



Thank you for being selective enough to choose a Dinan Performance Exhaust System. The Dinan Engineering Team has spent many hours developing this product to assure that you will receive increased performance, durability and an aesthetic design that you as a customer will be able to enjoy for many years. Ease of installation and maintenance is important to us and has been highly considered throughout the design process.

Prior to performing the installation, familiarize yourself with these instructions as it should help you with the process. If you feel that you do not have the required skills or tools, please arrange for a qualified repair facility to perform the installation.

If you have any difficulties during the installation, or if these instructions are not clear to you, please call Dinan's Technical Support Staff at (800) 341-5480.

Again, thank you for choosing Dinan. Enjoy.

## Installation Instructions

**D660-0103**

**F95 X5M LCI**

**X-PIPE SYSTEM**

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## PARTS LIST

### D660-0103- Box Contents

<b>Dinan Part Number</b>	<b>Description</b>	<b>QTY</b>
D662-0711	Assy, Left front inlet	1
D662-0712	Assy, Right front inlet	1
D662-0713	Assy, X-Crossover	1
D662-0714	Assy, Right out rear	1
D662-0715	Assy, Left out rear	1
D663-0369	Hardware Kit	1

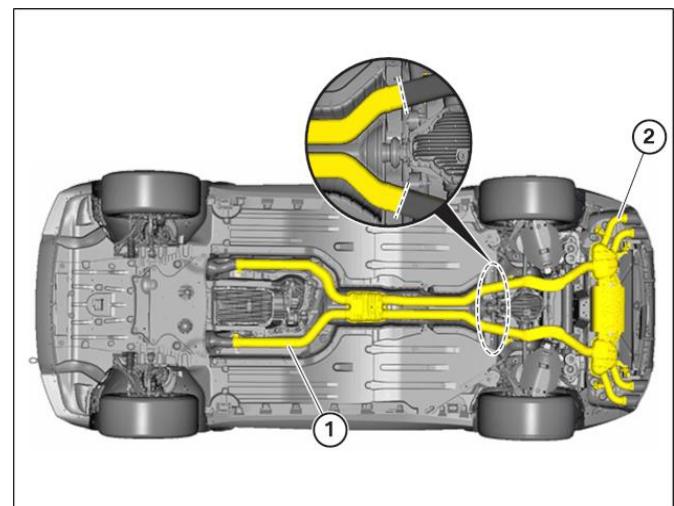
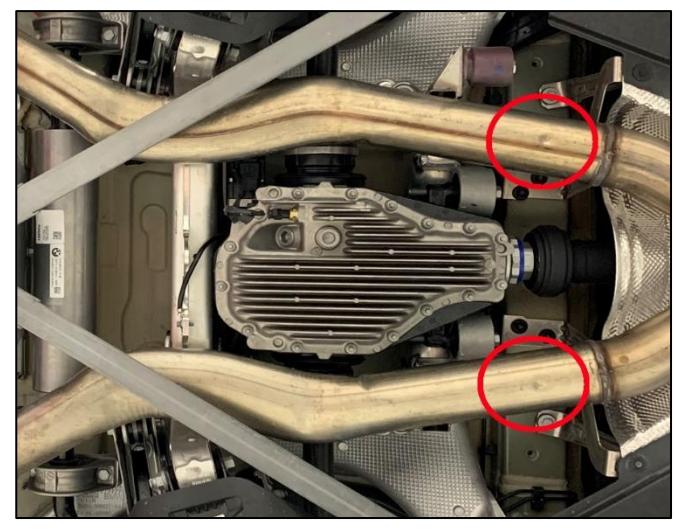
### D663-0369- Hardware Kit Contents

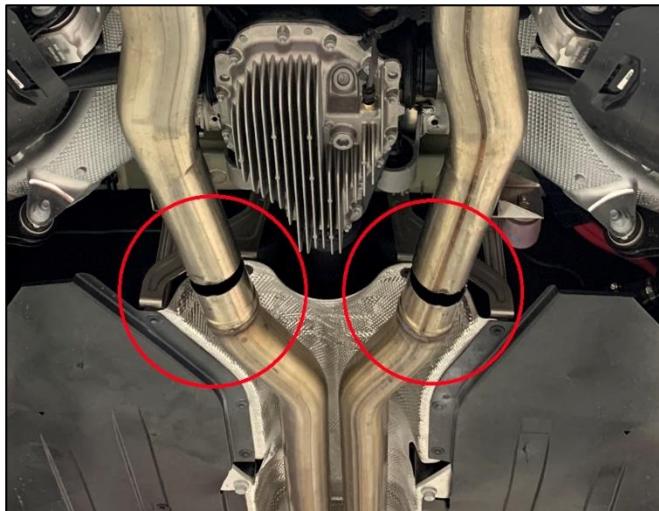
<b>Dinan Part Number</b>	<b>Description</b>	<b>QTY</b>
D662-9245	Double Wide Clamp	2
D662-9248	Single Wide Clamp	4

## TOOLS REQUIRED

- Suitable exhaust pipe cutting tool (reciprocating saw with metal cutting blades or pipe cutter)
- Torque wrench
- 17mm socket

