

## SPECIFICATIONS

## 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.

Model Numbers . . . . .	85693 (20" transom)
*Horsepower (B.I.A.-certified) . . . . .	85 hp at 5000 rpm
Full throttle operating range . . . . .	4500 to 5500 rpm
Tank test with test wheel Part Number 382861 . . . . .	4800 rpm
Engine type . . . . .	90° V-type, 4 cylinder, 2 cycle
Bore and stroke . . . . .	3-3/8" bore x 2-19/32" stroke
Piston displacement . . . . .	92.6 cubic inches
Piston ring sets (3 per set) standard . . . . .	Part Number 385666
.030" oversize . . . . .	Part Number 386331
Diameter of ring . . . . .	3.375 in. (standard)
Width of ring (upper) . . . . .	.0900 - .0895 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 386301
.030" oversize . . . . .	Part Number 386331
Crankshaft size Top journal . . . . .	1.6204 - 1.6199
Center journals . . . . .	1.3752 - 1.3748
Bottom journal . . . . .	1.3784 - 1.3779
Connecting rod crank pin . . . . .	1.3762 - 1.3757
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 317646 Hole size .054 in.
Carburetor low speed orifice plug . . . . .	Part Number 317474 Hole size .027 in.
Inlet needle seat . . . . .	.065 - .062 Use a #52 drill as gage
Cooling system . . . . .	Thermostatically controlled re-circulating system
Propeller gear ratio . . . . .	13:26
Propeller supplied with motor . . . . .	Aluminum 3 blade, 13-1/4" dia. x 17" pitch
Alternate propellers . . . . .	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 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 . . . . .	POWER PILOT - forward, neutral, reverse - remote control
Weight (without fuel tank) . . . . .	269 lbs. (Fuel tank weight 11 lbs. net)
Fuel capacity . . . . .	6 gallons
Starter . . . . .	Electric and emergency rope
Generator system . . . . .	6 amp flywheel alternator
Starter amp draw when cranking (Prestolite) . . . . .	180 amperes maximum
(Bosch) . . . . .	160 amperes maximum
Starter RPM . . . . .	250 RPM for ignition
Ignition (magneto breakerless C.D.) . . . . .	Power Pack
Timing . . . . .	26° 4300-4600 RPM in gear
Spark plug . . . . .	Champion L77J4 or AC-M40 FFX
Spark plug gap . . . . .	.040"
Spark plug torque . . . . .	17-1/2" - 20-1/2" foot-pounds
Sensor air gap . . . . .	Fixed
Ignition Coil . . . . .	Part Number 581610

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