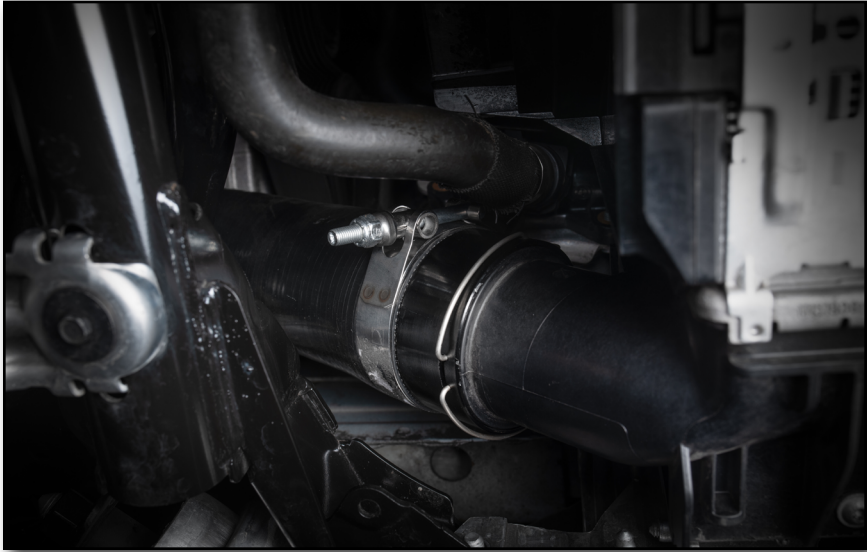




BMW N55 Charge Pipe Kit Installation Instructions



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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KIT CONTENTS



N55 Cold Side Charge Pipe Kit



N55 Hot Side Charge Pipe Kit

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

Turner Motorsport 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.

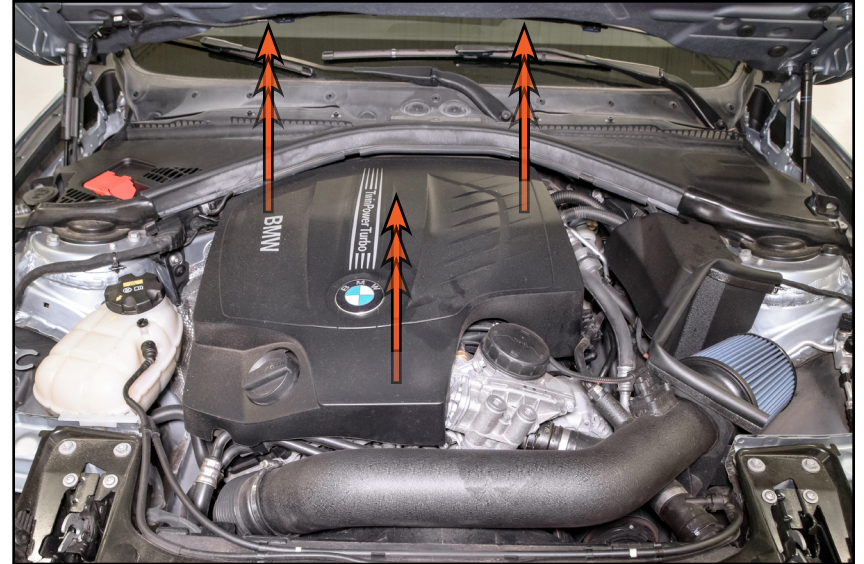


NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK CHARGE PIPES

Step 1:

Remove the engine cover by lifting upward to release it from the mounting grommets.



Step 2:

