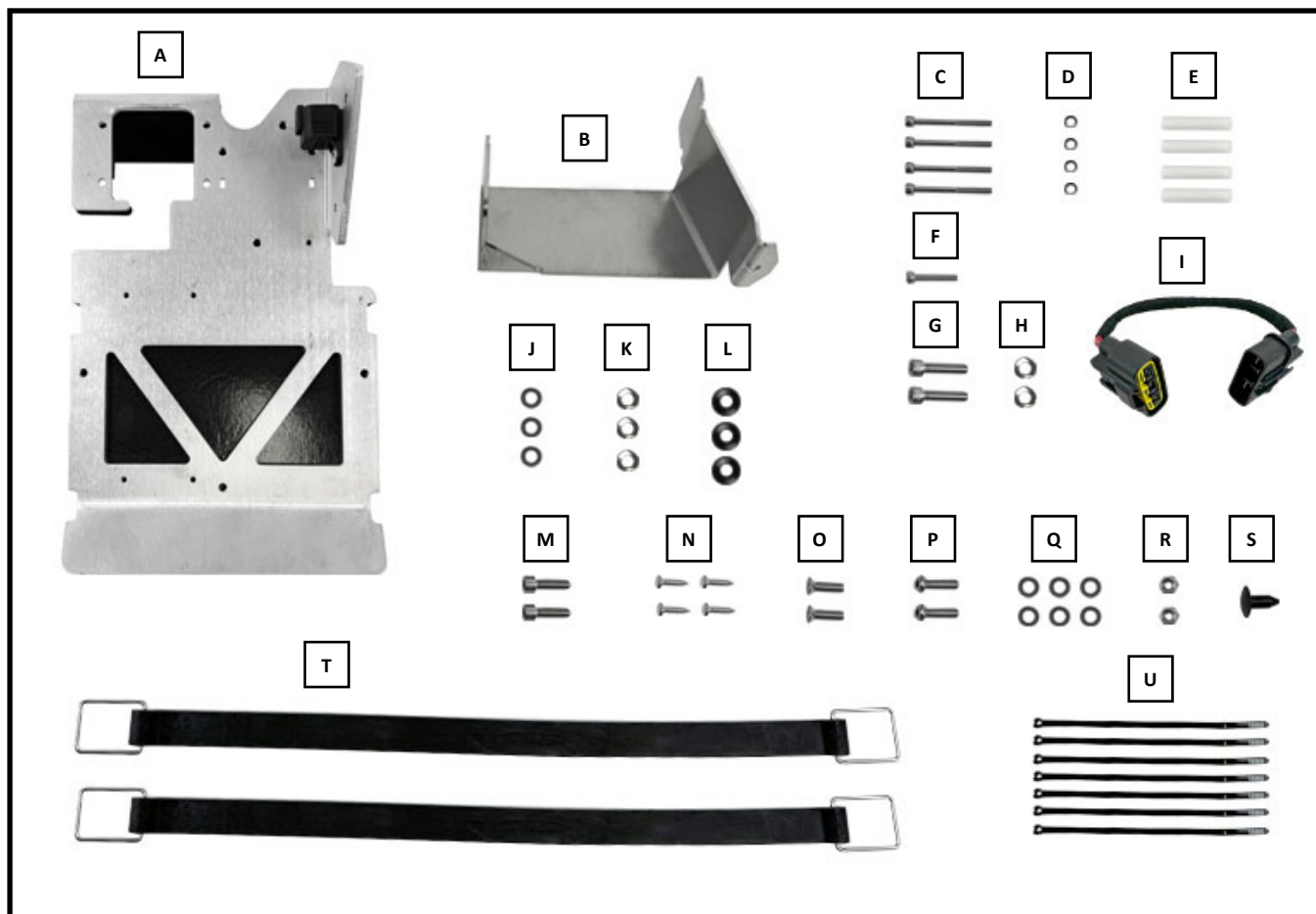




## Sea-Doo Airbox Removal Kit

RS13220-ARK



**Applications:** All 325 & 2018+ 300/230 HP Sea-Doo Models

**Approximate Installation Time:**

2HRS

**Recommended Specialty Tools:**

N/A

**Part #**

**Required Materials:**

N/A

**Part #**

### **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>



## **Sea-Doo Airbox Removal Kit**

RS13220-ARK

### **COMPONENT LIST**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>RIVA PART #</b>	<b>QTY</b>	<b>NOTES</b>
A	Electrical Mounting Bracket	FSM-RS13220-B	1	All Models
B	Coolant Tank Bracket	FSM-RS13120-CB	1	
C	M4x45mm SHCS	91292A133	4	325hp Models Only
D	M4 Wave Washer	97099A103	5	
E	M4 Nylon Spacer (white)	94639A381	4	
F	M4x25mm SHCS	91292A122	1	
G	M6x25mm SHCS	.6C25SHCS	2	
H	M6 Wave Washer	.6NWAWS	2	
I	Extension Cable	SIBEL-UL101512AWG*2	1	
J	M6 Flat Washer	.6NWTFS	3	300/230hp Models Only
K	M6 Wave Washer	.6NWAWS	3	
L	M6 Nylon Spacer (black)	90176A155	3	
M	M6x20mm SHCS	.6C20SHCS	2	All Models
N	#8 x5/8in Self Tapping Screw	92470A196	4	
O	M6x20mm PFHS	.6C20MXFS	2	
P	M6x20mm BHCS	.6C20SBCS	2	
Q	M6 Flat Washer	.6NWTFS	2	
R	M6 Nylock Nut	.6CNNES	2	
S	Push Pin Retainer	150155051	1	
