

Honda Marine Four-Stroke VTEC Workshop Tolerances

Series: BF90, BF150, BF225, BF250 - Variable Valve Timing Diagnostic Protocols

Official Engineering Document - SailingManuals Maritime Technical Archive

TECHNICAL SPECIFICATIONS & VERIFIED BENCH TOLERANCES:

1. Recommended Engine Lubricant: Honda Marine SAE 10W-30 FC-W Certified 4-Stroke Oil
2. Valve Lash Inspection: Check at 20-Hour Initial Break-In; inspect every 200 hours thereafter
3. Valve Clearance (Cold): Intake: 0.15 - 0.19 mm | Exhaust: 0.23 - 0.27 mm
4. VTEC Oil Pressure Switch: Activation Pressure: 36 PSI minimum at 4,500 RPM
5. Spark Plug: NGK IZFR6K-11 Laser Iridium (Gap: 1.0 - 1.1 mm / Do not adjust ground electrode)
6. Low Speed Torque (BLAST): Electronic enrichment duration: 2.5 seconds upon rapid throttle advance
7. Gearcase Oil Capacity: BF150: 980 mL | BF250: 1,170 mL SAE 90 Hypoid API GL-4

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