

Engine Specifications – 9.9/15 (305cc)

Operation

Full Throttle Operating Range	9.9 Rope – 5000 to 6000 RPM 9.9 Electric – 4000 to 5000 RPM 15 – 5000 to 6000 RPM
Power	9.9 – 9.9 HP (7,4 kw) 15 – 15 HP (11,2 kw)
Power Rated @	9.9 Rope – 5500 RPM 9.9 Electric – 4500 RPM 15 – 5500 RPM
Idle RPM in Gear	850 ± 50
Test Propeller	OMC P/N 340177
Minimum Test RPM	9.9 Rope – 4000 9.9 Electric – 3500 15 – 5000
Weight	10FRE; 15FRE – 99 lbs. (45 kg) 10FRL; 15FRL – 104 lbs. (47 kg) 10FEX; 15FKE – 119 lbs. (54 kg) 10FREL; 15FREL – 114 lbs. (52 kg)

Powerhead

Type	Four-Stroke, In-line 2-Cylinder, OHC
Displacement	18.61 cu. in. (305cc)
Bore	2.56 in. (65,03 mm)
Stroke	1.81 in. (45,97 mm)
Standard Bore*	2.5590 - 2.5600 in. (65,00 - 65,03 mm)
Crankshaft Dimensions:	
Top Journal	1.2990 - 1.2994 in. (32,99 - 33,01 mm)
Bottom Journal	1.2990 - 1.2994 in. (32,99 - 33,01 mm)
Rod Crankpin	1.1815 - 1.1801 in. (30,01 - 29,98 mm)
Camshaft Lobe Dimensions:	
Intake	0.963 ± 0.004 in. (24,46 ± 0,10 mm)
Exhaust	0.963 ± 0.004 in. (24,46 ± 0,10 mm)
Piston Ring End Gap (Top Two Rings)	0.006 - 0.020 in. (0,15 - 0,51 mm)
Piston Ring Groove Side Clearance (Top Two Rings)	0.004 in. (0,10 mm) maximum

Valve Tappet Clearance

Cold Engine	Intake – 0.004 in. (0,1 mm) Exhaust – 0.006 in. (0,15 mm)
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* To bore oversize, add piston oversize dimension to standard bore.

Engine Specifications – 8/9.9 (211cc)

Operation

Full Throttle Operating Range	8 – 4500 to 5500 RPM 9.9 – 5000 to 6000 RPM
Power	8 – 8 HP (6,0 kw) 9.9 – 9.9 HP (7,4 kw)
Power Rated @	8 – 5000 RPM 9.9 – 5500 RPM
Idle RPM in Gear	900 ± 50
Test Propeller	OMC P/N 386537
Minimum Test RPM	4700
Weight	8FRE, FRBE; 10FOE, FWE – 82 lbs. (37 kg) 8FRL, FRBL; 10FOL, FWL – 87 lbs. (39 kg) 8FRX, FRBX – 92 lbs. (42 kg) 10FTE, FA – 93 lbs. (42,4 kg) 10FTL, FAL – 96 lbs. (43,4 kg) 10FEL, FCL – 101 lbs. (46 kg)

Powerhead

Type	Four-Stroke, In-line 2-Cylinder, OHC
Displacement	12.87 cu. in. (211cc)
Bore	2.22 in. (56,6 mm)
Stroke	1.65 in. (42,0 mm)
Standard Bore*	2.2244 - 2.2248 in. (56,50 - 56,51 mm)
Crankshaft Dimensions:	
Top Journal	1.2200 - 1.2204 in. (30,99 - 31,00 mm)
Bottom Journal	1.2200 - 1.2204 in. (30,99 - 31,00 mm)
Rod Crankpin	1.1401 - 1.1398 in. (28,96 - 28,95 mm)
Camshaft Lobe Dimensions:	
Intake	0.954 ± 0.002 in. (24,22 ± 0,05 mm)
Exhaust	0.955 ± 0.002 in. (24,26 ± 0,05 mm)
Piston Ring End Gap (Top Two Rings)	0.006 - 0.014 in. (0,15 - 0,36 mm)
Piston Ring Groove Side Clearance (Top Two Rings)	0.004 in. (0,10 mm) maximum

Valve Tappet Clearance

Cold Engine	Intake – 0.003 in. (0,08 mm) Exhaust – 0.005 in. (0,12 mm)
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* To bore oversize, add piston oversize dimension to standard bore.

Engine Specifications – 5/6

Operation

Full Throttle Operating Range	5 – 4500 to 5500 RPM 6 – 5000 to 6000 RPM
Power	5 – 5 HP (3,7 kw) 6 – 6 HP (4,5 kw)
Power Rated @	5 – 5000 RPM 6 – 5500 RPM
Idle RPM in Gear	900 ± 50
Test Propeller	OMC P/N 390239
Minimum Test RPM	4700
Weight	5FRE; 6FRE, FRBE – 68 lbs. (31 kg) 5FRL; 6FRL, FRBL – 71.5 lbs. (33 kg)

Powerhead

Type	Four-Stroke, In-line 1-Cylinder, OHC
Displacement	7.8 cu. in. (128cc)
Bore	2.22 in. (56,6 mm)
Stroke	2.01 in. (51,0 mm)
Standard Bore*	2.2244 - 2.2248 in. (56,50 - 56,51 mm)
Crankshaft Dimensions:	
Top Journal	1.2200 - 1.2204 in. (30,99 - 31,00 mm)
Bottom Journal	1.2200 - 1.2204 in. (30,99 - 31,00 mm)
Rod Crankpin	1.1401 - 1.1398 in. (28,96 - 28,95 mm)
Camshaft Lobe Dimensions:	
Intake	0.954 ± 0.002 in. (24,222 ± 0,05 mm)
Exhaust	0.955 ± 0.002 in. (24,262 ± 0,05 mm)
Piston Ring End Gap (Top Two Rings)	0.006 - 0.014 in. (0,15 - 0,36 mm)
Piston Ring Groove Side Clearance (Top Two Rings)	0.004 in. (0,10 mm) maximum

Valve Tappet Clearance

Cold Engine	Intake – 0.003 in. (0,08 mm) Exhaust – 0.005 in. (0,12 mm)
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* To bore oversize, add piston oversize dimension to standard bore.