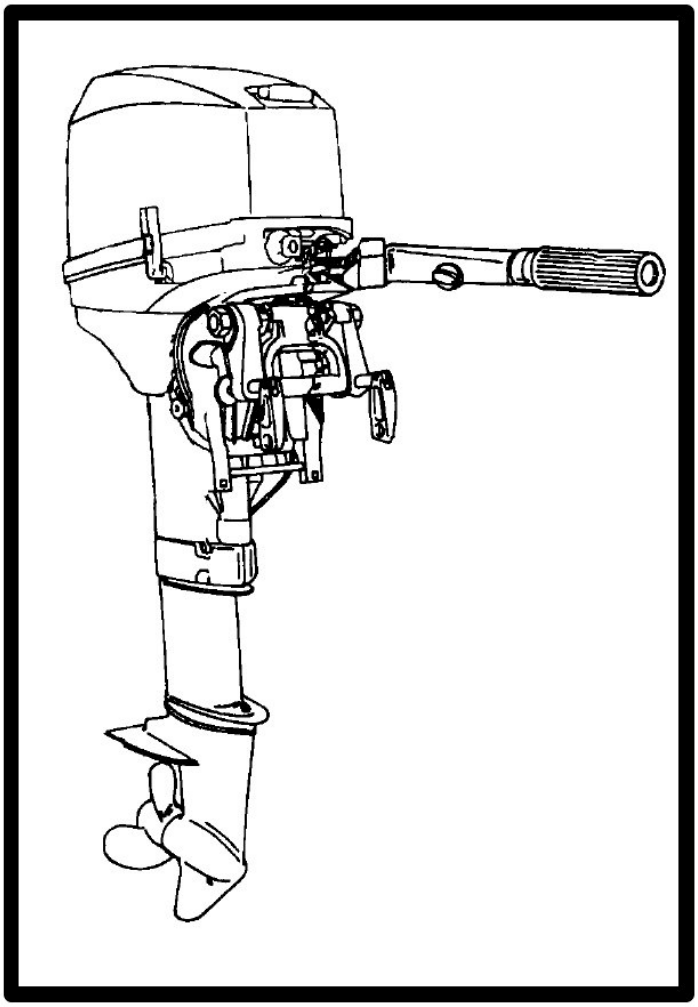
15 SEAPRO
15 MARATHON



NEW MODEL TECHNICAL INFORMATION

The service manual for the model(s) listed is being prepared. Retain this publication on specifications and timing/synchronizing procedures until the appropriate manual is received. Additional copies available. Contact the Publications Department, telephone 414-929-5110

