



## **Kawasaki Performance Power Filter Kit**

*RK13100*



**Applications:** Kawasaki Ultra 310 & 300 Models

**Approximate Installation Time:**

3+ HRS

**Recommended Specialty Tools:**

Large Knife

**Part #**

N/A

**Required Materials:**

Blue Loctite

**Part #**

N/A

**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>



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**COMPONENT LIST**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>RIVA PART #</u>	<u>QTY</u>	<u>NOTES</u>
A	Power Filter Tube	RTL-RK13100-T	1	
B	Coupler (4" x 3-1/2" ID x 3" L)	RK15-4/3.50.3	1	
C	Power Filter Bracket	FSM-RK13100-BRKT	1	
D	Power Filter	RK13100	1	
E	Pre-filter	RK13090PF-BK	1	
F	Breather Hose (3' x 3/4" ID)	28412-1	3	
G	M6 x 12MM HHCS Bolt	096.6.12	2	
H	M6 Flat Washer	369021SS	4	
I	M6 Nylock Nut	561030SS	1	
J	M6 x 40MM HHCS Bolt	096.6.40	1	
K	M6 x 25MM HHCS Bolt	096.6.25	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](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.**

**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.**

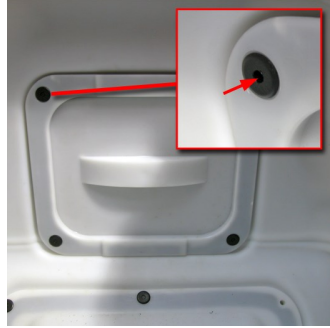
## - INSTALLATION INSTRUCTIONS -

### STOCK AIR INTAKE REMOVAL

Inside front storage compartment remove inspection hatch.



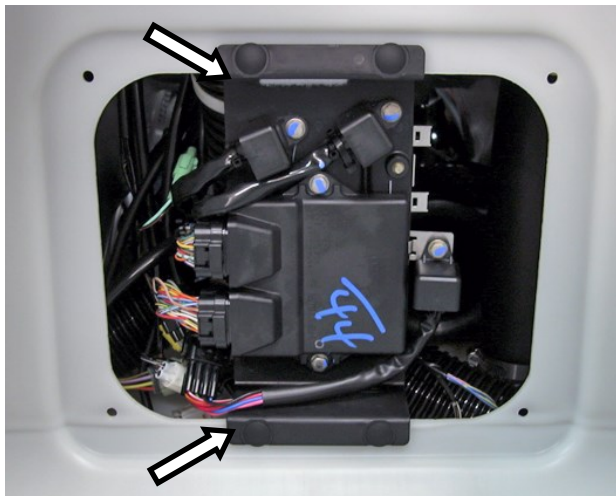
**2022+ Models**  
Pull cover to remove.



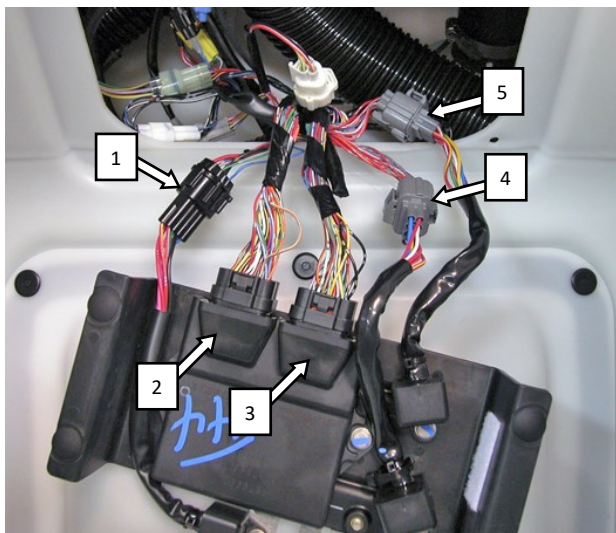
**2021 & Prior Models**  
Press center of pins to remove.

### 2021 & Prior Models

Remove ECU bracket by carefully prying ends away from bulkhead.



Identify electrical connectors (5). Disconnect and remove ECU bracket.



Tuck wire loom inside and to the left as you are facing front of craft.

