



## **VW MK6 GTI 2.0 TSI TWINtercooler Installation Instructions**



Please thoroughly read through and familiarize yourself with these instructions in their entirety prior to beginning any part of the installation process of any component. Please also ensure that the vehicle and engine have cooled down sufficiently to avoid risking possible skin burns or other injury.

### **Tools required:**

Access to a vehicle lift or a floor jack and axle stands to support the vehicle

7mm socket, flat head and phillips screwdrivers

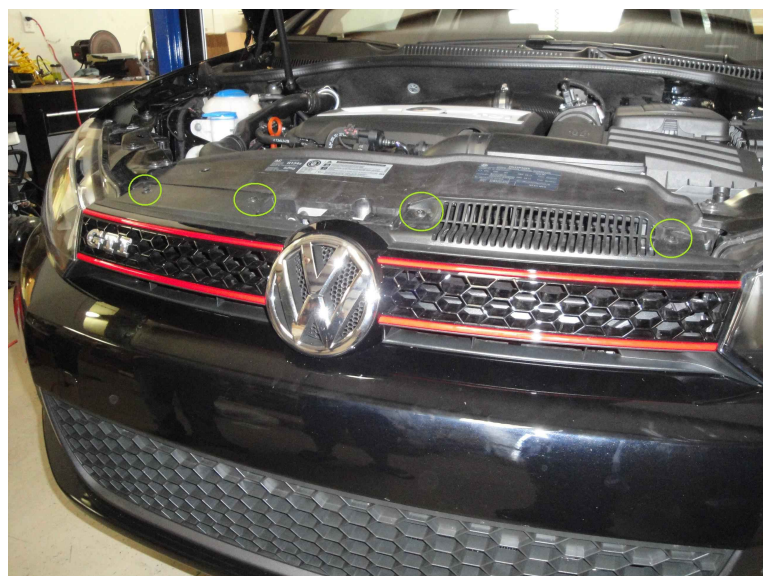
T25 torx bit

4mm or 5mm drill bit and power drill

Dremel power tool with cut-off wheel or pliers

Gloves and protective eyewear are also recommended

- Raise the vehicle on a lift or axle stands, open hood/bonnet, and remove the 4x T25 torx screws from the top edge of the front grill. Next remove the front grill by pulling it forward towards you. There will be small clips holding it in place along the lower edge where it meets the bumper. You may wish to apply some painters tape to the painted bumper in front of the grill so as to avoid possibly scratching the paint when removing the grill.



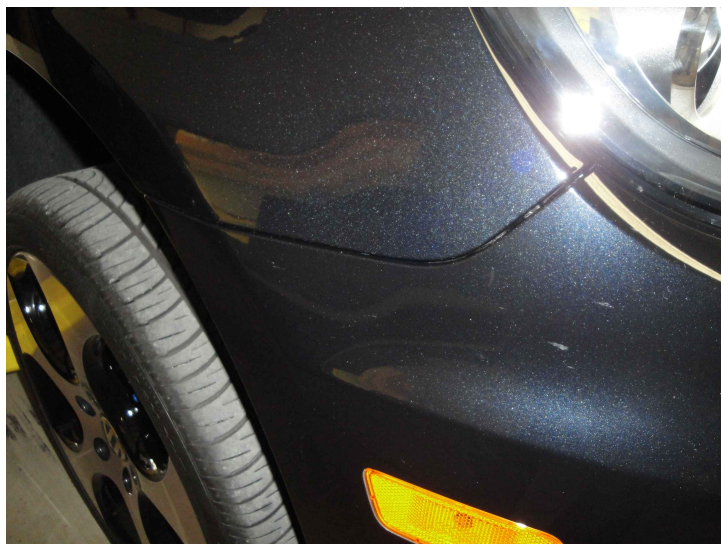
- Remove the 5x T25 torx screws from the leading edges of both front fender liners inside each wheel well. One T25 torx screw on each side will be pointed upwards at the corner where the bumper meets the fender.



- Remove all of the T25 torx screws from the underside of the front bumper and the lower under tray. There are 18-20 screws total.