T	Straps	2938501204	2	
U	Zip Tie (LG)	TY25MX	7	

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 \*\*\***

## **- INSTALLATION INSTRUCTIONS -**

These instructions are written as though an aftermarket air intake system was previously installed without removing the OEM airbox.

### **325hp RXT/GTX Models**

You will need to remove the front storage bin to access and remove the OEM airbox. Refer to your OEM Service Manual for front storage bin removal process.

### **300/230hp RXT/GTX Models**

We recommend removing front storage bin to access and remove OEM airbox. Refer to your OEM Service Manual for front storage bin removal process.

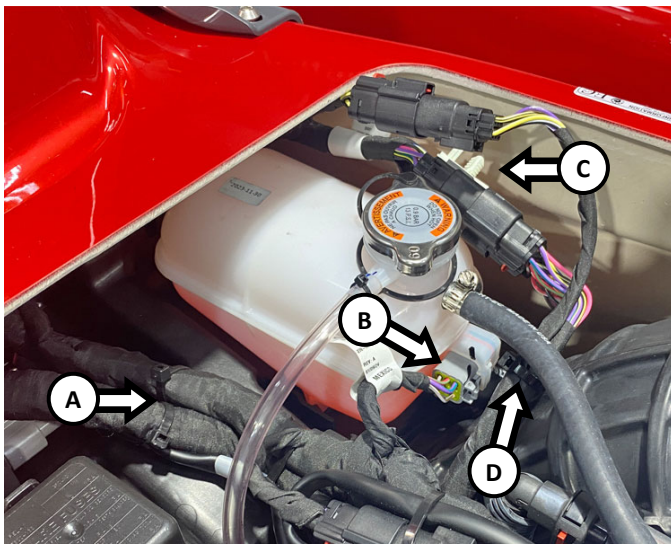
### **RXP Models**

Inside front storage compartment, remove divider wall in order to access fuel sender unit.

### **ALL MODELS**

Cut & remove all zip ties securing wiring & hose to fuel rail.

Cut & remove zip ties (A) securing wiring harnesses to top of OEM airbox.



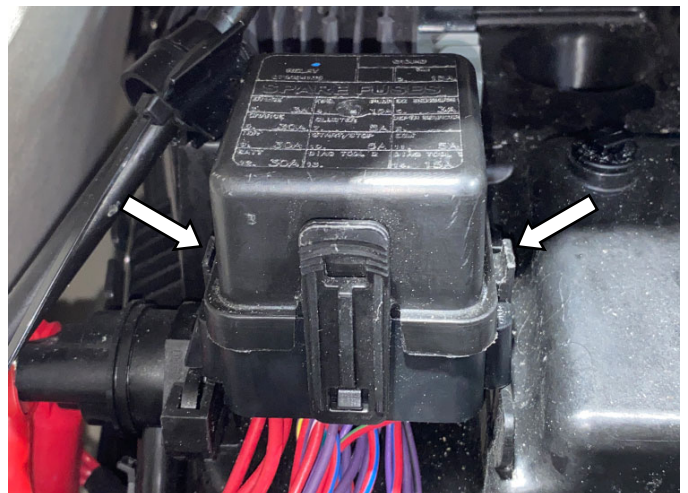
Remove diagnostic connector (B) from engine coolant tank.

Disconnect electrical connectors (C) beside engine coolant tank. Cut zip tie (D) securing wiring harness to rubber air intake tube.

