



COLD AIR INTAKE

INSTALLATION INSTRUCTIONS

D760-0013

Fits: 2006-10 650i (4.8L)

PARTS LIST

Air Box Assembly
Support bracket

Left tube
AFM housing

Center tube
AFM/TB tube

Right tube
Hardware Kit



Congratulations for being selective enough to use a Dinan Engineering Cold Air Intake. We have spent many hours developing this system to assure that you will receive maximum performance and durability with minimum difficulty in installation.

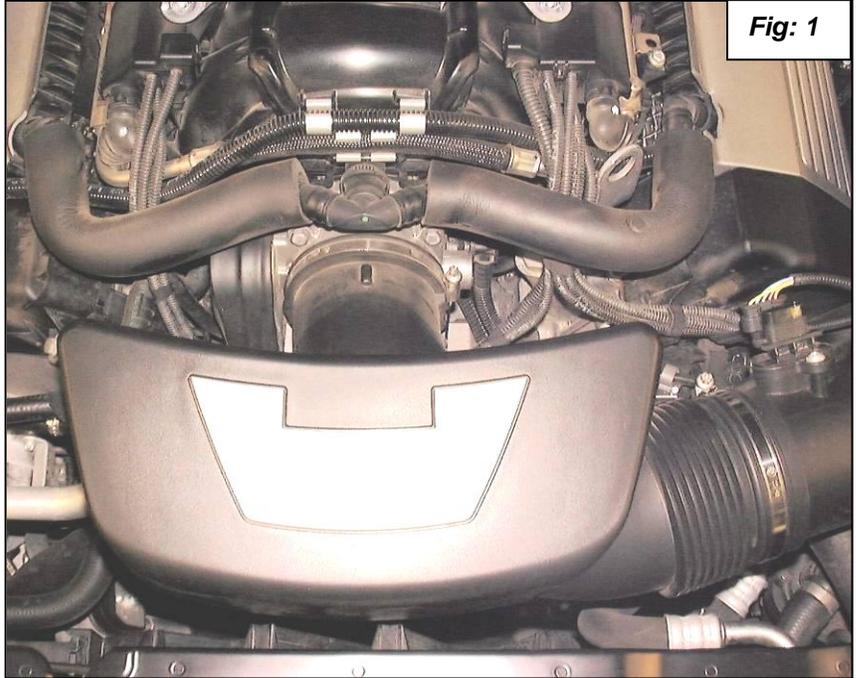
Please take the time to read these instructions thoroughly before proceeding. When performing the installation, read the entire numbered instruction before working on the car. If you feel that you do not have the requisite skill, please arrange for a qualified repair facility to perform the installation.

If you encounter any difficulties during the installation, or if these instructions are not clear to you, please call Dinan's Technical Support Staff at (408) 779-8584.

INSTALLATION INSTRUCTIONS

1. Open hood and remove acoustic engine cover by removing four nuts and lift off cover to the front.

2. Remove hose between throttle body and air mass meter by loosening hose clamps. Save hose clamps for use later. See figure 1.

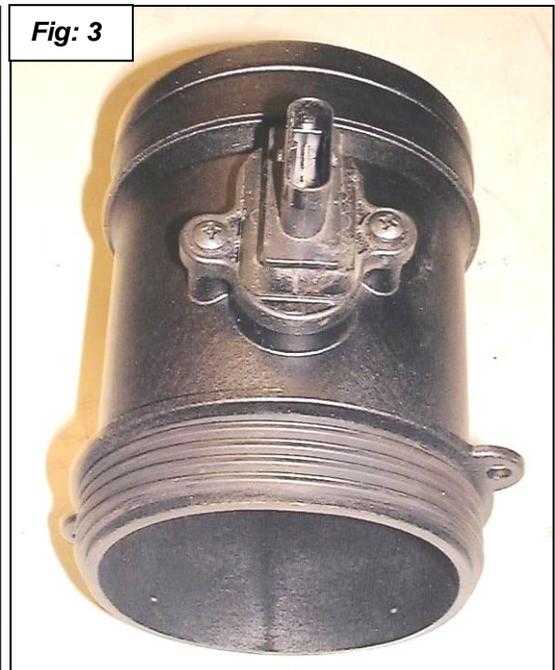


3. Remove the stock airbox assembly. Disconnect the wire connector. Remove the Torx head bolts and unclip the inlet tube from the airbox. Pull the entire air box assembly from the car.