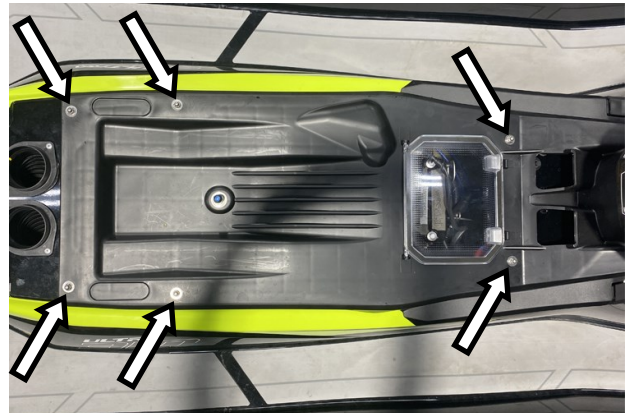
### All Models

Cut and remove zip tie securing vent tubes together. Move tubes aside.

Remove seats.

### 2022+ Models

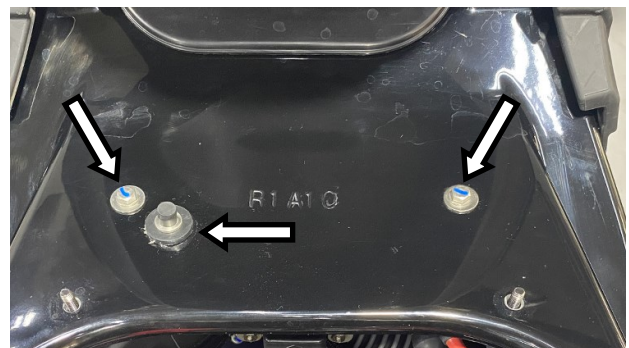
Remove engine cover (6 nuts & washers).



### 2022+ Models

Disconnect supercharger lubrication hose from fitting.

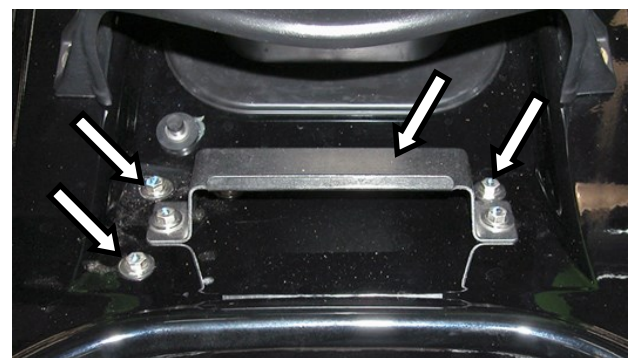
Remove bolts (2) securing electrical bracket.



Move electrical bracket back, towards rear of motor.

### 2021 & Prior Models

Remove bolts (6) securing seat stay bracket and throttle controller.



Disconnect throttle controller electrical wire.

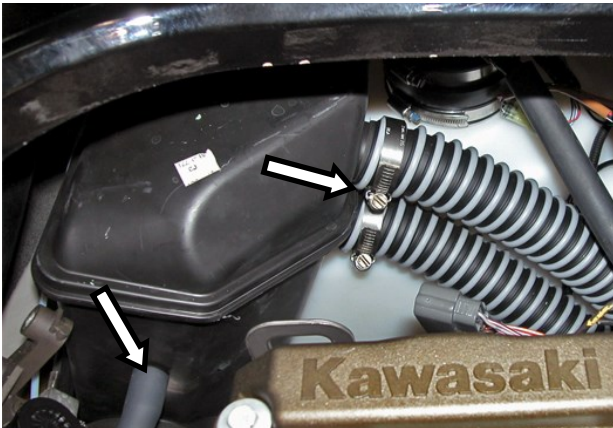
Move throttle controller and ignition coil bracket to right.

## **- INSTALLATION INSTRUCTIONS -**

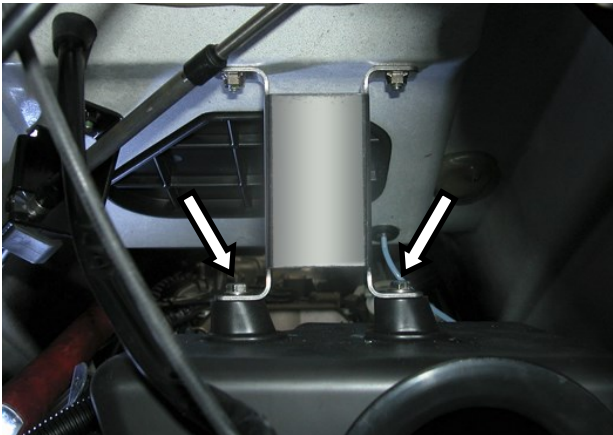
### **All Models**

Remove hose between air box and catch can and discard. Retain spring clamps.

Remove emissions hoses (2) from stock air box.

