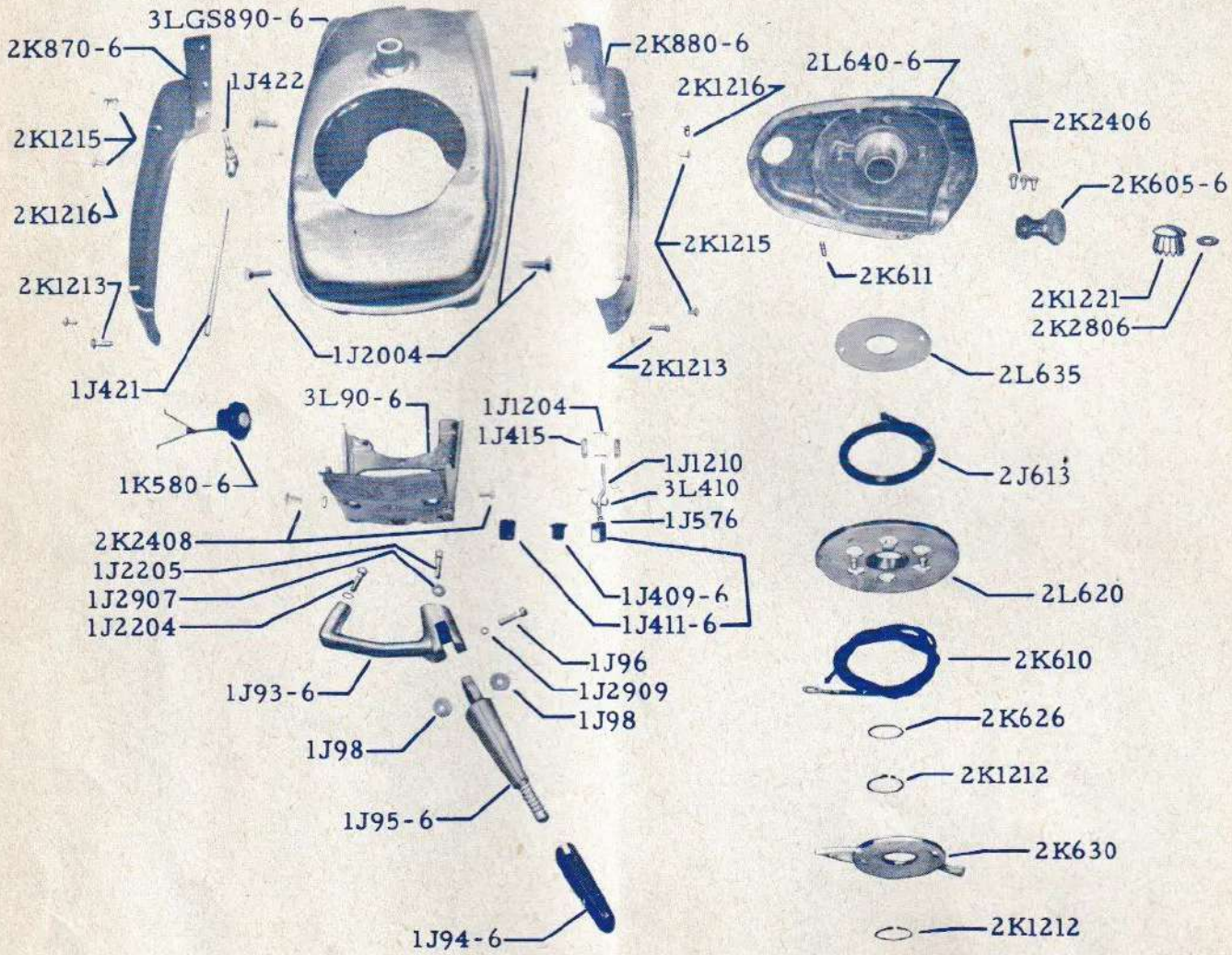
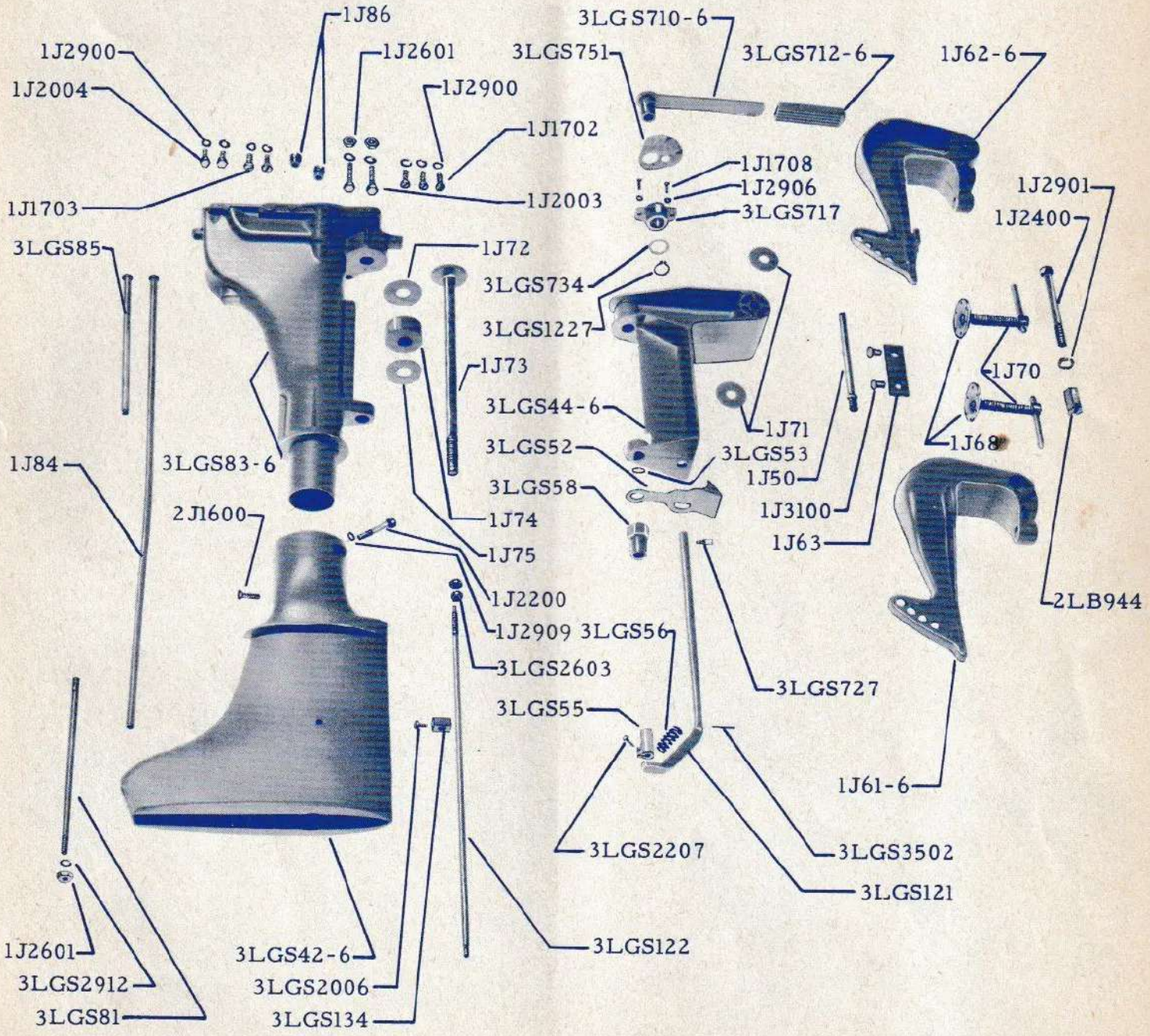
3L104
3L106
3L105
3L106
J208
3L1003
3L3300
3L227
4K2804


