



## **Installation Manual:**

### **F87 M2C Mid-Pipe - Equal Length (EL)-Resonated**

### **DISCLAIMER**

The below information assumes that the purchaser has signed the “Off Road Use Only Waiver” form that can be found at the following url:

<http://images.activeautowerke.com/Installation%20PDF%27s/vehiclewaiver2.pdf>

The above waiver must be signed and submitted to Active Autowerke prior to purchase of the performance products.

Prior to beginning the installation process – please read the following instruction manual carefully and in full. Ensure that all necessary parts are available to perform the complete installation.

By the Installation of the Active Autowerke Equal Length (EL) Mid-Pipe (AA-EXHF7XMEL-MIDPIPE++KIT) – you are agreeing to all terms and conditions stated below:

- The purchaser assumes full responsibility for the use of these products on their automobiles which may or may not conform to applicable laws and regulations for on road or highway use.
- The purchaser acknowledges that Active Autowerke states that products are intended for off road or race track use only
- The purchaser agrees that Active Autowerke shall bear no responsibility in ensuring that their automobiles are compliant with State, Federal, Provincial, or local ordinances and emissions authorities.
- The waiver of compliance shall cover all past and future purchases from Active Autowerke
- Active Autowerke assumes no responsibility for damages occurring from misuse, abuse, improper installation, improper operation, lack of responsible care, or part incompatibility issues.

### **WARRANTY INFORMATION**

Included with your purchase of Active Autowerke premium performance products is a warranty card. This warranty card states the following:

Active Autowerke provides a limited one-year warranty against material defects and workmanship for one year (starting from the date of the original purchase). Warranty only applies to the original purchaser and is non-transferrable.

Exceptions to the warranty include, but are not limited to “wear and tear” such as brake rotors, brake pads, flywheels and clutches and “garage sale” items (of which deposits and sales are FINAL and non-refundable).

#### **Warranty will be VOID if:**

- The product is abused, misused, or improperly maintained
- Repairs have been made or attempted by anyone other than an authorized Active Autowerke repair or maintenance facility
- Repairs are required due to normal “wear and tear” and regular usage
- Alterations or Modifications are made to the original Active Autowerke Product
- The Product is classified as “Consumable”
- The Product has been involved in an automobile accident or there is excessive damage to the product not caused by material workmanship or material defects

The warranty is limited to repairs and/or replacements of the product or part(s) found to be defective without additional charges to the purchaser. Active Autowerke reserves the right to refund the complete purchase price for the defective item ONLY and will not be held liable for losses or damages arising from the defect.

If a part component from Active Autowerke product, system, kit is found to be defective – this warranty shall only apply to the defective part or component and shall not require Active Autowerke to repair, replace, or refund the complete Active Autowerke product, system or kit.

