

## **Integrated Engineering VW GTI, Golf R, & Golf (MK7 1.8T & 2.0T) Cold Air Intake Install**

Thank you for purchasing another high quality Integrated Engineering product! This instruction guide is used for installation of Integrated Engineering's Cold Air Intake Kit for MK7 1.8T & 2.0T TSI applications. This kit needs to be installed by a professional or an experienced technician. Integrated Engineering is not responsible for any damage caused by incorrect installation.

### **Kit Contents:**

- (1) Heat Shield
- (1) Heat shield mount bracket
- (2) 4mm button head cap screws
- (2) 10mm nylon lock nuts
- (1) 5" cone air filter
- (1) Air filter clamp
- (1) Turbo inlet pipe
- (1) Turbo inlet silicone coupler
- (1) Heat shield silicone coupler
- (1) 80-100mm hose clamps
- (2) 70-90mm hose clamps
- (1) Silicone coolant hose
- (2) Coolant hose pinch clamps
- (2) Coolant barb caps

### **Required Tools:**

- Pliers or hose clamp tool
- Phillips screwdriver
- Flathead screwdriver
- 4mm allen wrench
- Ratchet socket wrench
- 10mm socket
- 7mm socket
- T25 screwdriver
- Wire cutters or pinch clamp tool

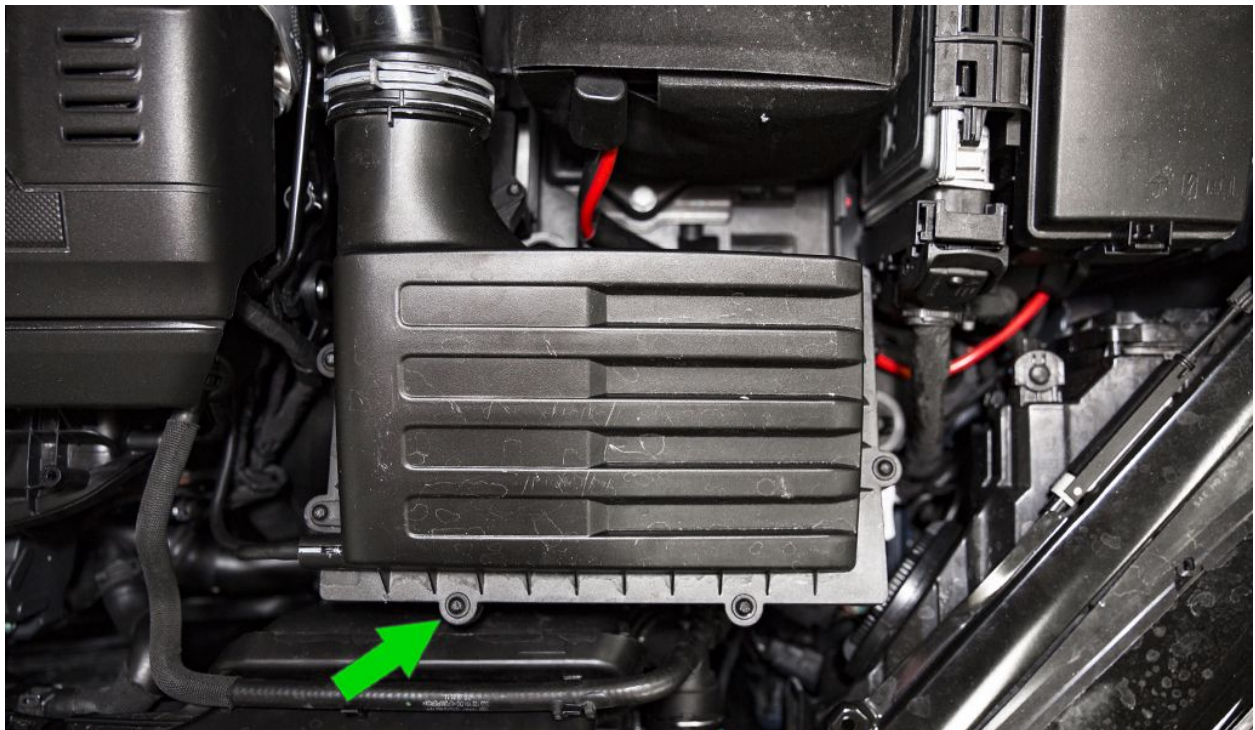
Open your IE Cold Air Intake Kit, inspect all components, and verify their quantities.



Park your car on level surface and apply the parking brake or rack your car on a auto lift. It is also recommended to allow the car to cool before beginning this install procedure.



Start the installation procedure by loosening the eight T25 bolts from factory airbox lid. These do not fully remove, just loosen them until they are spinning freely.





Remove vacuum hose from the air box lid, pull back on the vacuum line and push the edge carefully off with a flat head screwdriver.



Use a pair of pliers or hose clamp pliers to remove the hose clamp from the airbox side of the turbo inlet hose and completely remove the airbox lid.





Remove the air filter by simply pulling it out.

