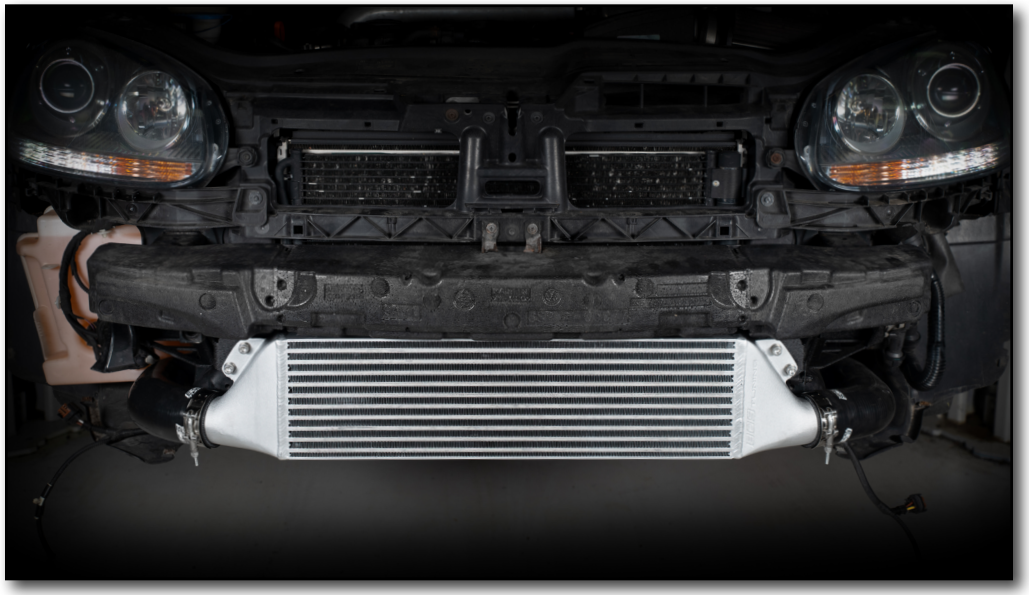
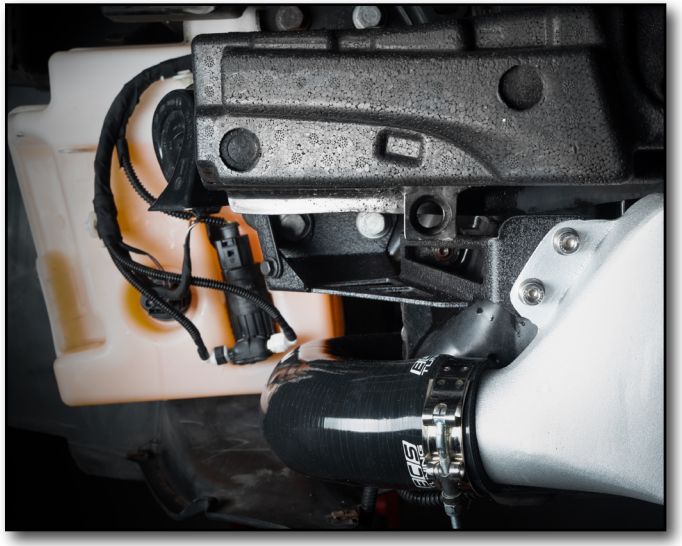
VW MK5 Front Mount Intercooler Kit
Installation Instructions - Click HERE to shop

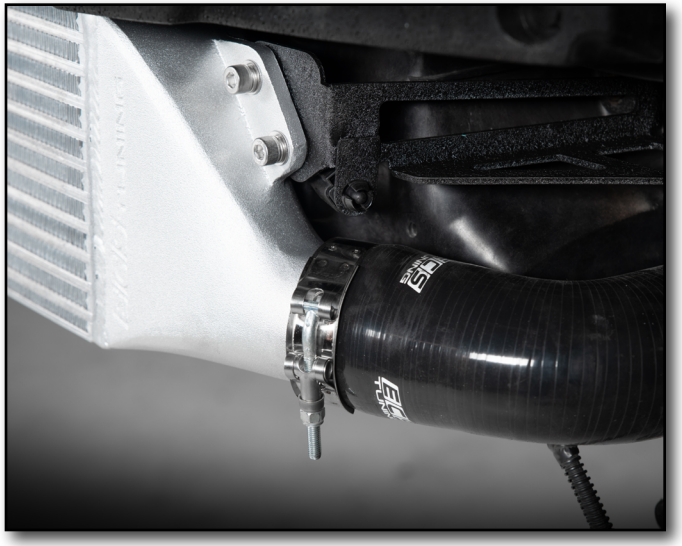
Skill Level 1 - Easy









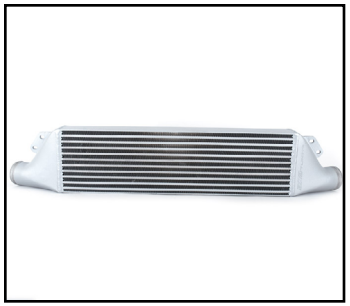


Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

TABLE OF CONTENTS

Required Tools and Equipment pg.3
Installation and Safety Information pg.4
Removing the Stock Components pg.5
Installing the Intercooler Kit pg.12

KIT CONTENTS



Intercooler
(**QTY 1**)