## REMOVAL OF STOCK SYSTEM

	<p><b>STEP 1:</b></p> <ul style="list-style-type: none"> <li>• The following steps include removal of the front silencer (1)</li> <li>• The rear silencer (2) will remain on the vehicle</li> <li>• If both the Dinan Axle back (D660-0090) and Dinan X-Pipe (D660-0103) are to be installed at the same time, the entire system can be removed at once from the front of the vehicle (skip to Step 4).</li> </ul>
	<p><b>STEP 2:</b></p> <ul style="list-style-type: none"> <li>• Locate the cut point on the stock system. This location is shown by red circles. Each tube will have a punch mark</li> <li>• <b>**DEPENDING ON YOUR CUTTING TOOL, IT MAY BE EASIER TO REMOVE THE ENTIRE SYSTEM FROM THE VEHICLE AND THEN CUT**</b></li> </ul>

**STEP 3:**

- Cut through exhaust pipes at marked point with a suitable tool
- Ensure the cuts are perpendicular to the pipes

**STEP 4:**

- Removing the front silencer requires loosening the nuts (1) on at the front of the exhaust system from both pipes, located behind the cats
- If it's super tight, try some WD-40.
- Do not discard the nuts – they will be reused in a subsequent step.

## DINAN X-PIPE INSTALLATION



### STEP 1:

- Carefully remove the factory gaskets and transfer them to the Dinan front pipes as shown in photo.
- Ensure that the gasket is properly seated in the groove.



### STEP 2:

- Position and insert both front pipes with the catalytic converter. Install factory nuts loosely.
- Make sure that the correct pipe is installed on the left and right side.
- Do not tighten the nuts at this point.



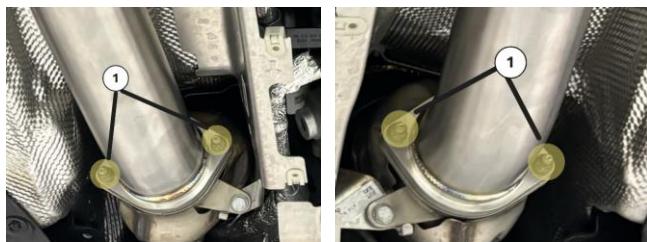
**STEP 3:**

- On the long straight pipes of the Dinan X-pipe assembly, place (2) single wide clamps.
- For easier installation, the bolts should be oriented to the inside.
- Lightly snug the bolts to hold the clamps in position. Do not tighten currently.



**STEP 4:**

- In the orientation shown, slide the X-pipe assembly onto the Dinan pipes at the front of the vehicle
- The system shall bottom out against the Dinan pipes but may need slight adjustment to tie into the remaining system.
- Snug, but do not fully tighten currently.
- Use a jack stand to hold up the rear end at the x-pipe location



**STEP 5:**

- Tighten nuts (1) in stages:
  - Tightening torque 10 Nm (7.4 ft-lbs.).
  - Tightening torque 28 Nm (20.7 ft-lbs.).

**STEP 6:**

- Locate the 2 outlet tubes.
- These look similar but one is longer, as shown
- The longer one will be positioned on the passenger side
- The shorter one will be positioned on the driver's side

**STEP 7:**

- Place (1) single wide clamp on the end of the tube that has the expansion and slots. This shall be done to both tubes
- Slide on both tubes and bottom out into the x-pipe section
- See preferred clamp orientation and snug
- Do not tighten, as adjustment may be needed

**STEP 8:**

- See preferred clamp orientation and snug both pipes
- Do not tighten, as adjustment may be needed



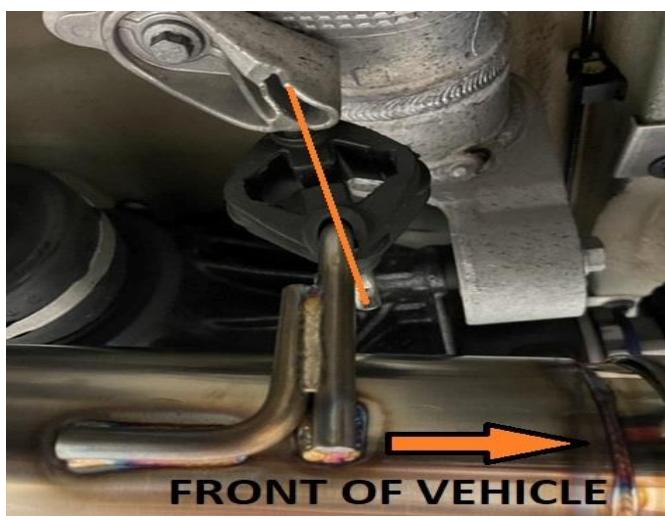
**STEP 9:**

- Slide the double wide clamps onto the 2 pipes
- This is where the axle back system will mate to the x-pipe system



**STEP 10:**

- Slide the double wide clamps over the gap, split the difference between the pipes and snug the clamps
- While pushing up and forward on the x-pipe system, tighten the (4) single clamp nuts to 55Nm (40 ft-lbs.)
- While pushing up on the x-pipe system, as well as pushing the axle back system towards the front of the vehicle, tighten the double clamp nuts to 45Nm (33 ft-lbs.)



**STEP 11:**

- Due to the enormous size of this system, adjustment in the pipes, both rotation and depth, may be needed to properly seat the exhaust system to your liking.
- Ensure hangers throughout the system are angled towards the front of the vehicle
- If installing the DINAN axle back exhaust system, refer to these installation instructions also.

**STEP 12:**

- ENSURE PROPER POSITION OF EXHAUST TIPS
- ENSURE ALL PIPES HAVE CLEARANCE
- ENSURE MOTORS ARE PLUGGED INTO WIRE HARNESS

ADJUSTMENT MAY BE NEEDED ON TIPS AND SYSTEM IF DESIRED PLACEMENT IS NOT TO YOUR LIKING.

**ENJOY!**