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General Specifications

Model 15 SeaPro/Marathon		
OUTBOARD WEIGHT	**15 in. (38 cm)** **20 in. (51 cm)**	90 lbs - 41Kg 95 lbs - 43 Kg
CYLINDER BLOCK	**Type** **Displacement**	Two Cylinder - Two Cycle 24.4 cu. in. (400 cc)
STROKE	**Length**	2.362 in. (60 mm)
CYLINDER BORE	**Diameter (Standard)** **Taper/Out of Round Maximum** **Bore Type**	2.562 in. (65.01 mm) 0.003 in. (0.08 mm) Chrome
CRANK SHAFT	**Top Main Bearing Journal** **Center Main Bearing Journal** **Bottom Main Bearing Journal** **Connecting Rod Journal** **End Play**	1.251 in. (31.77 mm) 1.000 in. (25.40 mm) 1.125 in. (28.58 mm) .883 in. (22.43 mm) .004-.019 (0.10-0.64 mm)
CONNECTING ROD	**Piston Pin End (I.D.)** **Crankpin End (I.D.)**	.897 in. (22.78 mm) 1.196 in. (30.38 mm)
PISTON	**Piston Type** **O.D. at Skirt (Standard)** **Ring End Gap**	Aluminum 2.5583 - 2.5593 in. (64.98 mm - 65.0 mm) .011-.025 (.28 mm - .64 mm)
GEAR HOUSING	**Forward - Neutral - Reverse** **Gear Ratio** **Gearcase Capacity** **Lubricant Type** **Forward Gear - No. of Teeth-Type** **Pinion Gear - No. of Teeth-Type** **Pinion** **Foreword Gear Backlash** **Reverse Gear Backlash** **Water Pressure @ RPM** **Water Pressure With 120° Thermostat**	Full Shift 2.0:1 6.8 fl.oz. (205 ml) Quicksilver Gear Lube Premium Blend 26 13 Floating Not Adjustable Not Adjustable 2-7 PSI @ 2000 RPM 0-6 PSI (SPORADIC)
MID SECTION	**Transom Height - Short Shaft** **- Long Shaft**	15 in. (38 cm) 20 in. (51 cm)
FUEL SYSTEM	**Fuel Pump Type** **Recommended Gasoline** **Fuel Tank Capacity** **Operating Fuel/Oil Ratio**	Integral Automotive Regular or Unleaded with a Minimum Pump Posted Octane Rating of 87 6.6 U.S. Gallons 50:1
OIL	**Recommended Oil (Pre-Mix @ 50:1)**	NMMA TC-W II or TC-W III 2-Cycle Outboard Oil
STARTING SYSTEM	**Manual Start**	Recoil
CHARGING SYSTEM	**Alternator Output (Stator Only)**	5 Amp. (60 Watt) @ 4000 RPM

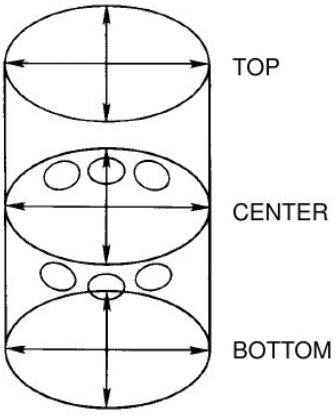
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Model 15 SeaPro/Marathon		
IGNITION SYSTEM	**Type** **Spark Plug Type (NGK)** **Spark Plug Gap** **Optional (Optional Plug)** **Firing Order**	Capacitor Discharge (NGK) BP8H-N-10 .040 IN. (1.0mm) (NGK) B8HS 1-2
CARBURETOR SPECIFICATIONS	**Idle RPM** **Wide Open Throttle (WOT) RPM** **Idle Mixture Screw Adjustment (Preset - Turns Out)**	750 ± 50 RPM (In Forward Gear) 4500 - 5500 1-1/2
TIMING SPECIFICATIONS	**Idle at 750 ± 50 RPM** **Maximum BTDC (Running) *** **Set Up Timing***	4° ± 1° (Not Adjustable) 25° 28° B.T.D.C. @ 3000 ± 200 R.P.M.
	⚠ WARNING ***To prevent personal injury or possible death, from loss of balance or stability while servicing the motor, DO NOT attempt to check or adjust timing while boat is in motion. Failure to follow one of the recommended servicing procedures may result in the person falling over-board or causing personal injury from fall in boat.**	

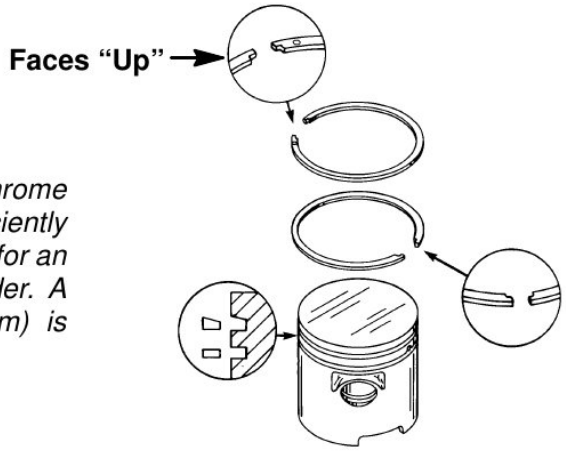
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Powerhead Specifications

