

# SPECIFICATIONS

	85 HP	100 HP	115 HP	140 HP
<b>POWERHEAD</b>				
Engine type	90° V type, 4 cylinder, 2 stroke cycle	90° V type, 4 cylinder, 2 stroke cycle	90° V type, 4 cylinder, 2 stroke cycle	90° V type, 4 cylinder, 2 stroke cycle
Model number				
20" (508 mm) transom manual tilt	E85MLCS	E100MLCS	E115MLCS	E140MLCS
20" (508 mm) transom power trim and tilt	E85TLCS	E100TLC	E115TLC	E140TRLCS
25" (635 mm) transom power trim and tilt	E85TXCS	E100TXCS	E115TXCS	E140TRXCS
Bore and stroke	3.500 (88.90 mm) bore x 2.588 (65.74 mm) stroke	3.500 (88.90 mm) bore x 2.588 (65.74 mm) stroke	3.500 (88.90 mm) bore x 2.588 (65.74 mm) stroke	3.500 (88.90 mm) bore x 2.588 (65.74 mm) stroke
Piston displacement	99.6 cubic inches (1632 cm <sup>3</sup> )	99.6 cubic inches (1632 cm <sup>3</sup> )	99.6 cubic inches (1632 cm <sup>3</sup> )	99.6 cubic inches (1632 cm <sup>3</sup> )
Horsepower (BIA certified)	85 hp (60.1 kw) at 5000 rpm	100 hp (70.7 kw) at 5000 rpm	115 hp (81.3 kw) at 5000 rpm	140 hp (99.0 kw) at 5000 rpm
Full throttle operating range	4500 to 5500 rpm	4500 to 5500 rpm	4500 to 5500 rpm	4500 to 5500 rpm
Idle speed in gear (max)	650 rpm	650 rpm	650 rpm	650 rpm
Test wheel part no.	382861	382861	384933	386246
Test wheel rpm	4800 rpm	4800 rpm	4800 rpm	4900 rpm
Piston less rings	Standard 0.020" oversize 0.030" oversize	Standard 0.020" oversize 0.030" oversize	Standard 0.020" oversize 0.030" oversize	Standard 0.020" oversize 0.030" oversize
Piston ring set part no.				
Standard	385661	385661	385661	385661
0.020" oversize	385662	385662	385662	385662
0.030" oversize	385663	385663	385663	385663
Width of ring (upper)	0.0895" - 0.0900" (2.273 - 2.286 mm)	0.0895" - 0.0900" (2.273 - 2.286 mm)	0.0895" - 0.0900" (2.273 - 2.286 mm)	0.0895" - 0.0900" (2.273 - 2.286 mm)
Width of ring (lower)	0.0615" - 0.0625" (1.562 - 1.588 mm)	0.0615" - 0.0625" (1.562 - 1.588 mm)	0.0615" - 0.0625" (1.562 - 1.588 mm)	0.0615" - 0.0625" (1.562 - 1.588 mm)
Crankshaft size				
Top journal	1.6204" - 1.6199" (41.158 - 41.145 mm)	1.6204" - 1.6199" (41.158 - 41.145 mm)	1.6204" - 1.6199" (41.159 - 41.145 mm)	1.6204" - 1.6199" (41.158 - 41.145 mm)
Center journal	2.1875" - 2.1870" (55.563 - 55.550 mm)	2.1875" - 2.1870" (55.563 - 55.550 mm)	2.1875" - 2.1870" (55.563 - 55.550 mm)	2.1875" - 2.1870" (55.563 - 55.550 mm)
Bottom journal	1.3784" - 1.3779" (35.011 - 34.999 mm)	1.3784" - 1.3779" (35.011 - 34.999 mm)	1.3784" - 1.3779" (35.011 - 34.999 mm)	1.3784" - 1.3779" (35.011 - 34.999 mm)
Connecting rod crank pin	1.3762" - 1.3757" (34.955 - 34.943 mm)	1.3762" - 1.3757" (34.955 - 34.943 mm)	1.3762" - 1.3757" (34.955 - 34.943 mm)	1.3762" - 1.3757" (34.955 - 34.943 mm)
<b>FUEL SYSTEM</b>				
Carburetion	2 carburetors - float feed with fixed high, intermediate and low speed jets	2 carburetors - float feed with fixed high, inter- mediate and low speed jets	2 carburetors - float feed with fixed high, inter- mediate and low speed jets	2 carburetors - float feed with fixed high, inter- mediate and low speed jets
Float level setting	Between notches on gauge 324891	Between notches on gauge 324891	Between notches on gauge 324891	Between notches on gauge 324891
Carburetor high speed				
orifice plug	1" dia bore - Part number 322221 Hole size 0.049" (1.24 mm)	Part number 317646 Hole size 0.054" (1.37 mm)	Part number 321449 Hole size 0.060" (1.52 mm)	Part number 317183 Hole size 0.067" (1.70 mm)
	1-3/8" dia bore - Part number 321731 Hole size 0.058" (1.47 mm)			
Carburetor intermediate speed				
orifice plug	Part number 326188 Hole size 0.028" (0.71 mm)	Part number 322936 Hole size 0.028" (0.71 mm)	Part number 323003 Hole size 0.025" (0.64 mm)	Part number 322776 Hole size 0.029" (0.74 mm)
Idle air bleed				
orifice plug	1" dia bore - Part number 320016 Hole size 0.032" (0.81 mm)	Part number 324025 Hole size 0.034" (0.86 mm)	Part number 317473 Hole size 0.030" (0.76 mm)	Part number 317474 Hole size 0.027" (0.69 mm)
	1-3/8" dia bore - Part number 391347 Hole size 0.033" (0.84 mm)			
Inlet needle set	0.065" - 0.062" (1.65 - 1.57 mm) Use a number 52 drill as gage	0.065" - 0.062" (1.65 - 1.57 mm) Use a number 52 drill as gage	0.065" - 0.062" (1.65 - 1.57 mm) Use a number 52 drill as gage	0.065" - 0.062" (1.65 - 1.57 mm) Use a number 52 drill as gage
Fuel tank capacity	6 gallons (22.7 litres)	6 gallons (22.7 litres)	6 gallons (22.7 litres)	6 gallons (22.7 litres)