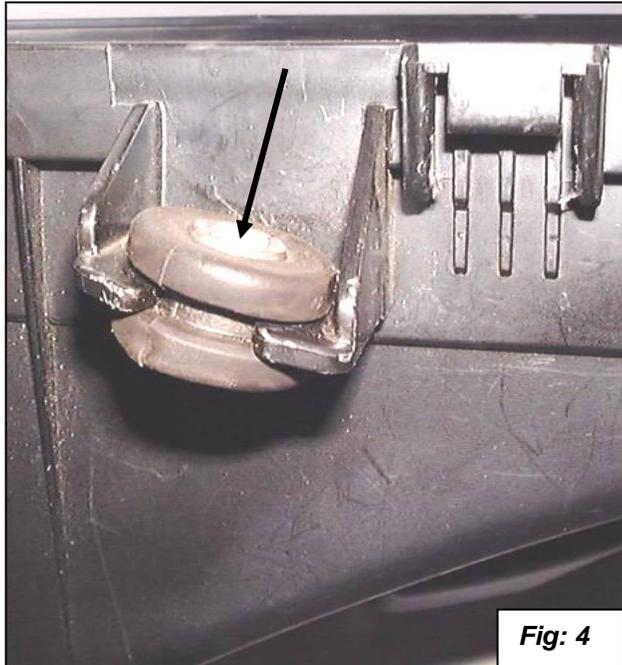
4. Carefully unbolt the air mass meter sensor from the airbox lid. The bolts are T-20. Discard stock bolts.

5. Carefully install the air mass meter sensor into the Dinan air mass meter housing using the supplied screws. See figures 2 and 3.

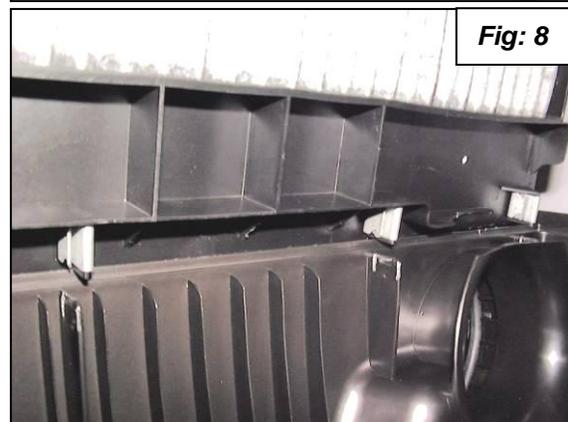
6. Install the supplied gasket ring onto the Dinan air mass meter. See figure 3.



7. Remove the stock rubber mounts from the mounts on the stock air box bottom. First slide the metal sleeve down out of the rubber then pull the rubber grommet out the side through the slot. See figures 4 and 5. Install them into the Dinan Air Box mounts in reverse order of removal.



8. Remove the stock Air box top from the assembly by opening the clips. Remove the charcoal evaporative filter that is clipped to it by carefully prying the filter with a small screwdriver. Start at one corner and work your way around the filter from clip to clip. See figures 6, 7 and 8.



9. **Remove the metal clips from the charcoal evaporative filter. Warning! Engine damage can occur if these clips are left on.** Remove the protective plastic covering from the Dinan air filter. Install the charcoal filter on top of the Dinan air filter as shown in figures 9 and 10. The charcoal evaporative filter nests into the lip on the Dinan air filter and is held in place by fingers on the Dinan Air Box Top. Fasten the Dinan Air Box top and bottom to one another while aligning the filters.



