



INSTALLATION INSTRUCTIONS FOR MK3 VOLKSWAGEN JETTA (Vento), GOLF, & Corrado models equipped with the VR6 engine

Thank you for choosing to purchase a Carbonio Intake System. Please take the time to fully read over these instructions before attempting to install the kit. This will greatly speed up the installation process and minimize any difficulties you may encounter.

Tools Required:

- Socket wrench with extensions. 7mm, 10mm, and 13mm socket heads
- 10mm & 13 mm open-ended wrenches
- Flat headed (slot) screwdriver
- Phillips head (star) screwdriver
- Drill with 7/64" drill bit
- Sharp knife or razor saw
- Scissors or wire cutters

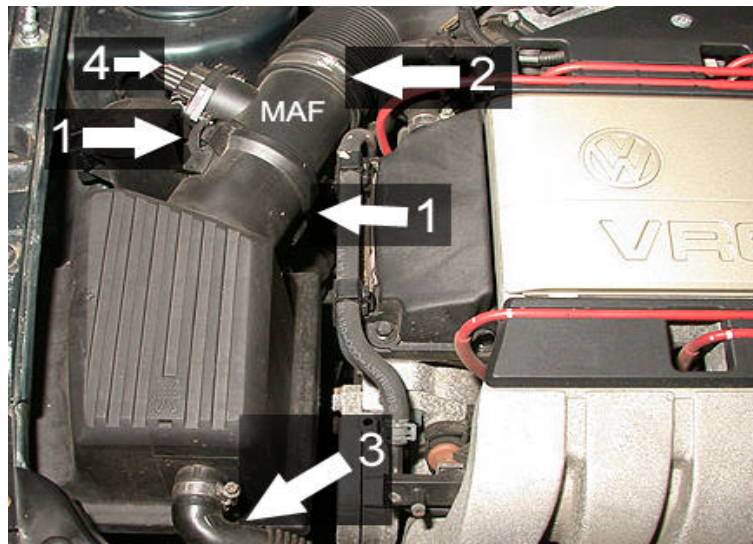
Kit includes:

- 1 - Carbon Fiber main intake section
- 1 - Air filter (pre-oiled) with stainless clamp
- 1 - Small air pump breather filter with clamp
- 1 - MAF bracket
- 1 - Charcoal canister relocation bracket
- 1 - Air filter bracket
- 2 - 3" hose clamps
- 1 - OEM grade MAF coupling
- 8 - Black nylon tie straps
- 2 - Lengths of rubber hose
- 4 - Barbed hose couplers
- 1 - Fixing bolt
- 2 - Phillips headed screws
- 2 - Nuts

LABOUR ESTIMATE GUIDE

1 Hour

Refer to the photo below for Steps 1- 4



Step 1:

Between the airbox and MAF there are 2 metal clips (shown as # 1 above). Loosen them by placing a flat headed screwdriver inside of them and prying them loose. Many times a simple twisting motion is all that is required. Separate the MAF from the airbox lid by pulling apart.

Note: There is a rubber ring that seals between the MAF and airbox lid. If this ring is still on the MAF when removed, slide it off as it will not be needed.

Step 2:

Using a screwdriver loosen the hose clamp (# 2) that is between the MAF and plastic intake pipe.

Step 3:

On vehicles equipped with an air pump there is a hose that runs between the front of the airbox (# 3) and the front of the engine. Disconnect the plastic hose where it meets the front of the engine. There may be a clamp here that first needs to be loosened.

Step 4:

There is a wiring harness that leads to the MAF (# 4). Separate this harness from the MAF by pulling it apart. Note that there is a plastic clip that needs to be depressed before the connector will separate.

Step 5:

On either side of the airbox there are 2 'rubber bands'. Remove these and lift the complete airbox out of the car. The airbox may require some rocking back and forth to get it out.

Step 6:

Remove the MAF. **Be sure to note its orientation as re-installing it backwards can lead to an improper running engine.**

Step 7:

Using the included Phillips screws with nuts, screw the MAF to the included MAF bracket. The longer 'tip' of the bracket goes towards the top and the wiring harness connection is to stay at the top also.