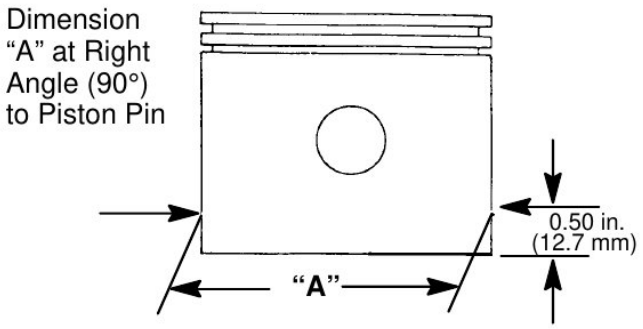
Model 15 SeaPro/Marathon		
CYLINDER BLOCK	**Type** **Displacement**	Two Cylinder - Two Cycle 24.4 cu. in. (400 cc)
STROKE	**Length**	2.362 in. (60 mm)
CYLINDER BORE	**Diameter (Standard)** **Taper/Out of Round Maximum** **Bore Type**	2.562 in. (65.01 mm) 0.003 in. (0.08 mm) Chrome
CRANK SHAFT	**Top Main Bearing Journal** **Center Main Bearing Journal** **Bottom Main Bearing Journal** **Connecting Rod Journal** **End Play**	1.251 in. (31.77 mm) 1.000 in. (25.40 mm) 1.125 in. (28.58 mm) .883 in. (22.43 mm) .004-.019 (0.10-0.64 mm)
CONNECTING ROD	**Piston Pin End (I.D.)** **Crankpin End (I.D.)**	.897 in. (22.78 mm) 1.196 in. (30.38 mm)
PISTON	**Piston Type** **O.D. at Skirt (Standard)** **Ring End Gap**	Aluminum 2.5583 - 2.5593 in. (64.98 mm - 65.0 mm) .011-.025 (.28 mm - .64 mm)



NOTE: The cylinder bores are chrome and cannot be rebored or efficiently honed. Check each cylinder bore for an out-of-round "egg shaped" cylinder. A maximum of .003 in. (0.076 mm) is allowable.



USING A MICROMETER, MEASURE DIMENSION "A" AT LOCATION SHOWN. DIMENSION "A" SHOULD BE 2.5588 IN. ± .0005 FOR A STANDARD SIZE PISTON.



Special Tools

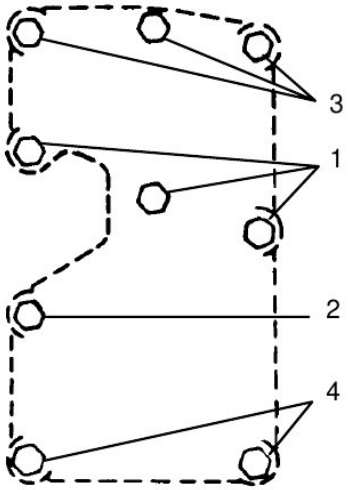
DESCRIPTION	PART NO.
Piston Pin Tool	91-76160A2
Piston Ring Expander	91-24697
Torque Wrench (0-200 lb. ft.)	*91-32610
Torque Wrench (0-150 lb. in.)	*91-66274
Flywheel Puller	91-83164M
Bolts 10 mm (3)	91-93191M

*May be obtained locally.