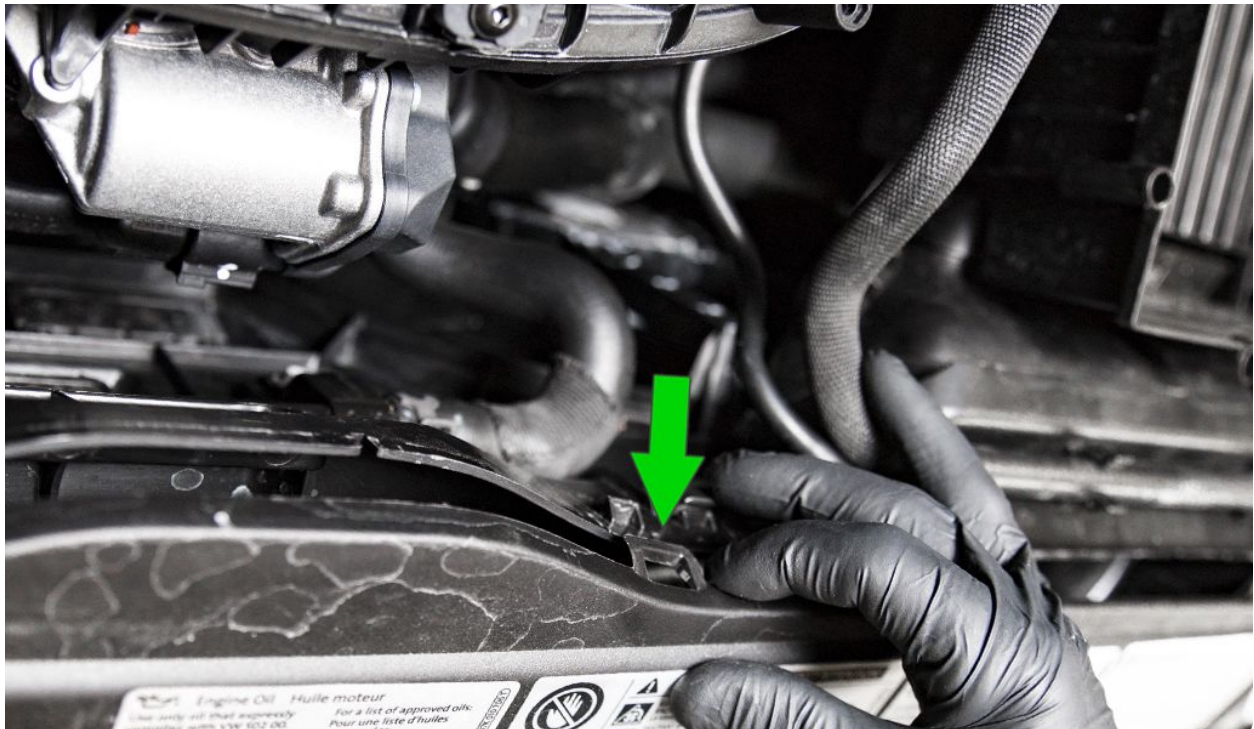




Remove the two T25 bolts from the sides of the upper air box inlet cover.



Pull to release the tab on the back side of the upper airbox inlet cover, then fully remove it.



Carefully release the coolant line from the retaining clips by carefully pulling up on the hose.

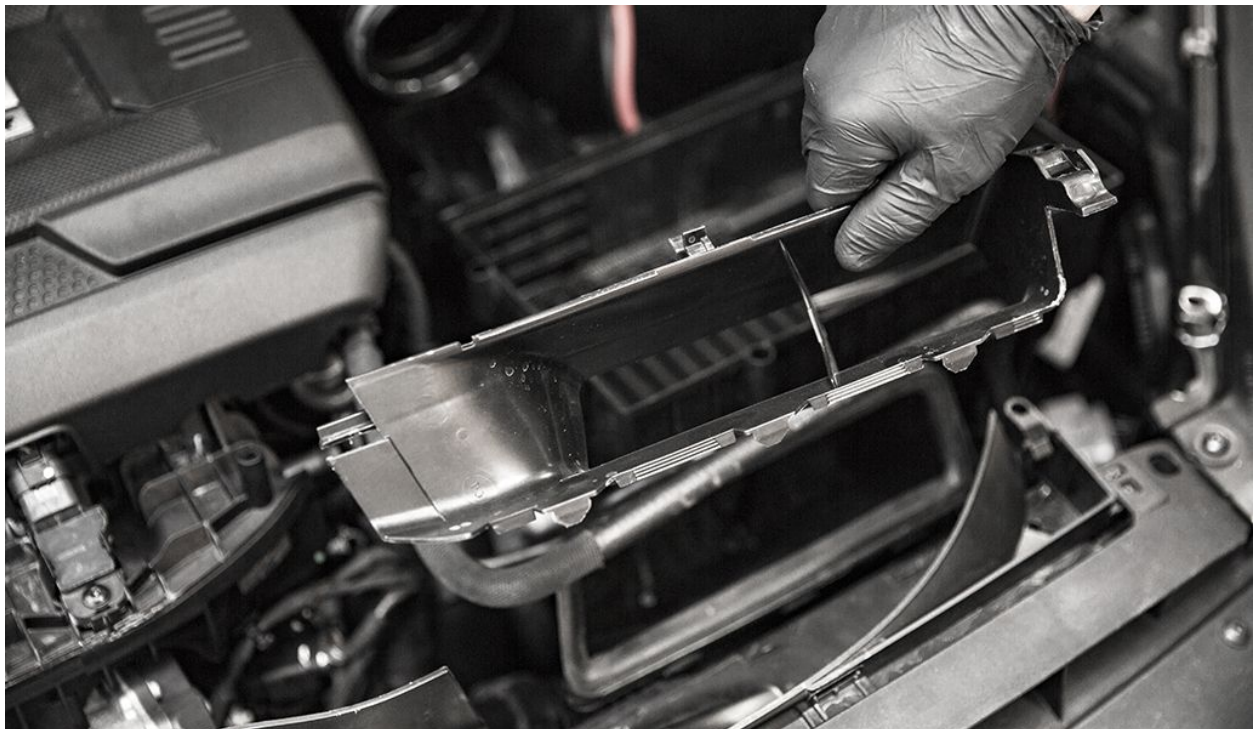
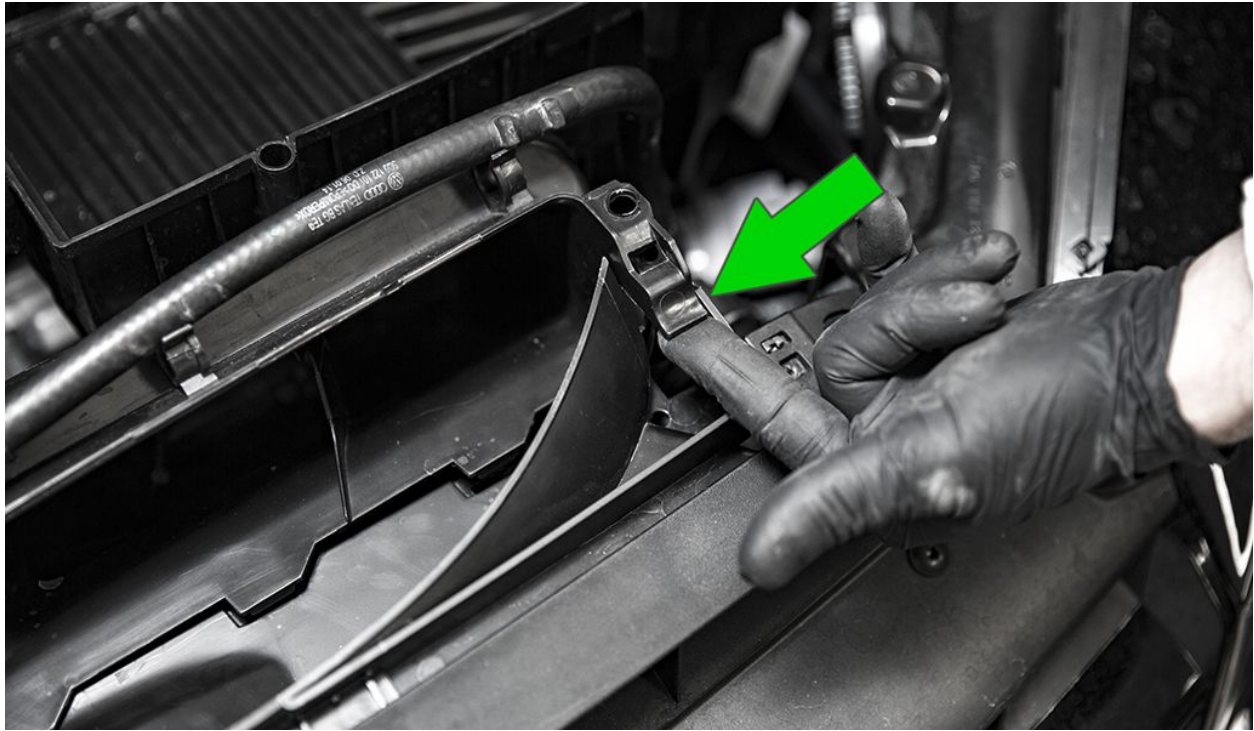


Remove the 2 T25 bolts securing the lower portion of the intake inlet to the car.