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LOWER UNIT	85 HP	100 HP	115 HP	140 HP
Gearcase lubricant capacity	26.6 oz (786 mL)	26.6 oz (786 mL)	26.6 oz (786 mL)	26.6 oz (786 mL)
Propeller gear ratio	13:26	13:26	13:26	13:26
Propeller supplied with motor	Aluminum, 3 blade 13-1/4" dia. x 17" pitch	Aluminum, 3 blade 13-1/4" dia. x 17" pitch	Aluminum, 3 blade 13" dia. x 19" pitch	PT & T model - SST 3 blade, 12-3/4" dia. x 21" pitch Manual model - Aluminum 3 blade, 13" dia. x 19" pitch
Alternate propellers	3 blade aluminum, 14" dia. x 11" pitch 3 blade aluminum, 14" dia. x 13" pitch 3 blade aluminum, 13-3/4" dia. x 15" pitch 3 blade aluminum, 13" dia. x 19" pitch 3 blade aluminum, 12-3/4" dia. x 21" pitch 3 blade aluminum, 12-3/4" dia. x 23" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 23" pitch capped 3 blade stainless steel, 13-3/4" dia. x 15" pitch 3 blade stainless steel, 13-1/4" dia. x 17" pitch 3 blade stainless steel, 13" dia. x 19" pitch 3 blade stainless steel, 12-3/4" dia. x 21" pitch 3 blade stainless steel, 12-3/4" dia. x 23" pitch 3 blade stainless steel, 13-1/2" dia. x 23" pitch silver streak	3 blade aluminum, 14" dia. x 11" pitch 3 blade aluminum, 14" dia. x 13" pitch 3 blade aluminum, 13-3/4" dia. x 15" pitch 3 blade aluminum, 13" dia. x 19" pitch 3 blade aluminum, 12-3/4" dia. x 21" pitch 3 blade aluminum, 12-3/4" dia. x 23" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 23" pitch capped 3 blade stainless steel, 13-3/4" dia. x 15" pitch 3 blade stainless steel, 13-1/4" dia. x 17" pitch 3 blade stainless steel, 13" dia. x 19" pitch 3 blade stainless steel, 12-3/4" dia. x 21" pitch 3 blade stainless steel, 12-3/4" dia. x 23" pitch 3 blade stainless steel, 13-1/2" dia. x 23" pitch silver streak	3 blade aluminum, 14" dia. x 11" pitch 3 blade aluminum, 14" dia. x 13" pitch 3 blade aluminum, 13-3/4" dia. x 15" pitch 3 blade aluminum, 13" dia. x 19" pitch 3 blade aluminum, 12-3/4" dia. x 21" pitch 3 blade aluminum, 12-3/4" dia. x 23" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 23" pitch capped 3 blade stainless steel, 13-3/4" dia. x 15" pitch 3 blade stainless steel, 13-1/4" dia. x 17" pitch 3 blade stainless steel, 13" dia. x 19" pitch 3 blade stainless steel, 12-3/4" dia. x 21" pitch 3 blade stainless steel, 12-3/4" dia. x 23" pitch 3 blade stainless steel, 13-1/2" dia. x 23" pitch silver streak	3 blade aluminum, 14" dia. x 11" pitch 3 blade aluminum, 14" dia. x 13" pitch 3 blade aluminum, 13-3/4" dia. x 15" pitch 3 blade aluminum, 13" dia. x 19" pitch 3 blade aluminum, 12-3/4" dia. x 21" pitch 3 blade aluminum, 12-3/4" dia. x 23" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 21" pitch 2 blade bronze, 13-3/4" dia. x 23" pitch capped 3 blade stainless steel, 13-3/4" dia. x 15" pitch 3 blade stainless steel, 13-1/4" dia. x 17" pitch 3 blade stainless steel, 13" dia. x 19" pitch 3 blade stainless steel, 12-3/4" dia. x 21" pitch 3 blade stainless steel, 12-3/4" dia. x 23" pitch 3 blade stainless steel, 13-1/2" dia. x 23" pitch silver streak

