

MODEL 6M-GS
"FEATHERWEIGHT 15"

POWER SHIFT

FORWARD - NEUTRAL - REVERSE

OPERATING INSTRUCTIONS

AND

REPLACEMENT PARTS

"JUBILEE" CHAMPION MODEL 6M-GS

"FEATHERWEIGHT 15"

SPECIFICATIONS

Model 6M-GS	"Featherweight 15"
Gearshift	Forward - Neutral - Reverse
Horsepower	15 H.P. O.B.C. certified
Two Cylinder	Bore 2½"; Stroke 2 1/32"
Piston Displacement	Bore 2½"; Stroke 2 1/32"
Valves	19.94 cu. in.
Ignition	Tillotson Dual jet concentric bowl type
Storton	Phelon Magneto
Duccinig	Automotic as alt
Water Pump	Positive Potomy
Controls	Twist Crin Controls
Spark Plugs	Champion IST 14 mm
Connecting Rods F	orged steel with Torrington needle bearings
Lubrication Pressure lubricat	ted main, crankshaft and wriet nin boomings
Propeller	Sent 2 blad.
Drive Gears	8x11, 3 blade Zerol cut for quiet operation
Gear reduction	26701 cut for quiet operation 14 to 24
Gas Tank, Separate Cruising	6 gal. capacity
Die-cast aluminum parts Alm	ok tracted to provide the same of the same
Speed Range	ok treated to prevent salt water corrosion
Weight	0 to 30 miles per hour
is cigiit	Approximately 57 lbs.

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.

Champion Motors Company Minneapolis, Minn.

"JUBILEE" CHAMPION

Model 6M-GS

INSTRUCTION MANUAL

KNOW YOUR CHAMPION

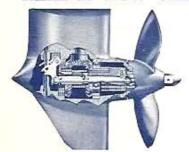
Your new "JUBILEE" Champion is so new in design and performance we like to consider each new owner as never having had an outboard motor before. With one hand you have complete control of boat and motor. You shift to Forward and control the speed to full throttle. You can shift from Forward into Neutral or into Reverse without removing your hand from the steering handle.

—a "COMPLETE" motor with no extra cans or funnels to carry. The automotive type fuel pump, pumps through a single line from the Champion fully vented, non-pressurized Cruising Tank.

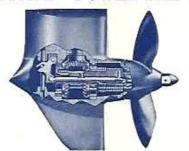
fully vented, non-pressurized Cruising Tank.

Champion's "EZ-Off Hood" gives complete access to the Powerhead and related components;
Starter, Spark Plugs, Magneto, Carburetor and Fuel Pump. Three conveniently located screws, which loosen and unlock the hood, remain attached to the shroud for EZ re-installation.

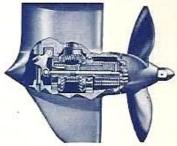
HERE IS HOW CHAMPION'S "POWER-SHIFT" CLUTCH WORKS



FORWARD



NEUTRAL



REVERSE

When you turn the Shift Control to Forward position the Lower Unit Control Rod (3MGS37) slides forward moving the Drive Spring Friction Pin (3LGS27) up engaging the Drive Spring (6MGS25), which smoothly "Wrap Locks" for positive drive. With Steering Handle in Neutral, Control Rod allows Friction Pins to recess releasing Springs for free turning. In Reverse, Control Rod slides back forcing Reverse Spring Friction Pin (3LGS127) up engaging the Reverse Spring (6MGS125), which smoothly "Wrap Locks" for positive Reverse.

With Champion's exclusive Magic Wand synchronized Throttle and Shift Control you have built-in safety. You CANNOT shift at the WRONG engine speed.

For your convenience Champion had engineered the "Swing-In-To-Boat" feature for easy access to lower unit. WITH THE MOTOR COMPLETE-LY STOPPED, turn engine to your right, tilt out of water, and swing Lower Unit into boat.

The new "JUBILEE" Champion, with separate Gas Tank, is lighter, cleaner and easier to handle

OPERATING PROCEDURE 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 can result in premature wear and unnecessary expense.

Your new "JUBILEE" Champion is a two cycle engine and the lubrication of the Pistons, Cylinders, Connecting Rods and Crankshaft Bearings is supplied by oil mixed with gasoline. The proportions of this mixture and the grades of gasoline and oil are very important.

We recommend the use of any nationally advertised outboard motor oil such as Mobiloil Outboard or Texaco Outboard Motor Oil. Mix oil with any regular grade of gasoline (72 Octane rating or better), using ½ Pint of Oil to One Gallon of Gasoline for normal operation after break - in period.

Your new precision engineered "JUBILEE"
 Champion is designed to give years of satisfaction. Keep it clean—it will look better and live longer.

MOTOR ADJUSTMENTS CARBURETOR ADJUSTMENTS

- Close idle adjustment screw until it is snug (do not force needle against seat). Then open idle screw approximately ¾ turn.
- 2. To re-adjust high speed setting, loosen set screw in High Speed Adjustment Lever with 5/64 Allen Wrench (furnished in Instruction Envelope). Turn needle shaft clockwise for leaner mixture or counter-clockwise for richer mixture until motor runs smoothly at high speed. At this setting align adjusting lever in a vertical position and re-tighten set screw.
- Move Steering Handle Control to "SLOW" position. The motor should now idle slowly. However, atmospheric changes and fuel mixtures may require opening or closing the idle adjustment screw slightly.

TILT PIN ADJUSTMENT FOR BEST PERFORMANCE

1. Best performance will be realized by having the propeller shaft on a horizontal plane with regard to the bottom of the boat. Set tilt pin so that anti-cavitation plate (large plate immediately above propeller) is on a horizontal plane approximately one inch below the bottom of the boat or keel. To tilt motor too far under will tend to push the bow down. To tilt too far out will tend to push the stern down, consequently eliminating top performance or causing cavitation.

CO-PILOT

 Steering tension is regulated by Co-Pilot Adjustment Nut (1J2701).

REVERSE LOCK

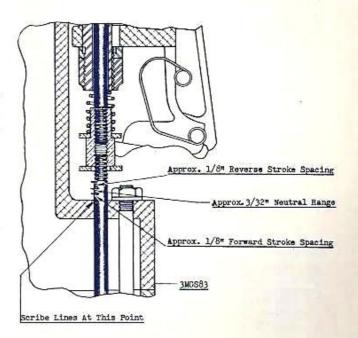
Should the reverse lock, which engages automatically when the motor is shifted into Reverse, fail to hold motor from tilting up, remove Reverse Lock Catch Pin (3M51) and Reverse Lock Catch (3M52) giving access to Reverse Lock Guide Body (3M55), which when screwed down (clockwise) will cause Reverse Lock Catch to engage sooner and deeper. Experimental adjusting will produce proper setting. Catch should not engage when Steering Handle is in Forward position.