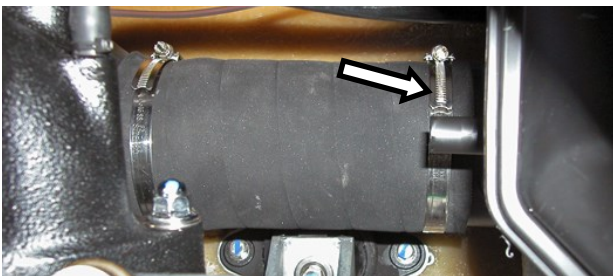


Remove bolts securing air box to support bracket.



**2021 & Prior Models:** To remove bracket completely, access bolts securing bracket to hull through gap between steering and glove box compartment.

Loosen clamp securing air inlet tube to supercharger inlet.



### **AIR BOX REMOVAL**

#### **All Models**

Cut large zip ties (2) securing top half of air box to lower half.

Using a small screwdriver, pry open tabs to separate top half of air box from lower half.

- **2022+ Models:** 2 tabs on side facing fuel pump.
- **2021 & Prior:** 6 tabs around air box.

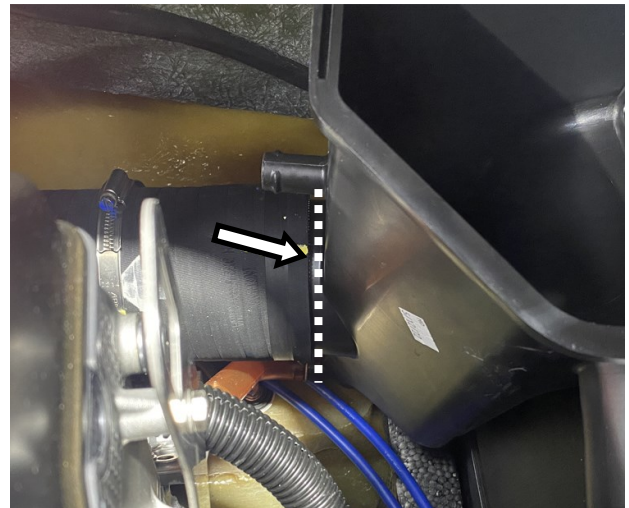
Remove top half through front storage compartment.

### **2022+ Models (2021 & Prior Models go to Page 5)**

You are required to cut the lower half of the air box into 2 sections in order to facilitate removal. We do not recommend using a saw. This could allow small particles to enter the supercharger causing severe damage. Instead, we recommend using a large blade that is heated to allow it to melt through the plastic as you cut it.

**DO NOT USE OPEN FLAME NEAR ENGINE COMPARTMENT. PROCEED CAREFULLY WHILE CUTTING.**

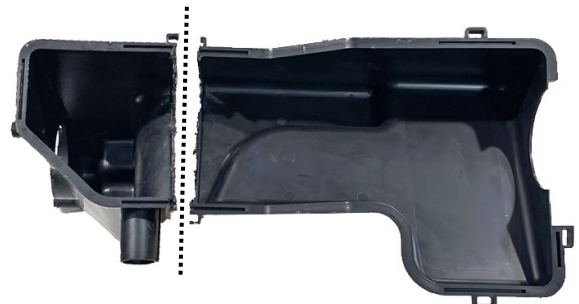
While pulling lower half of air box back against engine, cut off outlet flange flush with air box using a hot knife. Outlet flange will remain inside supercharger air inlet tube.



Remove air inlet tube between air box and supercharger inlet. Retain clamps (2).

Pull lower half of air box back against motor. Remove screen element.

While holding lower half of air box back against motor cut in half using a hot knife at channel that held screen element in place.



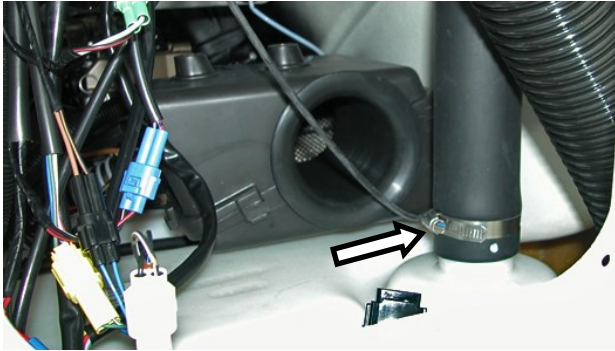
**DO NOT USE OPEN FLAME NEAR ENGINE COMPARTMENT. PROCEED CAREFULLY WHILE CUTTING.**

Carefully remove sections of lower air box through front storage compartment.

