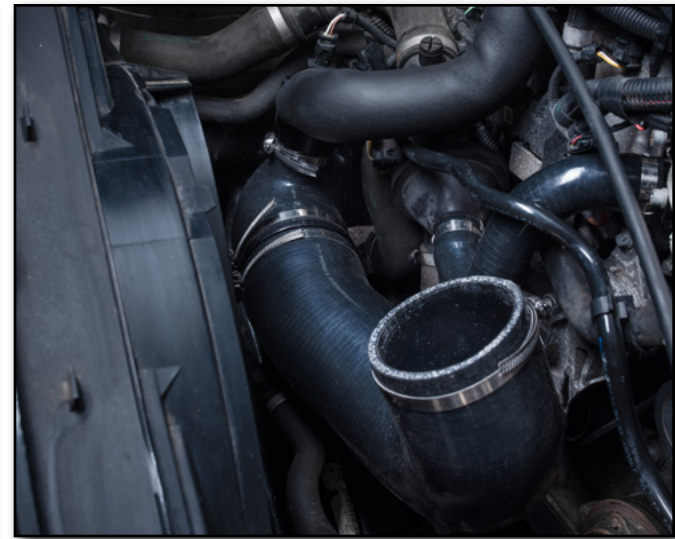




## BMW N20 Silicone Turbo Inlet Pipes Installation Instructions



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



Lower Inlet w/ Clamps



Fitting Adapter Kit



Upper Inlet Coupler



Upper Inlet w/ Clamps

## 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.

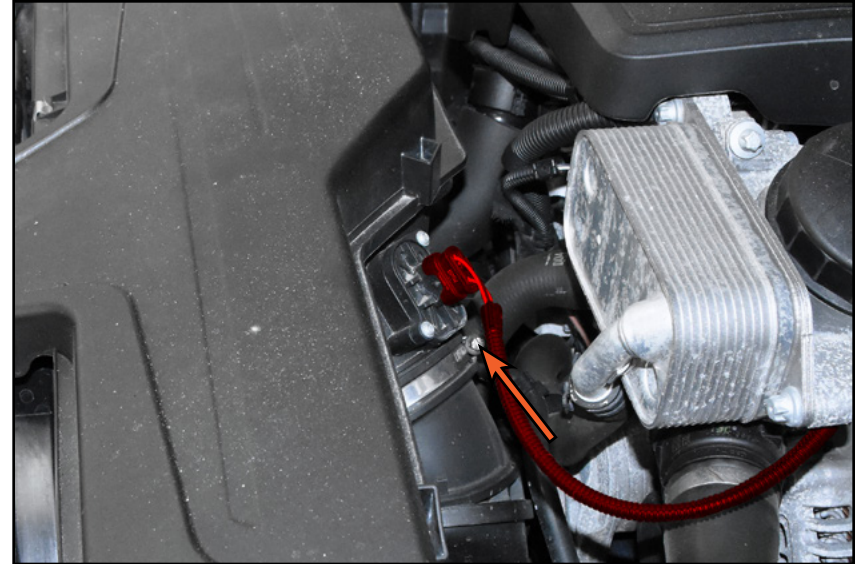


**NEVER** get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

## REMOVING THE STOCK INLET PIPES

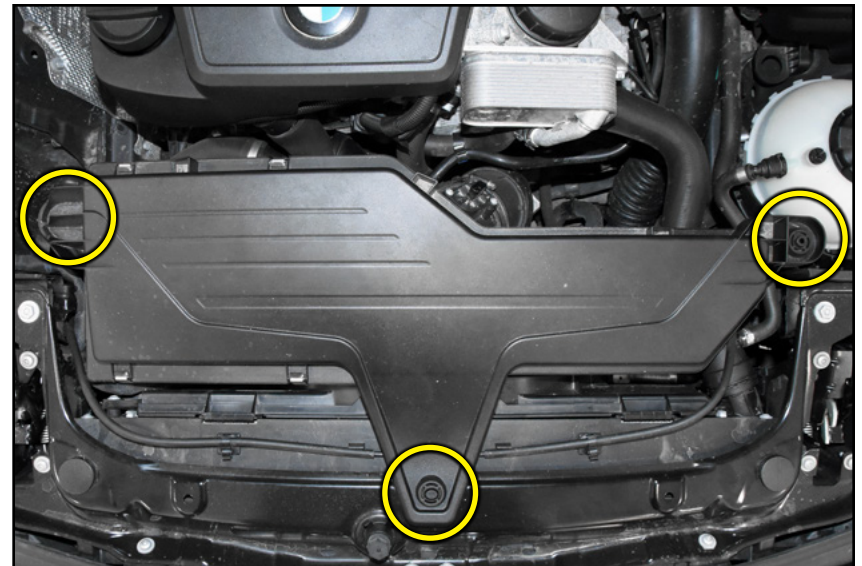
Step 1: Flat Head Screwdriver -OR- 6mm Socket & Ratchet

