



## Free Flow Exhaust Installation Instructions

**PART NUMBER D660-3950**

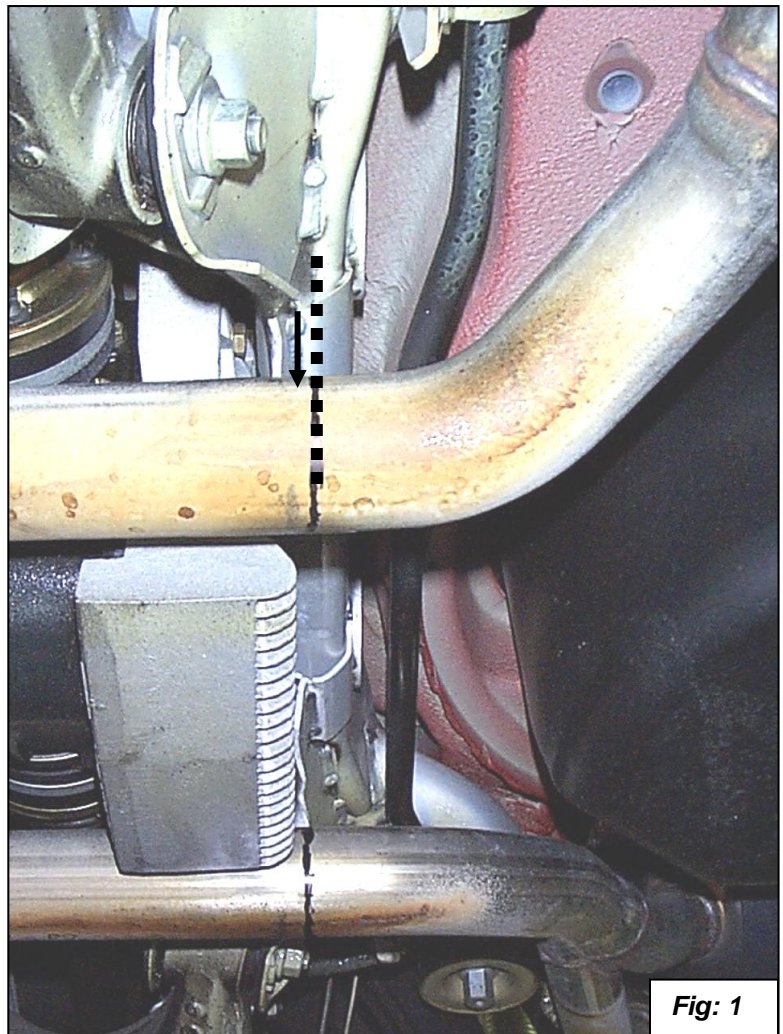
APPLICATION: 2000-03 M5

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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:**

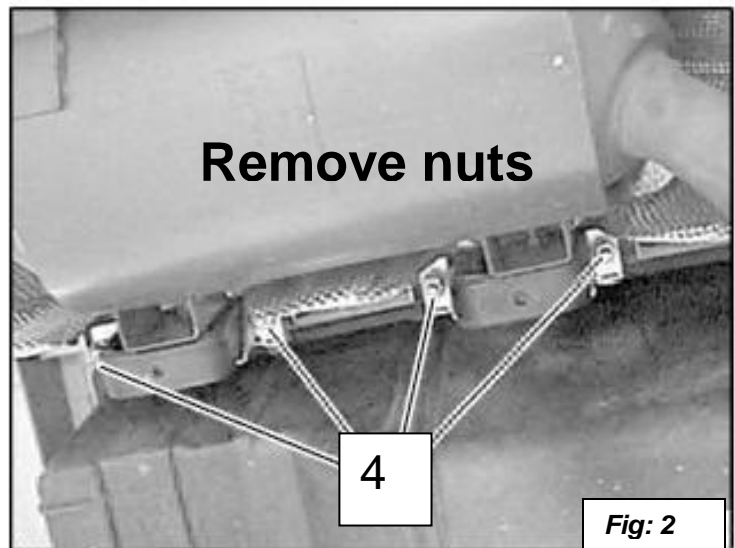
1. **Mark** the pipes just behind the differential, clear of the suspension as shown in figure 1. Hold the new muffler up under the old one, line up to the hangers and double check that you will have enough overlap to seal well (2.0" – 2.5"). Adjust cut line if needed. Cut the pipe at this point. Repeat for other side.