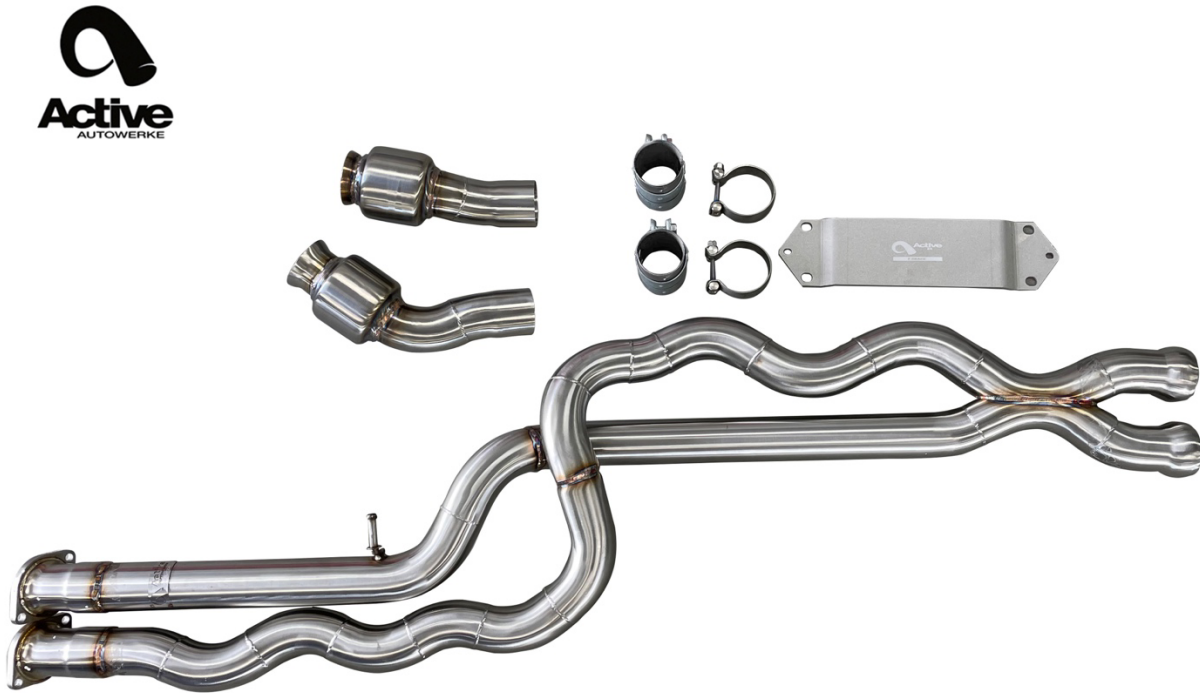
### MINIMUM REQUIRED TOOLS

- Lubrication Spray
- Sawzall or Preferred Cutting Tool
- Deep Socket 10mm
- Deep Socket 11mm
- Deep Socket 13mm
- Deep Socket 15mm
- Torx T50
- Large Flathead Screwdriver
- Spacer Block (Included in the Kit)
- E10 Torx



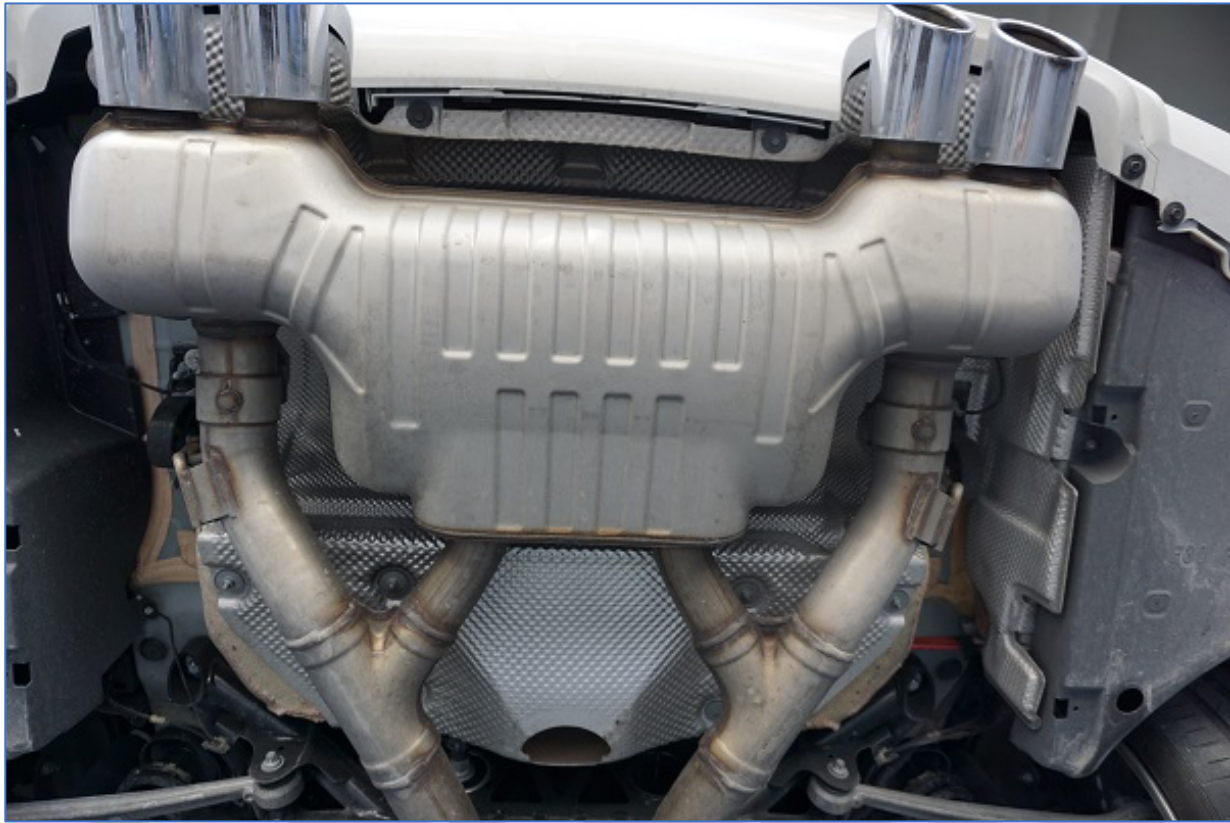


### F87 M2C Mid-Pipe Equal Length (EL)-Resonated Kit (Included Parts):



Pictured: Equal Length Mid-Pipe, Resonated Pipes, Clamps, and Active Autowerke Center Plate.

