

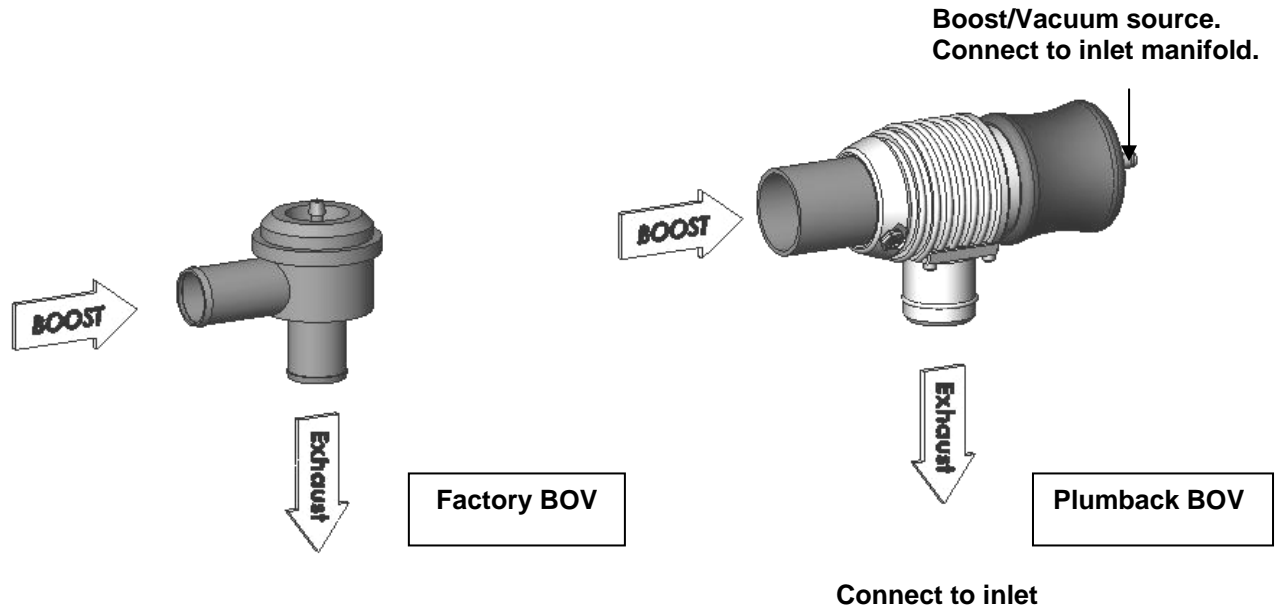
BLOW-OFF VALVE TYPE III PLUMBCK (BOV III PB) INSTRUCTIONS

IMPORTANT NOTES ON FITTING YOUR BOV III PB

Turbosmart recommends that your BOV is fitted by an appropriately qualified technician.

IMPORTANT!

Please note the orientation when fitting your Blow-Off Valve Type III Plumbck



IMPORTANT NOTES ON FITTING YOUR BOV III PB

Do you need an adapter? Check with your local dealer or visit the Turbosmart web-site www.turbosmart.com.au. We have a large range of Multi-Fit Adapters which make fitting your BOV III PB very simple. Using a Turbosmart Multi-Fit Adapter could save you hours of expensive fabrication – remember to check if you can utilise a Multi-Fit Adapter. Turbosmart recommends that your BOV III PB is fitted by an appropriately qualified technician. If you are using a Multi-Fit Adapter, refer to the adapter instructions (included with your Multi-Fit Adapter) for detail on fitting your BOV III PB. To fit a BOV III PB with a weld on adapter refer to the following:

