



IMPORTANT INFORMATION

Section 1A - Specifications



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Master Specifications

Model 240 EFI Jet Drive		
HORSEPOWER (KW)	Model 240 Full Throttle RPM Idle RPM (In Gear) RPM Limiter	240 (178.9) 5500 - 6000 1000 - 1100 6700
JET DRIVE WEIGHT	Powerhead Pump Unit	231 (105.0 kg) 110 (49 kg)
CYLINDER BLOCK	Type Displacement	V-6 Cylinder, Two Cycle 153 cu. in. (2508 cc) 60° Vee
STROKE	Length (All Models)	2.65 in. (67.3 mm)
CYLINDER BORE	Diameter (Std) Diameter 0.015 in. Oversize Taper/Out of Round/Wear Maximum Bore Type	3.501 in. (88.925 mm) 3.516 in. (89.306 mm) 0.003 in. (0.076 mm) Cast Iron
CRANKSHAFT	Maximum Runout	0.006 in. (0.152 mm)
PISTON	Piston Type Diameter Standard Diameter 0.015 in. Oversize	Aluminum 3.494 in. ± .001 in. (88.748 mm ± 0.025 mm) 3.509 in. ± 0.001 in. (89.129 mm ± 0.025 mm)
PISTON DIAMETER	<p>Dimension "A" at Right Angle (90°) to Piston Pin</p>	<p>3.494 in. ± .001 in. (88.748 mm ± .025 mm)</p> <p>Using a micrometer, measure dimension "A" at location shown. Dimension "A" should be 3.494 in. ± .001 for a STANDARD size piston (new) Dimension "A" will be 0.001 – 0.0015 less if coating is worn off piston (used)</p>
REEDS	Reed Type Reed Stand Open (Max.)	Single Stage Plastic 5 Petal No Reed Stops



Model 240 EFI Jet Drive		
FUEL INJECTION	Idle RPM – All Models Wide Open Throttle (WOT) RPM Float Adjustment (Vapor Separator) Float Level Injectors – All Models (Quantity) – Injectors are Crank Angle Driven by ECM – #1 Cylinder – #2 Cylinder – #3 Cylinder – #4 Cylinder – #5 Cylinder – #6 Cylinder Line Pressure @ Injectors Injector Resistance Electric Fuel Pump Resistance Electric Fuel Pump Amperage Draw	1000 ± 1100 5500 – 6000 Preset @ Factory 6 RED + BRN Leads RED + WHT Leads RED + ORG Leads RED + YEL Leads RED + LT BLUE Leads RED + PUR Leads 41 psi – 45 psi (283 kPa – 310 kPa) 12.3 ohms ± 0.5 ohms 0.7 ± 0.3 ohms 4 amperes ± 0.5 amperes
FUEL SYSTEM	Fuel Recommended Gasoline Recommended Oil Gasoline/Oil Ratio – @ Idle – @ WOT	Gasoline w/Oil Injection Unleaded 87 Octane Minimum TC-W3 Premium Plus 2 Cycle Outboard Oil 125:1 40:1



Model 240 EFI Jet Drive		
STARTING SYSTEM	Electric Start – All Models Solenoid Driven Bendix Starter Draw (Under Load) Starter Draw (No Load) Minimum Brush Length Battery Rating	175 Amperes 60 Amperes 0.25 in. (65.4 mm) 670 (Minimum) Marine Cranking Amps 520 (Minimum) Cold Cranking Amps
IGNITION SYSTEM	Type Spark Plug Type Spark Plug Gap Maximum Timing Idle Timing Throttle Position Sensor @ Idle @ WOT Crank Position Sensor Air Gap Firing Order	Digital Inductive NGK BPZ8HS-10 0.040 in. (1.0 mm) Not Adjustable; Controlled by ECM Not Adjustable; Controlled by ECM 0.19 – 1.0 VDC 3.45 – 4.63 VDC 0.025 in. – 0.040 in. (0.635 mm – 1.01 mm) 1-2-3-4-5-6
CHARGING SYSTEM	Alternator Output (Regulated) Brush Length Voltage Output Regulator Current Draw	42 - 48 Amperes @ 2000 RPM @ Battery* 52 - 60 Amperes @ 2000 RPM @ Alternator Std Exposed Length: 0.413 in. (10.5 mm) Min. Exposed Length: 0.059 in. (1.5 mm) 13.5 to 15.1 Volts 0.15 mA (Ign. Switch Off) 30.0 mA (Ign. Switch On)

*Amperage listed is when battery is in a discharged state. If battery is fully charged, amperage readings will be less.



Torque Chart

PUMP UNIT

Special Items	Torque
Inlet Screen Screw (6 mm)	75 lb. in. (8.5 N·m)
Ride Plate Screw	75 lb. in. (8.5 N·m)
Reverse Gate Stop Screw	120 lb. in. (13.6 N·m)
Impeller Shaft Cover Screw	15 lb. ft. (20.3 N·m)
Steering Lever Screw	15 lb. ft. (20.3 N·m)
Pinion Shaft Housing Screw	15 lb. ft. (20.3 N·m)
Inlet Screen Screw (8 mm)	16.5 lb. ft. (22.4 N·m)
Drive Housing Cover Nuts	35 lb. ft. (47.5 N·m)
Nozzle to Stator Bolts	35 lb. ft. (47.5 N·m)
Stator Bolts	35 lb. ft. (47.5 N·m)
Rudder Pivot Bolt	50 lb. ft. (68 N·m)
Reverse Gate Pivot Bolt	80 lb. ft. (108.5 N·m)
Impeller Gear Nut	90 lb. ft. (122 N·m)
Impeller Nut	150 lb. ft. (203.4 N·m)

