

Models Covered

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

- 52.7 cubic inch (.86 L), 2-Cylinder starting with serial number 5409508.
- 79 cubic inch (1.29 L), 3-Cylinder starting with serial number 5409506.

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HP	Model Number	Shaft Length	Engine	Gearcase		Steering	Starting	Midsection
				Type	Gear Ratio			
40	E40DRLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Rope	Manual
	E40DRGLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Rope	Manual
	E40DRMLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Rope	Manual
	E40DPLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E40DPGLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E40DSLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E40DTLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Electric	Power Tilt
	E40DGTLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Electric	Power Tilt
	E40DHLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E40DHGLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E40DHSLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
E40DPJLAG_	25	I2	Jet	N/A	Remote	Electric	Power Tilt	
50	E50DPLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E50DPGLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E50DSLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E50DTLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Electric	Power Tilt
	E50DGTLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Electric	Power Tilt
60	E60DPLAGA	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E60DPGLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E60DSLAG_	20	I2	F	11:32, 0.34, 2.90:1	Remote	Electric	Power Tilt
	E60DTLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Electric	Power Tilt
	E60DGTLAG_	20	I2	F	11:32, 0.34, 2.90:1	Tiller	Electric	Power Tilt
60 H.O.	E60HGLAF_	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E60HGXF_	25	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E60DPJLAF_	25	I3	Jet	N/A	Remote	Electric	Power Trim/Tilt
65	E65SLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E65GLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E65SNLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E65GNLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
75	E75DPLAF_	20	I3	S	13:26, 0.50, 2.0:1	Remote	Electric	Power Trim/Tilt
	E75DPGLAF_	20	I3	S	13:26, 0.50, 2.0:1	Remote	Electric	Power Trim/Tilt
	E75DSLAF_	20	I3	S	13:26, 0.50, 2.0:1	Remote	Electric	Power Trim/Tilt
90	E90DPLAF_	20	I3	S	13:26, 0.50, 2.0:1	Remote	Electric	Power Trim/Tilt
	E90DPGLAF_	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E90DPXF_	25	I3	O	12:27, 0.444, 2.25:1	Remote	Electric	Power Trim/Tilt
	E90DGXF_	25	I3	O	12:27, 0.444, 2.25:1	Remote	Electric	Power Trim/Tilt
	E90DSLAF_	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E90SLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E90SLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E90GLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E90SNLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt
	E90GNLAF_1	20	I3	S2	11:26, 0.42, 2.36:1	Remote	Electric	Power Trim/Tilt

1. Pontoon Series

Reference Information

Service Specifications, 40 – 60 HP

Service Specifications, 40 – 60 HP

HP	40	40 H.O.	50	60
Engine				
Full Throttle Operating Range	5000-6000 RPM	5000-6000 RPM	5500-6000 RPM	5500-6000 RPM
Power	40 HP (29.4 kw) @ 5500 RPM	40 HP (29.4 kw) @ 5500 RPM	50 HP (36.8 kw) @ 5750 RPM	60 HP (44.1 kw) @ 5750 RPM
Idle RPM in NEUTRAL	750 ± 50 EMM Controlled			
Idle RPM in Gear	800 ± 50 EMM Controlled			
Weight (may vary depending on model)	(RL) Models: 232 lbs. (105 kg) (HL, PL, SL, TL) Models: 240 lbs. (109 kg)			
Engine Type	In-line, 2 Cylinder, Two-Cycle			
Displacement	52.7 cu. in. (864 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 Journal	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 System				
Fuel/Oil Control	EMM Controlled			
Starting Enrichment	EMM Controlled			
Preferred Fuel	Regular unleaded gasoline			
Acceptable Fuel	Use unleaded regular gasoline. The use of unleaded gasoline containing alcohol above the percentage specified by government regulations is not recommended. Do NOT use Fuel labeled "E85." Use of fuel labeled E15 is prohibited by U.S. EPA Regulations.			
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.			
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.			

Reference Information

Service Specifications, 60 H.O. – 90 HP

Service Specifications, 60 H.O. – 90 HP

	HP	60 H.O.	65	75	90
Engine					
Full Throttle Operating Range		5000-5500 RPM	4500-5500 RPM	4500-5500 RPM	4500-5500 RPM
Power		60 HP (44.1 kw) @ 5000 RPM	65 HP (47.8 kw) @ 5000 RPM	75 HP (56 kw) @ 5000 RPM	90 HP (67.1 kw) @ 5000 RPM
Idle RPM in NEUTRAL		600 ± 50 EMM Controlled			
Idle RPM in Gear		700 ± 50 EMM Controlled			
Weight (may vary depending on model)		(L) Models: 320 lbs. (145 kg) (X) Models: 335 lbs. (152 kg)			
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 Journal		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 System					
Fuel/Oil Control		EMM Controlled			
Starting Enrichment		EMM Controlled			
Preferred Fuel		Regular unleaded gasoline			
Acceptable Fuel		Unleaded regular gasoline. The use of unleaded gasoline containing alcohol above the percentage specified by government regulations is not recommended. Do NOT use Fuel labeled "E85." Use of fuel labeled E15 is prohibited by U.S. EPA Regulations.			
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.			
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.			