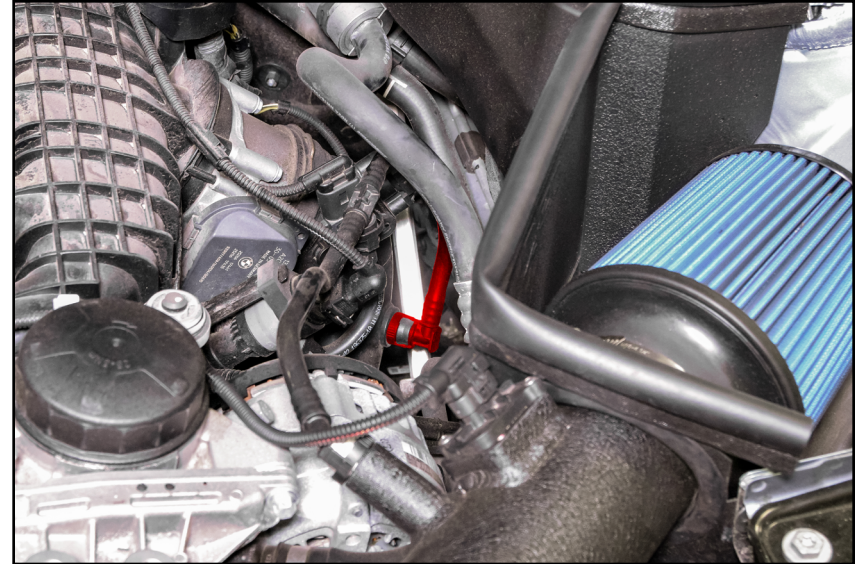
Depress the retaining tab and disconnect the connector (highlighted in **RED**) from the MAP sensor on the charge pipe.



REMOVING THE STOCK CHARGE PIPES

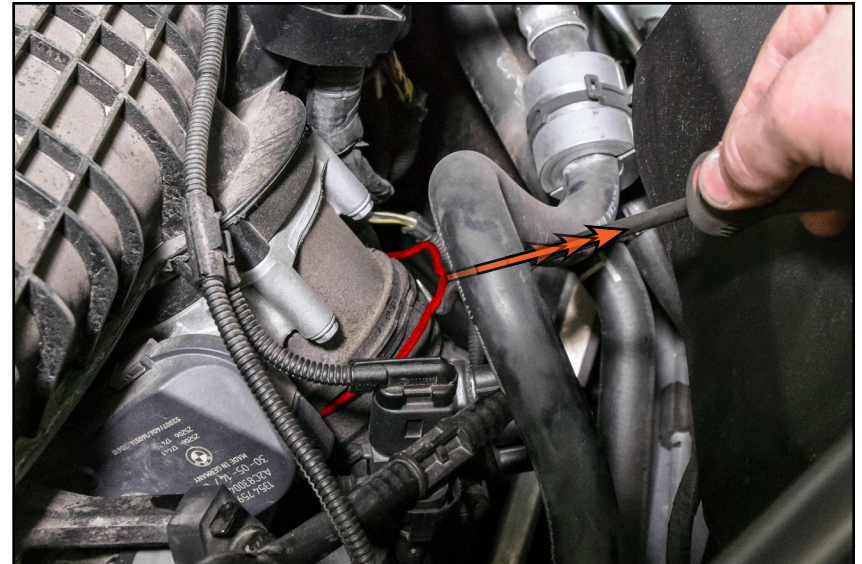
Step 3:

Vehicles with automatic transmissions only: Disconnect the vacuum line (highlighted in **RED**) from the flange on the charge pipe.



Step 4: Angled Pick

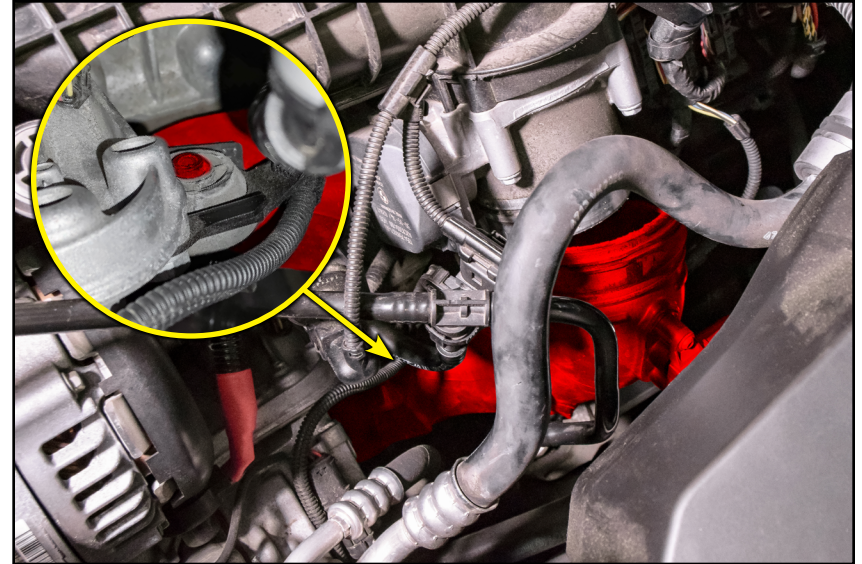
Pull the metal retaining clip (highlighted in **RED**) outward as shown to free the charge pipe from the throttle body.



