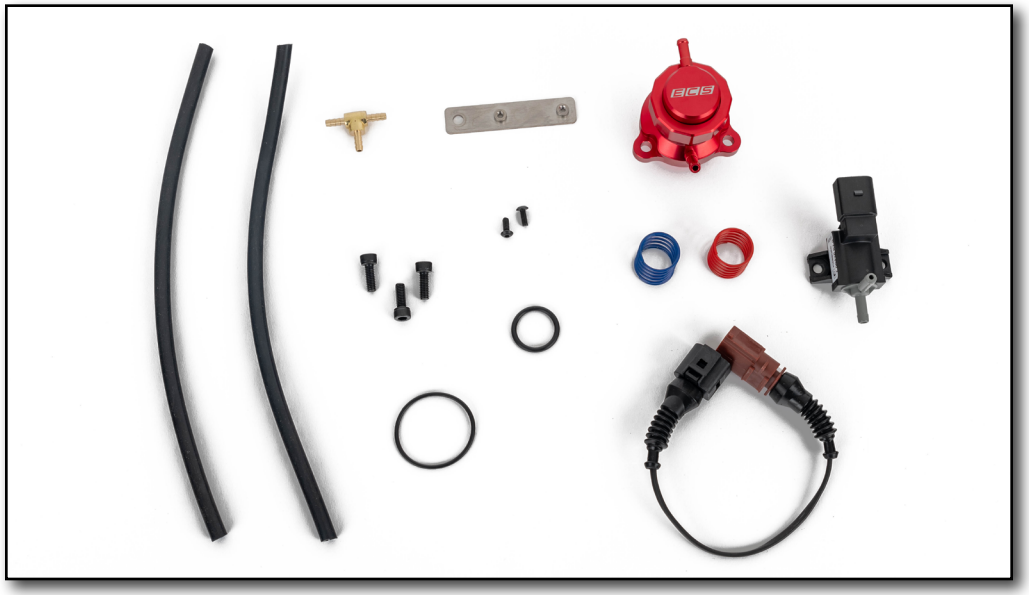
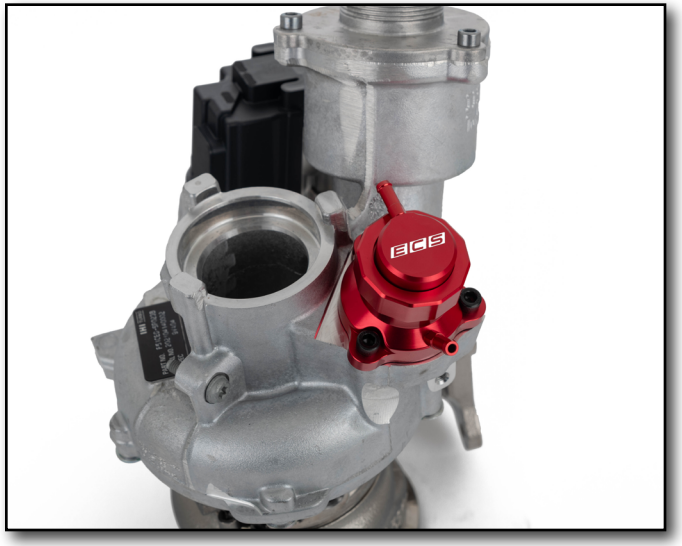
VW/Audi 1.8T/2.0T Gen3 Diverter Valve Upgrade Installation Instructions - Click HERE to Shop

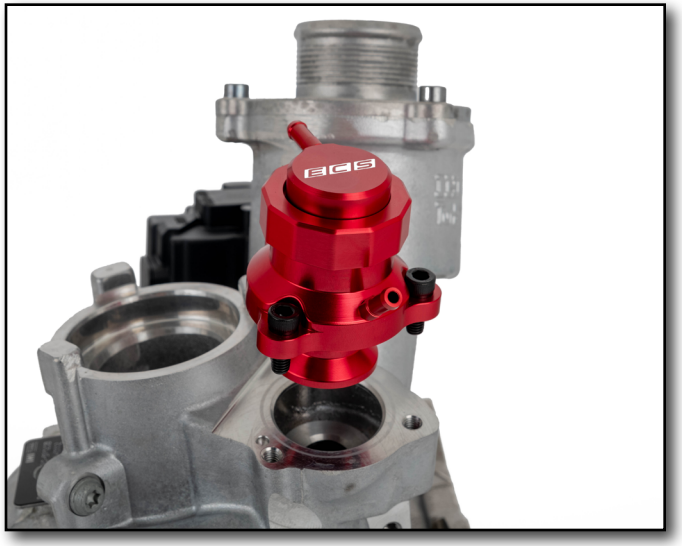
Skill Level 1 - Easy











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.