Fig: 9

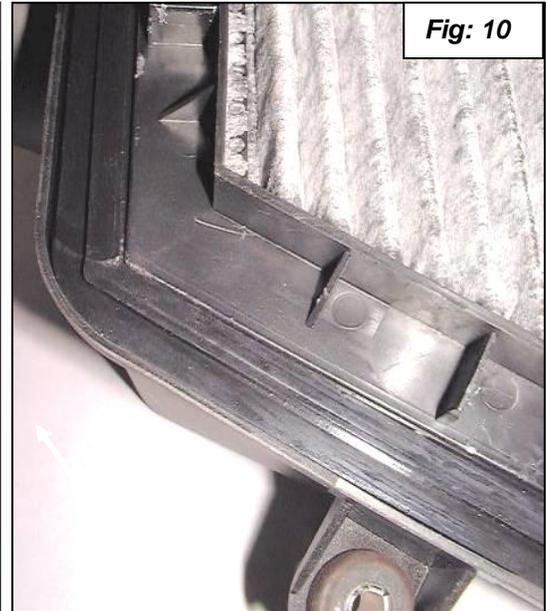


Fig: 10

Note: For racing purposes, removing the charcoal filter will add substantial amounts of power. This removal will not affect the vehicle's ability to meet a tailpipe emissions test that is sometimes performed by the sanctioning body after a race. However, the charcoal filter is part of the emissions system, and as such, it must be retained on any pollution-controlled motor vehicle used upon a public highway.

10. Install the Dinan Air Mass Meter into the Dinan Air Box Top using the supplied screws. See figure 11.



Fig: 11

11. The oil cooler lines need to be bent down slightly to make room for the extra air inlet tube. The inlet tube goes between the radiator hose and the oil cooler lines. See figure 12. Figure 13 shows how the extra inlet tube gets routed between the radiator hose and oil lines into the lower half of the Dinan Air Box.

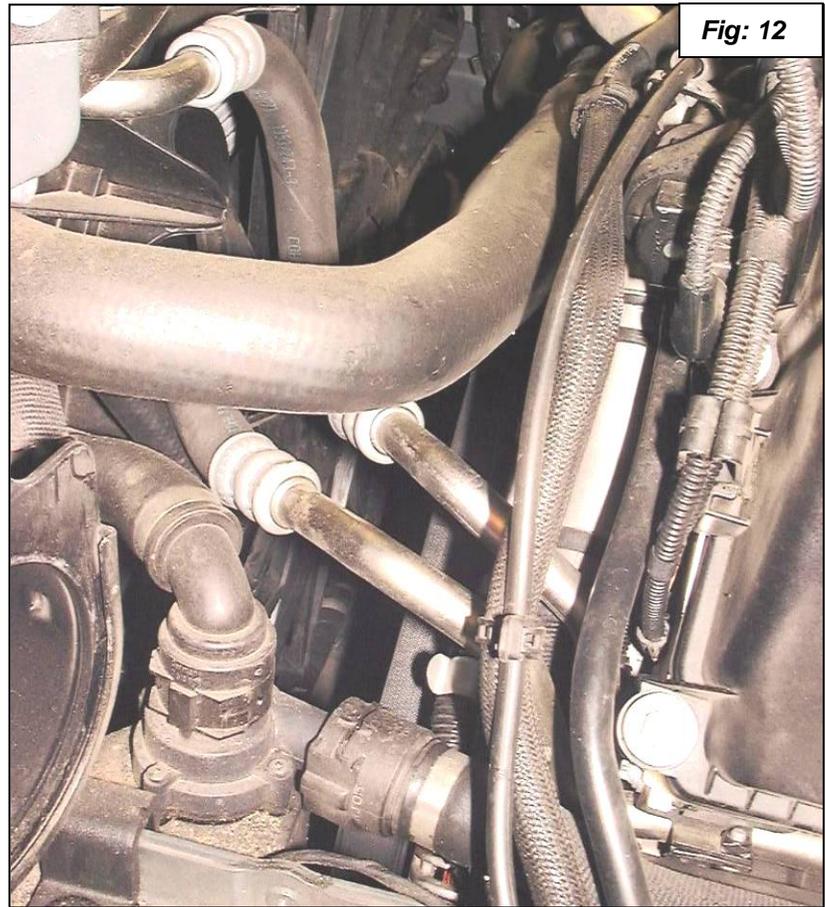


Fig: 12

12. Install the Dinan Air Box Assembly into the car using the stock bolts. Be sure to get the front air inlet slid into the stock snorkel correctly so it snaps in place.

