## **SERVICE SPECIFICATIONS**

	40 - 65 HP E-TEC Models		
	Full Throttle Operating Range RPM	40 HP – 5000 to 6000 RPM 50 HP – 5500 to 6000 RPM 60 HP – 5500 to 6000 RPM 650 HP – 5500 to 6000 RPM	
	Power	40 HP (30 kw) @ 5500 RPM 50 HP (37 kw) @ 5750 RPM 60 HP (45 kw) @ 5750 RPM 65 HP (45 kw) @ 5750 RPM	
	Idle RPM in Gear	800 ± 50 <i>EMM</i> Controlled	
	Idle RPM in Neutral	750 ± 50 <i>EMM</i> Controlled	
	Test Propeller	P/N 382861	
ENGINE	Weight (may vary depending on model)	(RL) Models: 232 lbs. (105 kg) (PL) Models: 240 lbs. (109 kg)	
	Lubrication	Evinrude/Johnson XD100, XD50, XD30; or NMMA TC-W3 certified	
7	Engine Type	In-line, 2 Cylinder, Two-Cycle	
	Displacement	52.7 cu. in. (864 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 Journal	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 <sup>®</sup> Fuel Conditioner, Fuel System Cleaner Use of other additives may result in engine damage.	
		See Fuel Requirements on p. 53 for additional information	

		40 – 65 HP E-TEC Models
ELECTRICAL	Minimum Battery Requirements	640 CCA (800 MCA) <b>or</b> 800 CCA (1000 MCA) below 32° F (0° C)
TRI	Alternator	25-Amp fully regulated
C	Tachometer Setting	6 pulse (12 pole)
EL	Engine Fuse	P/N 967545 – 10 A
9	Thermostat	143°F (62°C)
COOLING	Maximum Temperature	212°F (100°C)
ပိ	Water pressure	11 psi minimum @ 5000 RPM
	Туре	Capacitor Discharge
	Firing Order	1-2
	Ignition Timing	EMM Controlled
Ó	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 <sup>†</sup> QC10WEP @ 0.028 ± .003 in. (0.71 mm)
1	Gear Ratio	12:32 (.375)
GEARCASE	Lubricant	HPF XR Gearcase Lube HPF Pro in high performance or commercial applications
4R(	Capacity	22 fl. oz. (650 ml)
)E	Shift Rod Height	<b>20 in. (L) Models:</b> 21.38 (543 mm) ± one-half turn
	Shift Cable Stroke	1.125 to 1.330 in. (28.6 to 33.8 mm) measured between NEUTRAL and FORWARD
TILT	Lubrication	Evinrude/Johnson Biodegradable TNT Fluid
'RIM/	Fluid Capacity	15.2 fl. oz. (450 ml)
POWER TRIM/TILT	Trim Range	0° to 15°
POV	Tilt Range	16° to 65°