Step 8:

On the passenger side shock tower there are 2 bolts. Use a 13mm wrench to loosen these bolts and install the MAF bracket to the shock tower. Once again, make sure that the MAF is facing in the correct direction.

Step 9:

Attach the MAF to the plastic intake pipe and tighten the hose clamp loosened in Step 2. Also re-attach the MAF harness removed in Step 4. Make sure all the connections, clamps, and fasteners are tight.



Step 10:

In Step 3, a hose was removed from the front of the engine that went between the airbox lid and air pump. Attach the included breather filter to this hose. Make sure the small hose clamp is around the neck of the filter and tighten this clamp with a screwdriver once the filter is installed.

Note: This filter comes pre-oiled and ready to install.



Step 11 follows the vehicle specific instructions for re-locating the charcoal canister. Find the section that applies to your vehicle and proceed to follow those steps

MK3 VR6 Charcoal Canister Re-location 1994-1997 Models

Step 1:

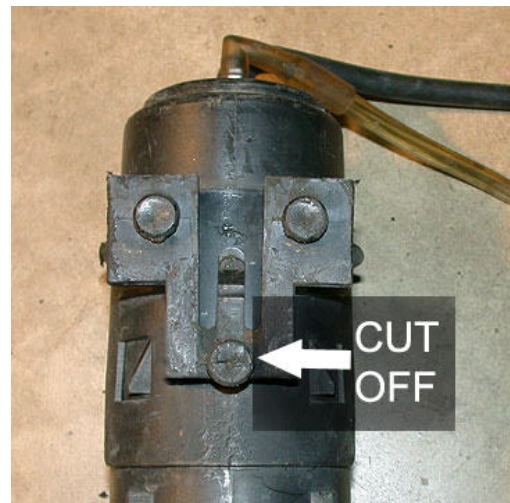
On the passenger side, just behind the headlight, is the charcoal canister. Remove this canister by pulling up on it. Once the canister is out, take a sharp knife or scissors and cut the 2 hoses on it about 10-12 inches from the end.



Step 2:

Using a razor saw or sharp knife, cut off the round tab that is on the middle of the charcoal canister. Once this is done, connect the included barbed hose couplers to the 4 loose ends of hose (2 on the canister and 2 on the car that were cut in the previous step). Using the 2 included lengths of hose, connect one piece to each barbed coupler on the charcoal canister.

Tip: If you find that slipping these on is really hard, you can soften the hose by either warming it with a hair dryer or dipping them in hot water.



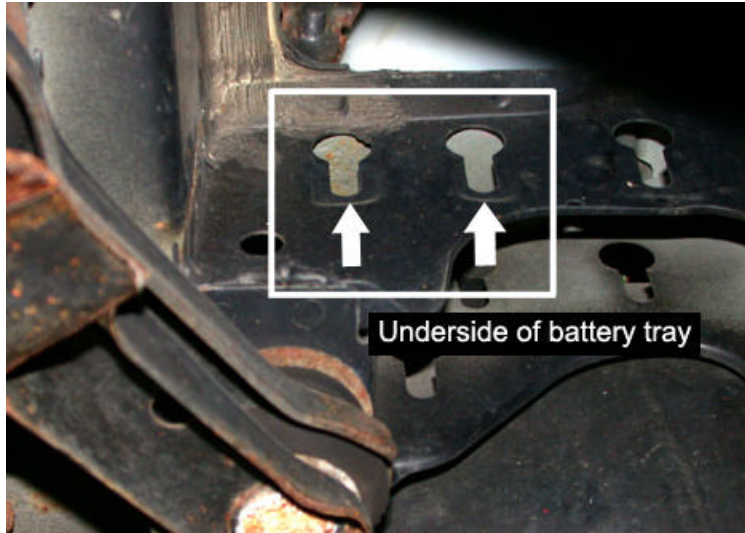
Step 3:

To the left of the battery there is a bolt that holds the headlight relay in place. Using a 10mm wrench or socket, loosen this bolt.



