

### IMPORTANT NOTES ON FITTING YOUR BOV PULSAR GTiR ADAPTOR

Turbosmart recommends that your Blow Off Valve (BOV) and Adaptor kit is fitted by an appropriately qualified technician.

### ADAPTOR KIT CONTENTS

Please check that the following items have been provided in your Pulsar GTiR adaptor Kit.

Quantity	Description	Use
1	GTiR Adaptor	Designed to fit the Pulsar GTiR factory turbo hose
1	29mm Blanking Plug	To blank off the factory return hose
1	50mm hose clamp	Secures the GTiR Adaptor to the turbo hose
1	Pre-assembled tee-piece and Silicon hose assembly	Connects the 4 throttle body vacuum fittings to the Turbosmart BOV fittings
1	6mm hose blank	To blank off the factory vacuum/boost line
1	6mm hose spring clamp	Secures the 6mm blanking plug on the factory vacuum/boost line
5	5mm hose spring clamp	Secures the 4 throttle body vacuum fittings and Turbosmart BOV fitting
1	Atmospheric spring	Recommend when using an atmospheric venting Type II or III BOV - see fitting notes following the kit installation instructions

**Note:** This Pulsar GTiR Adaptor readily accepts the following Turbosmart BOVs:

Blow Off Valve Name	Part No.
Blow-off Valve - Vee Port	FG-BOV-002VP
Blow-off Valve - Supersonic	FG-BOV-003SS
Blow-off Valve - Plumb Back	FG-BOV-003PB29
Blow-off Valve - Dual Port	FG-BOV-003DP29

### FITTING YOUR BOV PULSAR GTiR ADAPTOR

**Note:** Please thoroughly read and understand both these instructions and the fitting instructions supplied with your BOV before commencing this installation.

**Step 1.** Undo and remove the 3 bolts on the left hand side of the intercooler cover with a 10mm spanner or socket.



**Step 2.** Undo and remove the 2 bolts on the right hand side of the intercooler cover with a 10mm spanner or socket. Then remove the intercooler cover.



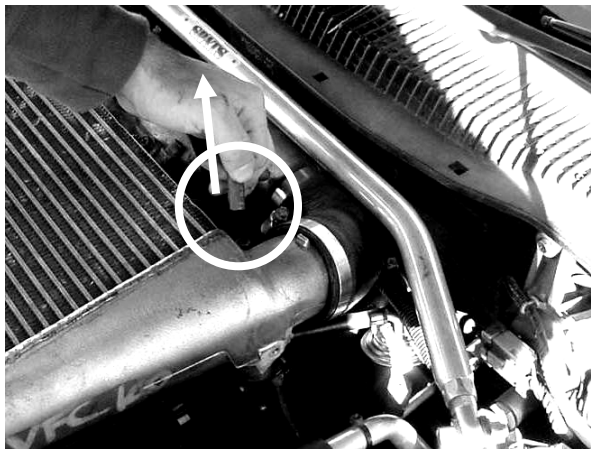
**Step 3.** Using an 8 mm spanner or socket, loosen the bottom factory hose clamp securing the factory hose coupler to the bottom intercooler hose fitting.



**Step 4.** Using an 8 mm spanner or socket, loosen the top factory hose clamp securing the factory hose coupler to the top intercooler hose fitting.



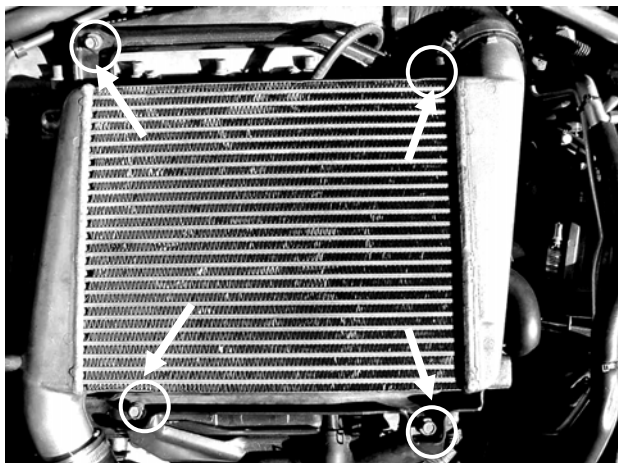
**Step 5.** Disconnect the top intercooler factory boost line from the top right intercooler fitting.



