

SPECIFICATIONS

Model Numbers	70ES74 (standard length) 70ESL74 - 70ESLR74 (5" longer)
*Horsepower (B.I.A.-certified)	70 hp at 5000 rpm
Full throttle operating range	4500 to 5500 rpm
Tank test with test wheel Part Number 386665	5000 rpm
Engine type	2 cycle, 3 cylinders in line
Bore and stroke	3" bore x 2-11/32" stroke
Piston displacement	49.7 cubic inches
Piston ring sets (2 per set) standard	Part Number 385807
.020" oversize	Part Number 385808
.030" oversize	Part Number 385809
Diameter of ring	3.000 in. (standard)
Width of ring	Upper, .0900 - .0895 in. Lower, .0625 - .0615 in.
Piston ring lbs. compression recommended when compressed	Upper, 1.0 to 3.0 lbs. Lower, 4 to 8 lbs.
Piston with rings	
Standard	Part Number 385877
.020" oversize	Part Number 385878
.030" oversize, without rings	Part Number 385873
Crankshaft size	
Top journal	1.4979 - 1.4974 in.
Center journals	1.3752 - 1.3748 in.
Bottom journal	1.1815 - 1.1810 in.
Connecting rod crank pin	1.1828 - 1.1823 in.
Carburetion 3 carburetors - Float feed. Automatic, thermo electric manual lever and remote control choke	
Float level setting	Remove float bowl, turn it upside down so weight of float closes needle; float should now be parallel to and 1/16" above surface of gasket
Carburetor orifice plug (high speed)	Part Number 319907 - Hole size .061"
Carburetor orifice plug (low speed)	Part Number 317473 - Hole size .030"
Carburetor idle restriction plug	Part Number 320015 - Hole size .033"
Inlet needle seat065 - .062 Use a #52 drill as gage.
Cooling system Pressure and Thermostatically controlled system	
Propeller gear ratio	12:29
Propeller supplied with motor	(Aluminum) 3 blade, 13" dia. x 19" pitch
Alternate propellers	(Aluminum) 3 blade, 14" dia. x 9" 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, 13-1/4" dia. x 17" 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)	Standard length - 201 lbs. 5" longer - 219 lbs. (Fuel tank weight 11 lbs. net)
Fuel capacity	6 gallons
Starter	Electric and emergency rope
Electrical system	6 amp alternating current generator
Starter amp draw when cranking	American Bosch 120 amperes or Prestolite, 135 amperes
Ignition Magneto Breakerless CD	Power Pack
Spark plug	Champion UL77V
Spark plug torque	17-1/2 - 20-1/2 foot-pounds
Sensor Air Gap	Fixed
Coil	Part No. 580821

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.

WATERCRAFTMAN

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