## - INSTALLATION INSTRUCTIONS -

### 2021 & Prior Models

Disconnect fuel tank filler hose from fuel tank.



**IMPORTANT:** Seal fuel tank opening to prevent debris from entering tank and release of fumes.

Remove air box inlet duct and screen element.

Remove air inlet tube between air box and supercharger inlet. Retain clamps (2).

*Carefully* rotate bottom half of air box clockwise as you are facing front of craft.



*Carefully* remove bottom half of air box through front inspection hatch and discard.

### POWER FILTER INSTALLATION

#### All Models

Install supplied coupler onto end of supplied Power Filter tube. Secure using one stock clamp. **NOTE: Do not over tighten clamp.**

Install supplied Power Filter and Pre-filter onto Power Filter tube. **NOTE: Do not over tighten clamp.**

Loosely install supplied bracket onto Power Filter tube using supplied M6 x 12MM bolts and M6 flat washers. **NOTE: Apply blue Loctite to threads.**



### 2022+ Models

Cut out template on last page of these instructions and place on hull over supercharger lubrication fitting.

Drill new bolt hole at top, right with 15/64" drill bit.



### All Models

*Carefully* insert Power Filter tube assembly into hull through front storage compartment. Spray inside of coupler with glass cleaner and place second stock clamp over coupler.

Rotate and guide coupler onto supercharger inlet. Do not secure at this time.



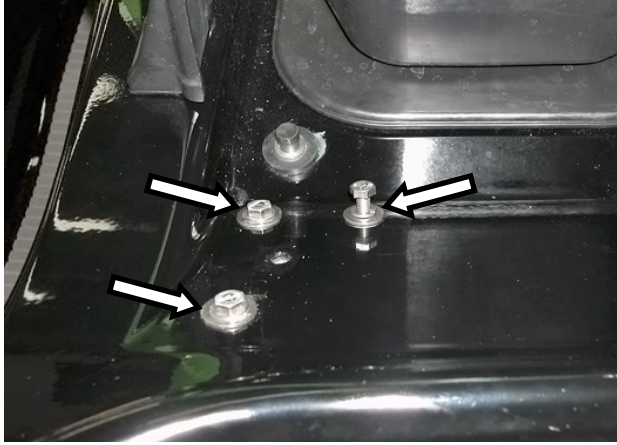
### 2022+ Models

Raise Power Filter bracket to hull and loosely secure with supplied M6 x 25MM bolt, M6 washers and M6 nylock nut.

## **- INSTALLATION INSTRUCTIONS -**

### **2021 & Prior Models**

Replace throttle controller using only two stock bolts. Insert supplied M6 x 40mm bolt into third location. **NOTE: Apply blue Loctite to bolts. Do not over tighten.**



Raise Power Filter tube so that bracket lines up with M6 x 40mm bolt. Loosely secure Power Filter bracket using supplied M6 washer and nylock nut.

### **2022+ Models**

Replace electrical bracket. **NOTE: Apply blue Loctite to bolts. Do not over tighten.**

Replace supercharger lubrication hose onto hull fitting.

### **All Models**

Tighten bolts (2) securing Power Filter tube to bracket. **NOTE: Do not over tighten bolts.**

Tighten bolt securing Power Filter bracket to hull. **NOTE: Do not over tighten bolts.**

Tighten clamp securing Power Filter tube coupler to supercharger inlet. **NOTE: Do not over tighten clamp.**



Install bypass hoses onto Y-fitting on Power Filter tube. Secure using stock clamps. **NOTE: Do not over tighten clamps.**

**TIP:** Install first hose as far as possible. Before installing second hose. Twist as if unscrewing so you can thread it past first hose.

Install supplied breather hose between catch can and open fitting on Power Filter tube above bypass hoses. Secure using stock spring clamps.

### **2021 & Prior Models**

Replace ignition coil and seat stay brackets. **NOTE: Apply blue Loctite to bolts. Do not over tighten.**

Reconnect throttle controller electrical wires.

Replace fuel filler hose. **NOTE: Do not over tighten clamp.**

In front storage compartment, carefully reconnect electrical connectors (5) at ECU bracket. Replace ECU bracket.

### **All Models**

Replace front inspection hatch cover

Check bilge for rags, tools etc.

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

### **2022+ Models**

Replace engine cover. **NOTE: Apply blue Loctite inside cap nuts. Do not over tighten.**

***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.

# Kawasaki Ultra 310/300 Performance Power Filter Kit

*RK13100*

## **Power Filter Bracket Template (2022 & Newer Models)**

