

MODELS COVERED IN THIS MANUAL

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

- 200.1 cubic inch (3.3 L) 90° V6, starting with serial number 5323474.
- 210 cubic inch (3.4 L), 90° V6, starting with serial number 5347692.

Model Number	Displacement	Shaft Length	Color	Gearcase		Styling	Special Features
				Type	Gear Ratio		
E200HSLAA_	3.3 L, 200.1 cu. in.	20 in.	White	M2	13:24 / .542 / 1.85:1	Standard	H.O.
E200DHLAA_	3.3 L, 200.1 cu. in.	20 in.	Blue	M2	13:24 / .542 / 1.85:1	Standard	H.O.
E200DHXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2	13:24 / .542 / 1.85:1	Standard	H.O.
E200HCXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	H.O.
DE200XCAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	H.O., EST*
DE200HXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2	13:24 / .542 / 1.85:1	Standard	H.O., EST*
E225DPXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2	13:24 / .542 / 1.85:1	Standard	
E225DCXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	
E225HSLAA_	3.3 L, 200.1 cu. in.	20 in.	White	M2	13:24 / .542 / 1.85:1	H.O.	H.O.
E225DHLAA_	3.3 L, 200.1 cu. in.	20 in.	Blue	M2	13:24 / .542 / 1.85:1	H.O.	H.O.
E225DHXAA_	3.3 L, 200.1 cu. in.	25 in.	Blue	M2	13:24 / .542 / 1.85:1	H.O.	H.O.
DE225CXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	EST*
DE225PXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2	13:24 / .542 / 1.85:1	Standard	EST*
E250DPXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2	13:24 / .542 / 1.85:1	Standard	
DE250PXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2	13:24 / .542 / 1.85:1	Standard	EST*
E250DCXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	
DE250CXAA_	3.3 L, 200.1 cu. in.	25 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	EST*
E250DPZAA_	3.3 L, 200.1 cu. in.	30 in.	White	M2	13:24 / .542 / 1.85:1	Standard	
DE250PZAA_	3.3 L, 200.1 cu. in.	30 in.	White	M2	13:24 / .542 / 1.85:1	Standard	EST*
E250DCZAA_	3.3 L, 200.1 cu. in.	30 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	
DE250CZAA_	3.3 L, 200.1 cu. in.	30 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	EST*
E250HSLAA_	3.4 L, 210 cu. in.	20 in.	White	M2	13:24 / .542 / 1.85:1	H.O.	H.O.
E250DHLAA_	3.4 L, 210 cu. in.	20 in.	Blue	M2	13:24 / .542 / 1.85:1	H.O.	H.O.
E250DHXAA_	3.4 L, 210 cu. in.	25 in.	Blue	M2	13:24 / .542 / 1.85:1	H.O.	H.O.
E250HGLAA_	3.4 L, 210 cu. in.	20 in.	Graphite	M2	13:24 / .542 / 1.85:1	H.O.	H.O.
E250HGXAA_	3.4 L, 210 cu. in.	25 in.	Graphite	M2	13:24 / .542 / 1.85:1	H.O.	H.O.
DE300PXAA_	3.4 L, 210 cu. in.	25 in.	White	M2	13:24 / .542 / 1.85:1	Standard	EST*
DE300CXAA_	3.4 L, 210 cu. in.	25 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	EST*
DE300PZAA_	3.4 L, 210 cu. in.	30 in.	White	M2	13:24 / .542 / 1.85:1	Standard	EST*
DE300CZAA_	3.4 L, 210 cu. in.	30 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	EST*
E300DSLAA_	3.4 L, 210 cu. in.	20 in.	White	M2	13:24 / .542 / 1.85:1	Standard	
E300DPXAA_	3.4 L, 210 cu. in.	25 in.	White	M2	13:24 / .542 / 1.85:1	Standard	
E300DCXAA_	3.4 L, 210 cu. in.	25 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	
E300DPZAA_	3.4 L, 210 cu. in.	30 in.	White	M2	13:24 / .542 / 1.85:1	Standard	
E300DCZAA_	3.4 L, 210 cu. in.	30 in.	White	M2 ^T	13:24 / .542 / 1.85:1	Standard	

