



Free Flow Exhaust Installation Instructions

**PART NUMBER
D660-0072**

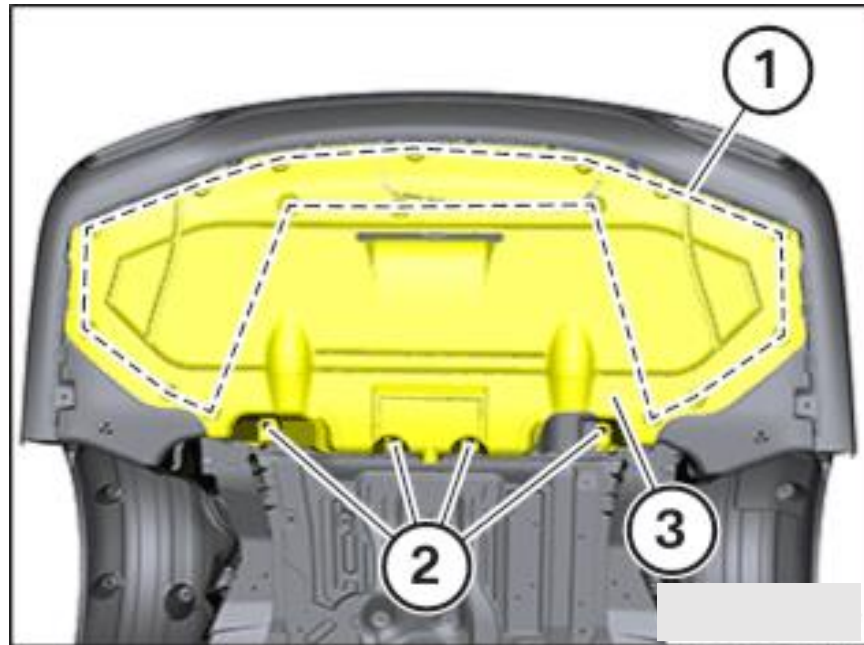
APPLICATION: 2016-18 G11 750i xDrive
 2016-18 G12 750i & xDrive

Thank you for purchasing a Dinan High Performance Muffler! Some mechanical skill is required to install this muffler. If you are not familiar with this procedure, we strongly recommend that you arrange for a qualified BMW repair facility to perform this installation.

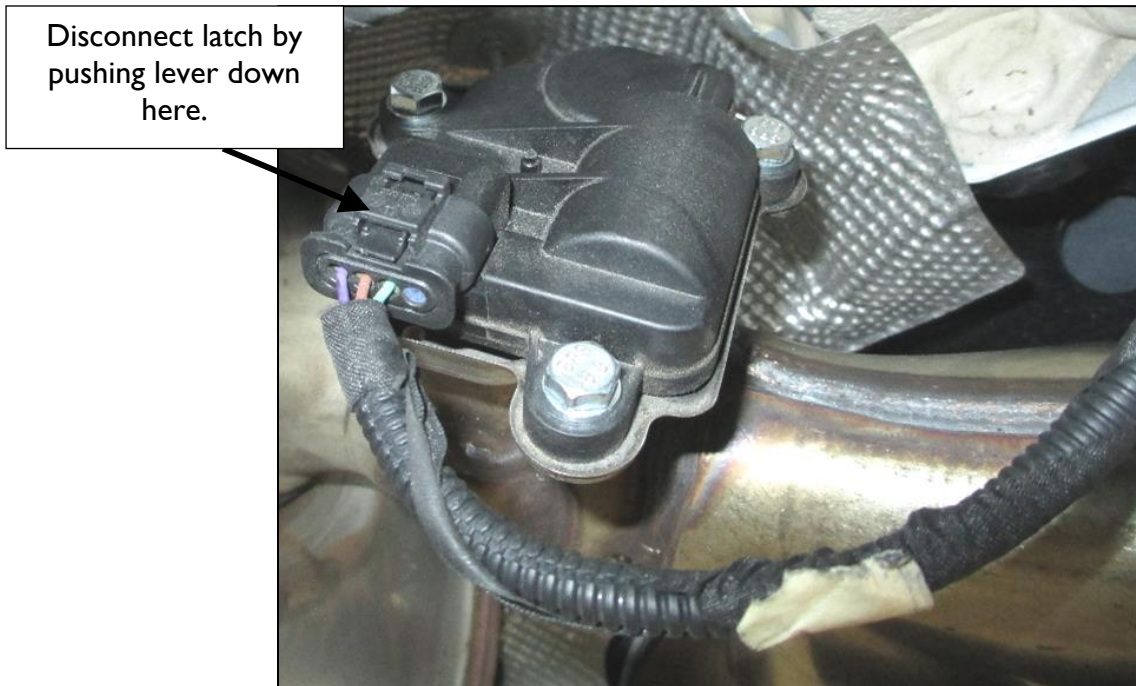
INSTALLATION:



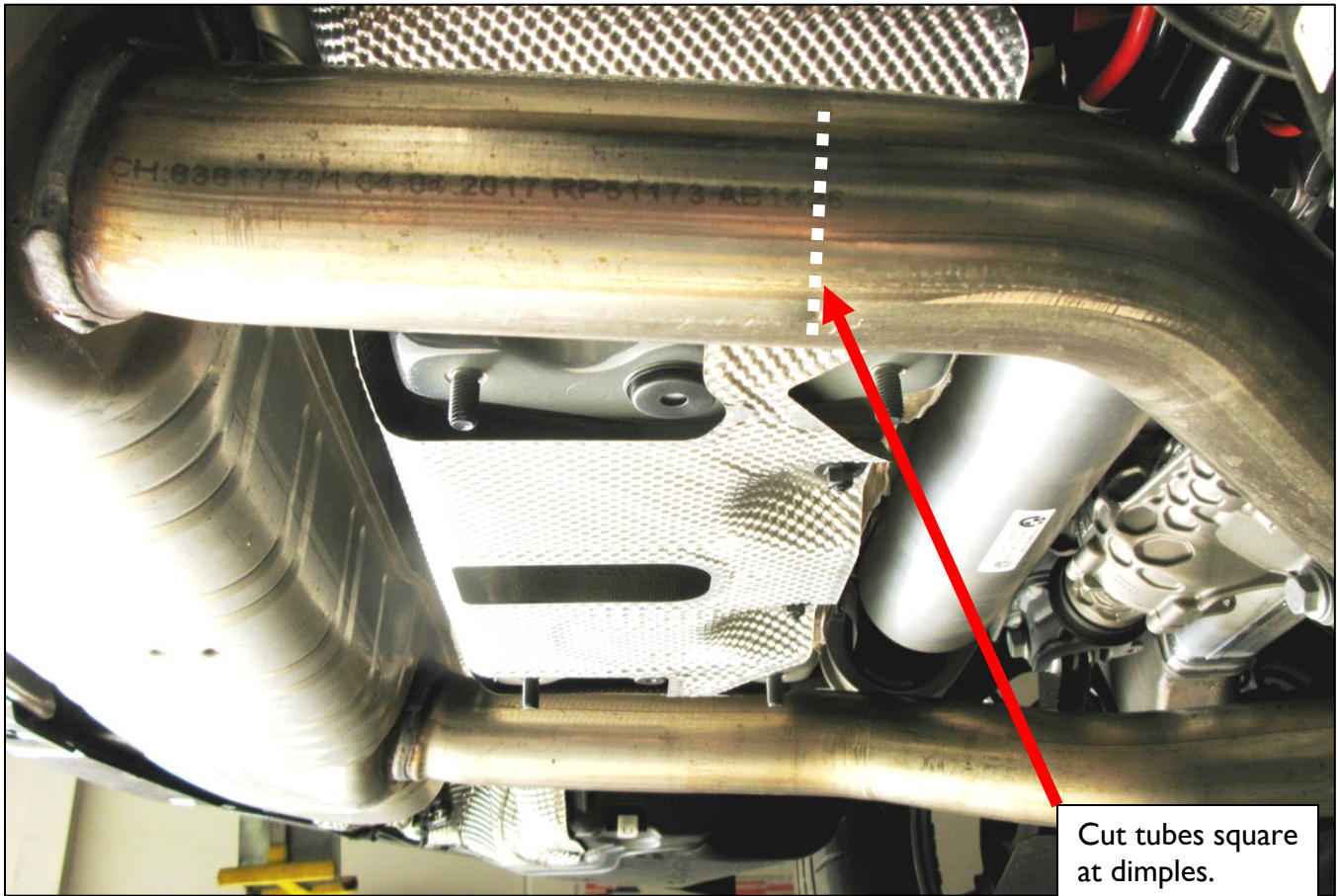
1. Disconnect the battery using BMW factory procedures (make sure the car is asleep).
2. Remove the rear diffuser cover. Remove the screws along the dotted line marked (1). Remove the nuts marked (2) and remove the diffuser marked (3). See figure below.



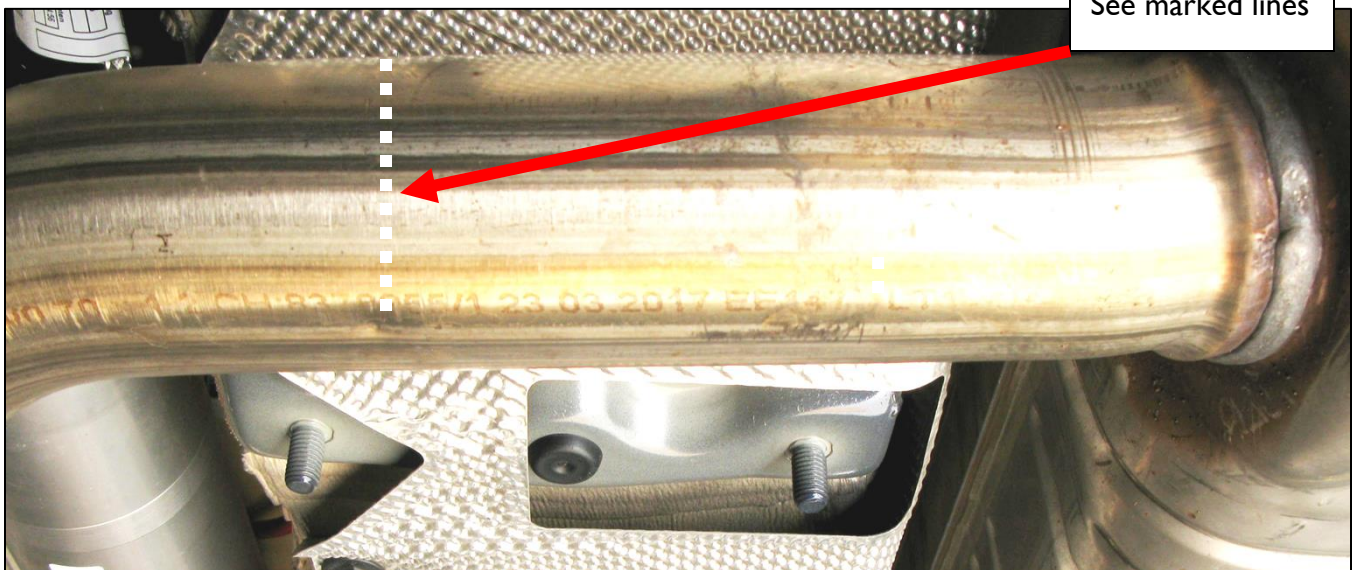
3. Disconnect wires from both valve actuators. See figure below.