NOTE: Shifting too rapidly into Reverse may cause Lower Unit to drag and tilt up before Reverse Lock Catch engages.

TO CHECK OR RE-SET SHIFT ROD ADJUSTMENT

Use the following procedure:

Place control in full reverse and then scribe a line on lower shift rod flush with Pivot Base Casting (3MGS83). Maintaining a hand pressure on the propeller in a counter-clockwise direction, turn handle slowly in the "Forward" direction until propeller just breaks free. At this point scribe another line on Shift Rod. Now rotate the



Propeller clockwise and at the same time again turn handle slowly until the Propeller just en-gages. At this point, scribe another line on Shift Rod. Then turn handle the rest of the way to complete the stroke, and scribe another line on the Shift Rod. Properly adjusted, the spacing of scribed lines should be as per sketch, with the forward and reverse being equal to each other.

To lengthen the forward stroke, set Control in full reverse, and screw Reverse Lock Guide Body up until it just breaks free of Lower Shift Rod. Then turn Guide Body up onto Upper Shift Rod just one complete revolution. Now raise Lower Shift Rod until it just contacts Guide Body. Holding Lower Shift Rod in this position, screw Guide

Body back onto it.

To lengthen the reverse stroke, follow same procedure, except to screw Guide Body off of Upper Shift Rod one complete revolution, after pushing Lower Shift Rod down for clearance.

To replace or re-set Control Wire (3M450) set handle so that reverse stroke spacing is approximately 1/8 inch as per sketch. Loosen Set Screw (3M2214), hold Control Shaft Arm (3M712) stationary and turn handle clockwise to the reverse notch. Tighten Set Screw.

If Lower shroud has been removed, proper adjustment of shifting stroke can be made by removing Upper Control Rod Hinge Pin (3M732) and turning Upper Shift Rod up or down to ob-

tain correct spacing.

SYNCHRONOUS CONTROL ADJUSTMENTS

MAGNETO CONTROL ADJUSTMENT

Turn Steering Handle counter-clockwise to full throttle position. Stator Plate should now be in full advance position. (The Stator Plate Control Pitman (6M500) at bottom of Stator Plate Control Arm (3M511) groove). If not, loosen Control Shaft Arm Pivot Screw (6LL2213) and make proper adjustment. A small allowance should be made for slack in linkage. Stator plate should rotate freely after clamp screws are tightened.

THROTTLE ADJUSTMENT

 Adjustment Link Collar (6LL455) should be set so that throttle is fully closed at slow speed and fully open at high speed. The angle and height of the 6MGS725 Upper Control Arm is adjustable and should be set so that the throttle is fully open in forward gear but closed when in neutral.

MAINTENANCE REMOVING THE "E-Z OFF HOOD"

(6MGS990-22 Starter Housing and Engine Cover Assembly.)

1. Loosen the Front Shroud Screw (1J1601) and the two Rear Shroud Screws (3M2102). (These screws loosen and unlock the cover but remain attached for E-Z re-installation.)

AUTOMATIC RE-WIND STARTER

1. With Starter Housing and Engine Cover removed, emergency Starter Plate is accessible for use while making adjustments on motor or Starter.

SPARK PLUGS

1. The 14MM Champion J-8J is the proper type plug for this motor. They should be kept clean and the gap set at .030 inch. 2. Common causes of Spark Plug failure.

- a. Carburetor setting too rich may cause fouling, too lean may cause overheating.
- b. Improper mixture of fuels-see "Lubrication" section.
- c. Improper gap setting.

MAGNETO

- 1. Ordinarily these Magnetos will operate over extended 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 by removing the High-Tension Cables from the Spark Plugs. Remove plugs and re-connect cables. Be sure to hold the threaded portion of plugs against some grounded part of motor. Then turn Flywheel at normal cranking speed. A weak spark or no spark at all may indicate Magneto trouble. The following service steps should be taken:
 - a. Remove the Flywheel. Three tapped holes are provided to adapt a Flywheel puller.
 - b. If the contact points are dirty they can be cleaned with a little clear carbon tetrachloride or noninflammable solvent. 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 com-
 - plete new contact breaker assembly. c. The contacts should have 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. Points should be set with Cam Follower on highest position. If there still is no spark, the coll or condenser may be defective. Any autho-

rized Champion Service Station can correct the situation.

d. 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.

FUEL SYSTEM

- This system includes gas lines, fuel pump, primer and coupling, and gas tank.
- For better operating results:
 - Thoroughly mix and strain fuel.
 Keep tank, lines and coupling clean.
 - 3. Watch for and correct leaks in fuel system.
 - a. Excessive air bubbles in 3M421 Gas Line (other than during priming) indicate a leak in fuel system.
- To drain pump and carburetor, remove Coupler and run engine until dry.

COOLING SYSTEM

- Water for cooling is provided by a "Positive Rotary Impeller" pump.
- 2. Always be sure engine is cooling properly by watching for the tell-tale stream of water from outlet on bottom of Cylinder Head.
- Should water fail to discharge:
 - a. Stop engine immediately.
 b. Check intake holes on front of Lower Unit Body (3LGS1) and outlet on Cylinder Head

for obstructions.

Use care if running motor in small test tank, re-using water continuously may cause overheating. Be sure water level is above intake opening.

LOWER UNIT

When draining the lower unit, the Filler Plug and Vent Screw should be removed and the motor placed in a vertical position to allow the oil to drain out.

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 Plug. An oil can, preferably the pump type, should be used for filling the unit.

INSTRUCTIONS FOR COLD WEATHER USE

- Cold weather will not affect the running of your motor. However, to prevent freezing, when idle even for a few hours, drain water from motor by placing it in an upright position and pulling Starter Rope a few times.
- and pulling Starter Rope a few times.

 2. For long period storage see section "Instructions for Storing Motor."

INSTRUCTIONS FOR STORING MOTOR

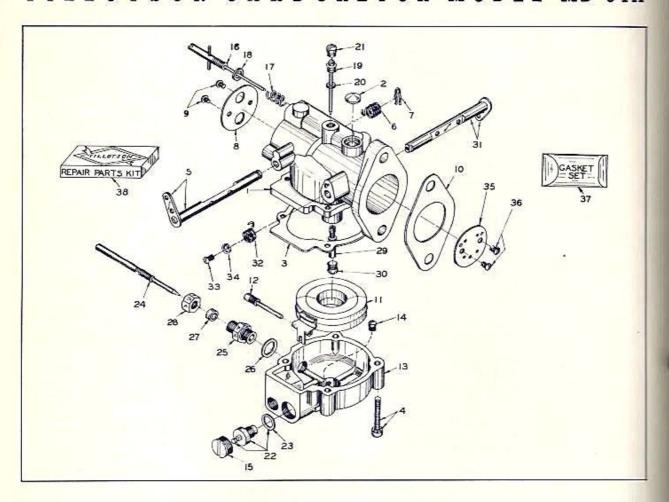
- Drain fuel system by running motor with Fuel Line Coupler disconnected from motor.
- Drain water from motor by placing it in an upright position and pulling Starter Rope a few times.
- Drain and refill Lower Unit (See section on "Lubrication.")
- Remove Spark Plugs and pour about two ounces of oil in each cylinder.
- 5. Squirt similar amount into Carburetor Intake.
- 6. Turn motor over several times in Reverse direction. This will spread oil and also lay water pump impeller blades in reverse position so that when motor is started, blades will not have acquired a permanent set in one position.
- Store upright in clean dry place. We suggest that specially designed shipping carton be used.