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 DIVERTER VALVE

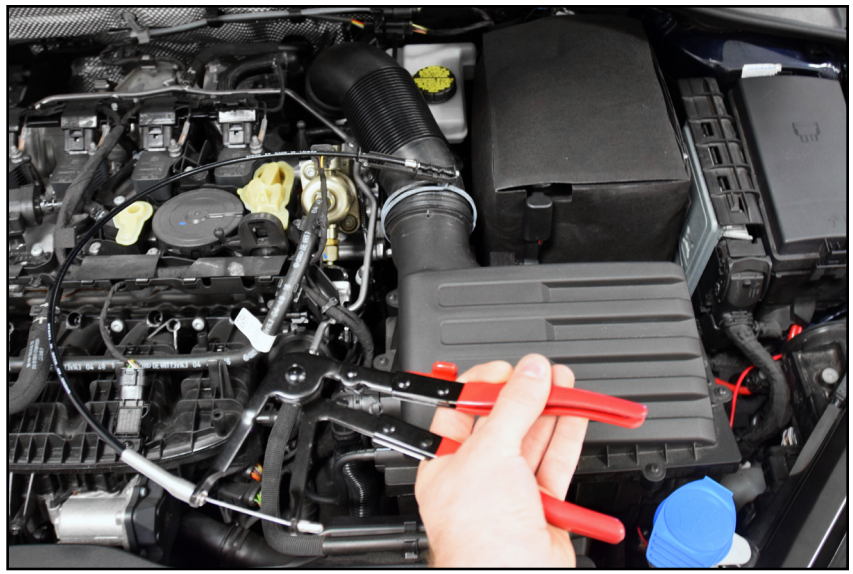
Step 1:

Lift up on the engine cover to pop it free from its mounting grommets.



Step 2: Hose Clamp Pliers

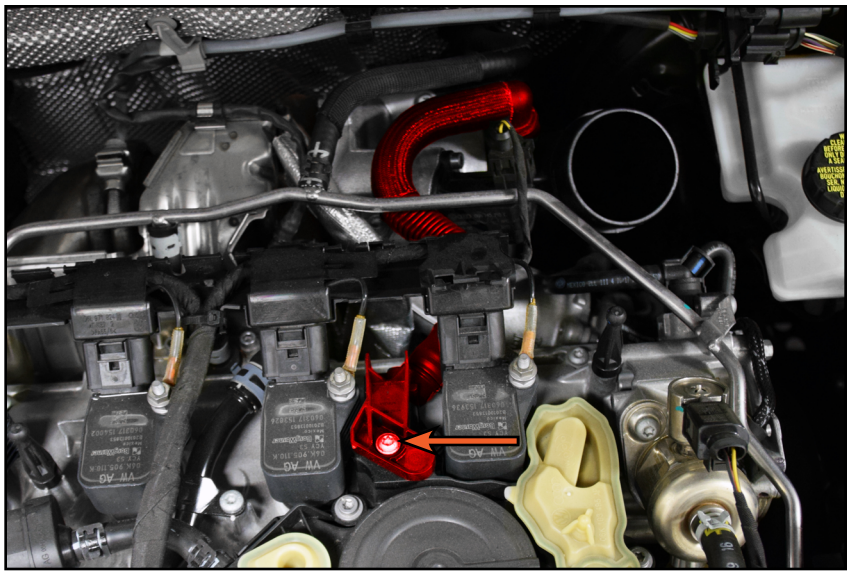
Loosen the hose clamp on the intake tube and pull it off of the air box.



REMOVING THE STOCK DIVERTER VALVE

Step 3: T30 Torx

Loosen and remove the screw securing the PCV vent hose (highlighted in **RED**) to the valve cover.