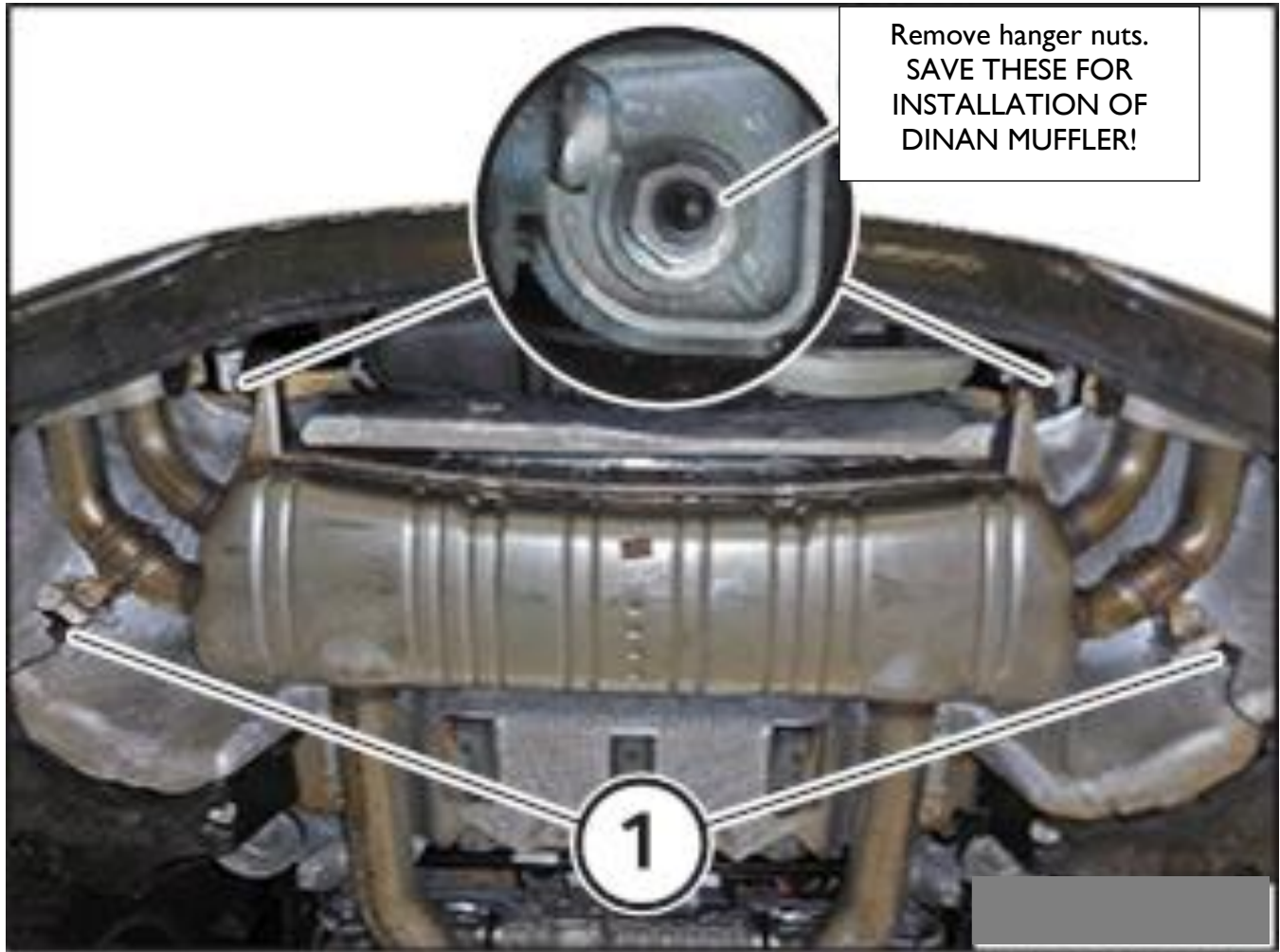
4. Support the muffler securely with a jack or a stand, then cut the stock muffler at the BMW cut dimple location as shown in the figures below. Before cutting the stock muffler, hold DINAN muffler underneath stock muffler to verify the stock pipe will not be cut too short!



