

## 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.

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| Model Numbers . . . . .                               | 85493 (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 385664   |
| .020" oversize . . . . .                              | Part Number 385665   |
| .030" oversize . . . . .                              | Part Number 385666   |
| 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 385478   |
| .020" oversize . . . . .                              | Part Number 385571   |
| .030" oversize . . . . .                              | Part Number 385572   |
| Crankshaft size                                       |  |
| Top journal . . . . .                                 | 1.6204 - 1.6199  |
| Center journals . . . . .                             | 1.3752 - 1.3748  |
| Bottom journal . . . . .                              | 1.3784 - 1.3779  |
| Connecting rod crank pin . . . . .                    | 1.3752 - 1.3747  |
| Carburetion . . . . .                                 | 2 carburetors - Float feed with fixed high and low-speed 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 .067 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 recirculating 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) . . . . .                  | 267 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   |
| 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.