



**RIVA RACING**  
PERFORMANCE PRODUCTS & ACCESSORIES

## **'GEN-3' Power Cooler Kit**

**PART# RS1752-PC**

**APPLICATION(S):** 215hp SeaDoo RXP / RXT / GTX-Supercharged



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 clamps, hoses and 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.

Prior to installing this kit you are required to install two other RIVA Performance Products: RIVA O.P.A.S. Block-off Kit first (Pro-Series or Performance) and RIVA Rear Exhaust Kit second (part# RS15050-1). We also recommend the use of a RIVA Performance Power Filter Kit (part# RS13050-06).

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

#### **Required Specialty Tools**

T-25 Star Hex Bit  
E-8 Star Socket

#### **Recommended tools**

Service Manual

#### **Part#**

RS35187 (10-pc set)  
RS90531 (8-pc set)

#### **Part#**

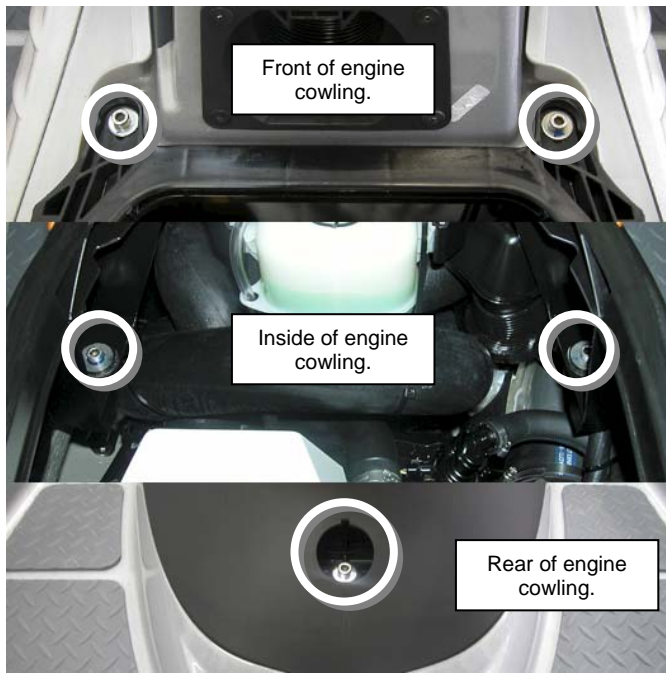
Please Call

### **- INSTALLATION INSTRUCTIONS -**

Connect D.E.S.S. lanyard. Set VTS to fully up position.  
Remove D.E.S.S. lanyard.

Remove seat(s). Remove engine coolant tank from mounting location.

**RXP:** Remove engine cowling (5 bolts total).



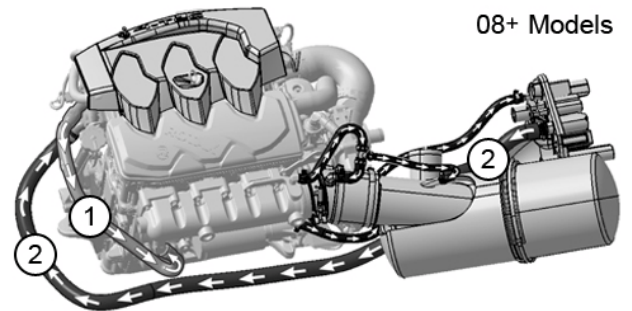
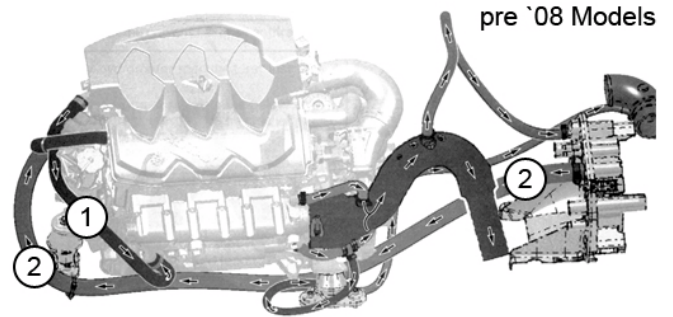
**RXT/GTX-SC:** Remove bolts (4) securing deck beam. Remove top & bottom half of deck beam.



Remove connecting hose joint between supercharger outlet and throttle body.