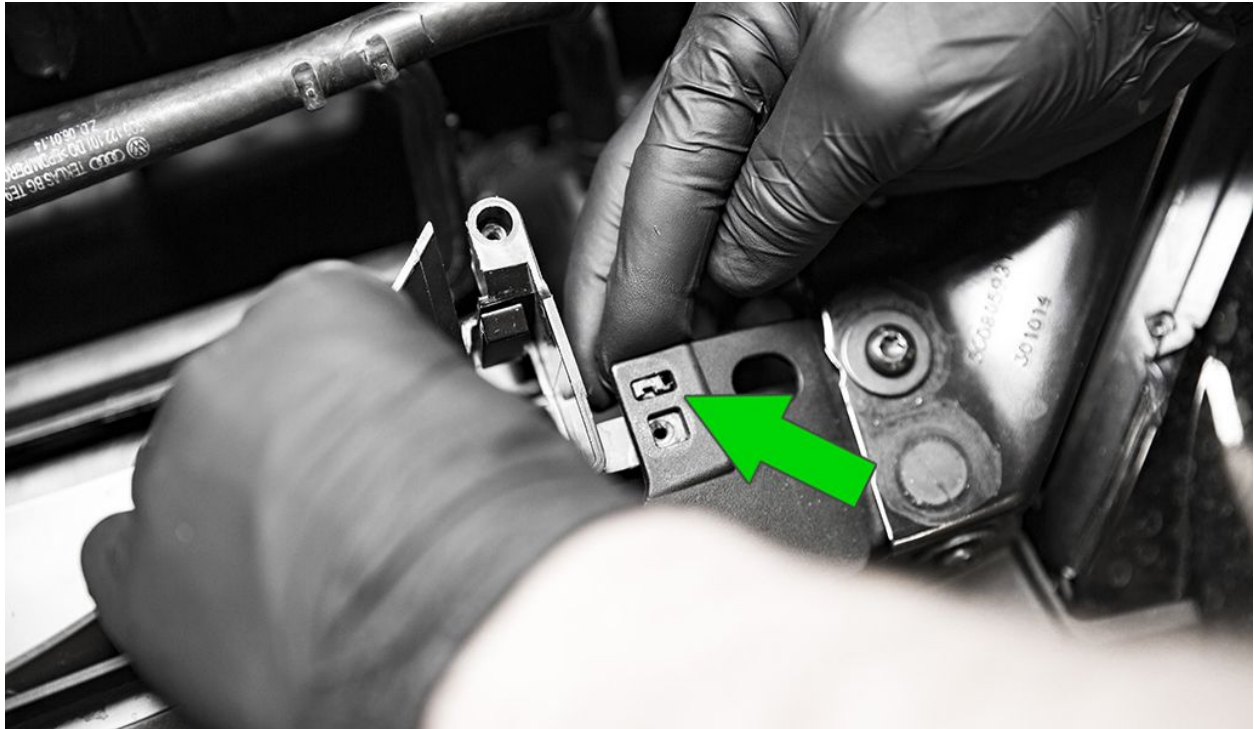


Remove the far portion of the intake inlet box located on the driver's side by pulling up on the lock tab.

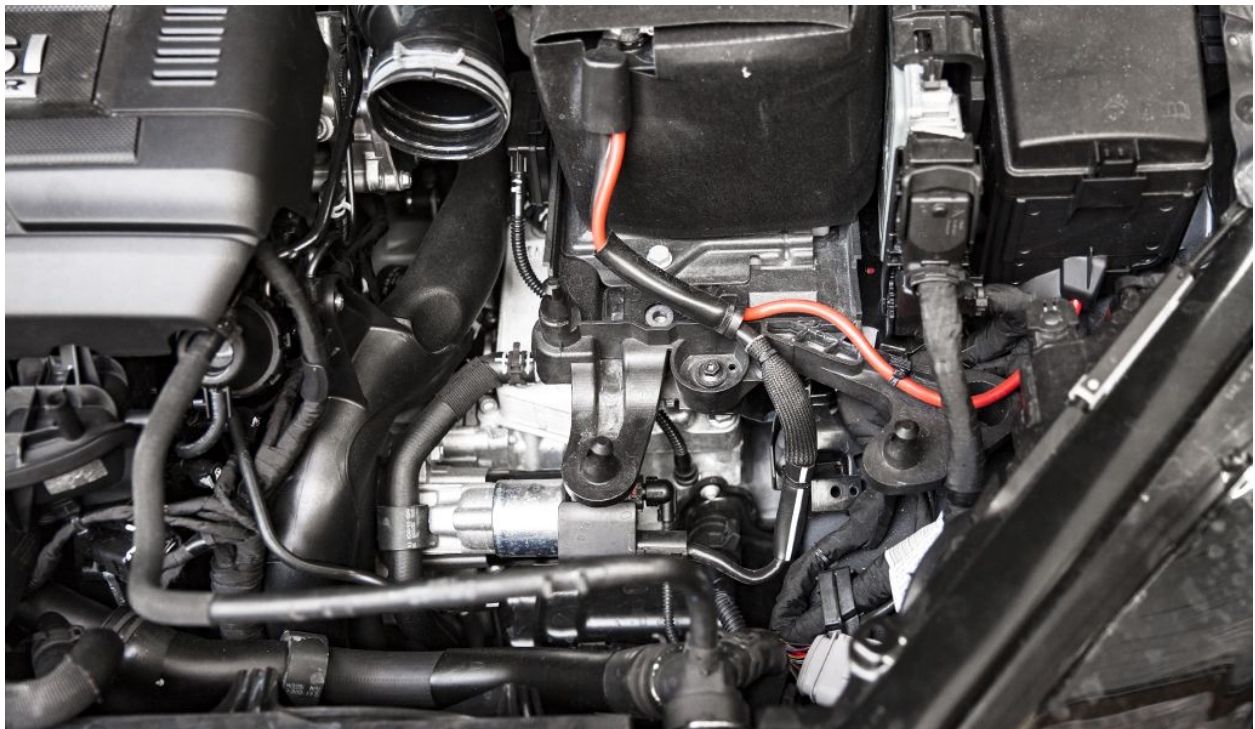




You can now remove the entire intake inlet box that spans the front of the car by pulling up on the lock tabs located on both corners.