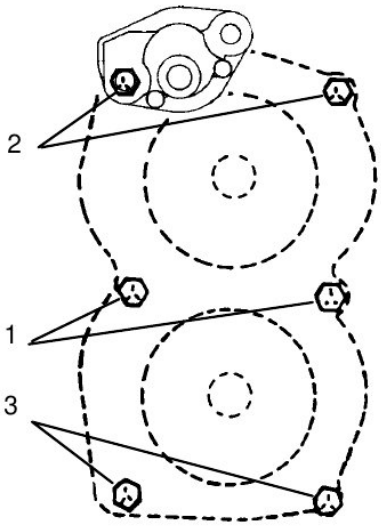
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Powerhead Torque Sequence and Torque Specifications

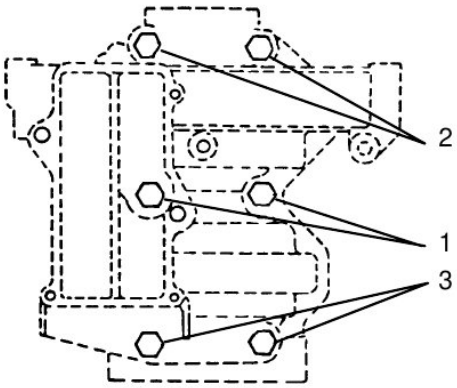
EXHAUST COVER TORQUE SEQUENCE
100 lb. in. (11.3 N·m)



CYLINDER BLOCK COVER TORQUE SEQUENCE
100 lb. in. (11.3 N·m)



CRANKCASE COVER TORQUE SEQUENCE
30 lb. ft. (40.7 N·m)

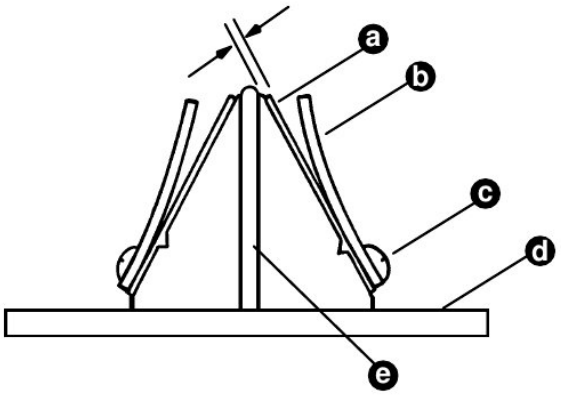


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Reed Block Assembly

REED VALVE OPENING

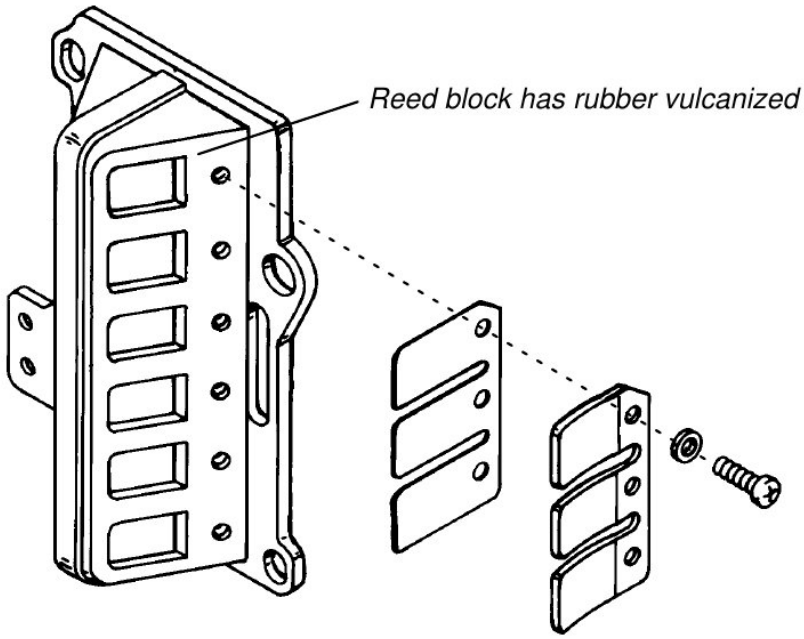
Max. .007 in. (0.178 mm)



a - Reed
b - Reed Stop
c - Screw
d - Reed Block
e - Seal (Vulcanized To Reed Block)

