

**SERVICE SPECIFICATIONS AND SPECIAL TOOLS**  
**TECHNICAL DATA**

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	HP	115	150, 175, 200	
<b>ENGINE</b>	Full Throttle Operating Range	5500–6000 RPM	4850–5850 RPM	
	Power	<b>115 HP:</b> (85.8 kw) @ 5750 RPM	<b>150 HP:</b> (111.9 kw) @ 5350 RPM <b>175 HP:</b> (130.5 kw) @ 5350 RPM <b>200 HP:</b> (149.1 kw) @ 5350 RPM	
	Idle RPM in Gear	550 ± 50	500 ± 50	
	Test Propeller	<b>V4 20 in. (L) Models:</b> P/N 386246 or P/N 433068 <b>V4 25 in. (X) and V6 Standard Rotation Models:</b> P/N 387388 <b>V6 Counter Rotation Models:</b> P/N 398673		
	Weight (may vary depending on model)	<b>20 in. (L) Models:</b> 375 lbs. (170 kg) <b>25 in. (X) Models:</b> 390 lbs. (177 kg)	<b>20 in. (L) Models:</b> 418 lbs. (190 kg) <b>25 in. (X) Models:</b> 433 lbs. (196 kg)	
	Lubrication	<i>Evinrude/Johnson XD50 Oil or Evinrude/Johnson XD100 Oil</i> Refer to <b>Oil Requirements</b> on p. 66		
	Engine Type	60° V 4-Cylinder Loop-Charged	60° V 6-Cylinder Loop-Charged	
	Displacement	105.4 cu. in. (1727 cm <sup>3</sup> )	158.2 cu. in. (2592 cm <sup>3</sup> )	
	Bore	3.601 in (91.47 mm)		
	Stroke	2.588 in. (65.74 mm)		
	Standard Bore	3.6005 to 3.6015 in. (91.45 to 91.48 mm) To bore oversize, add piston oversize dimension to standard bore		
	Top Crankshaft Journal	2.1870 to 2.1875 in. (55.55 to 55.56 mm)		
	Center Crankshaft Journals	2.1870 to 2.1875 in. (55.55 to 55.56 mm)		
	Bottom Crankshaft Journal	1.5747 to 1.5752 in. (40.0 to 40.01 mm)		
	Rod Crankpin	1.3757 to 1.3762 in. (34.94 to 34.96 mm)		
	Piston Ring End Gap, Both	0.011 to 0.023 in. (0.28 to 0.58 mm)		
<b>FUEL</b>	Fuel/Oil Ratio	<i>EMM</i> Controlled		
	Starting Enrichment	<i>EMM</i> Controlled		
	Preferred Fuel	Regular unleaded gasoline		
	Acceptable Fuel	See <b>Fuel Requirements</b> on p. 65 for additional information.		
	Minimum (High) Fuel Pressure @ IDLE RPM – 500 ± 50	22 to 28 psi (152 to 193 kPa)		
	Minimum Fuel Lift Pump Pressure @ IDLE RPM – 500 ± 50	3 to 4 psi (21 to 28 kPa)		
	Maximum Fuel Inlet Vacuum	4 in. Hg. (13.5 kPa)		
	Minimum Octane	87 AKI (R+M)/2 or 90 RON		
Additives	2+4 <sup>®</sup> Fuel Conditioner, Fuel System Cleaner Use of other additives may result in engine damage. See <b>Fuel Requirements</b> on p. 65 for additional information.			

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	HP	115	150, 175, 200
<b>ELECTRICAL</b>	Minimum Battery Requirements	675 CCA (845 MCA); or 750 CCA (940 MCA) below 32°F (0°C) (Use a 107 amp-hr battery for extreme applications.)	
	Alternator	Dual Voltage 50 Amp with Voltage Regulator and Battery Isolation	
	Tachometer Setting	6 pulse (12 pole)	
	Charging Isolator	Integral, Terminal on Engine Harness	
	Engine Fuses	P/N 967545 – 10 A	
<b>COOLING</b>	Thermostat	143°F (62°C)	
	Maximum Temperature	230°F (110°C) Below 3000 RPM and 194°F (90°C) Above 3000 RPM	
	Water pressure	21 psi minimum @ 3000 RPM	
<b>IGNITION</b>	Type	Capacitor Discharge	
	Firing Order	1-2-3-4	1-2-3-4-5-6
	Ignition Features	EMM Controlled	
	RPM Limit	6250	
	Crankshaft Position Sensor Air Gap	Fixed	
	Spark Plug	Refer to Emission Control Information Label Champion† QC10PEPB @ 0.028 ± .003 in. (0.76 mm) Refer to Emission Control Information Label	
<b>GEARCASE</b>	Gear Ratio	<b>V4 “S” Type Gearcase:</b> 13:26 (.500) (2:1) <b>V4 “O” Type Gearcase:</b> 12:27 (.444) (2.25:1) <b>V6 “M” Type Gearcase:</b> 13:24 (.542) (1.85:1) <b>V6 “O” Type Gearcase:</b> 14:26 (.538) (1.86:1) <b>V6 “L” Type Gearcase:</b> 14:26 (.538) (1.86:1) Refer to <b>GEARCASE TYPES</b> on p. 305	
	Lubricant	HPF XR Gearcase Lubricant	
	Capacity	<b>“S” Type Gearcase:</b> 31.6 fl. oz. (935 ml) <b>V4 “M” Type Gearcase:</b> 43.0 fl. oz. (1270 ml) <b>V6 “M” Type Gearcase:</b> 44.0 fl. oz. (1300 ml) <b>“M” Type – Counter Rotation:</b> 41 fl. oz. (1220 ml) <b>“O” Type Gearcase:</b> 33.1 fl. oz. (980 ml) <b>“L” Type Gearcase:</b> 33.1 fl. oz. (980 ml) Refer to <b>GEARCASE TYPES</b> on p. 305	
	Shift Rod Height	<b>20 in. (L) Models:</b> 20.945 (532 mm) ± one-half turn <b>25 in. (X) Models:</b> 25.945 (659 mm) ± one-half turn	
	Shift Cable Stroke	1.125 to 1.330 in. (28.6 to 33.8 mm) measured between NEUTRAL and FORWARD	
<b>POWER TRIM/TILT</b>	Lubrication	<b>115 (Single Piston style):</b> Evinrude/Johnson Biodegradable TNT Fluid <b>115-200 (Three Piston style):</b> Evinrude/Johnson Power Trim/Tilt & Power Steering Fluid or GM Dextron† II Automatic Transmission Fluid	
	Fluid Capacity	21 fl. oz. (622ml)	
	Trim Range	0° to 21°	
	Tilt Range	22° to 75°	

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