Remove coolant tank by prying locking lever at underside away from tank and then pulling tank towards rear of craft.



Remove fuse box by prying smaller tab on each side outward and then lifting.

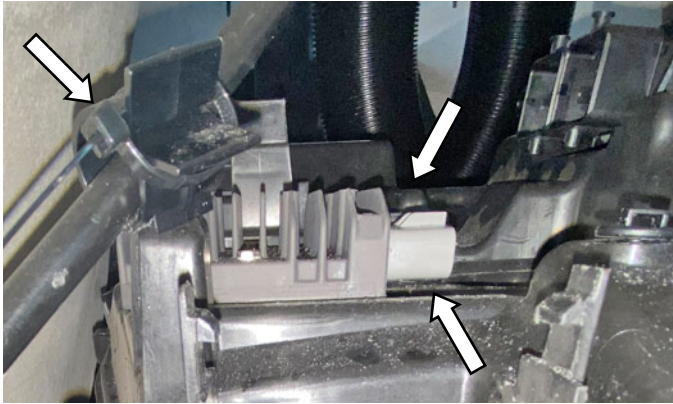


Remove starter relay by prying locking tab outward and then lifting relay upward.



## - INSTALLATION INSTRUCTIONS -

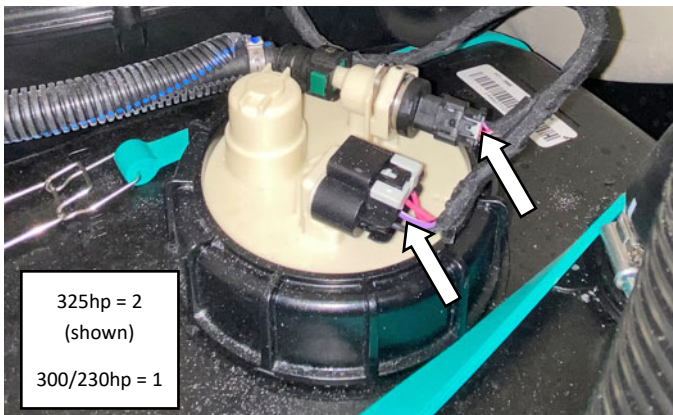
Disconnect electrical connector on starter relay and disconnect electrical connectors (2) from regulator/rectifier.



Remove steering cable from clip.

Follow electrical wiring from engine over top of and alongside of airbox. Cut and remove all zip ties.

Disconnect electrical connector(s) at top of fuel sender unit. (**RXP Models:** Access through front storage compartment.)



### ALL 325hp Models

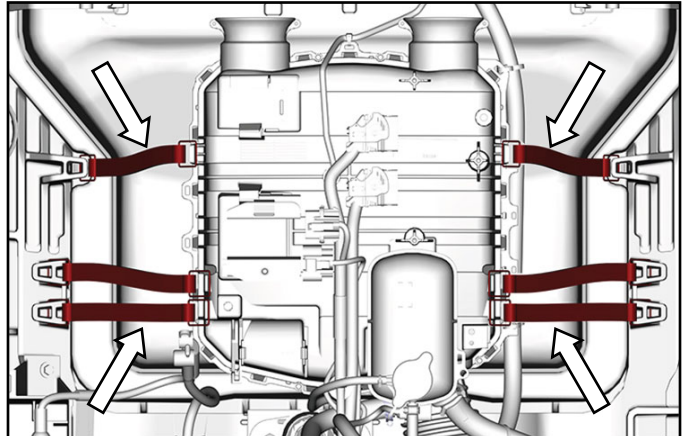
Disconnect electrical connector from fuel pump relay module at front, top of airbox.



### ALL Models

Ensure all wires, hoses, and cables are detached and cleared away from airbox.

Remove black straps (3 per side) securing airbox to fuel tank and discard.



### ALL 300/230hp Models

Proceed to next page.