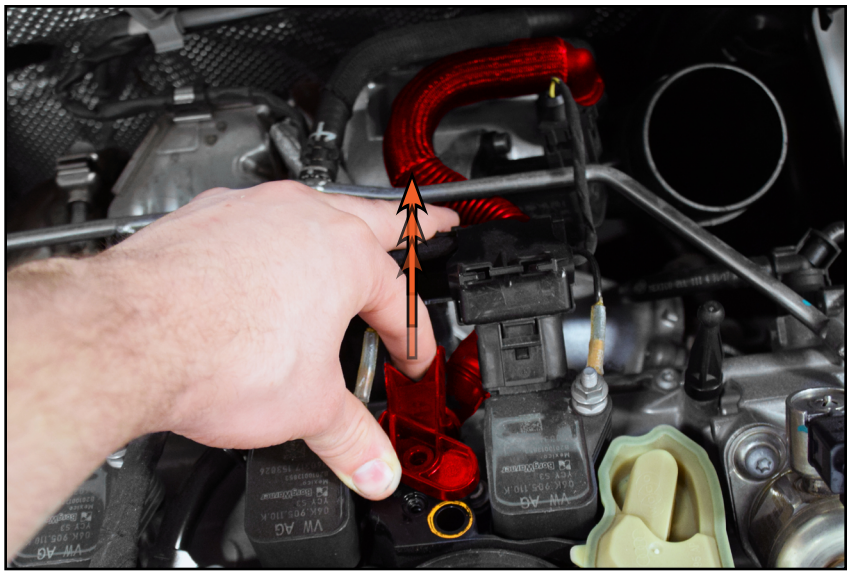


NOTE

It is possible to remove the PCV fitting from the turbo inlet pipe at this point, however we are going to document removal of the whole PCV hose to help reduce the probability of breaking the PCV hose.

Step 4:

Pull the hose out of the PCV valve on the valve cover.



REMOVING THE STOCK DIVERTER VALVE

Step 5: T30 Torx

Loosen the captive screw until it no longer engages the threads on the turbo inlet pipe mounting arm, but do not pull the screw out of the turbo housing.



Step 6:

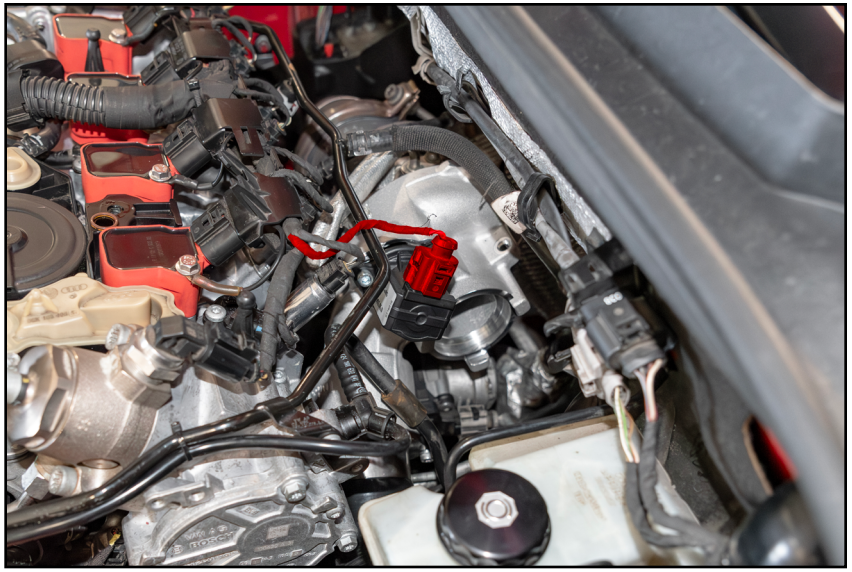
Rotate the turbo inlet pipe mounting arm downward then pull the pipe free from the turbo housing.



REMOVING THE STOCK DIVERTER VALVE

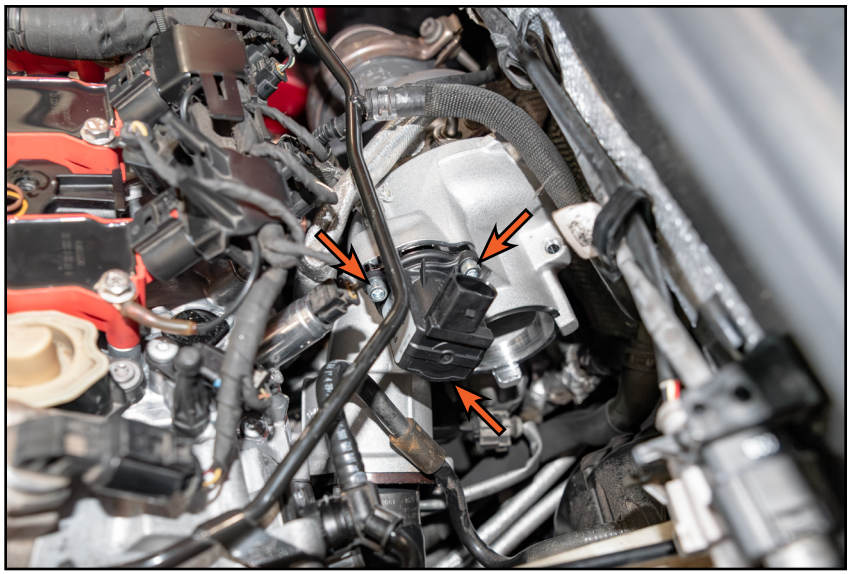
Step 7:

Disconnect the connector (highlighted in **RED**) from the diverter valve.

