

**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.



# TABLE OF CONTENTS

Installation and Safety Information	<u>og.3</u>
Removing the Stock Charge Pipes	<u>og.4</u>
Installing the New Charge Pipes	<u>og.9</u>

# **KIT CONTENTS**



N55 Cold 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.



#### Step 1:

Grasp the engine cover and pull it upwards to release it from its mounting grommets.



#### Step 2:

Depress the locking tab and pull the connector (highlighted in **RED**) off of the MAP sensor on the charge pipe.





### Step 3:

Remove the vacuum line (highlighted in **RED**) by pinching the two sides inward and then pulling it off of the flange on the charge pipe.



#### Step 4: Angled Pick

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





### Step 5:

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



### Step 6: 8mm Socket & Ratchet

Remove the fasteners (highlighted in **RED**) which secure the belly pan to the underside of the vehicle.





Step 7:

**Angled Pick** 

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





#### Step 8: T25 Torx

Remove the two screws (arrows) which hold the intercooler up into place, then pull down to remove the intercooler and set it aside.



#### Step 9:

Carefully rotate the charge pipe as needed as you guide it 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 pry up on the metal retaining clip (highlighted in **RED**) holding the turbo outlet hose in place. Remove the turbo outlet hose from beneath.





Step 1:

**Angled Pick** 

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



#### Step 2:

Each coupler comes with a new o-ring to ensure a tight, leak free seal, install the provided o-rings into the groove in each coupler as shown.





#### Step 3:

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





#### Step 4:

Install the two intercooler adapters (highlighted in **BLUE**) onto the intercooler as shown and install the metal retaining clips to hold them in place.



Step 5: T20 & T30 Torx

Remove the MAP sensor from the stock charge pipe and install it into the new charge pipe using the new provided screws.



#### Step 6:

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





### Step 7:

Slide the new charge pipe up onto the throttle body and install the metal retaining clip (highlighted in **BLUE**) to hold it in place, then connect the vacuum line and MAP sensor connector (highlighted in **BLUE**).



### Step 8: 11mm Socket & Ratchet

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





Step 9: 11mm Socket & Ratchet

Slide the hot side silicone hose (highlighted in **BLUE**) up over 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 over the intercooler adapters as shown, then install the two screws (arrows) to hold the intercooler up into place. Adjust the two silicone hoses as needed until they are oriented correctly, then tighten down all the clamps.

### Congratulations, your installation is complete!





### Your N55 Charge Pipe Kit installation is complete!



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

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