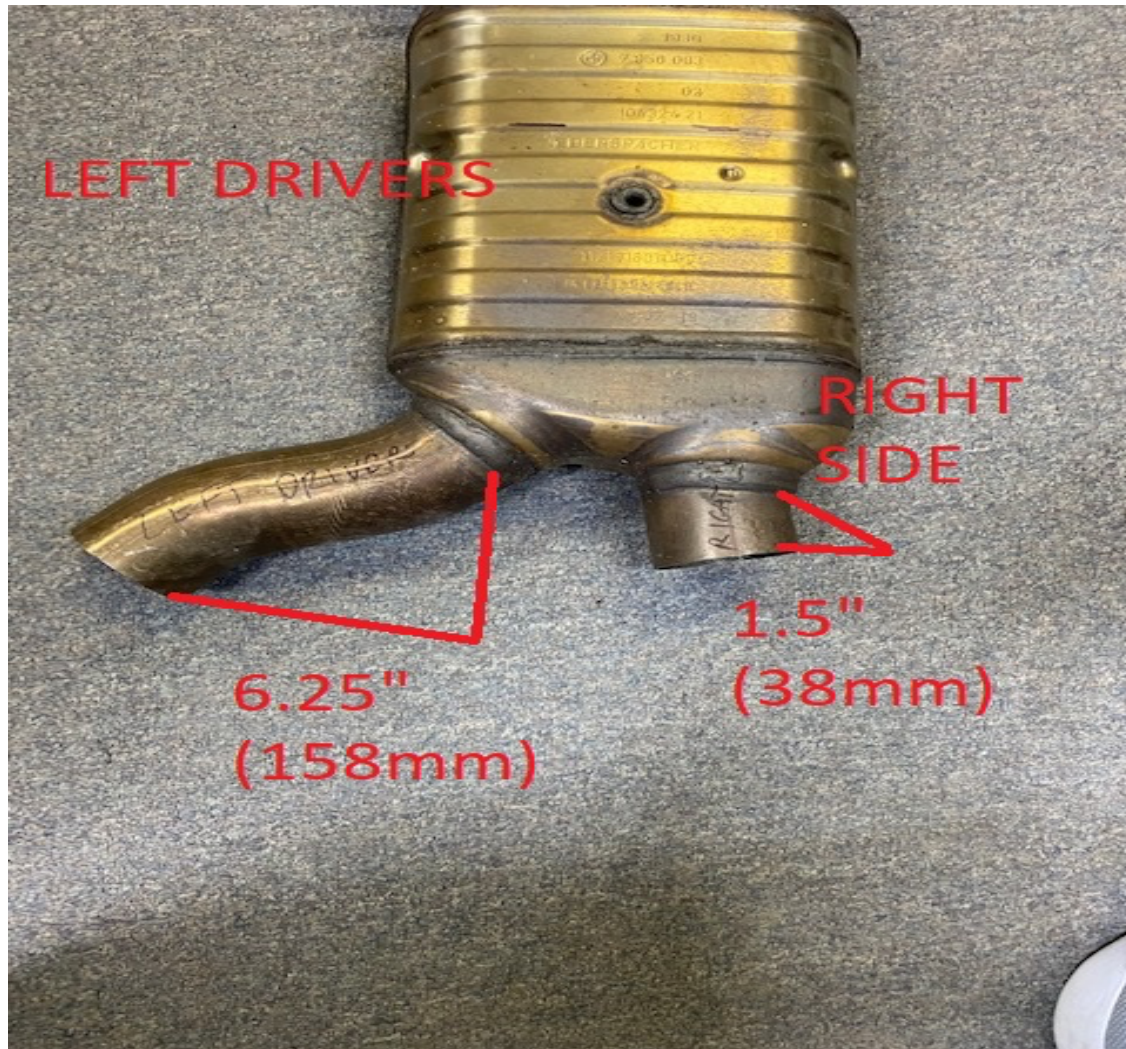
- Active Autowerke Equal Length Mid-Pipe
- Active Autowerke Rear A Pipe (Rear A – Passenger Side)
- Active Autowerke Rear B Pipe (Rear B – Driver's Side)
- Ball Clamps 65mm (2)
- Torca Slip Clamps 65mm (2)
- Active Autowerke F Brace (Center Plate)



### **Step 1 Separate Stock Mid-Pipe from Rear Pans:**

Customers using an Active Autowerke Mid-Pipe with a stock M2C rear exhaust will be required to separate the stock Mid-Pipe from the rear pans.

