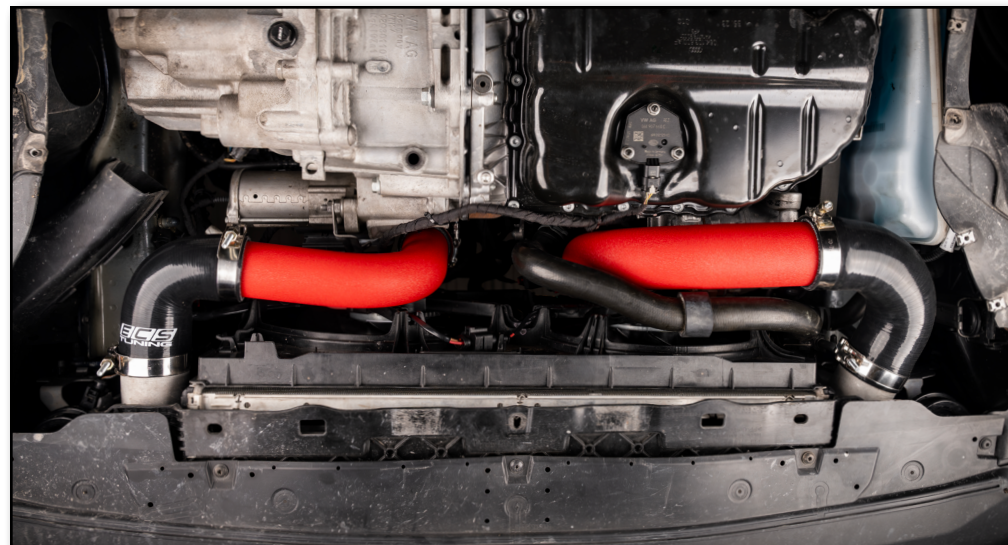




VW MK8 Golf R Charge Pipe Kit Installation Instructions - [Click HERE to Shop](#)



Skill Level
2 - Moderate
Some Experience
Recommended



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

Kit Contents - Turbo Outlet Pipe	pg.3
Kit Contents - Throttle Pipe.....	pg.4
Required Tools	pg.5
Installation and Safety Information	pg.6
Removing the Stock Charge Pipes	pg.7
Removing the Stock Turbo Outlet Pipe	pg.8
Removing the Stock Throttle Pipe.....	pg.10
Installing the New Turbo Outlet Pipe.....	pg.13
Installing the New Throttle Pipe	pg.17

KIT CONTENTS - TURBO OUTLET PIPE



Upper Turbo Outlet Pipe
(Available in wrinkle black or red finish)



Lower Turbo Outlet Pipe
(Available in wrinkle black or red finish)



Turbo Outlet Coupler



Straight Coupler



Intercooler Inlet Coupler



Turbo Outlet Pipe Installation Kit

KIT CONTENTS - THROTTLE PIPE



Throttle Pipe
(Available in wrinkle black or red finish)



Throttle Body Coupler



Intercooler Outlet Coupler



Diverter Valve Hose (**For vehicles with ECS intake system ONLY**)



Diverter Valve Hose Adapter (**For vehicles with ECS intake system ONLY**)



Throttle Pipe Installation Kit

REQUIRED TOOLS

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

Standard Automotive Tools

- Protecta-Sockets (for lug nuts).....[ES#2221243](#)
- **3/8" Drive Ratchet**.....[ES#2765902](#)
- 3/8" Drive Torque Wrench.....[ES#2221245](#)
- **3/8" Drive Deep and Shallow Sockets**.....[ES#2763772](#)
- **3/8" Drive Extensions**.....[ES#2804822](#)
- **Hydraulic Floor Jack**.....[ES#2834951](#)
- **Torx Drivers and Sockets**.....[ES#11417/8](#)
- 1/2" Drive Deep and Shallow Sockets.....[ES#2839106](#)
- 1/2" Drive Ratchet
- 1/2" Drive Extensions
- 1/2" Drive Torque Wrench.....[ES#2221244](#)
- 1/2" Drive Breaker Bar.....[ES#2776653](#)
- Bench Mounted Vise
- Crows Foot Wrenches
- **Hook and Pick Tool Set**.....[ES#2778980](#)

Required For This Install

Available On Our Website

- **1/4" Drive Ratchet**.....[ES#2823235](#)
- **1/4" Drive Deep and Shallow Sockets**.....[ES#2823235](#)
- **1/4" 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](#)

Specialty Tools

- **Hose Clamp Pliers**.....[Click HERE to Shop](#)

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 CHARGE PIPES

Step 1: Hose Clamp Pliers, T25 Torx, 7mm, 10mm Socket & Ratchet

Disconnect the negative battery terminal, then remove the intake system and the engine cover. Disconnect the diverter valve vent hose (highlighted in **RED** in inset photo) from the intake hose and free it from its mounting clips.



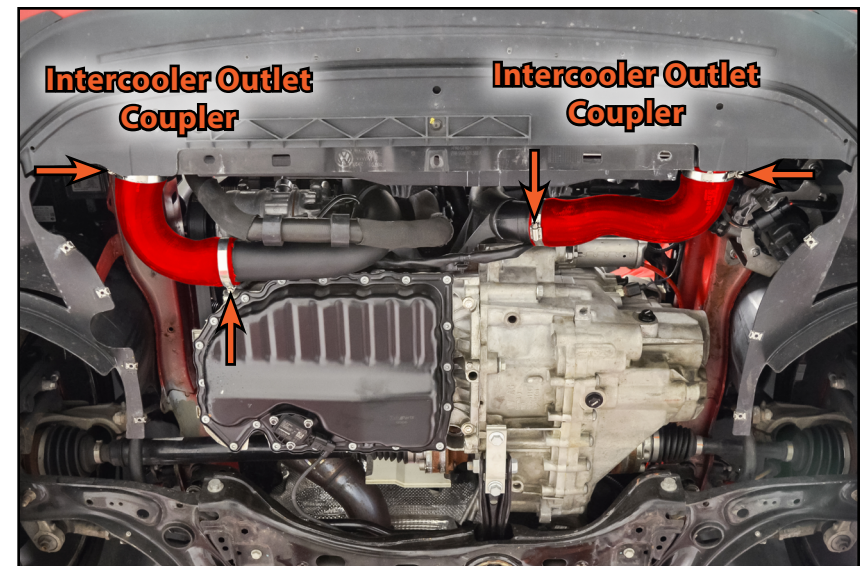
Step 2: 7mm Socket & Ratchet

Safely lift and support the vehicle and remove the front insulation panel. Loosen the clamps (arrows) and remove the intercooler couplers (highlighted in **RED**).