Disconnect the MAF sensor connector (highlighted in **RED**), then loosen the clamp (arrow) which secures the intake to the upper inlet pipe.



Step 2:

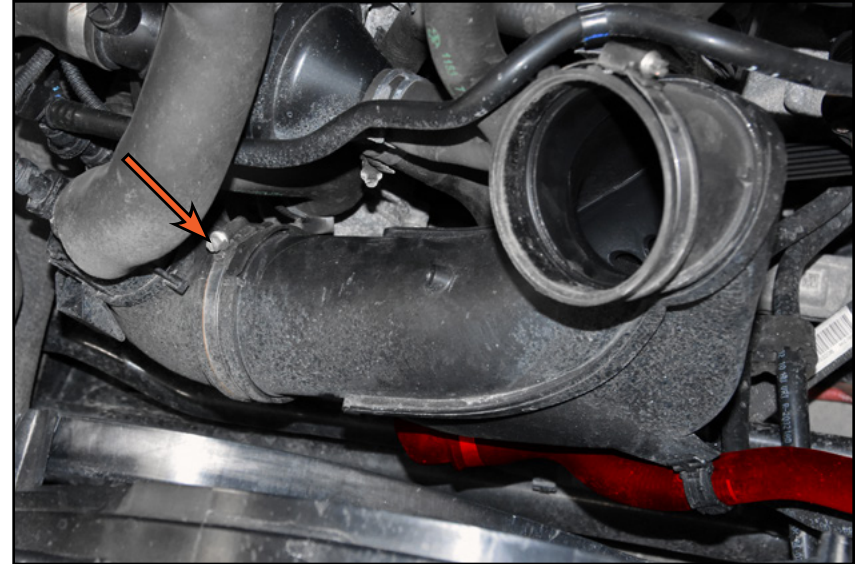
The intake is secured to the vehicle by three grommets (circled in **YELLOW**). Lift up to pop the intake free from each grommet then remove the intake and set it aside.



## REMOVING THE STOCK INLET PIPES

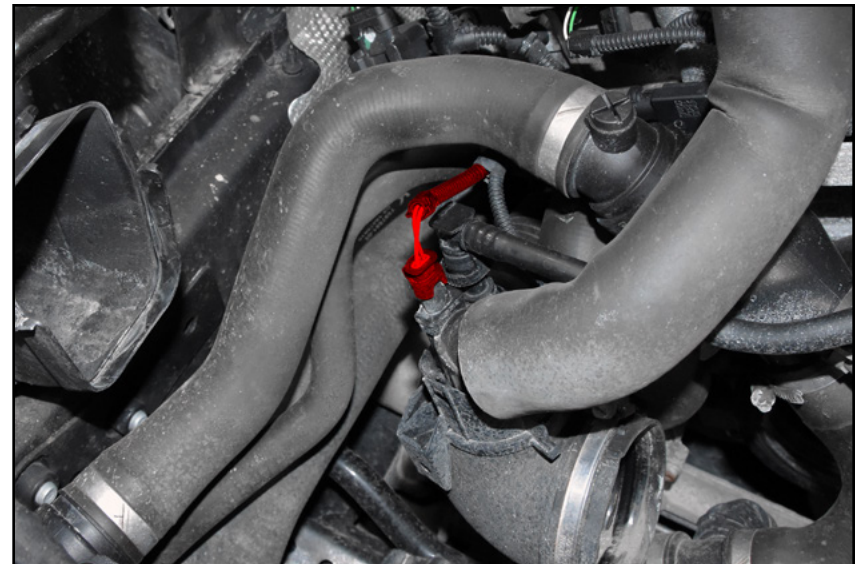
Step 3: Flat Head Screwdriver -OR- 6mm Socket & Ratchet

Pry the coolant hose (highlighted in **RED**) free from the clip, loosen the clamp (arrow) and remove the upper inlet pipe.



