SPECIFICATIONS

Model Numbers	125ESL72 (20" transom)
*Horsepower (B.I.A.-certified)	125 hp at 5000 rpm
Full throttle operating range	4500 to 5500 rpm
Tank test with test wheel part number 384933	4800 rpm
Engine type	90° V-type, 4 cylinder, 2 cycle
Bore and stroke	3-1/2" bore x 2-19/32" stroke
Piston displacement	99.6 cubic inches
Piston ring sets (2 per set) standard	Part Number 384539
.020" oversize	Part Number 384982
.030" oversize	Part Number 384980
Diameter of ring	3.500 in. (standard)
Width of ring	Upper .0895 - .0900 in. Lower .0615 - .0625 in.
Piston ring lbs. compression recommended when compressed	Upper 2.500 min. lbs. Lower 3.300 - 4.900 lbs.
Piston less rings	
Standard	Part Number 384516
.020" oversize	Part Number 384981
.030" oversize	Part Number 384979
Crankshaft size	
Top journal	1.4980 - 1.4975
Center journals	1.3752 - 1.3748
Bottom journal	1.1815 - 1.1810
Connecting rod crank pin	1.1828 - 1.1823
Carburetion	2 carburetors-Float feed with fixed high and low-speed jets, automatic, Manual lever and remote control choke
Float level setting	Remove float bowl, turn carburetor upside down so weight of float closes needle; float should now be parallel to gasket surface.
Carburetor high speed orifice plug	Part Number 317488 Hole size .072
Carburetor low speed orifice plug	Part Number 317473 Hole size .030
Inlet needle seat	.065 - .062 Use a #52 drill as gage
Cooling system	Thermostatically controlled recirculating system
Propeller gear ratio	13:26
Propeller supplied with motor	Aluminum 3 blade, 12-3/4" dia. x 21" pitch
Alternate propellers	Aluminum 3 blade, 13-1/4" dia. x 17" pitch Aluminum 3 blade, 14" dia. x 11" pitch Aluminum 3 blade, 14" dia. x 13" pitch Aluminum 3 blade, 13-3/4" dia. x 15" pitch Aluminum 3 blade, 13" dia. x 19" pitch Aluminum 3 blade, 12-3/4" dia. x 23" pitch Bronze 2 blade, 13-3/4" dia. x 21" pitch Bronze 2 blade cupped, 13-3/4" dia. x 21" pitch Bronze 2 blade cupped, 13-3/4" dia. x 23" pitch Stainless steel 3 blade, 13" dia. x 19" pitch Stainless steel 3 blade, 12-3/4" dia. x 21" pitch Stainless steel 3 blade, 12-3/4" dia. x 23" pitch Stainless steel 3 blade, 13-3/8" dia. x 17" pitch
Speed control	Remote control - synchronized throttle and spark
Gear shift control	Hydro-Electric - forward, neutral, reverse - remote control
Shift solenoids	5-6 ohms (lo ohms scale)
Weight (without fuel tank)	252 lbs. (Fuel tank weight 11 lbs. net)
Fuel capacity	6 gallons
Starter	Electric and emergency rope
Electrical system	9 amp flywheel alternator
Starter amp draw when cranking	185 amperes maximum
Ignition (CD breakerless)	Battery - Power Pulse
Spark plug	AC V40FFM or Champion L-77V
Spark plug torque	17-1/2 - 20-1/2 foot-pounds
Sensor air gap	.028 in.

Part No. 58070 Coil Test Specifications - New Stevens Tester Model No. M.A. - 75
**Use Model CD-1 Adapter

Switch	Coil	Index Adjustment
**A	580740	-20

*Horsepower established at sea level. Allow 2% reduction per 1000' above sea level.

Merc-O-Tronic with Capacitor Discharge Adapter Model 55-980		
Operating Amperage	Primary Resistance	Secondary Continuity
Min. - Max.	Min. - Max.	Min. - Max.
1.4		22 - 26

Graham Tester Model 51	
Secondary Continuity	3000 ohms maximum
Primary Continuity	1.2 ohms maximum
Coil Index	60
Coil Test (Normal)	9 minimum
Coil Test (Amplified)	80 minimum
Gap Index	50 maximum

CLEARANCE CHART

Power head	
Piston and wrist pin - loose end	.0006 max. - .0001 min.
Piston ring gap	.017 max. - .007 min.
Lower piston ring groove clearance	.004 max. - .002 min.
Cylinder and piston skirt	.0045 max. - .0025 min.
Crankshaft bearings	
Upper	Roller type
Center	Roller type
Lower	Ball type
Crankshaft end play	.0335 max. - .0006 min.
Connecting rod bearings	
Piston end	Roller type
Crankshaft end	Roller type
Lower unit	
Gearcase head and propeller shaft	Roller type
Driveshaft to gearcase - upper	Roller type
Pinion to gearcase	Roller type
Propeller shaft to oil pump	Roller type
Front gear bushing to propeller shaft	.002 max. - .001 min.
Propeller on shaft	spline

TORQUE CHART

Power head	
Flywheel nut	100-105 ft.-lbs.
Connecting rod screws	348-372 in.-lbs. (29-31 ft.-lbs.)
Cylinder head screws	216-240 in.-lbs. (18-20 ft.-lbs.)
Crankcase to cylinder screws and nuts	
Upper	144-168 in.-lbs.
Center	162-168 in.-lbs.
Lower	144-168 in.-lbs.
Spark plugs	17-1/2-20-1/2 ft.-lbs.
Lower journal bearing retainer plate screws	96-120 in.-lbs.
Distributor cap and stator screws	48-60 in.-lbs.
Crankcase head screws	
Upper	120-144 in.-lbs. (10-12 ft.-lbs.)
Lower	96-120 in.-lbs. (8-10 ft.-lbs.)
Starter thru-bolts	110-122 in.-lbs.
Starter drive assembly locknut	25-30 ft.-lbs.
Driveshaft pinion nut	60-65 ft.-lbs.

NOTE

When tightening two or more screws on the same part, DO NOT tighten screws completely, one at a time. To avoid distortion of the part, first tighten all screws together to one-third of specified torque, then to two-thirds of specified torque, then torque down completely.