Carefully pull up on the factory lower airbox to release it from the battery tray and remove it. The airbox is held down by 3 rubber grommets securing it to plastic posts.





Loosen the hose clamp on inlet pipe turbo side using a screwdriver or 7mm socket. Fully remove the turbo inlet pipe and set the factory hose clamp off to the side, you will re-use it.



Reusing the factory hose clamp, install your new IE turbo inlet silicone piece onto the turbo inlet. Tighten the lower clamp firmly, install the supplied upper clamp and leave it loose.



Assemble the heat shield mount to the heat shield using the supplied button heads (2) and nylon lock bolts (2). Firmly tighten using a 4mm allen wrench and 10mm socket or crescent wrench.





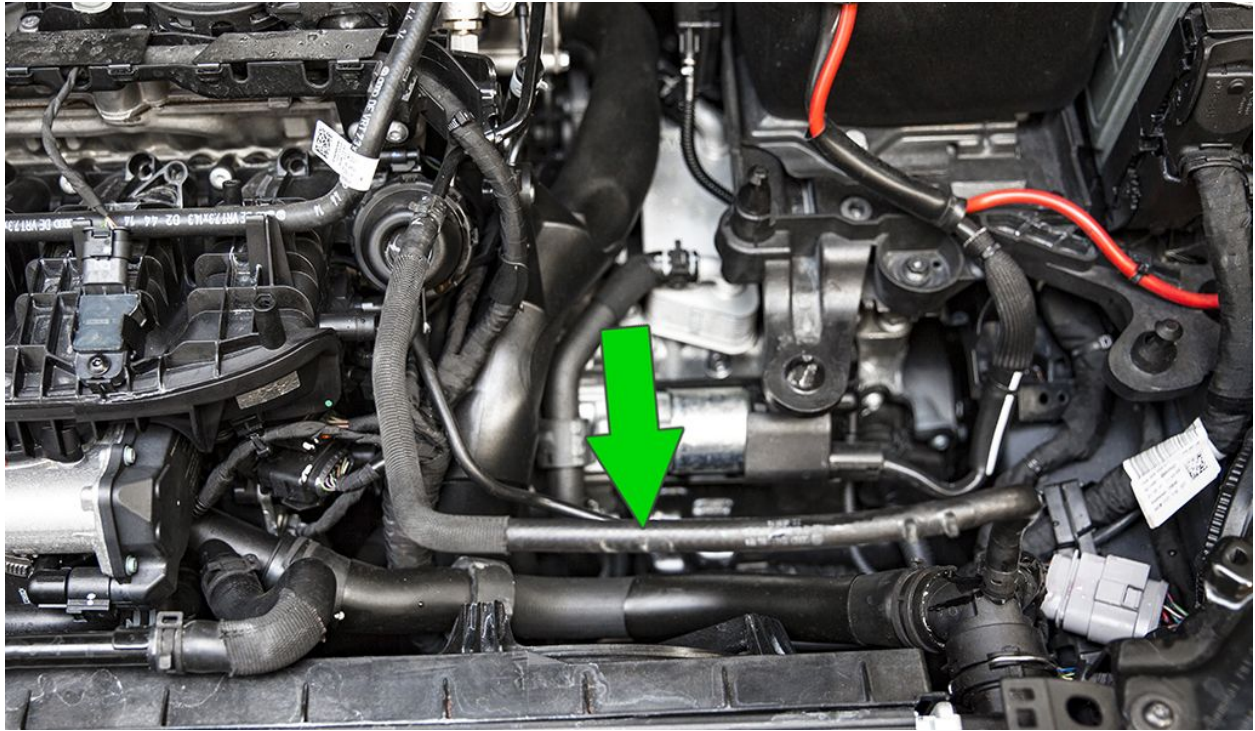
Press firmly to seat the included rubber grommets into the heatshield mount bracket. The flat side of the grommet with the IE part number will face down once installed.



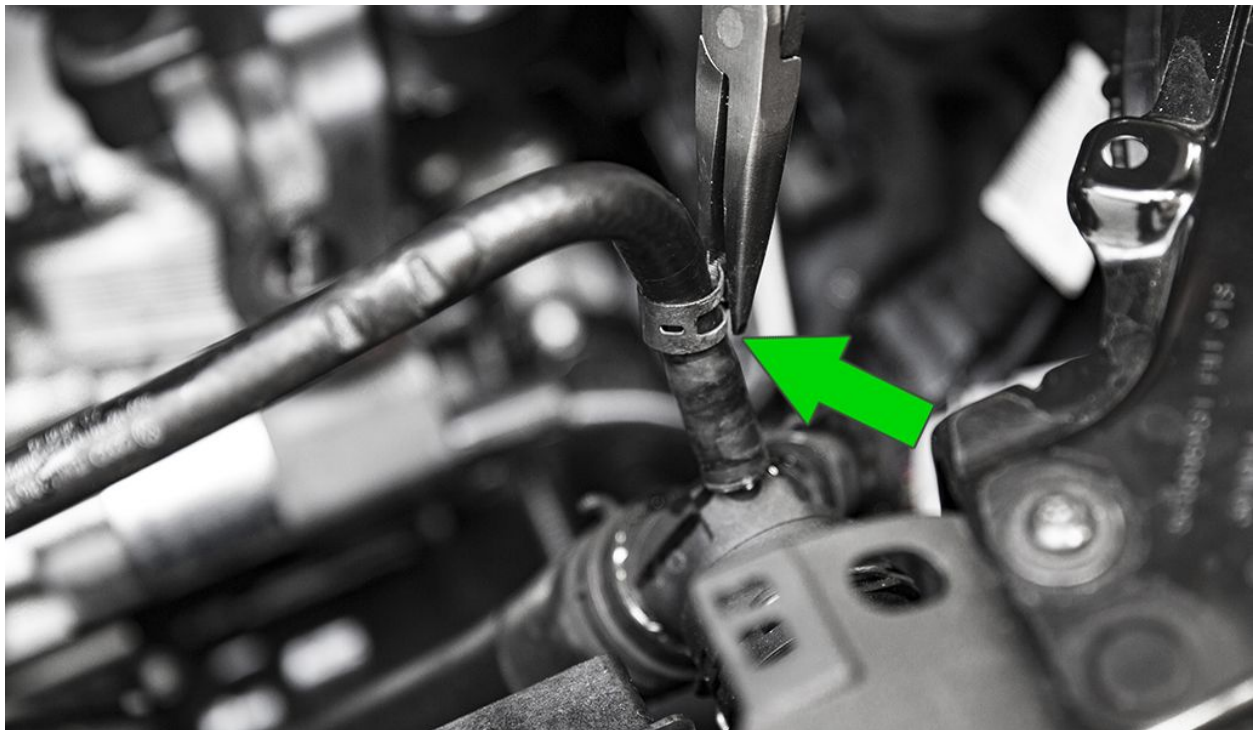
Remove the engine factory cover by pulling up on the two sides firmly.