If you purchased the throttle or turbo outlet pipe individually: Only remove the intercooler coupler that corresponds to your kit.

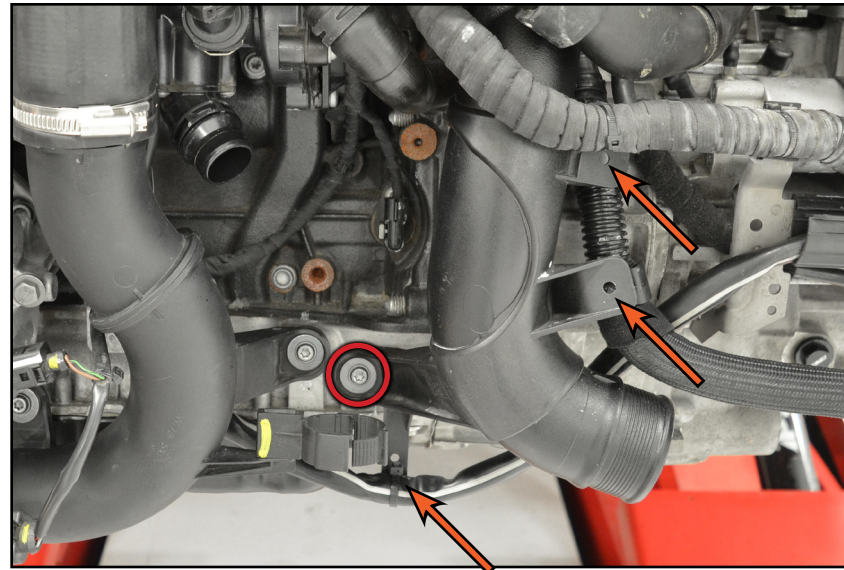
If you purchased the throttle pipe individually: Skip ahead to [Page 10](#).



REMOVING THE STOCK TURBO OUTLET PIPE

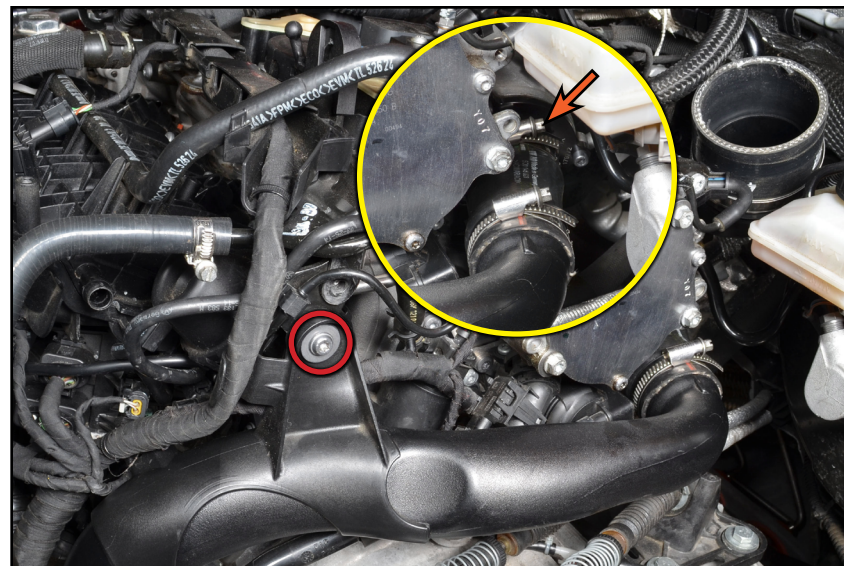
Step 1: T30 Torx Socket & Ratchet

Loosen the turbo outlet pipe lower mounting screw (circled in **RED**) in the photo on the right). Release the wiring harness clips (arrows) from the turbo outlet pipe.



Step 2: T30 Torx, 7mm Socket & Ratchet

Loosen the turbo outlet pipe upper mounting screw (circled in **RED**), then loosen the hose clamp (arrow in inset photo) that secures the turbo outlet coupler to the turbo and pull the pipe off of the turbo.



REMOVING THE STOCK TURBO OUTLET PIPE

Step 3:

Guide the turbo outlet pipe upward and out of the engine bay as shown.

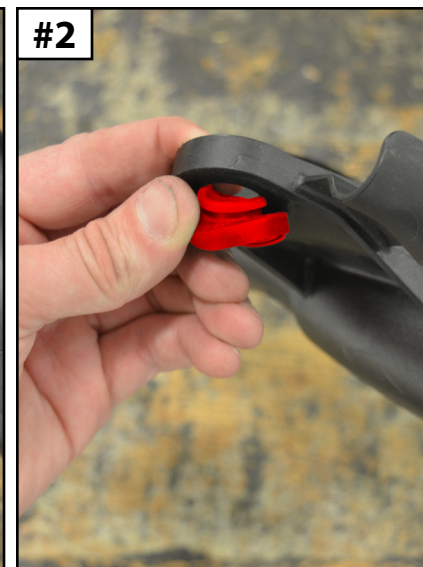


Step 4:

Remove the upper mounting screw (arrow in **Photo #1**) and bushing (highlighted in **RED** in **Photo #2**) from the turbo outlet pipe and set them aside.