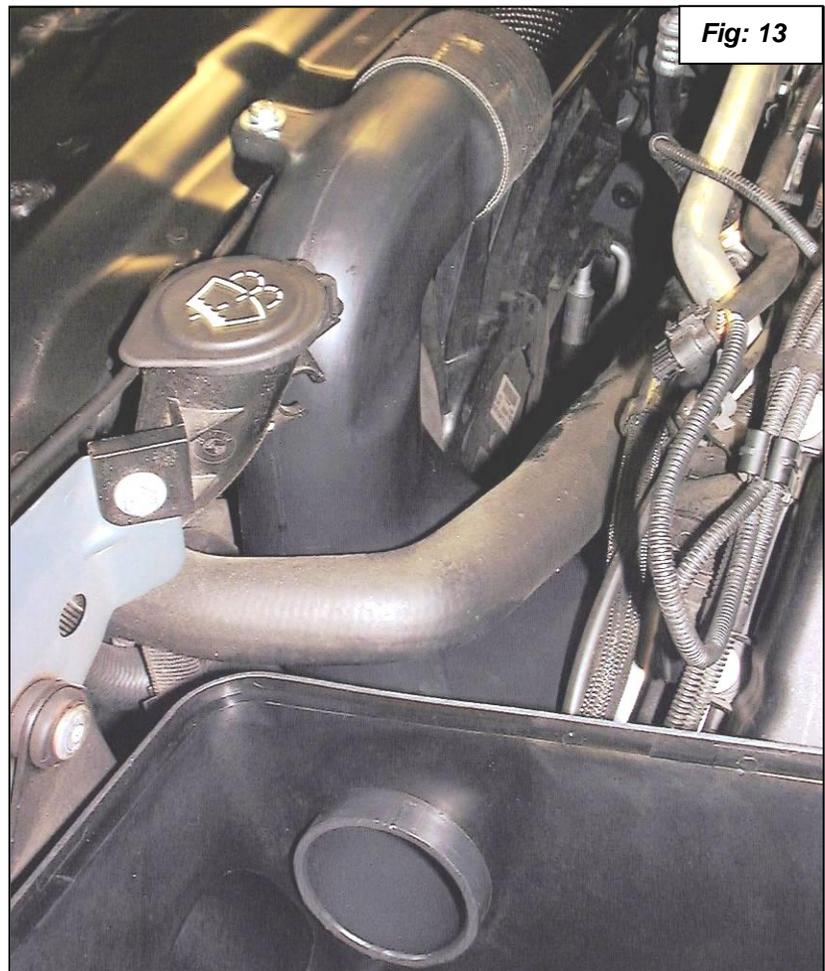
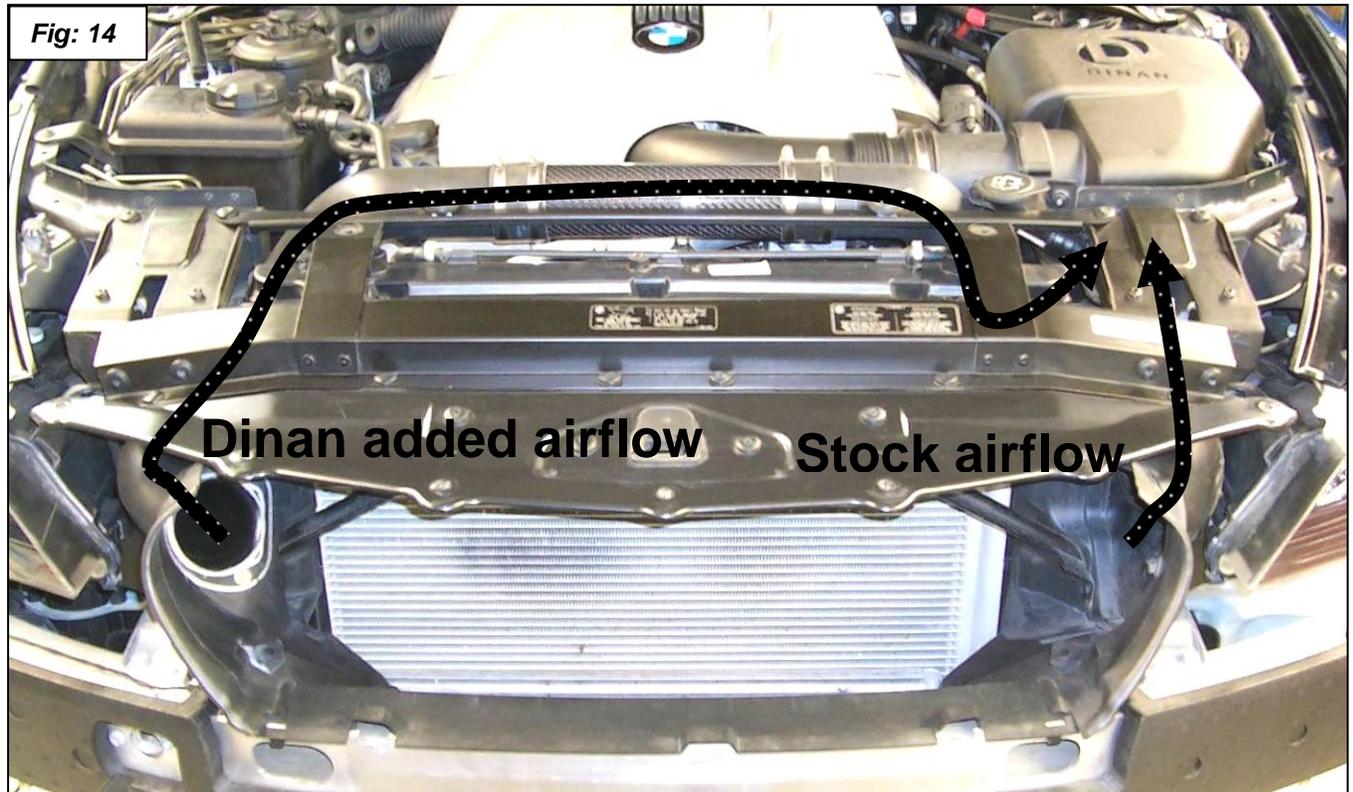