Cut tubes square at dimples.
See marked lines

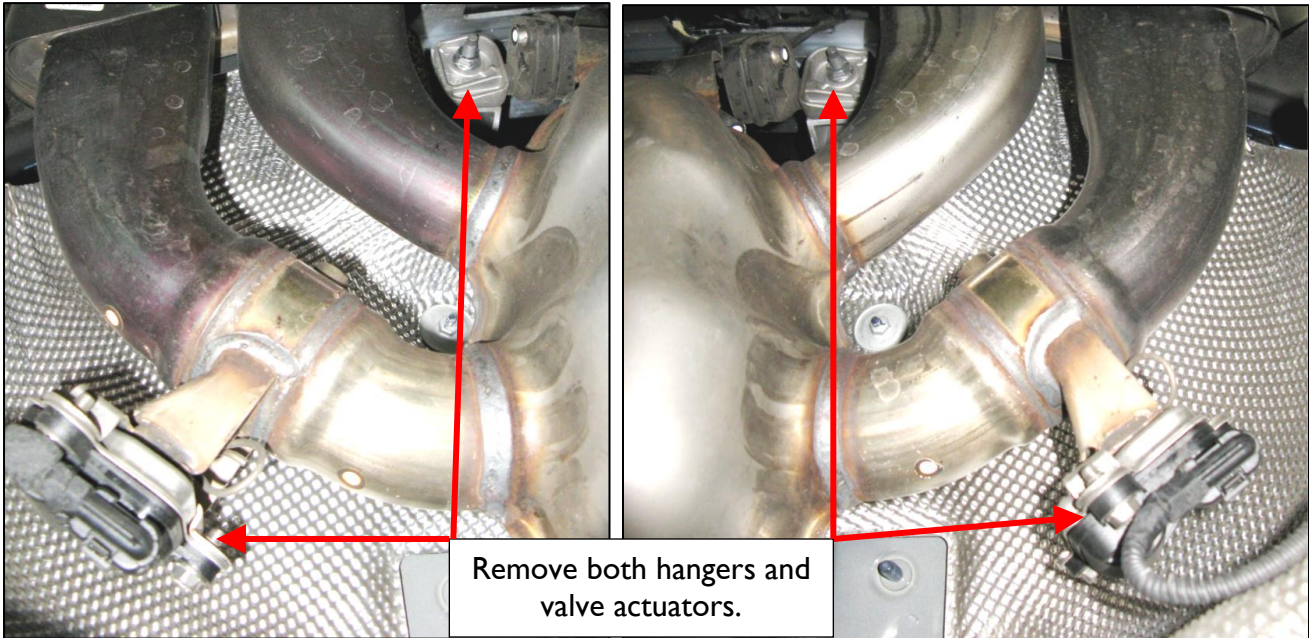


5. With the stock muffler fully secure and supported on a jack or stand, remove the hanger nuts as shown (SAVE THESE NUTS FOR INSTALLATION OF DINAN MUFFLER!), then remove stock muffler. Be sure exhaust valve actuators (1) are disconnected before finally removing the muffler.