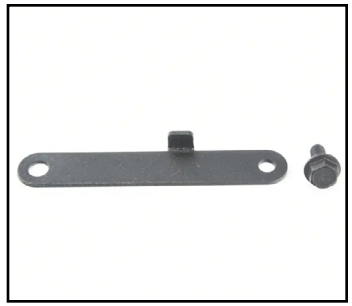
RH Intercooler Bracket
(**QTY 1**)



LH Intercooler Bracket
(**QTY 1**)



LH Horn Bracket
(**QTY 1**)



RH Horn Bracket
(**QTY 1**)



Inlet Coupler
(**QTY 1**)



Outlet Coupler
(**QTY 1**)



68-74mm Clamp
(**QTY 4**)



Hardware Pack
(**QTY 1**)



Turbo Outlet Pipe Adapter
(**QTY 1**)

REQUIRED TOOLS

Note: The tools required for each step will be listed by the step number throughout these instructions.

Standard Automotive Tools

Required For This Install

Available On Our Website

- **Protecta-Sockets (for lug nuts)** ..... ES#2221243
- **⅜" Drive Ratchet** ..... ES#2765902
- **⅜" Drive Torque Wrench** ..... ES#2221245
- ⅜" Drive Deep and Shallow Sockets ..... ES#2763772
- **⅜" Drive Extensions** ..... ES#2804822
- **Hydraulic Floor Jack** ..... ES#240941
- **Torx Drivers and Sockets** ..... ES#11417/8
- ½" Drive Deep and Shallow Sockets ..... ES#2839106
- ½" Drive Ratchet
- ½" Drive Extensions
- ½" Drive Torque Wrench ..... ES#2221244
- ½" Drive Breaker Bar ..... ES#2776653
- Bench Mounted Vise
- Crows Foot Wrenches
- Hook and Pick Tool Set ..... ES#2778980
- **¼" Drive Ratchet** ..... ES#2823235
- ¼" Drive Deep and Shallow Sockets ..... ES#2823235
- **¼" Drive Extensions** ..... ES#2823235
- Plier and Cutter Set ..... ES#2804496
- **Flat and Phillips Screwdrivers** ..... ES#2225921
- **Jack Stands** ..... ES#2763355
- Ball Pein Hammers
- Pry Bar Set ..... ES#1899378
- Electric/Cordless Drill
- Wire Strippers/Crimpers
- Drill Bits
- Punch and Chisel Set
- **Hex Bit (Allen) Wrenches and Sockets** ..... ES#11420
- Thread Repair Tools ..... ES#1306824
- Open/Boxed End Wrench Set ..... ES#2765907

INSTALLATION NOTES

- **RH** refers to the ***passenger side*** of the vehicle.
- **LH** refers to the ***driver side*** of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.

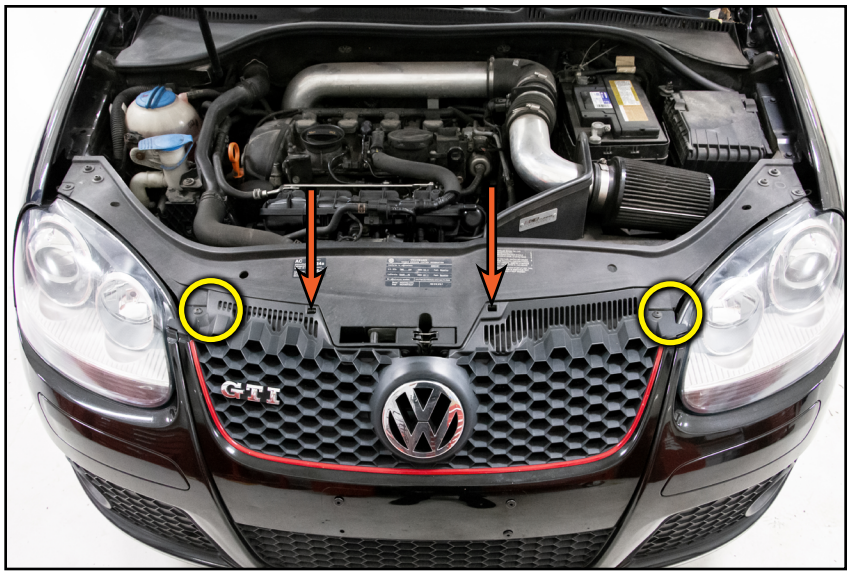


NEVER get underneath a vehicle that is supported only by a jack, and ALWAYS make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK COMPONENTS

Step 1: T25 Torx

Remove the two screws (circled in YELLOW) and release the two tabs (arrows) which secure the grille to the core support.



Step 2: T25 Torx

Remove the two screws (circled in YELLOW) then remove the grille by pulling it towards the front of the vehicle and free from the bumper.