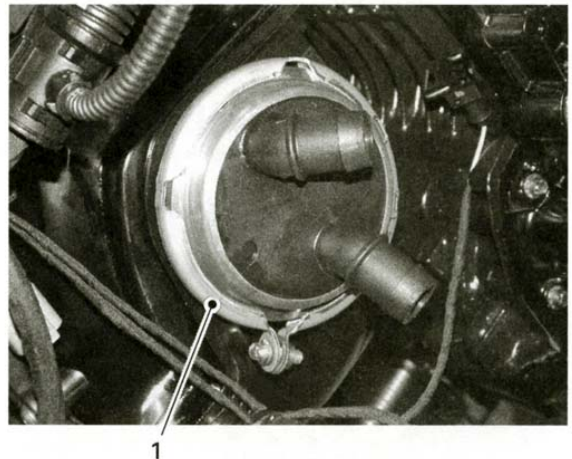
If using a RIVA Blow-off Valve Kit, remove completely (including vacuum line). A longer vacuum line or vacuum cap is supplied with optional RIVA Blow-off Valve Kit or Block-off Kit; which will be installed later.

At front of the intake manifold disconnect the two waterlines connected to stock intercooler fittings.



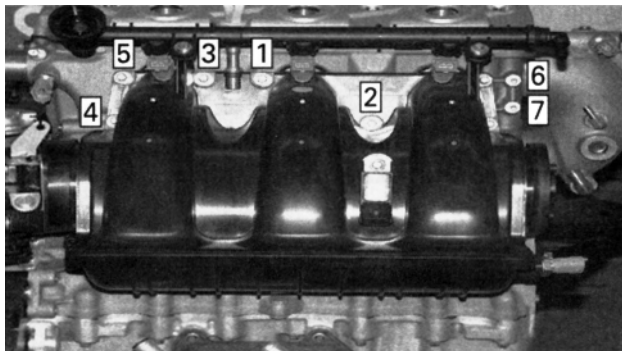
Disconnect Line 1 at front of exhaust manifold and remove completely. Disconnect Line 2 at pump transom and remove completely. **NOTE:** Retain both lines for use when installing supplied intercooler.

At front of intake manifold remove collar<sup>1</sup> securing intercooler to intake manifold housing. Retain collar for use later during installation process.



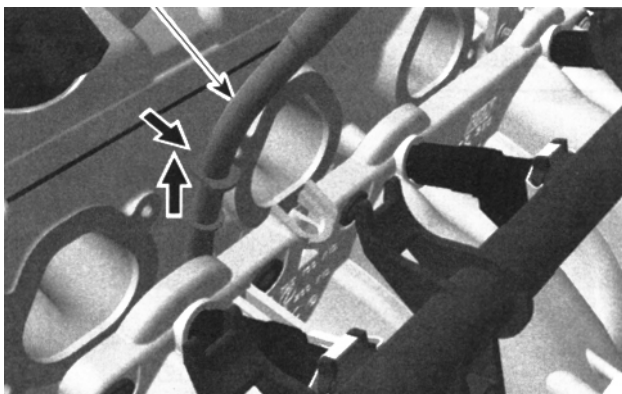
## RXP ONLY

Disconnect ignition coils (spark plug caps) and ECU connectors and move aside. Remove the seven (7) M6x25 Torx® screws securing intake manifold housing to engine.



**NOTE:** If you are using a RIVA Power Filter Kit it will be necessary to remove the filter element. Be sure to cover Power Filter tube inlet to prevent debris from entering supercharger.

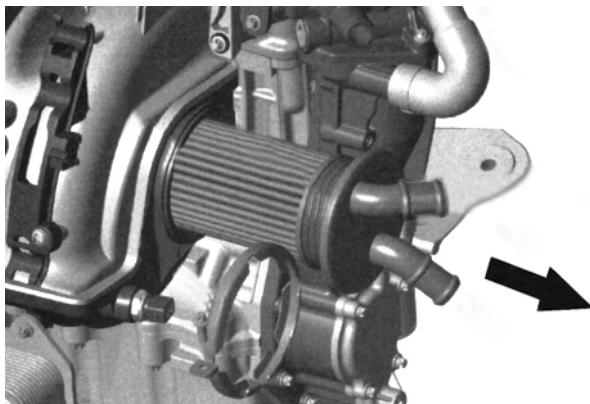
Carefully pry top of manifold housing away from engine by moving top portion towards right side of craft.



**NOTE:** You are not to remove housing completely. Do not lift or pull upward on intake manifold housing. Take care not to dislodge oil dipstick tube.

## ALL MODELS

Remove stock intercooler from intake manifold by pulling forward towards front of craft to remove.



