



Free Flow Exhaust Installation Instructions

PART NUMBER: D660-0011 (polished tips; E92/E93 w/ standard bumper)
D660-0011-BLK (black tips; E92/E93 w/ standard bumper)
D660-0012 (polished tips; E90 w/ standard bumper)
D660-0012-BLK (black tips; E90 w/ standard bumper)
D660-0041 (polished tips; E90 w/ M-Technic bumper)
D660-0041-BLK (black tips; E90 w/ M-Technic bumper)

APPLICATION: 2007-10 335i/xi (E90/E92/E93 w/ N54 engine)
2011-13 335is (E92/E93 w/ N54 engine)
2011-13 335i (E90/E92/E93 w/ N55 engine)

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.

Read this before cutting off stock mufflers!

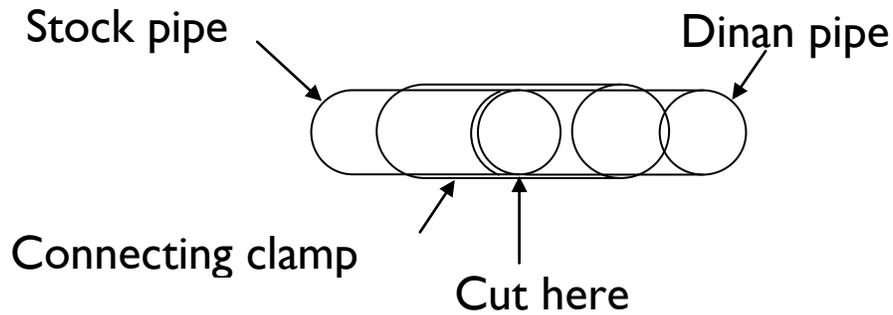
There is a difference between the 2-door vs. 4-door vs. M-Technic bumper 335i exhausts. The length between the rear hanger and the end of the tip is different. Measure the distance as shown below to determine if you have the correct mufflers before cutting off the stock mufflers. If the tip position does not measure correctly for the car you are installing on, exchange them with the correct mufflers.

- About 6-1/2" -- fits E90 with standard rear bumper (D660-0012)
- About 7" -- fits E90 with M-Technic rear bumper (D660-0041)
- About 7-3/8" -- fits E92 with standard rear bumper (D660-0011)

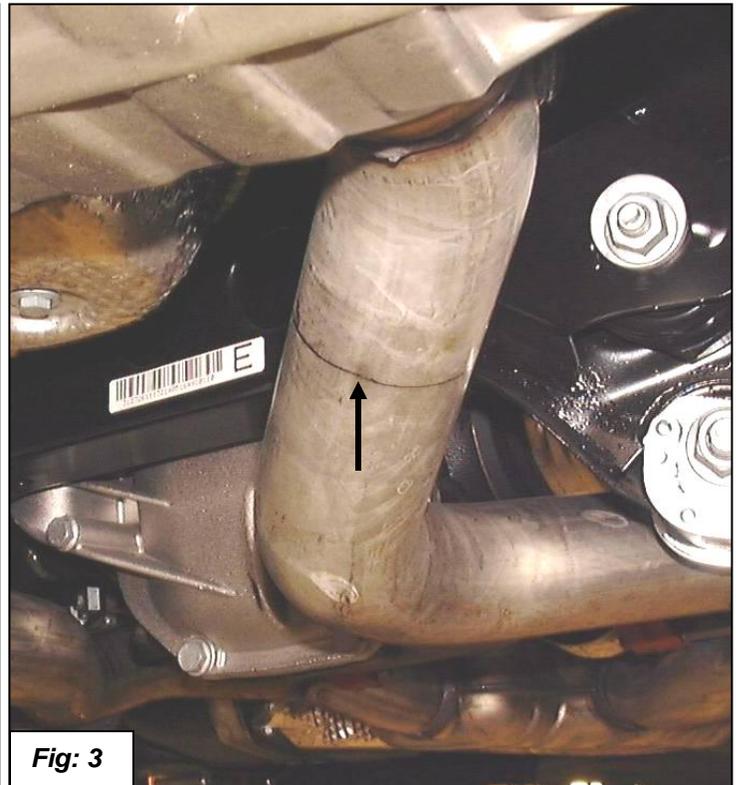


INSTALLATION:

1. Hold the new Dinan muffler assembly up under the stock muffler. Line up the exhaust tip on the new muffler with the exhaust tip on the stock muffler. The new Dinan Muffler Pipes are a butt fit to the stock pipes with a connecting clamp covering both. Mark the pipes at this point and check to see if they line up with the dimple mark or notch that the factory puts on the pipes. The Dinan mufflers are designed to install in the same place as the stock replacement mufflers.

