SERVICE SPECIFICATIONS

75 – 90 HP E-TEC 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 <i>EMM</i> Controlled	
	Idle RPM in Neutral	600 ± 50 <i>EMM</i> Controlled	
	Test Propeller	(L) Models: P/N 386246 (X) Models: P/N 387388	
	Weight (may vary depending on model)	(L) Models: 320 lbs. (145 kg) (X) Models: 335 lbs. (152 kg)	
	Lubrication	Evinrude/Johnson XD100, XD50, XD30; or NMMA TC-W3 certified	
	Engine Type	In-line, 3 Cylinder, Two-Cycle	
7	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	3 psi (21 kPa)	
	Maximum Fuel Inlet Vacuum	4 in. Hg.	
	Minimum Octane	87 AKI (R+M)/2 or 90 RON	
	Additives	2+4® Fuel Conditioner, Fuel System Cleaner	
		Use of other additives may result in engine damage.	
		See Fuel Requirements on p. 51 for additional information	

75 – 90 HP E-TEC Models			
ELECTRICAL	Minimum Battery Requirements	640 CCA (800 MCA) or 800 CCA (1000 MCA) below 32° F (0° C)	
	Alternator	25-Amp fully regulated	
	Tachometer Setting	6 pulse (12 pole)	
	Engine Fuse	P/N 967545 – 10 A	
COOLING	Maximum Temperature	212°F (100°C)	
	Thermostat	143°F (62°C)	
S	Water pressure	16 psi minimum @ 5000 RPM	
	Туре	Capacitor Discharge	
	Firing Order	1-2-3	
_	Ignition Timing	EMM Controlled	
Q	RPM Limit in Gear	6250	
GNITION	RPM Limit in Neutral	1800	
16/	Crankshaft Position Sensor Air Gap	Fixed	
	Spark Plug	Refer to Emission Control Information Label	
		Champion [†] QC10WEP @ 0.028 ± .003 in. (0.71 mm)	
	Gear Ratio	20 in. (L) Models: 13:26 (.500) 2:1 25 in. (X) Models: 12:27 (.444) 2.25:1	
1SE	Lubricant	HPF XR Gearcase Lube	
SEARCASE	Capacity	20 in. (L) Models: 31.6 fl. oz. (935 ml) 25 in. (X) Models: 32.8 fl. oz. (970 ml)	
GE,	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	
171	Lubrication	Single Piston System-Evinrude/Johnson Biodegradable TNT Fluid	
T/N	Fluid Capacity	21 fl. oz. (620 ml)	
TRII	Trim Range	0° to 15°	
POWER TRIM/TILT	Tilt Range	16° to 65°	