

SPECIAL TOOLS AND SERVICE SPECIFICATIONS
TECHNICAL DATA

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75, 90 Models		
ENGINE	Full Throttle Operating Range RPM	4500 to 5500 RPM
	Power	75 HP (56 kw) @ 5000 RPM 90 HP (67.1 kw) @ 5000 RPM
	Idle RPM in Gear	700 ± 50 EMM Controlled
	Idle RPM in Neutral	600 ± 50 EMM Controlled
	Test Propeller	(L) Models: P/N 386246 (X) Models: P/N 387388
	Weight (may vary depending on model)	(L) Models: 310 lbs. (141 kg) (X) Models: 327 lbs. (148 kg)
	Lubrication	<i>Evinrude/Johnson XD100, XD50, XD30; or</i> NMMA TC-W3RL certified
	Engine Type	In-line, 3 Cylinder, Two-Cycle, E-TEC
	Displacement	79.1 cu. in. (1296 cc)
	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)	
FUEL	Fuel/Oil Control	EMM Controlled
	Starting Enrichment	EMM Controlled
	Minimum (High) Fuel Pressure	24 to 28 psi (165 to 193 kPa)
	Minimum Fuel Lift Pump Pressure	4 psi (28 kPa)
	Maximum Fuel Inlet Vacuum	4 in. Hg.
	Minimum Octane	87 AKI (R+M)/2 or 90 RON
	Additives	<i>2+4® Fuel Conditioner, Fuel System Cleaner</i> Use of other additives may result in engine damage. See FUEL REQUIREMENTS on p. 51 for additional information

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1

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ELECTRICAL	Minimum Battery Requirements	640 CCA (800 MCA)
	Alternator	25-Amp fully regulated
	Tachometer Setting	6 pulse (12 pole)
	Engine Fuse	P/N 967545 – 10 A
COOLING	Temperature (maximum)	200°F (94°C)
	Thermostat	143°F (62°C)
	Water pressure	16 psi minimum @ 5000 RPM
IGNITION	Type	Capacitor Discharge
	Firing Order	1-2-3
	Ignition Timing	<i>EMM</i> Controlled
	RPM Limit in Gear	6250
	RPM Limit in Neutral	1800
	Crankshaft Position Sensor Air Gap	Fixed
	Spark Plug	Refer to Emission Control Information Label <i>Champion</i> [†] QC12PEP @ 0.025 ± .003 in. (0.65 mm)
GEARCASE	Gear Ratio	20 in. (L) Models: 13:26 (.500) 2:1 25 in. (X) Models: 12:27 (.440) 2.25:1
	Lubricant	<i>Ultra-HPF™ Gearcase Lube</i>
	Capacity	20 in. (L) Models: 26 fl. oz. (770 ml) 25 in. (X) Models: 42 fl. oz. (1250 ml)
	Shift Rod Height	20 in. (L) Models: 21.25 (539.75 mm) ± one-half turn 25 in. (X) Models: 26.25 (666.75 mm) ± one-half turn
	Shift Cable Stroke	1.125 to 1.330 in. (28.6 to 33.8 mm) measured between NEUTRAL and FORWARD
POWER TRIM/TILT	Lubrication	<i>Power Trim/Tilt & Power Steering Fluid</i> ; or GM [†] Dexron [†] II Automatic Transmission Fluid
	Fluid Capacity	21 fl. oz. (622 ml)
	Trim Range	0° to 21°
	Tilt Range	22° to 75°
	Tilt UP Stall Pressure	1500 psi (10342 kPa)
	Tilt IN Stall Pressure	800 psi (5516 kPa)