3L225
3L250
1J249
3L247
L221
3L224
L223
3L1100
3L240
J2900

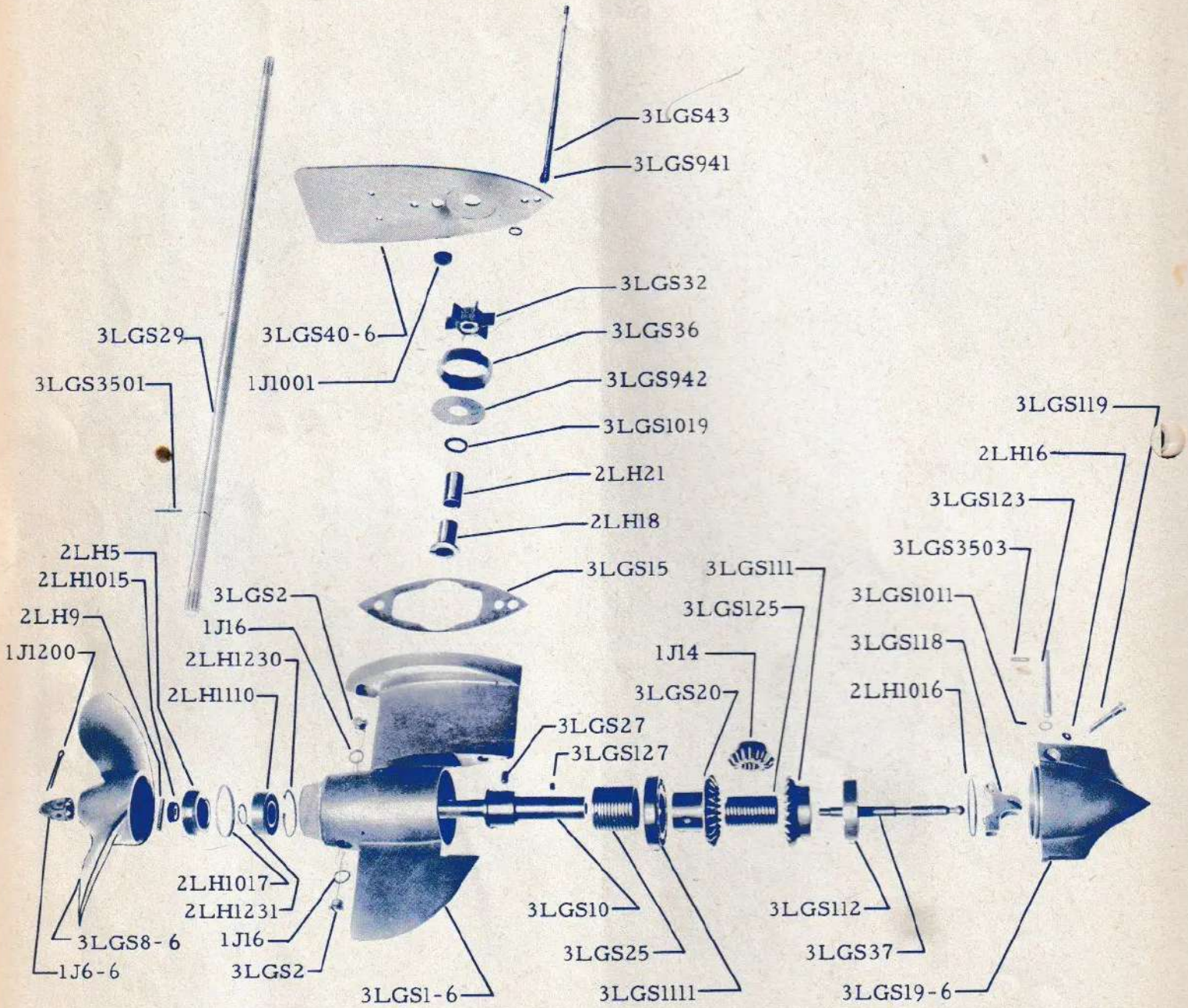
GAS TANK, PANEL, AND STARTER ASSEMBLIES



PIVOT BASE AND BOAT BRACKET ASSEMBLIES



LOWER UNIT ASSEMBLY



PARTS LIST

Part No.	Description	No. Req'd
3LGS1-6	Lower Unit Body	1
3LGS2	Lower Unit Filler and Drain Plug	2
2LH5	Ball Bearing Lock Ring	1
1J6-6	Propeller Nut	1
3L8-6	Propeller	1
2LH9	Shear Pin	1
3LGS10	Propeller Shaft Assembly	1
3LGS13	Drive Gear	1
1J14	Pinion Gear	1
3LGS15	Lower Unit Gasket	1
1J16	Grease Plug Gasket	2
2LH16	Rocker Arm Hinge Pin Gasket	1
2LH17	Gasket (Lock Screw)	1
2LH18	Pinion Gear Bearing	1
3LGS19-6	Lower Unit Cap	1
3LGS20	Drive Gear Assembly	1
2LH21	Driveshaft Center Bearing	1
3LGS25	Drive Spring	1
3LGS27	Drive Spring Friction Pin	1
3LGS29	Driveshaft	1
3LGS32	Water Pump Rotor	1
3LGS36	Water Pump Housing	1
3LGS37	Lower Unit Control Rod	1
3LGS39	Water Pump End Plate (top)	1
3LGS40-6	Anti-cavitation Plate Assembly	1
3LGS42-6	Driveshaft Housing	1
3LGS43	Lower Unit and Driveshaft Housing Stud (Front)	1
3LGS44-6	Motor Tilting Bracket	1
1J50	Boat Bracket Tilting Pin	1
3LGS52	Reverse Lock Catch	1
3LGS53	Reverse Lock Catch Washer	1
3LGS55	Control Rod Adjustment Nut and Guide	1
3LGS56	Reverse Lock Catch Spring	1
3LGS58	Co-Skipper Tension Adjustment Nut	1
1J61-6	Boat Bracket, R.H.	1
1J62-6	Boat Bracket, L.H.	1
1J63	Boat Bracket Spacer Strap	1
1J68	Boat Bracket Clamp Screw Pad	2
1J70	Boat Bracket Clamp Screw Assembly	2
1J71	Tilting Bracket Friction Washer	2
1J72	Pivot Bolt Friction Washer	1
1J73	Pivot Bolt	1
1J74	Co-Pilot Cushion	1
1J75	Pivot Base Washer	1
3LGS81	Lower Unit and Driveshaft Housing Stud (Rear)	1