REMOVING THE STOCK COMPONENTS

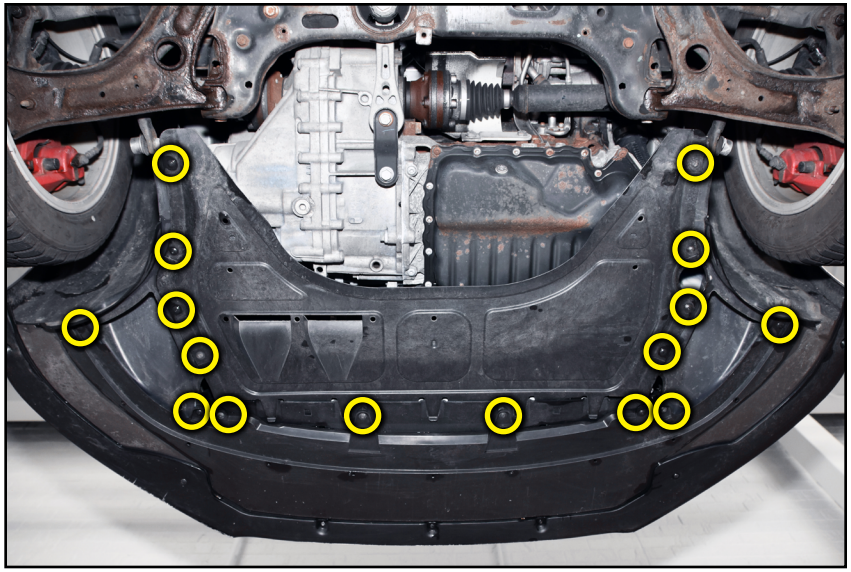
Step 3: T25 Torx

Certain vehicles have two additional screws which secure the bumper to the core support. If equipped, remove these screws (circled in **YELLOW**) before moving forward.



Step 4: T25 Torx

Remove the screws (circled in **YELLOW**) which secure the belly pan, fender liners, and bumper to the vehicle. Remove the belly pan from the vehicle.

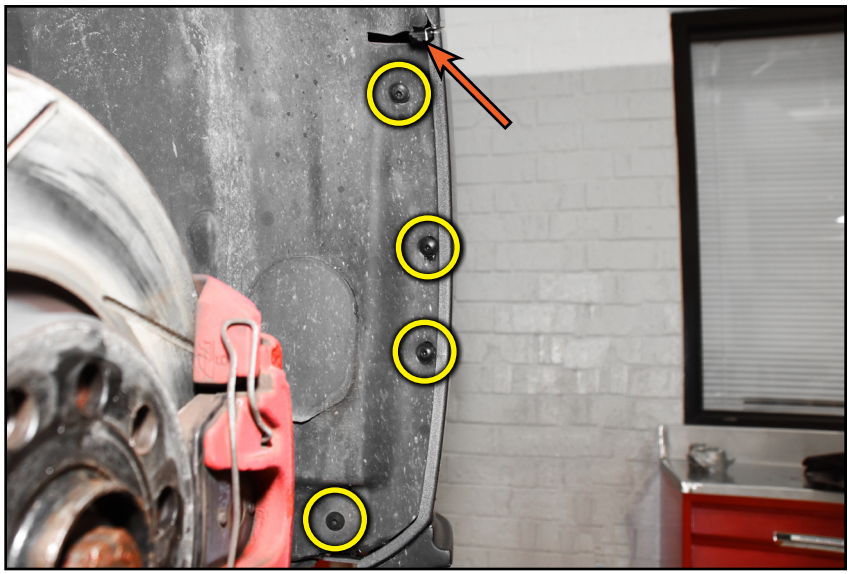


REMOVING THE STOCK COMPONENTS

Step 5: 17mm Protecta-Socket & Breaker Bar, T25 Torx

With the front wheels removed, remove the screws (circled in **YELLOW**) which secure the fender liner to the sides of the bumper.

Remove the vertical screw (arrow) which secures the corner of the bumper to the fender above.



Step 6:

Before removing the bumper, disconnect the side marker bulbs (highlighted in **RED** in photo 1) and the fog light connectors (highlighted in **RED** in photo 2) if equipped.





REMOVING THE STOCK COMPONENTS

Step 7:

Carefully (but firmly) pull the bumper forward and away from the fenders as shown.



Step 8:

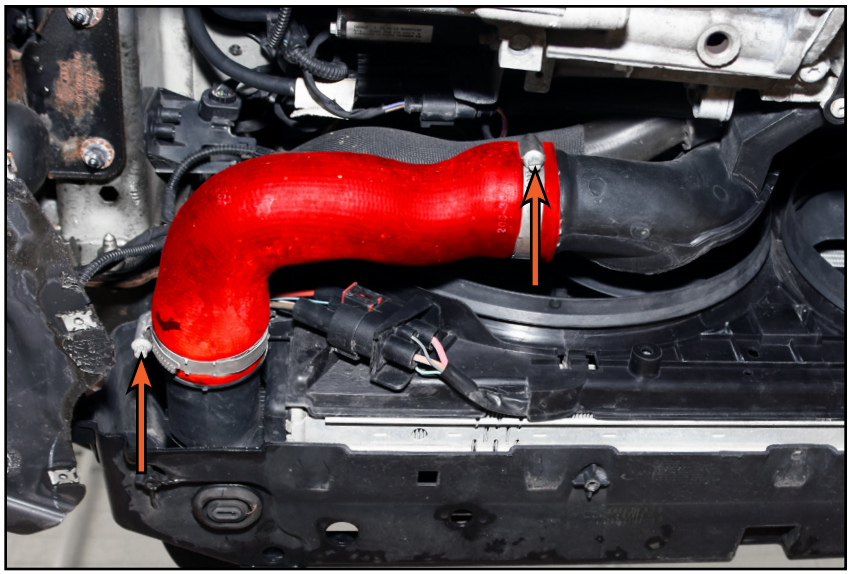
Carefully remove the bumper cover from the vehicle and set it aside.



