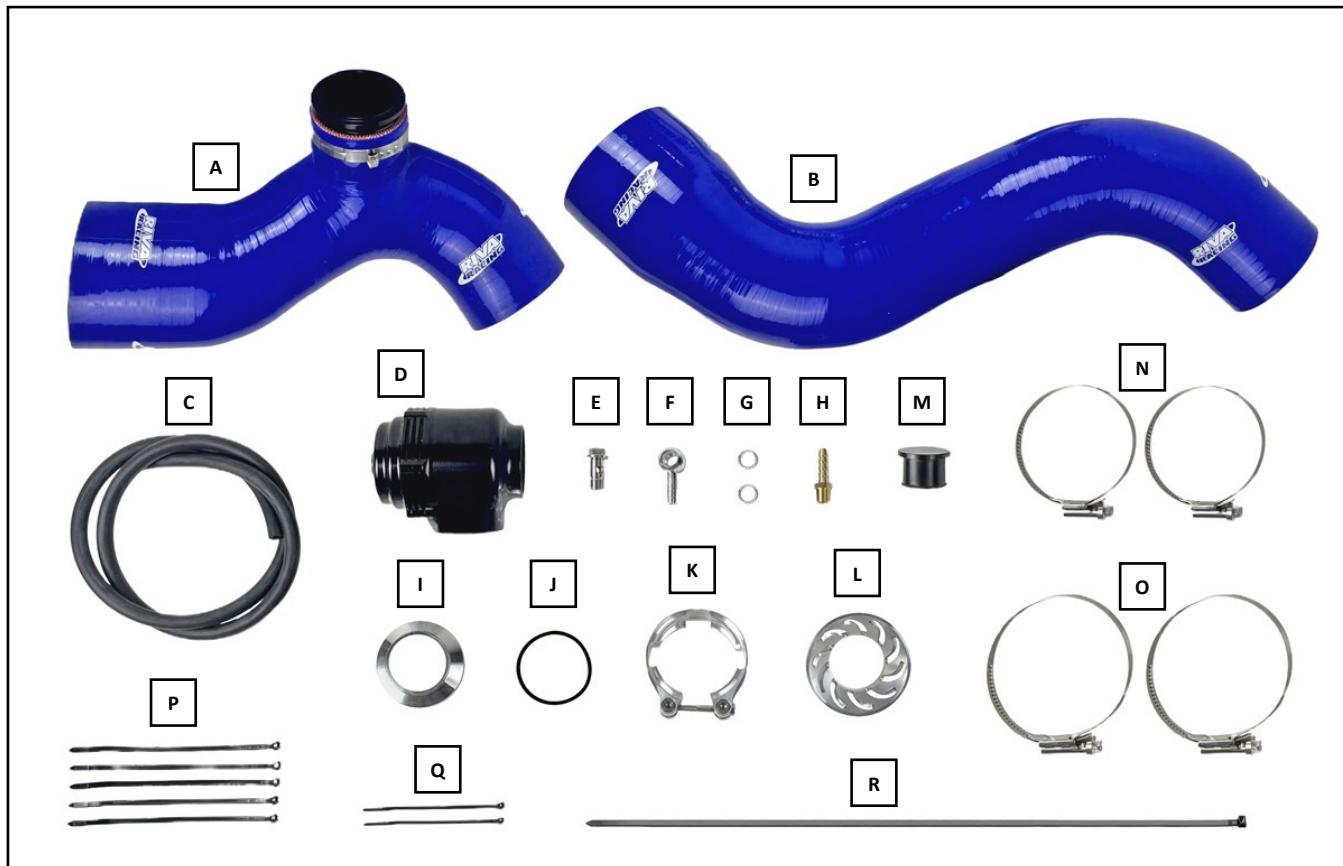




RIVA RACING
PERFORMANCE PRODUCTS & ACCESSORIES

Intercooler Tubing Upgrade Kit with TiAL Blow-off Valve

PART# - RS17220-TK-TV



Applications:

Sea-Doo RXT-X / RXP-X 325

Approximate Installation Time: 2 HR.