Part No.	Description	No. Req'd
3LGS83-6	Motor Pivot Base and Tube	1
1J84	Intake Water Line	1
3LGS85	Discharge Water Line	1
1J86	Water Line Fitting	2
3LGS89	Motor Base Gasket	1
3L90-6	Control Panel Assembly	1
1J93-6	Carrying Handle	1
1J94-6	Steering Handle Grip	1
1J95-6	Steering Handle	1
1J96	Steering Handle Bolt	1
1J98	Steering Handle Friction Washer	2
3L104	Exhaust Manifold	1
3L105	Exhaust Manifold Plate	1
3L106	Exhaust Manifold Gasket	2
3LGS111	Reverse Gear	1
3LGS112	Reverse Gear Bearing	1
3LGS118	Rocker Arm	1
3LGS119	Rocker Arm Hinge Pin	1
3LGS121	Upper Shift Rod	1
3LGS122	Lower Shift Rod	1
3LGS123	Rocker Arm Guide	1
3LGS125	Reverse Spring	1
3LGS127	Reverse Spring Friction Pin	1
3LGS134	Lower Shift Rod Lock	1
3LGS200	Center Main Bearing Assembly	1
3L205	Gas Tank Bracket	1
3L206	Carburetor Adaptor Plate Gasket	1
	Carburetor Stud	2
1J208	Cylinder Block Stud	2
3LGS209	Crankcase	1
3LGS210	Top Main Bearing Assembly	1
3LGS214	Bottom Main Bearing	1
3LGS215	Top Main Bearing	1
3L216	Center Main Bearing Lock Screw	1
3L221	Cylinder Block	1
3L223	Cylinder Base Gasket	1
3L224	Head Gasket	1
3L225	Cylinder Head	1
3L227	Cylinder Head Screw	6
3L230	Crankshaft	1
1J243	Connecting Rod Cap Screw	4
3L247	Piston Ring	4
3L248	Wrist Pin	2
1J249	Wrist Pin Lock	4
3L250	Piston and Wrist Pin	2
1J401	Carburetor Gasket	1
3L402	Carburetor	1
1J409-6	High Speed Adj. Knob	1
3L410	Choke Lever Assembly	1
1J411-6	Choke and Shut-off Knob	2

Part No.	Description	No. Req'd
1J415	Choke Lever Link	2
1J421	Gas Line	1
1J422	Gas Line Elbow and Screen	1
3L424	Gas Line Shut-off Valve	1
3L452	Synchronous Control Arm Post	1
3L456	Synchronous Control Adjustment Link	1
3L457	Synchronous Control Cam	1
3L458	Synchronous Control Spacer	2
3L460	Synchronous Control Arm Assembly	1
3L501	Magneto	1
3L505	Flywheel Key	1
2K512-6	Stator Plate Control	1
3L520-6	Flywheel Assembly	1
2K551	Starter Plate	1
1J574	Gas Cap Vent Screw Washer	1
1J576	Choke Lever Spring	1
1J579	Gas Cap Gasket	1
1K580-6	Gas Tank Cap Assembly	1
2K605-6	Ready Pull Handle	1
2K610	Starter Rope Assembly	1
2K611	Starter Spring Anchor Screw	2
2J613	Starter Recoil Spring	1
2L620	Starter Spool Assembly	1
2K626	Spring Washer	1
2K630	Starter Ratchet Assembly	1
2L635	Starter Spring Cover	1
2L640-6	Starter Housing	1
3LGS710-6	Shift Lever Assembly	1
3LGS712-6	Shift Lever Handle	1
3LGS717-6	Shift Bracket	1
3LGS727	Shift Lever Pin	1
3LGS734	Shift Lever Cam Washer	1
3LGS751	Shift Lever Catch	1
2K870-6	Left Shroud Assembly	1
2K880-6	Right Shroud Assembly	1
3LGS890-6	Gas Tank Assembly	1
V-3LGS901	Gas Tank Decal	1
V-3LGS914	Instruction Decal	1
V-3LGS915	Shift Range Decal	1
V-3LGS916	Forward-Neutral-Reverse Decal	1
3LGS941	Anti-cavitation Plate Nut	1
2LB944	Tilting Bracket Friction Bolt Nut	1
1J1001	Water Line Grommet	1
3L1003	Spark Plug Connector	2
3LGS1011	Rocker Arm Guide "O" Ring	1
	Anti-cavitation Plate "O" Ring	1
2LH1015	Propeller Shaft Seal	1
2LH1016	Lower Unit Cap Seal	1
2LH1017	Ball Bearing Lock Ring Seal	1
3L1018	Bearing Adaptor "O" Ring	1

