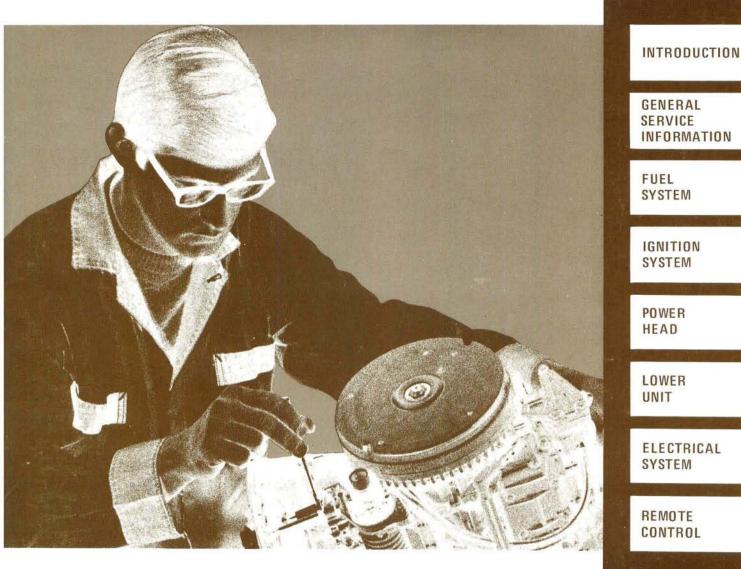
1972 EVINRUDE SERVICE MANUAL



6

STARFLITE 125 HP

MODEL 125283

Service Manual, in many cases in actual use. Refer to the Special Service Tool Catalog for a description and ordering instructions for these tools.

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. This section of the manual is designed to help you diagnose motor malfunctions and correct them.

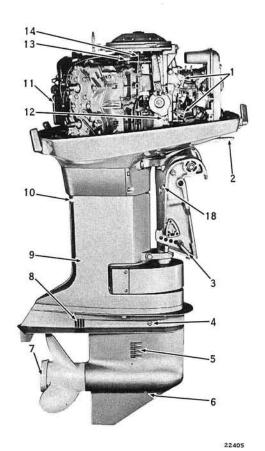


Figure 1-1. Starboard View Less M/C

- 1. Carburetors
- 2. Steering bracket
- 3. Tilt adjustment rod
- 4. Oil level plug
- 5. Water intake
- 6. Oil drain and fill plug
- 7. Exhaust outlet
- 8. Water outlet
- 9. Exhaust housing
- 10. Exhaust relief
- 11. Pulse pack
- 12. Throttle lever
- 13. Distributor
- 14. Alternator
- 15. Lift bracket
- 16. Fuel pump and filter
- 17. Exhaust covers
- 18. Tilt lock lever
- 19. Water outlet
- 20. Trim tab
- 21. Propeller
- 22. Skeg
- 23. Gearcase
- 24. Water intake
- 25. Stern bracket
- 26. Air silencer
- 27. Electric starter
- 28. 20 amp fuse

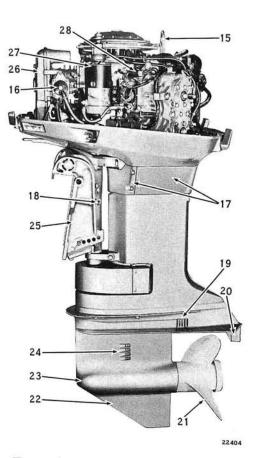


Figure 1-2. Port Side View Less M/C

SPECIFICATIONS

Model Numbers
*Horsepower (B.I.Acertified)
Full throttle operating range
Tank test with test wheel part number 384933
Engine type
Bore and stroke
Piston displacement
Piston ring sets (2 per set) standard Part Number 384539
.020" oversize Part Number 384982
.030" Oversize Part Number 384980
Diameter of ring
Width of ring
Lower .06150625 in
Piston ring lbs. compression
recommended when compressed Upper 2.500 min. lbs.
Lower $3.300 - 4.900$ lbs.
Piston less rings
Standard Part Number 384516
.020" oversize Part Number 384981
.030" oversize Part Number 384979
Crankshaft size
Top journal
Center journals
Bottom journal
Connecting rod crank pin
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 317488 Hole size .072
Carburetor low speed orifice plug Part Number 317473 Hole size .030
Inlet needle seat
Cooling system Thermostatically controlled recirculating system
Propeller gear ratio
Propeller supplied with motor Aluminum 3 blade, 12-3/4" dia. x 21" pitch
Alternate propellers Aluminum 3 blade, 13-1/4" dia. x 17" 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" dia. x 19" 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" 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
Stainless steel 3 blade, 13-3/8" dia. x 17" pitch
Speed control Remote control - synchronized throttle and spark
Gear shift control Electric - forward, neutral,
Shift solenoids
Misiaki (mithout first trul)
Weight (without fuel tank)
(Fuel tank weight 11 bls. net)
Fuel capacity 6 gallons Starter
Starter
Electrical system
Imition (CD breakerless)
Ignition (CD breakerless)
Spark plug
Sensor air gap
Part No. 58070 Coil Test Specifications - New Stevens Tester Model No. M.A 75
**Use Model CD-1 Adapter
Switch Coil Index Adjustment
**A 580740 20
*Horsepower established at sea level. Allow 2% reduction per 1000' above sea

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