† Counter Rotation *Electronic Shift & Throttle

REFERENCE INFORMATION
SERVICE SPECIFICATIONS

SERVICE SPECIFICATIONS

		200, 225, 250 (3.3 L) Models		
HP		200	225	250
ENGINE	Full Throttle Operating Range	4500–5800 RPM ¹ 5250–6000 RPM ²		
	Power	200 HP (147.1 kw) @ 5150 RPM ¹ @ 5700 RPM ²	225 HP (165.5 kw) @ 5150 RPM ¹ @ 5700 RPM ²	250 HP (183.9 kw) @ 5150 RPM ¹ @ 5700 RPM ²
	Idle RPM in Gear	500 ± 50		
	Weight (may vary depending on model)	20 in. (L) Models: 503 lbs. (228 kg) 25 in. (X) Models: 524 lbs. (238 kg) 30 in. (Z) Models: 530 lbs. (240 kg)		
	Lubrication	<i>Evinrude/Johnson XD100 Oil</i> Refer to Recommended Lubricants on p. 166		
	Engine Type	90° V 6-Cylinder Loop-Charged		
	Displacement	200.1 cu. in. (3279 cm ³)		
	Bore	3.854 in (97.89 mm)		
	Stroke	2.858 in. (72.60 mm)		
	Standard Bore	3.8535 to 3.8545 in. (97.87 to 97.90 mm) To bore oversize, add piston oversize dimension to standard bore		
	Top Crankshaft Journal	1.6199 to 1.6204 in. (41.15 to 41.16 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	1.4995 to 1.5000 in. (38.09 to 38.106 mm)		
	Piston Ring End Gap, Both	0.022 to 0.028 in. (0.57 to 0.72 mm)		
	Fuel/Oil Ratio	<i>EMM</i> Controlled		
	Starting Enrichment	<i>EMM</i> Controlled		
	Preferred Fuel	Regular unleaded gasoline		
	Acceptable Fuel	See Fuel Requirements on p. 136 for additional information.		
FUEL	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 psi (21 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. 136 for additional information.		

¹ A or B suffix models

² C suffix models

REFERENCE INFORMATION
SERVICE SPECIFICATIONS

	HP	200	225	250
ELECTRICAL	Minimum Battery Requirements	675 CCA (845 MCA); or 750 CCA (940 MCA) below 32°F (0°C) (Use a 107 amp-hr battery for extreme applications.)		
	Alternator	Dual Voltage 50 Amp with Voltage Regulator and Battery Isolation. Refer to Predelivery and Installation Guide for multiple battery applications.		
	Tachometer Setting	6 pulse (12 pole)		
	Charging Isolator	Integral, Terminal on Engine Harness		
	Engine Fuse	P/N 967545 – 10 A		
COOLING	Thermostat	143°F (62°C)		
	Maximum Temperature	190°F (88°C)		
	Water pressure	15 to 17 psi @ 5000 RPM		
IGNITION	Type	Capacitor Discharge		
	Firing Order	1-2-3-4-5-6		
	Ignition Features	EMM Controlled		
	RPM Limit	6050		
	Crankshaft Position Sensor Air Gap	Fixed		
	Spark Plug	Refer to Emission Control Information Label Champion [†] QC8WEP @ 0.028 ± 0.003 in. (0.71 mm)		
GEARCASE	Gear Ratio	“M2” Type Gearcase: 13:24 (.542) (1.85:1) “L2” Type Gearcase – 200 HP: 14:26 (.538) (1.86:1) Refer to GEARCASE TYPES on p. 286		
	Lubricant	HPF XR Gearcase Lubricant		
	Capacity	“M2” Type Gearcase: 38.9 fl. oz. (1150 ml) “M2” Type – Counter Rotation: 35.8 fl. oz. (1060 ml) “L2” Type Gearcase: 32.5 fl. oz. (960 ml) Refer to GEARCASE TYPES on p. 286		
	Shift Rod Height	20 in. (L) Models: 21 29/32 (556.25 mm) ± one-half turn 25 in. (X) Models: 26 29/32 (683.25 mm) ± one-half turn 30 in. (Z) Models: 31 29/32 (810.25 mm) ± one-half turn		
	Shift Cable Stroke	1.125 to 1.330 in. (28.6 to 33.8 mm) measured between NEUTRAL and FORWARD		
POWER TRIM/TILT	Lubrication	Power Trim/Tilt & Power Steering Fluid or GM Dexron [†] II Automatic Transmission Fluid		
	Fluid Capacity	21 fl. oz. (622 ml)		
	Trim Range	0° to 21°		
	Tilt Range	22° to 75°		
	Tilt UP Stall Pressure	1500 psi (10342 kPa)		
	Tilt IN Stall Pressure	800 psi (5516 kPa)		