REMOVING THE STOCK CHARGE PIPES

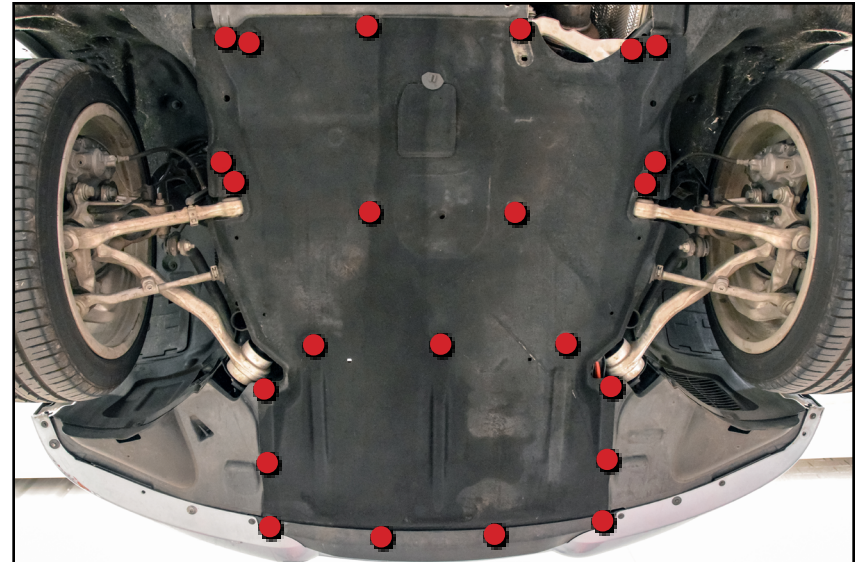
Step 5:

Pull the charge pipe (highlighted in **RED**) off of the throttle body and pull the mounting post free from the mounting grommet (inset photo).



Step 6: 8mm Socket & Ratchet

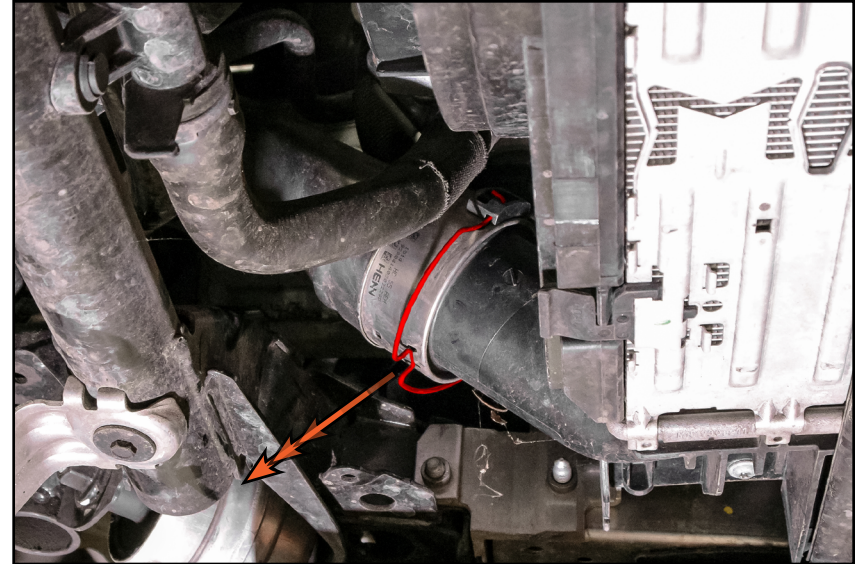
Safely lift and support the vehicle, then remove the fasteners (highlighted in **RED**) and remove the lower insulation panel from the vehicle.