In the following steps you will be removing a factory coolant line. This line is located just in front of the removed intake box attached to the upper radiator hose.

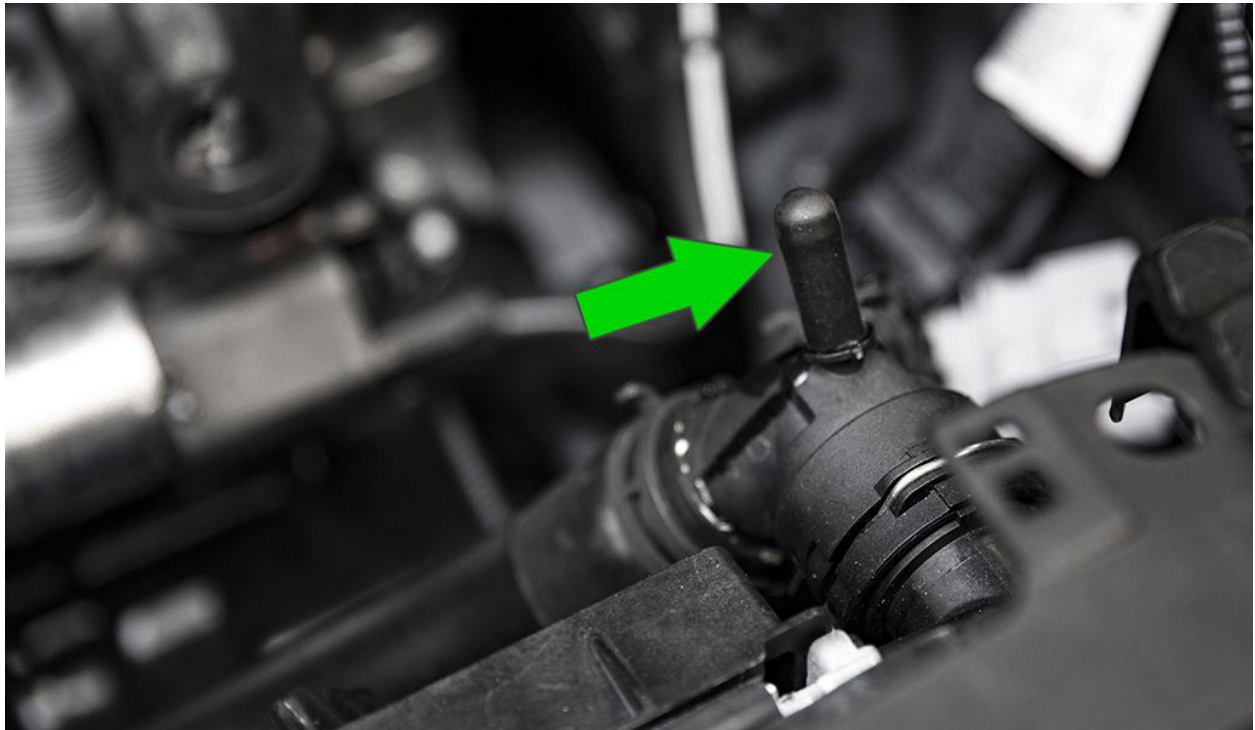


Using pliers, slide the coolant line hose clamps above the the coolant barbs on both ends, do not remove the coolant hose in this step.

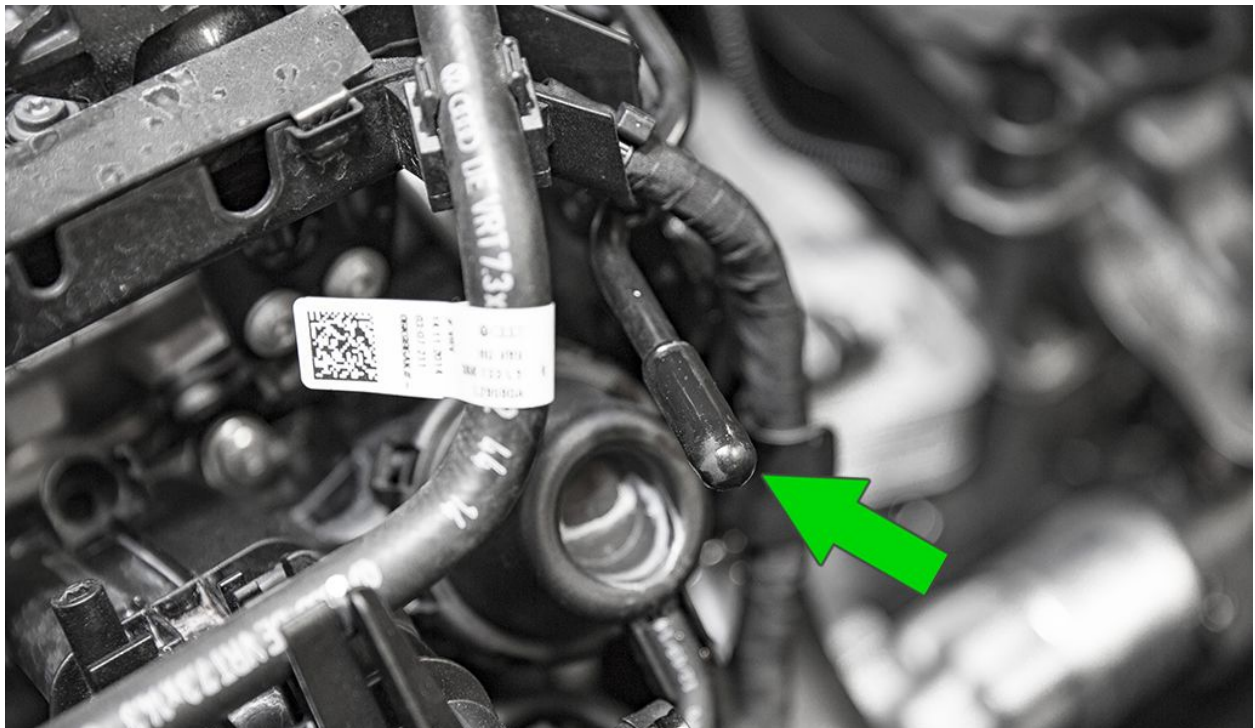




We have included two silicone vacuum caps to help reduce the amount of coolant loss during the removal. With one of the supplied vacuum caps in hand, quickly remove the hose connected to the upper radiator hose barb and replace with vacuum cap.