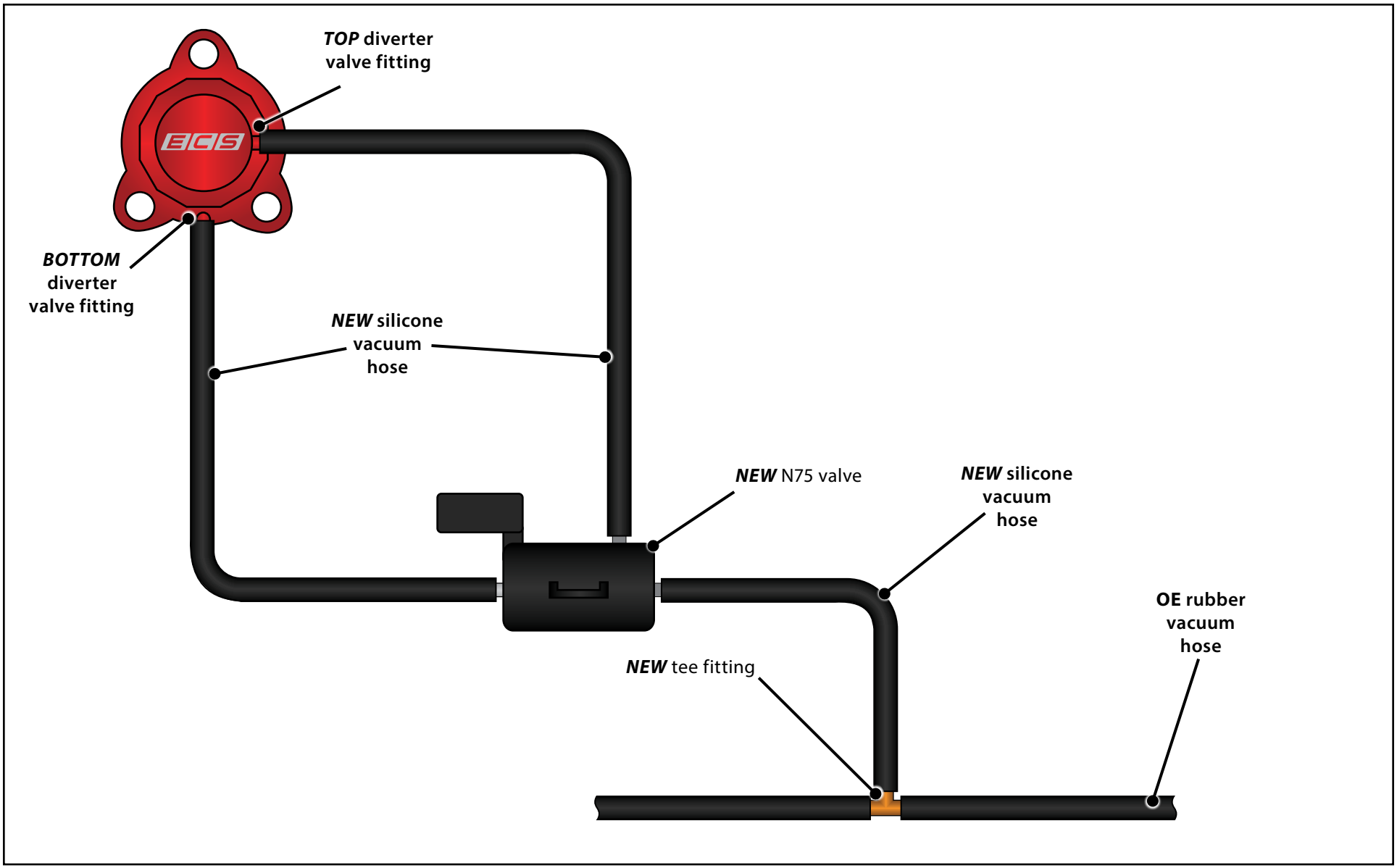


Step 8: 5mm Hex (Allen) Socket & Ratchet

Remove the three bolts (arrows) and remove the diverter valve from the turbo.



DIVERTER VALVE VACUUM LINE ROUTING DIAGRAM



INSTALLING THE NEW DIVERTER VALVE

Step 1:

Unthread the top of the diverter valve (arrow in **Photo #1**), install either the **RED** (softer) or **BLUE** (stiffer) spring, then reinstall the top of the diverter valve.