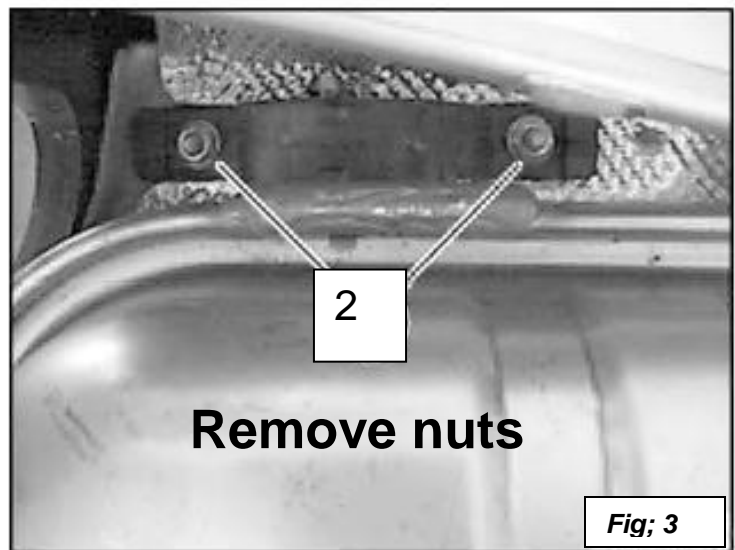
**Fig: 1**

2. Remove the rear mufflers by unbolting the nuts holding the mounts to the body.

4 on the inside of each muffler

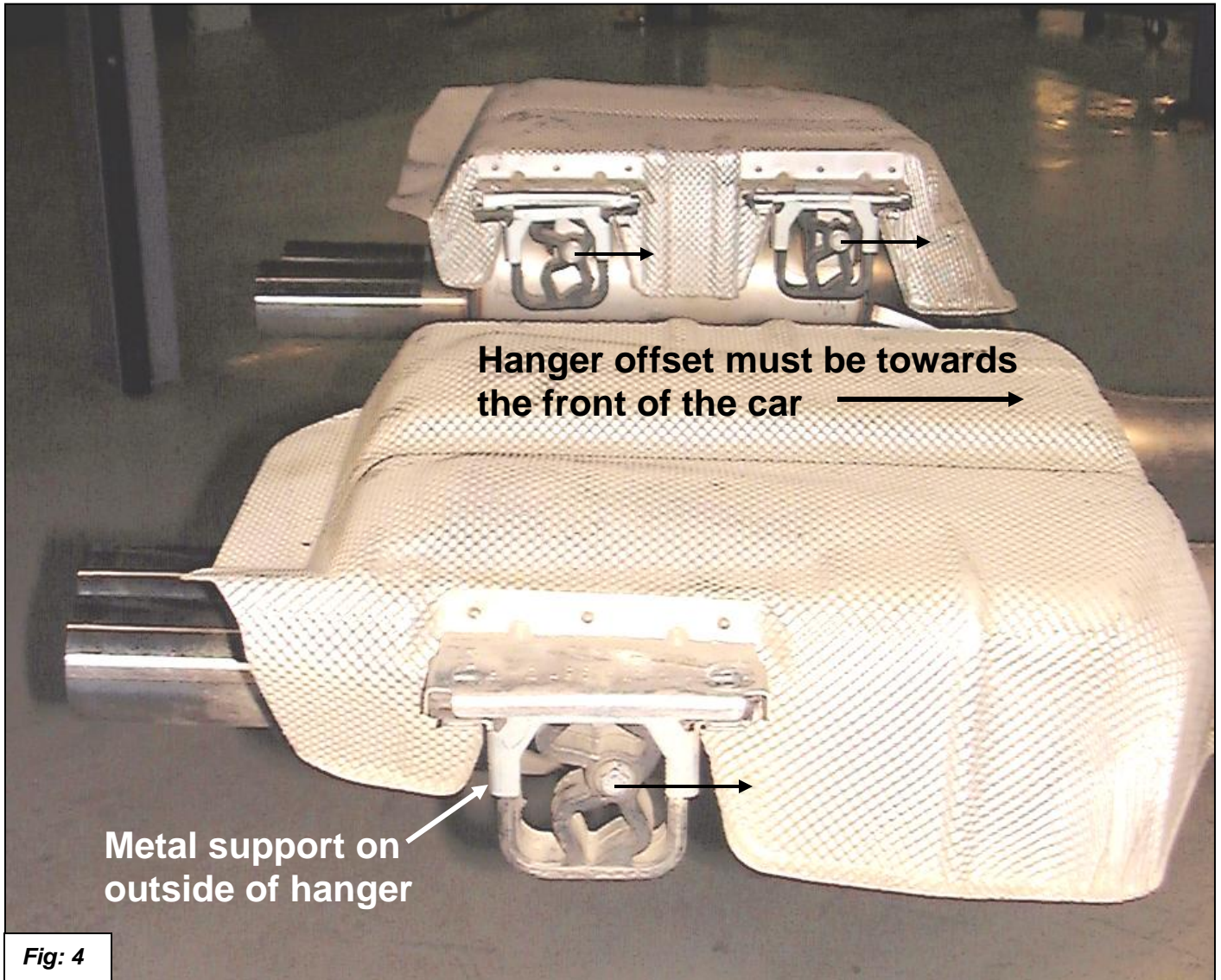


2 on the outside of each muffler



3. Remove each muffler with the heat shield attached. You may have to drop down the outer hanger first and pull out the bumper slightly to clear the hanger.
4. Deburr the inside of the stock exhaust on the car and clean the outside surface to ensure a good seal.

