

# Turbo Spool Valve Installation Manual

Part number.TBV-47-2"-Y insert 2"-2.5" Size Y Pipe.

*Note: This Turbo Spool Valve kit is for use with or without the use of a Mass air flow meter.*

**For engine sizes 1 - 2.5 litres**

## Kit Contents



Establish an area for fitment in engine bay, ensure there is adequate clearance for the valve and pod filter with allowance for the mounting angle. See Mounting angle document for information. Ensure it is not over or near hot exhaust pipe. 20cm minimum clearance. Make sure the temperature of the environment does not exceed 100 degrees as this is too hot for air inlet temperatures and may damage the valve.

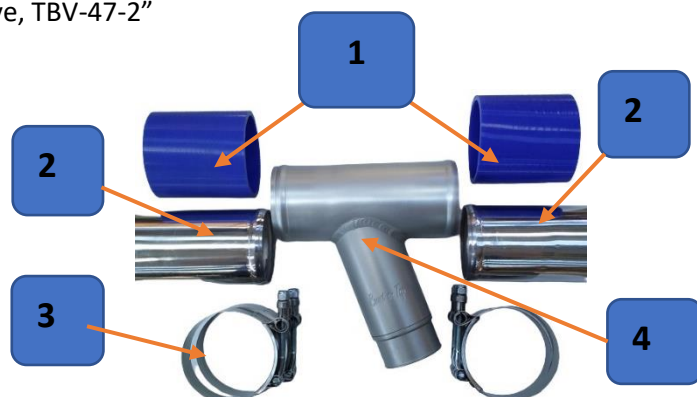
The insert pipe is universally mounted. On a straight section of the intercooler to throttle body piping.

With the established position, mark the required section to be cut out. Disconnect the piping, cut out required section. You will need to bead roll the end of the cut piping to prevent the insert section from sliding off. Slide the silicone hose with clamps onto the inlet piping and position the Y insert adaptor in place.

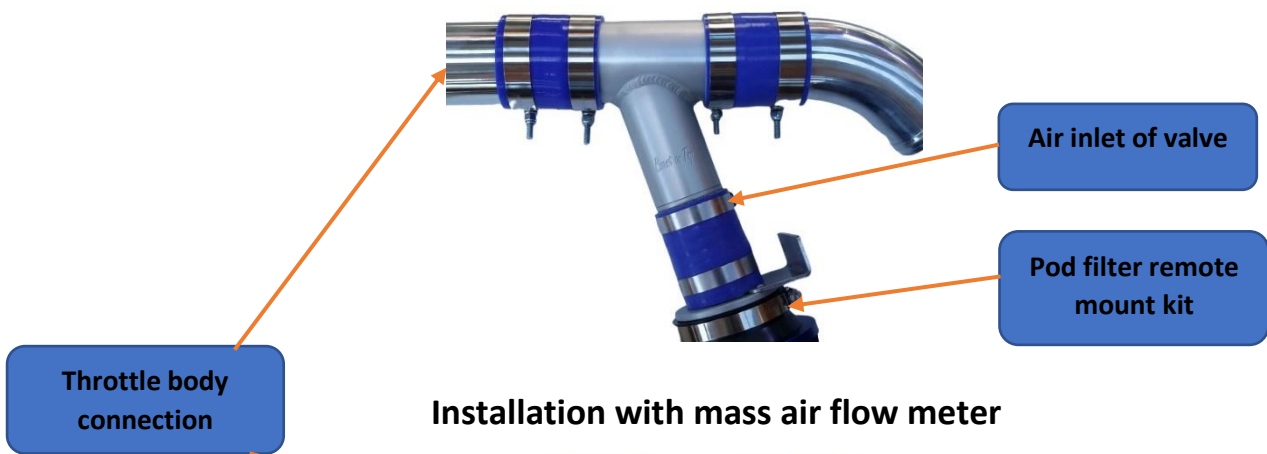
Figure A: Figure A is an image of the kit contents / installation

- 1) 2 x Silicone Hose
- 2) 2 x Sample engine aluminium connecting pipes with rolled ends
- 3) 4 x T Nut Clamps
- 4) Y insert with Turbo Spool Valve, TBV-47-2"