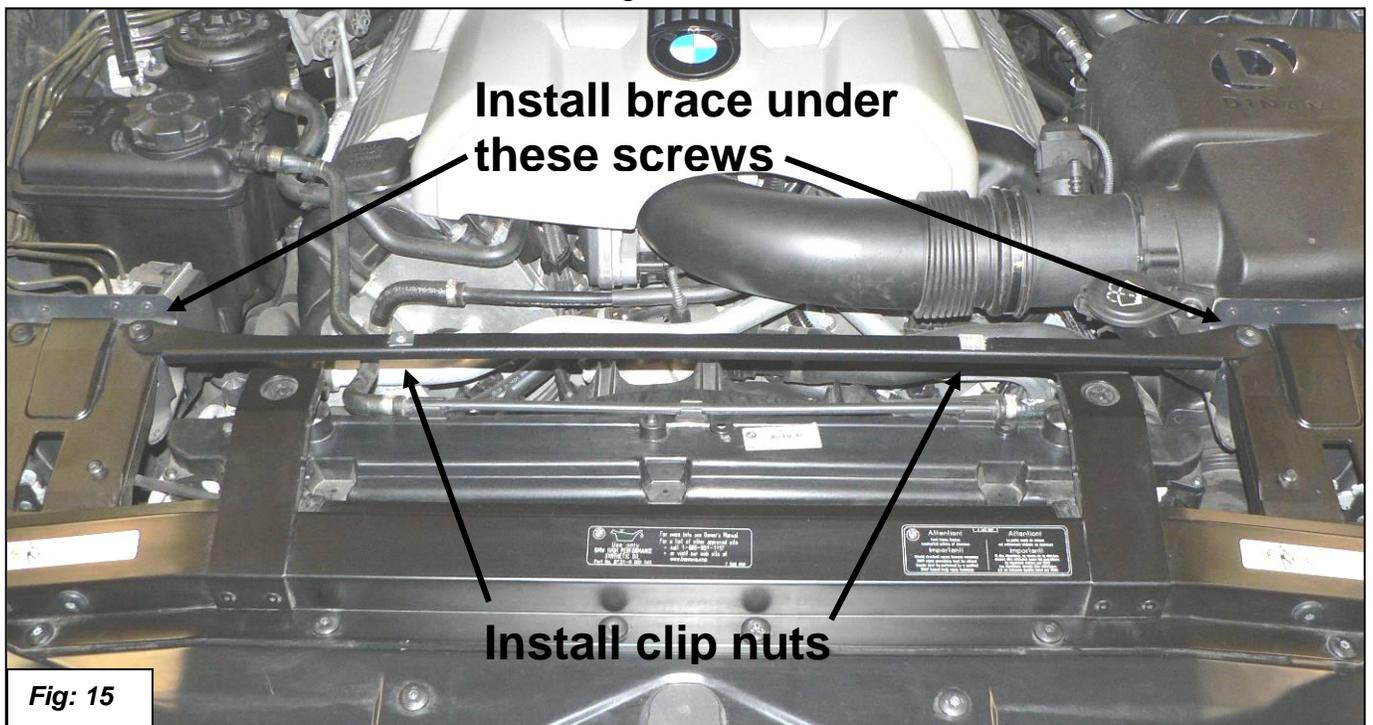
Fig: 13

Air Box lid and filter removed are removed in the photo for instruction clarity

13. Follow BMW TIS instructions to remove the front bumper to gain clearance to install the air duct inlet that picks up high-pressure air in front of the radiator on the passenger side. See figure 14.