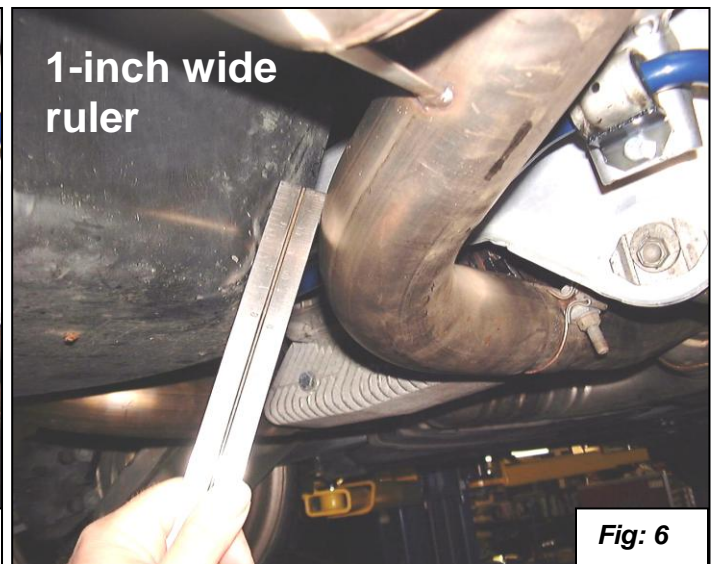
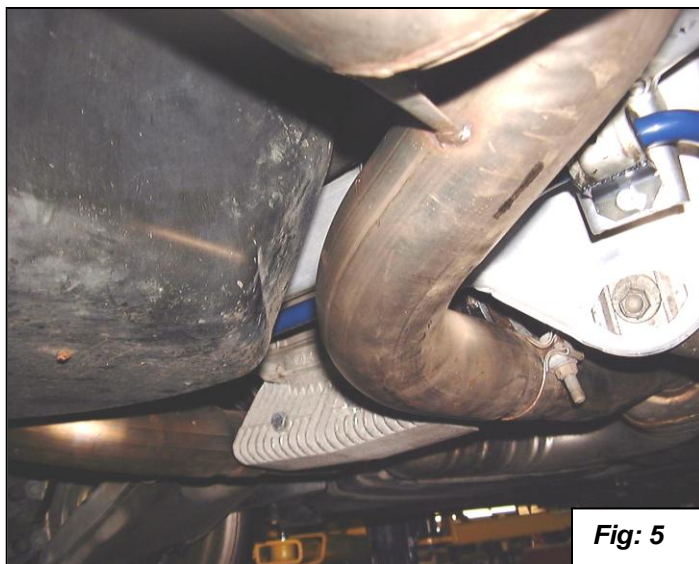
5. Remove the hangers and heat shields from the old mufflers. Keep the hangers attached to the heat shields. The hangers must be installed on the new mufflers in the same location as on the stock mufflers. The bolt hole location on the hangers in the relaxed position is offset to one side. The hanger must be offset to the front of the car so when the exhaust system heats up and expands they will go to the center of the hanger. The metal support must be on the outside of the hanger. See figure 4.



**Fig: 4**

6. Insert the original mounting bolts into the hangers and carefully install both heat shields (with the two inner hangers and one outer hanger on each side). Use the stock nuts you removed in step 2 to fasten to the car. You need to make sure the bolts don't fall out when you install the hanger-shield assembly. Note: the inner bolts can't be installed after the mounts are in place.

7. Slide the Dinan muffler over the stock tube and rotate it into position.
8. Install the muffler by reattaching the outer hangers first. Slide the bolt into the hanger and attach with the supplied copper lock nut. Just snug up the nut for now, don't fully tighten yet.
9. Slide the bolts in the inner hangers into the mufflers and attach with the supplied copper lock nuts. It helps to use the box end of the wrench to hold the nut in place as you turn the bolt into the nut.
10. Visually inspect the muffler. Check for sufficient clearance in all areas. You will need to pry the heat shield away from the inlet pipes. Make sure the polished tips are centered in the rear valance openings. The Dinan muffler brackets are slotted to allow some adjustment. Tighten the copper lock nuts when you have the tips centered in the openings.
11. On the passenger side muffler the inlet pipe runs close to the multifunction pan hanging down from the trunk. You must have one inch of clearance between the wall of the multifunction pan and the inlet pipe. See figures 5 and 6. Note: if needed it helps if you pry the muffler forward while aligning the tips and tighten the muffler clamp. It sounds harder to do than it is.



Tighten the clamp to specified torque:

If the clamps have 8mm bolts: tighten to 22 ft-lbs.

If the clamps have 10mm bolts: tighten to 40 ft-lbs.

Happy Motoring!