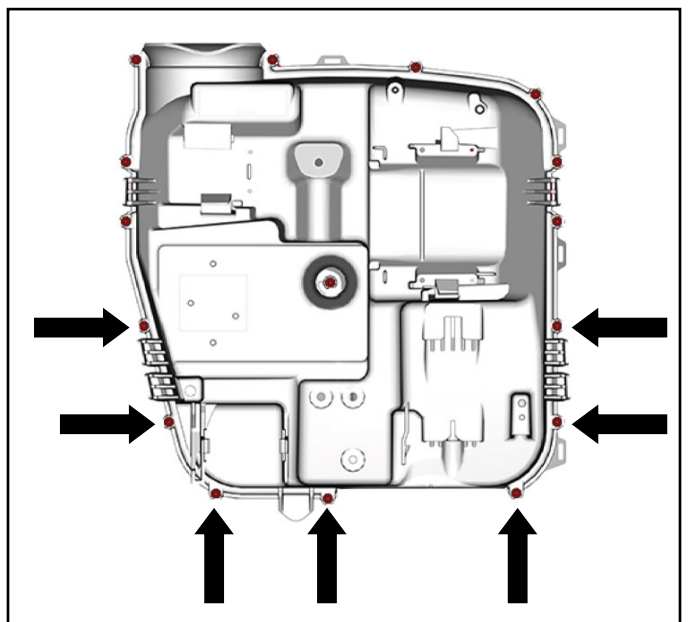
### RXT/GTX 325hp Models

Remove airbox.

### RXP 325hp Models

The airbox must be split in half in order to remove it without removing engine. There are 16 heat molded plastic rivets securing airbox together.

Using a sharp box cutter, *carefully* slice off top of 7 rivets around back and sides.



## - INSTALLATION INSTRUCTIONS -

### RXP 325hp Models (cont.)



*Carefully* rotate airbox on top of fuel tank to access rivets at sides.

Begin separating upper half from lower half of airbox by pulling apart at opening at rear of airbox.

Remove large white baffle from inside airbox and discard. Finish separating airbox by prying apart from inside with a flat blade screwdriver or mini pry bar. **NOTE:** Plastic rivets break off easily.

Remove large ribbed baffle from inside of airbox and discard.

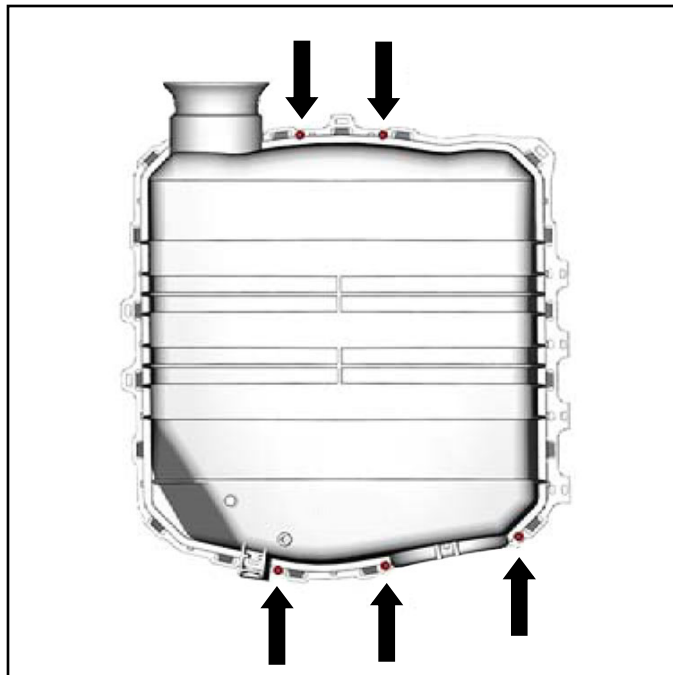
Disconnect fuel tank filler hose and breather hose from filler neck. **TIP:** Place a shop rag inside open end of fuel tank filler hose and move hose aside.

*Carefully* remove upper and lower sections of airbox through front storage compartment.

Replace fuel tank filler hose and vent hose and secure. **NOTE: Remove shop rag from filler hose. Do not overtighten hose clamps.**

### ALL 300/230hp Models

Remove Torx screws at front (2) and rear (3) securing upper and lower sections of airbox together.



Release retaining clip(s) if applicable.

Separate upper half from lower half of airbox by prying apart with a flat blade screwdriver or mini pry bar.

Remove baffles from inside airbox and discard.

