## SPECIAL TOOLS AND SERVICE SPECIFICATIONS TECHNICAL DATA

## **TECHNICAL DATA**

		40, 50 HP Models
	Full Throttle Operating Range RPM	40 HP – 4500 to 5500 RPM 50 HP – 4800 to 6000 RPM
	Power	40 HP (30 kw) @ 5000 RPM 50 HP (37 kw) @ 5500 RPM
	Idle RPM in Gear	800 ± 50 EMM Controlled
	Idle RPM in Neutral	750 ± 50 EMM Controlled
	Test Propeller	P/N 382861
	Weight (may vary depending on model)	(L) Models: 235 lbs. (107 kg)
INE	Lubrication	Evinrude/JohnsonXD100, XD50, XD30, or NMMA TC-W3RL certified
ENGINE	Engine Type	In-line, 2 Cylinder, Two-Cycle, E-TEC
Ш	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)
FUEL	Minimum Fuel Lift Pump Pressure	4 psi (28 kPa)
E.	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. 52 for additional information

## SPECIAL TOOLS AND SERVICE SPECIFICATIONS TECHNICAL DATA

		40, 50 HP Models
ICAL	Minimum Battery Requirements	640 CCA (800 MCA)
ELECTRICAL	Alternator	25-Amp fully regulated
	Tachometer Setting	6 pulse (12 pole)
	Engine Fuse	P/N 967545 – 10 A
NG	Thermostat	143°F (62°C)
COOLING	Maximum Temperature	190°F (88°C)
	Water pressure	11 psi minimum @ 5000 RPM
	Туре	Capacitor Discharge
	Firing Order	1-2
_	Ignition Timing	EMM Controlled
GNITION	RPM Limit in Gear	6250
Ę	RPM Limit in Neutral	1800
<b>B</b>	Crankshaft Position Sensor Air Gap	Fixed
	Spark Plug	Refer to Emission Control Information Label
		Champion <sup>†</sup> QC12PEP @ 0.025 ± .003 in. (0.65 mm)
ш	Gear Ratio	12:32 (.375)
GEARCASE	Lubricant	Ultra-HPF Gearcase Lube
RC	Capacity	22 fl. oz. (650 ml)
EA	Shift Rod Height	20 in. (L) Models: 21.38 (543 mm) ± one-half turn
0	Shift Cable Stroke	1.125 to 1.330 in. (28.6 to 33.8 mm) measured between NEUTRAL and FORWARD
TILT	Lubrication	Power Trim/Tilt & Power Steering Fluid; or GM Dexron II Automatic Transmission Fluid
TRIM/TILT	Fluid Capacity	15 fl. oz. (450 ml)
POWER 1	Trim Range	0° to 15°
POV	Tilt Range	16° to 65°