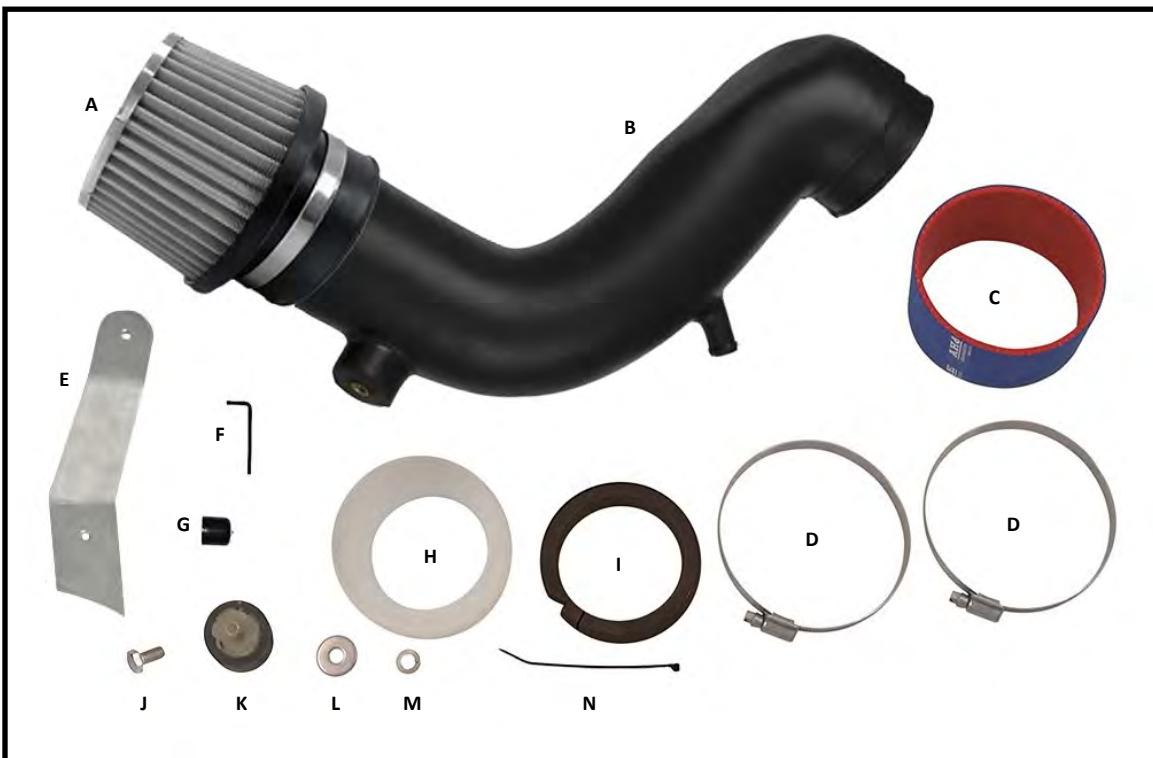




**RIVA RACING**  
PERFORMANCE PRODUCTS & ACCESSORIES

## GP1800 SVHO Power Filter Kit

*RY13110-3*



**Applications:** Yamaha GP1800 SVHO 2017~2020

**Approximate Installation Time:** 1.0 hr.

**Recommended Specialty Tools:**

None

**Part #**

N/A

**Required Materials:**

Blue Loctite

**GET THE LATEST UPDATES!**

Prior to installation, go to the RIVA Racing online Instruction Library to download the latest version of these instructions:

<https://rivaracing.com/instructions>

**Optional Accessories (not supplied in kit):**

Water repellent Pre-Filter

**Part #**

RK13090PF-BK

Engine Breather Upgrade

RY19040-12-EBUK

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 \*\*\***



**GP1800 SVHO Power Filter Kit**

*RY13110-3*

***COMPONENT LIST***

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
A	1	RK13090-4	Filter Element
B	1		Power Filter Tube
C	1	RY15-04/2.0	Silicone Coupler
D	2	6564E-52	#64 Hose Clamp
E	1		Bracket
F	1	7122A17	Hex Key
G	1	9753K54	Plastic Cap
H	1		Velocity Stack
I	1		Threaded Ring Assy
J	1	0096820	8 x 20 mm SS Hex Head Bolt
K	1	RY15-2NPF2	Lord Mount
L	1	410.8.24	8 mm Fender Washer
M	1	04478	8 mm Lock Washer
N	1	TY24MX	Zip Tie

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](mailto:tech_support@rivaracing.com).

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.**

## **- INSTALLATION INSTRUCTIONS -**

Disconnect lanyard. Remove seats.