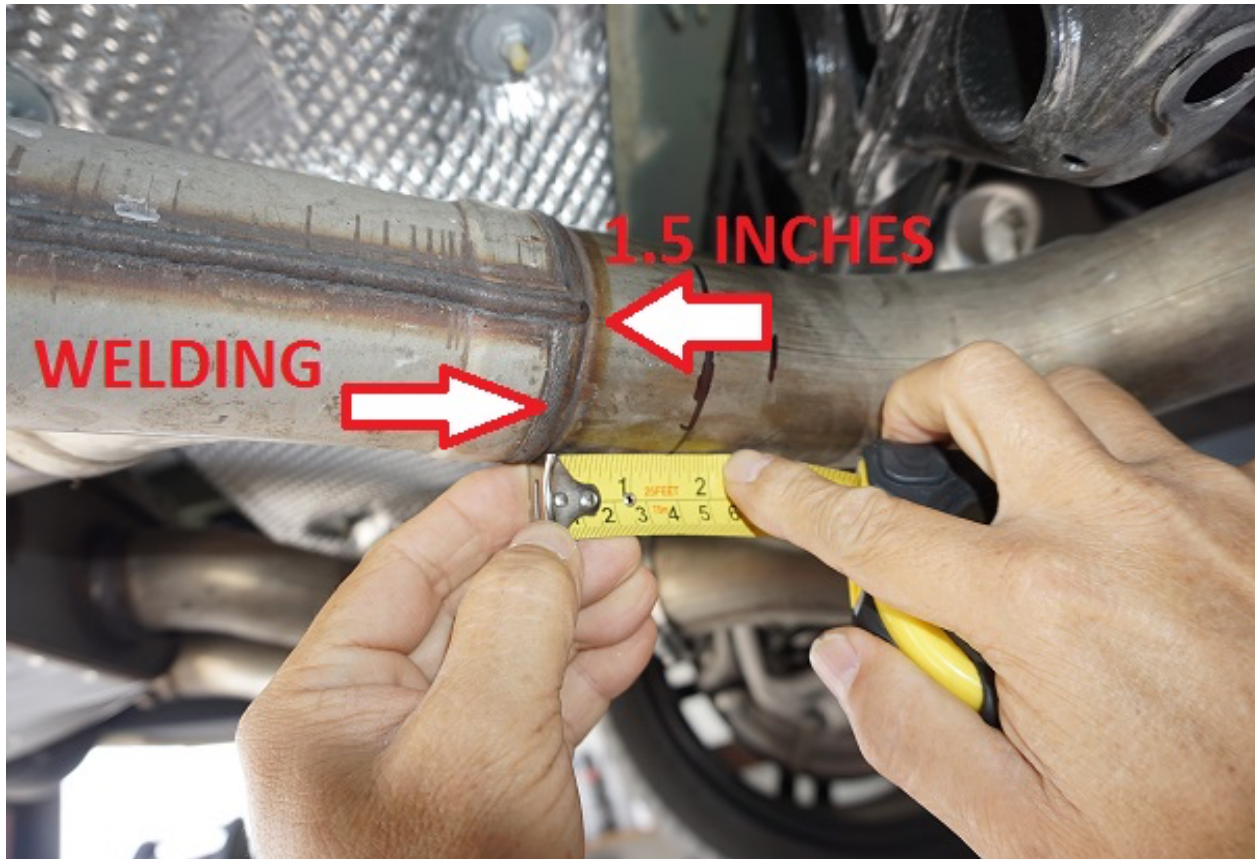
\*Suggestion: Remove entire exhaust system prior to cutting/separating.



### Step 2 Cutting

Cut the Pipe after the center resonator towards rear pan, as shown in the diagram below.





### **Step 3 Measurement**

NOTE: Picture for illustration (how to measure from weld)

Measure 1.5 inches from the welding. Right side (passenger- Left hand drive car)



### Step 4 Clamp

65 mm clamp (included in the Kit)

NOTE: Use hose band clamp to make equal mark around pipe, before cut.





### Step 5 Measurements and Markings

Mark the left side 6 ¼ inches from the weld (Drivers – Left Hand Drive Car) – use a clamp to complete the mark around the pipe.