Recommended Specialty Tools:

N/A

Part

N/A

Required Items to Connect Vacuum Line:

RIVA Vacuum Port Adapter

- or -

RIVA Intake Manifold Upgrade Kit

Part

RS12050-VPA

RS12220-IMUK

Required Items:

RIVA Catch Can/Engine Breather Kit

Part

RS19050-BCC-6



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COMPONENT LIST

ITEM	DESCRIPTION	RIVA PART #	QTY	NOTES
A	Tube 'A'	GT-RS17220-A1	1	
B	Tube 'B'	GT-RS17220-B	1	
C	Vacuum Hose	27043-1	3	Sold by the foot
D	TiAL QRJ Blow-off Valve (3psi)	004727	1	
E	Banjo Bolt		1	Included with TiAL BOV
F	Banjo Fitting		1	
G	Sealing Washer		2	
H	1/4" Barbed X 1/8" NPT Straight Fitting	220C	1	
I	TiAL BOV Mounting Flange	004781	1	
J	O-ring		1	
K	TiAL Q-band Clamp Assembly	001624	1	
L	TiAL BOV Diffuser Outlet Flange	004806	1	
M	Block-off Plug	QCA-RS17220-BVBO-OE	1	
N	Hose Clamp (55~75mm)	53404-0075-052	2	
O	Hose Clamp (70~90mm)	53404-0090-052	2	
P	Medium Zip Tie (5in)	TY24MX	5	
Q	Small Zip Tie (3in)	TY23MX	2	
R	Large Zip Tie (14in)	TY28MX	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.

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.

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

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

*** * * 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 -

Remove seat(s).

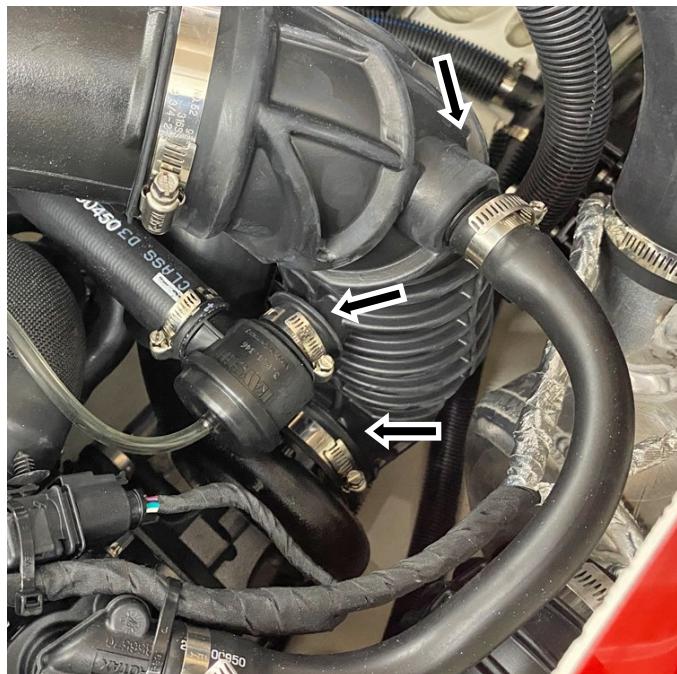
Remove engine service cover (13 Torx screws).

Remove large zip tie (1) securing plastic air intake tube to forward rubber elbow. Unclip straps (2) securing plastic air intake tube to intake manifold. **NOTE: Take care not to dislodge plastic clips under air intake tube.**



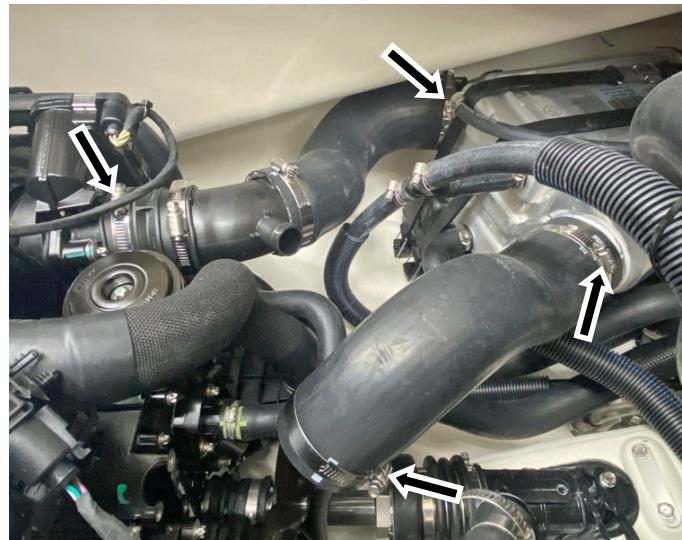
Loosen hose clamp securing OEM blow-off valve to rubber air intake hose. Loosen hose clamp securing rubber air intake hose to supercharger inlet.

