

SPECIAL TOOLS AND SERVICE SPECIFICATIONS

TECHNICAL DATA

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	HP	40, 50
ENGINE	Full Throttle Operating Range RPM	4500–5500
	Power	40 HP (29.8 kw) @ 5000 RPM 50 HP (37.0 kw) @ 5000 RPM
	Idle RPM in Gear	800 ± 25
	Weight	40R Models: 195 lbs. (88 kg) 40RL, 40/50 PL Models: 202 lbs. (92 kg)
	Lubrication	<i>Evinrude/Johnson XD30</i> formula outboard oil Refer to Oil Requirements on p. 58.
	Engine Type	In-line 2 cylinder
	Displacement	45 cu. in. (737 cm ³)
	Bore	3.1875 in. (80.96 mm)
	Stroke	2.820 in. (71.63 mm)
	Standard Bore	3.1870 to 3.1880 in. (80.95 to 80.98 mm) To bore oversize, add piston oversize dimension to standard bore.
	Top Crankshaft Journal	1.4986 to 1.4991 in. (38.06 to 38.08 mm)
	Center Crankshaft Journals	1.3745 to 1.3749 in. (34.91 to 34.92 mm)
	Bottom Crankshaft Journal	1.1810 to 1.1815 in. (30.00 to 30.01 mm)
	Rod Crankpin	1.1823 to 1.1828 in. (30.03 to 30.04 mm)
	Piston Ring End Gap, Both	0.019 to 0.031 in. (0.48 to 0.79 mm)
	Test Propeller	P/N 432968
FUEL	Fuel/Oil Ratio	40/50 PL Models: Controlled by oil injection system (OMS) 40R, 40RL Models: 50:1 fuel/oil mixture
	Carburetion	Two single-throat carburetor, float feed
	Calibration	Adjustable low speed Fixed intermediate and high speed
	Low-Speed Setting	Refer to CARBURETOR MIXTURE ADJUSTMENT on p. 175.
	Starting Enrichment	40R, 40RL Models - Manual choke 40/50 PL Models - Electric primer
	Carburetor Float Level Setting	Float gauge, P/N 324891
	Carburetor Float Drop Setting	1 1/8 to 1 5/8 in. (28 to 41 mm)
	Preferred Fuel	Regular unleaded, plus grade unleaded, premium unleaded gasolines
	Acceptable Fuel	Any of the above gasolines with 10% Ethanol or 5% Methanol with 5% co-solvents
	Minimum Octane	87 AKI (R+M)/2 or 90 RON
	Additives	<i>2+4[®] Fuel Conditioner, Fuel System Cleaner, Carbon Guard</i> Use only Evinrude/Johnson recommended fuel additives. The use of other additives may result in engine damage. See Fuel Requirements on p. 57 for additional information.