Step 4:

On the underside of the battery tray there are 3 holes. Use the 2 left most holes to slide in the charcoal canister. The two tabs (seen in the Step 2 image) will slide into these holes and hold the charcoal canister in place.



Step 5:

Run the hoses along the bottom of the radiator support and back to the original hoses on the passenger side. Connect the charcoal canister hoses to the barbed connectors on the passenger side. Once all this is routed, use some of the included plastic zip ties to neatly fix the hoses to the lower radiator support and surrounding chassis points. Be sure not to tie these hoses to anything that might get too hot to touch. When routing the hoses, it is ok to trim their length as this is not a critical measurement.

MK3 VR6 Charcoal Canister Re-location 1998-1999 Models

Step 1:

Just behind the headlight on the passenger side is the charcoal canister. Remove it by pulling up on it to slide it along its fixing points and then pull it out. The canister has 3 screws on it (shown with arrows) holding a plastic bracket in place. Remove these screws and the bracket.

You might need some slack in the hoses leading to the canister. This can be achieved by pulling on the hoses.



Step 2:

Remove the passenger side indicator light located on the side of the bumper. This light is clipped in place and can be pried out with a flat headed screwdriver. Under this light is a nut that, once removed, allows you to remove the horn and horn bracket. Remove these parts and be sure to disconnect the cable that goes to the horn

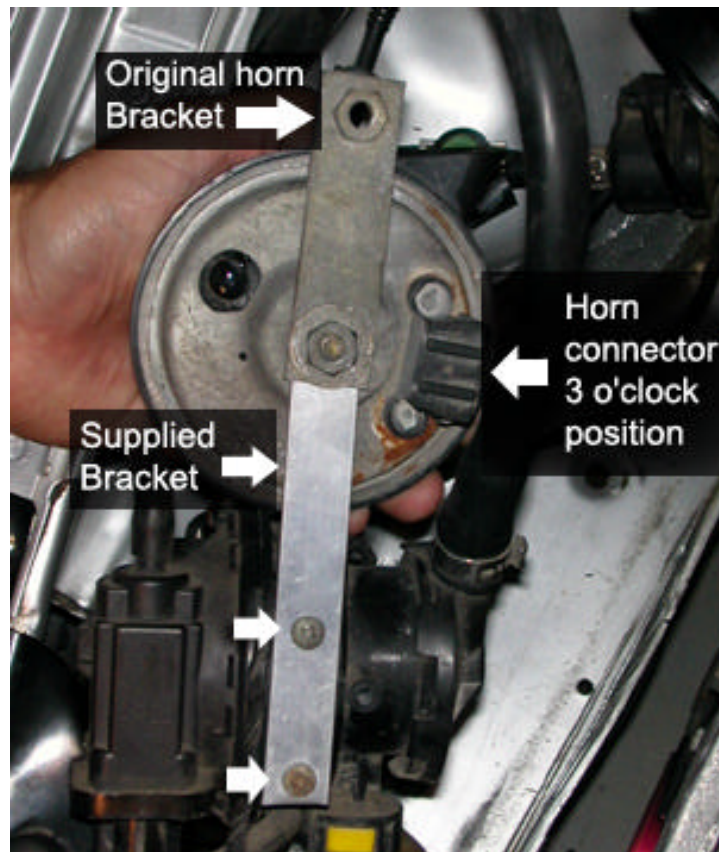
Tip: To avoid damaging the paint on the bumper, wrap the tip of the screwdriver in tape or place some paper between the tip of the screwdriver and the paint on the bumper.



Step 3:

Attached the included bracket to the horn and, using the screws removed in Step 1, attach the charcoal canister to the bracket. Use the photo left as a guide to orient all of the pieces and make sure the horn connector is in the 3 o'clock position.

Once this assembly is built, re-install it into the car making sure to re-connect the horn. At this time you can re-install the marker light removed in Step 1.