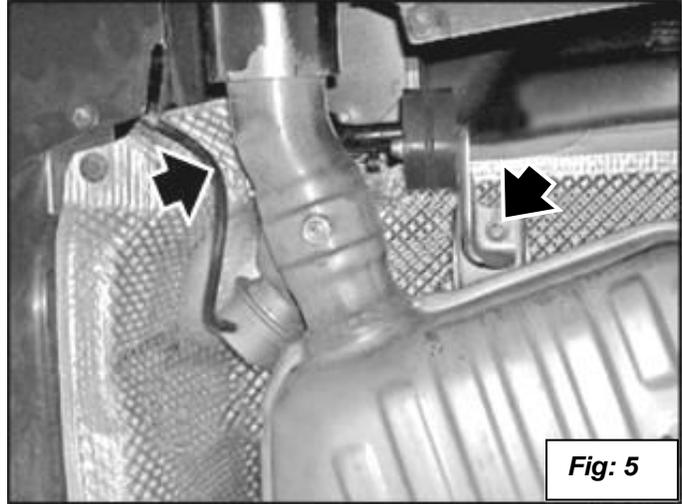
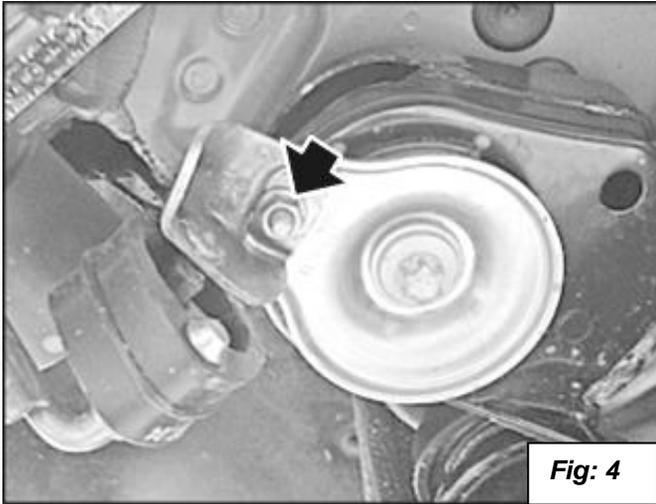


2. Check to see if your marks are close to the dimple or notch marks from the factory. See figures 2 and 3. If they are way off call Dinan tech support for direction.



Cut: When you are confident you will have enough overlap with the BMW connecting clamps, cut the pipes (be careful not to cut into any surrounding parts).

3. Disconnect the vacuum hose from the actuator on the muffler as shown in figure 5.
4. Remove the mufflers as a single assembly. Remove the stock mufflers by unbolting the rubber hanger mounts from the car. There is one at the front of each muffler, and one at the rear of each muffler. See figures 4 and 5.



5. Deburr the inside of the stock exhaust on the car and clean the outside surface to ensure a good seal.
6. Remove the front rubber hangers with mount from the stock mufflers by pulling them off the wire hangers on the muffler.
7. Remove the rear hangers with mount from the car. Remove the hangers from the mounts.



8. Install the hangers, mounts and clamps onto the Dinan mufflers as shown in figures 6 and 7. Secure the hangers to the rods with a cotter pin on each side of the hanger.



9. Install each muffler by sliding the clamps over the ends of the pipes. Attach the hangers to the car with the stock bolt and nut in the front and push the hanger over the stock rod in the rear as shown in figures 8 and 9.