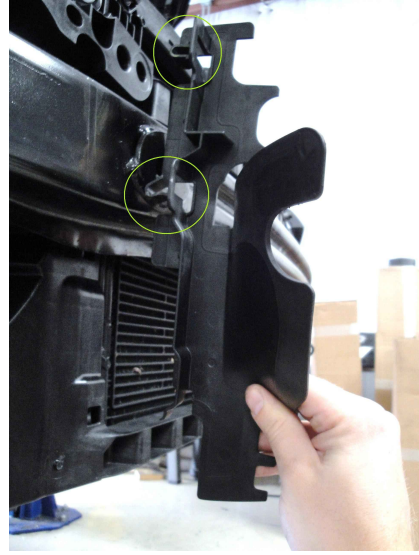


- Near to each wheel well, lightly pull the bumper edge outwards from the fenders on each side to disengage the clips holding the bumper in place.

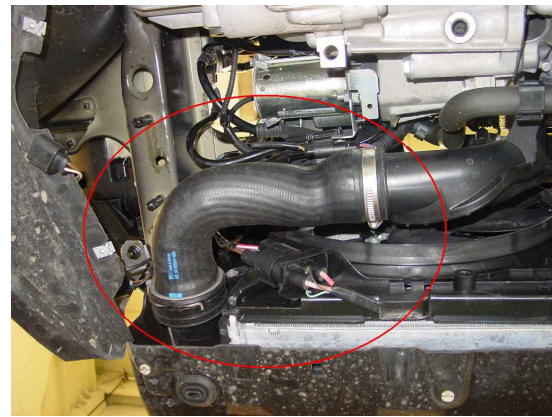
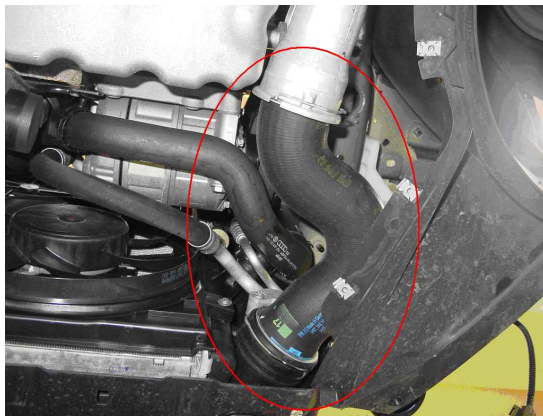




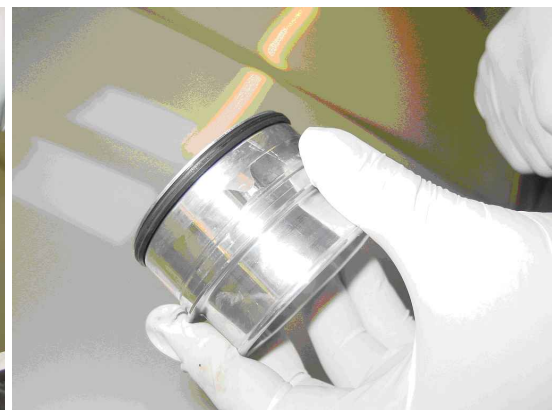
- The bumper now needs to be slid forward and can now be lifted clear of the front end. Be sure to disconnect the wiring connectors to the fog lights, side market lights, if your vehicle is so equipped, as the bumper is being moved away from the vehicle. If your vehicle is equipped with headlight washers, you will also need to disconnect the fluid hose and either cap it or allow the fluid to drain into a container to be refilled later.
- Then remove the styrofoam from the bumper support as well as both plastic air guides and work them out from behind the bumper support. They have two plastic push in clips that need to be disconnected to remove them. This can be done with a flat blade screw driver.



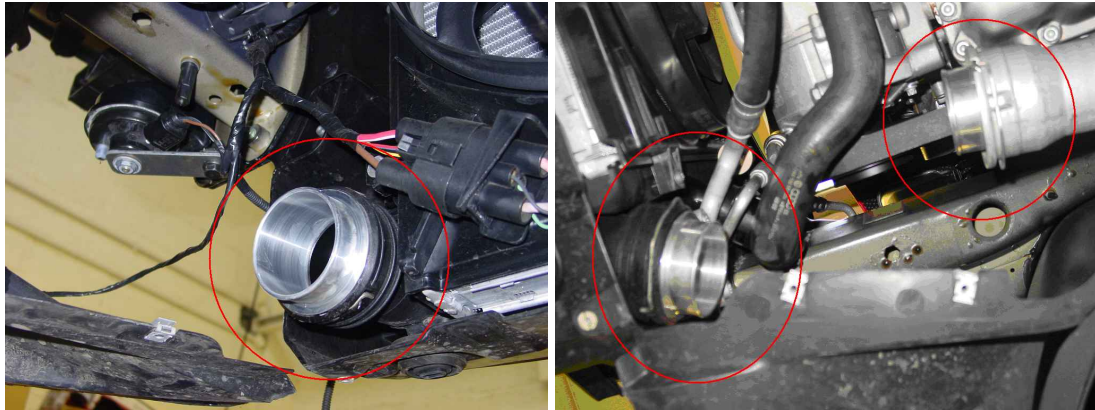
- Remove both lower OEM intercooler hoses; each of these are held in place via a spring clip and/or a hose clamp. Pry the clip away with a flat end screwdriver to aid removal of the metal hose end fitting. These hoses will not be reused, however, the seals and clips are required later so remove them and set them aside.



