

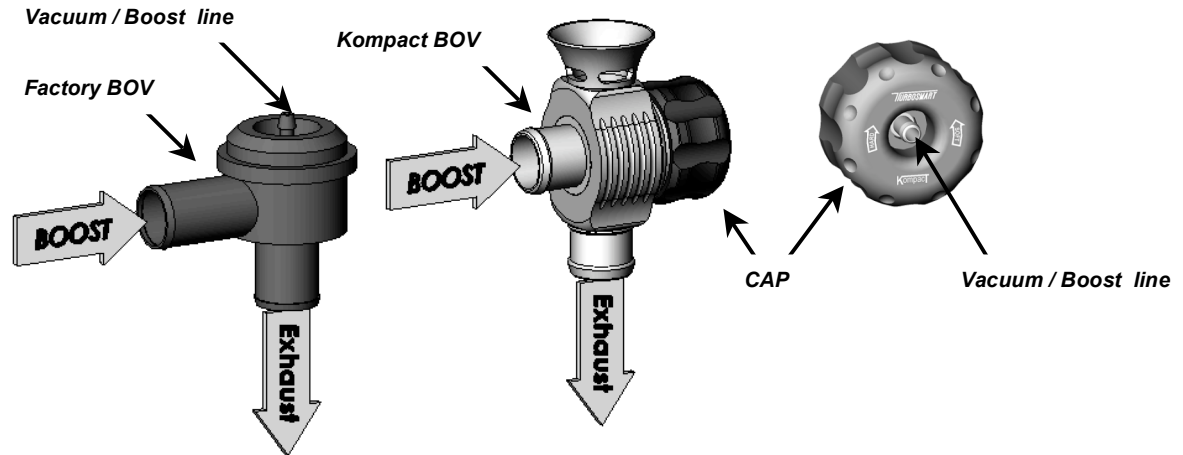
## KOMPACT DUAL PORT BLOW-OFF VALVE INSTRUCTIONS

### IMPORTANT NOTES ON FITTING YOUR KOMPACT DP

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

## IMPORTANT!

**Please note the orientation when fitting your Kompact DP BOV.**



**Figure 1 Orientation of Kompact DP BOV**

### KOMPACT KIT CONTENTS

Please check that the following items have been provided in your Kompact Kit.

Quantity	Description	Use
1	Kompact BOV	Main component
1	6.3mm-5mm Reducer	Connects 5mm ID Silicon hose with factory vacuum hose
1	3mm-5mm Reducer	Connects 5mm ID Silicon hose with factory vacuum hose
2	20-32mm Hose Clamp	To secure the boost hose and exhaust hose to the Kompact BOV
1	Kompact Blank	To blank off the Kompact Trumpet fitment
1	Loctite adhesive	To be applied onto the Kompact blank screw thread
100mm	5mm ID Silicon hose	Connects either 3-5mm reducer or 6mm-5mm reducer to Kompact nipple

### IMPORTANT NOTES ON FITTING YOUR KOMPACT DP BOV

Want more information fitting your Kompact DP BOV? Check the Turbosmart web-site [www.turbosmart.com.au](http://www.turbosmart.com.au) for a complete listing of model specific fitting instructions. Turbosmart recommends that your BOV is fitted by an appropriately qualified technician. See the following steps for details on the fitting procedure.

- Remove the engine cover, common to most European vehicles.
- Locate the factory BOV. Undo the hose clamps holding the factory BOV to the boost and exhaust hoses.
- Remove the factory BOV **noting the positions of the boost hose and the exhaust hose**. You will have to fit the Kompact DP BOV with reference to the boost hose and exhaust hose. (see fig. 1). For more information on fitting, see the Turbosmart website.
- Remove the vacuum/boost line from the Factory BOV nipple.
- The Kompact DP BOV will be mounted in the space where the factory BOV was sitting. Ensure that the mounting position will not be effected by the engine moving when under load.
- The Kompact DP BOV 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.
- Ensure that the factory hoses on which the Kompact DP BOV will be fitted to are in a good condition, not worn and without any tearing.
- Connect the factory boost hose onto the Kompact DP BOV (As shown on Fig. 1).
- Connect the factory exhaust hose onto the Kompact DP BOV (As shown on Fig. 1).
- Tighten the hose clamps supplied on the boost and exhaust hoses to secure the Kompact DP BOV.
- Connect the factory vacuum/boost line onto the Kompact BOV nipple. If the factory vacuum hose does not fit, connect the appropriate reducer & 5mm vacuum hose. Push the exposed end of the reducer into the factory vacuum/boost line and connect the 5mm vacuum hose onto the Kompact nipple.
- The supplied 5mm silicon vacuum hose is of good quality – inferior hoses can be affected by heat and could eventually crack, split or collapse. This would cause the Kompact DP BOV to leak and may cause poor fuel economy and lead to serious engine damage.
- Minimise the length of the vacuum hose where possible – the longer the hose, the slower the Kompact DP BOV will respond, this may have a dramatic effect on the performance of the Kompact DP BOV.