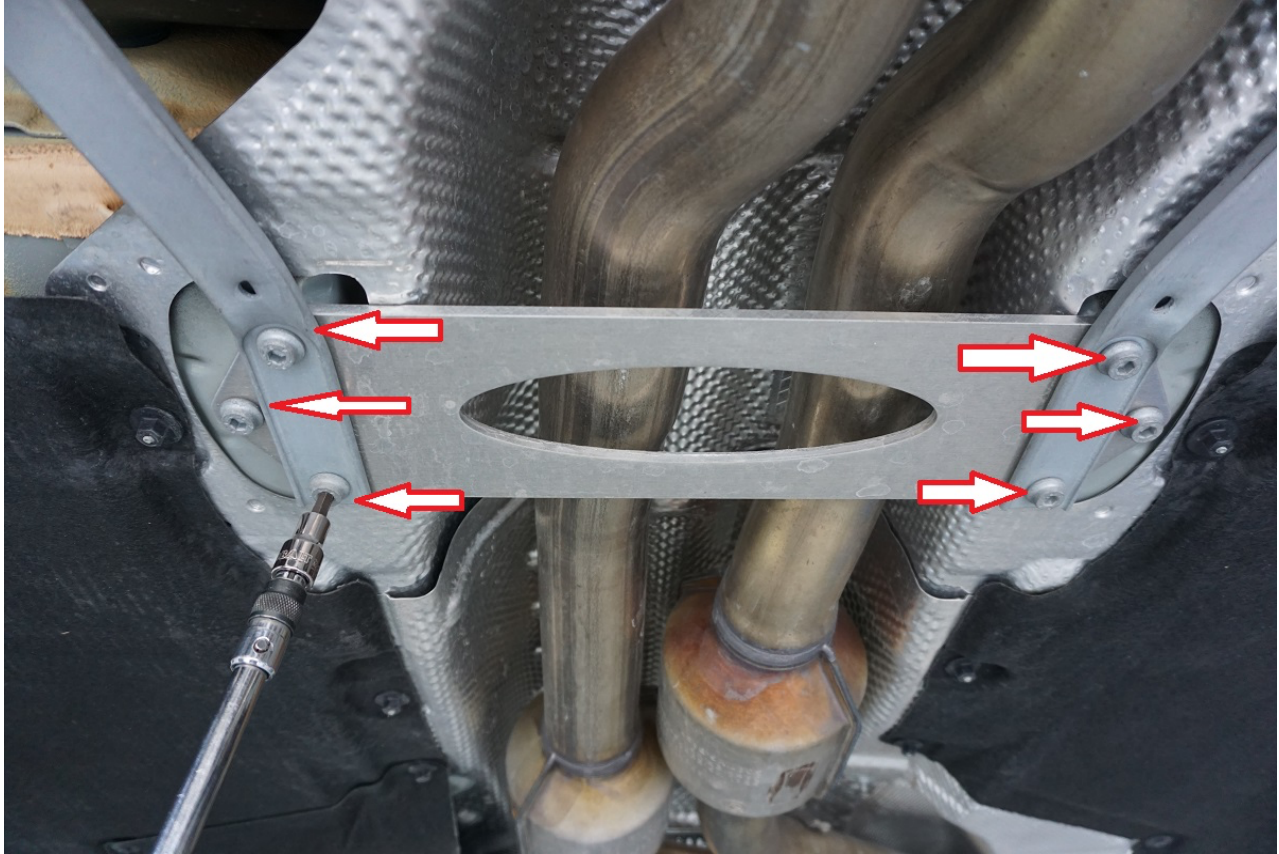
\*Suggestion Remove exhaust system prior to cutting the pipe.





### Step 6 Remove Nuts

Remove 11mm nuts – The Torx Bolts for the alignment plate can remain in place.



## Step 7 Remove Center Plate

Remove 6mm Allen Bolts from the Center Brace.

Replace with Active Autowerke F-Brace (included in Kit)

