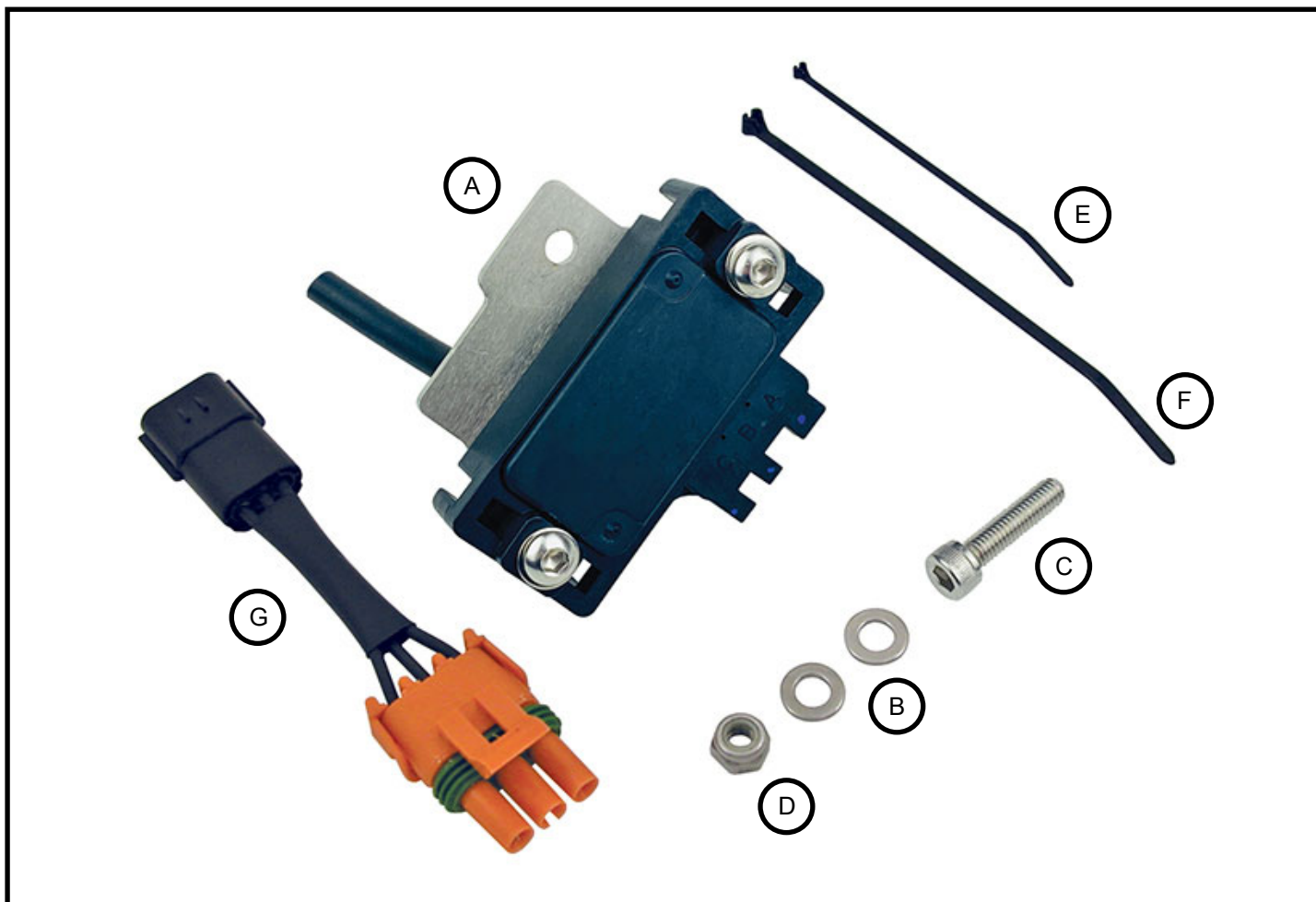




Yamaha 4-Bar MAP Sensor Kit

RY11740-MS-4



Applications: 2011 & Newer Yamaha SVHO & SHO boosted up to 40psi

Approximate Installation Time: .3 hours

Recommended Specialty Tools:

N/A

Part #

N/A

Required Materials:

N/A

Part #

N/A

For Engine Management Systems *other than* MaptunerX
see page 4 for MAP sensor Technical Parameters.



