



## AVO Blow-off Valve Fitting Guide

Silver: PN# S2A01900A001J

Red: PN# S2A01900AREDJ

Blue: PN# S2A01900ABLUJ

Black: PN# S2A01900ABLKJ



### Applied Models:

2001-05 Impreza WRX • 2005-08 Impreza WRX STI

You are now the proud owner of a highly tested and proven AVOTurboworld upgrade kit. While you have made a wise choice in selecting this upgrade kit, below we have some suggestions and procedures for you to follow in ensuring its successful installation.

#### Tools Required

Metric 12mm socket and ratchet set or wrench • 4mm Allen Key

Flathead & Philips head screwdriver • Combination Pliers

**Step 1** – Remove Vacuum hose from Factory Blow-Off-Valve (BOV).

**Step 2** – Remove two 12mm headed BOV retaining bolts from factory intercooler.

**Step 3** – Compress BOV Spring clip and carefully remove Factory BOV from Vent Return hose.

**CAUTION** – Care must be taken when spring clip is compressed, injury and or damage may occur as spring clip can release unpredictably with great force

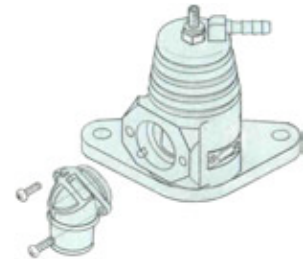
**Step 4** – Remove two retaining screws from factory alloy BOV Vent Return Elbow and remove from factory BOV.

**Step 5** – Fit factory alloy BOV Vent Return Elbow into replacement AVO Billet BOV re-using the two factory retaining screws. Make sure that the alignment lug in the alloy BOV Vent return is fitted correctly.

**Step 6** – Compress BOV Vent Return Spring clip and carefully fit Factory Vent Return hose onto the new AVO Valve. Lubricating the inside of the rubber hose with WD40 or similar lubricants will make fitting easier.

**Step 7** – Re-use factory BOV gasket and re-fit the two factory 12mm headed bolts. Take care to ensure that the factory gasket is aligned correctly. Torque bolts to 15Nm or 20In lb.

**Step 8** – Start engine and verify that there are no vacuum leaks and / or loose components.



**CAUTION** – Care must be taken not to damage threaded inserts in factory intercooler by either over-tightening or cross-threading of BOV bolts. Failure to do so can result in permanent damage to your intercooler

#### Removable Vent Port / Adjusting BOV Spring Preload.

Your AVO Billet Adjustable BOV features a Removable vent port. AVO Turboworld recommends for street use that this vent port remains fitted to the BOV, and is only removed for racing.

BOV adjustment is pre-set to suit most applications and should not require any adjustment.

Subsequent adjustment of the BOV will result in either more or less air being bypassed off-throttle.

Turning the Adjusting screw clockwise will result in less air bypassed back through the factory Vent return. This will also reduce the amount of noise the BOV makes off throttle if the external vent is removed.

Turning the Adjusting screw counter-clockwise will result in more air bypassed back through the factory Vent Return. This will increase the amount of noise the BOV makes off throttle.



**CAUTION** – Operation of your engine with the external vent port open can lead to dust / debris being drawn into the turbo intake. Care must also be taken when pressure washing the engine to prevent water entry etc.,

#### Maintenance

AVO Turboworld recommends that every 6months or 15,000Km that the BOV should be removed, disassembled and the following items checked and inspected.

- Check inner bore of BOV body and Brass BOV piston for scoring or signs of seizing. Any scratches or minor damage can be polished out carefully with 1200 grade emery paper.
- Clean all parts thoroughly with brake cleaner and allow it to dry completely.
- Re-assemble all parts, lubricating the Brass BOV piston with a light coating of transmission or sewing machine grade oil.

**CAUTION** - If in any doubt contact AVO Turboworld prior to disassembly of your AVO BOV