

2007 Service Manual



75, 90 HP

Evinrude® E-TEC®

EVINRUDE®



INTRODUCTION

MODELS COVERED IN THIS MANUAL

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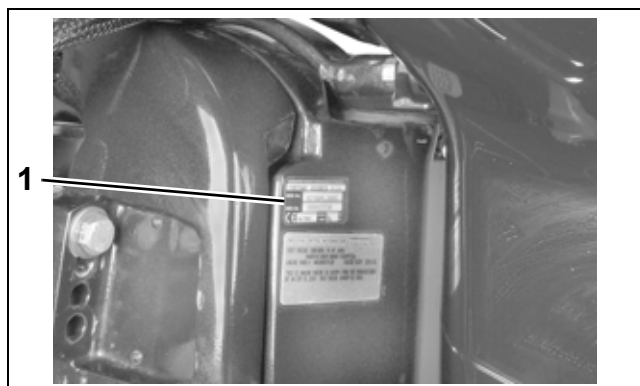
This manual covers service information on all 3-cylinder, 79 cubic inch, *Evinrude E-TEC™* models.

Model Number	Start	Shaft	Steer
E75DPLSUM	Electric	20"	Remote
E90DPLSUM	Electric	20"	Remote
E90DPXSUM	Electric	25"	Remote
E90DSLUM	Electric	20"	Remote

Use this manual together with the proper Parts Catalog for part numbers and for exploded views of the outboard, which are a valuable aid to disassembly and reassembly. This manual presents the U.S. values and dimensions first and the metric values and dimensions second, inside parentheses ().

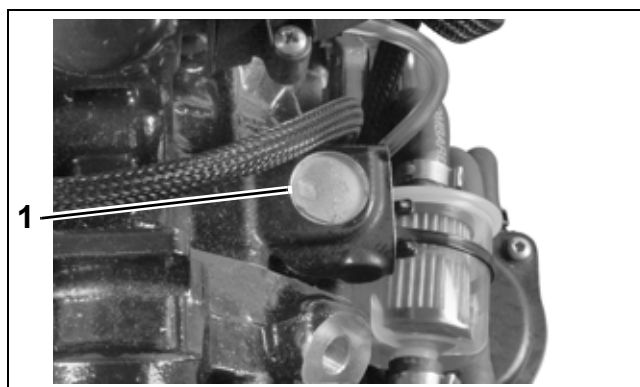
Identifying Model and Serial Numbers

Outboard model and serial numbers are located on the swivel bracket and on the powerhead.



1. Model and serial number

002147



1. Serial number

002226

TECHNICAL DATA

75 – 90 HP E-TEC Models		
ENGINE	Full Throttle Operating Range RPM	4500 to 5500 RPM
	Power	75 HP (56 kw) @ 5000 RPM 90 HP (67.1 kw) @ 5000 RPM
	Idle RPM in Gear	700 ± 50 EMM Controlled
	Idle RPM in Neutral	600 ± 50 EMM Controlled
	Test Propeller	(L) Models: P/N 386246 (X) Models: P/N 387388
	Weight (may vary depending on model)	(L) Models: 320 lbs. (145 kg) (X) Models: 335 lbs. (152 kg)
	Lubrication	Evinrude/Johnson XD100, XD50, XD30; or NMMA TC-W3 certified
	Engine Type	In-line, 3 Cylinder, Two-Cycle
	Displacement	79.1 cu. in. (1296 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 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)
FUEL	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)
	Minimum Fuel Lift Pump Pressure	3 psi (21 kPa)
	Maximum Fuel Inlet Vacuum	4 in. Hg.
FUEL	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.
	Additives	See Fuel Requirements on p. 57 for additional information