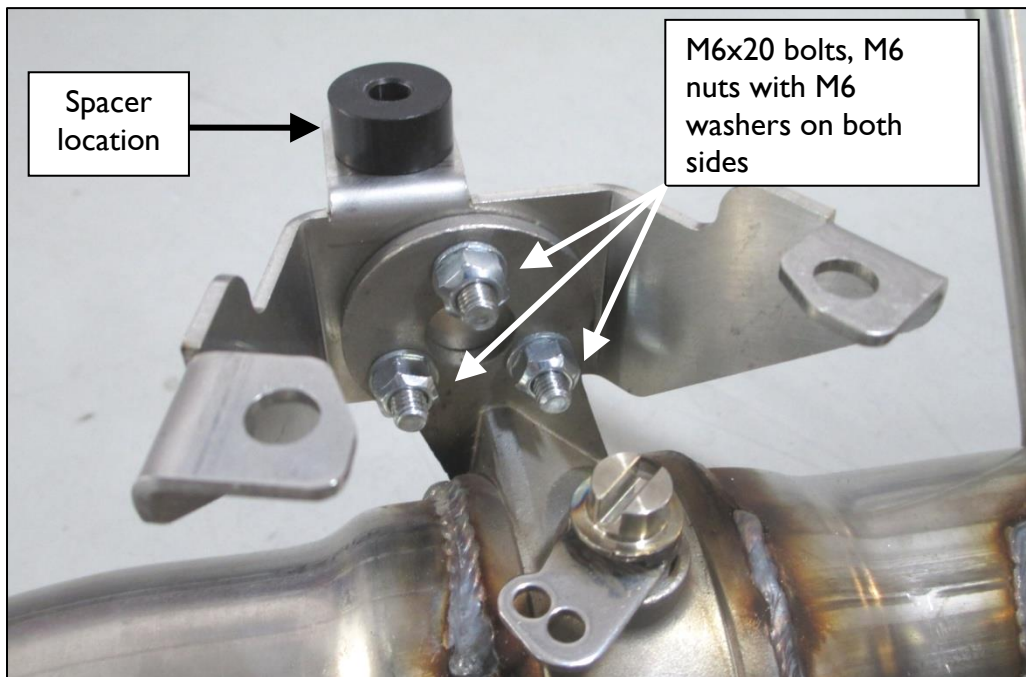


6. When removing the muffler you need to let it down at the cut joint first and then guide the tips and hangers out.

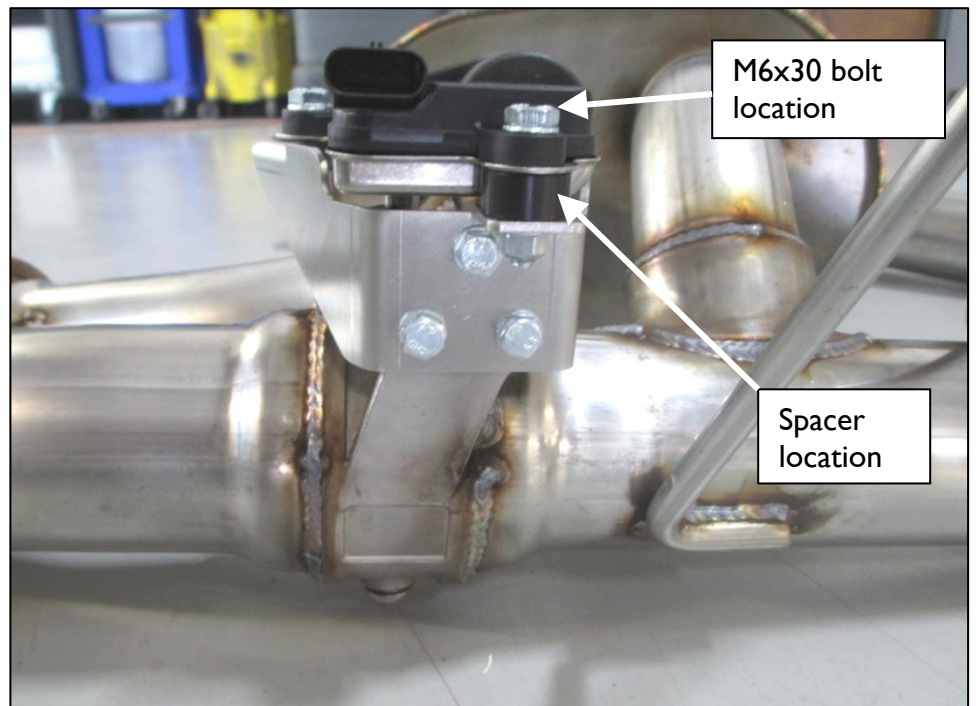
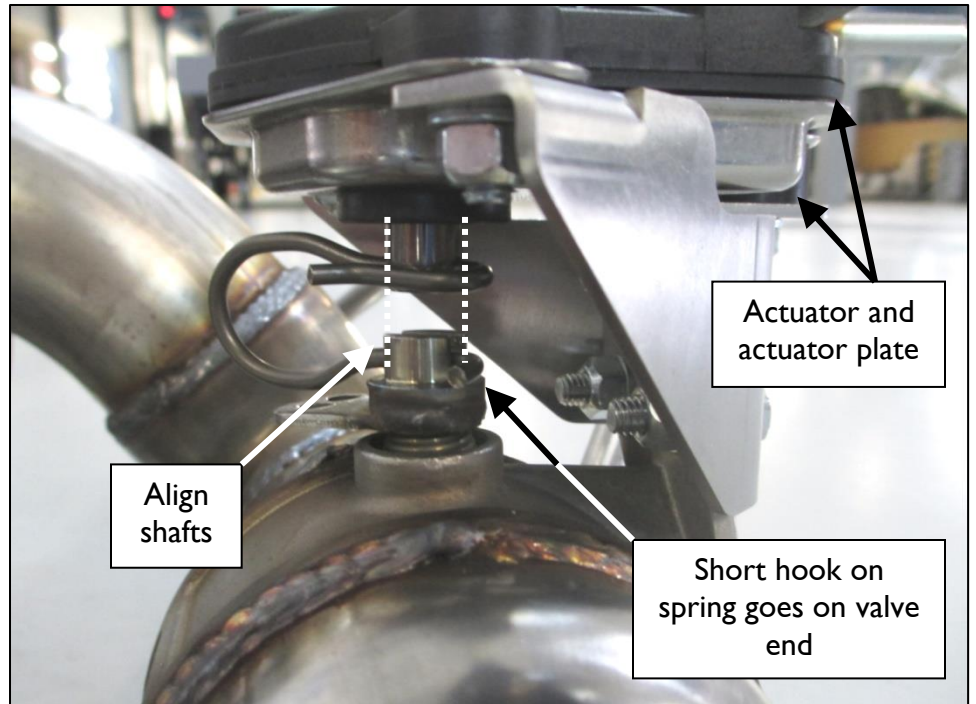
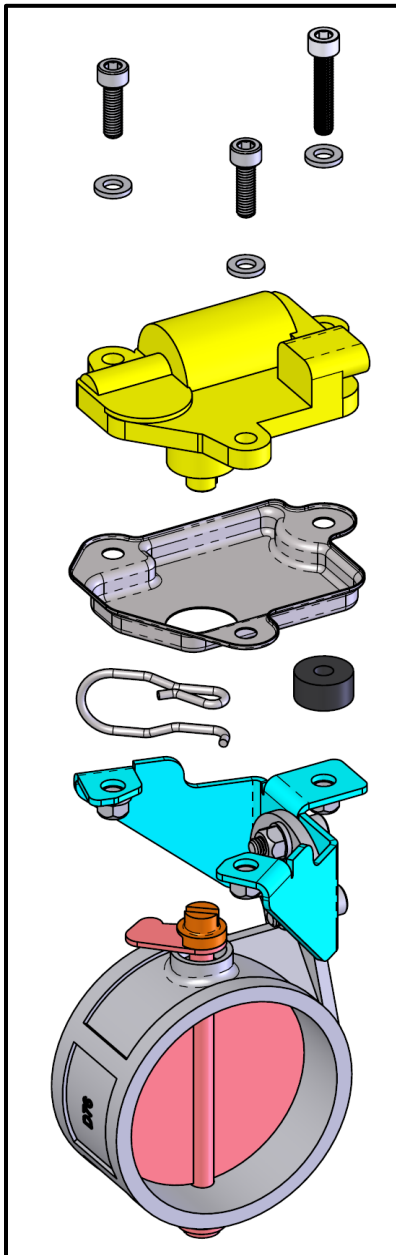
7. Remove both hangers and valve actuators from stock muffler. **SAVE THESE PARTS FOR INSTALLATION ON DINAN MUFFLER.**