Now remove the opposite end of the coolant line connected to the metal hard line, and replace with second vacuum cap.



Install the new IE coolant hose to the hardline line and then to the radiator hose barb. Install one side at a time as quickly as possible to limit the amount of coolant loss.

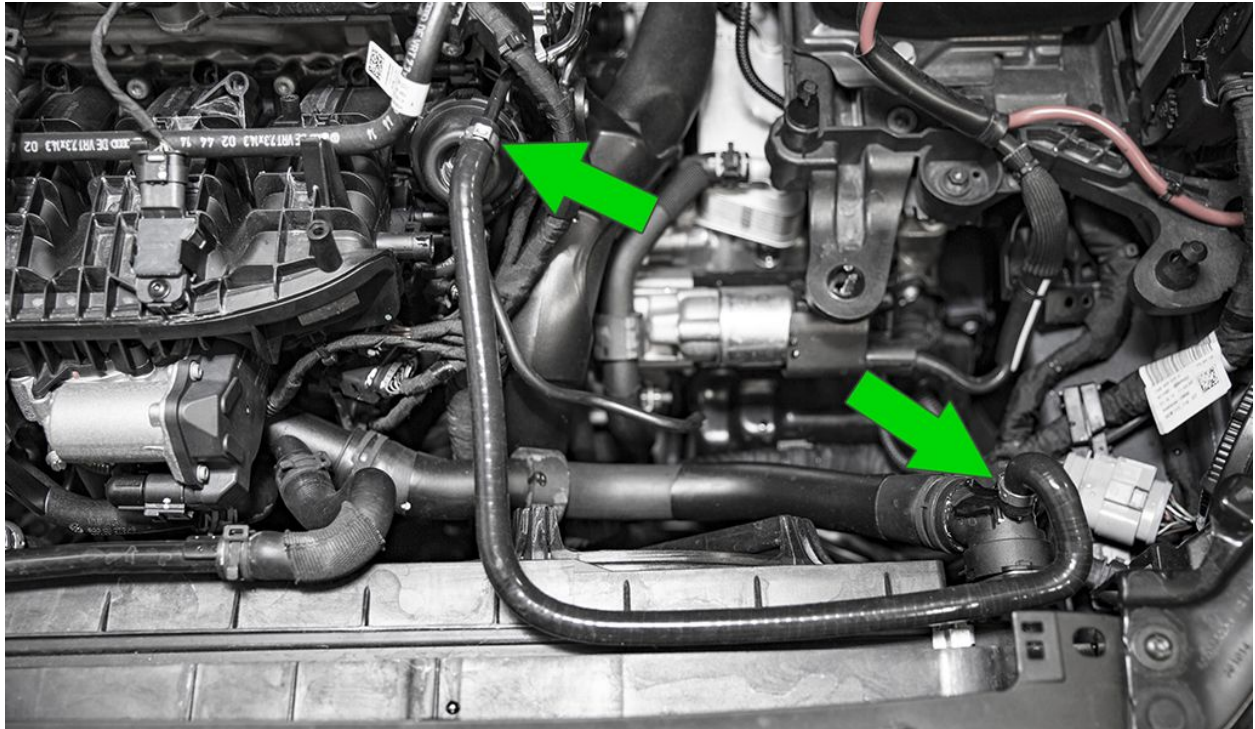


With the coolant line installed, tighten the pinch clamps using either the VW/Audi factory tool (if available) or wire cutters.

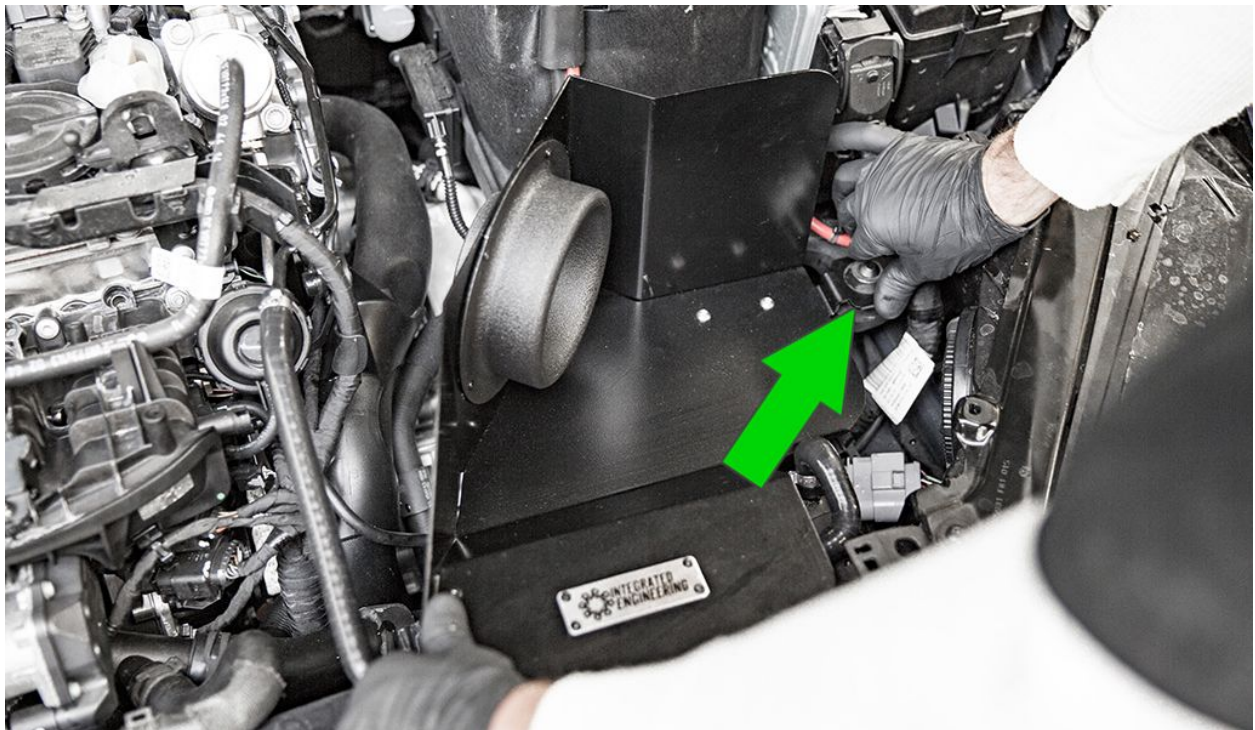
*\*Note: the coolant hose may feel loose in this step, give it time. The coolant will dry up under the*



*silicone hose and it will become very tight in a short amount of time.*



Place the assembled heat shield in the car and carefully line up the mounting grommets above the factory battery tray posts. Once aligned, push down above the grommets to lock into place.