SPRING CHECK-UP SUGGESTIONS

- 1. Remove plugs and clean or replace.
- a. See "Maintenance Section" on Spark Plugs.
- 2. Pull motor over several times with Starter Rope.
 - Wipe excess oil from around Spark Plug holes and replace Spark Plugs.
- Wipe entire motor clean and inspect for parts broken or out of adjustment.
- Put drop of light S.A.E. motor oil on all working parts and friction points.

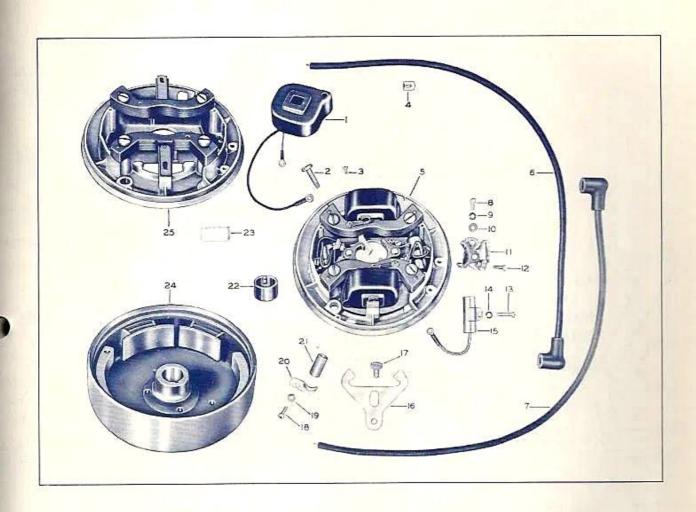
Keep in mind that your Champion dealer is always ready and anxious to be of service to you. See him should there be some questions about your motor which you do not understand.