Remove (pull) engine vent hose with barbed fitting from rubber air intake hose.



Remove plastic air intake tube and rubber air intake hose assembly and set aside.

Loosen clamps (4) at each end of OEM intercooler hoses. Remove hoses and OEM blow-off valve and discard.



NOTE: Hose with OEM blow-off valve omitted for photo purposes only.

Thoroughly clean flanges on intercooler, throttle body and supercharger with a non-residual cleaner.

INTERCOOLER TUBE INSTALLATION

NOTE: The tubes supplied with this kit have different inner diameters at each end. The hose clamps supplied with this kit to secure the tubes are different sizes as well. The ends of the tubes with the larger inner diameter are to be installed onto the intercooler and secured with the larger (70~90mm) diameter hose clamps. Verify each end of supplied tubes and size of clamps prior to proceeding.

Place smaller diameter hose clamps over smaller diameter end of supplied tubes. Please larger diameter hose clamps over larger diameter end of supplied tubes.

Install supplied tube *without* blow-off valve adapter (Tube B) between intercooler and throttle body. Do not tighten clamps.

Install supplied tube *with* blow-off valve adapter (Tube A) between intercooler and supercharger. Do not tighten clamps.

TIP: Apply glass cleaner to inside of tubes to ease installation.

SEE NEXT PAGE FOR INSTALLATION IMAGE

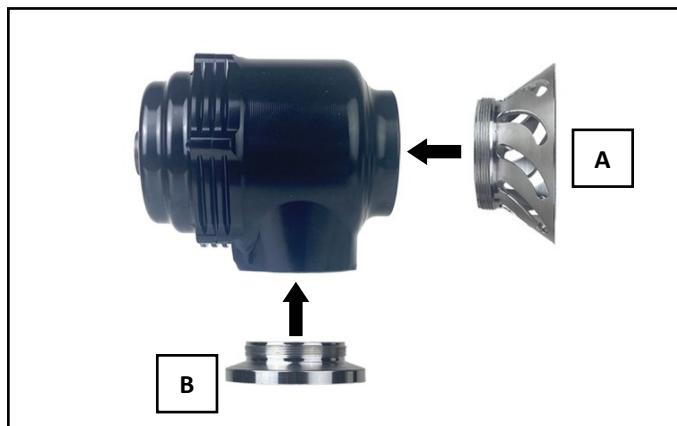
Verify tubes are installed onto intercooler flanges, throttle body flange and supercharger flange completely. **NOTE:** Intercooler position may need adjustment to achieve proper tube alignment.

Slide hose clamps into position and secure. **NOTE: Do not overtighten clamps.**



BLOW-OFF VALVE ASSEMBLY

Apply one drop of blue Loctite to threads on blow-off valve Diffuser Outlet Flange (A). Carefully thread into TiAL Blow-off Valve clockwise.



Apply one drop of blue Loctite to threads on blow-off valve Mounting Flange (B). Carefully thread into TiAL Blow-off Valve clockwise.

BLOW-OFF VALVE INSTALLATION

Remove allen-screw from supplied Q-band clamp (included in TiAL Blow-off Valve Kit). **NOTE: Take care not to drop or lose fittings in Q-band clamp.**

Carefully spread Q-band clamp apart enough to place it onto adapter in Tube A.

Apply a thin layer of grease to o-ring (included with TiAL Blow-off Valve). Place o-ring on top of blow-off valve adapter.