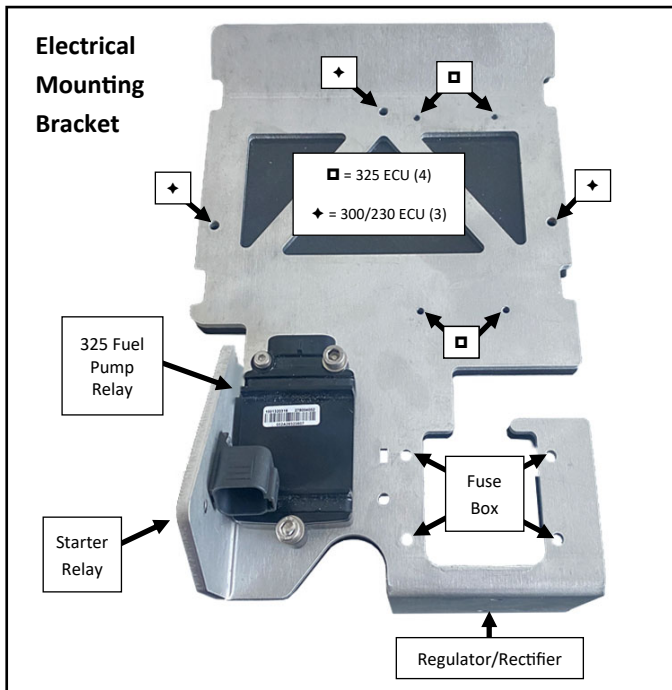
*Carefully* remove upper and lower sections of airbox through engine compartment opening.

### ALL Models

Remove ECU & Regulator/Rectifier from OEM airbox. Discard hardware.

**ALL 325hp models:** Remove fuel pump relay from top, front of OEM airbox. Discard hardware.

## - INSTALLATION INSTRUCTIONS -

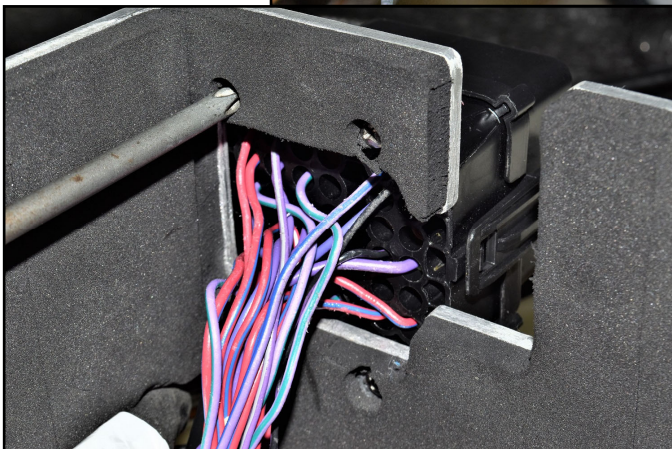
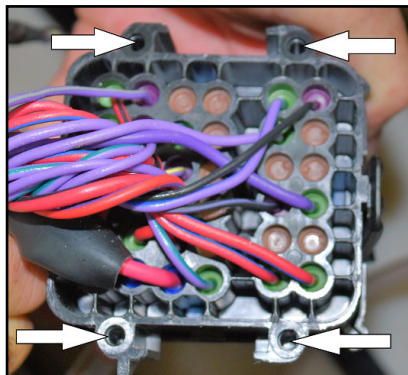


**ALL 325hp Models:** Install fuel pump relay onto supplied electrical mounting bracket and secure with supplied hardware: M6x25 SHCS (2), M6 wave washers (2), M4x25 SHCS (1) & M4 wave washer (1). **NOTE:** Apply blue Loctite to threads. Do not overtighten.

### ALL Models

Place electrical mounting bracket on top of fuel tank.

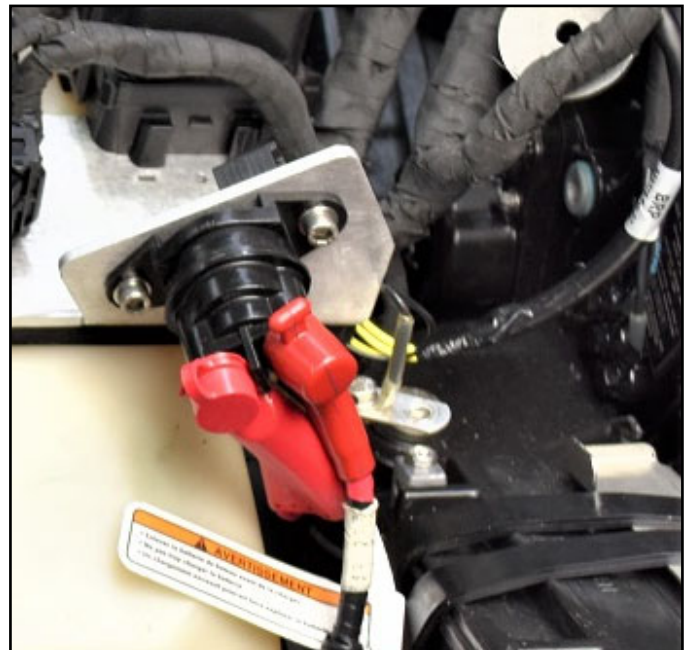
Secure fuse box to electrical mounting bracket using supplied self tapping screws (4). **NOTE:** Ensure leads to starter relay are towards rear of mounting bracket.