- Identify a suitable location along the cross over pipe for the BOV III PB – this will need to be between the outlet of the turbo and the throttle body
- Ensure the mounting location is a minimum of 200mm away from any source of heat i.e. turbine housing, exhaust manifold. If the BOV III PB can not be mounted clear of a heat source, then ensure that it is adequately shielded
- Ensure that the mounting position will not be effected by the engine moving when under load
- The BOV III PB must be mounted in a position so that it is sheltered from any contamination, i.e. away from where it could be splashed or the direct path of any air borne debris
- Weld the adapter into the cross over pipe – the adapter included is suitable for TIG welding into Mild Steel or Stainless Steel. For aluminium use the aluminium weld on adapter, part # FG-ADA-WA38
- Ensure that the surface of the adapter is not damaged or distorted in the welding process – remember the Base O-ring must seal on this surface
- Ensure that any slag, burrs or debris is removed from the welded region prior to fitting the BOV III PB – failure to observe this will damage the BOV III PB and may also cause damage to the engine
- Lubricate the base O-ring and slide the BOV III PB fully over the adapter, apply Loctite 271 onto the grub screws and lock nuts before screwing them into the base of the BOV III PB - do not over tighten, 5NM maximum tightening torque
- Identify a good vacuum / pressure source and connect with vacuum hose to the nipple in the cap of the BOV III PB – a shared or poor vacuum source will result in poor function of the BOV III PB
- Ensure the vacuum hose has a minimum 5mm inside diameter and is clean and free of debris – smaller hose will result in poor function of the BOV III PB
- Use good quality vacuum hose when fitting the BOV III PB – other hoses will be effected by heat and will eventually crack, split or collapse. This will cause the BOV III PB to leak and may cause poor fuel economy and may lead to serious engine damage
- Minimise the length of the vacuum hose where possible – the longer the hose the slower the BOV III PB will respond, this may have a dramatic effect on the performance of the BOV III PB
- Connect the exhaust port of the BOV III PB to the intake system between the inlet of the turbo and the air flow meter – the exhaust fitting is suitable for 32mm ID hose
- Ensure that all hose connections are secured with hose clamps

