

**NOTE**

The recommended full power operating range for your outboard motor is from 4500 - 5500 R.P.M. In order to get the best performance from your outboard the upper end of this range, from 5000 - 5500 R.P.M., is the engine speed to use in selecting the proper propeller. The R.P.M. should be measured with your expected average load in the boat.

## SPECIFICATIONS

Model Numbers . . . . .	135ESL74 (20" transom) 135ETL74 (20" transom)
*Horsepower (B.I.A.-certified) . . . . .	135 hp at 5000 rpm
Full throttle operating range . . . . .	4500 to 5500 rpm
Tank test with test wheel part number 386246 . . . . .	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 385661
.020" oversize . . . . .	Part Number 385662
.030" oversize . . . . .	Part Number 385663
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) . . . . .	1.0 - 3.0 lbs.
(lower) . . . . .	3.3 - 4.9 lbs.
Piston less rings	
Standard . . . . .	Part Number 385477
.020" oversize . . . . .	Part Number 385569
.030" oversize . . . . .	Part Number 385570
Crankshaft size	
Top journal . . . . .	1.6204 - 1.6199
Center journals . . . . .	1.3752 - 1.3748
Bottom journal . . . . .	1.3784 - 1.3779
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 319776 Hole size .069
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 . . . . .	13:25
Propeller supplied with motor . . . . .	Aluminum 3 blade, 13" dia. x 19" 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, 12-3/4" dia. x 21" 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, 13-3/4" dia. x 15" pitch Stainless steel 3 blade, 13-1/4" dia. x 17" 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
Speed control . . . . .	Remote control - Synchronized throttle and spark
Gear shift control, POWERSHIFT II - forward, neutral, reverse - remote control	
Weight (without fuel tank) Model ESL74 . . . . .	271 lbs.
Model ETL74 . . . . .	298 lbs.
	(Fuel tank weight 11 lbs. net)
Fuel capacity . . . . .	.6 gallons
Starter . . . . .	Electric and emergency rope
Starter amp draw when cranking (Prestolite) . . . . .	180 amps maximum
(Bosch) . . . . .	160 amps maximum
Starter RPM. . . . .	250 RPM for ignition
Generator system . . . . .	6 ampere flywheel alternator
Ignition (Magneto breakerless C.D.) . . . . .	Power Pack
Spark plug . . . . .	Champion UL-77V
Spark plug torque . . . . .	17-1/2" - 20-1/2" foot-pounds
Sensor air gap . . . . .	.Fixed
Coil . . . . .	Part Number 581032
*Horsepower established at sea level. Allow 2% reduction per 1000' above sea level.	