REFERENCE INFORMATION SERVICE SPECIFICATIONS

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 65 HP – 5500 to 6000 RPM		
	Power	40 HP (29.4 kw) @ 5500 RPM 50 HP (36.8 kw) @ 5750 RPM 60 HP (44.1 kw) @ 5750 RPM 65 HP (47.8 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		
NE	Weight (may vary depending on model)	(RL) Models: 232 lbs. (105 kg) (HL, PL, SL, TL) Models: 240 lbs. (109 kg)		
ENGINE	Lubrication	<i>Evinrude/Johnson XD100, XD50, XD30</i> ; or NMMA TC-W3 certified		
	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/Oil Control	EMM Controlled		
	Starting Enrichment	EMM Controlled		
	Minimum (High) Fuel Pressure	24 to 28 psi (165 to 193 kPa)		
EL	Minimum Fuel Lift Pump Pressure	3 psi (21 kPa)		
FUE	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. 131 for additional information		

	40 – 65 HP E-TEC Models			
CAL	Minimum Battery Requirements	640 CCA (800 MCA) or 800 CCA (1000 MCA) below 32° F (0° C)		
ELECTRICAL	Alternator	25-Amp fully regulated. Refer to Predelivery and Installation Guide for multiple battery applications.		
Ē	Tachometer Setting	6 pulse (12 pole)		
E	Engine Fuse	P/N 967545 – 10 A		
VG	Thermostat 14	3°F (62°C)		
COOLING	Maximum Temperature	212°F (100°C)		
Ŭ	Water pressure	12 to 14 psi @ 5000 RPM		
	Туре	Capacitor Discharge		
	Firing Order	1-2		
1	Ignition Timing	EMM Controlled		
V	RPM Limit in Gear	6250		
GNITION	RPM Limit in Neutral	1800		
IGN	Crankshaft Position Sensor Air Gap	Fixed		
	Spark Plug	Refer to Emission Control Information Label		
		<i>Champion</i> [†] QC10WEP @ 0.028 ± 0.003 in. (0.71 mm)		
	Gear Ratio	12:32 (.375)		
GEARCASE	Lubricant	HPF XR Gearcase Lube HPF Pro in high performance or commercial applications		
4 R(Capacity	22 fl. oz. (650 ml)		
3E/	Shift Rod Height	20 in. (L) Models: 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		
דורד	Lubrication	Evinrude/Johnson Biodegradable TNT Fluid		
TRIM	Fluid Capacity	15.2 fl. oz. (450 ml)		
POWER TRIM/TILT	Trim Range	0° to 15°		
POV	Tilt Range	16° to 65°		

REFERENCE INFORMATION SERVICE SPECIFICATIONS

	75 – 90 HP E-TEC Models			
	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)		
ENGINE	Lubrication	Evinrude/Johnson XD100, XD50, XD30; or NMMA TC-W3 certified		
Ň	Engine Type	In-line, 3 Cylinder, Two-Cycle		
4	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/Oil Control	EMM Controlled		
	Starting Enrichment	EMM Controlled		
	Minimum (High) Fuel Pressure	24 to 28 psi (165 to 193 kPa)		
EL	Minimum Fuel Lift Pump Pressure	3 psi (21 kPa)		
FUEL	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. 131 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. Refer to Predelivery and Installation Guide for multiple battery applications.			
Щ	Tachometer Setting	6 pulse (12 pole)			
Ш	Engine Fuse	P/N 967545 – 10 A			
Ŋ	Maximum Temperature	212°F (100°C)			
COOLING	Thermostat	143°F (62°C)			
ŭ	Water pressure	19 to 21 psi @ 5000 RPM			
	Туре	Capacitor Discharge			
	Firing Order	1-2-3			
	Ignition Timing	EMM Controlled			
õ	RPM Limit in Gear	6250			
GNITION	RPM Limit in Neutral	1800			
Ð	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			
1SF	Lubricant	HPF XR Gearcase Lube			
GEARCASE	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			
נורד	Lubrication	Single Piston System-Evinrude/Johnson Biodegradable TNT Fluid			
E/W	Fluid Capacity	21 fl. oz. (620 ml)			
TRI	Trim Range	0° to 15°			
POWER TRIM/I	Tilt Range	16° to 65°			