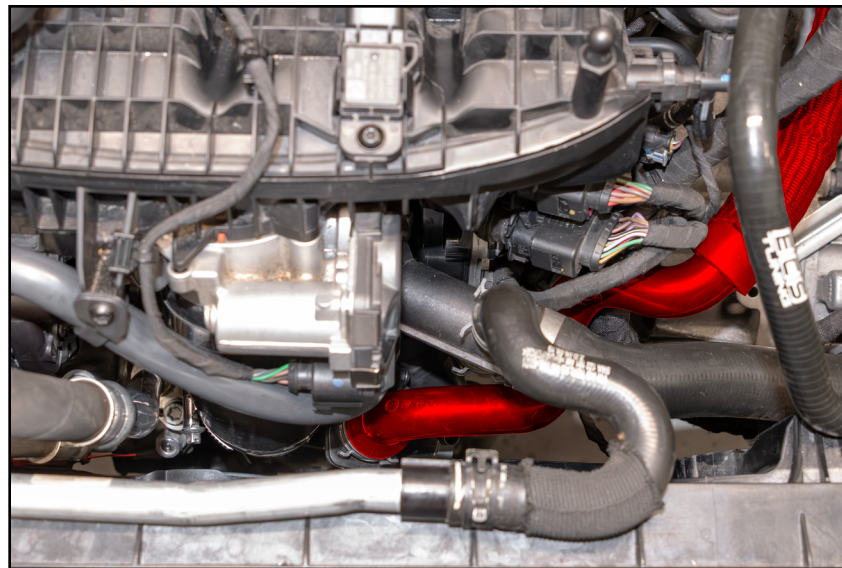
If you purchased the turbo outlet pipe individually:
Skip ahead to [Page 13](#).



REMOVING THE STOCK THROTTLE PIPE

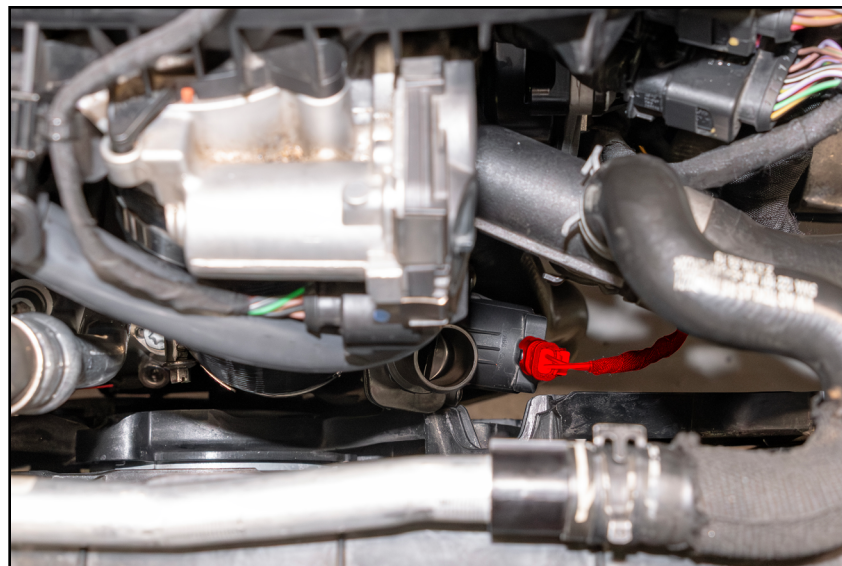
Step 1: Hose Clamp Pliers

Compress the clamp (arrow) and pull the diverter valve vent hose (highlighted in **RED**) off of the flange on the throttle pipe.



Step 2:

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



REMOVING THE STOCK THROTTLE PIPE

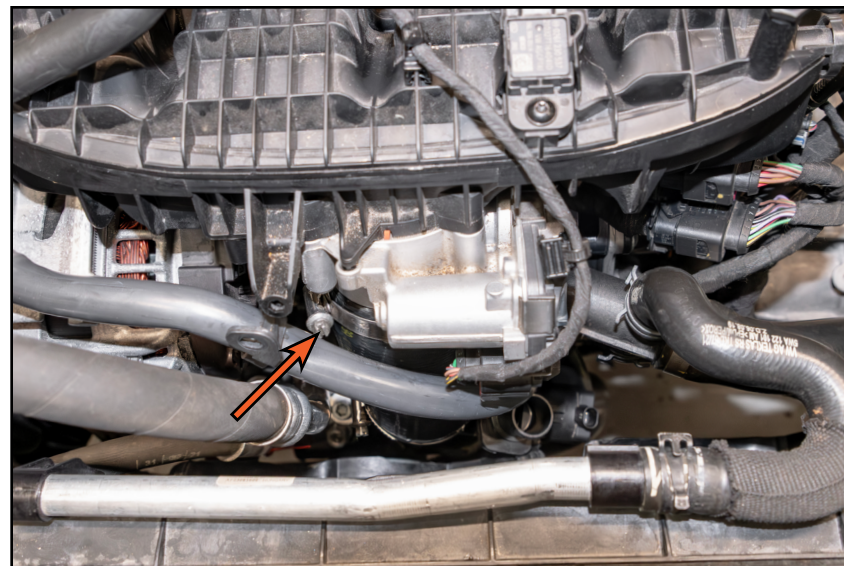
Step 3: T30 Torx Socket & Ratchet

Remove the two screws (arrows) to free up the coolant pipe from the front of the intake manifold.



Step 4: 7mm Socket & Ratchet

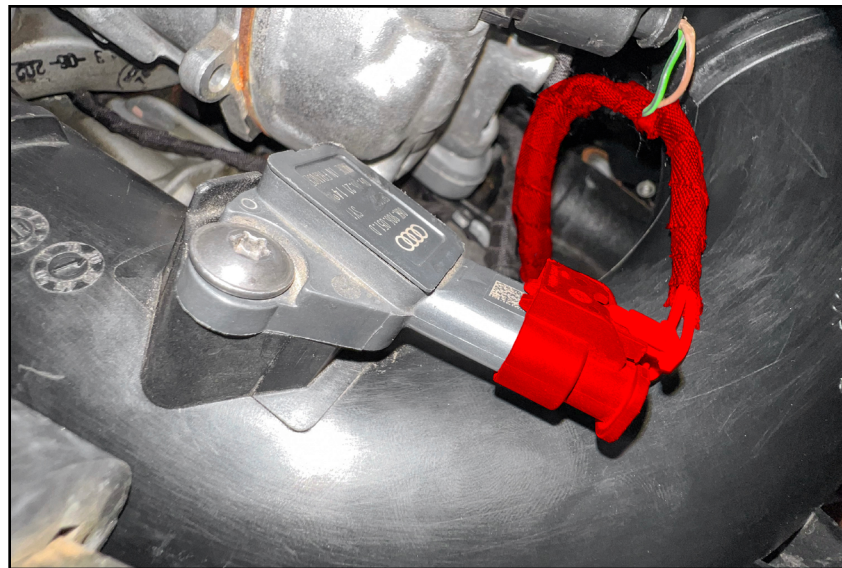
Loosen the clamp (arrow) that secures the throttle pipe to the throttle body.



