

Product Name:	WRX Dual port
Product Description:	Fits WRX 01 – 07, WRX STI 01 – 08, Forester XT 06'
Product Number:	TS-0205-1015



**IMPORTANT NOTES:**

- Please thoroughly read and understand these instructions before commencing this installation.
- The thread on the cap for the vacuum source is AN#3. The standard swivel nipple can be changed to a AN#3 fitting if desired.

**RECOMMENDATIONS**

- **Turbosmart recommends that your Blow off valve (BOV) is fitted and adjusted by an appropriately qualified technician**
- **Turbosmart recommends that a boost gauge be permanently fitted to the vehicle**

## HOW TO INSTALL YOUR BOV

Please check that the following items have been provided in your WRX STI 08 Dual port kit.

Quantity	Description	Use
1	WRX STI 08 Dual port BOV	Model Specific blow off valve
1	Blanking plug	To blank off a port to convert the BOV to full atmospheric or plumb back
1	½" straight hose joiner	Re-route breather hose
1	½" rubber hose	Breather hose
1	½" tee piece joiner	Re-route breather hose
1	6mm Hose clamp	To secure vacuum hose onto vacuum nipple
1	Gasket	To seal the BOV to the intercooler pipe

1. Remove the standard BOV from the intercooler by removing the two bolts. Disconnect the vacuum line to the top of the standard BOV.



2. Using pliers, carefully clamp onto the spring clamp on the plumb back hose and pull the BOV off the hose. Then carefully remove the clamp completely.



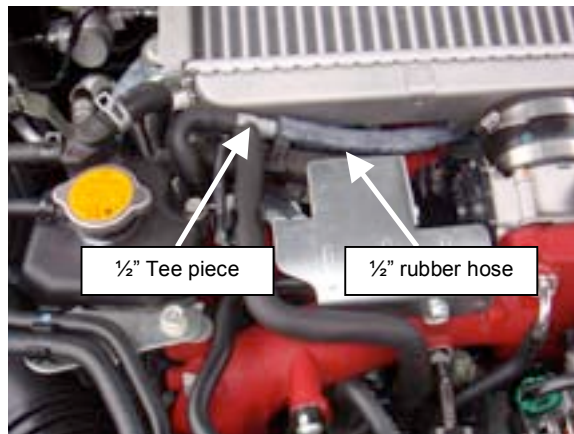
3. Remove the plumb back fitting on the back of the standard BOV and install it onto the Turbosmart BOV using the standard screws.



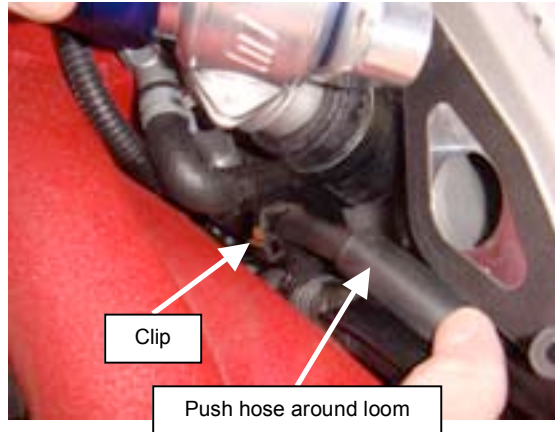
4. Remove the standard hose breather



5. Using the provided  $\frac{1}{2}$ " tee piece, connect the standard oil breather lines on the left hand side of the intercooler in the orientation shown in the picture below and run the provided  $\frac{1}{2}$ " hose under the intercooler to the oil breather line on the other side of the intercooler, using the provided  $\frac{1}{2}$ " straight joiner to join the rubber hose to the existing breather line on the right hand side.



6. Push the plumb back side of the Turbosmart BOV onto the standard return pipe and secure the hose with the provided hose clamp. Unclip the hose shown in the picture from the bracket and move the line under the wiring loom that supports it.



7. Secure the BOV onto the intercooler with the standard bolts and replace the vacuum line to the top of the BOV.



8. Start the car and check for leaks.



### IMPORTANT NOTES ON SETTING THE SPRING TENSION

- Adjustment to the BOV is made by rotating the cap. To increase spring tension rotate in the direction of hard, marked on the top of the cap
- Rotate the cap in the direction of soft to decrease the spring tension – CAUTION Do not rotate the cap beyond the red indicator groove
- With the engine at idle the exhaust ports should be closed off by the piston – the piston should be hard against the seat and not floating or moving

- Free rev the engine and back off quickly, the engine should return to normal idle speed – if the engine drops below idle or stalls increase the spring tension by half a turn
- Repeat this process until the engine free revs and returns to normal idle speed
- Test drive the car and ensure that when decelerating or changing gears that the engine does not backfire or stall. If backfiring or stalling is noticed then check all connections made during the installation, otherwise increase the spring tension

## TROUBLE SHOOTING

The following points should be checked if you find that your engine is dipping below normal idle, stalling or if the BOV is functioning poorly. Please note, the following checks will cure 99% of problems experienced with a BOV.

- Check the vacuum hose for splits, cracks, loose connection, kinking or any obstruction – old or fatigued hose may collapse under vacuum causing an obstruction.
- With the engine running remove the vacuum / boost hose from the nipple in the cap of the BOV, there should a loud hissing sound. The engine should idle poorly, double check by covering the end of the hose with your finger – otherwise the hose is blocked.
- Check to see if the BOV is blocked or contaminated with dirt or debris.
- Ensure that the vacuum / boost source is not shared and that the vacuum source is directly from the inlet manifold.
- Check the seal between the intercooler flange and the BOV. Make sure the supplied gasket is installed and the BOV Flange is secured on the intercooler flange with the two factory bolts.
- Ensure the spring clamps are secured on silicon hoses and fittings.

# *The Turbosmart Pledge*

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**Limited Warranty:** Turbosmart warrants its products to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Turbosmart to the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Turbosmart be liable for special or consequential damages. This warranty is only valid on products purchased from Turbosmart Authorized Dealers.

**Service:** After the warranty period has expired, repair service is charged based on a minimum and maximum charge rate. (Contact Customer Service for current rate).

**Returns:** When returning a Turbosmart product for repair, it must be accompanied by a completed Customer Warranty Form and RMA number. To access this form please go to our website [www.turbosmartonline.com](http://www.turbosmartonline.com) and you will find it on the Downloads page.

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Turbosmart warrants the quality of the products it designs and manufactures to be free of defects in material and workmanship. This limited warranty is extended only to the original purchaser and may not be transferred or assigned. This limited warranty applies to any product, which after careful inspection by Turbosmart, after receipt of the product from our authorized reseller, is found to have a defect in either material or workmanship. Any modifications to the product will void any and all warranties and will not be exchanged. Before installation, check new car warranty. Turbosmart is not responsible for voiding any original manufactures warranty.

All warranty claims must be returned to the nearest Turbosmart Office, you must return the product and sales receipt, at your own expense, accompanied by the Customer Warranty Form stating the reason for the claim. Proof of purchase must be provided with any warranty claim and will be verified with the authorized reseller from which the product was purchased.

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**Happy motoring!  
The Turbosmart Team.**