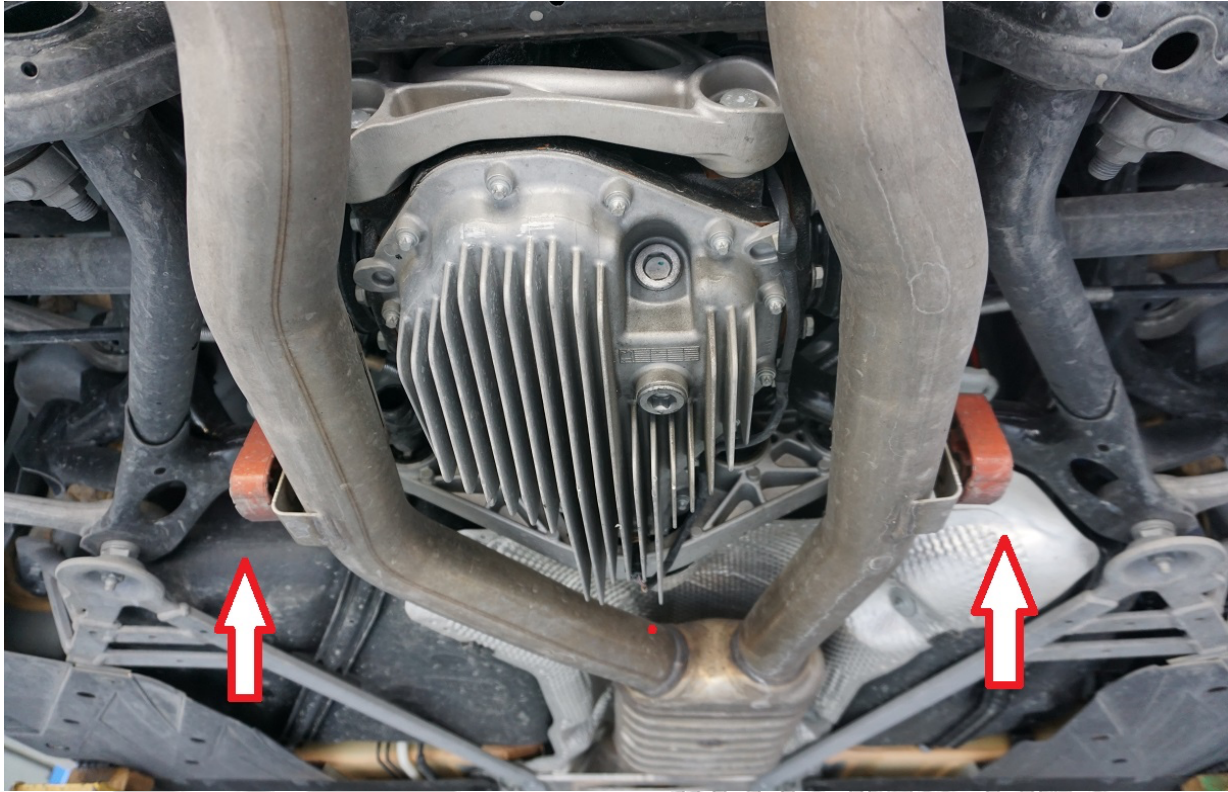




## Step 8 Remove Trans Mount

Support the exhaust system with a suitable jack for safety.

Remove the Gray Transmission Mount (E10 Torx)



### Step 9 Remove Mounts

Remove left and right Diff “Red Mounts” as shown in the picture above (13mm and 8mm respectively)

\*Suggestion: Disconnect any Servo Motor Connectors



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### Step 10: Remove Entire Mid-Pipe

Carefully remove entire mid-pipe from the vehicle, ensuring that all bolts and parts are kept safely for installation of the new mid-pipe.

Cut off rear pan at the marked area.





### Step 11 Re-Install Mounts

Place the three exhaust mounts removed from the original mid-pipe onto the new mid-pipe. Lubricate liberally to ensure mounts fit securely in place.



### **Step 12 Install Mid-Pipe**

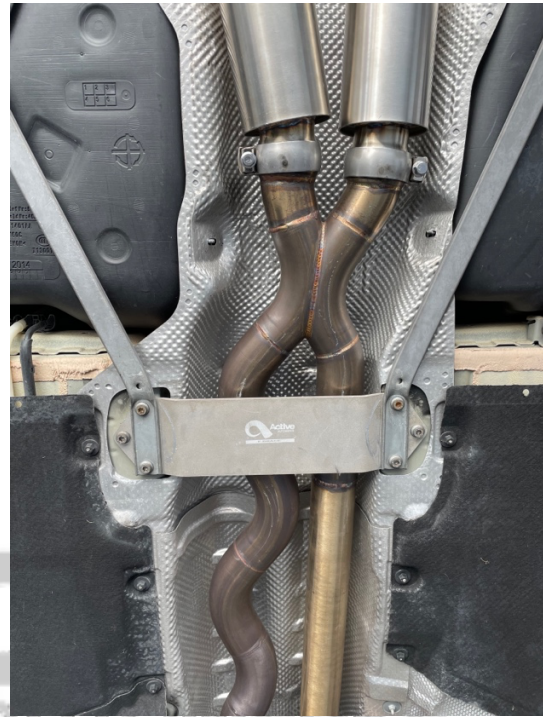
Install the mid-pipe securely with 11mm nuts. Tighten left side (floating flange) first. This will help to center Mid pipe in tunnel. Tighten right side.



### **Step 13 Transmission Mount**

Use the transmission mount to support during installation.





### **Step 14 Install Active Autowerke Center Plate**

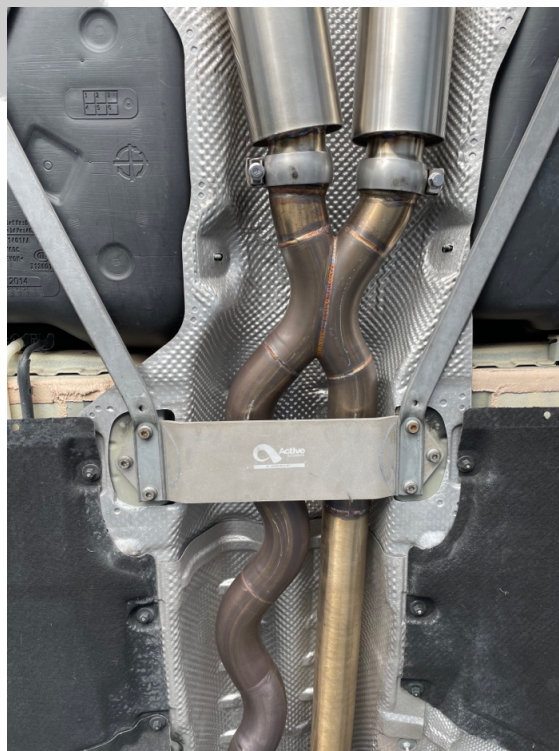
Space mid-pipe above brace leaving half an inch of space (0.5 inches). The installation kit includes a foam spacer that can be used to ensure there is adequate space (as seen the image above) – remove spacer after the bolts have been tightened.

Resonator pipes used for illustration purposes.