REMOVING THE STOCK THROTTLE PIPE

Step 5:

Disconnect the MAP sensor connector (highlighted in **RED**) from the bottom of the throttle pipe.

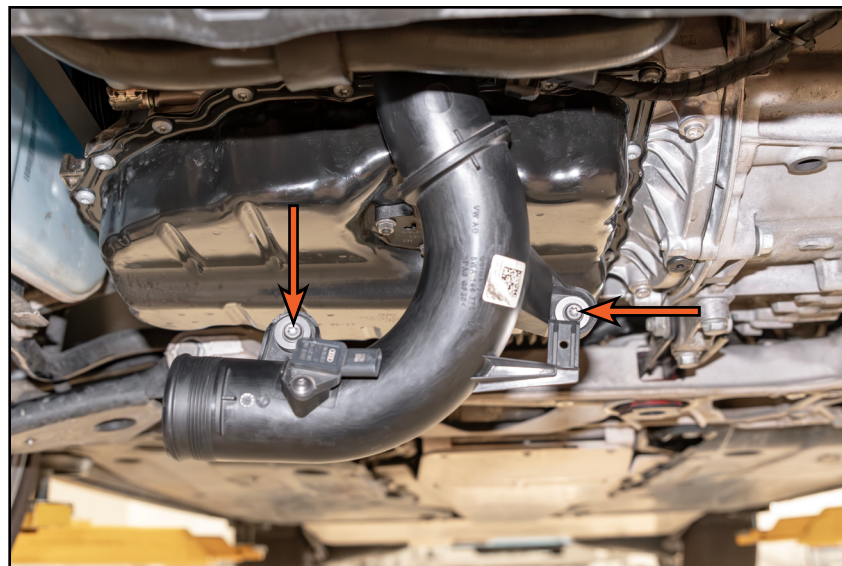


Step 6: T30 Torx Socket & Ratchet

Loosen the two mounting screws (arrows) and guide the throttle pipe out of the engine from below.



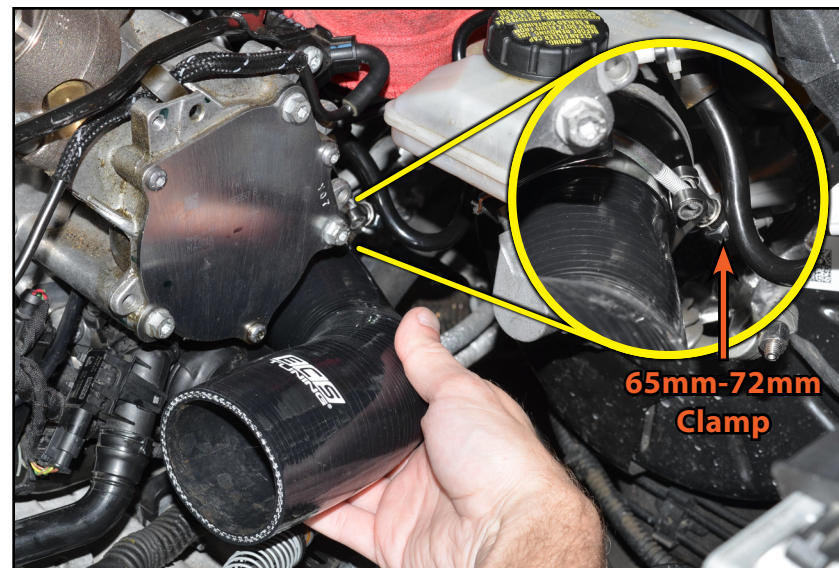
If you purchased the throttle pipe individually: Skip ahead to [Page 17](#).



INSTALLING THE NEW TURBO OUTLET PIPE

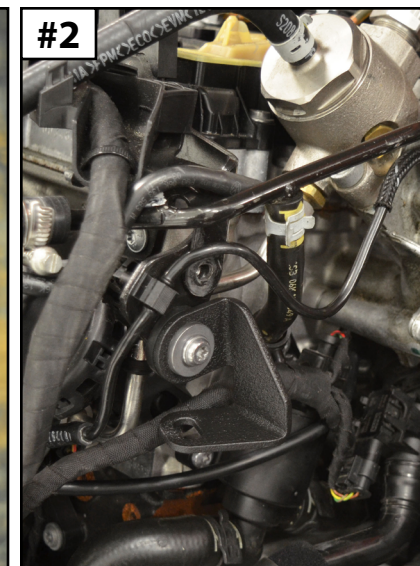
Step 1: 10mm Socket & Ratchet

Slide the provided clamp onto the turbo outlet coupler as shown and slide the coupler on to the turbo until it is fully seated. Orient the clamp for clearance and ease of access, but leave it loose to allow for adjustment.



Step 2: T30 Torx Socket & Ratchet

Transfer the turbo outlet pipe mounting bushing and screw to the new provided mounting bracket (as shown in **Photo #1**), then install the mounting bracket into the original turbo outlet pipe mounting location on the side of the engine (as shown in **Photo #2**) and tighten the screw until snug.