Secure regulator/rectifier to electrical mounting bracket using supplied M6x20 SHCS (2) and M6 flat washers (2) so that connectors face left side of craft. **NOTE:** Apply blue Loctite to threads. Do not overtighten.

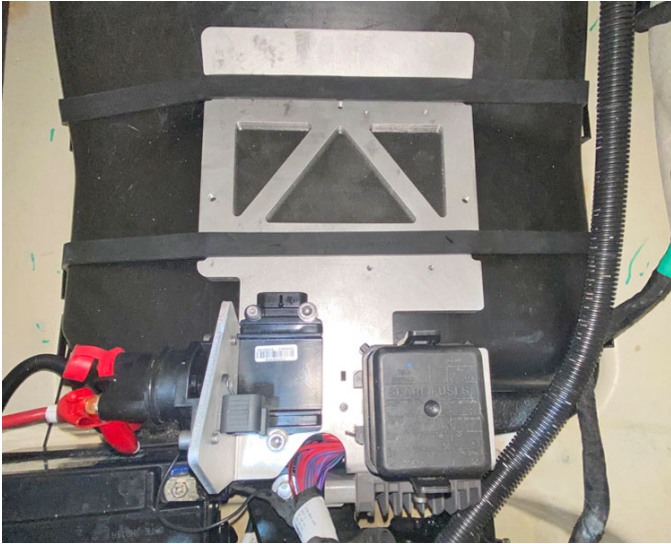


Secure starter relay to electrical mounting bracket using supplied M6x12 SHCS (2) and M6 flat washers (2). **NOTE:** Apply blue Loctite to threads. Do not overtighten.



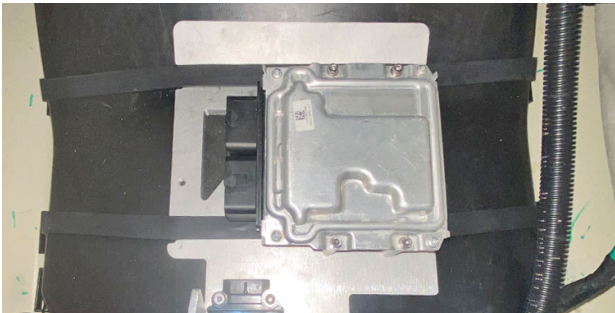
## **- INSTALLATION INSTRUCTIONS -**

Secure electrical mounting bracket to top of fuel tank using supplied straps (2). Clip straps to mounting points on fuel tank that previously secured OEM airbox. **NOTE:** The two rear mounting points will not be utilized.

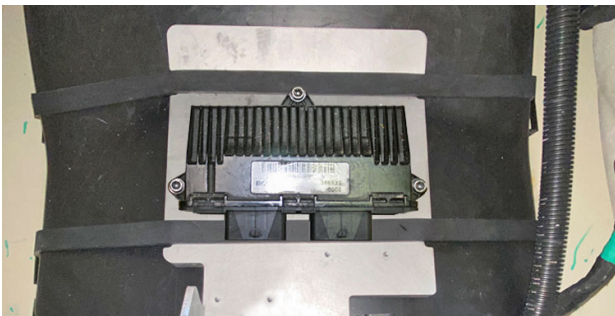


Mount ECU to electrical mounting bracket and secure using supplied hardware.

**325hp Models:** M4x45 SHCS (4), M4 wave washers (4), & white nylon spacers (4). **NOTE:** Place white nylon spacers between ECU and mounting bracket. Electrical connectors will face left side of craft.



**300/230hp Models:** M6x16 SHCS (3), M6 wave washers (3) & black nylon spacers (3). **NOTE:** Place black nylon spacers between ECU and mounting bracket. Electrical connectors will face rear of craft.