TILLOTSON CARBURETOR MODEL MD-84A

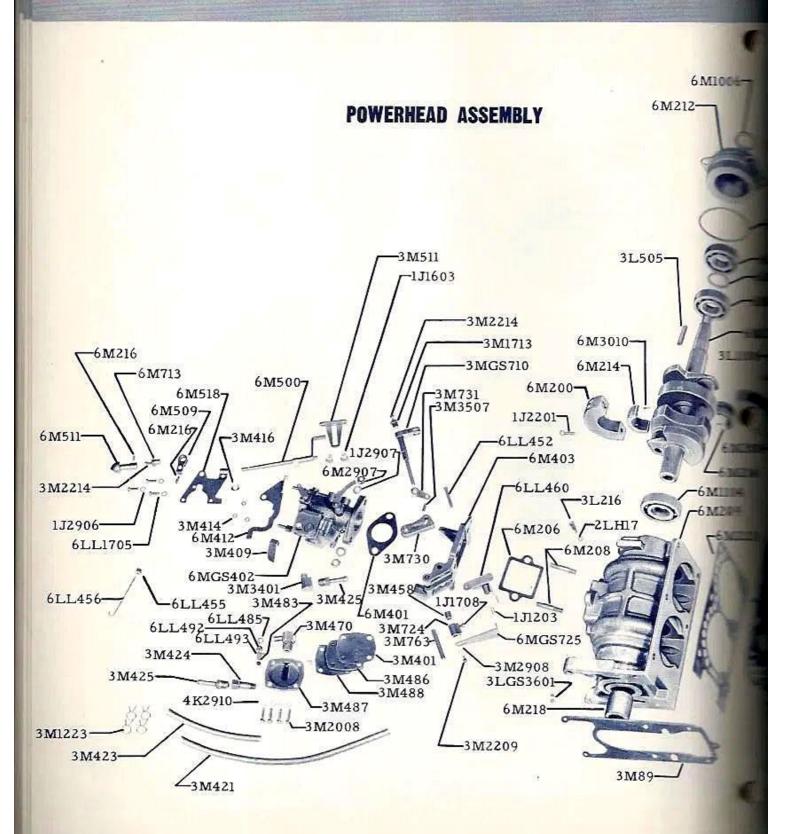


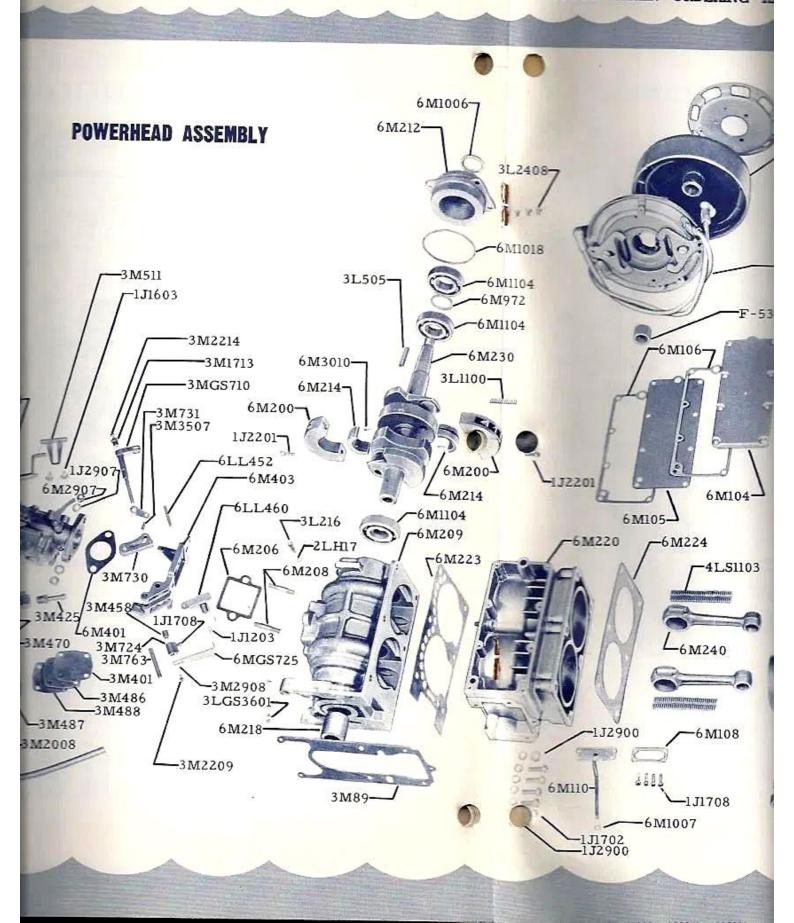
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No.	Req.	Part No.	Description	No.	Req.	Part No.	Description
1	1	010164	Body, Upper Half	20	1	06569	Idle Tube Gasket
2	1	*02531	Body Channel Welch Plug	21	1	*02395	Idle Tube Channel Plug Screw
3	1	07903	Body Gasket	22	1	*07895	Inlet Needle, Seat and Gasket
4	4	06062	Body Retaining Screw & Lockwasher	23	1	02510	Inlet Seat Gasket
5	1	010157	Choke Shaft and Lever	24	1	*010162	Main Adjustment Screw
2 3 4 5 6 7	1	07910	Choke Shaft Return Spring	22 23 24 25 26	1	0702	Main Adjustment Screw Gland
7	1	08597	Choke Shaft Return Spring Retaining Clip	26	1	0676	Main Adjustment Screw Gland Gasket
8	1	09079	Choke Shutter	27	1	09112	Main Adjustment Screw Packing
8	2	05204	Choke Shutter Screws	28	1	0703	Main Adjustment Screw Packing Nut
10	1	06833	Flange Gasket	27 28 29 30 31	1	*010146	Main Nozzle
11	1	07804	Float	30	1	01102	Main Nozzle Channel Plug Screw
12	1	*07901	Float Lever Pinion Screw	31	1	010163	Throttle Shaft and Lever
13	1	08332	Fuel Bowl	32	1	*08647	Throttle Shaft Return Spring
14	1	03311	Fuel Bowl Drain Screw (Small)	33	1	*06393	Throttle Cam Lever Retaining Screw
15	1	07896	Fuel Bowl Plug Screw (Large)	34	1	*06396	Throttle Cam Lever Retaining Screw
