

## SPECIFICATIONS

Model Numbers . . . . .	50ES75 (standard length) 50ESL75 (5" longer) 50542 (standard length) 50443 (5" longer)
*Horsepower (B.I.A.-certified) . . . . .	50 hp at 5500 rpm
Full throttle operating range . . . . .	5000 to 6000 rpm
Tank test with test wheel Part No. 386950 . . . . .	5300 rpm
Engine type . . . . .	2 cycle, 2 cylinders in line
Bore and stroke . . . . .	3.060 (3-1/16) bore x 2.820 (2-13/16) stroke
Piston displacement . . . . .	41.5 cubic inches
Piston ring sets (2 per set) standard . . . . .	Part Number 385798
.030" oversize . . . . .	Part Number 385799
Diameter of ring . . . . .	3.060 in. (standard)
Width of ring	
Upper, Part Number 318411 . . . . .	.0900 - .0895 in.
Lower, Part Number 318412 . . . . .	.0625 - .0615 in.
Piston ring lbs. compression recommended when compressed	
Upper . . . . .	1.0 to 3.0 lbs.
Lower . . . . .	4.0 to 8.0 lbs.
Piston without rings	
Standard . . . . .	Part Number 386094
.030" oversize . . . . .	Part Number 386097
Crankshaft size	
Top journal . . . . .	1.4979 - 1.4974 in.
Center journal . . . . .	1.3752 - 1.3748 in.
Bottom journal . . . . .	1.1815 - 1.1810 in.
Connecting rod crank pin . . . . .	1.1828 - 1.1823 in.
Carburetion . . . . .	2 carburetors - Float feed with low-speed adjustment. 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 . . . . .	Part Number 308977 - Hole size .058"
Inlet needle seat . . . . .	.065 - .062 Use a #52 drill as gage.
Cooling system . . . . .	Temperature and pressure controlled system
Propeller gear ratio . . . . .	12:29
Propeller supplied with motor . . . . .	(Aluminum) 3 blade, 12-1/4" dia. x 15" pitch
Alternate propellers . . . . .	(Aluminum) 3 blade, 13" dia. x 11" pitch (Aluminum) 3 blade, 12-1/2" dia. x 13" pitch (Aluminum) 3 blade, 11-3/4" dia. x 17" pitch (Aluminum) 3 blade, 11-1/2" dia. x 19" pitch
Speed control . . . . .	Remote control-synchronized throttle and spark
Gear shift control . . . . .	Command Center - forward neutral, reverse - remote control
Weight (without fuel tank) . . . . .	Standard - 180 lbs., Long - 187 lbs. (Fuel tank weight 11 lbs. net)
Fuel capacity . . . . .	6 gallons
Starter . . . . .	Electric with emergency rope
Electrical system . . . . .	6 amp alternating current generator
Starter amp draw when cranking	
(Prestolite) . . . . .	135 amperes maximum
(Bosch) . . . . .	110 amperes maximum
Ignition (Magneto breakerless C.D.) . . . . .	Power Pack
Timing . . . . .	19° @ 3500 minimum rpm in gear
Spark plug . . . . .	Champion L77J4 or AC M40FFX
Spark plug torque . . . . .	17-1/2 - 20-1/2 foot-pounds
Spark plug gap . . . . .	.040"
Sensor air gap . . . . .	Fixed
Coil . . . . .	Part No. 580821

### NOTE

The recommended full power operating range for your outboard motor is from 5000 - 6000 R.P.M. In order to get the best performance from your outboard the upper end of this range, from 5500 - 6000 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