1979 **EVINRUDE SERVICE MANUAL**



SPECIAL SERVICE TOOLS

OMC has specially-designed tools to simplify some of the disassembly and reassembly operations. These tools are illustrated in this Service Manual, in many cases in actual use. Refer to the Special Service Tool Catalog for a description and ordering instructions for these tools. Individual purchasers of Service Manuals must order Special Tools from an authorized dealer.

OUTBOARD MOTOR NOMENCLATURE

Sometimes the words "right" and "left" are very confusing when referring to the sides of an outboard motor. Therefore, the sides are referred to as STARBOARD or PORT sides. STARBOARD means on the right hand while facing the bow (FRONT) of the boat; PORT means left hand. See Figures 1-1 and 1-2.

Service required for the motor is generally one of three kinds . . .

- NORMAL CARE AND MAINTENANCE, which includes putting a new motor into operation, storing motors, lubrication, and care under special operating conditions such as salt water and cold weather.
- OPERATING MALFUNCTIONS due to improper motor mounting, propeller condition or size, boat condition, or the malfunction of some part of the motor. This includes motor tune-up procedures to keep the motor in prime operating condition.
- COMPLETE DISASSEMBLY and overhaul, such as inspecting a motor that has been submerged, or rebuilding trade-in units.

It is important to you as the service man to determine before disassembly just what the trouble is, and how to correct it quickly and with minimum expense to the owner. Refer to the Trouble Check chart in Section 2 to help you diagnose motor malfunctions.

- 1. Flywheel
- 2. Speed control
- 3. Choke
- 4. High speed knob
- Reverse lock
- 6. Steering friction screw
- 7. Exhaust housing
- 8. Water pump
- 9. Oil drain and fill plug
- 10. Exhaust relief and water outlet
- 11. Pivot brg. retainers
- 12. Fuel valve
- 13. Filler cap and air vent screw
- 14. Rewind Starter
- 15. Motor rest
- 16. Model and serial number plug
- 17. Swivel bracket
- 18. Exhaust outlet
- 19. Propeller
- 20. Skeg
- 21. Water intake port and starboard
- 22. Tilt rod
- 23. Clamp screw
- 24. Model and serial number plate
- 25. Steering handle
- 26. Low speed needle

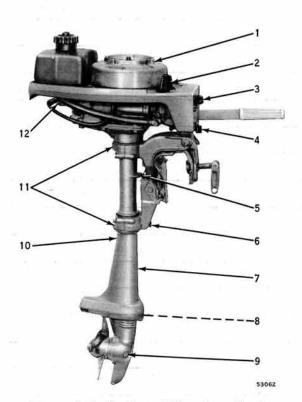


Figure 1-1. Starboard View Less Starter

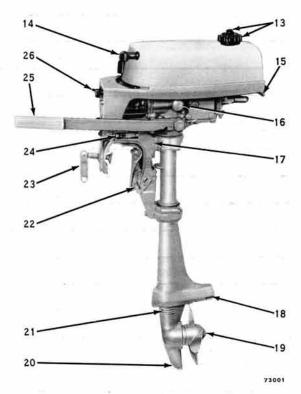


Figure 1-2. Port Side View with Starter

SPECIFICATIONS

Model Number
*Horsepower (B.I.Acertified) 2 HP (1.4 kW) at 4500 rpm
Full throttle operating range
Test tank with test wheel
Test wheel
Idle rpm 650 rpm
Engine type Single cylinder, 2 stroke cycle
Bore and stroke 1-9/16" bore x 1-3/8" stroke (39.69 x 34.93 mm)
Piston displacement
Piston ring sets (2 per set)
Standard
0.030" (0.76 mm) oversize
Width of ring
Piston assembly - standard
0.030" (0.76 mm) oversize piston less rings Part Number 384666
Crankshaft size
Top journal 0.7502 - 0.7497 in. (19.055 - 19.042 mm)
Bottom journal 0.7502 - 0.7497 in. (19.055 - 19.042 mm)
Connecting rod crank pin 0.6700 - 0.6695 in. (17.018 - 17.005 mm)
Carburetion Single barrel float feed, with high and
low speed adjustments Float level setting Flush with casting @ 0.620" (15.7 mm)
rioat level setting Flush with casting @ 0.020 (15.7 mm)
Inlet needle seat . 0.050-0.053 (1.27 - 1.35 mm) Use a #55 drill as gage
Cooling system Centrifugal pump
Propeller gear ratio
Propeller drive pin
Propeller 7-1/4 x 4-1/2
Speed control Single lever, synchronized throttle and spark
Weight 24 lbs. (10.9 kg)
Fuel capacity Gravity feed integral tank 1 qt. (0.95 litre)
Starter Manual self rewinding
Ignition Flywheel magneto
Spark plug AC-M44C, Champion J6J - 14 mm
Spark plug gap 0.030 inch (0.8 mm) Spark plug torque 17-1/2 - 20-1/2 foot-pounds (24-27 N·m)
Spark plug torque
Breaker point gap 0.020 inch (0.5 mm)
Condenser Part Number 580321
Capacity 0.18 to 0.22 Mfd.
Coil

COIL TEST SPECIFICATIONS

Stevens Tester Model ST-75

DECYCHO I COLCI MOUCI	52 .0
Normal Polarity	
(Switch Setting Standard)	2.2

Stevens Tester Model No. M.A. -75 or 80

Switch	Index Adjustment
В	22

Merc-O-Tronic

Operating	Primary Resistance		Secondary Continuity	
Amperage	Min.	Max.	Min.	Max
1.6	0.5	0.7	35	45

Graham Tester Model 51

Maximum Secondary	Maximum Primary		Minimum Coil Test	Max. Gap Index
5500	1.2	75	33	75

^{*} Horsepower established at sea level. Allow 2% reduction per 1000' (300 m) above sea level.