16	1	*010153	Idle Adjustment Screw				Lockwasher
17	1	*05725	Idle Adjustment Screw Spring	35	1	010145	Throttle Shutter
10 11 12 13 14 15 16 17 18	1	06095	Idle Adjustment Screw Spring Washer	35 36 37	2	*05204 *09330	Throttle Shutter Screws GASKET AND PACKING SET
19	1	*010154	Idle Tube	38		RK-139	REPAIR PARTS KIT
	Indic		nts of repair parts kit				

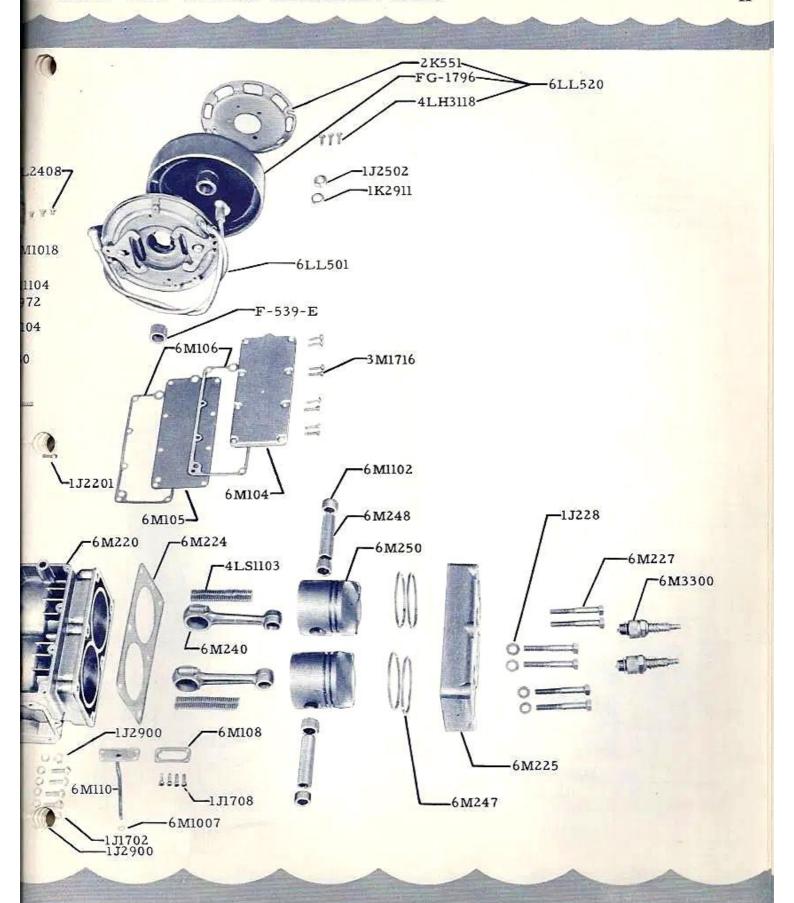
PHELON MAGNETO SPECIFICATION NO. F-514M



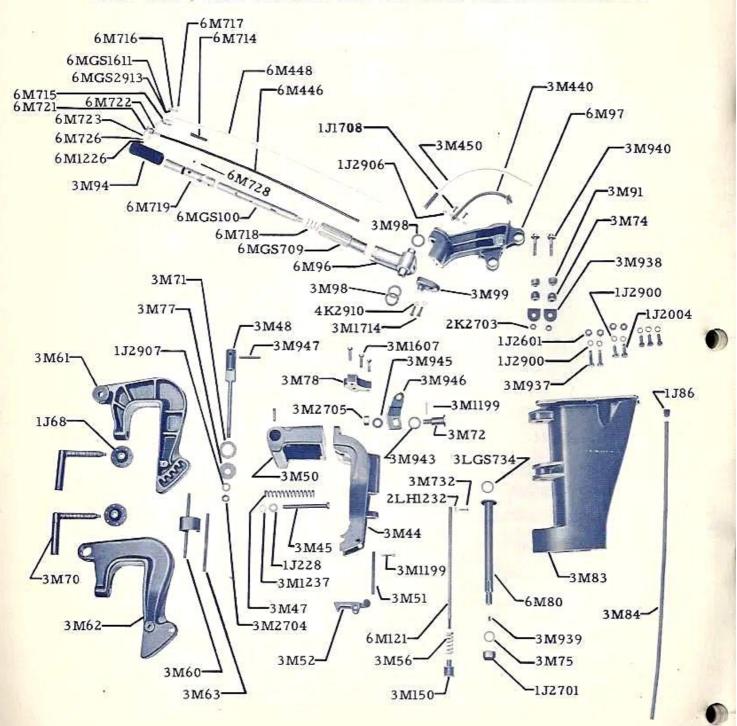
Ref	Part No.	Description	Ref No.	Part No.	Description
1	FG-1835	Coil Assembly	13	F-1356	Condenser Screw
2	F-438	Core Screw	14	F-147C	Condenser Screw Lock Washer
3	F-422	Ground Terminal Screw.	15	FG-1770	Condenser Assembly
1	F-564	Lead Wire Marker (Top)	16	F-1826	Friction Clamp
5	FG-1797	Complete Stator Assembly	17	F-534	Friction Clamp Screw
6	FG-1370M	Lead Wire	18	F-132	Lead Wire Tube Clamp Screw
7	FG-1370N	Lead Wire	19	F-147C	Lead Wire Tube Clamp Screw
8	F-204	Fixed Contact Screw			Lock Washer
	F-147C	Fixed Contact Screw Lock	20	F-1775	Lead Wire Tube Clamp
9	I-IIIC	Washer	21	F-603	Lead Wire Tube
10	F-247	Fixed Contact Screw Plain	22	F-539E	Breaker Cam
10	T-AT.	Washer	23	F-906	Cam Wiper Felt
11	FG-626	Breaker Assembly	24	FG-1796	Flywheel
	F-601	Breaker Connection Screw	25	FG-1793A	Stator and Core Assembly

