

SPECIFICATIONS

	90 Model	115 Model	140 Model
POWERHEAD			
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
Model number			
20" (508 mm) transom manual tilt	E90MLCIH J90MLCIH E90MLCIM J90MLCIM		
20" (508 mm) transom power trim and tilt	E90TLCIH J90TLCIH E90TLCIM J90TLCIM	E115TLCIH J115TLCIH E115TLCIM J115TLCIM	E140TRLCIH J140TLCIH E140TRLCIM J140TLCIM
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
Piston displacement	99.6 cubic inches (1632 cm ³)	99.6 cubic inches (1632 cm ³)	99.6 cubic inches (1632 cm ³)
*Horsepower (BIA certified)	90 hp (636 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
Idle speed in gear (max)	650 rpm	650 rpm	650 rpm
Test wheel part no.	382861	384933	386246
Test wheel 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
Piston ring set part no.			
Standard	385661	385661	385661
0.020" oversize	385662	385662	385662
0.030" oversize	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)
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)
Crankshaft size			
Top journal	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)
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)
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)
FUEL SYSTEM			
Carburetion	2 carburetors - float feed with fixed high, intermediate and low speed jets	2 carburetors - float feed with fixed high, intermediate and low speed jets	2 carburetors - float feed with fixed high, intermediate and low speed jets
Float level setting	Between notches on gauge 324891	Between notches on gauge 324891	Between notches on gauge 324891
Float drop	1" ± 1/8" (25 ± 3 mm) from carb body casting	1" ± 1/8" (25 ± 3 mm) from carb body casting	1" ± 1/8" (25 ± 3 mm) from carb body casting
+Carburetor high speed orifice plug	Part number 321559 Hole size 0.063" (1.60 mm)	Part number 321449 Hole size 0.060" (1.52 mm)	Part number 317183 Hole size 0.067" (1.70 mm)
+Carburetor intermediate speed orifice plug	Part number 322776 Hole size 0.029" (0.74 mm)	Part number 322936 Hole size 0.028" (0.71 mm)	Part Number 322776 Hole size 0.029" (0.74 mm)
+Idle air bleed orifice plug	Part number 318832 Hole size 0.035 (0.89 mm)	Part number 320015 Hole size 0.033" (0.83 mm)	Part number 320016 Hole size 0.032" (0.81 mm)
Inlet needle seat	0.073" (1.85 mm) Use a number 48 drill as gage	0.073" (1.85 mm) Use a number 48 drill as gage	0.073" (1.85 mm) Use a number 48 drill as gage
Fuel tank capacity	6 gallons (22.7 litres)	6 gallons (22.7 litres)	6 gallons (22.7 litres)

*Horsepower established at sea level. Allow 2% reduction per 1000' (300 m) above sea level.
 +Orifice part numbers and size are subject to change due to atmospheric conditions, manufacturing changes, and other conditions beyond our control. Check with current part catalogs or Service Bulletins before making any jet changes.