

# INSTALLATION GUIDE



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### Mk5 / Mk6 TSI Cold Air Intake System

- **Difficulty**

- Beginner - About 1 Hour

- **Required Tools**

- T20, T25, T30 Torx Driver
  - T20H (Security Torx) may be required
- Flathead Screwdriver
- Hose Clamp Pliers
- 7, 8, 10mm Socket and Wrench
- Small extension for your sockets
- 2.5mm, 5mm Allen

- **Additional Notes**

- This Install Guide documents the installation process on a Mk5 VW GTI. There may be minor differences depending on specific vehicle, market, options, etc.

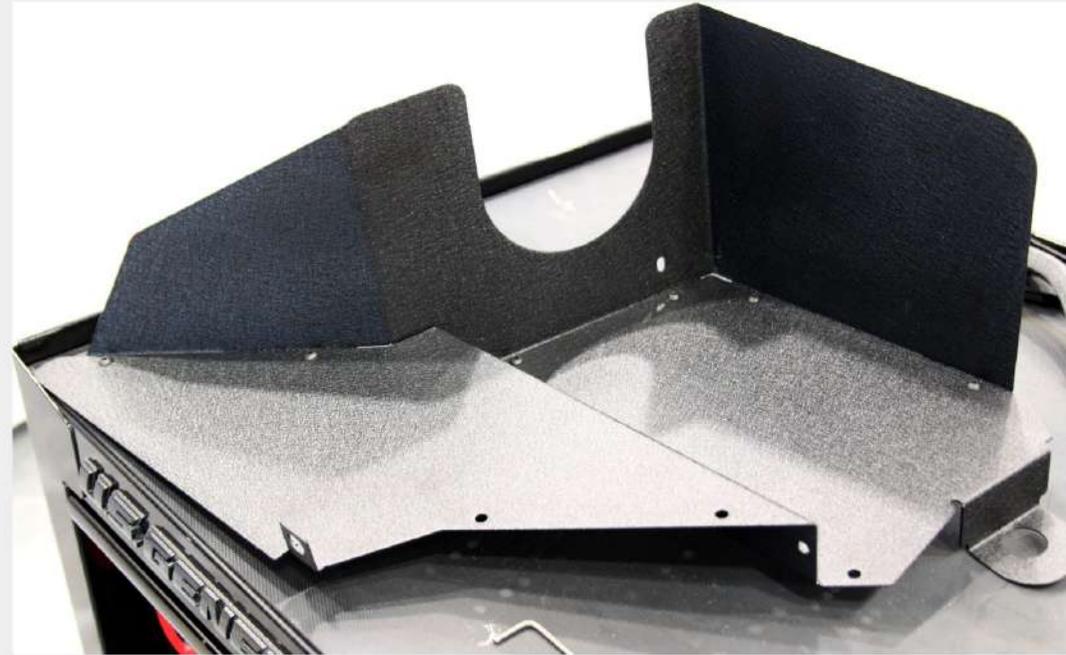
- **Before You Begin**

- It is highly recommended to read this entire guide prior to installation to familiarize yourself with the product and locations mentioned in this guide.
- Prepare all necessary tools prior to beginning install to ensure a smoother installation process.
- Allow your engine and exhaust to cool entirely before proceeding with the installation process to prevent injury.
- Unbox all components and verify contents before beginning installation process.
  - If anything is missing or damaged please contact us immediately.

## Step 1

### **Begin by assembling the heat shield on a workbench.**

Note: Use both the 2.5mm Allen as well as the 7mm socket to make assembly easier. Work piece by piece until you have the heat shield fully assembled. The small hole that is leftover will be for the SAI filter if needed later in the install.



**Step 2**

**Install rubber edging around the heat shield.**

**Step 3**

**Install rubber intake heat shield cover in the U-Groove.**



## Step 4

**In the engine bay, begin by removing the ram air inlet of the OEM airbox.**

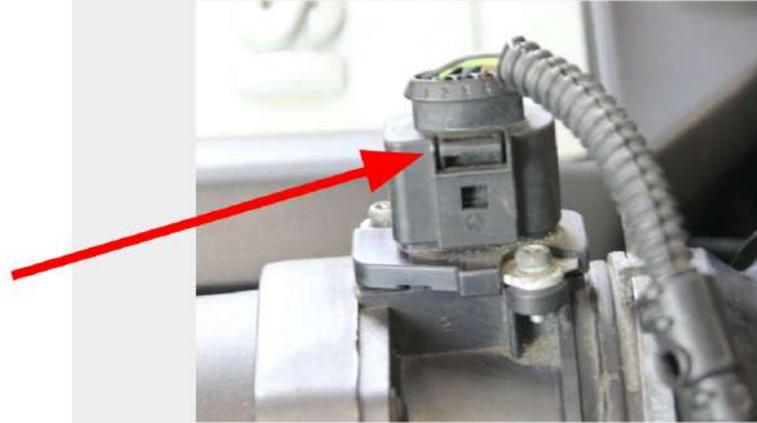
Note: There are three clips holding the top cover of the air inlet on, and two T25 screws on each side of the inlet holding the rest of it in.