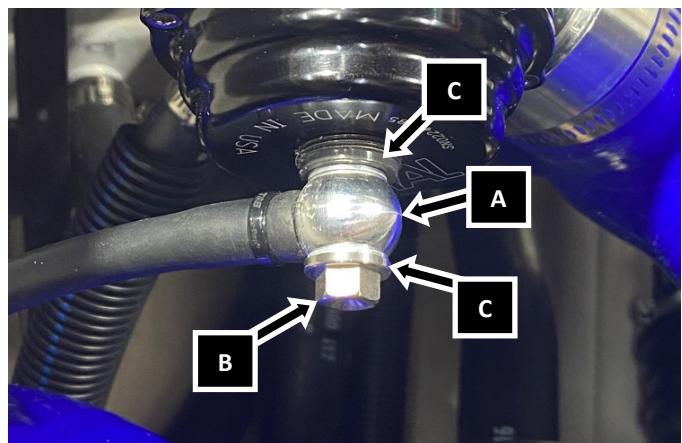
Carefully spread v-band clamp apart enough to place supplied blow-off valve onto adapter. **Note: Be sure o-ring is properly seated on adapter.**



Installation of this kit requires installation of RIVA Vacuum Port Adapter Kit (RS12050-VPA) or equivalent. Follow those installation instructions before continuing.

IMPORTANT: DO NOT attempt to reuse original vacuum hose and/or original intake manifold vacuum line fitting with supplied vacuum hose.

Install vacuum hose fitting (banjo fitting A, banjo bolt B, and sealing washers C) included with TiAL Blow-off Valve Kit into front of blow-off valve. **NOTE: Place one sealing washer on each side of banjo fitting. Do not tighten. Do not apply thread sealant.**

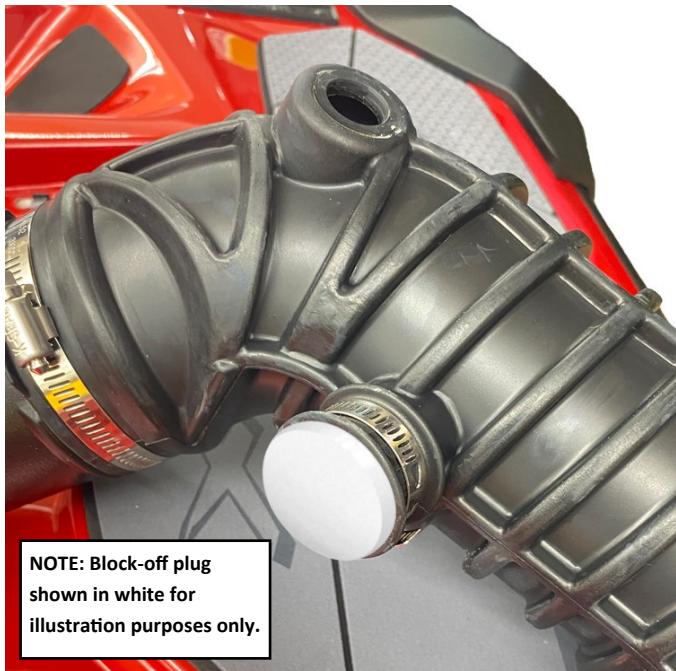


Orient blow-off valve so that vacuum fitting is facing motor and diffuser outlet flange is facing rear of craft. Replace v-band clamp bolt and secure. **NOTE: Apply blue Loctite to bolt. Do not overtighten bolt.**



Orient vacuum hose fitting so that vacuum hose routes between blow-off valve and intake manifold fitting without becoming pinched. Secure banjo bolt. **NOTE: DO NOT overtighten banjo bolt.**

Install supplied Block-off Plug into original air intake hose where original blow-off valve was located if you are retaining the stock air intake system. **NOTE: Do not overtighten clamp.**



Thoroughly clean inlet flange on supercharger and inside of rubber OEM intake hose with a non-residual cleaner.

Reinstall original air intake tube and hose. Secure plastic tube to forward rubber elbow with supplied large zip tie and OEM straps (2). Secure at supercharger with original hose clamp. **NOTE: Do not overtighten hose clamp.**

Replace original engine vent hose if you are not installing a Catch Engine/Engine Breather Kit.

Check bilge for rags, tools etc.

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

Replace engine service cover (13 Torx screws).

Replace seat(s).

Remember, the water belongs to everyone.

Please ride responsibly and respect the environment!

Technical Support

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

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

Limited Warranty

RIVA Intercooler Tube Upgrade 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.