Step 4:

Disconnect the sensor connector (highlighted in **RED**) from the PCV vent pipe.



## REMOVING THE STOCK INLET PIPES

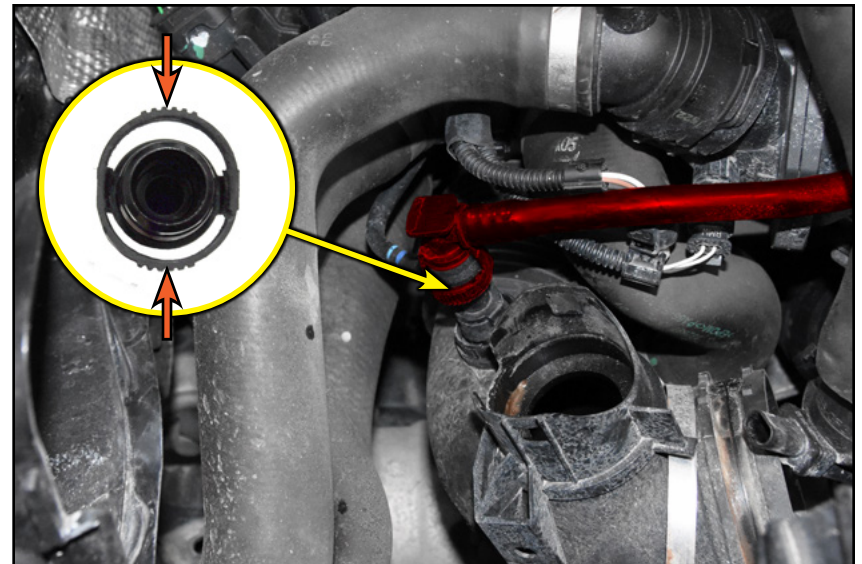
### Step 5:

Depress the two locking tabs (arrows) and pull the PCV vent pipe (highlighted in **RED**) free from the lower inlet pipe.



### Step 6:

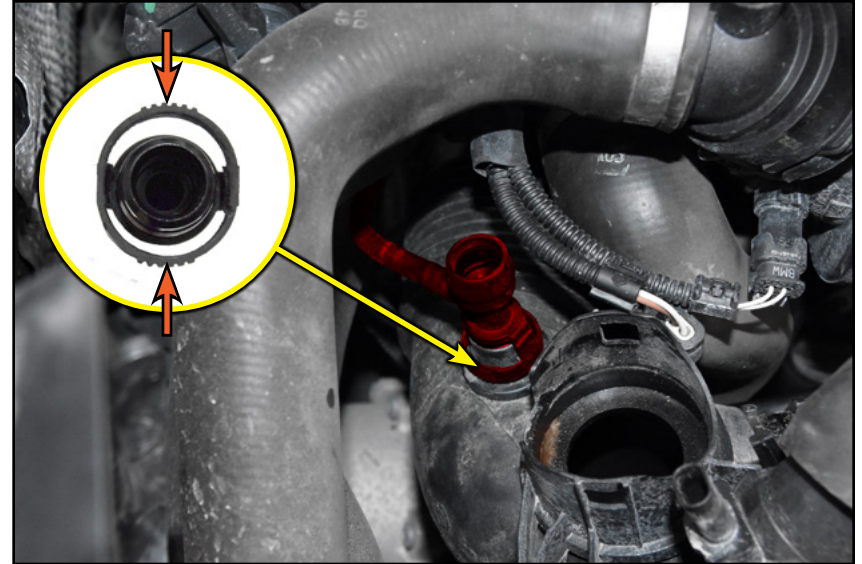
Depress the two locking tabs and pull the top plastic line off of the bottom plastic line.