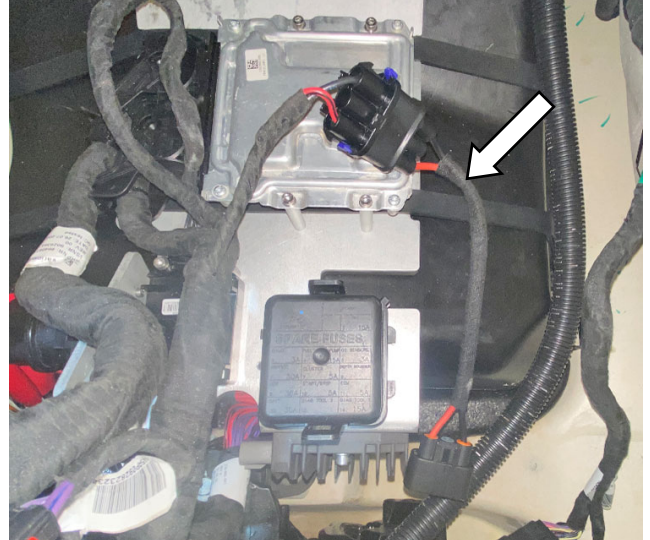


### **ALL Models**

Reconnect fuel pump electrical connector(s).

Begin *carefully* reconnecting remaining electrical connections. **NOTE: DO NOT FORCE ECU connectors together. Allow locking levers to secure connectors to ECU.**

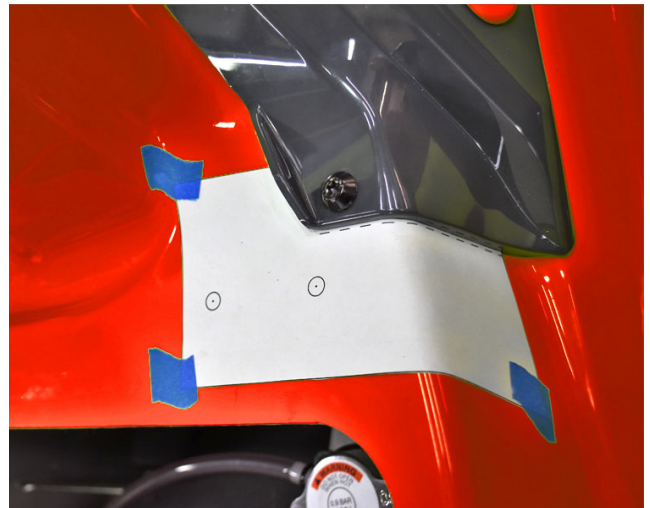
**ALL 325hp Models:** Use supplied extension cable to connect regulator/rectifier. **NOTE: Be sure extension connectors 'lock' together.**



Secure wiring with supplied zip ties.

Install coolant reservoir tank bracket.

**RXT/GTX (ST3) Models:** Affix template on page 9 to hull at front right of engine compartment opening. Mark center for mounting hole locations.

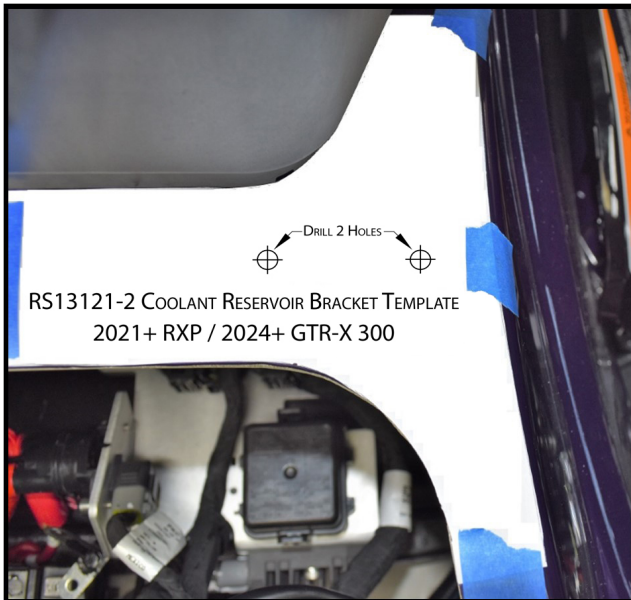


Drill holes using 1/4" drill bit. Holes must be countersunk so that screw heads don't interfere with seat gasket.

Secure tank bracket to hull using supplied M6x20 PFHS (2) & M6 nylock nuts (2).

## **- INSTALLATION INSTRUCTIONS -**

**RXP/GTR Models:** Affix template on page 10 to hull at front right of engine compartment opening. Mark center for mounting hole locations.



Drill holes using 1/4" drill bit. Do not countersink holes.