Part No.	Description	No. Req'd
3LGS1019	Driveshaft Seal	1
3L1100	Connecting Rod Needle Bearing	64
2LH1110	Propeller Shaft Ball Bearing	1
3LGS1111	Lower Unit Housing Ball Bearing	1
1J1200	Propeller Nut Cotter Pin	1
1J1203	Synchronous Control Arm Spring Cotter	1
1J1204	Choke Lever Cotter Pin	2
1J1210	Choke Lever Hinge Pin Clip	4
2K1212	Starter Spool Lock Ring	2
2K1213	Shroud Stud - Front	2
2K1215	Shroud Stud	6
2K1216	Shroud Stud Cross Pin	8
2K1221	Starter Handle Plug	1
3LGS1227	Shift Lever Cam Snap Ring	1
2LH1230	Lower Unit Ball Bearing Snap Ring	1
2LH1231	Propeller Shaft Snap Ring	1
2J1600	Driveshaft Housing Lock Screw	1
1J1701	Pivot Base Screw	3
1J1702	Cylinder Block and Crankcase Screw	4
1J1706	Synchronous Control Swivel Screw	1
1J1708	Shift Bracket Screw	2
4K1712	Exhaust Manifold Screw	6
1J2003	Pivot Base and Control Panel Screw	1
3L2003	Pivot Base and Control Panel Screw	2
1J2004	Gas Tank Screw	3
	Motor Base Screw	2
3LGS2006	Shift Rod Lock Screw	1
1J2200	Driveshaft Housing Clamp Screw	1
1J2204	Carrying Handle Screw (Small)	1
1J2205	Carrying Handle Screw (Large)	1
3LGS2207	Control Rod Adjustment Nut Screw	1
3LGS2208	Center Main Bearing Screw	2
1J2400	Tilting Bracket Friction Bolt	1
3L2402	Synchronous Control Cam Screw	2
2K2406	Starter Housing Screw	3
3L2408	Magneto Mounting Screw	2
2K2408	Control Panel Anchor Screw	2
2LH2411	Lower Cavitation Plate Screw	2
2LH2414	Starter Rope Anchor Screw	1
3L2502	Flywheel Nut	1

Part No.	Description	No. Req'd
1J2601	Pivot Base and Control Panel Nut	2
	Lower Unit and Driveshaft Housing Nut	2
1J2602	Carburetor Nut	2
	Crankcase and Cylinder Block Nut	2
3LGS2603	Lower Shift Rod Adj. Nut	2
4K2804	Cylinder Head Washer	6
2K2806	Starter Handle Washer	1
1J2900	Pivot Base Screw Lock Washer	3
	Carburetor Lock Washer	2
	Carrying Handle Screw Lock Washer	1
	Gas Tank Screw Lock Washer	3
	Cylinder Block and Crank-Case Lock Washer	6
	Lower Unit and Driveshaft Housing Stud Lock Washer	1
	Pivot Base and Control Panel Bolt Lock Washer	3
	Motor Base Screw Lock Washer	2

Part No.	Description	No. Req'd
1J2901	Tilting Bracket Friction Bolt Lock Washer	1
1J2905	Stator Plate and Control Cam Lock Washer	2
1J2906	Shift Bracket Screw Lock Washer	2
1J2907	Carrying Handle Screw Lock Washer	1
1J2909	Steering Handle Bolt Lock Washer	1
	Driveshaft Housing Clamp Screw Lock Washer	1
3L2911	Flywheel Nut Lock Washer	1
3LGS2912	Lower Unit Body Stud Lock Washer	1
1J3100	Boat Bracket Rivet	2
4LH3118	Starter Plate Rivet	3
3L3300	Spark Plug	2
1J3401	Carburetor Inlet Elbow	1
3LGS3501	Water Pump Rotor Pin	1
3LGS3502	Reverse Lock Pin	1
3LGS3503	Rocker Arm Guide Pin	1
3LGS3601	Crankcase Plug	2