## REMOVING THE STOCK INLET PIPES

### Step 7:

Depress the two locking tabs and pull the bottom plastic line off of the flange on the lower inlet.



### Step 8: 10mm Socket, Extension & Ratchet

Locate and remove the nut (inset photo) which secures the lower inlet to the turbo, set this nut aside as we will be reusing it later. Remove the lower inlet pipe from the vehicle.



The nut is located at the 4 o'clock position underneath the inlet pipe, using a long extension on your ratchet you can break the nut free, then loosen it the rest of the way by hand so that you don't accidentally drop it.



## INSTALLING THE NEW INLET PIPES

### Step 1:

Pry the rubber seal free from the end of the stock lower inlet and transfer it to the new turbo inlet flange as shown.



### Step 2: Flat Head Screwdriver -OR- 8mm Socket & Ratchet

Install the turbo inlet flange and the provided fitting adapters into the new lower inlet pipe using the provided clamps as shown. Use the stock lower inlet pipe as a guide to ensure the new turbo inlet flange and PCV vent pipe fitting are oriented correctly.



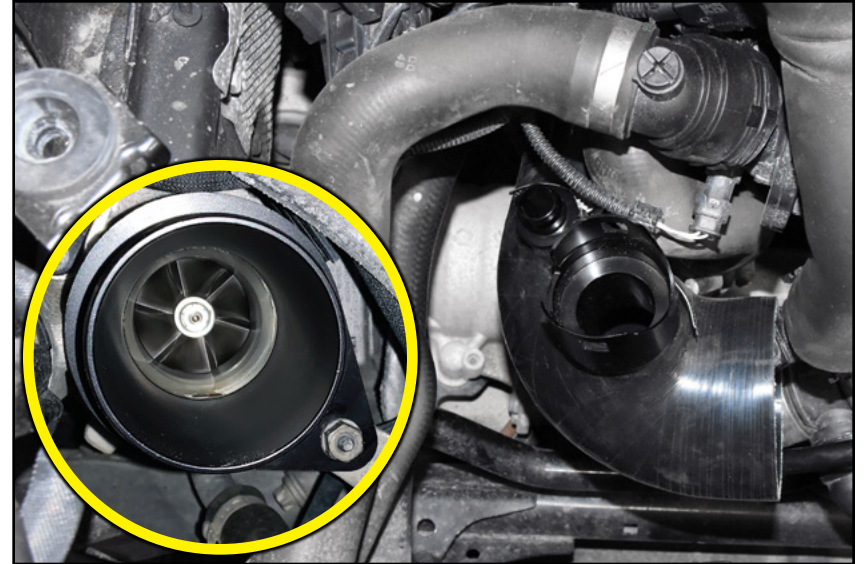
Take your time here and ensure that the position of the hole in the new turbo inlet flange matches that of the one we removed, failure to do so can cause misalignment of the pipes.



## INSTALLING THE NEW INLET PIPES

### Step 3: 10mm Socket, Extension & Torque Wrench

Slide the assembled lower inlet into place so that the stud on the turbo slides through the hole in the new turbo inlet flange. Reinstall the 10mm nut (as shown in inset photo) and tighten it until snug.



### Step 4:

Slide the bottom plastic line (highlighted in **GREEN**) onto the flange on the new lower inlet until the two locking tabs “click” into place.



## INSTALLING THE NEW INLET PIPES

### Step 5:

Slide the top plastic line (highlighted in **GREEN**) onto the flange on the bottom plastic line until the two locking tabs “click” into place.



### Step 6:

Slide the PCV vent pipe (highlighted in **GREEN**) onto the flange on the new lower inlet until the two locking tabs “click” into place.



