Models Covered

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

- 105.4 cubic inch (1.7 L) 60° V4, starting with serial number 5369327.

HP	Model Number	Shaft Length	Gearcase		Styling	Standard Features	Special Features
			Type	Gear Ratio			
90 H.O.	E90DHLAF_	20	S2	13:26 / .500 / 2:1	H.O.	Steel Steering Arm	H.O.
	E90HSLAF_	20	S2	13:26 / .500 / 2:1	H.O.	Stainless Steering Arm	H.O.
	E90HSXAF_	25	O	12:27 / .444 / 2.25:1	H.O.	Stainless Steering Arm	H.O.
	E90HGXAF_	25	O	12:27 / .444 / 2.25:1	H.O.	Stainless Steering Arm	H.O.
	E90HGLAF_	20	S2	13:26 / .500 / 2:1	H.O.	Steel Steering Arm	H.O.
115	E115DPLAF_	20	S2	13:26 / .500 / 2:1	Standard	Steel Steering Arm	
	E115DPLAF_	20	S2	11:26 / 0.42 / 2.36:1	Standard	Steel Steering Arm	
	E115DSLAF_	20	S2	13:26 / .500 / 2:1	Standard	Stainless Steering Arm	
	E115DSLAF_	20	S2	11:26 / 0.42 / 2.36:1	Standard	Stainless Steering Arm	
	E115DBXAF_	25	O	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
	E115DPXAF_	25	O	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
	E115DCXAF_	25	O[1]	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
	E115SNLAF_	20	S2	13:26 / .500 / 2:1	Pontoon	Stainless Steering Arm	Pontoon Series
	E115SNLAF_	20	O	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
	E115DGLAF_	20	S2	11:26 / 0.42 / 2.36:1	Standard	Steel Steering Arm	
	E115GNLAF_	20	O	12:27 / .444 / 2.25:1	Pontoon	Steel Steering Arm	Pontoon Series
	E115DGXAF_	25	O	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
	A115DSLAF_	20	S2	11:26 / 0.42 / 2.36:1	Standard	Stainless Steering Arm	
	A115DPXAF_	25	O	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
	A115DCXAF_	25	O[1]	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
	A115SNLAF_	20	S2	13:26 / .500 / 2:1	Pontoon	Stainless Steering Arm	Pontoon Series
	A115DGLAF_	20	S2	11:26 / 0.42 / 2.36:1	Standard	Steel Steering Arm	
	A115GNLAF_	20	O	12:27 / .444 / 2.25:1	Pontoon	Steel Steering Arm	Pontoon Series
	A115DGXAF_	25	O	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
115 H.O.	E115DHLAF_	20	S2	13:26 / .500 / 2:1	H.O.	Steel Steering Arm	H.O.
	E115DHXAF_	25	O	12:27 / .444 / 2.25:1	H.O.	Stainless Steering Arm	H.O.
	E115HSLAF_	20	S2	13:26 / .500 / 2:1	H.O.	Stainless Steering Arm	H.O.
	E115HGLAF_	20	S2	13:26 / .500 / 2:1	H.O.	Steel Steering Arm	H.O.
	A115GHLAF_	20	S2	13:26 / .500 / 2:1	H.O.	Steel Steering Arm	H.O.
	A115SHLAF_	20	S2	11:26 / 0.42 / 2.36:1	H.O.	Stainless Steering Arm	H.O.
	A115SHXAF_	25	O	12:27 / .444 / 2.25:1	H.O.	Stainless Steering Arm	H.O.
	A115GHXAF_	25	O	12:27 / .444 / 2.25:1	H.O.	Steel Steering Arm	H.O.
130	E130DPLAF_	20	S2	13:26 / .500 / 2:1	Standard	Steel Steering Arm	
	E130DSLAF_	20	S2	13:26 / .500 / 2:1	Standard	Stainless Steering Arm	
	E130DPXAF_	25	O	12:27 / .444 / 2.25:1	Standard	Steel Steering Arm	
	E130DCXAF_	25	O[1]	12:27 / .444 / 2.25:1	Standard	Stainless Steering Arm	
	E130DGLAF_	20	S2	13:26 / .500 / 2:1	Standard	Steel Steering Arm	

1. Counter Rotation

- 158.2 cubic inch (2.6 L) 60° V6, starting with serial number 5373292.