14. Remove the passenger side headlight following the BMW TIS instructions.
15. Remove the two mount screws and install the center support bracket in-between the bolts as shown in figure 15.

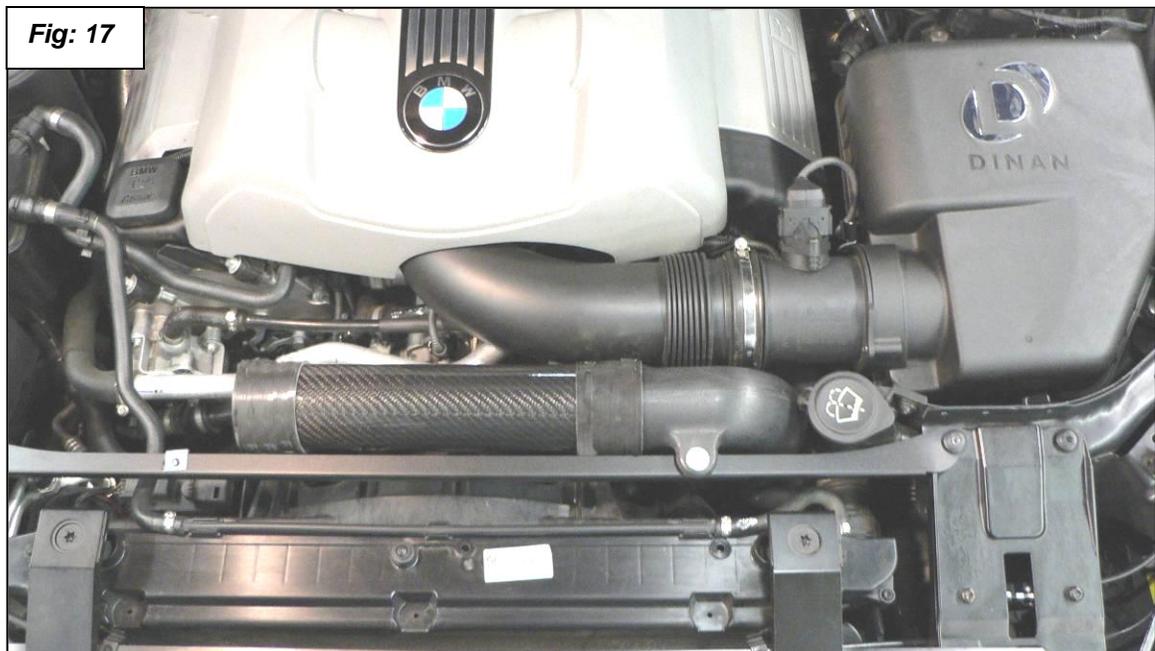


16. Install the 6mm clip nuts onto the center support bracket. Note that the holes are slotted for adjustment. See figure 15.

