

**SPECIAL TOOLS AND SERVICE SPECIFICATIONS**  
**TECHNICAL DATA**

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	HP	90, 115	150, 175
<b>ENGINE</b>	Full Throttle Operating Range RPM	4500–5500	
	Power	90 HP (67.2 kw) @ 5000 RPM 115 HP (85.8 kw) @ 5000 RPM	150 HP (112 kw) @ 5000 175 HP (131 kw) @ 5000
	Idle RPM in Gear	650 ± 50	
	Weight	<b>20 in. (L) Models:</b> 335 lbs. (152 kg) <b>25 in. (X) Models:</b> 352 lbs. (160 kg)	<b>20 in. (L) Models:</b> 383 lbs. (174 kg) <b>25 in. (X) Models:</b> 391 lbs. (177 kg)
	Lubrication	<i>Evinrude/Johnson XD30 Formula Outboard Oil</i> Refer to <b>Oil Requirements</b> on p. 64.	
	Engine Type	60° V 4-Cyl Loop-Charged	60° V 6-Cyl Loop-Charged
	Displacement	105.4 cu. in. (1726 cm <sup>3</sup> )	158 cu. in. (2589 cm <sup>3</sup> )
	Bore	3.600 in (91.44 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 Journals	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)	
	Test Propeller	<b>PL, VL, GL</b> – P/N 386246 or P/N 433068 <b>PX, WPL</b> – P/N 387388	<b>PL, VL, GL</b> – P/N 387388 <b>CX</b> – P/N 398673
	<b>FUEL</b>	Fuel/Oil Ratio	Controlled by oil injection system
Carburetion		Two dual-throat carburetors, float feed	Two triple-throat carburetors, float feed
Calibration		Adjustable slow speed, fixed intermediate and high speed	
Needle Valve Setting		Refer to <b>Emissions Compliance</b> on p. 204.	
Starting Enrichment		Electric primer solenoid	
Carburetor Float Level Setting		Level with gasket surface ± 0.03 in. (0.8 mm), chamber inverted	
Carburetor Float Drop Setting		11/16 to 1 1/8 in. (17 to 28 mm)	
Vapor Separator Float Level Setting		Parallel with Separator Body	
Vapor Separator Float Drop Setting		1 1/4 to 1 11/32 in. (32 to 34 mm)	
Preferred Fuel		Regular unleaded, mid-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 <sup>®</sup> Fuel Conditioner, Fuel System Cleaner, Carbon Guard Use of other additives may result in engine damage. See <b>Fuel Requirements</b> on p. 63 for additional information.		