HP	Model Number	Shaft Length	Gearcase		Styling	Standard Features	Special Features
			Type	Gear Ratio			
135 H.O.	E135DHLAB_	20	L2	14:26 / .538 / 1.86:1	H.O.	Steel Steering Arm	H.O.
	E135HSLAB_	20	L2	14:26 / .538 / 1.86:1	H.O.	Stainless Steering Arm	H.O.
	E135DHXAB_	25	M2	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E135HCXAB_	25	M2[1]	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E135HGLAB_	20"	L2	13:24 / .542 / 1.85:1	H.O.	Steel Steering Arm	H.O.
	E135HGXAB_	25"	M2	13:24 / .542 / 1.85:1	H.O.	Stainless Steering Arm	H.O.
150	DE150PXAB_	25	O	14:26 / .538 / 1.86:1	Standard	Stainless Steering Arm	EST[2]
	DE150CXAB_	25	O	14:26 / .538 / 1.86:1	Standard	Stainless Steering Arm	EST[2]
	E150DPLAB_	20	O	14:26 / .538 / 1.86:1	Standard	Steel Steering Arm	
	E150DSLAB_	20	O	14:26 / .538 / 1.86:1	Standard	Stainless Steering Arm	
	E150DBXAB_	25	M2	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E150DPXAB_	25	M2	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E150DCXAB_	25	M2[1]	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E150DGLAB_	20"	M2	13:24 / .542 / 1.85:1	Standard	Steel Steering Arm	
	E150DGXAB_	25"	M2[1]	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E150SNLAB_	20	O	14:26 / .538 / 1.86:1	Pontoon	Steel Steering Arm	Pontoon Series
	E150GNLAB_	20	O	14:26 / .538 / 1.86:1	Pontoon	Steel Steering Arm	Pontoon Series
150 H.O.	E150HGLAB_	20	L2	14:26 / .538 / 1.86:1	H.O.	Steel Steering Arm	H.O.
	E150HGXAB_	25	M2	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E150DHLAB_	20	L2	14:26 / .538 / 1.86:1	H.O.	Steel Steering Arm	H.O.
	E150HSLAB_	20	L2	14:26 / .538 / 1.86:1	H.O.	Stainless Steering Arm	H.O.
105	E105DGJAB_	20	Jet	N/A	Standard	Steel Steering Arm	Jet Drive
175	E175DPLAB_	20	O	14:26 / .538 / 1.86:1	Standard	Steel Steering Arm	
	E175DSLAB_	20	O	14:26 / .538 / 1.86:1	Standard	Stainless Steering Arm	
	E175DPXAB_	25	M2	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E175DCXAB_	25	M2[1]	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E175DGLAB_	20"	O	13:24 / .542 / 1.85:1	Standard	Steel Steering Arm	
	E175DGXAB_	25"	M2	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
200	DE200PXAB_	25	O	14:26 / .538 / 1.86:1	Standard	Stainless Steering Arm	EST[2]
	DE200CXAB_	25	O	14:26 / .538 / 1.86:1	Standard	Stainless Steering Arm	EST[2]
	E200DPLAB_	20	O	14:26 / .538 / 1.86:1	Standard	Steel Steering Arm	
	E200DSLAB_	20	O	14:26 / .538 / 1.86:1	Standard	Stainless Steering Arm	
	E200DPXAB_	25	M2	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E200DCXAB_	25	M2[1]	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	
	E200DGLAB_	20"	O	14:26 / .538 / 1.86:1	Standard	Steel Steering Arm	
	E200DGXAB_	25"	M2	13:24 / .542 / 1.85:1	Standard	Stainless Steering Arm	

1. Counter Rotation 2. Electronic Shift & Throttle

Service Specifications 60° V4 Models

	HP	90 H.O., 115, 115 H.O., 130
ENGINE	Full Throttle Operating Range	5500–6000 RPM
	Power	**90 H.O.:** (66.2 kw) @ 5500RPM **115 HP:** (84.6 kw) @ 5500 RPM **115 H.O.:** (84.6 kw) @ 5750 RPM **130 HP:** (95.6 kw) @ 5750 RPM
	Idle RPM in Gear	**90 H.O.:** 580 ± 50 **115:** 625 ± 50 **115 HO, 130:** 580 ± 50
	Weight (may vary depending on model)	**90 H.O., 115-20 in. (L):** 375 lbs. (170 kg) **115 H.O., 130-20 in. (L):** 390 lbs. (177 kg) **115-25 in. (X):** 390 lbs. (177 kg) **115 H.O., 130-25 in. (X):** 405 lbs. (184 kg)
	Lubrication	*Evinrude/Johnson XD100* Oil or *Evinrude/Johnson XD50* Oil Refer to **Recommended Lubricants** on p. 176
	Engine Type	60° V 4-Cylinder Loop-Charged
	Displacement	105.4 cu. in. (1727 cm^3)
	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)
	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	Fuel/Oil Ratio	*EMM* Controlled
	Starting Enrichment	*EMM* Controlled
	Preferred Fuel	Regular unleaded gasoline
	Acceptable Fuel	See **Fuel Requirements** on p. 145 for additional information.
	Minimum (High) Fuel Pressure @ IDLE RPM – 500 ± 50	22 to 28 psi (152 to 193 kPa)
	Minimum Fuel Lift Pump Pressure @ IDLE RPM – 500 ± 50	3 to 4 psi (21 to 28 kPa)
	Maximum Fuel Inlet Vacuum	4 in. Hg. (13.5 kPa)
	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. See **Fuel Requirements** on p. 145 for additional information.

Service Specifications 60° V6 Models

	HP	135, 150, 175, 200
ENGINE	Full Throttle Operating Range	5300–6000 RPM
	Power	**135 HP:** (100.7 kw) @ 5300 **150 HP:** (110.3 kw) @ 5300 RPM **175 HP:** (128.7 kw) @ 5300 RPM **200 HP:** (147.1 kw) @ 5300 RPM
	Idle RPM in Gear	500 ± 50
	Weight (may vary depending on model)	**20 in. (L):** 418 lbs. (190 kg) **25 in. (X):** 433 lbs. (196 kg)
	Lubrication	*Evinrude/Johnson XD100* Oil or *Evinrude/Johnson XD50* Oil Refer to **Recommended Lubricants** on p. 176
	Engine Type	60° V 6-Cylinder Loop-Charged
	Displacement	158.2 cu. in. (2592 cm^3)
	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)
	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	Fuel/Oil Ratio	*EMM* Controlled
	Starting Enrichment	*EMM* Controlled
	Preferred Fuel	Regular unleaded gasoline
	Acceptable Fuel	See **Fuel Requirements** on p. 145 for additional information.
	Minimum (High) Fuel Pressure @ IDLE RPM – 500 ± 50	22 to 28 psi (152 to 193 kPa)
	Minimum Fuel Lift Pump Pressure @ IDLE RPM – 500 ± 50	3 to 4 psi (21 to 28 kPa)
	Maximum Fuel Inlet Vacuum	4 in. Hg. (13.5 kPa)
	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. See **Fuel Requirements** on p. 145 for additional information.