## RXP ONLY

Allow intake manifold housing to relax against engine. Replace the seven (7) M6x25 Torx® screws previously removed and torque to 6 N•m (53 lbf•in).

**NOTE:** Use blue Loctite. Do not replace ignition coils and ECU connectors if you plan to install a Blow-off Valve.

## ALL MODELS

Install supplied aluminum block-off (with o-ring) into opening at front of intake manifold housing left when stock intercooler was removed. Secure with collar removed in step 6. **NOTE:** Apply a thin layer of waterproof grease onto o-ring before installing block-off.

## RXP ONLY

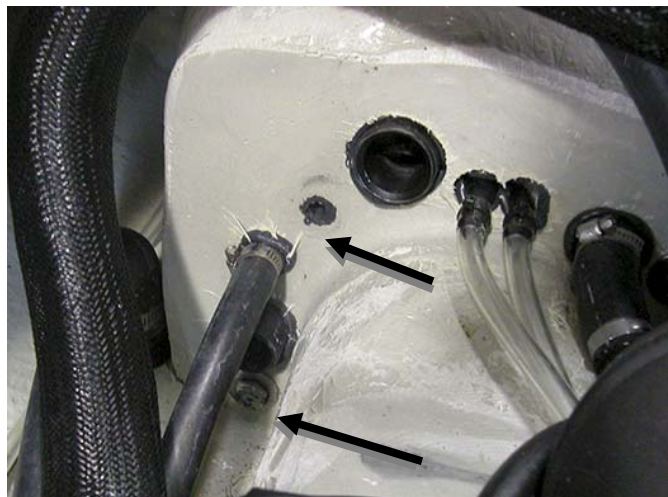
At pump disconnect VTS rod from VTS shaft. Remove rubber boot sealing VTS motor shaft. Remove nut securing VTS motor assembly to hull.



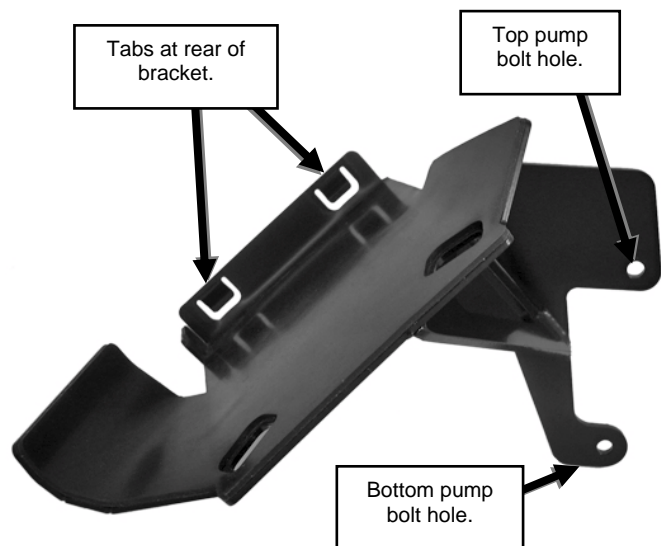
Inside hull remove VTS from thru-hull fitting and set aside.

## ALL MODELS

Inside rear of craft at right side of pump transom remove the two M10 bolts and washers securing pump support to hull.

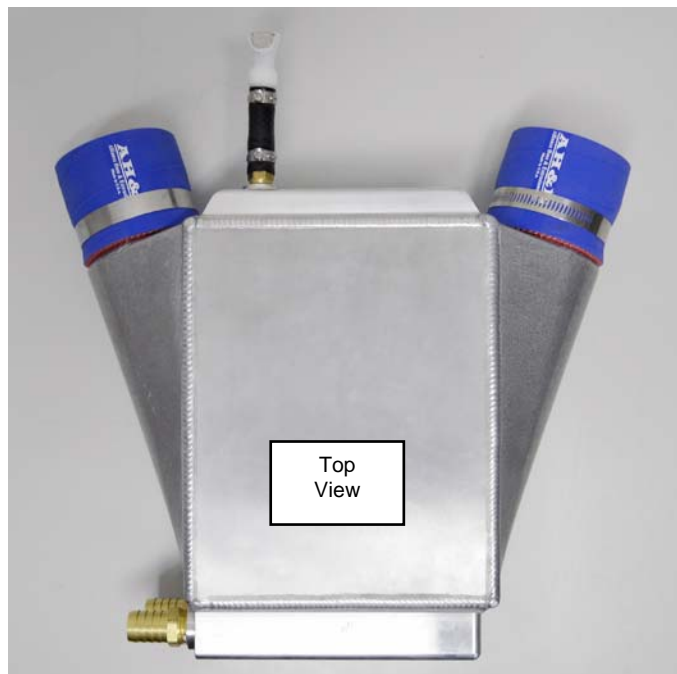


Install supplied intercooler mounting bracket and secure using OEM bolts.