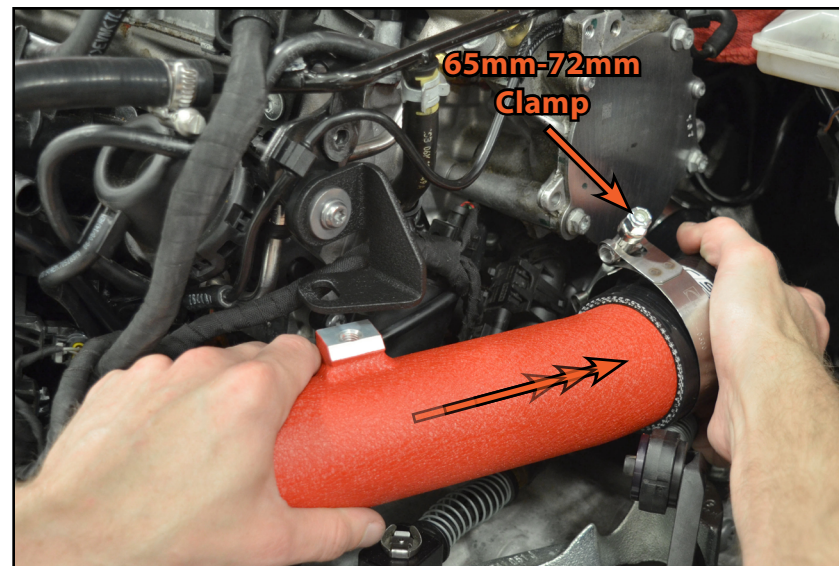


INSTALLING THE NEW TURBO OUTLET PIPE

Step 3: 10mm Socket & Ratchet

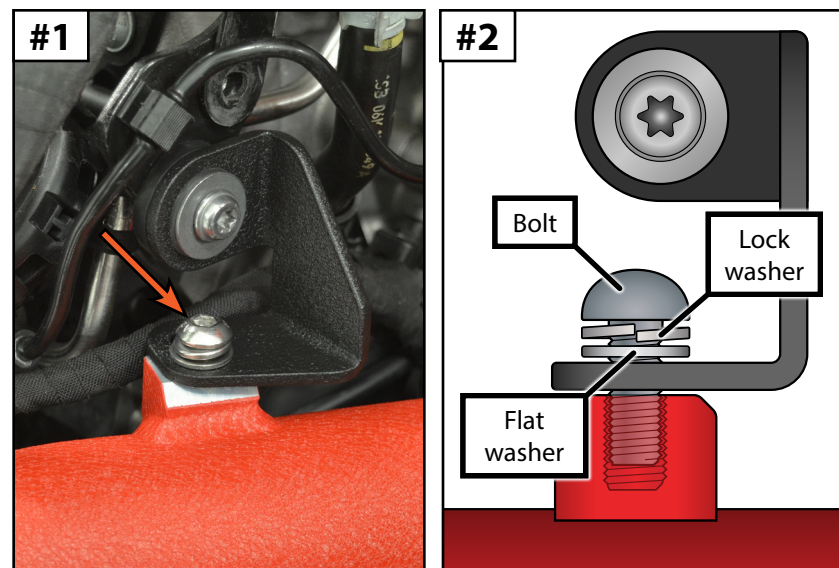
Slide the provided clamp onto the end of the turbo outlet coupler as shown. Orient the clamp for clearance and ease of access, but leave it loose to allow for adjustment.

Slide the upper turbo outlet pipe into the coupler until the mounting hole lines up with the bracket.



Step 4: 5mm Hex (Allen) Socket & Ratchet

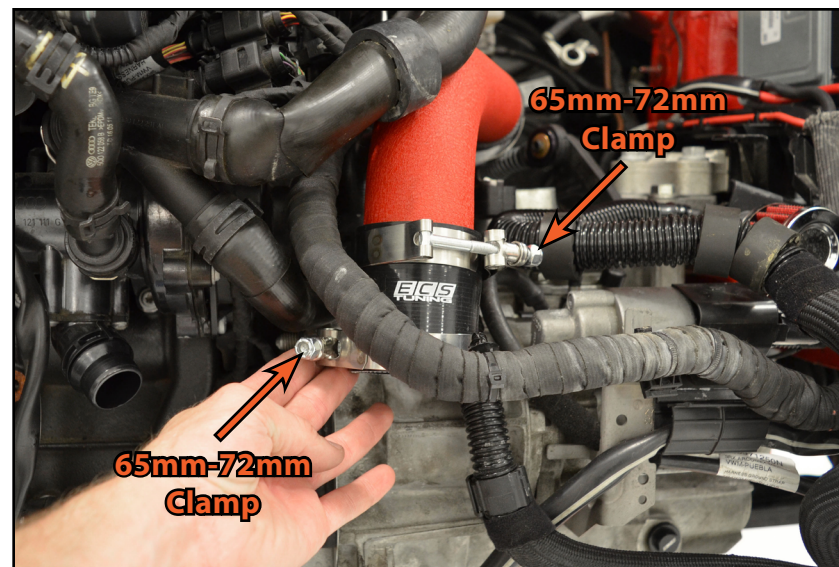
Thread the included bolt and washers through the mounting bracket and into the turbo outlet pipe. Leave the screw loose to allow for adjustment.



INSTALLING THE NEW TURBO OUTLET PIPE

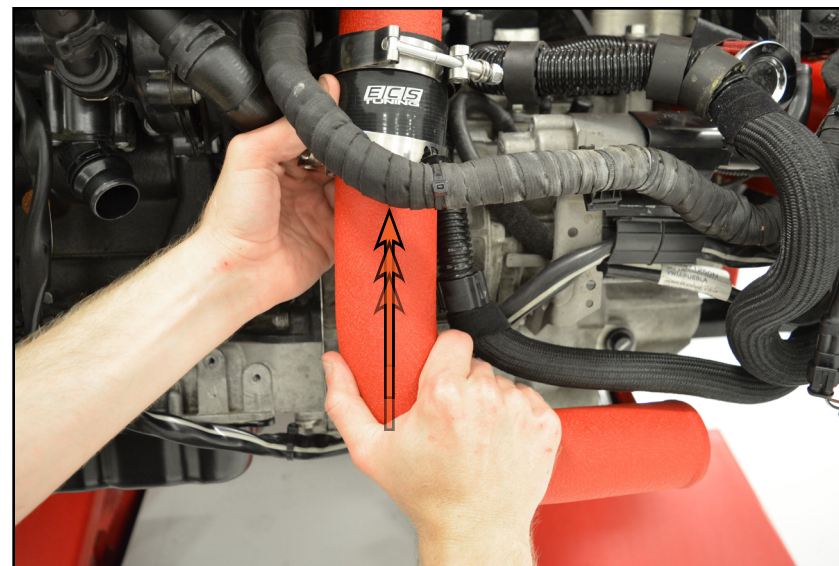
Step 5: 10mm Socket & Ratchet

Slide the straight coupler onto the upper turbo outlet pipe, then slide the provided clamps onto the coupler as shown. Orient the clamps for clearance and ease of access, but leave them loose to allow for adjustment.