REMOVING THE STOCK CHARGE PIPES

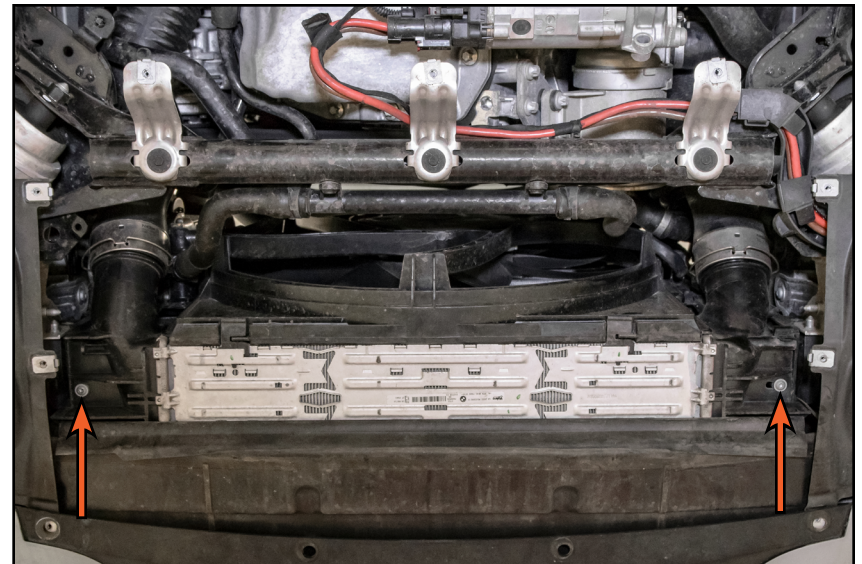
Step 7: Angled Pick

Pull the metal retaining clip (highlighted in **RED**) downward and pull the charge pipe off of the intercooler. Repeat this step for the turbo outlet hose.



Step 8: T25 Torx Socket & Ratchet

Remove the two screws (arrows) that secure the intercooler to the core support, then pull downward to remove the intercooler and set it aside.



REMOVING THE STOCK CHARGE PIPES

Step 9:

Carefully guide the charge pipe down and out from the vehicle as shown.



Step 10: Angled Pick

Looking down past the coolant reservoir on the RH side of the engine, locate and pull up on the metal retaining clip (highlighted in **RED**) to free the turbo outlet hose from the turbocharger, then remove the turbo outlet hose from below.



INSTALLING THE NEW CHARGE PIPES

Step 1: Angled Pick

The four metal retaining clips must be removed from each end of the stock charge pipes and transferred to the new billet adapters provided. In order to remove the clips, the plastic retainer must be pried off of the ends of each hose as shown.



Step 2:

Install the provided o-rings into the groove in each coupler as shown.



INSTALLING THE NEW CHARGE PIPES

Step 3:

Install the new turbo outlet adapter (highlighted in **GREEN**) onto the turbo outlet and snap the metal retaining clip (arrow) into place.



Step 4:

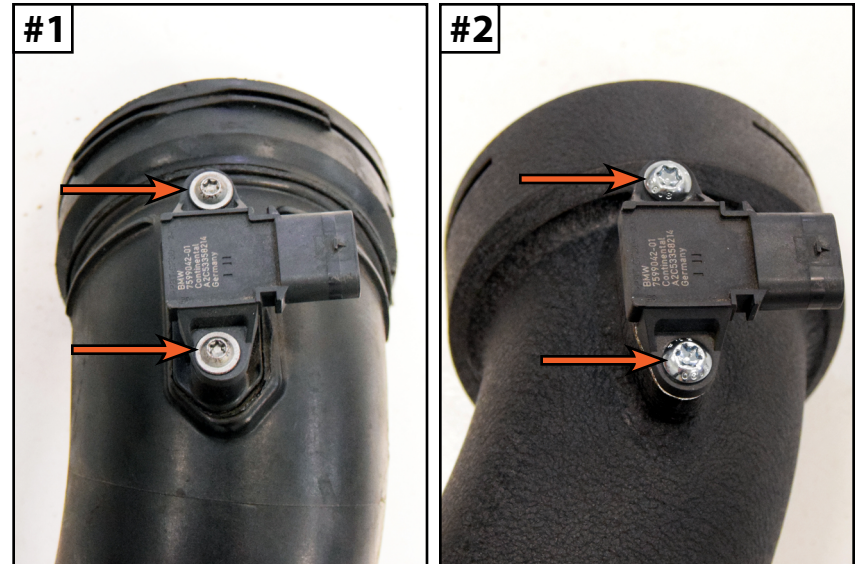
Install the two adapters (highlighted in **GREEN**) onto the intercooler as shown and snap the metal retaining clips (arrows) into place.