Remove two screws holding plastic engine cover and pull cover up off rubber mounts. (Figure 1)

Figure 1



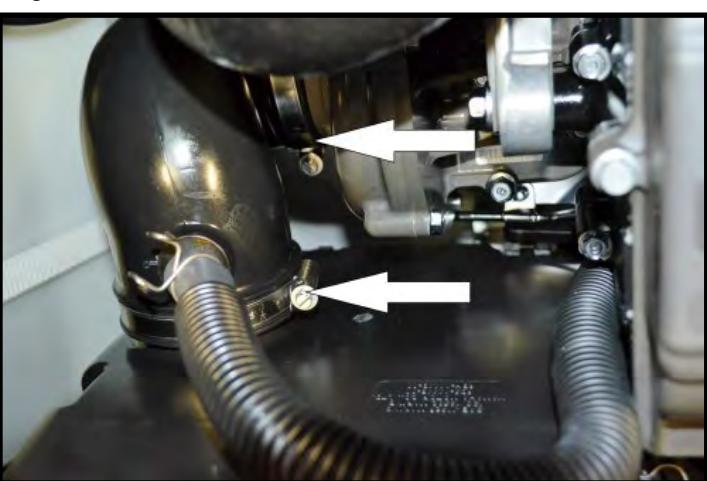
Disconnect engine breather hose from supercharger inlet hose. (Figure 2)

Figure 2



Loosen clamps (2) and remove hose between stock air box and supercharger and discard. (Figure 3)

Figure 3



Remove air filter case cover (8 clips, 2 on each side) with air filter and discard. (Figure 4)

Figure 4



Remove air filter case mounting bolts (4 total, 2 on each side) and then air filter case. Discard bolts and case. (Figure 5)

Figure 5



If installing RIVA Power Cooler RY17081-PC Skip this step. Leave filter case bracket to mount Power Cooler.

Remove air filter case mounting bracket (4 nuts & washers) and discard. (Figure 6)

Figure 6



## - INSTALLATION INSTRUCTIONS -

Remove the nut and washer inside the hull on the left seat bracket mounting stud. (Figure 7)

Figure 7



Install bracket inside hull on seat bracket stud. See figure 8 for proper orientation of bracket. Fasten with OEM nut and washer.

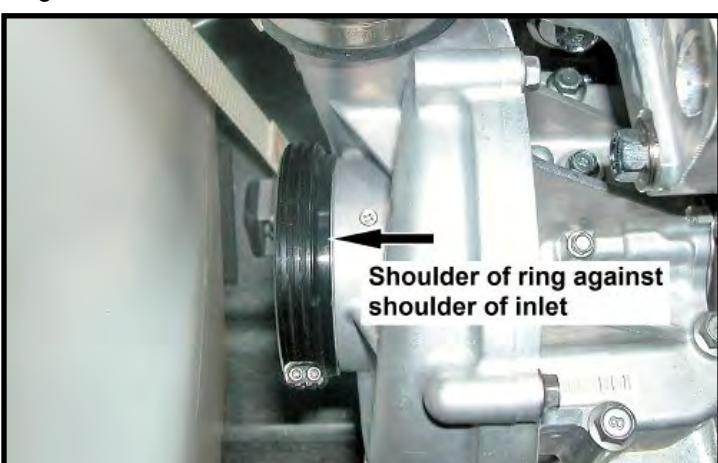
Figure 8



Thoroughly clean outside of supercharger inlet using a non-residual cleaner.

Install supplied billet threaded ring assy. onto supercharger inlet completely. Secure using supplied hex key wrench. (Figure 9) **NOTE: The side with the small shoulder must face the supercharger housing. DO NOT USE LOCTITE. Bolts come equipped with thread locking agent. Do not over tighten bolts.**

Figure 9



Carefully screw (right-handed threads) supplied velocity stack onto billet adapter flange. **NOTE: Do not over tighten. Velocity stack only needs to be snug.** (Figure 10)

Figure 10

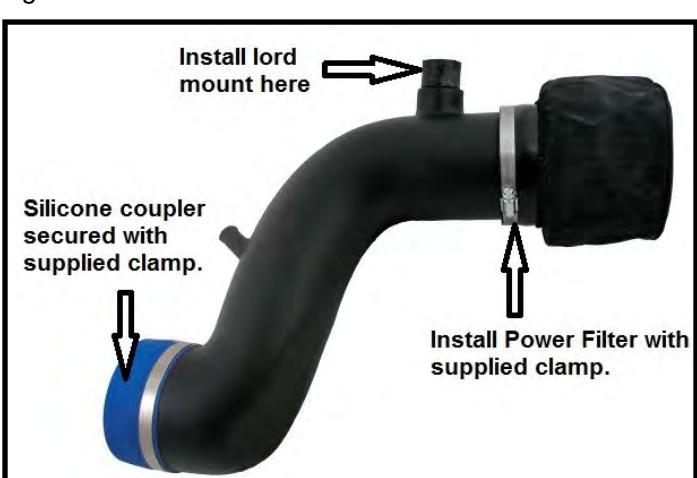


Install supplied lord mount into threaded brass insert in Power Filter tube. **NOTE: Apply blue Loctite to stud. Do not over tighten**