## ELECTRICAL SYSTEM

Generator System	Regulated flywheel alternator	Regulated flywheel alternator	Regulated flywheel alternator	Regulated flywheel alternator
Starter	Electric and emergency rope	Electric and emergency rope	Electric and emergency rope	Electric and emergency rope
Starter amp draw when cranking				
Prestolite	200 amps max.	200 amps max.	200 amps max.	200 amps max.
Bosch	160 amps max.	160 amps max.	160 amps max.	160 amps max.
Starter rpm	250 rpm for ignition	250 rpm for ignition	250 rpm for ignition	250 rpm for ignition
Fuse-engine (20 amp)	Littlefuse 1A.G. or Buss A. G. A.	Littlefuse 1A.G. or Buss A. G. A.	Littlefuse 1A.G. or Buss A. G. A.	Littlefuse 1A.G. or Buss A. G. A.
Fuse-trim & tilt (30 amp)	Littlefuse 1A.G.-30 or Buss A. G. A.-30	Littlefuse 1A.G.-30 or Buss A. G. A.-30	Littlefuse 1A.G.-30 or Buss A. G. A.-30	Littlefuse 1A.G.-30 or Buss A. G. A.-30

## MISCELLANEOUS

Weight without fuel tank (manual tilt) - 20'	288 lb. (130.0 kg)	288 lb. (130.0 kg)	288 lb. (130.0 kg)	293 lb. (133.0 kg)
Power trim and tilt - 20'	301 lb. (136.0 kg)	301 lb. (136.0 kg)	301 lb. (136.0 kg)	310 lb. (140.0 kg)
Power trim and tilt - 25'	306 lb. (139.0 kg)	306 lb. (139.0 kg)	306 lb. (139.0 kg)	315 lb. (143.0 kg)
Fuel tank weight empty	11 lb. (5.0 kg)	11 lb. (5.0 kg)	11 lb. (5.0 kg)	11 lb. (5.0 kg)

## IGNITION SYSTEM

Ignition	Breakerless magneto C.D.	Breakerless magneto C.D.	Breakerless magneto C.D.	Breakerless magneto C.D.
Ignition timing	28° @ 4300-4600 rpm	28° @ 4300-4600 rpm	28° @ 4300-4600 rpm	28° @ 4300-4600 rpm
Spark plug	Champion L77J4 or AC-M40 FFX 0.040" (1.0 mm) gap	Champion L77J4 or AC-M40 FFX 0.040" (1.0 mm) gap	Champion L77J4 or AC-M40 FFX 0.040" (1.0 mm) gap	UL-77V gap is permanent
Spark plug torque	17-1/2" - 20-1/2" foot- pounds (24 - 27 N-m)	17-1/2" - 20-1/2" foot- pounds (24 - 27 N-m)	17-1/2" - 20-1/2" foot- pounds (24 - 27 N-m)	17-1/2" - 20-1/2" foot- pounds (24 - 27 N-m)