REMOVING THE STOCK COMPONENTS

Step 9: Flat Head Screwdriver -OR- 7mm Socket & Ratchet

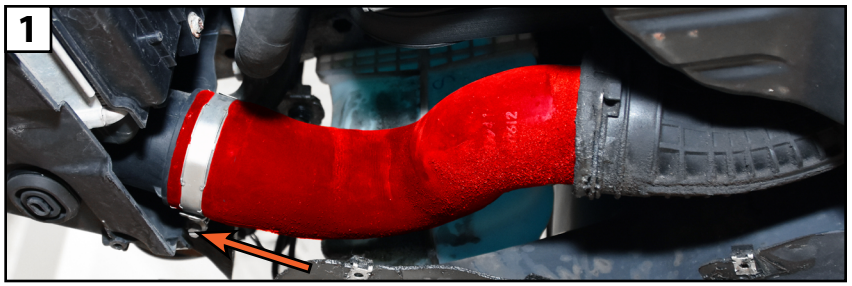
Loosen the two clamps (arrows) and remove the stock intercooler outlet hose (highlighted in **RED**).

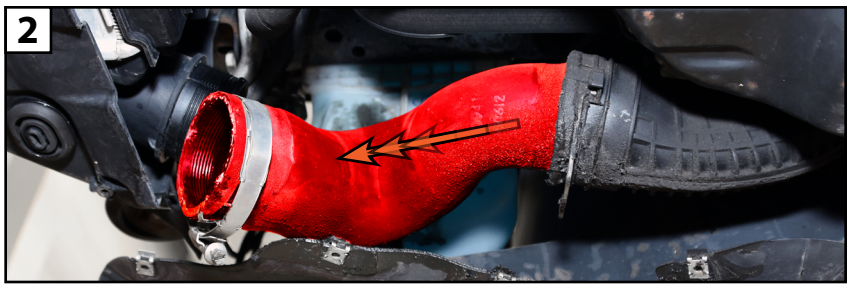


Step 10: Flat Head Screwdriver -OR- 7mm Socket & Ratchet, Pick Tool

Loosen the clamp (arrow) and pull the intercooler inlet hose (highlighted in **RED**) off of the stock intercooler (photo 1).

Pry up on the retaining clip and pull the intercooler inlet hose (highlighted in **RED**) out of the turbo outlet pipe (photo 2).





REMOVING THE STOCK COMPONENTS

Step 11:

Locate and remove the two plastic air shrouds (highlighted in **RED**) which are clipped into the front of the core support.



Step 12: Angled Pick

Remove the ambient air temperature sensor and bracket (highlighted in **RED** in photo 1) from the mounting tab on the crash beam, then bend the mounting tab (highlighted in **RED** in photo 2) up against the crash beam as shown.

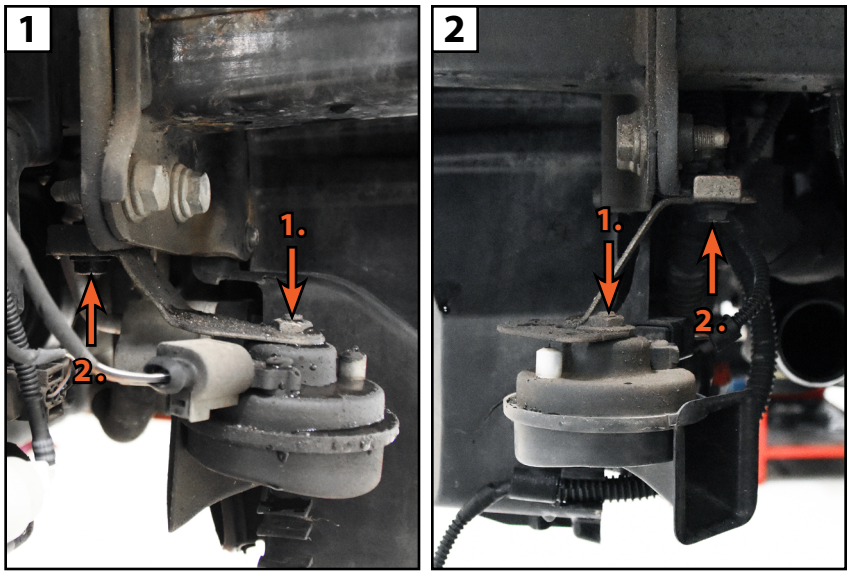




REMOVING THE STOCK COMPONENTS

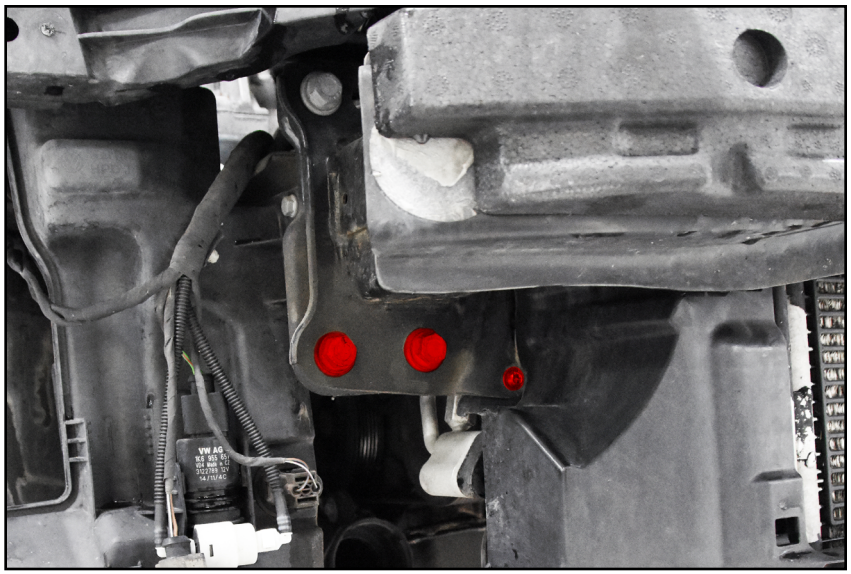
Step 13: 13mm Socket & Ratchet

Remove the nut which secures each horn to the factory bracket, then remove the bolt which secures the bracket to the vehicle.