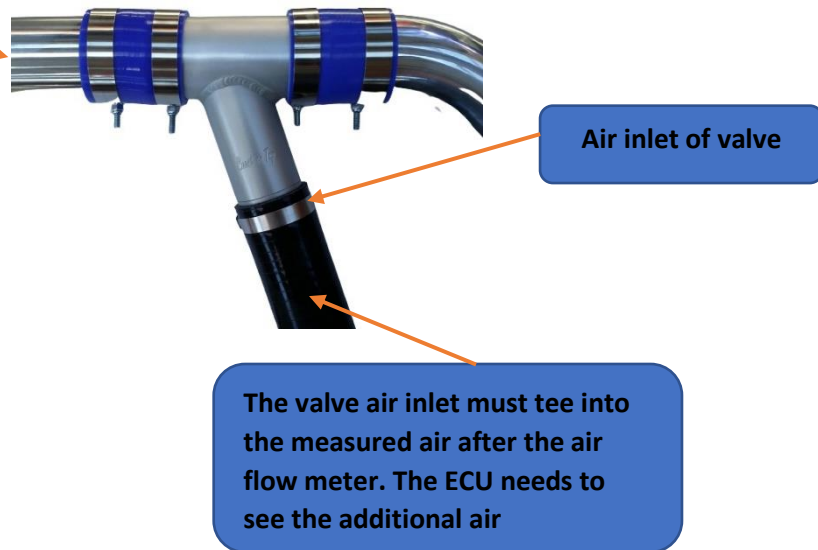
Figure A



## Installation with remote pod filter



## Installation with mass air flow meter



## After installation

It is the buyer's responsibility to ensure tuning of the engine is conducted. Typically, additional enrichment is required to blend air/fuel ratio to 105 KPA area. This is the area in the map where additional air is introduced. The customer is required to determine the enrichment required according to the fuel type being used. By using a wide band sensor in the exhaust and recording the AFRs then rapidly depressing the accelerator in neutral, this will give you a guide to current AFR's on the table. In the 105KPA area you should see a ratio of 12.2 to 12.5 to 1 Air Fuel Ratio. After the installation, under rapid acceleration condition, a roaring sound from the air filter will occur. This means the turbo spool valve is operating correctly. This is the sound of induction, it should be brief as the valve closes as soon as the turbo starts to boost.

**Note: By Varying the Air Fuel Ratio @ 105 KPA it will change the Spool valve open duration.**

Enjoy your instant power.

**Note. Use a small amount of lubricant on the threads of the clamps**

**Please keep the product box for serial number reference.**

Terms and conditions of sale are available on the website [www.boostontap.com.au](http://www.boostontap.com.au)

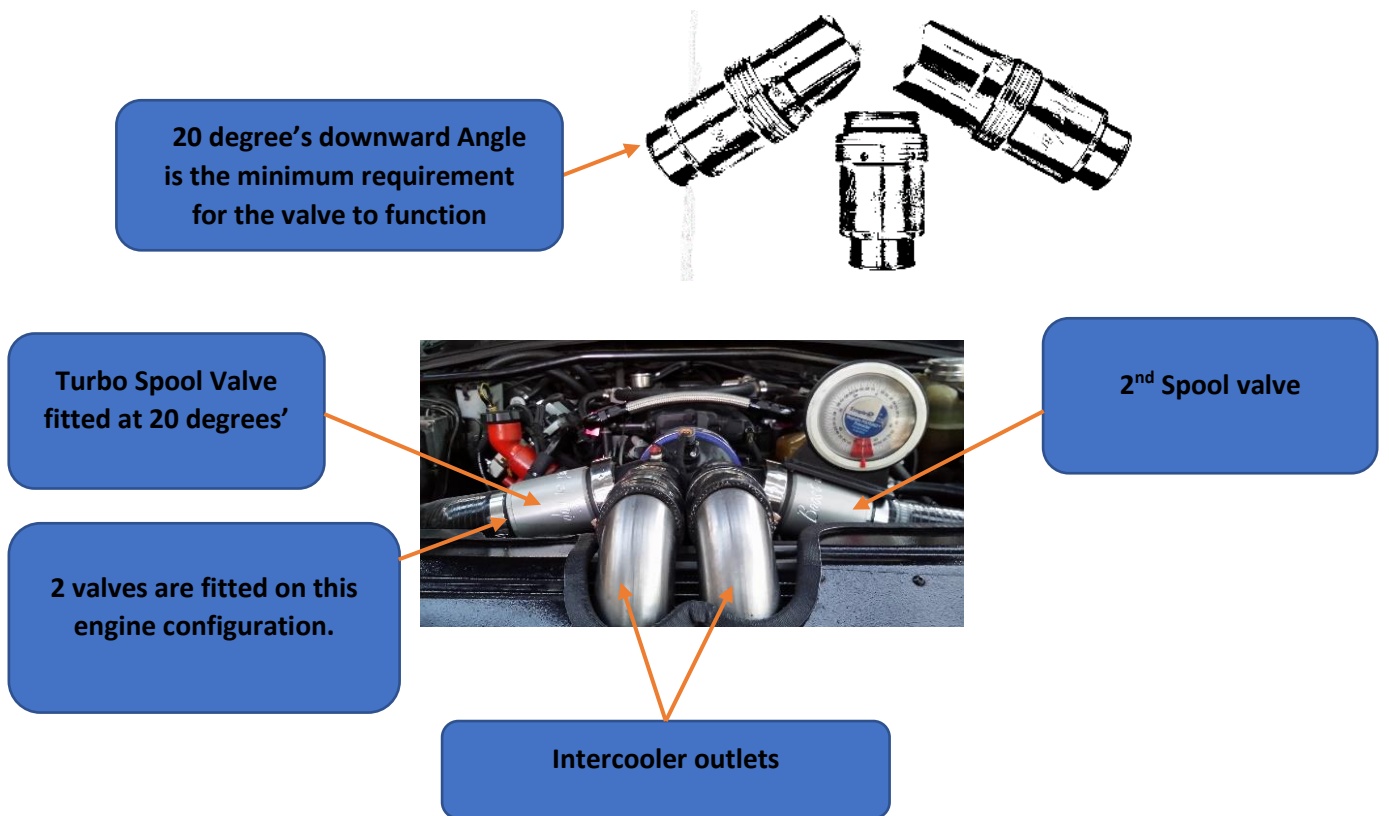


# Valve Installation Angle Requirements

Before installation, an overview of the engine bay must be conducted. A suitable clearance area must be established, allowing for a **minimum** 20 degree's downwards mounting angle.

*See figure 1 Valve position (Typically Each kit has only one valve) This diagram shows 3 positions for illustration only*

**Figure 1: Fitment illustration.**



**Top view installation on VX Commodore Is1 with 2 valves fitted**