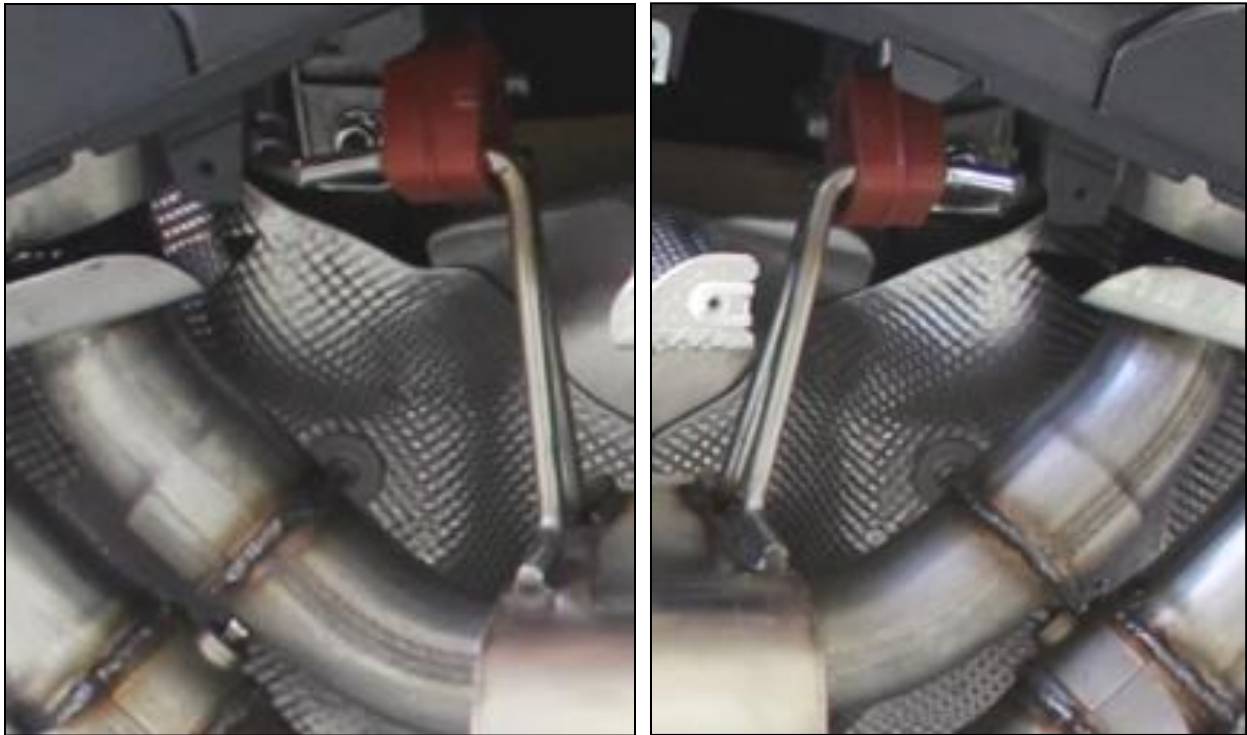
8. Install the valve actuator mounting brackets provided in the hardware kit as shown below. You will need (3) M6x20 bolts, (3) M6 locknuts, and (6) M6 washers from the hardware kit provided to install each mounting bracket. Notice the location of the spacer for mounting the actuator in the next step. Make sure all hardware is tight.