### Step 15 Tighten Ball Clamps

Slide on the ball clamps and take up slack. Begin with the bolt heads on the inside. The ball clamps will be positioned facing towards the outside when tightened as seen in the image<sup>®</sup> below.

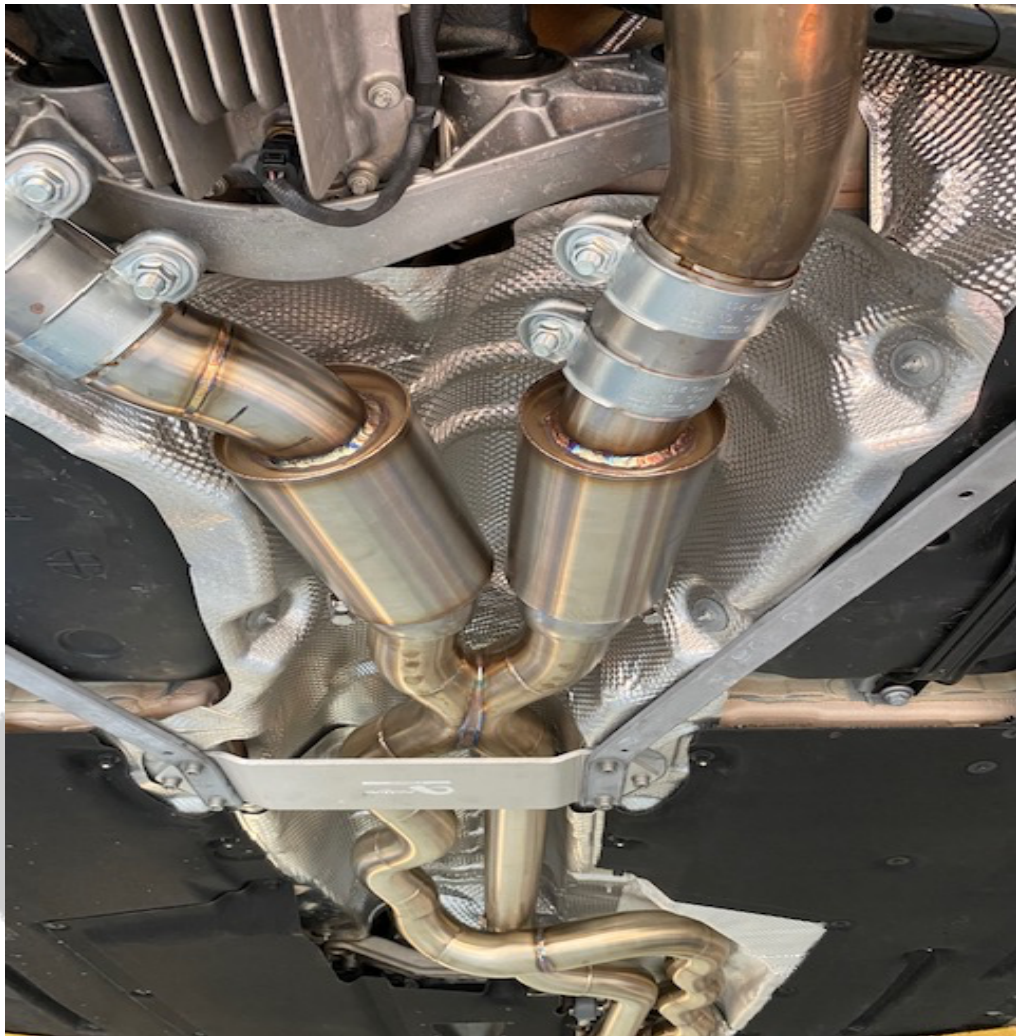






### Step 16 Reinstall Rear Pan and Red Mounts

Reinstall the rear pan and the mounts.



### **Step 17 Install Pipes and Torca Clamps**

Install the pipes (Rear RA and Rear RB) – slide the Torca clamps on first.

**\*\*Note:** Resonator pipes shown in this image (is for illustration purposes). Appearance will differ slightly for Non-Resonated Version.



### **Step 18 Positioning**

The Rear pipes and the exhaust should almost meet – but should still have a small gap as seen in the image above.

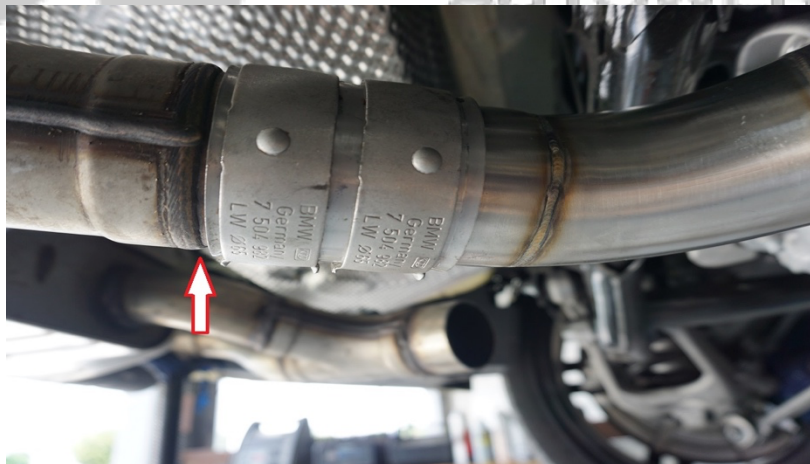
NOTE: Picture for illustration purposes.