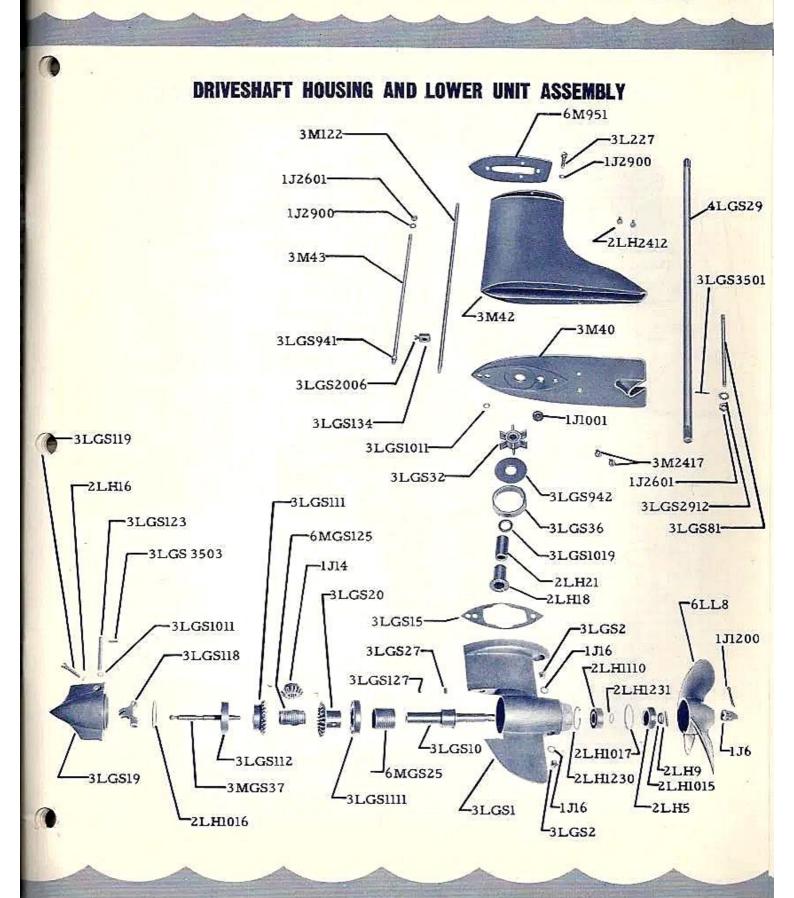




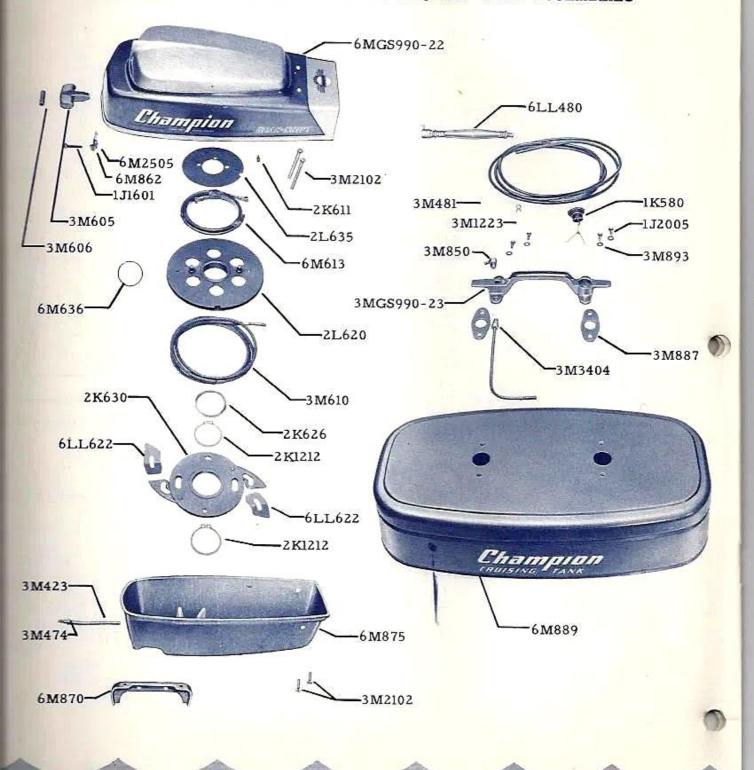


PIVOT BASE, BOAT BRACKET AND STEERING HANDLE ASSEMBLIES





STARTER HOUSING AND ENGINE COVER, GAS TANK ASSEMBLIES



PARTS LIST

Part No.	No. Description Req	No.	Decemention	No.
3LGS1		2000		Req'
	Lower Unit Body	3M89	Motor Base Gasket	. 1
3LGS2	Lower Unit Filler and Drain	3M91	Co-Pilot Cushion (Top)	. 2
	Plug2	3M94	Steering Handle Grip	. 1
2LH5	Ball Bearing Lock Ring 1	6M96	Steering Handle Pivot	. 1
1J6	Propeller Nut 1	6M97	Steering Handle and Co-Pilot	
6LL8	Propeller 1	(H) 9955948650	Bracket	1
2LH9	Shear Pin1	3M98	Steering Handle Friction	
3LGS10	Propeller Shaft Assembly 1		Washer	2
1J14	Pinion Gear1	3M99	Steering Handle Support Cap	1
3LGS15	Lower Unit Gasket 1	6MGS100	Steering Handle Tube Assembly	1
1J16	Grease Plug Gasket 2	6M104	Exhaust Manifold	1
2LH16	Gasket, Rocker Arm Hinge Pin 1	6M105	Exhaust Manifold Plate	1
2LH17	Gasket, Lock Screw 1	6M106	Exhaust Manifold Gasket	
2LH18	Pinion Gear Bearing 1	6M108	Water Passage Cover Plate	-
3LGS19	Lower Unit Cap 1	OMITOS	Cocket	7
3LGS20	Drive Gear Assembly 1	CMILLO	Gasket	. 1
2LH21	Driveshaft Center Bearing 1	6M110	Water Passage Cover Plate	947
6MGS25	Drive Spring 1	OT (CC111	Assembly	. 1
	Drive Spring Frigition Din 1	3LGS111	Reverse Gear	. 1
3LGS27	Drive Spring Friction Pin 1	3LGS112	Reverse Gear Bearing	. 1
4LGS29	Driveshaft 1	3LGS118	Rocker Arm	. 1
3LGS32	Water Pump Rotor 1	3LGS119	Rocker Arm Hinge Pin	1
3LGS36	Water Pump Housing 1	6M121	Upper Shift Rod	1
3MGS37	Lower Unit Control Rod 1	3M122	Lower Shift Rod	1
3M40	Anti-cavitation Plate Assembly 1	3LGS123	Rocker Arm Guide	1
3M42	Driveshaft Housing 1	6MGS125	Reverse Spring	1
3M43	Lower Unit and Driveshaft	3LGS127	Reverse Spring Friction Pin	1
	Housing Stud (Front) 1	3LGS134	Lower Shift Rod Lock	7
3M44	Tilting Bracket1	3M150	Reverse Lock Guide	ī
3M45	Swivel Lock Pin1	6M200	Center Main Bearing Assembly	1
3M47	Swivel Lock Spring 1	6M206	Carburetor Adaptor Plate	S===
3M48	Tilting Bracket Cam Stud 1	01.1200	Gasket	1
3M50	Tilting Bracket Assembly	1J208	Cylinder Block Stud	+
01400	(Front) 1	6M208	Carburetor Stud	7
3M51	Reverse Lock Catch Pin 1	6M209	Chaptroon	4
3M52	Reverse Lock Catch 1	6M212	Crankcase	1
3M56	Reverse Lock Catch Spring 1		Magneto Mounting	1
3M60	Tilting Pin Spring Assembly 1	6M214	Center Main Bearing Race	1
3M61	Boat Bracket, R.H. 1	3L216	Screw, Center Main Bearing	72
3M62	Post Proglect I II	03.604.0	Lock	1
Charles Control of	Boat Bracket, L.H. 1	6M216	Screw, Stator Plate Indicator	1
3M63	Boat Bracket Tilting Pin 1		Screw, Stator Shaft Arm	1
1J68	Boat Bracket Clamp Screw Pad 2	6M218	Bottom Main Bearing Seal	1
3M70	Boat Bracket Clamp Screw	6M220	Cylinder Block Assembly	1
RS-DATEA	Assembly2	6M223	Cylinder Base Gasket	1
3M71	Tilting Bracket Friction Washer	6M224	Head Gasket	1
ACTO-ANTO	(Large I.D.)	6M225	Cylinder Head	1
3M72	Tilting Bracket Shoulder Bolt 1	3L227	Screw, Pivot Base and Drive-	THE STATE OF THE S
3M74	Co-Pilot Cushion (Bottom) 2		shaft Housing	1
3M75	Pivot Bolt Spacer 1	6M227	Screw, Cylinder Head	6
3M77	Tilting Bracket Friction Washer 1	1J228	Washer, Swivel Lock Pin	1
3M78	Co-Pilot Fibre1	10000	Washer, Cylinder Head	1
6M80	Pivot Bolt1	6M230	Crankshaft	1
3LG681	Lower Unit and Driveshaft	6M240	Connecting Ped Assaults	1
	Housing Stud (Rear) 1	1J243	Connecting Rod Assembly	4
3M83	Motor Pivot Base 1	\$25255 Sept 200 City	Connecting Rod Cap Screw	4
3M84	Intake Water Line 1	6M247	Piston Ring	4
1J86	Water Line Fitting 1	6M248	Wrist Pin	2
1000	water Line Fitting	6M250	Piston	2