## KOMPACT DUAL PORT BLOW-OFF VALVE INSTRUCTIONS

### IMPORTANT NOTES ON SETTING THE SPRING TENSION

- Adjustment to the KOMPACT DP BOV is made by rotating the cap (see figure 2), 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 3).
- 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.
- Tests 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.

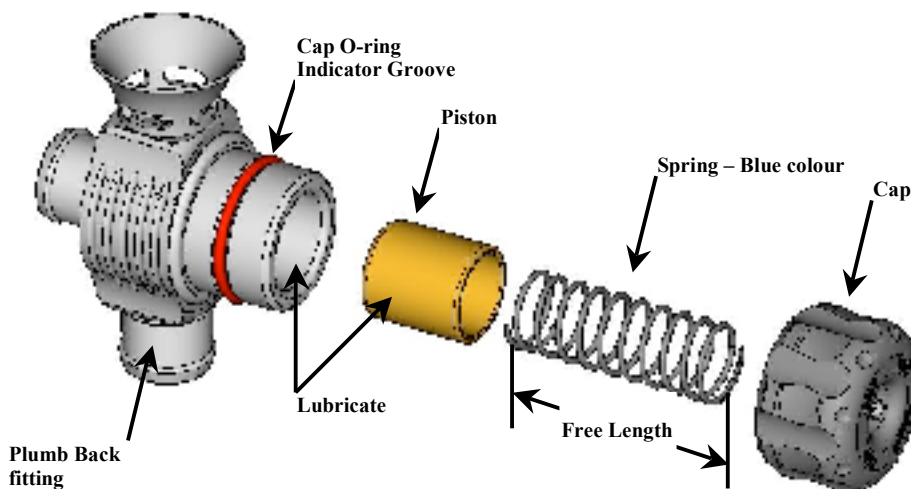


**Figure 2** Top View of Cap showing Hard, Soft adjustments

### MAINTAINING YOUR KOMPACT DP BOV

Turbosmart recommends that the following maintenance procedure is carried out at half-year intervals. Regular maintenance will ensure that your KOMPACT DP BOV is operating at its peak and will extend the working life of the product.

- Remove the cap of the KOMPACT DP BOV by rotating in an anti-clockwise direction (see figure 2) – **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. Replace the spring if its free length is less than **56mm**.
- Remove the piston, thoroughly clean the piston and the bore of the KOMPACT DP BOV.
- Inspect the surface of the piston and the bore of the KOMPACT DP BOV for scoring or excessive wear, silver coloured marks are an indication of excessive wear.
- Check the Cap O-ring for any damage – replace if necessary.
- Lubricate the bore and the piston with Turbosmart lubricant (see figure 3) – **DO NOT** use grease or viscous oils.
- Re-assemble the KOMPACT DP BOV in the reverse order.



**Figure 3** Exploded View of the Kompact DP BOV

### TROUBLE SHOOTING

The following points should be checked if you find that your engine is dipping below normal idle, stalling or if the KOMPACT DP BOV is functioning poorly. Please note, the following checks will cure 99% of problems experienced with a KOMPACT DP 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 line from the nipple in the cap of the KOMPACT DP BOV, there should be 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 KOMPACT DP BOV 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 boost hose and the KOMPACT DP BOV – ensure the hose clamps are tightened.

#### 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.



<i>PART NUMBER</i>
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## **KOMPACT DUAL PORT BLOW-OFF VALVE INSTRUCTIONS**

### **THE TURBOSMART PLEDGE**

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

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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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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.**