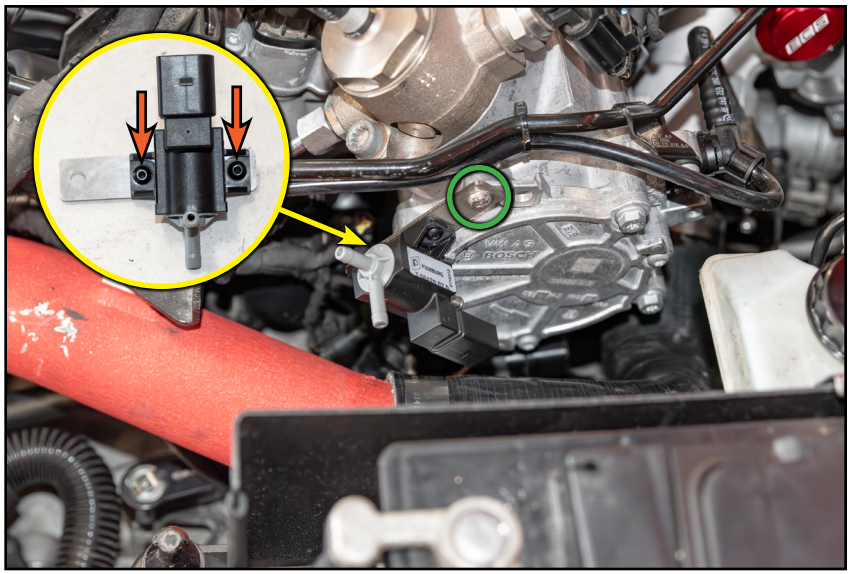
Install the provided O-ring (arrows in **Photo #2**) into the grooves in the diverter valve as shown.





Step 2: 3mm, 4mm Hex (Allen) Socket & Ratchet

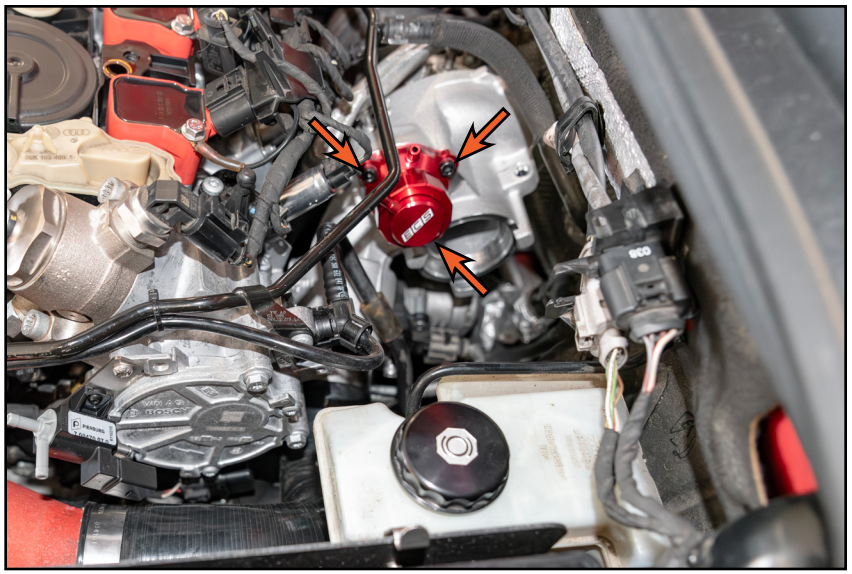
Install the N75 valve onto the mounting bracket and secure it in place with the provided M5 screws (arrows in inset photo). Secure the mounting bracket to one of the unused threaded holes near the vacuum pump using the provided M6 x 12mm screw (circled in **GREEN**).



INSTALLING THE NEW DIVERTER VALVE

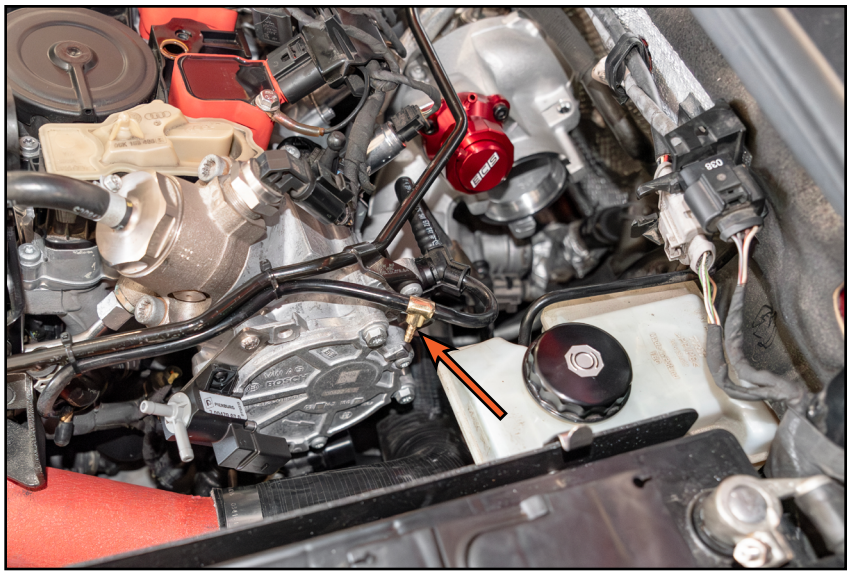
Step 3: 5mm Hex (Allen) Socket & Ratchet

Install the new diverter valve into the turbo and secure it in place with the provided screws (arrows), torquing them to 10 Nm (7 Ft-lbs).