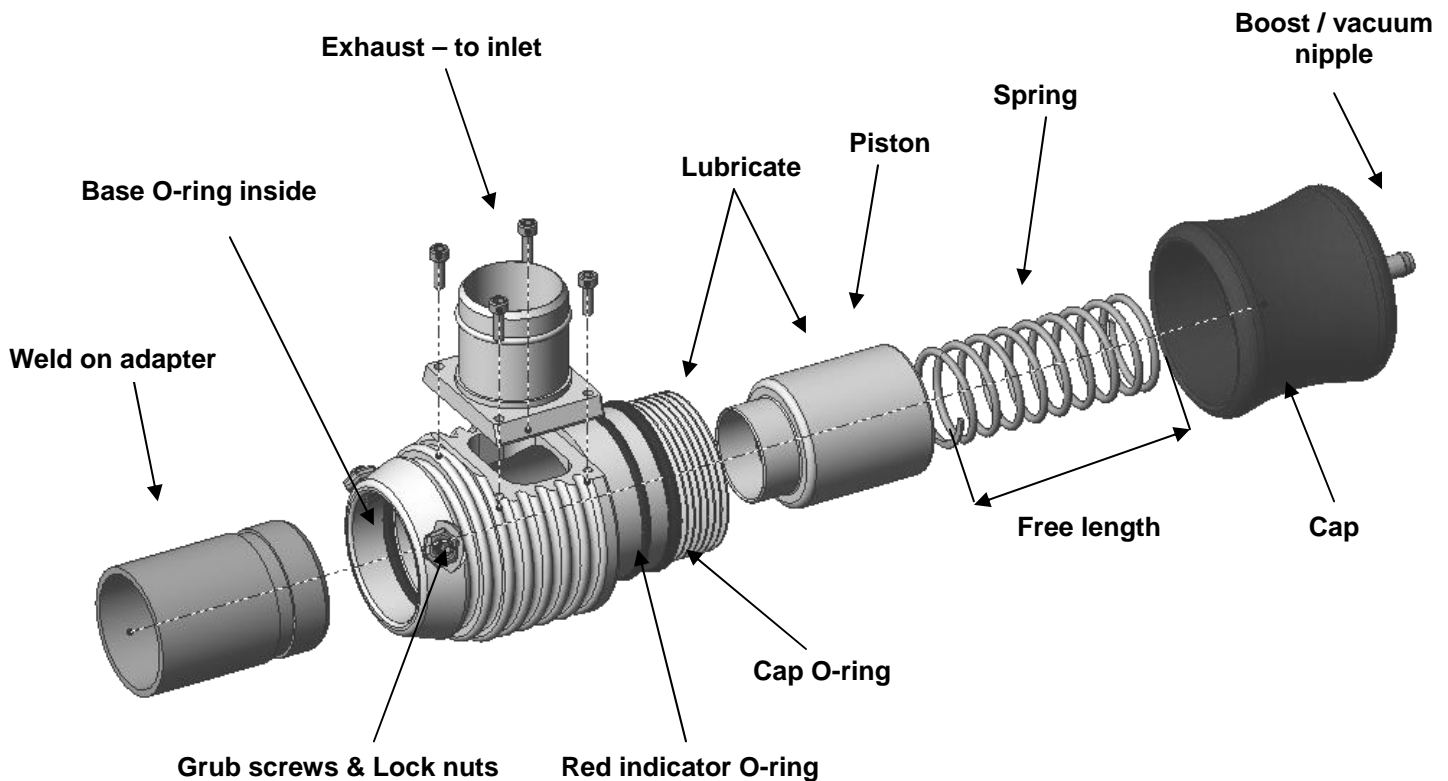
BLOW-OFF VALVE TYPE III PLUMBACK (BOV III PB) INSTRUCTIONS

IMPORTANT NOTES ON SETTING THE SPRING TENSION

- Adjustment to the BOV III PB is made by rotating the cap (see figure 1), 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 indicator groove (see figure 1)
- With the engine at idle the exhaust port 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
- Turbosmart recommends that your BOV III PB is adjusted by an appropriately qualified technician
- Turbosmart recommends that a boost gauge be permanently fitted to the vehicle



Figure 1 – Exploded view of the BOV III PB



MAINTAINING YOUR BOV III PB

Turbosmart recommends that the following maintenance procedure is carried out at six monthly intervals. Regular maintenance will ensure that your BOV III PB is operating at its peak and will extend the working life of the product.

- Remove the cap of the BOV III PB by rotating in an anti-clockwise direction (see figure 1) – **CAUTION** The cap is under spring tension, wear safety glasses and remove with care!
- Remove the spring and measure the free length or the overall length of the spring (should be no less than **155mm**) – replace if below
- Remove the piston, thoroughly clean the piston and the bore of the BOV III PB
- Inspect the surface of the piston and the bore of the BOV III PB for scoring or excessive wear, silver coloured marks are an indication of excessive wear
- Check the Base O-ring and the Cap O-ring for any damage – replace if necessary
- Lubricate the bore and the piston with Turbosmart Multispray (see figure 1) – **DO NOT** use grease or viscous oils
- Re-assemble the BOV III PB in the reverse order



PART NUMBER
FG-BOV-003PB

BLOW-OFF VALVE TYPE III PLUMBACK (BOV III PB) INSTRUCTIONS

TROUBLE SHOOTING

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

- 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 / pressure hose from the nipple in the cap of the BOV III PB, 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 III PB is blocked or contaminated with dirt or debris, if the valve appears to be contaminated follow the maintenance directions above
- Ensure that the vacuum / pressure source is not shared and that the vacuum source is directly from the inlet manifold
- Check the seal between the adapter and the BOV III PB – ensure the BOV III PB is pushed fully onto the adapter
- Check the join between the adapter and the cross over pipe for leaking

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 a Turbosmart product.



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BLOW-OFF VALVE TYPE III PLUMBACK (BOV III PB) INSTRUCTIONS

THE TURBOSMART PLEDGE

DO NOT USE ANY TURBOSMART PRODUCT UNTIL YOU HAVE CAREFULLY READ AND UNDERSTOOD THE FOLLOWING AGREEMENT.

Please call if you have any questions or do not understand this agreement. Refer to our brochure, website or catalogue for terms and conditions and further information regarding your product. Turbosmart appreciates your business and pride ourselves on our customer service. We are always happy to offer you advice and will provide you with help in any way we can. The purpose of this agreement is to avoid any problems or hard feelings.

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.

Turbosmart Pty Ltd 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 Pty Ltd, after receipt of the product from our authorised 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 Pty Ltd is not responsible for voiding any original manufactures warranty.

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.

If all the above procedures are followed, and the product is found to be defective in either workmanship or material, Turbosmart Pty Ltd shall either repair or replace the product, at its sole discretion, and sole cost. This limited warranty does not cover or apply to any personal injury, labour charges or any other incidental costs or damages caused by the defective product. The individual purchaser acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the individual purchaser agrees to indemnify Turbosmart Pty Ltd and to hold Turbosmart Pty Ltd harmless for any claim related to the item of the equipment purchased. Under no circumstances will Turbosmart Pty Ltd be liable for any damages or expenses by reason of use or sale of any such equipment.

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IN THE EVENT THAT THE INDIVIDUAL PURCHASER DOES NOT AGREE WITH THIS AGREEMENT THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND UN-USED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN SIXTY (60) DAYS FROM THE DATE OF PURCHASE FOR A FULL REFUND.

THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE INDIVIDUAL PURCHASER HAS READ AND UNDERSTOOD THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS.

Happy motoring!

The Turbosmart Team.