9. Install stock actuators onto DINAN muffler. You will need (2) M6x20 bolts, (1) M6x30 bolt, (3) M6 locknuts, (6) M6 washers, and (1) spacer from the hardware kit provided for each actuator. Refer to picture below for the correct orientation of spring. While holding the spring in the slot on the valve, place the actuator (with actuator plate) onto spring. Mount the actuator to the mounting bracket using the provided hardware. Before you fully tighten bolts make sure shafts are aligned (see photo). If the stock actuator shaft slot is in a different rotation than pictured below, simply turn the valve shaft slot on the muffler to line them up. Make sure all hardware is tight. **THE SPRING MUST BE SECURELY SEATED IN BOTH THE SLOT IN THE VALVE AND THE SLOT IN THE ACTUATOR!**

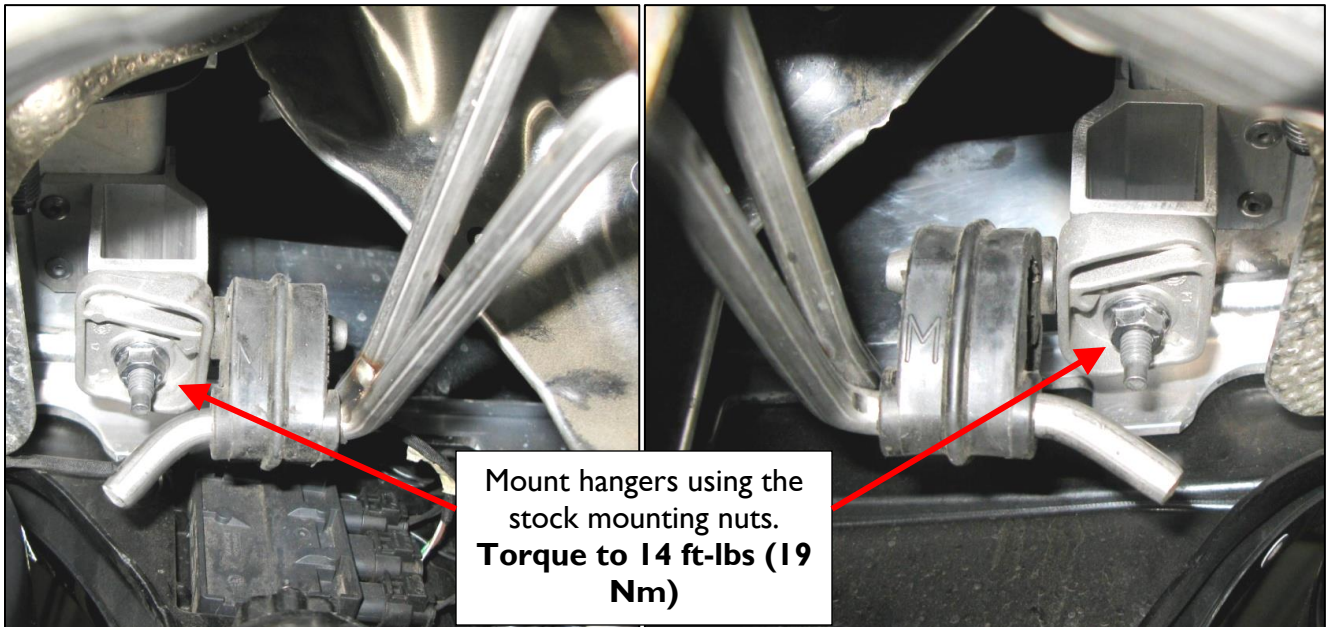
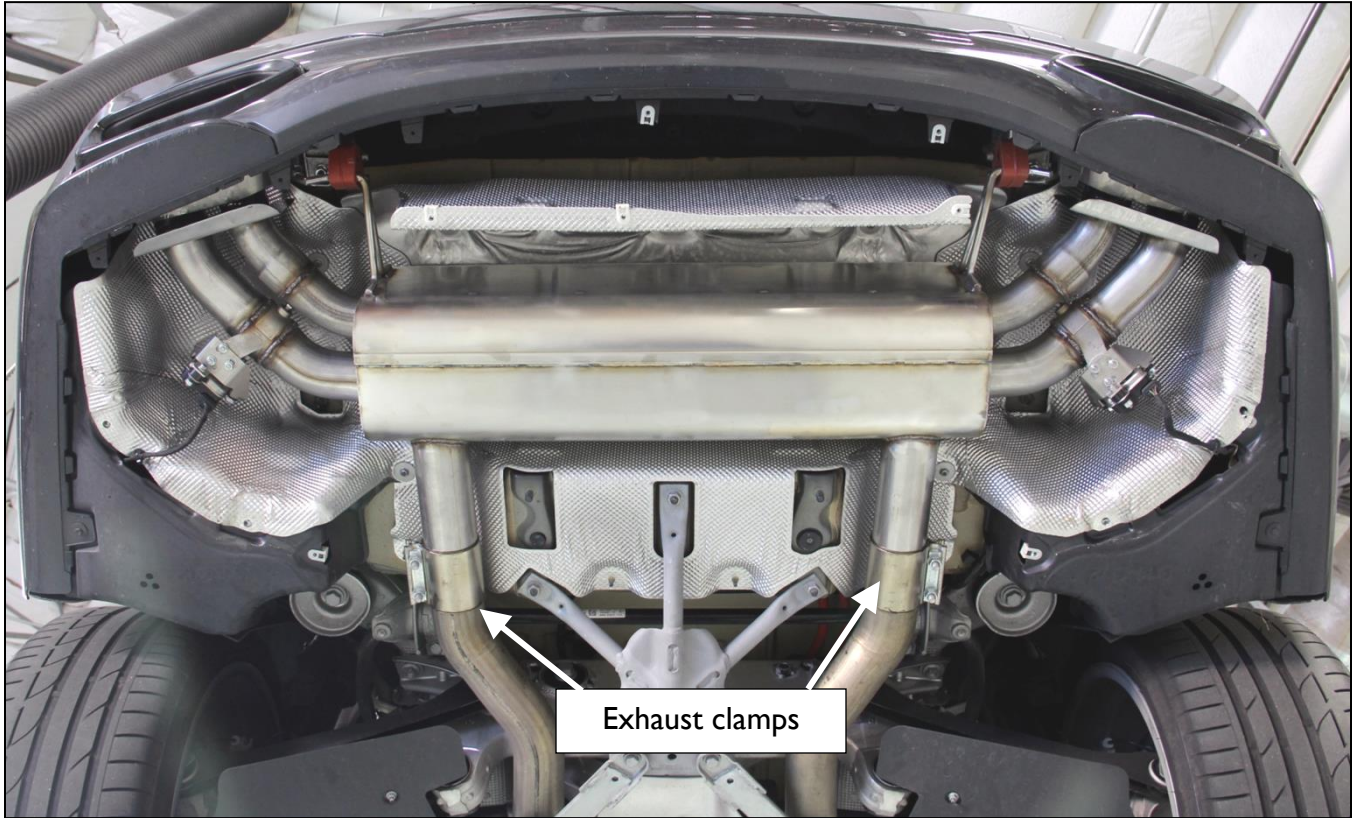