Corrado VR6 Charcoal Canister Re-location

Follow Steps 1&2 of the **1994-1997 MK3 VR6 Charcoal Canister Re-location** above (cutting off the central tab is not necessary) . Place the canister **INSIDE** of the REAR passenger side wheel well and run the hoses back to the engine compartment and make all the connections. Make sure that the hoses are joined the same as when removed and not inverted. Use the included plastic ties to fix the hose to the underside of the car. When routing the hoses, it is ok to trim their length as this is not a critical measurement.

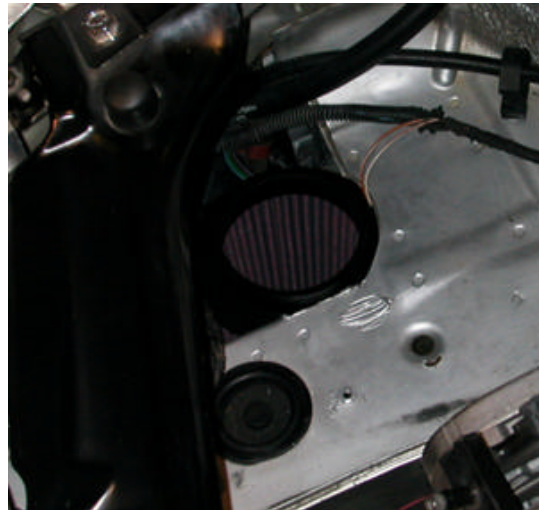
Step 11 (optional):

Remove the passenger front turn signal to give some room to work and see. This light is snapped in place and can be removed once the center light is popped out.



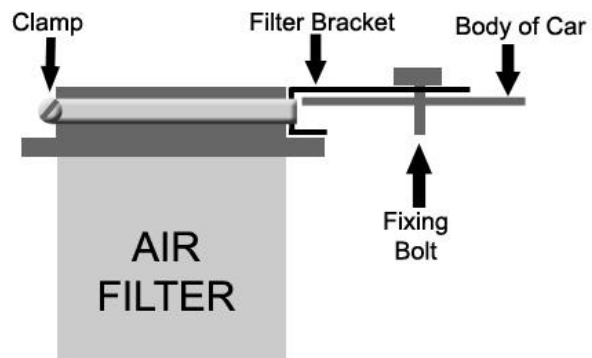
Step 12:

Slide the air filter into position.



Step 13:

The drawing left shows the layout to install the filter bracket. At this time slip a hose clamp around the bracket and orient it over the filter as shown in the drawing.



Step 14:

Slide the rubber MAF coupler over the MAF and fix it using a hose clamp.

Step 15:

Slip a loose hose clamp over the rubber HFM adapter and slide the long end of the carbon pipe into the rubber adapter. Leave the clamp loose at this time.

Step 16:

Slide the carbon pipe into the filter and just snug down the hose clamp around the filter. **DO NOT TIGHTEN THE CLAMP AT THIS TIME. Make sure the carbon pipe is AT LEAST 1" into the filter.** Line up the carbon pipe so that it is installed straight with nothing hitting it. Tighten the clamp between the MAF coupler and carbon tube at this time.

Step 17:

Drill a 7/64" hole in the body of the car where the hole on the filter bracket is. Once this is done, use a 7mm socket to tighten down the filter bracket with the included bolt. Be careful not to over-tighten the bolt as it will strip the threads below.

Make sure everything is lined up and then tighten the clamp around the filter.

Check to make sure all the connections are tight and that all cables have been re-installed.



IMPORTANT: Start the car and let it IDLE (DO NOT REV THE ENGINE!) for 5 minutes to allow the computer time to re-calibrate. After this, the vehicle is fully ready to drive.

A NOTE ON FILTER MAINTENANCE

The filter on your Carbonio Intake is washable and will last for many years if cleaned periodically. The best way to clean the filter is to remove it and service it with a commercially available cleaning kit. These kits are very inexpensive and require that you wash the filter and oil it after it has had the opportunity to dry. **DO NOT OVER-OIL THE FILTER. BE SPARING WITH THE OIL AS EXCESSIVE OILING CAN LEAD TO DAMAGE TO THE MAF SENSOR.**