Step 6: 10mm Socket & Ratchet

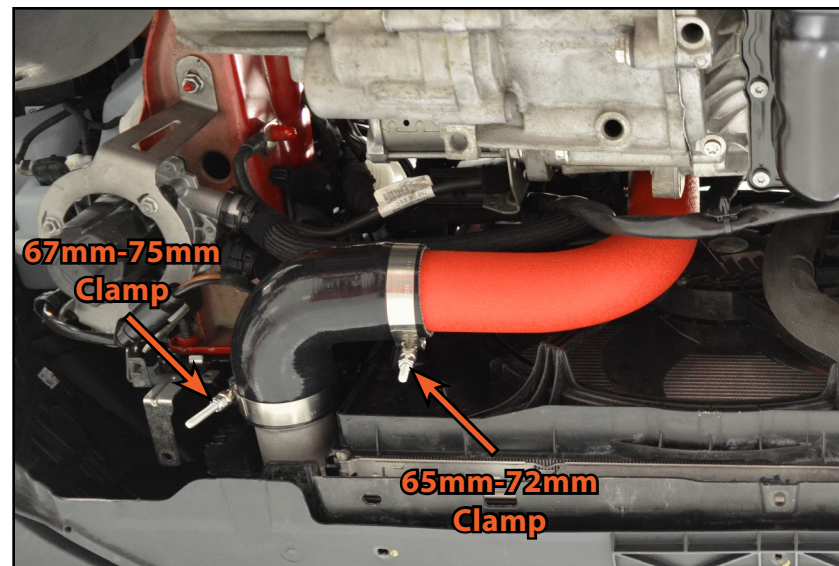
Slide the lower turbo outlet pipe into the straight coupler as shown.



INSTALLING THE NEW TURBO OUTLET PIPE

Step 7: 5mm Hex (Allen), 10mm Socket & Ratchet

Slide the provided clamps onto the intercooler inlet coupler as shown, then install it between the lower turbo outlet pipe and the intercooler, ensuring it is fully seated. Orient the clamps for clearance and ease of access, then adjust all the pipes and couplers to ensure clearance before fully tightening all the clamps and hardware.



Step 8: Hose Clamp Pliers, T25 Torx, 7mm, 10mm Socket & Ratchet

If you purchased the turbo outlet pipe individually: Reconnect the diverter valve vent tube and reinstall the intake system. Reconnect the negative battery terminal and reinstall the engine cover.

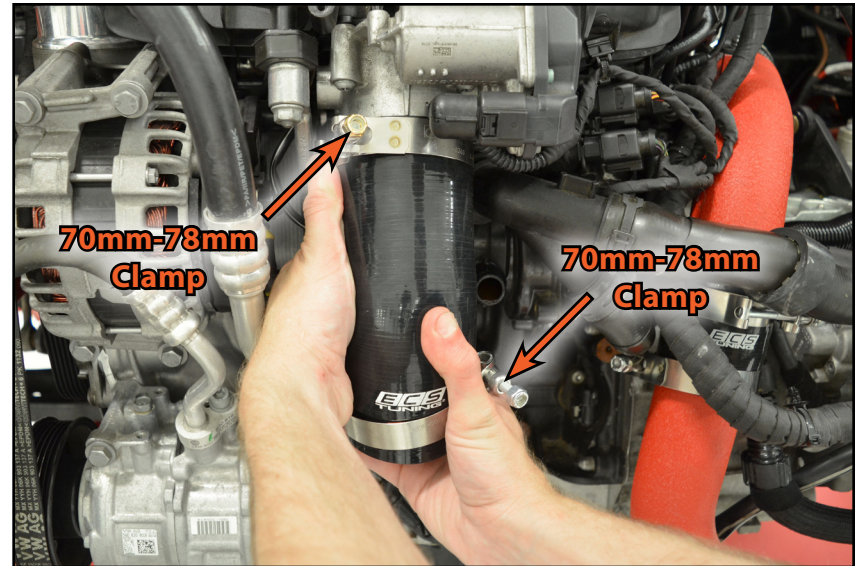
Congratulations, Your turbo outlet pipe installation is complete!



INSTALLING THE NEW THROTTLE PIPE

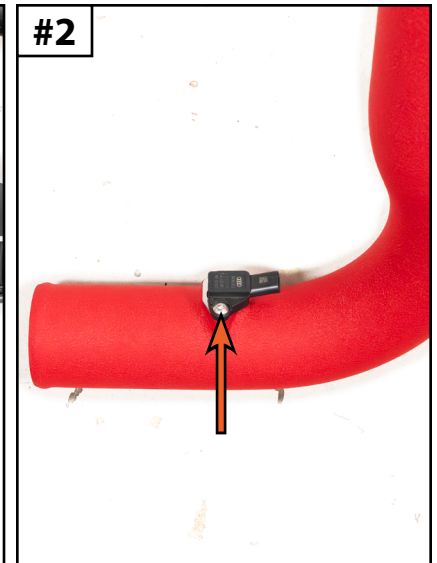
Step 1: 10mm Socket & Ratchet

Slide the provided clamps onto the throttle body coupler as shown and slide the coupler onto the throttle body until its fully seated. Orient the clamps for clearance and ease of access, but leave them loose to allow for adjustment.