Part No.	Description	No. Req'd	No.	Description	No. Req'd
	Carburetor Gasket	1	2K630	Ratchet Assembly	1
6M401	Carburetor	1	2L635	Spring Cover	ī
6MGS402	Carbureton Adopton Plate	÷	3M636	Starter Spool Shim	As.Rea'd
6M403	Carburetor Adaptor Plate	··· †	6M641	Starter Housing and Engin	na area a
3M409	High Speed Adjustment Knob	1	0141041	Cover	1
6M412	Carburetor Choke Lever	1	CMCC700	Cover Shift Control	7
3M414	Spacer, Carburetor Choke	•	6MGS709	Control Shaft Assembly	
0.0000000000000000000000000000000000000	Lever	3	3MGS710	Control Shaft Arm Pivot	1
3M416	Spring Washer, Choke Lever	1	3M713	Stator Shaft Arm Pivot	
3M421	Gas Line, Long	<u>1</u>	6M713		
6M422	Gas Tank Outlet and Screen		6M714	Control Cable Casing Guid Control Cable Mount	1
3M423	Gas Line, Short	T	6M715	Control Cable Mount Slide	. 1
3M425	Gas Line Swivel	2	6M716	Control Cable Mount Shoc	
3M440	Control Guide Assembly	-	6M717		
6M445	Control Cable Bracket	<u>†</u>	6M718	Shift Control Spring	
6M446	Control Cable Casing	1	6M719	Throttle Control	mahlar I
6M448	Stator Control Cable	1	6MGS720	Steering Handle Sub-Asse	
3M450	Steering Handle Rack and Wir	e	6M721	Throttle Control Pin	
	Assembly	1	6M722	Throttle Control Pin Guide	
6LL452	Synchronous Control Arm Pos		6M723	Throttle Control Pin Bush	ing 2
6LL455	Collar, Syn. Cont. Adj. Link	1	3M724	Upper Control Arm Bushi	ng 1
6LL456	Synchronous Control Adjust-	_	6MGS725	Upper Control Arm	1
	ment Link	1	6M726	Throttle Control Pin Sleev	
3L458	Spacer, Control Shaft	1	6M728	Throttle Control Screw	
6LL460	Synchronous Control Assemble	уТ	3M730	Control Arm Pivot Assemb	
3M470	Fuel Pump Outlet	1	3M731	Lower Control Arm	
3M474	Gas Line Nipple	1	3M732	Upper Control Rod Hinge I	
6LL480	Auxiliary Primer Assembly	1	3LGS734	Washer (Co-Pilot Bracket	
3M481	Auxiliary Gas Line	1		Pivot Tube)	
3M483	Valve, Gas Tank Relief	1	6MGS735	Control Cam	
	Valve, Fuel Pump	1	3M763	Control Arm Pivot Hinge I	?in 1
	Valve, Fuel Outlet		3M850	Gas Tank Fuel Outlet	
3M484	Connector, Fuel Pump Inlet	1	6M862	Engine Cover Catch	
6LL485	Fuel Pump Lock Ring		6M870	Lower Engine Cover Brack	
3M486	Fuel Pump Mounting Plate	1	6M875	Lower Engine Cover	
3M487	Fuel Pump Body	1	3M877	Engine Cover Screen	1
3M488	Fuel Pump Diaphragm	1	3M887	Gas Tank Gasket	
3M491	Fuel Pump Gasket	1	6M889	Gas Tank	1
6LL492	Fuel Pump Spring Guide	1	6M890	Gas Tank Assembly	
6LL493	Fuel Pump Spring		3M891	Gas Tank Handle	1
6M500	Control Pitman Assembly	1	3M893	Washer, Gas Tank Handle	<u>4</u>
6LL501	Magneto	1	3MGS901	"Champion" Gear Shift D	ecal 2
6MGS503	Magneto Clamp Screw	2	6LL909	Choke Decal	
3L505	Flywheel Key	1	2M911	"Champion" Emblem Dec	al 1
6M509	Stator Shaft Arm	1	6MGS912	Stop - Slow Shift Range D	ecal 1
3M511	Stator Plate Control Arm	1	6MGS913	Start - Fast Decal	1
6M511	Stator Plate Indicator		6MGS914	Instruction Decal	1
6M518	Control Shaft Bracket	. 1	6MGS916	Forward - Neutral - Revers	se .
6LL520	Flywheel Assembly	1	AC 55 No. 27	Decal	1
2K551	Starter Plate	1	6M917	"15" Horsepower Decal	1
1J573	Gas Cap Vent Screw	1	6M918	Feather Weight "15" Dec	al 2
1J574	Washer, Gas Cap Vent Screw	1	3M919	Cruising Tank Decal	2
1J579	Gasket, Gas Cap	1	3M933	Steering Handle Spring W	asher 1
1K580	Gas Cap Assembly	1	3M938	Pivot Stop Washer	2
3M605	Ready Pull Handle	1	ЗМ939	Pivot Bolt Key	1
3M606	Handle Cable Lock	1	3M940	Co-Pilot Bolt Assembly	2
3M610	Starter Rope Assembly	1	3LGS941	Anti-cavitation Plate Nut	1
2K611	Starter Spring Anchor Screw	1	3LGS942	Water Pump End Plate	0.270
6M613	Starter Recoil Spring	1	STATE OF THE PROPERTY OF THE PARTY OF T	(Bottom)	1
2L620	Starter Spool Assembly	1	3M943	Washer, Shoulder Bolt	1
6LL622	Starter Ratchet Spring	2	3M945	Washer, Shoulder Bolt Lo	
2K626	Spring Washer	1	3M946	Shoulder Bolt Lock	1
	TOTAL TRANSPORT TOTAL TRANSPORT TO THE PROPERTY OF THE PROPERT		511000000000000000000000000000000000000		

_ Part	No.	Part	Devertation	No.
No. Description	Req'd	No.		Req'd
3M947 Pin, Tilting Bra	cket Cam Stud 1	1J2005	Screw, Gas Tank Handle	4
6M951 Spray Plate	1	3LGS2006	Screw, Lower Shift Rod Lock	1
6M972 Spacer, Top Ma	ain Bearing 1	3M2008	Fuel Pump Screw	4
1J1001 Water Line Gr	ommet 1	3M2102	Shroud Screw, Rear	2
6M1006 Top Main Bear	ing Seal 1	1J2201	Center Main Bearing Screw	2
6M1007 Water Passage	Tube "O" Ring 1	3M2209	Screw, Upper Control Arm	1
3LGS1011 Anti-cavitation	Plate "O" Ring 1	6LL2213	Screw, Stator Shaft Arm Pivot	1
Doolson Arm Ci	ide "O" Ring 1	3M2214	Screw, Control Shaft Arm Pivot	1
OV 111012 Water Line "O"	Ring 1	3M2215	Set Screw, High Speed Adj.	
	Cool 1	OHIZZIO	Knob	1
2LH1015 Propeller Shaft	Seal 1	3L2408	Magneto Mounting Screw	4
2LH1016 Lower Unit Cap	o Seal 1	4K2409	Lower Shroud Screw, Rear	2
	ock Ring Seal 1	2LH2412	Screw, Pivot Base and Drive-	3. 5 .
6M1018 Bearing Adapte	or "O" Ring 1	ZLI12412	shaft Housing	2
3LGS1019 Driveshaft Seal	1	OT TTO 41 4	Shart nousing	ĩ
3L1100 Needle Bearing	, Center Main36	2LH2414	Starter Rope Anchor Screw	2
6M1102 Wrist Pin Beau	ring 4	3M2417	Lower Cavitation Plate Screw.	4
4LS1103 Connecting Roo	l Needle	2J2501	Nut, Control Cable Bracket	1
Bearing	128	1J2502	Flywheel Nut	1
6M1104 Main Bearing	3	6M2505	Nut Retainer, Engine Cover	
2LH1110 Propeller Shaft	Ball Bearing 1		Catch	1
3LGS1111 Lower Unit Hou	using Ball	1J2601	Motor Base Nut	2
	1	1J2602	Crankcase and Cylinder Block	
3M1199 Cotter Pin, Tilti	ing Bracket		Nut	. 1
Shoulder Roll	t1	3LGS2603	Lower Unit and Driveshaft	
Cotton Din Pou	erse Lock Catch	020200	Housing Nut	2
Din Din	1	6M2607	Carburetor Nut	2
TIII	Cotter Pin 1	1J2701	Co-Pilot Tension Adjustment	
1J1200 Propeller Nut	Cotter Fill	102101	Nut	1
1J1203 Synchronous C	ontrol Arm	2K2703	Nut, Co-Pilot Cushion	2
Spring Cotte	r 1	3M2704	Nut, Tilting Bracket Bolt	7
3M1211 Clip, Shroud Sc	rew2	3M2704 3M2705	Lock Nut, Shoulder Bolt	1
2K1212 Starter Spool I	ock Ring 2		Pivot Base Screw Lock Washer	7
3M1223 Clamp, Gas Lir	ne5	1J2900	Cyl. Block and Crankcase Lock	
6M1226 Snap Ring, Thr	ottle Control Pin 1			
	Il Bearing Snap		Washer	. 0
Ring	1		Lock Washer, Pivot Base and	7
2LH1231 Propeller Shaft	Snap Ring 1		Driveshaft Housing Bolt	150
2LH1232 Cotter, Upper C	Control Rod		Lower Unit and Driveshaft	(1992)
Hinge Pin	1	000000000000000000000000000000000000000	Housing Stud Lock Washer	- 1
3M1237 Snap Ring, Sw	rivel Lock Pin 1	1J2906	Lock Washer, Control Guide	. 2
1J1601 Shroud Screw,	Front 1		Lock Washer, Control Shaft	746
1J1602 Stator Plate C	ontrol Screw 2	-1000000000	Bracket	. 3
3M1607 Screw, Co-Pilo	t Fibre 3	1J2907	Lock Washer, Carburetor Nut.	. 2
6MGS1611 Screw, Control	Cable Mount	and the second s	Lock Washer, Tilting Bracket	
	<u> </u>		Cam Stud	_ 1
1J1701 Pivot Base Scr	rew (Rear)1	3M2908	Lock Washer, Upper Control	
1J1702 Pivot Base Scr	ew 2	STATE OF THE PARTY	Arm	. 1
Cylinder Block	and Crankcase	4K2910	Lock Washer, Fuel Pump Screw	v 4
Saraw Saraw	5		Lock Washer, Cont. Cable Brkt	. 1
6LL1705 Screw, Control	Shaft Bracket. 3		Steering Handle Cap Lock	
	ment Link 1		Washer	2
		1K2911	Flywheel Nut Lock Washer	1
		3LGS2912	Lower Unit Body Stud Lock	
Plate	1 0 1	311032312	Washer	1
	1 Guide 2	6MGS2913	Lock Washer, Control Cable	
Screw, Upper C	Control Arm	61VIGS2913	Mount Bracket	048
Bushing		03.50075		-
3M1714 Screw, Control	l Cable Bracket. 1	6M2915	Lock Washer, Shroud Screw,	0
	g Handle Cap 2		Rear	4
	fold Screw 8	1J3000	Starter Spring Dowel Pin	. 1
6M2000 Pivot Base and		i crecionan	Center Main Bearing Dowel	
UNIZOU I IVOL DOSC OILO	Lower Engine	6M3010	Center Main Dearing Dower	· 5
Cover Screw	Lower Engine 2	4LH3118 6M3300	Starter Plate Rivet Spark Plug	3