10. Install both stock hangers onto DINAN muffler as shown below.

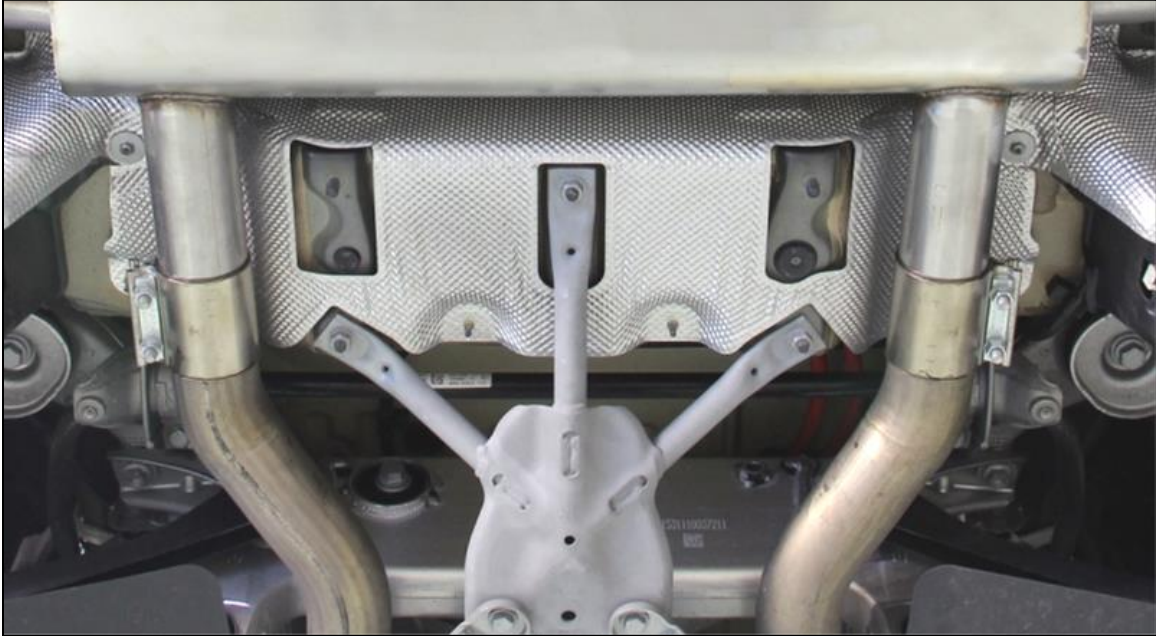


11. Place exhaust clamps provided in the hardware kit onto the inlet ends of the muffler. With DINAN exhaust secured on a jack or stand, rotate the muffler into place by positioning the outlet tubes into the tips attached to the bumper, then rotate the muffler inlet tubes up to mate to the stock tubes. Slide the clamps over the tubes and push the muffler forward against the ends of the stock pipes.

12. Mount both muffler hangers using the stock mounting nuts that were saved from removal of the stock muffler. Torque the nuts to **14 ft-lbs (19 Nm)**.



13. With exhaust clamp rotated as shown, torque clamps.
- Torque clamps with 10mm bolts to 45 Nm (33 ft-lbs)



14. Connect valve actuators as shown below.



15. Check the exhaust tips for proper bumper clearance and proper alignment.

Enjoy your new DINAN exhaust!

PARTS LIST

<u>Qty</u>	<u>Part No.</u>	<u>Description</u>
1	D663-0322	Muffler Assembly G12
1	D663-0323	Hardware Kit
	Contains:	
2	18 30 7 620 323	Fixing Bow
2	D662-0336	Valve Mount
2	D662-9241	2.75" Torca Coupler
2	D671-0108	Spacer
12	D671-0189	M6 Locknut
10	D671-0193	M6 x 20 Socket Head
2	D671-0194	M6 x 30 Socket Head
24		M6 Flat Washer