**Step 6.** Disconnect the factory boost line from the bottom right intercooler fitting.



**Step 7.** Undo and remove the 4 bolts on the intercooler bracket with a 12mm spanner or socket.



**Step 8.** Remove the intercooler.



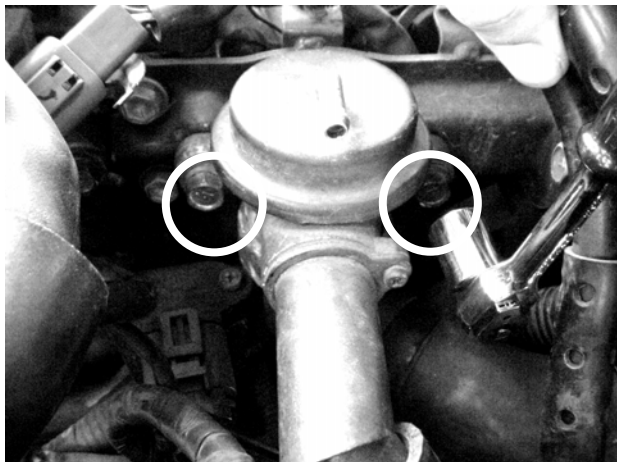
**Step 9.** Locate the factory BOV.



**Step 10.** Disconnect the factory vacuum/boost line from the factory BOV.



**Step 11.** Undo and remove the two nuts securing the factory BOV using a 12mm socket or spanner.



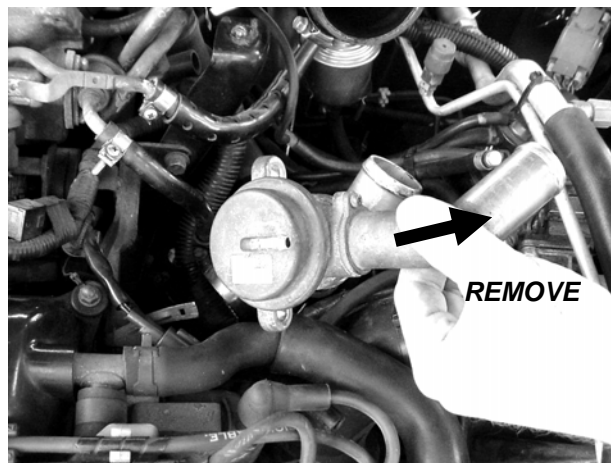
**Step 12.** Release the factory hose spring clamp with a set of long nose pliers and remove the return hose from the factory BOV.



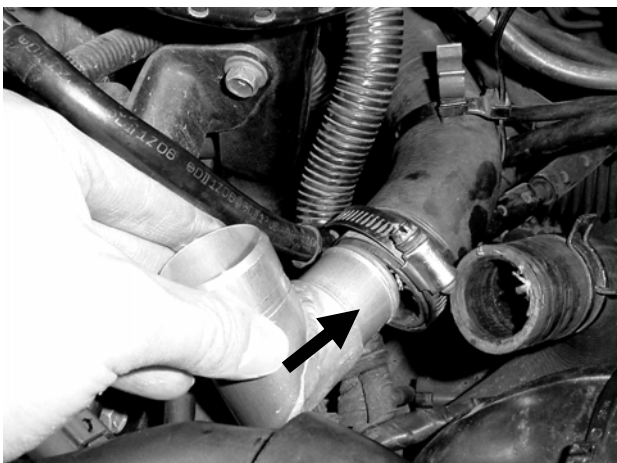
**Step 13.** Undo the factory hose clamp securing the turbo hose to the factory BOV using an 8 millimetre socket. Disconnect the return hose from the factory BOV.