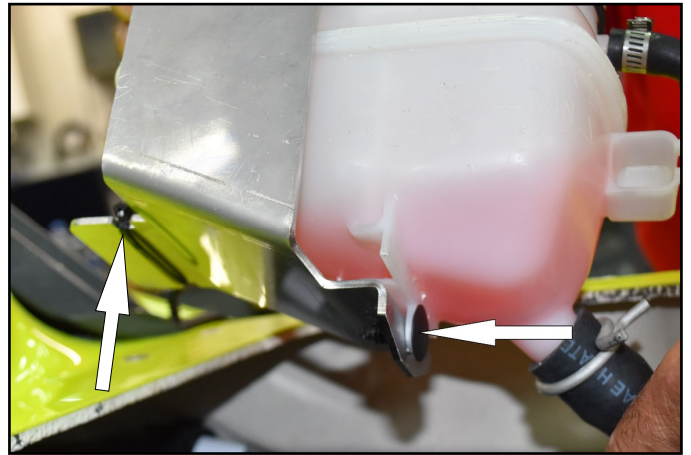
Secure tank bracket to hull using supplied M6x20 BHCS (2), M6 flat washers (2), & M6 nylock nuts (2).

### **ALL Models**

Insert coolant tank into bracket.



Secure to bracket at front using supplied zip tie and at rear using supplied push pin dart. **NOTE: Be sure zip tie is locked into grooves on bracket.**



Secure electrical wiring and coolant hose to fuel rail using supplied zip ties.

Check bilge for rags, tools etc.

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

Replace engine cover, storage bin, bodywork, and/or seat(s) previously removed.

***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 Airbox Relocation Kits carry a 90-day 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.

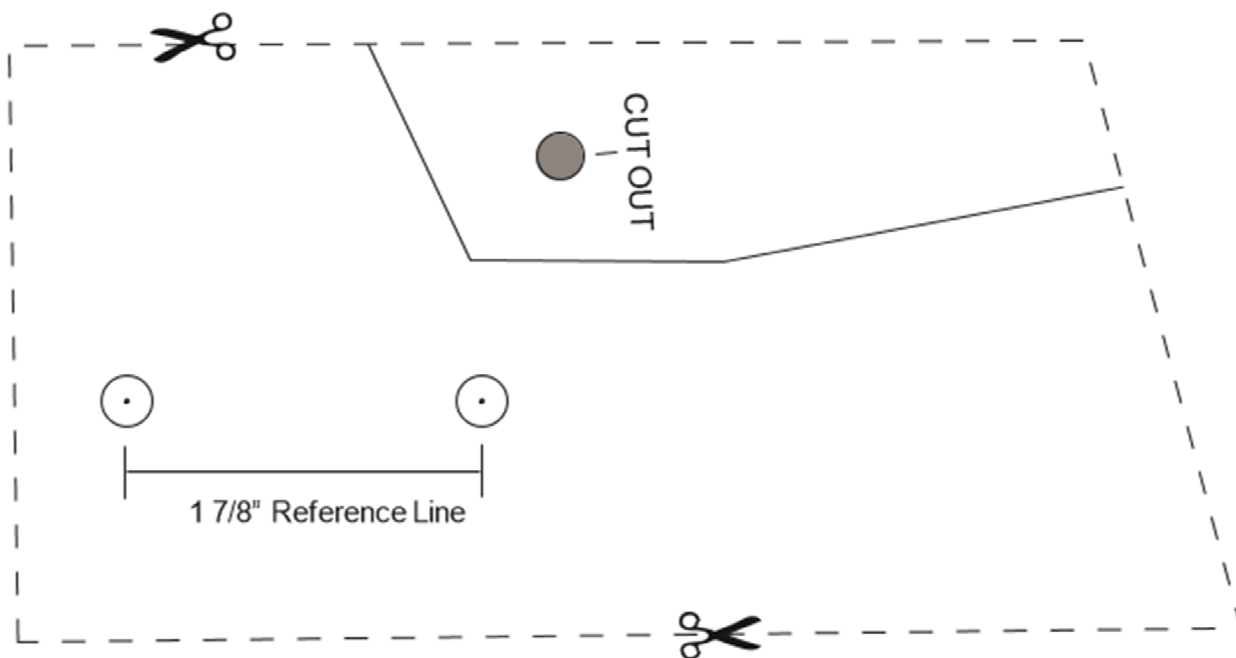
Warranted replacement parts will be returned freight collect.

## Sea-Doo Airbox Removal Kit

RS13220-ARK

### Template for Coolant Tank Bracket - *RXT/GTX (ST3) Models*

Cut around outline and punch out hole as shown.



## Sea-Doo Airbox Removal Kit

RS13220-ARK

### Template for Coolant Tank Bracket - *RXP (T3R)/GTR Models*

Cut around outline as shown.

#### PRINTER CHECK

THIS LINE SHOULD BE 3 INCHES LONG