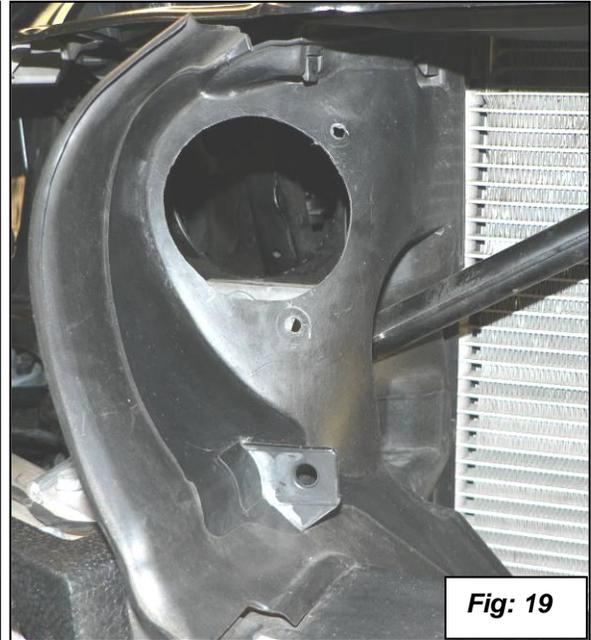
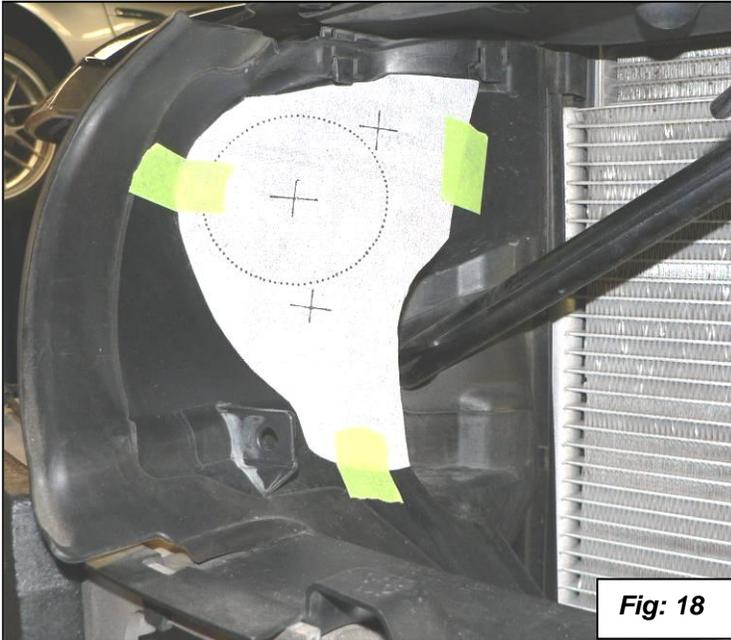
17. Install the left tube into the lower air box. See figure 16 (it shows the routing of the tube). (*The upper half of the air box and filters are removed in the photo for instruction clarity*). The tube slides into the air box with a tapered fit. Slide the tube in until snug and the mounting flange is positioned as shown.

18. Slide both silicone hoses over the carbon fiber center tube.

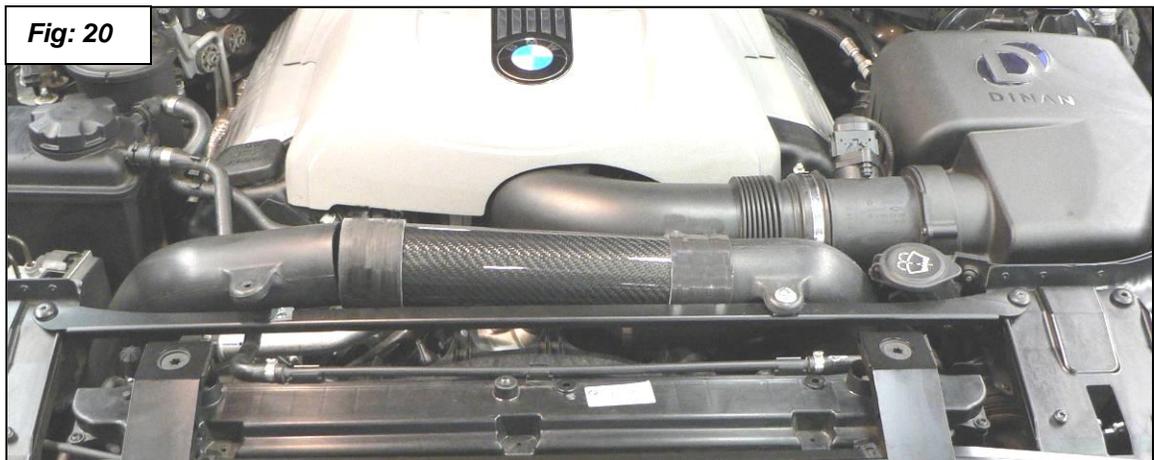
19. Slip the carbon fiber center tube into position and slide the silicone hose onto the left tube. This is a tight fit, so hose clamps are not needed. See figure 17.