Step 4: Razer Blade

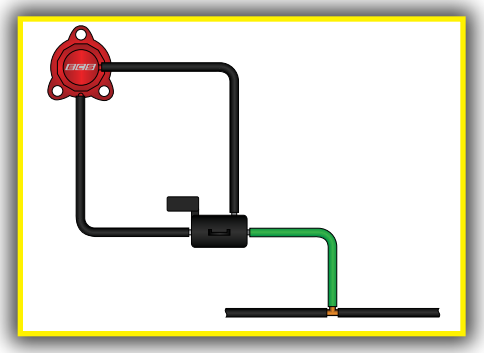
Locate and cut the small vacuum hose at the back of the vacuum pump and install the provided vacuum tee fitting (arrow) into the hose.



INSTALLING THE NEW DIVERTER VALVE

Step 5: Razor Blade

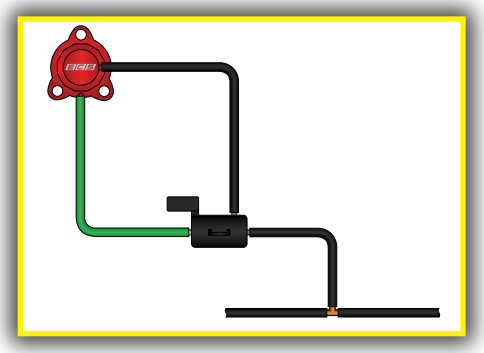
Install the shorter vacuum hose (highlighted in **GREEN**) between the front port of the N75 valve and the vacuum tee, cutting to length as needed.

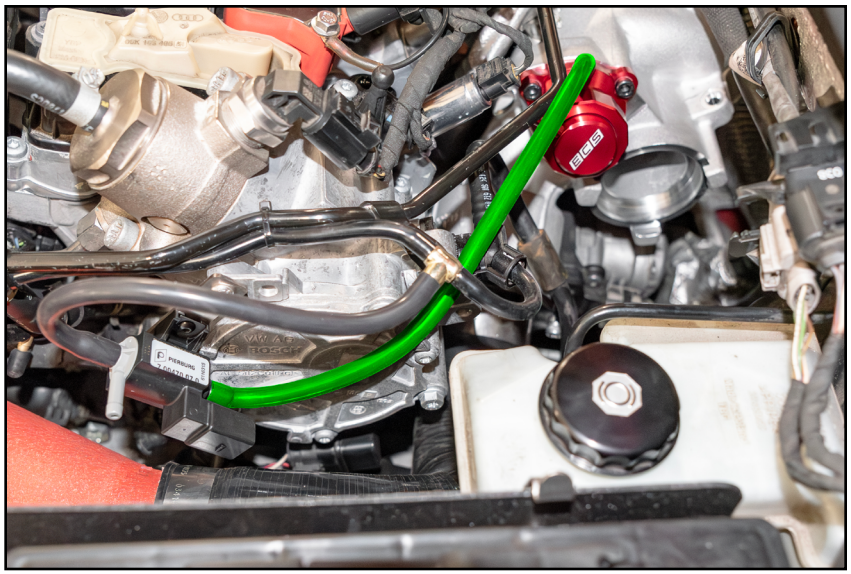




Step 6: Razor Blade

Install one of the longer vacuum hoses (highlighted in **GREEN**) between the back port of the N75 valve and the bottom fitting on the diverter valve, cutting to length as needed.