Install supplied Power Filter onto end of tube with threaded brass insert and secure. **Tip: Lubricate inside of filter and outside of tube with glass cleaner. NOTE: Do not over tighten clamp.**

Install supplied silicone coupler onto opposite end of Power Filter tube. Secure using one supplied hose clamp. **Tip: Lubricate inside of coupler and outside of tube with glass cleaner. NOTE: Do not over tighten clamp.** (Figure 11)

Figure 11



Place second supplied clamp over adapters on supercharger inlet.

At front of engine insert Power Filter tube assembly into engine compartment over fuel tank (Power Filter end first).

Lower coupler end of Power Filter tube assembly into place by rotating towards supercharger. Place coupler at

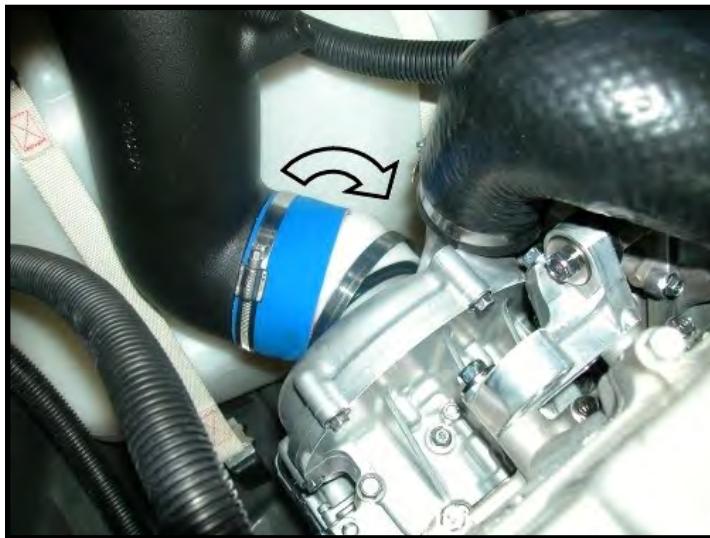
## **- INSTALLATION INSTRUCTIONS -**

an angle over left side of velocity stack on supercharger inlet.

Install by rotating Power Filter tube assembly while pulling toward engine. (Figure 12) **Tip: lubricate inside of coupler, inside of tube, and outside of velocity stack with glass cleaner. NOTE: Velocity stack fits into Power Filter tube.**

Ensure Power Filter tube is installed onto velocity stack completely.

Figure 12



Locate lord mount on Power Filter tube. Rotate Power Filter tube towards mounting bracket until aligned. Secure lord mount to bracket using supplied M8 bolt, M8 lock washer and M8 fender washer. **NOTE: Apply blue Loc-tite to bolt. Do not over tighten bolt.** Tighten clamp for coupler at supercharger inlet. **NOTE: Do not over tighten clamp.**

Using OEM clip, install engine breather hose onto fitting at center of Power Filter tube. (Figure 13) **NOTE: If using RIVA Engine Breather Upgrade Kit or RIVA Catch Can Kit install supplied plastic cap onto Power Filter tube fitting and secure using supplied zip tie.**

Figure 13



Replace plastic engine cover. **NOTE: Apply blue Loc-tite to bolts. Do not over tighten bolts.**

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!***

### **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](mailto:tech_support@rivaracing.com).

### **Limited Warranty**

RIVA Power Filter Kits carry a 1 year limited warranty to the original purchaser. They are warranted to be free of defects in materials and workmanship under normal use and service. Customer modified components will be void of warranty. This warranty is limited to defects in the primary components only. Finish and/or wear marks in or on primary components are not covered under this warranty.

RIVA Racing's liability is expressly limited to the repair or replacement of the components contained within or associated with this kit. RIVA Racing agrees to repair or at RIVA's option, replace any defective unit without charge, if product is returned to RIVA Racing freight prepaid within the warranty period. Any equipment returned which, in RIVA's opinion, has been subjected to misuse, abuse, overheating or accident shall not be covered by this warranty.

RIVA Racing shall have no liability for special, incidental or consequential damages or injury to persons or property from any cause arising from the sale, installation or use of this product.

No other warranty, express or implied, including, but not limited to the implied warranties of merchantability and fitness for a particular purpose, applies. Various states do not allow for the limitation of incidental or consequential damages and therefore the above exclusion or limitation may not apply to you.

Warranty does not include the expenses related to freight or transportation of parts or compensation for any inconvenience or loss of use while being repaired. A copy of the original invoice and a Return Authorization Number (RA#) must accompany all warranty claims.

Warranted replacement parts will be returned freight collect.