REFERENCE INFORMATION
SERVICE SPECIFICATIONS

250, 300 (3.4 L) Models		
HP	250 H	300
Full Throttle Operating Range	4500–6000 RPM ¹ 5300–6000 RPM ²	
Power	250 HP (183.9 kw) @ 5250 RPM ¹ @ 5600 RPM ²	300 HP (220.6 kw) @ 5250 RPM ¹ @ 5600 RPM ²
Idle RPM in Gear	500 ± 50	
Weight (may vary depending on model)	20 in. (L) Models: 507 lbs. (230 kg) 25 in. (X) Models: 528 lbs. (239 kg) 30 in. (Z) Models: 534 lbs. (242 kg)	
Lubrication	<i>Evinrude/Johnson XD100 Oil</i> Refer to Recommended Lubricants on p. 166	
Engine Type	90° V 6-Cylinder Loop-Charged	
Displacement	210.0 cu. in. (3441 cc)	
Bore	3.854 in (97.89 mm)	
Stroke	3.000 in. (76.20 mm)	
Standard Bore	3.8535 to 3.8545 in. (97.87 to 97.90 mm) To bore oversize, add piston oversize dimension to standard bore	
Top Crankshaft Journal	1.6199 to 1.6204 in. (41.15 to 41.16 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	1.4995 to 1.5000 in. (38.09 to 38.106 mm)	
Piston Ring End Gap, Both	0.022 to 0.028 in. (0.57 to 0.72 mm)	
Fuel/Oil Ratio	<i>EMM</i> Controlled	
Starting Enrichment	<i>EMM</i> Controlled	
Preferred Fuel	Regular unleaded gasoline	
Acceptable Fuel	See Fuel Requirements on p. 136 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 psi (21 kPa)	
Maximum Fuel Inlet Vacuum	4 in. Hg. (13.5 kPa)	
Minimum Octane	87 AKI (R+M)/2 or 90 RON	
Additives	2+4 [®] <i>Fuel Conditioner, Fuel System Cleaner</i> Use of other additives may result in engine damage. See Fuel Requirements on p. 136 for additional information.	

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REFERENCE INFORMATION
SERVICE SPECIFICATIONS

1

	HP	250 H	300
ELECTRICAL	Minimum Battery Requirements	675 CCA (845 MCA); or 750 CCA (940 MCA) below 32°F (0°C) (Use a 107 amp-hr battery for extreme applications.)	
	Alternator	Dual Voltage 50 Amp with Voltage Regulator and Battery Isolation. Refer to Predelivery and Installation Guide for multiple battery applications.	
	Tachometer Setting	6 pulse (12 pole)	
	Charging Isolator	Integral, Terminal on Engine Harness	
	Engine Fuses	P/N 967545 – 10 A	
COOLING	Thermostat	143°F (62°C)	
	Maximum Temperature	190°F (88°C)	
	Water pressure	18 to 25 psi @ 5000 RPM	
IGNITION	Type	Capacitor Discharge	
	Firing Order	1-2-3-4-5-6	
	Ignition Features	EMM Controlled	
	RPM Limit	6050	
	Crankshaft Position Sensor Air Gap	Fixed	
	Spark Plug	Refer to Emission Control Information Label Champion [†] QC8WEP @ 0.028 ± 0.003 in. (0.71 mm)	
GEARCASE	Gear Ratio	“M2” Type Gearcase: 13:24 (.542) (1.85:1) Refer to GEARCASE TYPES on p. 286	
	Lubricant	HPF XR Gearcase Lubricant	
	Capacity	“M2” Type Gearcase: 38.9 fl. oz. (1150 ml) “M2” Type – Counter Rotation: 35.8 fl. oz. (1060 ml) Refer to GEARCASE TYPES on p. 286	
	Shift Rod Height	20 in. (L) Models: 21 29/32 (556.25 mm) ± one-half turn 25 in. (X) Models: 26 29/32 (683.25 mm) ± one-half turn 30 in. (Z) Models: 31 29/32 (810.25 mm) ± one-half turn	
	Shift Cable Stroke	1.125 to 1.330 in. (28.6 to 33.8 mm) measured between NEUTRAL and FORWARD	
POWER TRIM/TILT	Lubrication	Power Trim/Tilt & Power Steering Fluid or GM Dexron [†] II Automatic Transmission Fluid	
	Fluid Capacity	21 fl. oz. (622 ml)	
	Trim Range	0° to 21°	
	Tilt Range	22° to 75°	
	Tilt UP Stall Pressure	1500 psi (10342 kPa)	
	Tilt IN Stall Pressure	800 psi (5516 kPa)	