Step 14: T30 Torx, 16mm Socket & Ratchet

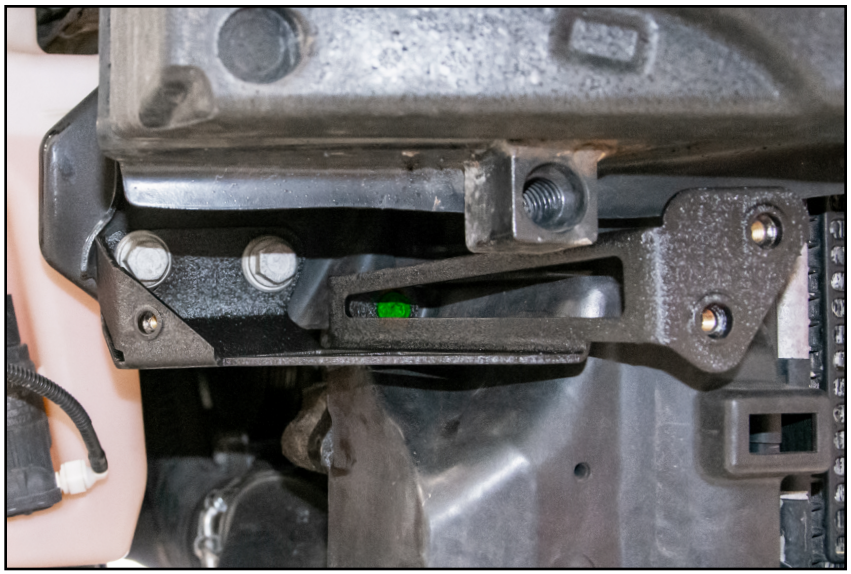
Remove the lower three bolts (highlighted in **RED**) from each side of the crash beam and set them aside.



INSTALLING THE INTERCOOLER KIT

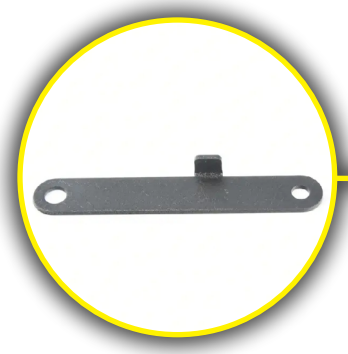
Step 1: T30 Torx, 16mm Socket & Torque Wrench

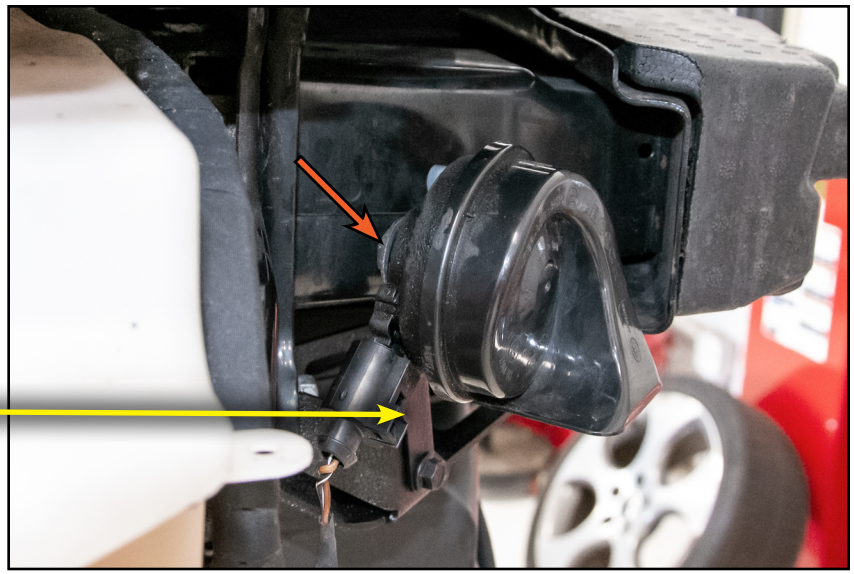
Install the RH intercooler bracket as shown using the two 16mm bolts, torquing them to 55 Nm (41 Ft-lbs). Install the T30 bolt (highlighted in **GREEN**) and torque it to 8 Nm (6 Ft-lbs).



Step 2: 13mm Socket & Ratchet

Install the provided RH horn bracket (inset photo) into the hole on the RH intercooler bracket, using the provided bolt to secure it in place. Install the RH horn into the hole in the new bracket and tighten the nut (arrow) until snug.