**Step 14.** Remove the factory BOV.



**Step 15.** Insert the 34mm diameter end of the GTiR Adaptor into the factory turbo hose. Secure it with the 50mm constant tension hose clamp supplied using a 7 mm socket or spanner.



**Step 16.** If using a Dual Port or Plumb Back, go to step 17. Otherwise, blank off the return hose with the 29mm Turbosmart plug supplied. Secure the plug with the factory hose spring clamp.



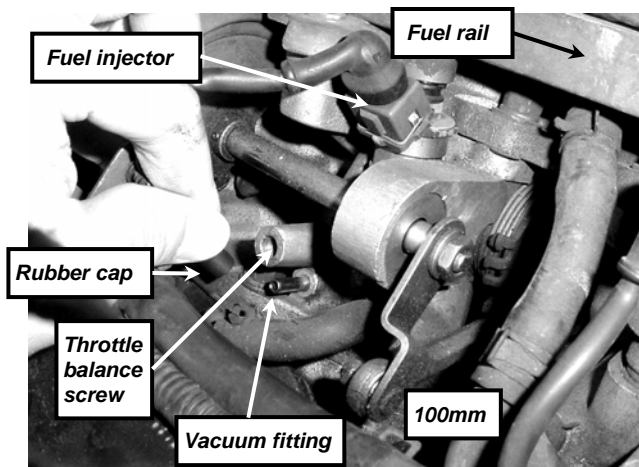
**Step 17.** Install your Turbosmart BOV onto the GTiR Adaptor by following your Turbosmart BOV instructions.



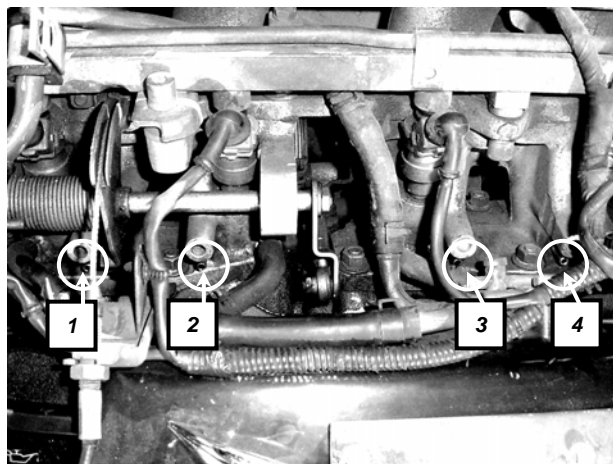
**Step 18.** If you are fitting either a Turbosmart Type III Plumb Back or Dual Port, fit the return hose onto the BOV plumb-back fitting. Secure the fitting with the factory hose spring clamp.



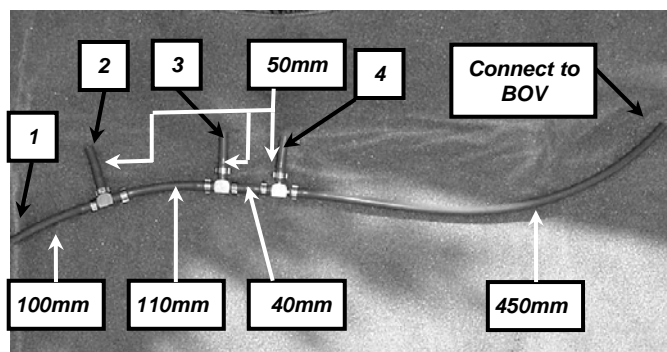
**Step 19.** Remove the four rubber caps on the 4 vacuum fittings on the throttle body.