INSTALLING THE NEW CHARGE PIPES

Step 5: T20, T30 Torx Socket & Ratchet

Remove screws (arrows in **Photo #1**) and remove the MAP sensor from the stock charge pipe, then transfer it into the new charge pipe, securing it in place using the new provided screws (arrows in **Photo #2**).



Step 6:

Install the provided o-ring into the groove in the new charge pipe as shown.



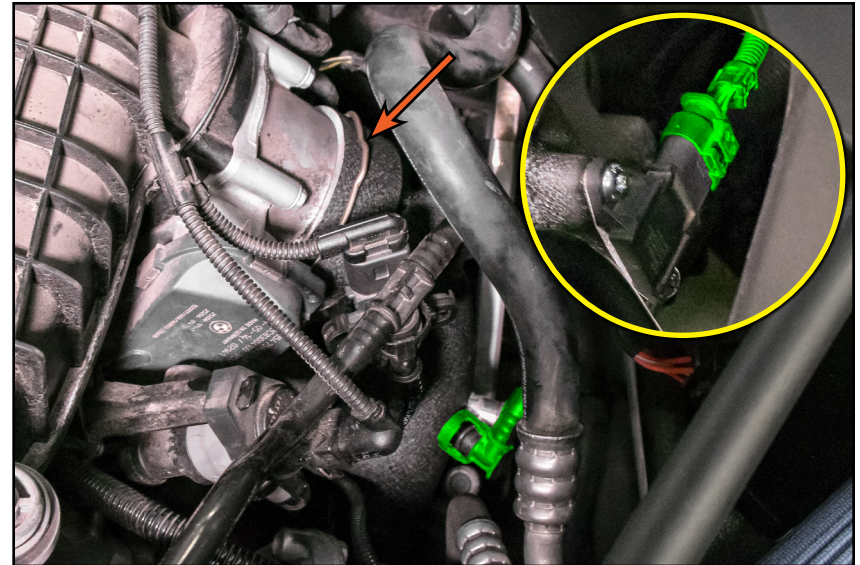
INSTALLING THE NEW CHARGE PIPES

Step 7:

Guide the new charge pipe up onto the throttle body and snap the metal retaining clip (arrow) into place, then reconnect the MAP sensor connector (highlighted in **GREEN** in inset photo).

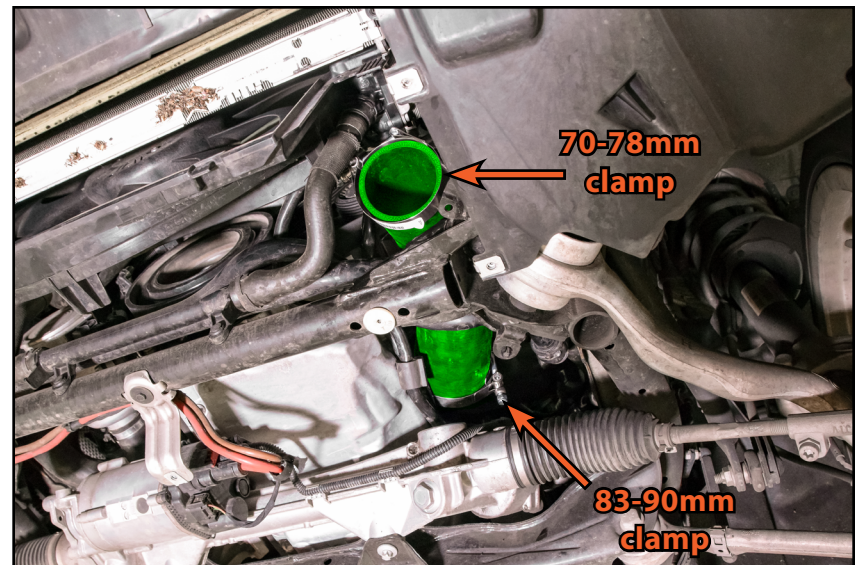
Vehicles with automatic transmissions only: Connect the vacuum line (highlighted in **GREEN**) to the port on the new charge pipe as shown.

