

SPECIAL TOOLS AND SERVICE SPECIFICATIONS
TECHNICAL DATA

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	HP	3.5	6/8
ENGINE	Full Throttle Operating Range RPM	4500-5500	6 HP: 4500-5500 8 HP: 5000-6000
	Power	3.5 HP (2.6 kw) @ 5000 RPM	6 HP (4.5 kw) @ 5000 8 HP (6 kw) @ 5000
	Idle RPM in Gear	1100 ± 100	700 ± 25
	Weight	(R) Models: 29.7 lbs. (13.5 kg)	(R) Models: 56 lbs. (25.4 kg) (RL) Models: 58.5 lbs. (26.5 kg)
	Lubrication	<i>Evinrude/Johnson XD30</i> formula outboard oil Refer to Engine Lubricant on p. 36.	
	Engine Type	Single cylinder	In-line 2 cylinder
	Displacement	4.75 cu. in. (77.8 cm ³)	10 cu. in. (164 cm ³)
	Bore	1.8898 in. (48 mm)	1.9375 in. (49.21 mm)
	Stroke	1.6929 in. (43 mm)	1.700 in. (43.18 mm)
	Standard Bore	1.8890 to 1.8906 in. (48.00 to 48.02 mm)	1.9373 to 1.9380 in. (49.21 to 49.23 mm)
		To bore oversize, add piston oversize dimension to standard bore.	
	Top Crankshaft Journal	0.7875 to 0.7878 in. (20.002 to 20.010 mm)	0.8762 to 0.8767 in. (22.26 to 22.27 mm)
	Center Crankshaft Journals	—	0.8120 to 0.8125 in. (20.62 to 20.64 mm)
	Bottom Crankshaft Journal	0.5906 to 0.5910 in. (15.001 to 15.011 mm)	0.6691 to 0.6695 in. (17.00 to 17.01 mm)
	Rod Crankpin	0.6299 to 0.6301 in. (16.00 to 16.005 mm)	0.6695 to 0.6700 in. (17.01 to 17.02 mm)
	Piston Diameter, Standard	1.8868 to 1.8873 (47.9247 to 47.9374)	1.9345 to 1.9355 (49.14 to 49.16 mm)
	Piston Ring End Gap, Both	0.0059 to 0.0138 in. (0.15 to 0.35 mm)	0.005 to 0.015 in. (0.13 to 0.38 mm)
	Piston Ring Groove Side Clearance, Both	0.0026 in (0.066 mm) maximum	0.004 in. (0.10 mm) maximum
	Test Propeller	115306	390239
	Minimum Test RPM	3.5 HP: 5000	6 HP: 4800 8 HP: 5300
FUEL	Fuel/Oil Ratio	50:1 (25:1 break-in)	
	Carburetion	One single-throat carburetor, float feed	
	Calibration	Adjustable low speed	Adjustable low speed; Fixed high speed
	Low-Speed Setting	Refer to FUEL SYSTEM section.	
	Starting Enrichment	Manual Choke	
	Carburetor Float Level Setting	Refer to FUEL SYSTEM section.	Float gauge P/N 324891
	Carburetor Float Drop Setting		1 to 1 3/8 in. (25 to 35 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	2+4 [®] Fuel Conditioner, Fuel System Cleaner, Carbon Guard Use only <i>Evinrude/Johnson</i> recommended fuel additives. The use of other additives may result in engine damage.	
See FUEL REQUIREMENTS on p. 34 for additional information.			