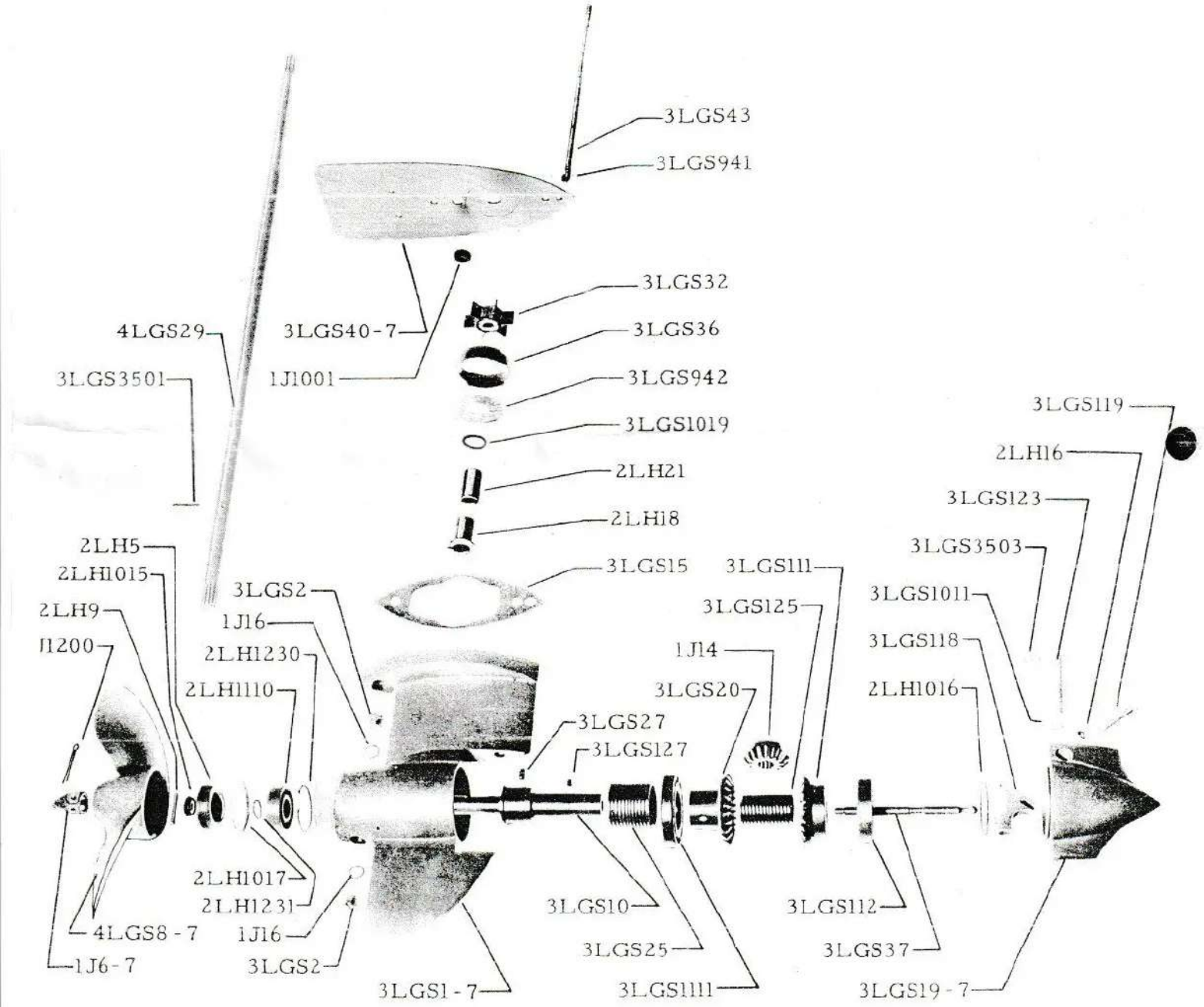
ASSEMBLIES

Part No.	Description	No. Req'd
3LGS990-6-6	Lower Unit Assembly	1
3LGS990-18	Connecting Rod Assembly	
3LGS990-18	(Includes 3L240, 3L1100)	2
3LGS990-19	Piston Assembly (Includes 3L247, 1J249, 3L250)	2
3LGS990-28	Complete Set of Gaskets (Includes 3LGS15, 1J16 (2), 2LH16, 2LH17, 3LGS89, 3L106 (2), 3L206, 3L223, 3L224, 1J401, 1J574, 1J579, 1J1001, 3LGS1011 (2), 2LH1015, 2LH1016, 2LH1017, 3L1018)	1