Part No.	Description	No. Req'd	Part No.	Description	No. Reg'd
3M3401 3M3404 3LGS3501 3LGS3503 3M3507 6M3508	Carburetor Inlet Elbow Connector, Gas Tank Water Pump Rotor Pin Rocker Arm Guide Pin Groove Pin, Control Pivot Can Pin, Steering Handle	_ 1 _ 1 _ 1	6MGS3509 6MGS3510 3LGS3601 3M3700	Pin, Shift Control Stop Pin, Shift Control Lock Crankcase Plug Socket Screw Wrench, High Speed Adjustment Knob	

ASSEMBLIES

Part No.	Description	No. Req'd	Part No.	Description	No.
6MGS720	Steering Handle Sub-Assembl (includes 3M94, 6MGS100, 6M446, 6M448, 6M715, 6M71 6M717, 6M719, 6M721, 6M72	.6, 22.		2LH1016, 2LH1017, 2LJ 3LGS1111, 2LH1230, 2I 3M2417)	LH1231,
C3.5000	6M723 (2), 6M726 (2), 6M72 6M1226, 6MGS1611, 6MGS2813)		3220000	sembly (includes 6M240 6M247 (2), 6M248, 6M2), 250
6M890	Complete Gas Tank Assembly (includes 6M422, 6LL480, 3M481, 3M483, 1K580, 3M88 (2), 6M889, 3M891, 3M892, 3M893 (4), 3M850, 6M914, 3M919 (2), 3M1223, 1J2005			6M1102 (2), 4LS1103 (22 Starter Housing Assembly cludes 3M610, 6M613, 2I 6LL622 (2), 2K626, 2K6 2L635, 6M641, 2K1212 (2LH2414)	(in- L620, 330, (2),
3LGS990-1	(4), 3M3205, 3M3404) Lower Unit Body Sub-Assembly (includes 3LGS1, 2LH18,	7	NAME TO DO STORY OF THE STORY O	3 Gas Tank Handle Assembly (includes 3M483, 3M891, 3M892, 3M3205)	, 1
6MGS990-6	2LH21) Lower Unit Assembly (includes 3LGS990-1, 3LGS2, 2LH5, 3LGS10, 1J14, 3LGS15, 1J16 (2), 2LH16, 2LH17, 3LGS19, 3LGS20, 6MGS25, 3LGS27, 4LGS29, 3LGS32, 3MGS37, 3M40, 3M43, 3LGS112, 3LGS118, 3LGS112, 3LGS118			8 Complete Set of Gaskets (i cludes 3LG15, 1J16 (2), 2LH16, 2LH17, 3MGS89 6M106 (2), 6M108, 6M20 6M223, 6M224, 6M401, 31 1J574, 1J579, 3M887 (2), 3LGS1011 (2), 2LH1015, 2LH1016, 2LH1017, 6M1 3LGS1019)	n-),)6, M491, , ,018,
	3LGS119, 3LGS123, 6MGS123 3LGS127, 3LGS1011, 2LH10), l5,	3MGS990-32	Ready Pull Handle Assemble (includes 3M605, 3M606	lv

* NOTE: The model and serial number of your motor must be furnished when ordering parts.

Keep in mind that your Champion 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.

WARRANTY ADJUSTMENT AGREEMENT

Champion Motors are warranted to be free from defects in material and workmanship under normal use and service for a period of 90 days from the date of purchase. Our obligation under this warranty is limited to replacement only by an authorized Champion Dealer or Service Station any part or parts of said product that in our judgment show evidence of such defect, provided that said product shall have been registered by returning the Guarantee Registration card within the period specified from date of purchase and provided further that said product shall be returned to the authorized Champion Dealer or Service Station by the purchaser.

The warranty does not imply or carry with it the obligation of the Company to pay any labor or transportation charges.

The warranty is expressly in lieu of all other warranties and of all other obligations on our part, and no representative or other person is authorized or permitted to make any warranty or to assume for this Corporation any liability not strictly in accordance with the foregoing.

The warranty shall not apply to any product which has been tampered with or altered in any way or which has been subject to misuse, negligence, accident, or which has the serial number altered, effaced, or removed.

CHAMPION MOTORS CO.

Golden Rules of Outboarding

- 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.
- 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.
- 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.

- 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.
- 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.
- The fire hazard is very remote, however it is wise to practice precaution at all times where there is gasoline.

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

CHAMPION MOTORS CO.

Post Office Box 875

Minneapolis, Minnesota