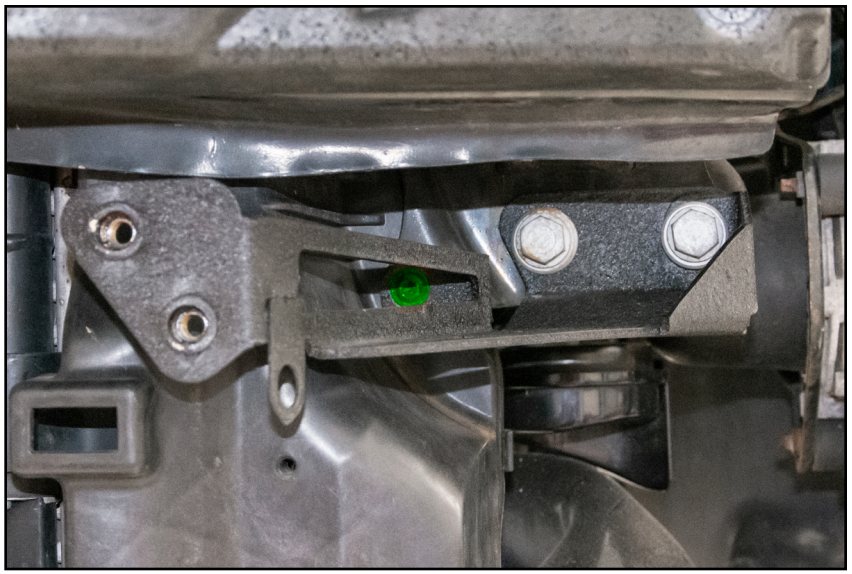




INSTALLING THE INTERCOOLER KIT

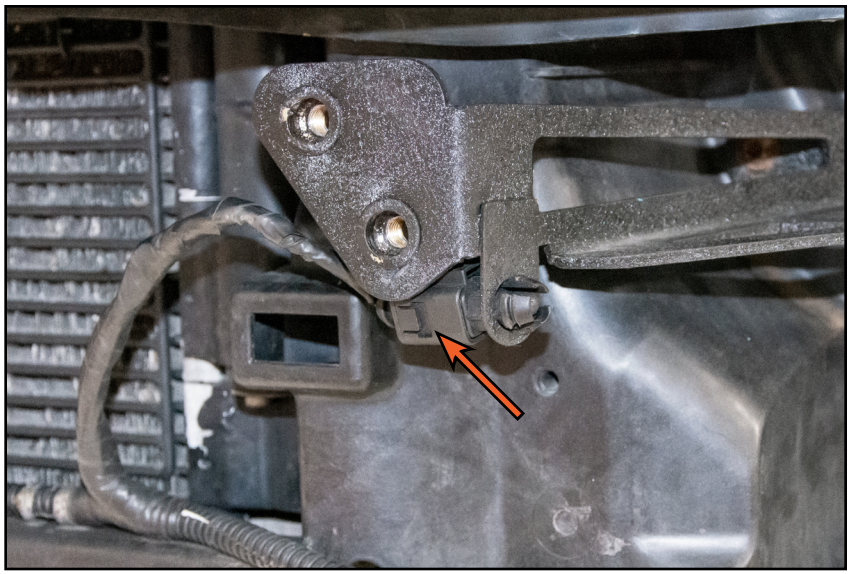
Step 3: T30 Torx, 16mm Socket & Torque Wrench

Install the LH intercooler bracket as shown using the two 16mm bolts, torquing them to 55 Nm (41 Ft-lbs). Install the T30 bolt (highlighted in **GREEN**) and torque it to 8 Nm (6 Ft-lbs).



Step 4:

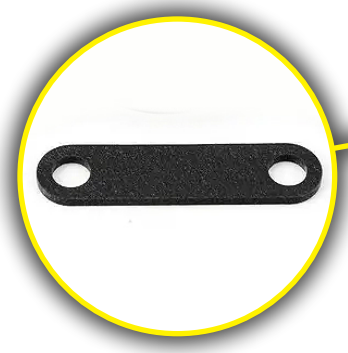
Remove the ambient air temperature sensor from its plastic bracket and transfer it to the mounting tab on the LH intercooler bracket as shown.