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Notes and Precautions

We strongly recommend the use of a service manual to familiarize yourself with the various components and procedures involved with this installation. Please note that some of the original hardware removed in the disassembly process will be used in the installation process. These instructions have been written in step-by-step format and refer to illustrations. Read through instructions entirely before performing installation. Please follow these step-by-step instructions and illustrations carefully.

***** ALLOW ENGINE TO COOL COMPLETELY BEFORE PERFORMING INSTALLATION *****

***** NO SMOKING *** NO SMOKING *** NO SMOKING *****

Caution: Whenever using electric or battery operated tools inside the hull be sure it is well ventilated and no fumes are present. Failure to do so could result in a fire, or explosion and serious personal injury or death.

This kit is not intended for use on pollution controlled vehicles. Installation on pollution controlled vehicles may constitute a violation of state or local statutes.

COMPONENT LIST

Item	Description	RIVA Part #	Qty. Req.	Notes
A	Map Sensor, 4-Bar	SNSR-03045	1	Pre-Assembled
	Bolt, 6MM X 30MM, BHCS	.6C30SBCS	2	
	6MM Flat Washer	.6NWTFS	4	
	6mm Nylock Nuts	.6CNNES	2	
	Bracket	FSM-RY11741-B	1	
	Vacuum Hose, (5/32)	27042-1	1	
	Zip Tie, 3", SS Tab, Nylon, Sm.	TY23MX	1	
B	6MM Flat Washer	.6NWTFS	2	
C	Bolt, 6MM X 25MM, SHCS	.6C25SHCS	1	
D	6mm Nylock Nuts	.6CNNES	1	
E	Zip Tie, 3", SS Tab, Nylon, Sm.	TY23MX	1	
F	Zip Tie, 7", SS Tab, Nylon, Lg.	TY25MX	1	
G	Wire Harness Assy	PA-RY11740-WH-1	1	

Your kit was inspected and verified before being carefully packaged by our staff. Please check package contents before beginning assembly. If you have a question about missing or damaged items please contact RIVA Technical Support directly at (954) 247-0705 or by e-mail at tech_support@rivaracing.com.

Installation Instructions

Remove plastic engine cover (2 bolts), if applicable.
(Figure 1)

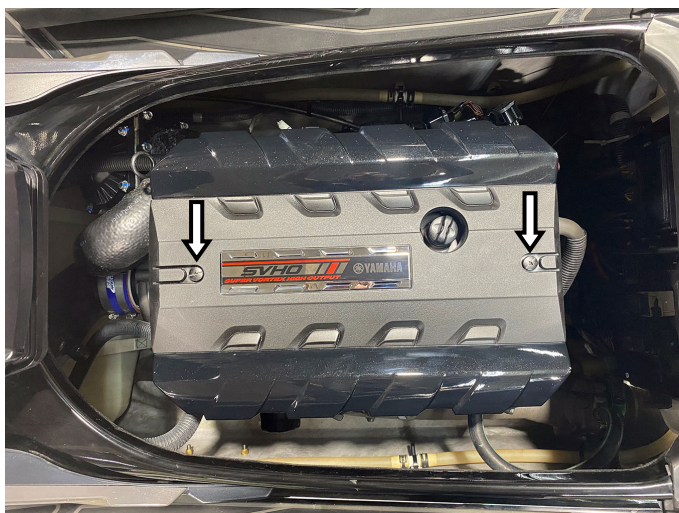


Figure 1

At rear of intake manifold disconnect electrical connector at map sensor and vacuum hose from intake manifold.
(Figure 2)