REED STOP OPENING

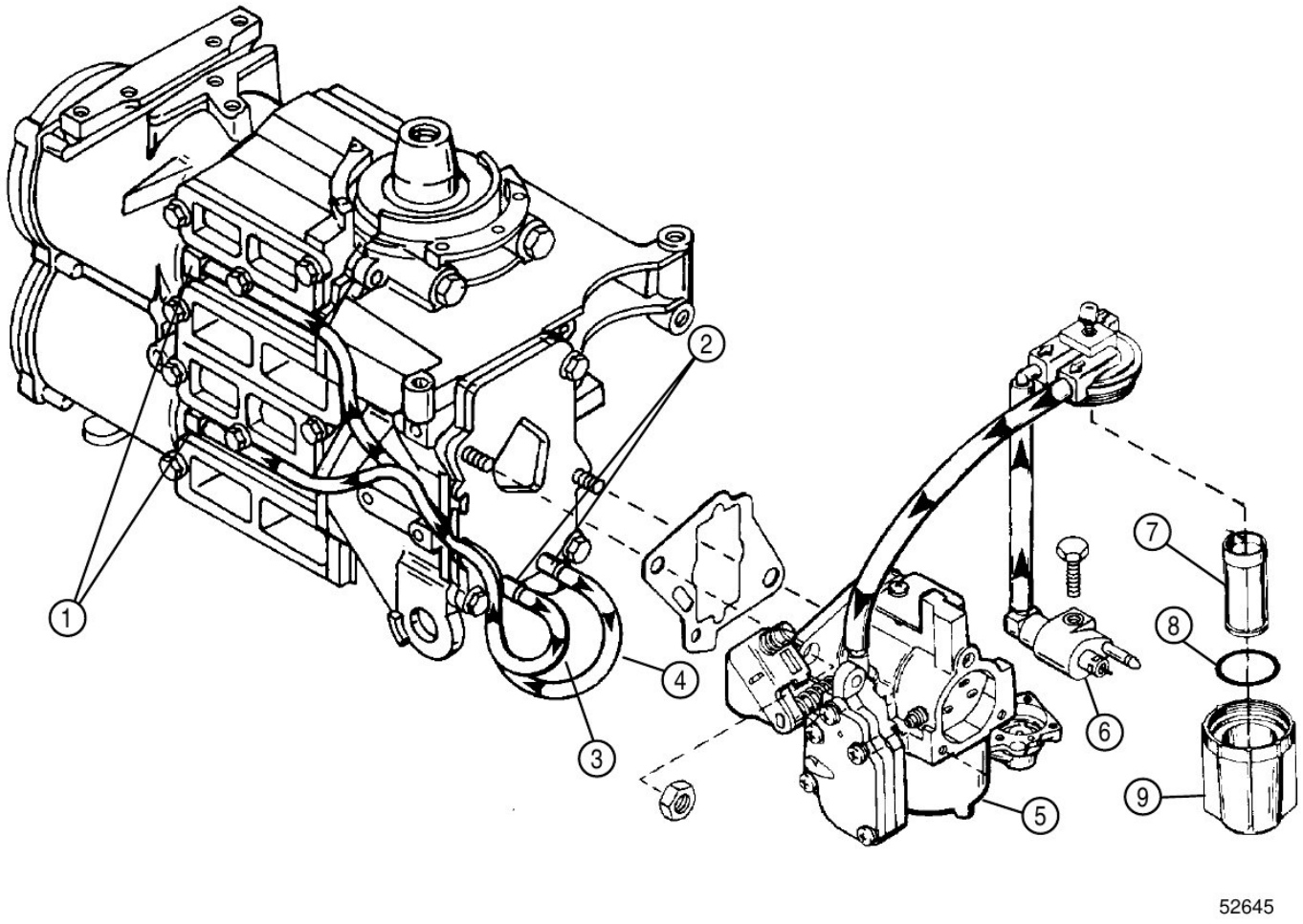
(Not adjustable)



NOTE: Reed block exploded view is for illustration purposes only. Reeds and reed block sold as an assembly only.

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Fuel Flow and Bleed System



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