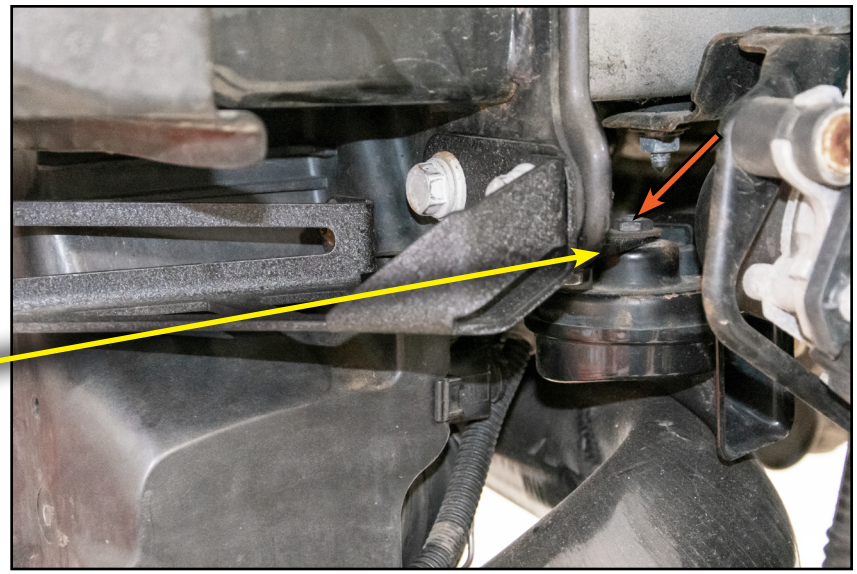


INSTALLING THE INTERCOOLER KIT

Step 5: 13mm Socket & Ratchet

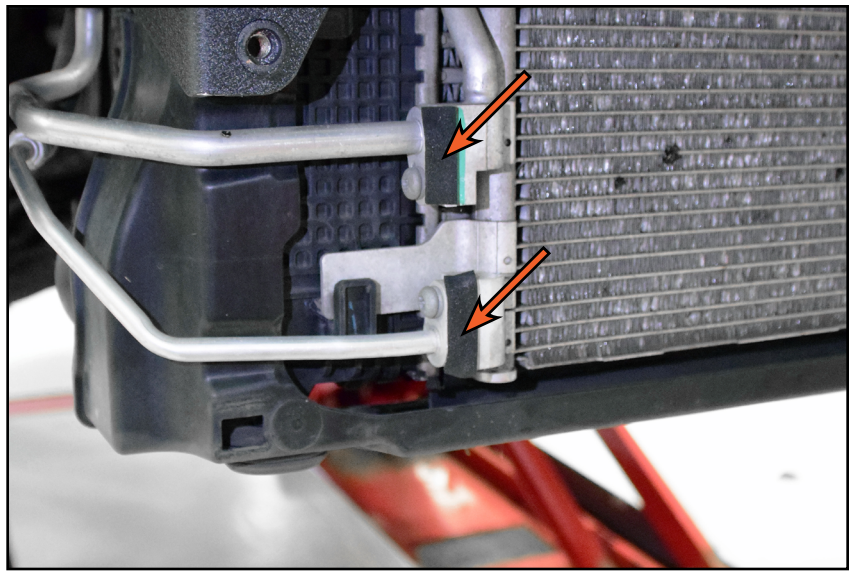
Install the provided horn bracket (inset photo) in place of the factory horn bracket, reusing the factory bolt to secure it in place. Install the LH horn into the hole in the new bracket and tighten the nut (arrow) until snug.





Step 6:

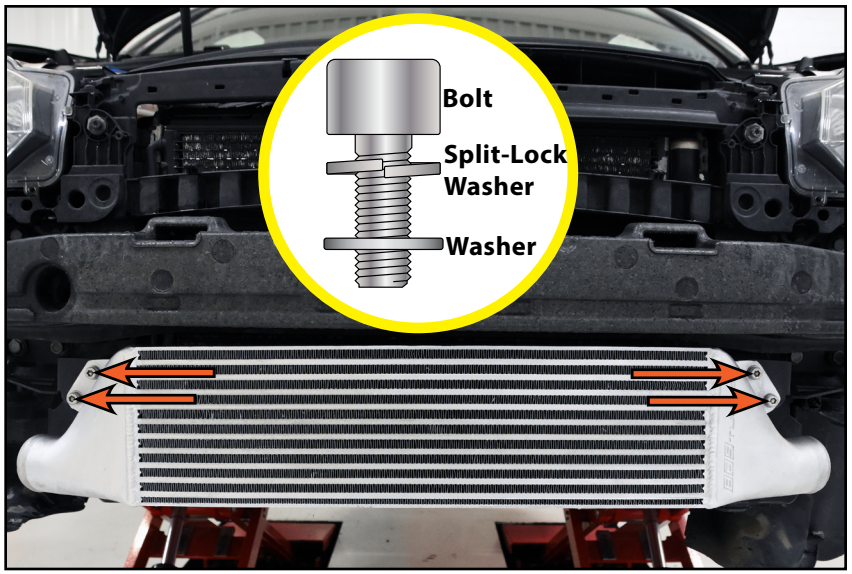
Certain models have A/C lines which may come into contact with the intercooler. If this is the case for you vehicle, simply cut the provided foam strip into two pieces and adhere it to the A/C lines as shown (arrows).



INSTALLING THE INTERCOOLER KIT

Step 7: 6mm Allen

Lift the intercooler into place and secure it to the mounting brackets using the four bolts, washers and split-lock washers (arrows) as shown in the inset illustration.



Step 8: Pick Tool

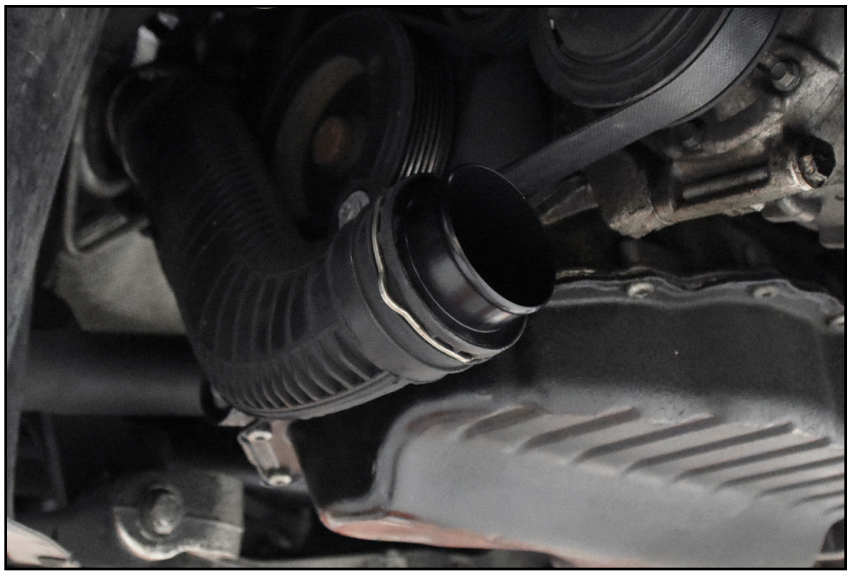
Transfer the gasket (arrow) from the factory intercooler inlet pipe to the groove in the turbo outlet pipe adapter as shown.