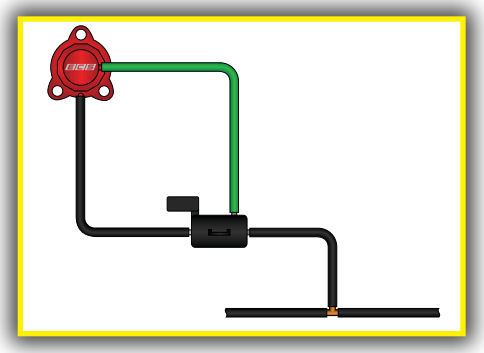


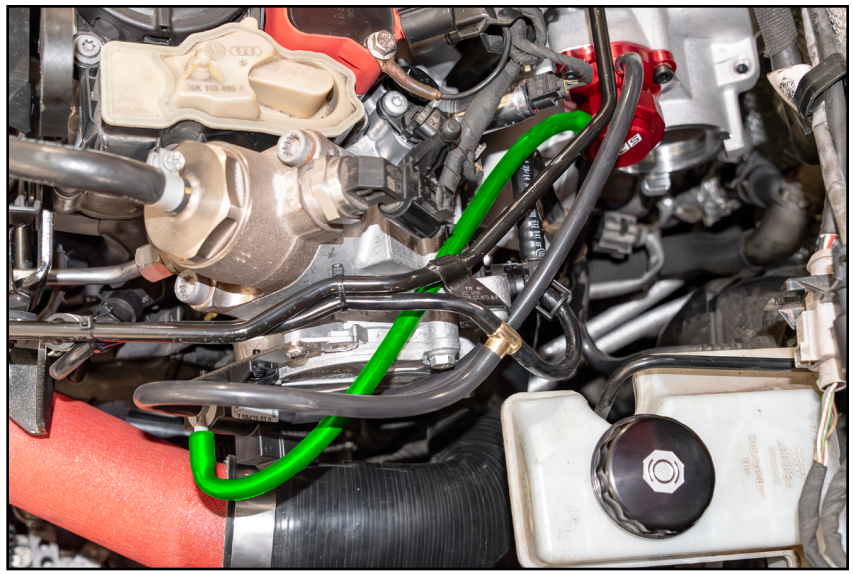


INSTALLING THE NEW DIVERTER VALVE

Step 7: Hose Clamp Pliers, 7mm Socket & Ratchet

Install one of the longer vacuum hoses (highlighted in **GREEN**) between the top port of the N75 valve and the top fitting on the diverter valve, cutting to length as needed.





Step 8:

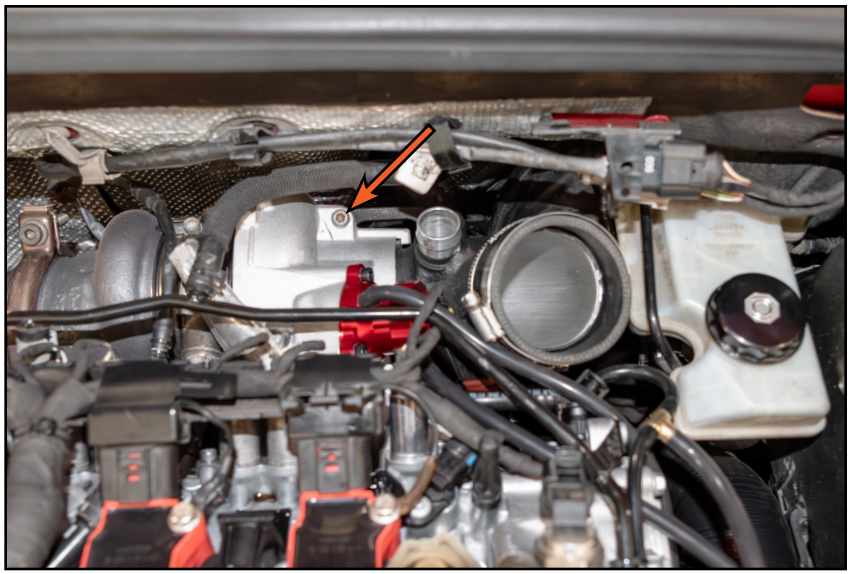
Connect the provided wiring harness (highlighted in **GREEN**) to the OE connector and the N75 valve.