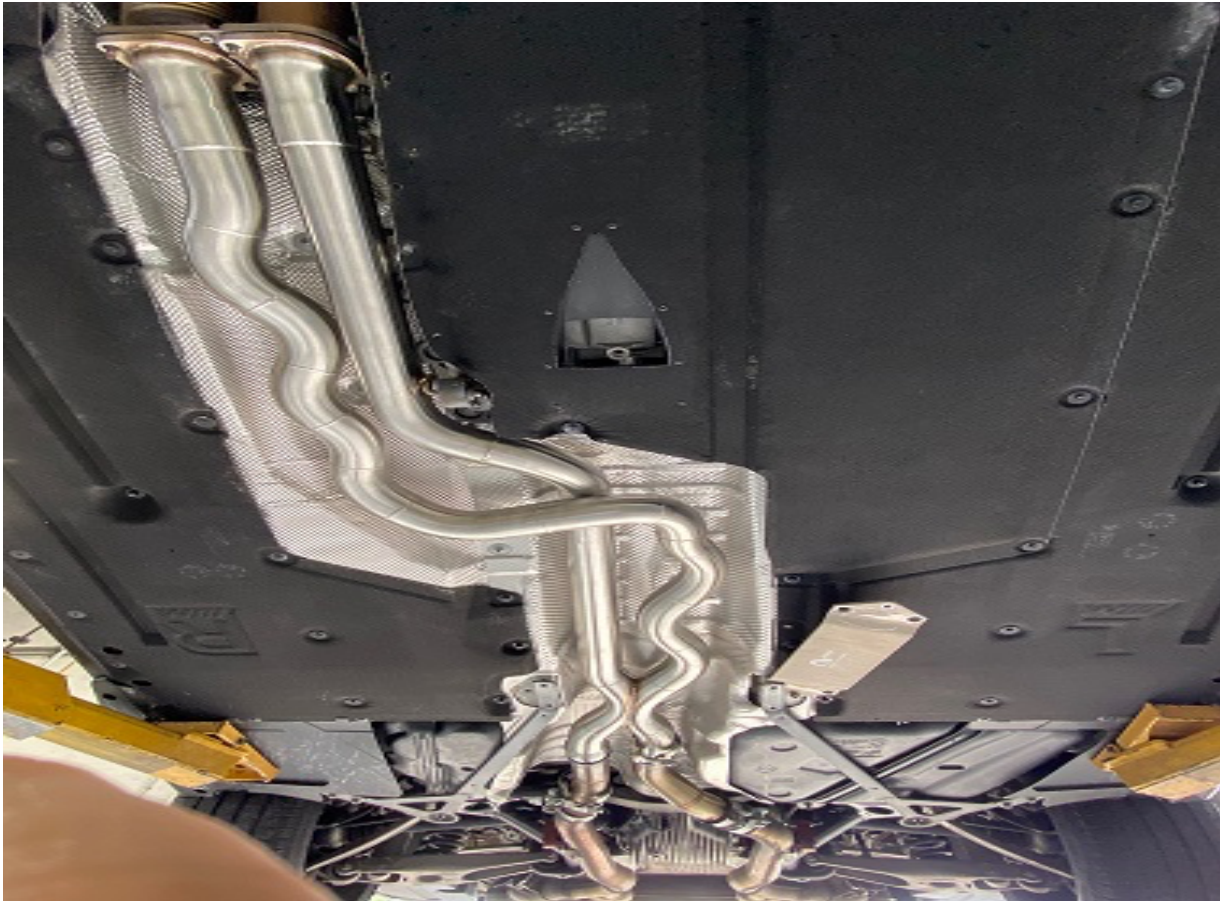


### Step 19 Clamps

Slide on the 65mm clamps. Ensure that the nuts are easily accessible. See image above for example.



Slide both clamps over the exhaust pipes until the clamps are about halfway over both ends of the pipes. Then proceed to tighten all clamps. See image above for example.



### Step 20 Tighten and Secure all nuts and bolts for Mid-Pipe

Ensure that all nuts and bolts for the mid-pipe have been checked and secured tightly.

**\*\*Note:** Non- resonated Pipes are being shown in this image.



### **Step 21 Recheck and Review Work**

Re-Check all clamps and re-tighten all nuts and bolts associated with the installation. Ensure everything is properly secured and tightened. Re-attach all connectors for servo motors.