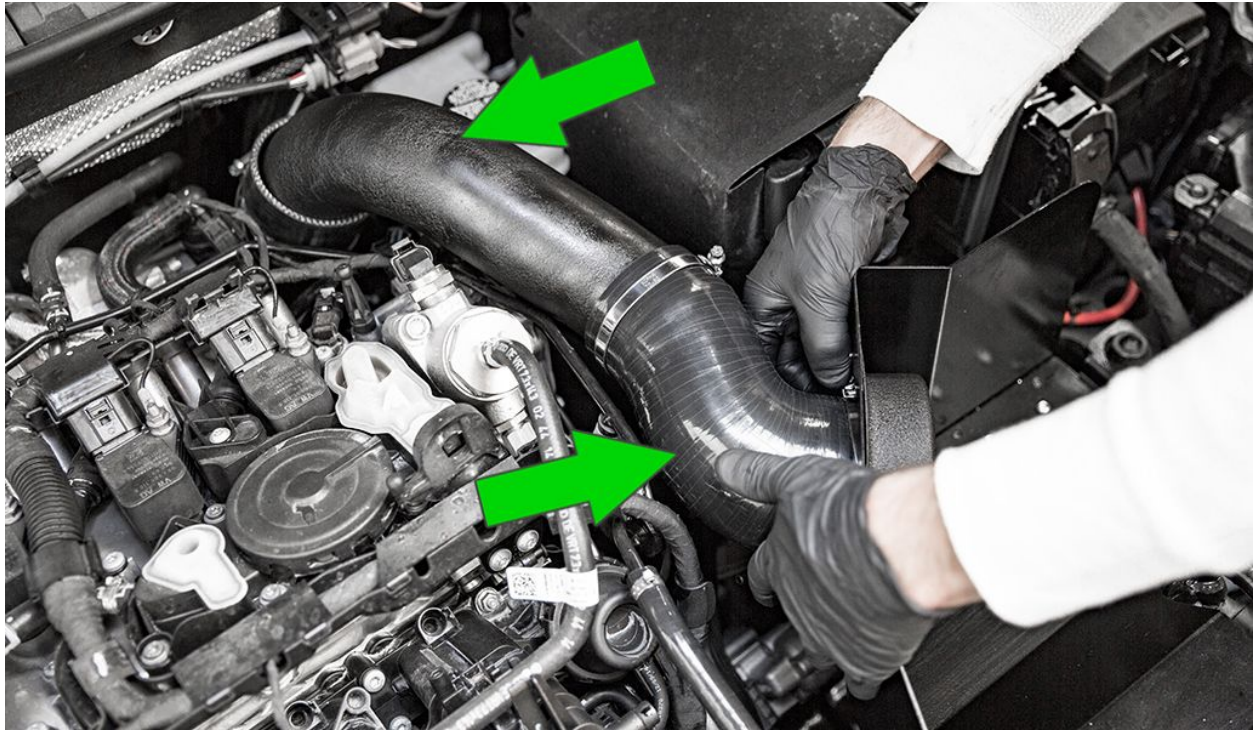
Pre-install the long-leg side of the aluminum pipe into the small diameter side of the IE silicone coupler with clamps. Do not tighten the hose clamps in this step.



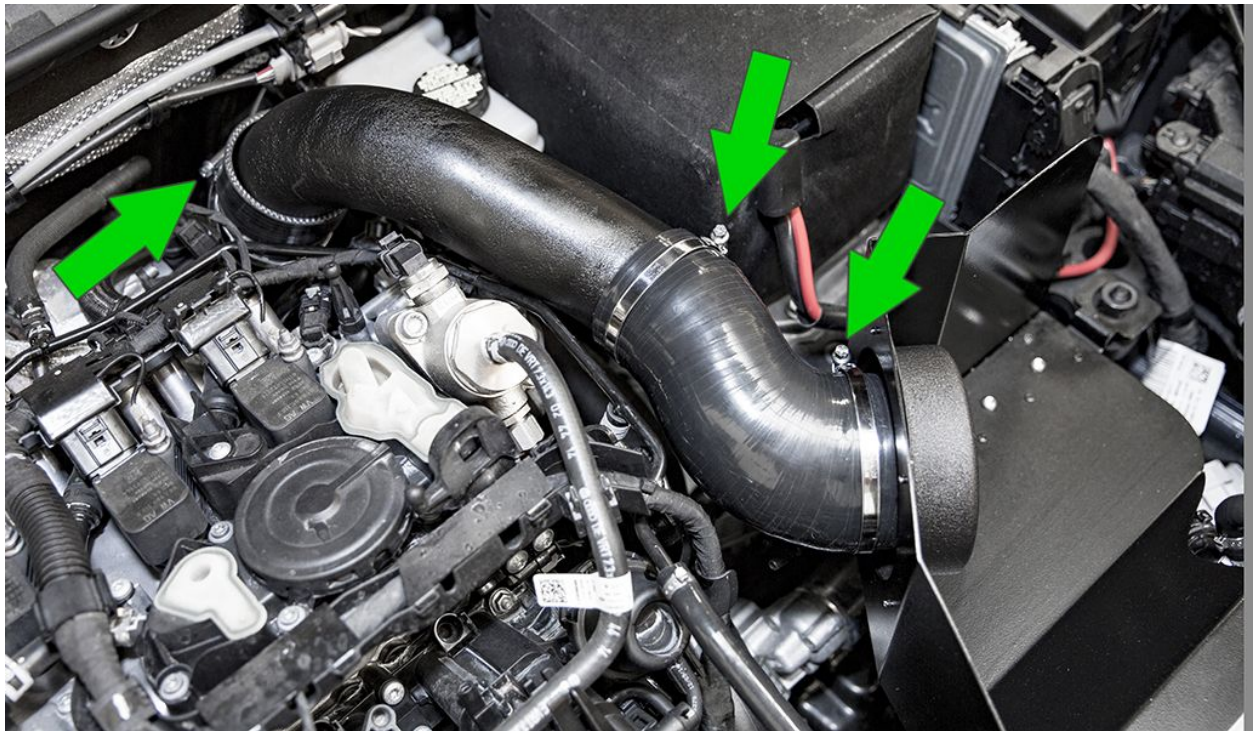
Place the intake pipe and coupler in place. Insert the intake pipe into the installed turbo silicone coupler and connect the opposite side to the heat shield. Re-align the silicone coupler and turbo



inlet so everything sits in place relaxed without tension.