Vehicles with manual transmissions only: Transfer the vacuum cap ([replacements available HERE](#)) from the stock charge pipe to the port on the new charge pipe (not shown)



Step 8: 11mm Socket & Ratchet

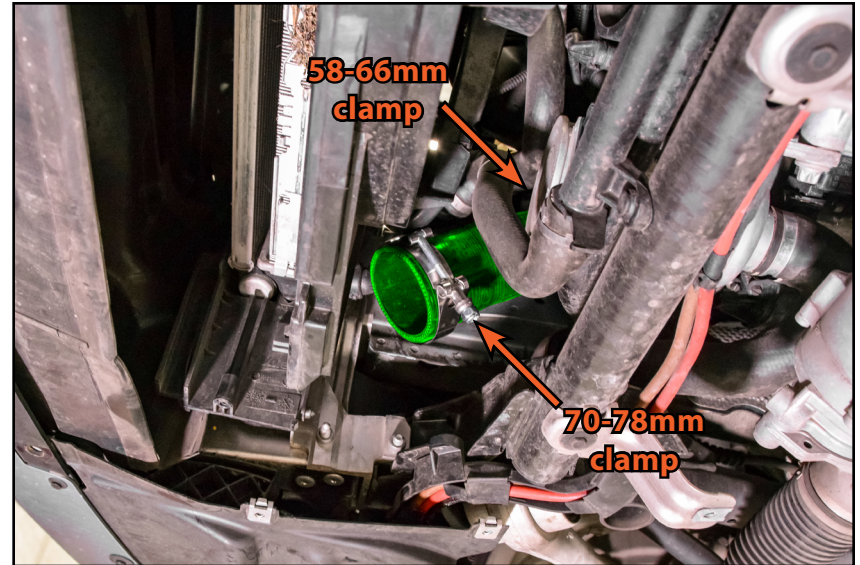
Slide the cold side silicone hose (highlighted in **GREEN**) onto the charge pipe and loosely install the two clamps as shown to hold it in place.



INSTALLING THE NEW CHARGE PIPES

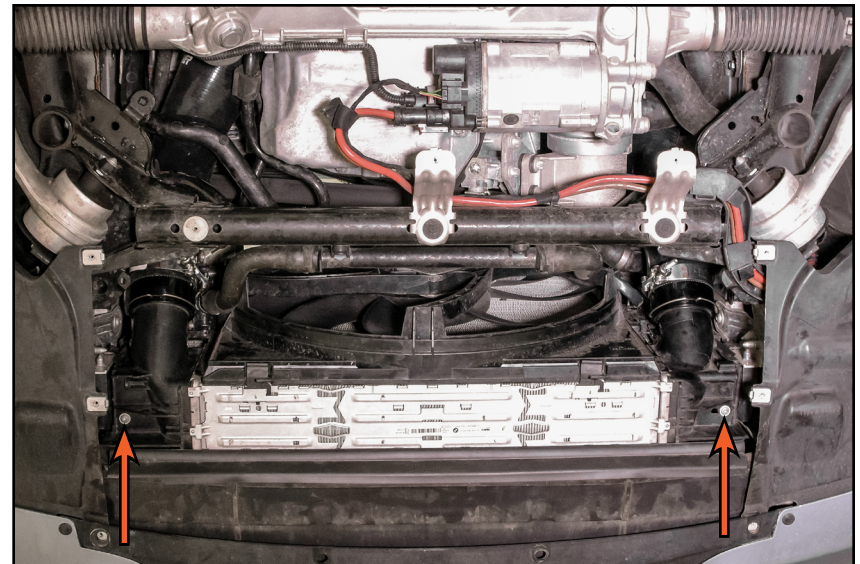
Step 9: 11mm Socket & Ratchet

Slide the hot side silicone hose (highlighted in **GREEN**) onto the turbo outlet adapter and loosely install the two clamps as shown to hold it in place.



Step 10: T25 Torx, 11mm Socket & Ratchet

Lift the intercooler back up into place and slide the two silicone hoses onto the intercooler adapters as shown, then reinstall the two screws (arrows) to secure the intercooler in place. Adjust the two silicone hoses as needed, until they are oriented correctly, then fully tighten all the clamps.



Congratulations, your installation is complete!

Your Charge Pipe Kit installation is complete!



These instructions are provided as a courtesy by Turner Motorsport

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