

### Sea•Doo Supercharger Blow-off Valve Kit PART# - RS1750-BV

#### APPLICATION(S): RXP, RXT & GTX-SC

#### **Required tools**

Oetiker Pliers T-25 Star Hex Bit E-8 Star Socket Side cutters <u>Part#</u> C-48550347 RS35187 (10-pc set) RS90531 (8-pc set) N/A

# Recommended tools

<u>Part#</u> N/A

## \*\*\* NOTE: Allow craft's engine to cool thoroughly before performing installation. \*\*\* - INSTALLATION INSTRUCTIONS -

#### 1. Remove D.E.S.S. lanyard and disconnect battery cables.

#### **RXP Models Only:**

- 2a. Unclip engine coolant overflow tank, remove from engine compartment cowling and lay on top of engine. Take care not to tip overflow tank allowing coolant to drain.
- 2b. Remove engine compartment cowling by first removing the two forward-most M10 socket head cap bolts and rear-most M10 socket head cap bolt under Bombardier logo insert completely (see illustration #1). Loosen the two remaining M10 socket head cap bolts on lower inside rear edge of engine compartment cowling. (see illustration #2)

#### GTX-SC Models Only:

- 3a. Unclip engine coolant overflow tank, remove from engine compartment cross-section and lay on top of engine. Take care not to tip overflow tank allowing coolant to drain.
- 3b. Completely loosen the four M8 bolts holding engine compartment cross section in place. Remove both top and bottom halves of engine compartment cross-section supports. Leave air intake duct attached. (see illustration #'s 3 & 4)
- 4. Remove oil level gauge (dip stick). Remove plastic cover on top of valve cover. Replace oil level gauge (dip stick).
- 5. Disconnect the two wiring harness connectors from ECU and move aside. (see illustration #'s 5 & 6)
- 6. Remove ECU module from ECU mounting plate and set aside. (see illustration #6) **NOTE: You will need a star** socket size E-8 (see Required Tools list above). This can be purchased through RIVA Racing's parts department.
- 7. Remove ECU module mounting plate and move aside. (see illustration #7) Take care not to damage wires or throttle cable. **NOTE: You will need a star hex bit size T-25 (see Required Tools list above). This can be purchased through RIVA Racing's parts department.**
- 8. Remove the stock connecting joint hose between the supercharger and intake manifold and discard. (see illustration #7) Thoroughly clean surfaces of supercharger outlet and intake manifold inlet and inside of RIVA Blow-off Valve connecting joint hose. NOTE: Use only a non-residual cleaner such as PJ-1 Supercleaner. This can be purchased through RIVA Racing's parts department.
- 9. Install RIVA Blow-off Valve connecting joint hose between supercharger and intake manifold and secure using supplied oetiker clamps. (see illustration #8) Crimp oetiker clamps using oetiker clamp pliers only. NOTE: It may be necessary to use a lubricant to ease installation of connecting joint hose. Use only window cleaner. Do not use any other lubricants or solvents.

- 10. Locate the threaded boss on the center intake track used to secure the ECU mounting plate. Using the supplied 3/32" drill bit carefully and slowly drill straight into the end of the protrusion beside the threaded boss. (see illustration #9) NOTE: The material you are drilling into is made of plastic. Do not push or force drill bit.
- 11. Inspect newly created hole for rough edges or protruding plastic. Clean any rough edges or filings left from the drilling procedure.
- 12. Install supplied vacuum line onto drilled fitting and secure using a supplied zip tie. Route vacuum line along wiring harness under ECU towards blow-off valve. Secure open end to fitting on top of blow-off valve with a supplied zip tie. Secure middle section of vacuum line to OE wiring harness under ECU with a supplied zip tie. (see illustration #10) **NOTE: Do not over tighten zip ties.**
- Replace ECU mounting plate, ECU and reconnect wiring harness connectors in reverse order of steps 5~7.
  NOTE: Carefully install wiring harness connectors so as not to bend connecting pins. Use blue Loc-tite on threads of bolts securing ECU mounting plate and ECU. Do not over tighten bolts.

#### RXP Models Only:

- 14a. Replace engine compartment cowling in reverse order of Step '2b'. NOTE: Use BLUE Loc-tite. Do not over tighten bolts.
- 14b. Install engine coolant overflow tank into engine compartment cowling. Take care not to tip overflow tank allowing coolant to drain.

#### GTX-SC Models Only:

- 15a. Replace bottom half of engine compartment cross-section support with air intake duct attached. (see illustration #4) This piece mounts under edge of engine compartment flange. Replace top half of engine compartment cross section and secure the four M8 bolts. (see illustration #3) NOTE: Use BLUE Loc-tite. Do not over tighten bolts.
- 15b. Install engine coolant overflow tank into rear of engine compartment cross-section. Take care not to tip overflow tank allowing coolant to drain.
- 16. Installation is now complete. Thoroughly inspect engine compartment and bilge for tools, rags, parts, etc. Reconnect battery cables and run craft out of water using flush kit.

NOTE: Sea•Doo and RIVA both strongly recommend the use of premium octane (92+) pump fuel in your craft.

### Remember, the water belongs to everyone. Please ride responsibly!

#### **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

#### **Warranty Information**

RIVA Supercharger Blow-off Valve 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 option, 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 must accompany all warranty claims.

Warranted replacement parts will be returned freight collect.

Sea•Doo Supercharger Blow-off Valve Kit PART# - RS1750-BV - INSTALLATION IMAGES -



Illustration 1



Illustration 2



Illustration 3



Illustration 4



Illustration 5



Illustration 6





Illustration 8

Illustration 7



Illustration 9



Illustration 10



Illustration 11