POWERHEAD

Special Items	Torque
Reed Block Screws	90 lb. in. (10.2 N·m)
Vapor Separator	140 lb. in. (15.8 N·m)
Air Handler Assembly	14.5 lb. ft. (19.7 N·m)
Crank Case Cover Bolts .312-18x1-1/4 (6 ea)	15 lb. ft. (20.3 N·m)
Crank Case Cover Bolts 3/8-16x3-1/4 (8 ea)	37 lb. ft. (50.2 N·m)
Expansion Chamber Nuts	20 lb. ft. (27.1 N·m)
Connecting Rod Screws	*20 lb. ft. (27.1 N·m) Then Turn Additional 90°
Spark Plug	20 lb. ft. (27.1 N·m)
Cylinder Head	*30 lb.ft. (40.6 N·m) Then Turn Additional 90°
Adaptor Plate to Powerhead	35 lb. ft. (47.5 N·m)
Powerhead to Drive Housing Nuts	35 lb. ft. (47.5 N·m)
Flywheel Nut	125 lb. ft. (169.5 N·m)

***NOTE:** Screws should not be reused after removal

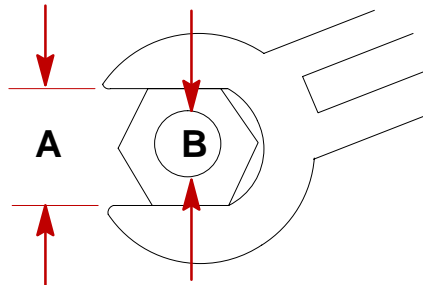


Standard Hardware

Screw or Nut Size	Torque
6 - 32	9 lb. in. (1.0 N·m)
8 - 32	20 lb. in. (2.3 N·m)
10 - 24	30 lb. in. (3.4 N·m)
10 - 32	35 lb. in. (3.9 N·m)
12 - 24	45 lb. in. (5.0 N·m)
1/4 - 20	70 lb. in. (7.8 N·m)
5/16 - 18	160 lb. in. (18.1 N·m)
3/8 - 16	270 lb. in. (30.4 N·m)

Metric Hardware

A	B	Torque Specification		
		lb. in.	lb. ft.	N·m
8 mm	M5	36	3	4
10 mm	M6	70	6	8
12 mm	M8	156	13	18
14 mm	M10	312	26	36
17 mm	M12	372	31	42





Mercury/Quicksilver Lubricants and Sealants

Description	Mercury Part Number	Quicksilver Part Number
Needle Bearing Assy. Lubricant [8 oz. (226.8 grams)] tube	92-802868A1	N/A
Dielectric Grease [8 oz. (226.8 grams)] can	92-823506-1	92-823506-1
Loctite 271 – Thread Locker (10 ml) tube	92-809819	92-809819
Loctite 567 PST Pipe Sealant (50 ml) tube	92-809822	92-809822
Loctite Master Gasket Kit	92-12564-2	92-12564-2
2 Cycle Premium Outboard Oil [1 Gallon (3.7 liter)]	92-802815A1	92-802815Q1
Perfect Seal [16 oz. (0.45 kg)] can	92-34227-1	92-34227-1
Liquid Neoprene [8 oz. (226.8 grams)] can	92-25711-3	92-25711-3
Cyanacrylate Adhesive	Obtain Locally	Obtain Locally
Bellows Adhesive	N/A	92-86166Q1
Loctite 680 Retaining Compound (10 ml) tube	92-809833	92-809833
Loctite 222 Thread Locker (10 ml) tube	92-809818	92-809818
3M Permabond #3M08155	Obtain Locally	Obtain Locally
Loctite 242 Thread Locker (10 ml) tube	92-809821	92-809821
Loctite 609	Obtain Locally	Obtain Locally
Loctite 405	Obtain Locally	Obtain Locally

**SPECIFICATIONS**

Description	Mercury Part Number	Quicksilver Part Number
RTV 587 Silicone Sealer [3 oz. (85.05 grams)]	92-809825	92-809825
Loctite 262	Obtain Locally	Obtain Locally
Premium Gear Lubricant [1 Quart (0.94 liter)]	92-802846A1	92-802846Q1
Loctite 7649 Primer [4.5 oz (127.57 grams)]	92-809824	92-809824
Anti-Corrosion Grease [8 oz. (226.8 grams)] tube	92-802867A1	92-802867Q1
2-4-C with Teflon [8 oz. (226.8 grams)] tube	92-802859A1	92-802859Q1
Loctite Quick Tite	Obtain Locally	Obtain Locally
Isopropyl Alcohol	Obtain Locally	Obtain Locally
Hot Glue	Obtain Locally	Obtain Locally
Special Lubricant 101 [8 oz. (226.8 grams)] tube	92-802865A1	92-802865Q1
4 Stroke 10W30 Outboard Oil [1 Quart (0.94 liter)]	92-802833A1	92-802833Q1
4 Cycle 25W40 Engine Oil [1 Quart (0.94 liter)]	92-802837A1	92-802837Q1
Power Trim & Steering Fluid [8 oz. (226.8 grams)]	92-802880A1	92-802880Q1
Engine Coupler Spline Grease [14 oz. (0.39 kg)] cartridge	92-802869A1	92-802869Q1