INSTALLING THE INTERCOOLER KIT

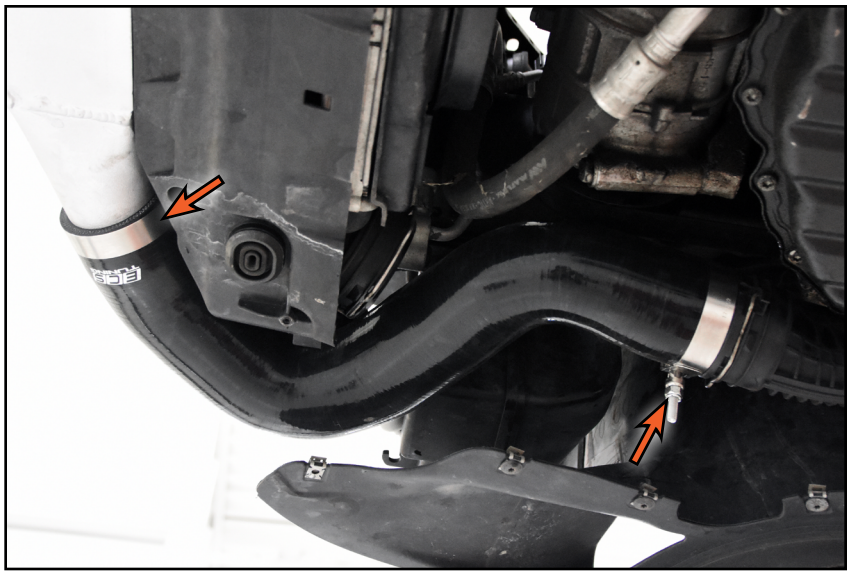
Step 9: 11mm Socket & Ratchet

Install the adapter into the turbo outlet pipe as shown and push the retaining clip back into place. Give the adapter a quick tug to ensure that it is fully seated into place.



Step 10: 11mm Socket & Ratchet

Install the intercooler inlet hose into place between the turbo outlet pipe adapter and the intercooler inlet, then tighten the clamps (arrows) until snug.



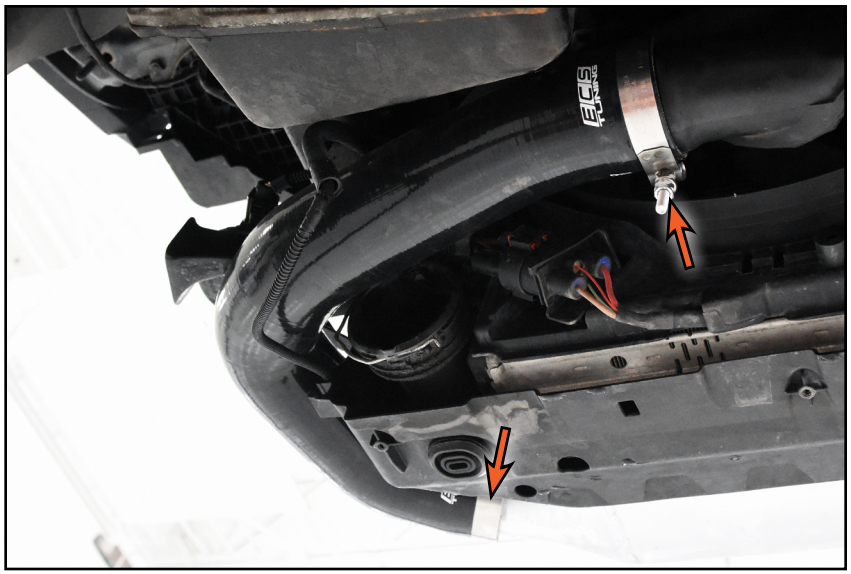
TECH TIP

It may be necessary to remove the nut from each clamp and slide it over the hose in order get them installed properly.

INSTALLING THE INTERCOOLER KIT

Step 11: 11mm Socket & Ratchet

Install the intercooler outlet hose into place between the intercooler outlet and the throttle pipe, then tighten the clamps (arrows) until snug.



Step 12: T25 Torx, 17mm Protecta-Socket, Torque Wrench

Reinstall the bumper, belly pan, wheels, and grille.
Torque the wheel bolts to 120 Nm (89 Ft-lbs).



Your Front Mount Intercooler Kit installation is complete!



These instructions are provided as a courtesy by ECS Tuning

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

Although this material has been prepared with the intent to provide reliable information, no warranty (express or implied) is made as to its accuracy or completeness. Neither is any liability assumed for loss or damage resulting from reliance on this material. SPECIFICALLY, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY IS MADE OR TO BE IMPLIED WITH RESPECT TO THIS MATERIAL. In no event will ECS Tuning, Incorporated or its affiliates be liable for any damages, direct or indirect, consequential or compensatory, arising out of the use of this material.