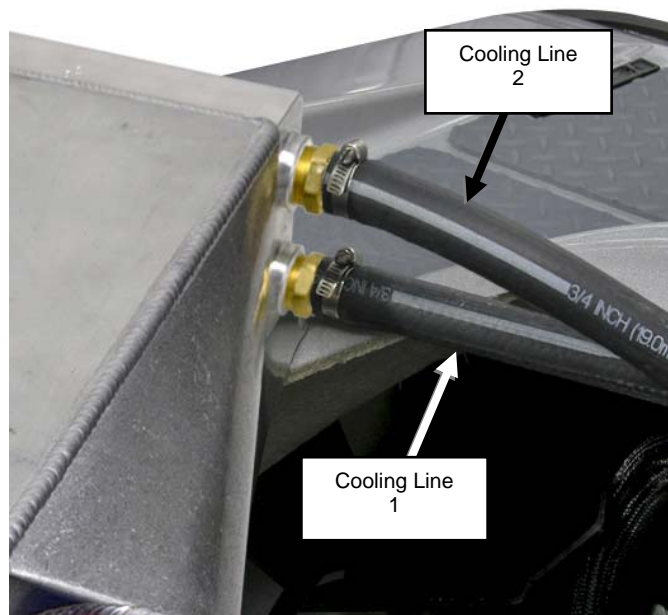
**NOTE:** Apply red Loctite to bolts. Torque bolts to 23 ft•lb / 31 N•m.

Install two of the supplied silicone couplers onto intercooler inlet and outlet flanges and secure using supplied hose clamps.



**NOTE:** Do not over tighten clamps.

Using the waterline previously removed between OEM intercooler and exhaust manifold (Line 1), connect straight end to lower fitting at rear of supplied intercooler and secure using OEM hose clamp. Using the waterline previously removed between transom and stock intercooler (Line 2), connect either end to upper fitting on supplied intercooler and secure using OEM hose clamp.



**NOTE:** Do not over tighten clamps.

Secure ends of supplied intercooler mounting straps to tabs at rear of intercooler relocation bracket. (see illustration opposite top) Slide intercooler onto bracket. Secure straps to tabs under front edge of relocation bracket so they criss-cross each other.



Route loose end of Line 1 towards water inlet fitting at pump transom. Install and secure using OEM hose clamp. Route loose end of Line 2 towards left side of engine, then forward and connect to barbed fitting at underside of front of exhaust manifold. Secure using OEM hose clamp. **NOTE: Be careful not to kink hoses. It may be necessary to trim excess hose for proper fit. Do not over tighten clamps.**

#### RXP ONLY

Replace VTS motor assembly into thru-hull fitting making sure rubber grommet at bottom of housing is installed onto VTS mounting bracket.

At pump replace and secure VTS motor nut. Replace and secure rubber boot sealing VTS motor shaft. Reconnect VTS rod.

#### All MODELS

Loosely place one supplied hose clamp over each coupler on Power Cooler.

Loosely place two supplied hose clamps over throttle body inlet.

Loosely place two supplied hose clamps over supercharger outlet.

#### Reference Image – Aluminum Tubes



Install one supplied silicone coupler completely onto motor end of intercooler to throttle body tube. **TIP:** Apply a generous amount of glass cleaner to aluminum tube and inside of coupler. Install tube between intercooler and throttle body. Secure hose clamp at intercooler side of tube. Slide opposite coupler onto throttle body inlet and secure clamps.



**NOTE: Do not over tighten clamps.**

Install remaining supplied silicone coupler completely onto motor end of supercharger to intercooler tube. **TIP:** Apply a generous amount of glass cleaner to aluminum tube and inside of coupler. Install tube between intercooler and supercharger. Secure hose clamp at intercooler side of tube. Slide opposite coupler onto supercharger outlet and secure clamps. **NOTE: Do not over tighten clamps.**



Install recommended **RIVA Blow-off Valve Kit** onto supercharger to intercooler tube using instructions supplied with B.O.V. kit.

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@rivamotorsports.com](mailto:tech_support@rivamotorsports.com).

### **Limited Warranty**

RIVA Power Cooler Kits carry a 30-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.