INSTALLING THE NEW DIVERTER VALVE

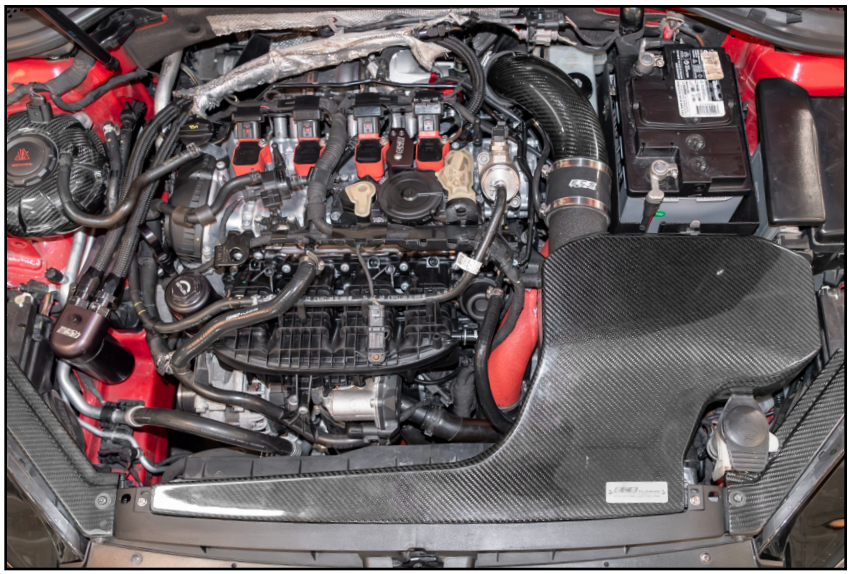
Step 9: T30 Torx Socket & Torque Wrench

Reinstall the turbo inlet pipe into the turbo and rotate the mounting arm upward until fully seated, then reinstall the screw (arrow), torquing it to 9 Nm (7 Ft-lbs). Reinstall the PCV vent hose.



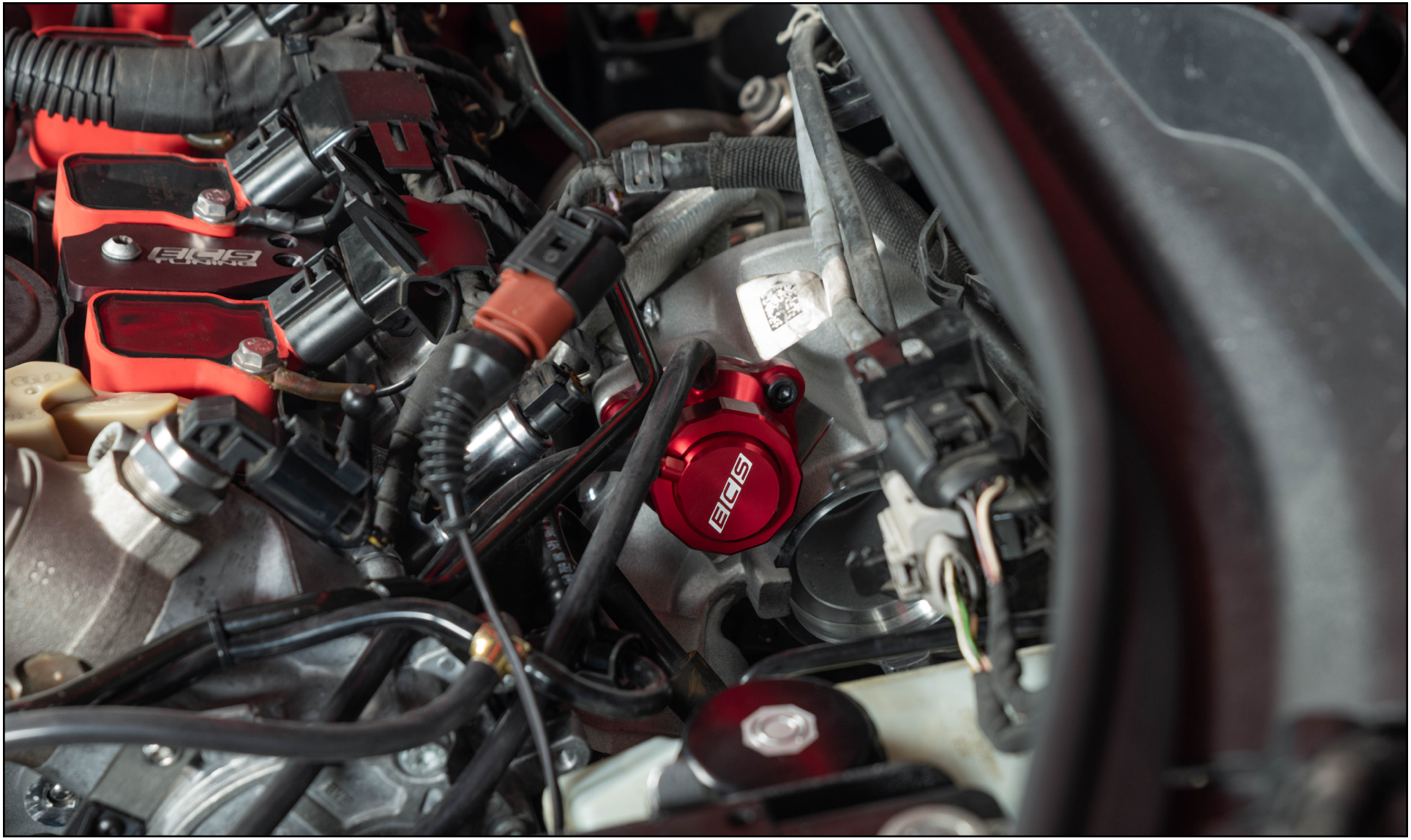
Step 10:

Reinstall the intake system and engine cover.



Congratulations, your installation is complete!

Your Diverter Valve 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.

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