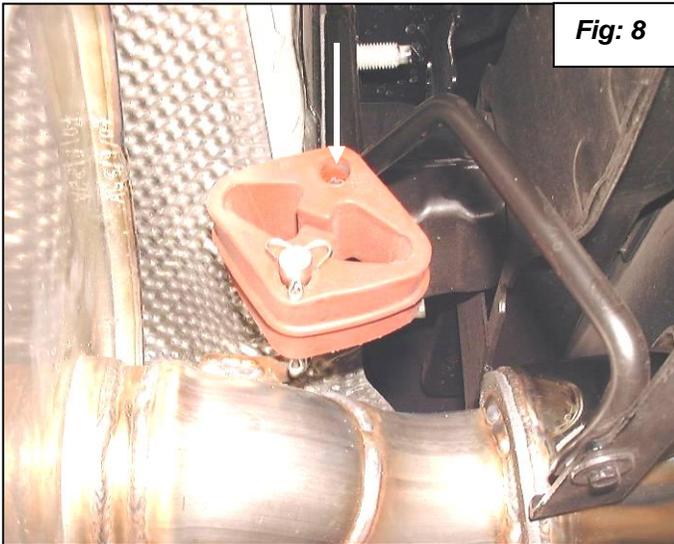


Fig: 8

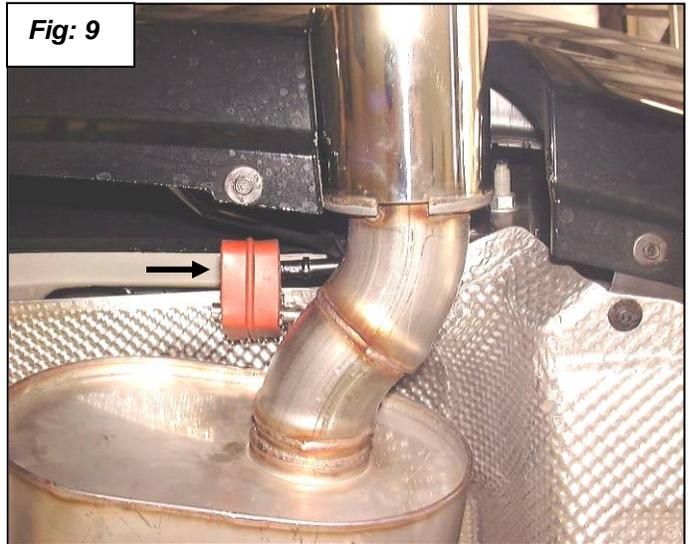


Fig: 9

Adjust the muffler for best fit centering the exhaust tip in the bumper cut out. The rubber hangers should be angled forward as shown in figure 10. When the exhaust gets hot it grows in length and the hangers will hang straight.

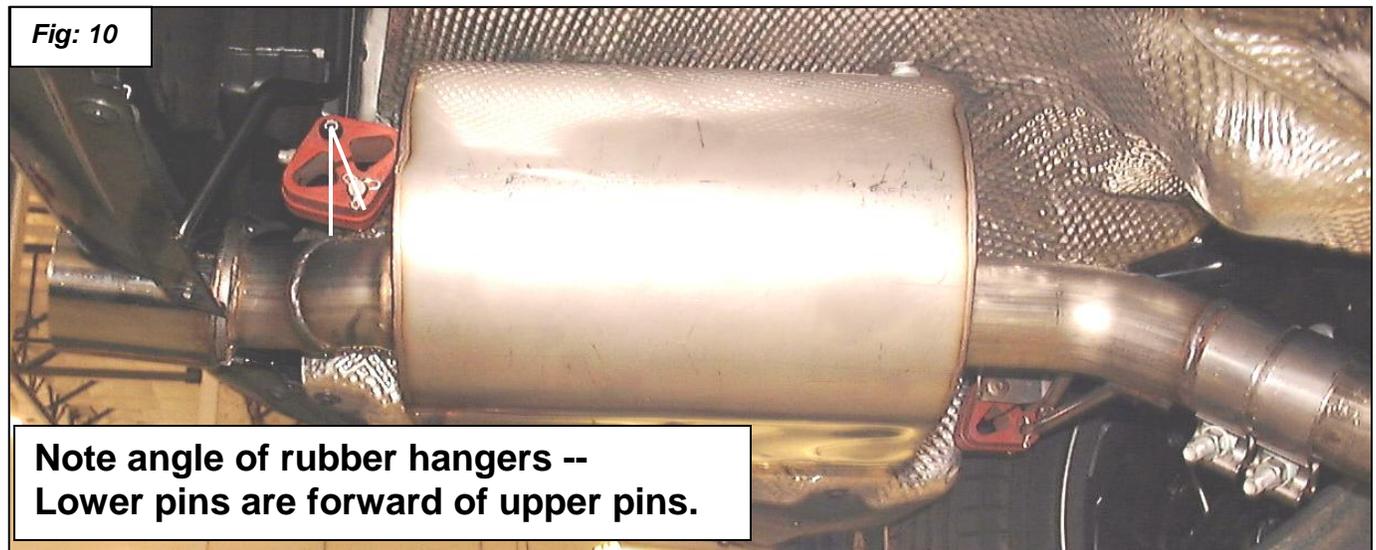
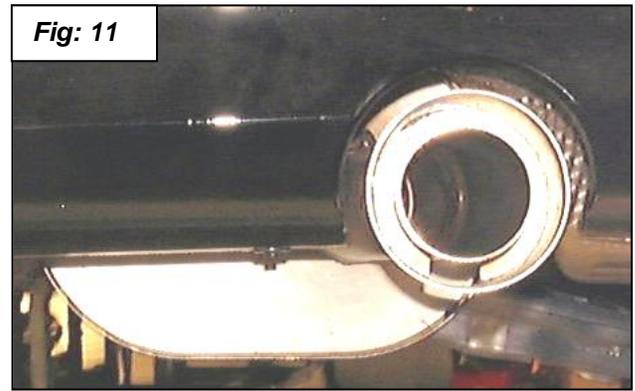


Fig: 10

**Note angle of rubber hangers --
Lower pins are forward of upper pins.**

10. Visually inspect the muffler. Check for at least $\frac{1}{2}$ " clearance in all areas. Make sure the polished tips are centered in the bumper cutouts. See figure 11.



11. Tighten the clamp bolts as you make sure the tips stay centered. Torque as follows:
- Clamps with 10mm bolts = 45Nm (33 ft-lbs)
 - Clamps with 8mm bolts = 33Nm (24 ft-lbs)
12. Double-check your clearance and adjust muffler position as needed. Remember that the exhaust grows in length as it gets hot.
13. Plug the vacuum line with the supplied plug and wire tie out of the way.

Happy Motoring!