20. On the last page of the instructions there is a template for cutting the hole for the inlet tube. Cut out the template and tape to the radiator shroud as shown in figure 18. Center punch the three crosshair points onto the shroud. It helps to use an automatic center punch. Remove the template. Drill out with a 1/8" pilot drill the three marked holes. Enlarge each hole with a 1/4" drill bit. With a 3" hole saw drill out the large center hole that had the dots around it. See figure 19.

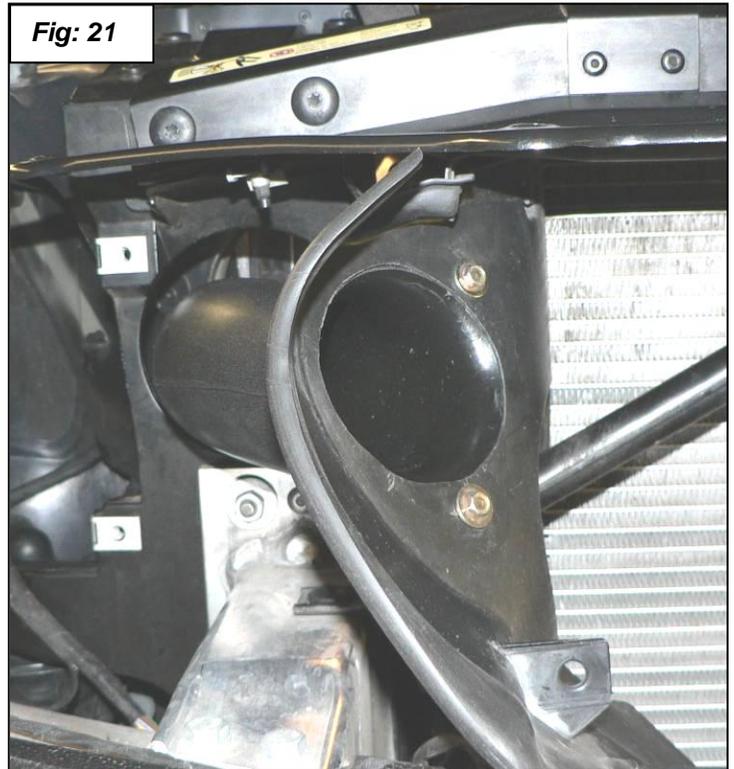


21. Install the right side tube by twisting large end in between A/C lines and Brake Control Unit. Then slide silicone hose over tube end. This is a tight fit, so hose clamps are not needed. See figure 20.



22. Fasten the tube loosely to the center support brace with a 6mm x 25mm bolt, wave washer and flat washer.
23. Align the tube with 3" center hole in the radiator shroud you just drilled and mark the tube through the two 1/4" holes. Drill out the holes you marked on the tube with a 3/16" drill bit.

24. Fasten the tube to the radiator shroud with the supplied 5mm bolts, washers and lock nuts. See figure 21.
25. Adjust the tubes for best fit and tighten all bolts, screws and clamps.
26. Install the headlight and bumper following BMW TIS instructions.
27. Install the right side tube by twisting large end in between A/C lines and Brake Control Unit. Then slide silicone hose over tube end. This is a tight fit, so hose clamps are not needed. See figure 22.



28. Attach the Dinan AFM/TB Tube to the throttle body using the supplied hose coupler and stock hose clamps. Leave clamps slightly loose for now. See figure 22.



29. Slip the supplied 4" bellows hose coupler onto the Dinan AFM/TB Tube, along with two new hose clamps. Do not tighten yet.
30. Attach the 4" bellows hose couple to the air mass meter and tighten the hose clamps. Also tighten the hose clamps at the throttle body. Connect the Air Mass Meter wires to the Air Mass Meter.
31. Install the acoustic engine cover with the four nuts.

NOTE:

- We recommend replacing the air filter every 30,000 miles. The Dinan part number is D401-0012.

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