

Yamaha Marine 4-Stroke Outboards Quick Workshop Specs

Models: F70, F115, F150, F200, F250, F300 - Curated by Marine Propulsion Dept.

Official Engineering Document - SailingManuals Maritime Technical Archive

TECHNICAL SPECIFICATIONS & VERIFIED BENCH TOLERANCES:

1. Engine Oil Specification: Yamalube 4M FC-W SAE 10W-30 or SAE 20W-40 Synthetic
2. Oil Sump Capacity: F150: 4.5L (4.76 qt) | F200/F250: 6.3L (6.66 qt) w/ filter
3. Spark Plug Type & Gap: NGK LFR6A-11 / LKR6E (Gap: 1.0 - 1.1 mm / 0.039 - 0.043 in)
4. Valve Clearance (Cold): Intake: 0.17 - 0.24 mm | Exhaust: 0.31 - 0.38 mm
5. Fuel Pressure Specification: High Pressure VST Rail: 43.5 - 49.3 PSI at Idle
6. Lower Unit Gearcase Lube: Yamaha Marine Hypoid Gear Oil SAE 90 (Cap: 980 mL)
7. Propeller Nut Torque: 54.0 Nm (5.5 m-kG, 39.8 ft-lb) - Always use fresh cotter pin
8. Thermostat Opening Temp: 60 deg C (140 deg F) | Full Open: 70 deg C (158 deg F)
9. Sacrificial Anodes: Inspect monthly; replace when sacrificial mass loss reaches 50%

Verified in Compliance with ABYC Standards - ISO 9001 Review Protocol - SM-PDF-2026