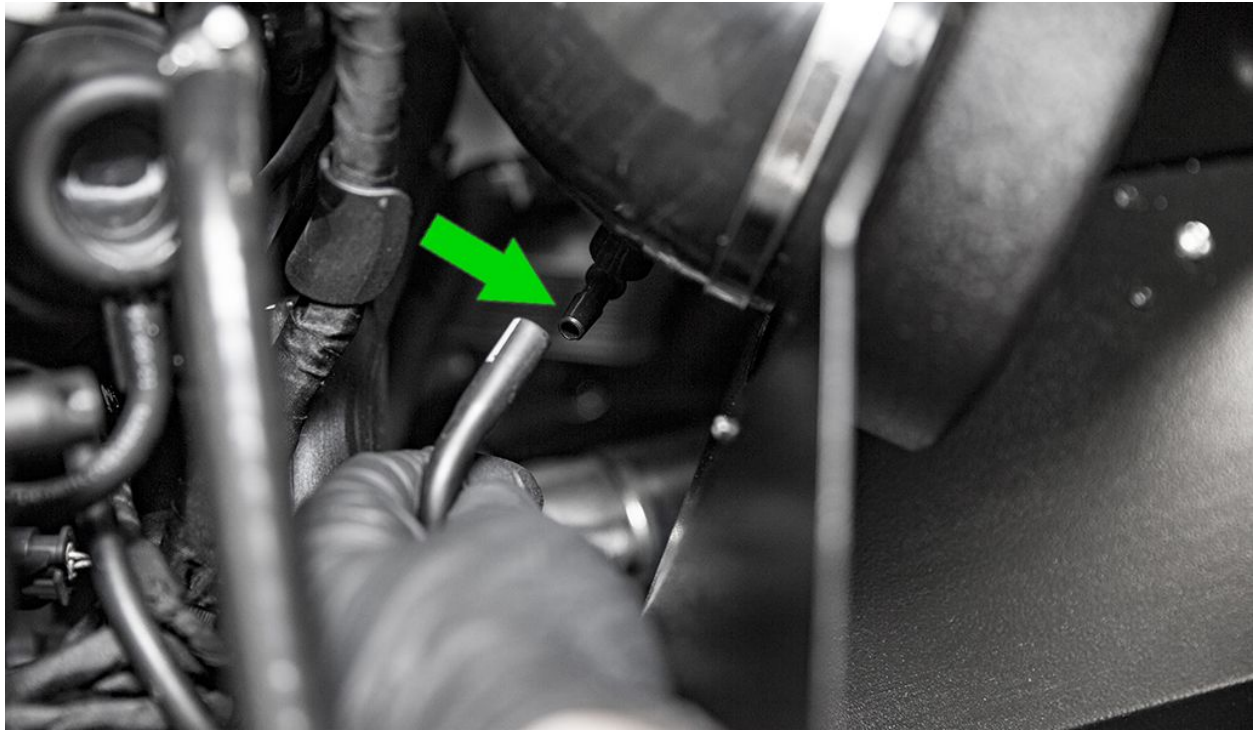


Once you are happy with the intake position, firmly tighten all the hose clamps.





Install the factory vacuum hose onto the 90 degree barb fitting located on the underside of the silicone coupler.

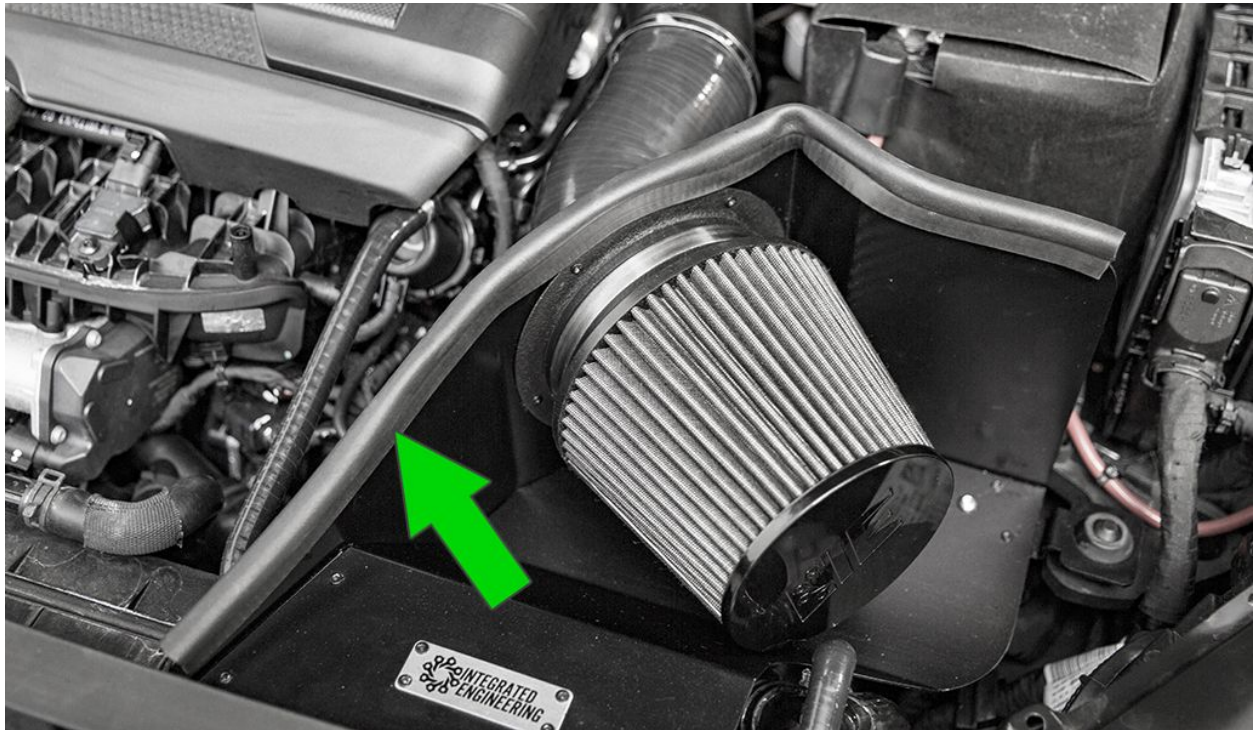


Install the air filter and clamp onto velocity stack. For maximum horsepower output, make sure the IE logo on the filter is positioned into a legible position before tightening the hose clamp.





Install the trim seal at one end of the heat shield and push down firmly on the seal to lock into place around the entire edge.



Verify your coolant level, all hose clamp connections are tight, and that your heat shield is fully installed. Start the car and inspect for any leaks or rubbing components. Enjoy the performance,

looks, and sound of your new IE Cold Air Intake!



Thank you for purchasing another Integrated Engineering product. We are dedicated to serving your VW/Audi engine and performance needs. Please check our website frequently for new product releases. If you have any questions or concerns about this product please do not hesitate to contact us.

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