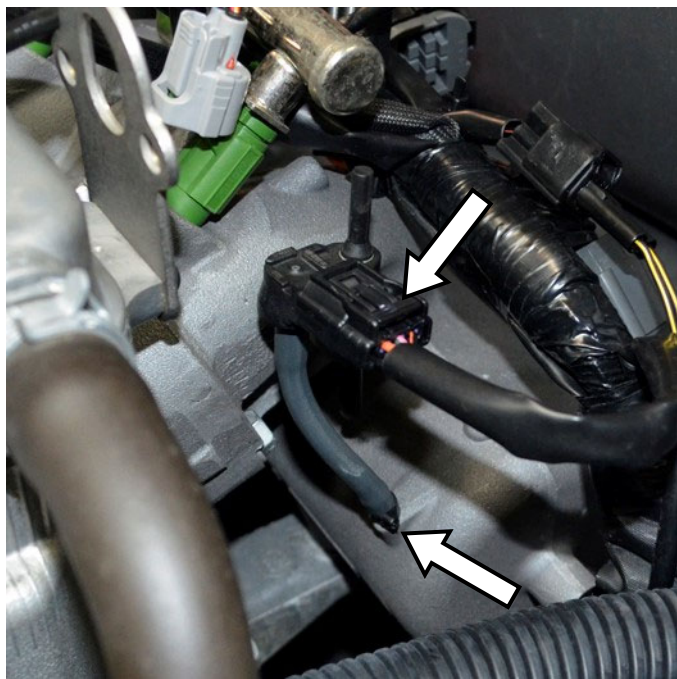


Figure 2

While pulling up and back on stock map sensor (stretching rubber mounting grommet), spray the rubber grommet at the intake manifold with carburetor or brake cleaner to remove grommet from intake manifold.

Attach vacuum hose on supplied 4-Bar MAP Sensor to fitting on intake manifold. Secure with supplied small zip tie.

Install 4-Bar MAP Sensor onto intake manifold with supplied hardware.

Connect open end of map sensor wire to wiring harness. Secure wiring harness to cooling hose using supplied large zip tie. (Figure 3)

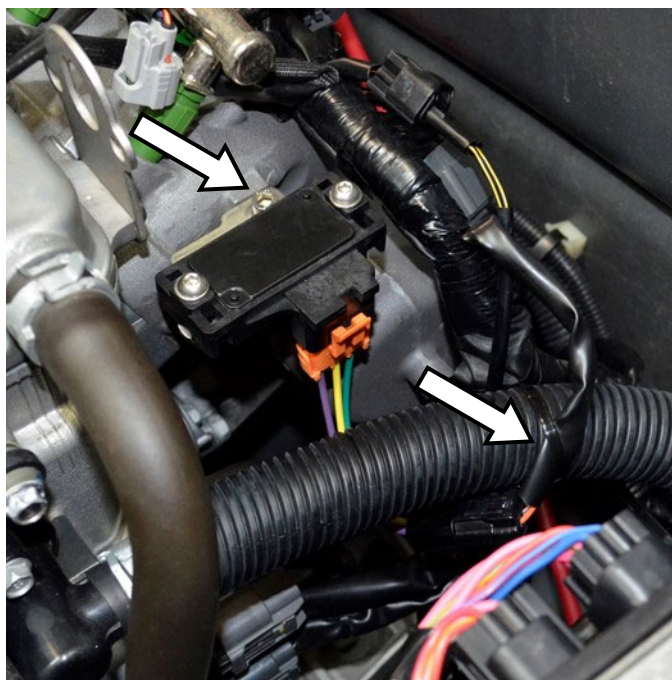


Figure 3

Replace plastic engine cover.

Check bilge for tools, rags, etc.

Run craft on a flush kit to check for proper operation.

***Remember, the water belongs to everyone.
Please ride responsibly and respect the environment!***

Due to the nature of this product warranty coverage is not applicable.

Technical Support

For answers to questions regarding installation or trouble shooting RIVA Performance Products contact:

RIVA Technical Support directly at (954) 247-0705 or by e-mail at tech_support@rivaracing.com.

Engine Management Systems *other than* MaptunerX

RIVA Yamaha 2014+ SVHO & 2011~16 SHO 4-BAR M.A.P. Sensor
RY11740-MS-4



PIN OUT:

A: GROUND (GREEN WIRE)

B: SENSOR OUTPUT (YELLOW WIRE)

C: +5 VOLT SOURCE (PURPLE WIRE)

TECHNICAL PARAMETERS:

Pressure (kPa)	20	30	40	50	60	70	80	90	100	200	300	400
Volts	0.390	0.505	0.619	0.734	0.849	0.964	1.078	1.193	1.308	2.455	3.603	4.750
Test Current (mA)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

NOTE: Above values are for use with all aftermarket Engine Management systems **EXCEPT** RIVA MaptunerX.
For assistance with MaptunerX Tunes for boost applications over 171.68kPa (24.9psi) please contact jesusg@rivaracing.com.