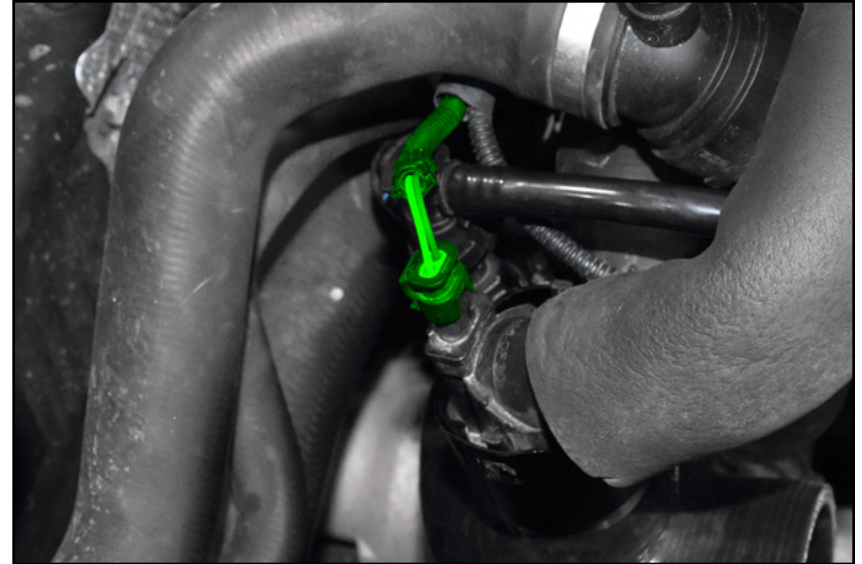
If you are having trouble installing the PCV vent pipe into the flange, it's likely due to improper orientation of the flange. It may be necessary to rotate the flange 180° to achieve proper orientation.



## INSTALLING THE NEW INLET PIPES

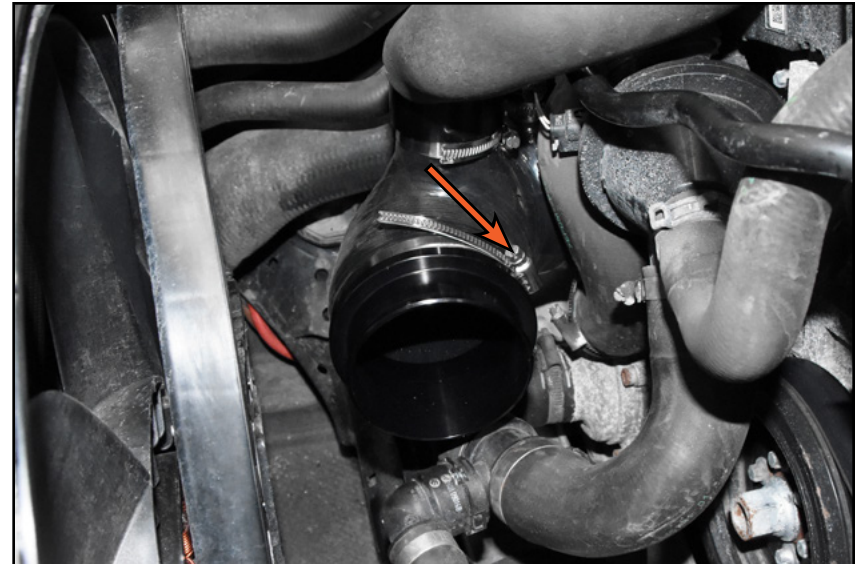
### Step 7:

Reconnect the PCV vent pipe connector (highlighted in **GREEN**).



### Step 8: Flat Head Screwdriver -OR- 8mm Socket & Ratchet

Slide the upper inlet coupler into the lower inlet until it is flush, then install and tighten the clamp (arrow)



## INSTALLING THE NEW INLET PIPES

Step 9: Flat Head Screwdriver -OR- 8mm Socket & Ratchet

Slide the upper inlet onto the coupler and install and tighten the clamp (arrow). Slide the remaining clamp onto the end of the inlet as shown.



Step 10:

Reinstall the intake by lining up the three studs with their grommets then pushing down to pop them into place.



## INSTALLING THE NEW INLET PIPES

Step 11: Flat Head Screwdriver -OR- 8mm Socket & Ratchet

Slide the end of the upper inlet onto the flange on the intake and tighten the clamp (arrow).



Step 12:

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



***Congratulations, your installation is complete!***

## Your N20 Silicone Turbo Inlet Pipes installation is complete!



### **These instructions are provided as a courtesy by Turner Motorsport**

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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