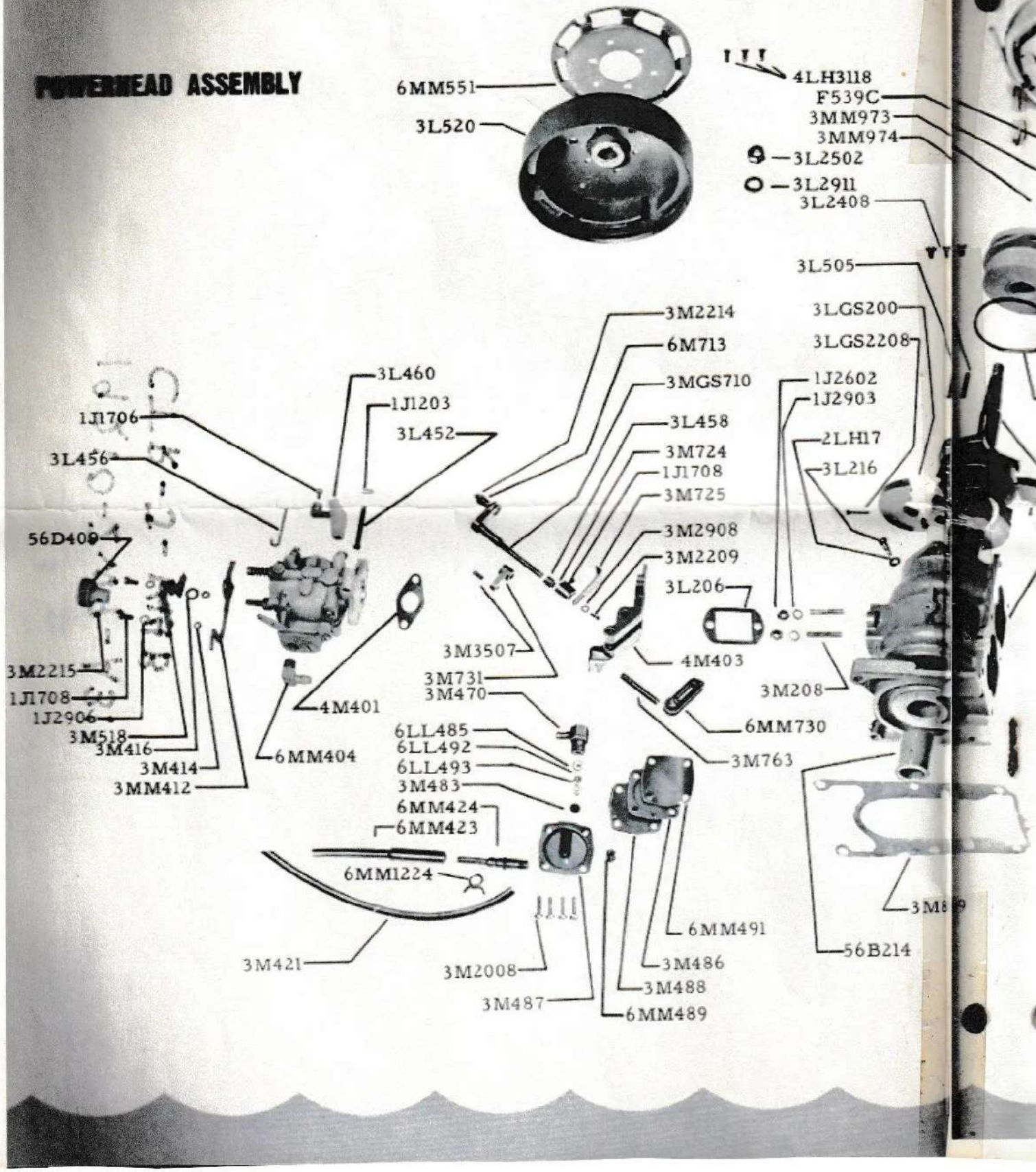
Part No.	Description	No. Req'd
3LGS990-31-6	Starter Housing Assembly (Includes 2K610, 2J613, 2L620, 2K626, 2K630, 2L635, 2L640-6, 2K1212 (2), 2LH2414)	1
2K990-32-6	Ready Pull Handle Assembly (Includes 2K605-6, 2K1221, 2K2806)	1

