

SERVICE SPECIFICATIONS AND SPECIAL TOOLS
TECHNICAL DATA

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		HP	3.5
ENGINE	Full Throttle Operating Range RPM	4500-5500	
	Power	3.5 HP (2.6 kw) @ 5000 RPM	
	Idle RPM in Gear	1100 ± 100	
	Weight	(R) Models: 29.7 lbs. (13.5 kg)	
	Lubrication	<i>Evinrude/Johnson XD30</i> formula outboard oil Refer to Engine Lubricant on p. 34.	
	Engine Type	Single cylinder	
	Displacement	4.75 cu. in. (77.8 cm ³)	
	Bore	1.8898 in. (48 mm)	
	Stroke	1.6929 in. (43 mm)	
	Standard Bore	1.8890 to 1.8906 in. (48.00 to 48.02 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)–	
	Bottom Crankshaft Journal	0.5906 to 0.5910 in. (15.001 to 15.011 mm)	
	Rod Crankpin	0.6299 to 0.6301 in. (16.00 to 16.005 mm)	
	Piston Diameter, Standard	1.8868 to 1.8873 (47.9247 to 47.9374)	
	Piston Ring End Gap, Both	0.0059 to 0.0138 in. (0.15 to 0.35 mm)	
	Piston Ring Groove Side Clearance, Both	0.0026 in (0.066 mm) maximum	
	Test Propeller	115306	
	Minimum Test RPM	3.5 HP: 5000	
	FUEL	Fuel/Oil Ratio	50:1 (25:1 break-in)
Carburetion		One single-throat carburetor, float feed	
Calibration		Adjustable low speed	
Low-Speed Setting		Refer to FUEL SYSTEM section.	
Starting Enrichment		Manual Choke	
Carburetor Float Level Setting		Refer to FUEL SYSTEM section.	
Carburetor Float Drop Setting			
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. 33 for additional information.		