### Step 5

**Remove the MAF sensor harness from the MAF sensor. Be sure that you are putting pressure on the clip that holds the sensor and harness together.**

Note: Sensors that have never been removed can be difficult. Try pushing the sensor in further, and then pulling up to remove.



### Step 6

**Using the hose clamp pliers, remove the hose clamp holding the upper intake tube to the ribbed inlet, and separate the two pieces.**



**Step 7**

Using the 5mm Allen along with an extension, unscrew the bolt holding down the airbox.

**Step 8**

Remove the airbox. Pull upwards to disconnect the airbox from the factory rubber mounts.



### Step 8.5

Some engines codes (CBFA) will have a small secondary air injection hose that connects to the top of the air box. If you have this hose, remove it from the air box. Otherwise you can ignore this step.

### Step 9

Using a T30, remove the screw holding the stock intake tube to the heat shield on the backside of the engine bay.

Note: Removing the engine cover here may allow for more/easier access.



### **Step 10**

**Disconnect the PCV hose from the intake inlet tube by squeezing on both sides of the connector and pulling backwards.**

### **Step 11**

**Remove the entire intake tube by pulling up gently to disconnect the inlet from the turbo.**



## Step 12

**On the workbench, separate the MAF housing from OEM air box using the T25 bit.**



## Step 13

**Attach the Velt Sport 3" to 2.25" coupler on the Velt Sport Intake Inlet. Slide on the hose clamp onto the coupler.**

Note: Be sure to fully tighten down the hose clamp on this step as it will be more difficult to reach after reinstallation.



## Step 14

**Install the Velt Sport Intake Tube back onto the Turbo Inlet. Tighten down the hose clamps.**

Note: This can be a tight fit. Once installed be sure that both hose clamps are sufficiently tightened.



## Step 15

**Reattach the PCV Hose to the Velt Sport Intake Tube.**



## Step 16

Using the supplied hardware and 10mm socket, install the heat shield next to the battery tray in the same location of the bolt we removed in Step 7.

## Step 17

Reinstall the T25 screws that were removed in Step 4.

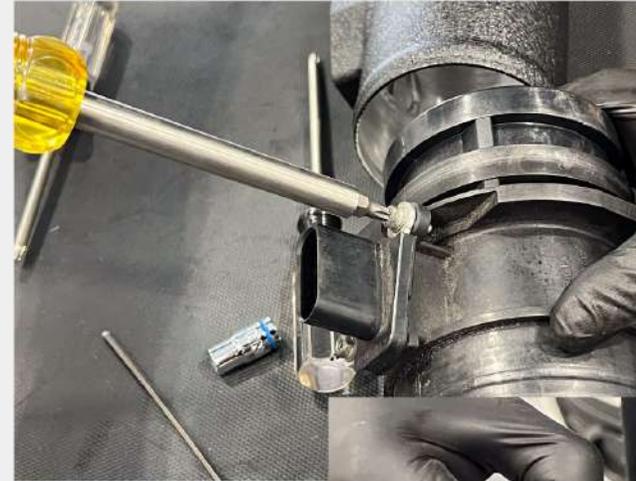
Note: Ensure that the heat shield is not pushed down past the rubber grommets once installed.



## Step 18

### Remove the MAF Sensor from the housing.

Note: Some vehicles may have security Torx that is required to remove the MAF sensor. The size for this is T20H.



## Step 19

### Install the MAF sensor into the Velt Sport MAF Housing Tube reusing the OEM hardware.



## Step 20

**Install the Velt Sport Connecting Tube and 3" coupler onto the Velt Sport Intake Inlet and tighten the hose clamps.**

Note: Do not fully tighten down the hose clamp to allow for some wiggle room and adjustment during final assembly.

## Step 21

**Plug the MAF Sensor Harness back in.**



## Step 22

**Install a 3" coupler onto the Velt Sport Intake Elbow. Install the elbow with coupler onto the MAF pipe.**

Note: Be sure to line up the elbow with the U-Groove on the intake heat shield. Do not fully tighten down the hose clamp to allow for some wiggle room and adjustment during final assembly. **Some cars may have an additional hose that needs to be plugged back onto the intake elbow. If you do not have this, use the provided silicone cap and hose clamp to block this off.**

## Step 23

**Using the supplied 10mm hardware, bolt down the intake heat shield using a 10mm socket.**



## Step 24

**Put a hose clamp onto the filter element, and install the filter element onto the Velt Sport Intake Elbow.**

Note: Do not fully tighten down the hose clamp to allow for some wiggle room and adjustment during final assembly.

## Step 25

**Fully tighten all remaining hose clamps for the entire system and double check your work.**



**Step 26**  
**Step back and enjoy your new**  
**Velt Sport Cold Air Intake System!**