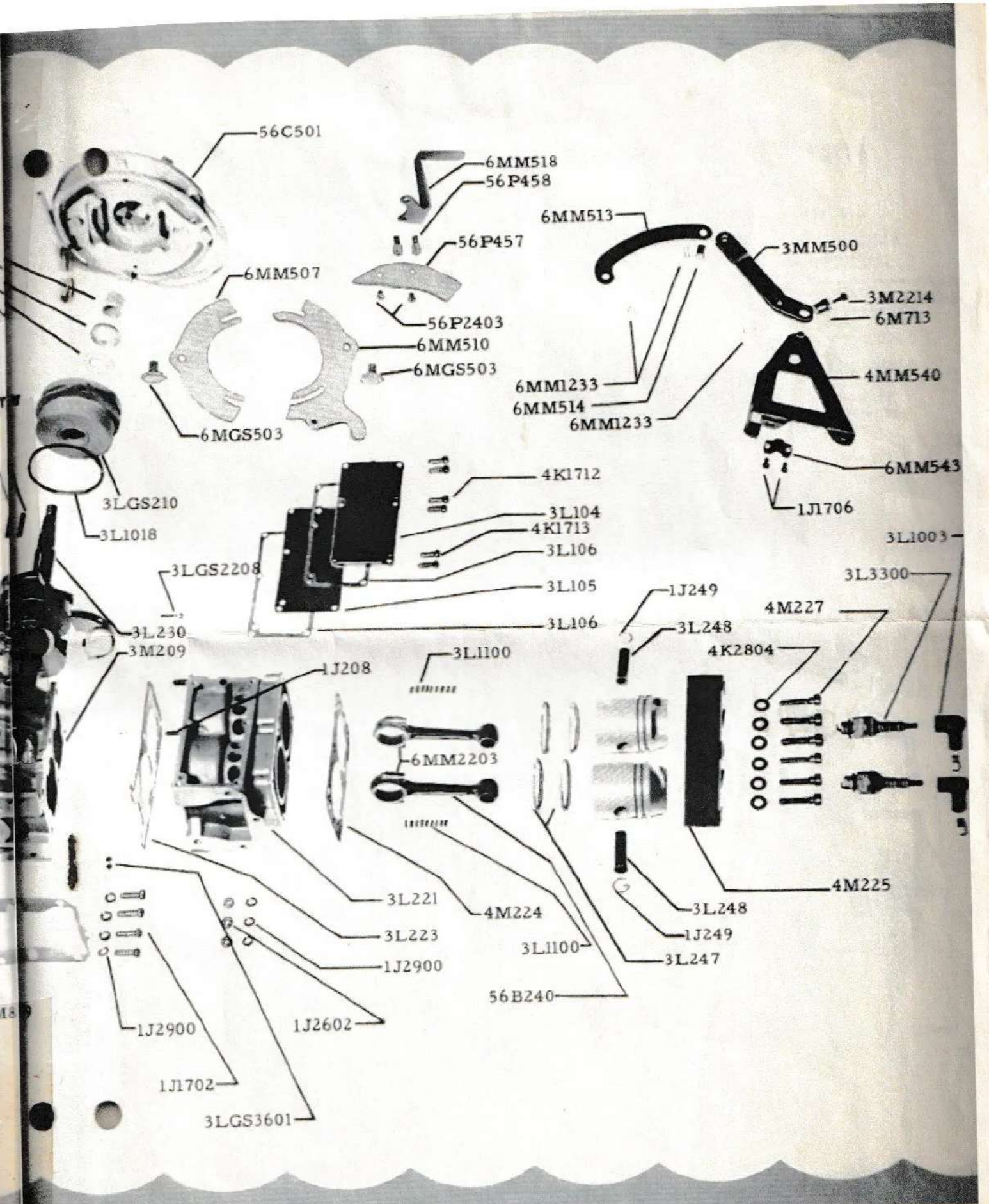
Keep in mind that your Voyager dealer is always ready and anxious to be of service to you. See him should there be some questions about your motor which you do not understand.

LOWER UNIT ASSEMBLY



POWERHEAD ASSEMBLY




56C501
6MM518
56P458
56P457
6MM513
3MM500
3M2214
6M713
6MM507
56P2403
6MM510
6MGS503
6MM1233
6MM514
6MM1233
4MM540
6MGS503
6MM543
1J1706
3LGS210
3L1018
4K1712
3L104
4K1713
3L106
3L105
3L106
3LGS2208
3L230
3M209
3L1003
3L3300
1J249
4M227
3L248
4K2804
3L1100
1J208
6MM2203
4M225
3L248
1J249
3L247
3L1100
3L221
4M224
3L223
1J2900
56B240
1J2900
1J2602
1J1702
3LGS3601

VOYAGER

Golden Rules of Outboarding

1 Respect the rules and regulations of waterway travel. Accidents can be eliminated if everyone possesses a thorough knowledge of outboard boating rules and ethics and then lives up to them.

2 Never cause undue disturbance by running your motor with open exhaust. Be considerate of those who may be seeking the peace and quietness they had hoped their lake place would give them.

3 Assist your fellow outboard enthusiasts should they be in trouble and need help. Perhaps your knowledge of boat and motor operation will help him to solve his problem and likewise add to his hours of pleasure.

4 Avoid running too close to boats containing fishermen so as not to spoil their favorite phase of outdoor recreation. This is one of the many rules of good sportsmanship.

5 Never overload your boat. Make sure that it is of proper size, construction and in good condition then carry only the number of passengers it can transport safely. When renting a boat, inspect it carefully and follow the above suggestions.

6 Avoid stormy weather. If you are caught out in a heavy storm, proceed at moderate speed, seat all passengers on the floor, head into the wind at a slight angle and remain calm.

7 Give the right-of-way to larger craft. Your small outboard is more easily maneuvered than larger boats. Practice good seamanship; give all boats a wide berth when passing.

8 It is good sportsmanship to give the swimmer a fair break. Never run your boat near a swimming beach. Should it be necessary to do so, slow down and observe the rules of good seamanship.

9 Don't stand up. Standing up in any small boat can be dangerous. Sit down! It's safer.

10 Always wipe surplus gasoline and oil that may accumulate on the stern seat of your boat. While the fire hazard is very remote, it is well to practice precaution at all times.

Practice good sportsmanship and regard for others when traveling the waterways. Outboard boating is a pleasant, healthful form of recreation. Help others enjoy it!

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