Step 2: T25 Torx, 4mm Hex (Allen) Socket & Ratchet

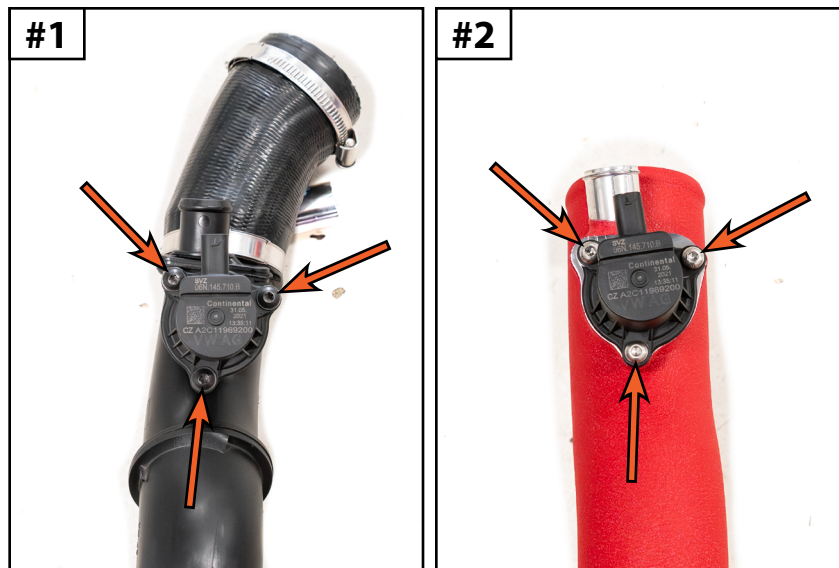
Remove the screw (arrow in **Photo #1**) and transfer the MAP sensor from the stock throttle pipe to the new throttle pipe, securing it in place with the provided M6 x 14mm screw (arrow in **Photo #2**).



INSTALLING THE NEW THROTTLE PIPE

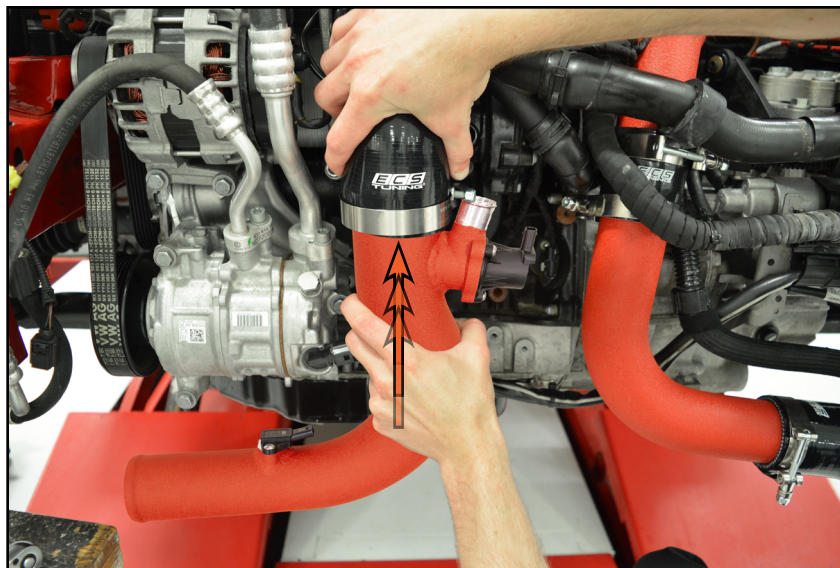
Step 3: T25 Torx, 4mm Hex (Allen) Socket & Ratchet

Remove the screws (arrows in **Photo #1**) and transfer the diverter valve from the stock throttle pipe to the new throttle pipe, securing it in place with the provided M6 x 16mm screws (arrows in **Photo #2**).



Step 4:

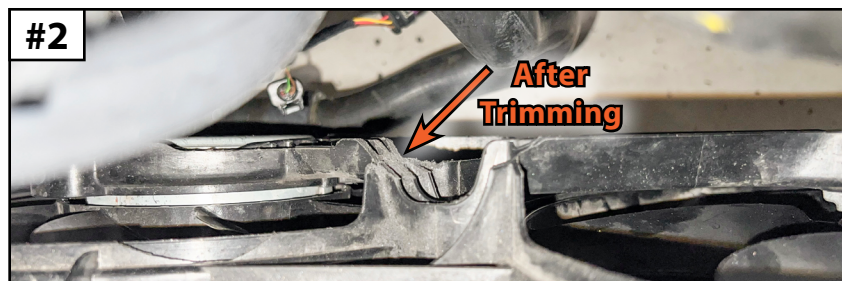
Slide the new throttle pipe into the throttle body coupler as shown.



INSTALLING THE NEW THROTTLE PIPE

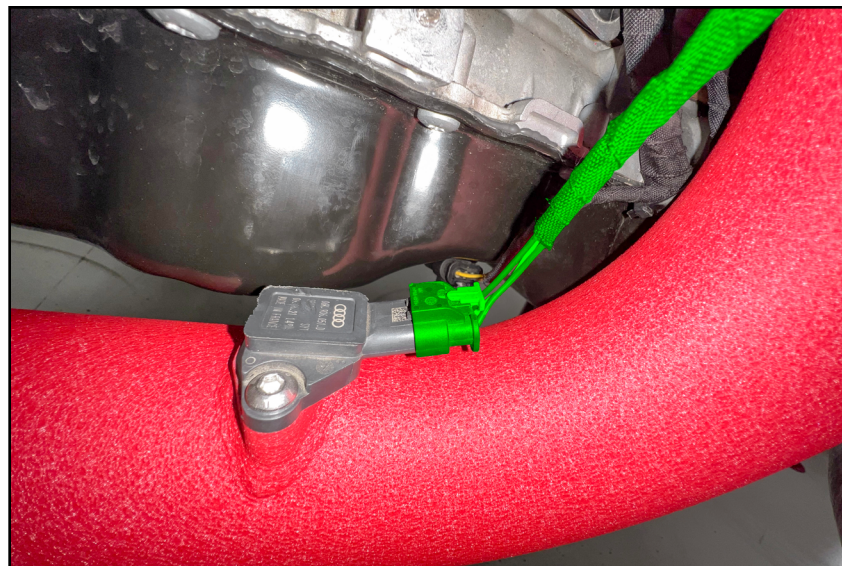
Step 5: Die Grinder

If your vehicle is equipped with an oversized aftermarket OE-location intercooler: Check for clearance between the diverter valve and the fan shroud. If necessary, carefully trim the raised castings on the fan shroud as shown to create additional space.



