

## MODELS COVERED IN THIS MANUAL

This manual covers service information on the following *Evinrude E-TEC* models:

- 35.1 cubic inch (.57 L), 2-Cylinder starting with serial number 5344712.

Model Number	Shaft Length	Color	Gearcase		Steering	Starting	Midsection
			Type	Gear Ratio			
E15DHPLAA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Power Tilt
E15HPSLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Power Tilt
E15DHTLAA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Power Tilt
E15HPSXAA_	25 in.	White	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Power Tilt
E15HTSLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Power Tilt
E15HTSXAA_	25 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Power Tilt
E25DELA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Manual Tilt
E25DPLAA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Power Tilt
E25DPSLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Power Tilt
E25DRAA_	15 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Rope	Manual Tilt
E25DRLAA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Rope	Manual Tilt
E25DRSAA_	15 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Rope	Manual Tilt
E25DRSLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Rope	Manual Tilt
E25DTEAA_	15 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Manual Tilt
E25DTELA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Manual Tilt
E25DTLAA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Power Tilt
E25DTSLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Power Tilt
E25TESLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Manual Tilt
E30DELA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Manual Tilt
E30DPLAA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Power Tilt
E30DPSLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Remote	Electric/Rope	Power Tilt
E30DRAA_	15 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Rope	Manual Tilt
E30DRLAA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Rope	Manual Tilt
E30DRSAA_	15 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Rope	Manual Tilt
E30DRSLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Rope	Manual Tilt
E30DTELA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Manual Tilt
E30DTLAA_	20 in.	Blue	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Power Tilt
E30DTSLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Power Tilt
E30TESLAA_	20 in.	White	H	13:28 / 0.465 / 2.15:1	Tiller	Electric/Rope	Manual Tilt

**REFERENCE INFORMATION**  
**SERVICE SPECIFICATIONS**

**SERVICE SPECIFICATIONS**

		<b>15 HO Models</b>	<b>25 – 30 HP Models</b>
<b>ENGINE</b>	Full Throttle Operating Range RPM	15 HP – 5500 to 6100 RPM	25 HP – 5500 to 6000 RPM 30 HP – 5500 to 6000 RPM
	Power	15 HP (11.0 kw) @ 5800 RPM	25 HP (18.4 kw) @ 5750 RPM 30 HP (22.1 kw) @ 5750 RPM
	Idle RPM in Gear	750 ± 50 <i>EMM</i> Controlled	
	Idle RPM in Neutral	700 ± 50 <i>EMM</i> Controlled	
	Weight (may vary depending on model)	<b>(DHPL) Models:</b> 181 lbs. (82 Kg) <b>(DHTL) Models:</b> 187 lbs. (85 Kg) <b>(HPSX) Models:</b> 187 lbs. (85 Kg) <b>(HTSX) Models:</b> 190 lbs. (86 Kg)	<b>(R) Models:</b> 152 lbs. (69 kg) <b>(RL) Models:</b> 156 lbs. (71 kg) <b>(TE) Models:</b> 166 lbs. (105 kg) <b>(TEL) Models:</b> 170 lbs. (75 kg) <b>(DTL) Models:</b> 191 lbs. (86 kg) <b>(DEL) Models:</b> 164 lbs. (74 kg) <b>(DRML) Models:</b> 154 lbs. (70 kg) <b>(PL) Models:</b> 185 lbs. (84 kg)
	Lubrication	<i>Evinrude/Johnson XD100, XD50, XD30</i> ; or NMMA TC-W3 certified	
	Engine Type	In-line, 2 Cylinder, Two-Cycle	
	Displacement	35.1 cu. in. (575 cc)	
	Bore	2.992 in (76 mm)	
	Stroke	2.500 in. (63.50 mm)	
	Standard Bore	2.9916 to 2.9931 in. (75.989 to 76.026 mm) To bore oversize, add piston oversize dimension to standard bore	
	Top Crankshaft Journal	1.6235 to 1.6245 in. (41.237 to 41.262 mm)	
	Center Crankshaft Journal	1.7461 to 1.7470 in. (44.350 to 44.375 mm)	
	Bottom Crankshaft Journal	2.0450 to 2.0459 in. (51.942 to 51.967 mm)	
	Rod Crankpin	1.1815 to 1.1817 in. (30.011 to 30.016 mm)	
	Piston Ring End Gap, Both	0.011 to 0.019 in. (0.30 to 0.50 mm)	
<b>FUEL</b>	Fuel/Oil Control	<i>EMM</i> Controlled	
	Starting Enrichment	<i>EMM</i> Controlled	
	Minimum (High) Fuel Pressure	28 to 32 psi (193 to 220 kPa)	
	Minimum Fuel Lift Pump Pressure	2 psi (14 kPa)	
	Maximum Fuel Inlet Vacuum	4 in. Hg.	
	Minimum Octane	87 AKI (R+M)/2 or 90 RON	
	Additives	2+4 <sup>®</sup> <i>Fuel Conditioner, Fuel System Cleaner</i> Use of other additives may result in engine damage. See <b>FUEL SYSTEM REQUIREMENTS</b> on p. 120 for additional information	

**REFERENCE INFORMATION**  
**SERVICE SPECIFICATIONS**

1

		15 HO Models	25 – 30 HP Models
<b>ELECTRICAL</b>	Minimum Battery Requirements	640 CCA (800 MCA) <b>or</b> 800 CCA (1000 MCA) below 32° F (0° C)	
	Alternator	15-Amp fully regulated Refer to <b>Installation and Predelivery Guide</b> for multiple battery applications.	
	Tachometer Setting	6 pulse (12 pole)	
	Engine Fuse	P/N 967545 – 10 A	
<b>COOLING</b>	Thermostat	143°F (62°C)	
	Maximum Temperature	212°F (100°C)	
<b>IGNITION</b>	Type	IDI Inductive Ignition	
	Firing Order	1-2	
	Ignition Timing	<i>EMM</i> Controlled	
	RPM Limit in Gear	6250	
	RPM Limit in Neutral	1100	
	Crankshaft Position Sensor Air Gap	Fixed	
	Spark Plug	Refer to Emission Control Information Label <i>Champion</i> <sup>†</sup> QC10WEP @ 0.028 ± 0.003 in. (0.71 mm)	
<b>GEARCASE</b>	Gear Ratio	13:28 (.465)	
	Lubricant	<i>HPF XR Gearcase Lube</i> <i>HPF Pro</i> in high performance or commercial applications	
	Capacity	11 fl. oz. (325 ml)	
	Shift Rod Height	fixed	
	Shift Cable Stroke	1.125 to 1.330 in. (28.6 to 33.8 mm) measured between NEUTRAL and FORWARD	
<b>POWER TRIM/TILT</b>	Lubrication	<i>Evinrude/Johnson</i> Biodegradable TNT Fluid	
	Fluid Capacity	11.7 fl. oz. (346 ml)	
	Trim Range	0° to 15°	
	Tilt Range	16° to 65°	