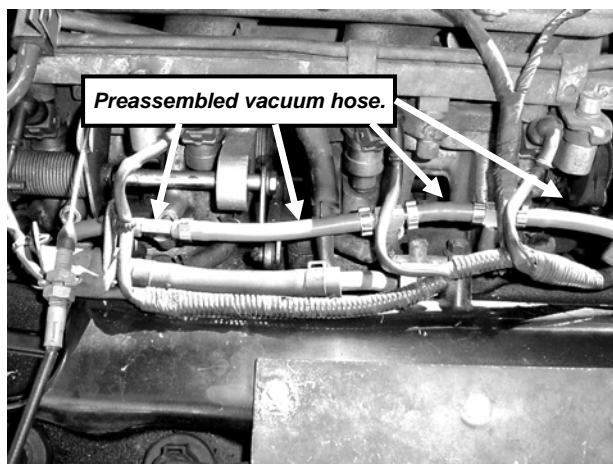
**Step 20.** Once you have removed all four caps, you should see all four vacuum fittings on the throttle body.



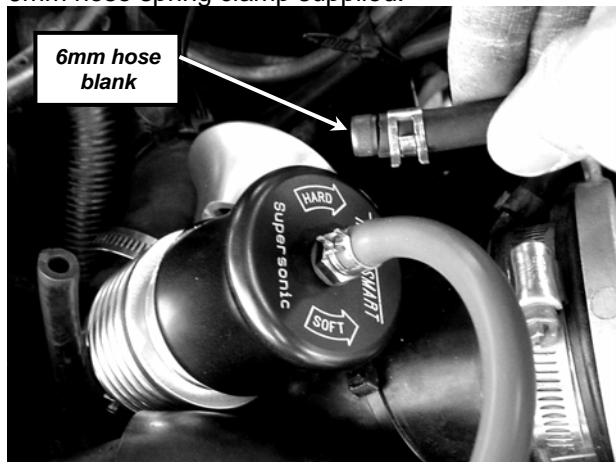
**Step 21.** Connect the numbered ends of the preassembled vacuum hoses to the corresponding throttle body fittings in the previous photo. Secure each vacuum fitting with the 5mm hose spring clamp supplied.



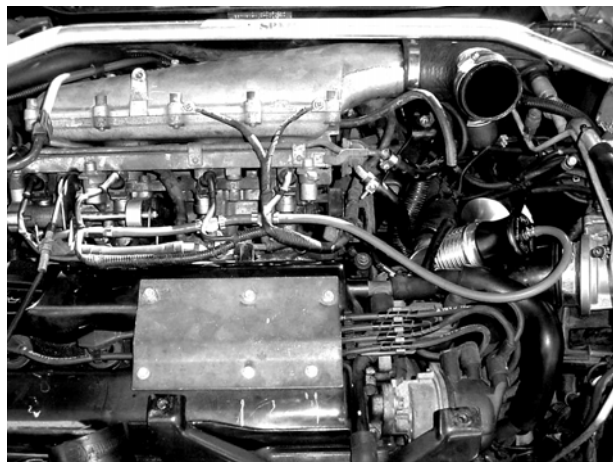
**Step 22.** You will need to use a set of long nosed pliers to access the tight areas around the throttle body. Once fitted, the four vacuum fittings should look the same as the photo below.



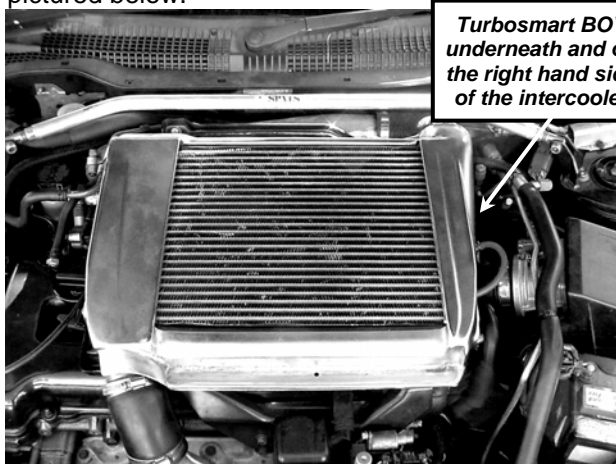
**Step 23.** Secure the long end of the vacuum assembly to the Turbosmart BOV with the 5mm hose spring clamp supplied. Blank off the factory vacuum/boost line with the 6mm hose blank and secure using the 6mm hose spring clamp supplied.