Step 6:

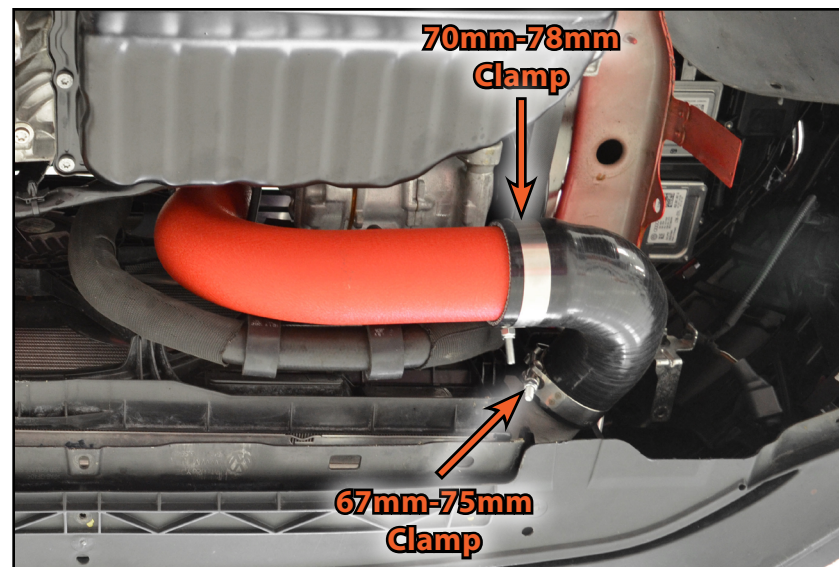
Reconnect the MAP sensor connector (highlighted in **GREEN**).



INSTALLING THE NEW THROTTLE PIPE

Step 7: 10mm Socket & Ratchet

Slide the provided clamps onto the intercooler inlet coupler as shown, then install it between the lower turbo outlet pipe and the intercooler, ensuring it is fully seated. Orient the clamps for clearance and ease of access, then adjust all the pipes and couplers to ensure clearance before fully tightening all the clamps.



Step 8: T30 Torx Socket & Ratchet

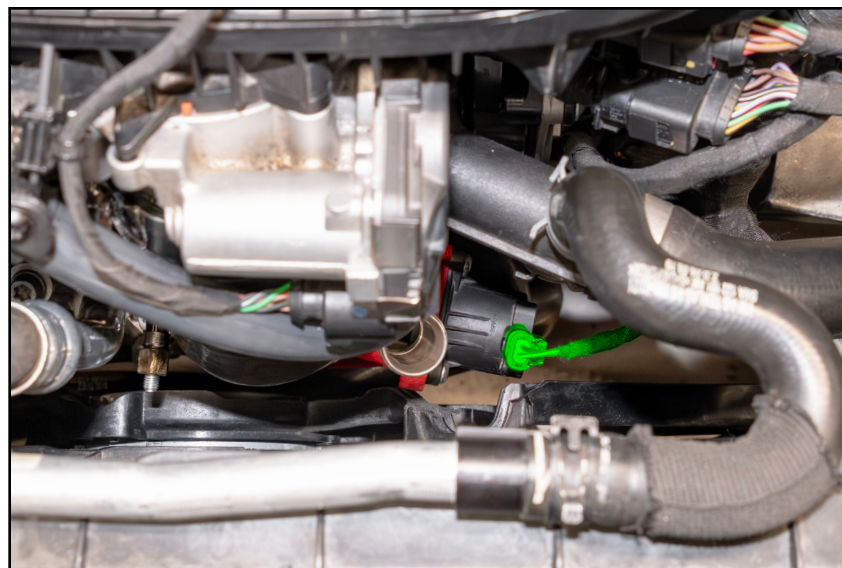
Reinstall the two screws (arrows) to secure the coolant pipe to the front of the intake manifold.



INSTALLING THE NEW THROTTLE PIPE

Step 9:

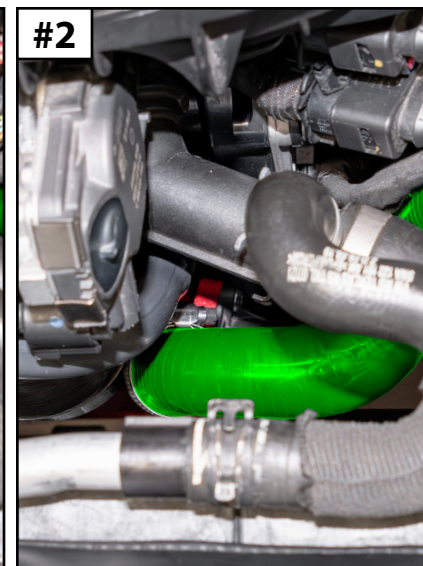
Reconnect the diverter valve connector (highlighted in **GREEN**).



Step 10: Hose Clamp Pliers

Compress the hose clamp and connect the OE diverter valve vent hose (highlighted in **GREEN** in **Photo #1**) to the port on the new throttle pipe.

If your vehicle is equipped with an ECS Intake System: Install the provided diverter valve vent hose (highlighted in **GREEN** in **Photo #2**), and tighten the clamp until snug.



INSTALLING THE NEW THROTTLE PIPE

Step 11: 7mm Socket & Ratchet

If your vehicle is equipped with an ECS Intake System: Install the provided diverter valve vent hose adapter (highlighted in **GREEN**) into the port in the bottom of the intake coupler and tighten the clamp until snug.



Step 12: Hose Clamp Pliers, T25 Torx, 7mm, 10mm Socket & Ratchet

Reconnect the diverter valve vent hose (highlighted in **GREEN** in inset photo) to the OE intake tube or provided adapter and reinstall the intake system. Reconnect the negative battery terminal and reinstall the engine cover.



Congratulations, Your installation is complete!

Your Charge Pipe 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.