- Remove the doubled o-ring seals from the original intercooler hoses and fit these to the included corresponding new aluminium hose couplings as pictured below.



- Fit the new hose couplings into their respective fittings on the original intercooler and the turbo outlet pipe on the right side running alongside the engine. Make sure the spring clips are afixed securely to prevent these couplings from being blown out of the fixings under boost.



- Remove the horns from their brackets and then remove each bracket from the car and refit the horns as per the pictures below with the new supplied brackets so they are now positioned higher. This is to allow extra space for the routing of the new hoses. If you do not wish to use the new supplied brackets, you may also just bend the OEM brackets to reposition the horns.



- The external temperature sensor will need to be removed from the front bumper support by lifting the little plastic tab securing it and pulling down on the sensor. The metal bracket holding the sensor will also need to be removed. It can be cut off with a cutting tool, or you can simply bend it back and forth until it snaps off. The sensor will be remounted on the Forge intercooler later.



- You will next position the Forge intercooler in place below the front bumper support. The top of the Forge core will need to be centered and as high as possible, flush up against the horizontal bottom of the bumper support, not the lip that points downwards at the back of the support. You may need to use a box or a friend to hold the core in position for the next step. The intercooler brackets should be positioned just outside of the vertical step in the plastic support.





- Since there are no pre-existing mounting holes on the MK6 application, the hole locations will need to be marked and drilled. Please reference the pictures below. You MUST use the LOWER hole on the upper bracket for the MK6 application. Using a marker, mark this and the lower bracket hole locations, and carefully drill them out with the 4mm or 5mm drill bit. These hole locations were selected because there is an ample amount of clearance (*about 2 inches*) behind the plastic support, however, please be mindful that the A/C condenser end tanks are positioned behind this plastic support, so do not insert the drill bit too far when drilling.



With the mounting holes drilled, position the Forge intercooler core in place and secure it using the supplied self-tapping screws and washers. If you encounter any resistance tightening the screws, please check the available depth of the hole to ensure that you are not touching the A/C condenser end tanks with the screws. Add washers as necessary if there is any conflict behind the holes.



- Now fit the supplied silicone hoses to join together all of the intercooler and piping connections. A small amount of trimming may be required on the hoses as they are slightly oversized intentionally since they are used on the same engine in multiple applications. Once you are satisfied with the fitment, then secure all of the hoses with the supplied hose clamps using a 7mm socket or flat blade screw driver.



- If your car is equipped with the DSG transmission, you may need to trim the middle connection on the driver's side hose that connects to the outlet of the OEM intercooler. The overall width of the hose at this point may be too wide for the space permitted by the extra size of the DSG transmission casing and trimming may be necessary to prevent rubbing of the hose on the transmission. This may not be required on all cars, but be sure to make straight cuts maintaining the existing angle to the end of the hose connection.







- The external temperature sensor can now be clipped into the provision provided on the driver's side end tank bracket of the Forge intercooler just above the hose connection.
- With the intercooler and the hoses mounted securely, you can now reinstall the front bumper and under tray in the reverse order that they were removed during the previous steps, ensuring that all electrical connections are reconnected. (fog lights, side marker lights, etc.) Also reinstall the front grill.
- Should the intercooler itself or the hoses come in contact with rear side of the front bumper at any location, some minor trimming to the back side of the bumper or the bumper grills may be necessary though we did not need to do so during our installation of the final production version of this kit.

As always, with any questions or concerns about this product or anything else, please feel free to contact your local or preferred Forge Motorsport dealer/installer, or you may contact us directly.

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