**Step 24.** The assembled vacuum line and BOV should look as pictured below.



**Step 25.** Follow steps 8 to 1 in reverse to reassemble the intercooler. The finished installation should look as pictured below.



### 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 fitting your BOV.

- Check that the O-ring on the base of the BOV is fitted correctly and is in good condition.
- Ensure that the BOV grub screws and lock-nuts are tightened on the adaptor.
- Ensure the GTIR Adaptor is fitted to the factory turbo hose and secured with the 50mm constant tension hose clamp supplied.
- Ensure that the intercooler assembly is reassembled correctly.
- Ensure the vacuum hose assembly is properly connected and secured with the 5mm hose spring clamps supplied.
- Check the 29mm Blank is fitted on the return hose and secured with the factory hose spring clamp.
- Re-adjust the setting of your BOV. Please refer to your BOV fitting instructions for further information.

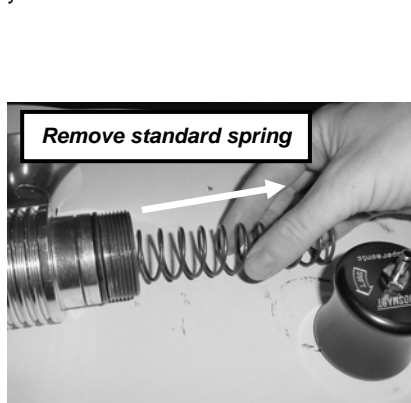
### IMPORTANT NOTE IF FITTING AN ATMOSPHERIC VENTING TYPE II OR III BOV

Turbosmart recommends that if using an atmospheric venting Type II or III BOV the Atmospheric Spring supplied with this kit should be fitted to your BOV for optimum performance.

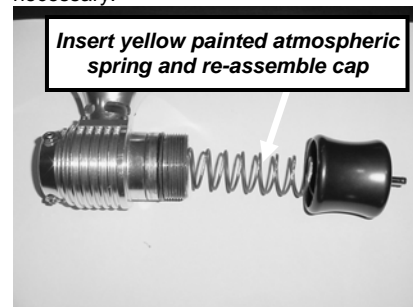
**Step 1.** Remove the cap of the BOV by rotating in an anti-clockwise direction, continue past the red indicator groove until the cap is released -**CAUTION** The cap is under spring tension, wear safety glasses and remove with care!



**Step 2.** Remove the standard spring from your BOV.



**Step 3.** Replace your standard spring with the supplied yellow painted atmospheric spring and re-assemble the BOV cap. Refer to the maintenance instructions of your BOV for further information if necessary.



#### Warranty

Turbosmart warrants its products to be free from faults or defects for the life of the product. \*  
\* Subject to Turbosmart trading terms and conditions

#### Warning!

Incorrect use of this product may result in damage to your vehicle. Failure to observe any notes or recommendations may result in incorrect use of this product. This product is intended for use in off-road racing only. Turbosmart will accept no responsibility for the incorrect use of this product.

#### Disclaimer!

Turbosmart will not be held responsible for any damage caused to property or person, directly or indirectly related to the use of any Turbosmart products.

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We sometimes make mistakes, as do our dealers, distributors and suppliers. Even customers can sometimes order the wrong parts. Do not use, modify, install, trial assemble, nick, drop, scratch or adjust any part until you first check for any damage. Damage must be reported immediately. NO EXCEPTIONS. If there are any components missing please contact your authorised reseller immediately upon receipt of your shipment. Missing components must be reported within five (5) business days of receipt. Parts returned for any reason MUST BE IN RESALABLE CONDITION. It is YOUR responsibility, "THE CUSTOMER" to carefully package any returns to avoid shipping damage. Insurance is highly recommended. Credit cannot be issued for damaged goods.

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All warranty claims must be returned to the authorised reseller, you must return the product and sales receipt, at your own expense, accompanied by a letter stating the reason for the claim. Proof of purchase must be provided with any warranty claim and will be verified with the authorised reseller from which the product was purchased.

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**Happy motoring!**

The Turbosmart Team.