

REFERENCE INFORMATION
SERVICE SPECIFICATIONS

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MFE 55 Models		
ENGINE	Full Throttle Operating Range RPM	55 HP – 5500 to 6000 RPM
	Power	55 HP (40.5 kw) @ 5750 RPM
	Idle RPM in Neutral	750 ± 50 <i>EMM</i> Controlled
	Weight	MRL - 250 lbs. (113 kg) MJRL - 270 lbs. (122 kg))
	Lubrication	<i>Evinrude/Johnson XD100</i>
	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)
	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	<i>EMM</i> Controlled
	Starting Enrichment	<i>EMM</i> 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.
	Heavy Fuels	JP5, JP8, Jet A, Kerosene
	Gasoline Based Fuels	Gasoline, Gasohol, 87AKI (R+M)/2 or 90 RON minimum
	Emergency Fuel	Diesel DFM-F76, BioDiesel IMPORTANT: If outboard must be run on diesel, it should then be run on gasoline to clean internal components. See Fuel Requirements on p. 37 for additional information
Additives	2+4 [®] <i>Fuel Conditioner, Fuel System Cleaner</i> Use of other additives may result in engine damage.	
	See Fuel Requirements on p. 37 for additional information	

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ELECTRICAL	Minimum Battery Requirements	(with Electric Start Kit) 640 CCA (800 MCA) or 800 CCA (1000 MCA) below 32° F (0° C)
	Alternator	55-Amp system current 25-Amp available for battery charging
	Tachometer Setting	6 pulse (12 pole)
	Engine Fuse	P/N 967545 – 10 A
COOLING	Thermostat 14	3°F (62°C)
	Maximum Temperature	212°F (100°C)
	Water pressure	12 to 14 psi @ 5000 RPM
IGNITION	Type	Capacitor Discharge
	Firing Order	1-2
	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> [†] QC10WEP @ 0.028 ± .003 in. (0.76 mm)
GEARCASE	Gear Ratio	12:32 (.375)
	Lubricant	<i>HPF PRO Gearcase Lube</i>
	Capacity	22 fl. oz. (650 ml)
	Shift Rod Height	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