



# COLD AIR INTAKE

## INSTALLATION INSTRUCTIONS

# D760-0002

Fits: 2001-05 E46 330i, ci, xi

### NOTES:

- For best performance, we recommend that this intake be used with the appropriate Dinan Performance Software for your vehicle.
- Evaluate & repair any stored fault codes prior to installing Dinan software.
- Do not proceed with kit installation unless the correct Dinan software has been installed.
- Failure to install the correct Dinan software may result in drivability issues and/or an illuminated check engine light!



# COLD AIR INTAKE

## INSTALLATION INSTRUCTIONS

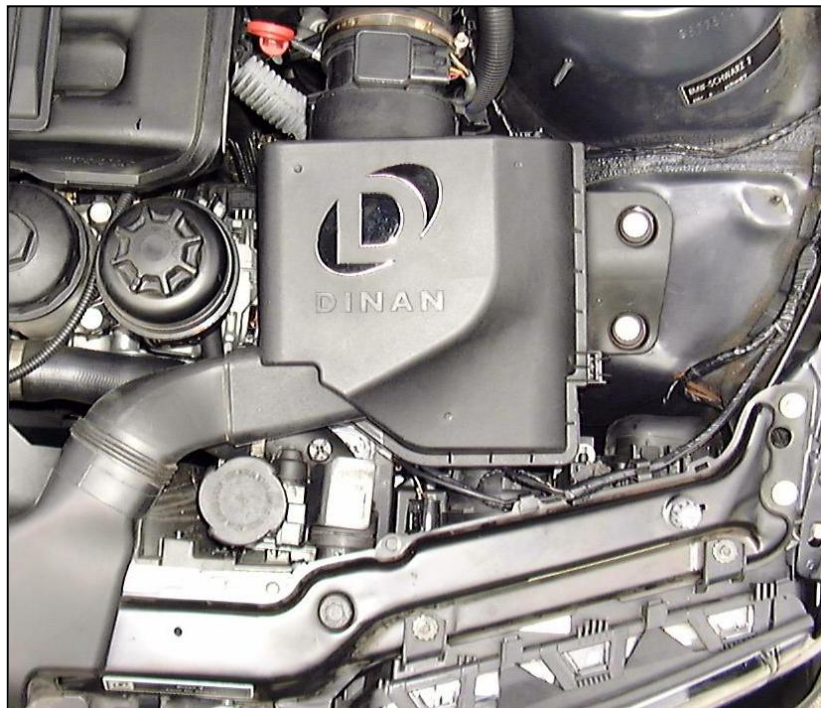
# D760-0002

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### PARTS LIST

Top Cover  
Air Filter w/ clamp  
Top Cover Gasket  
Air Flow Meter Gasket  
Hardware Kit



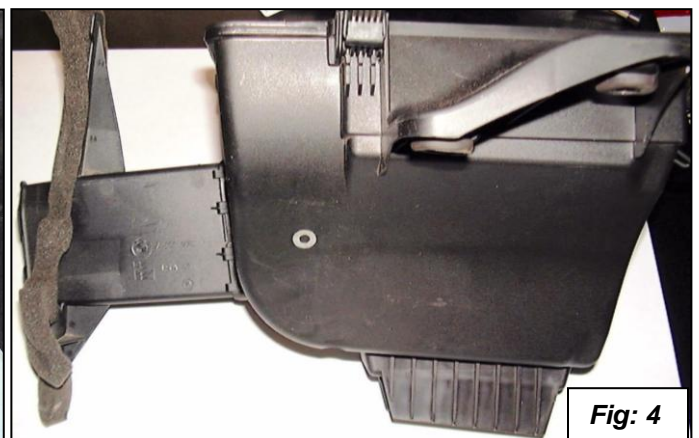
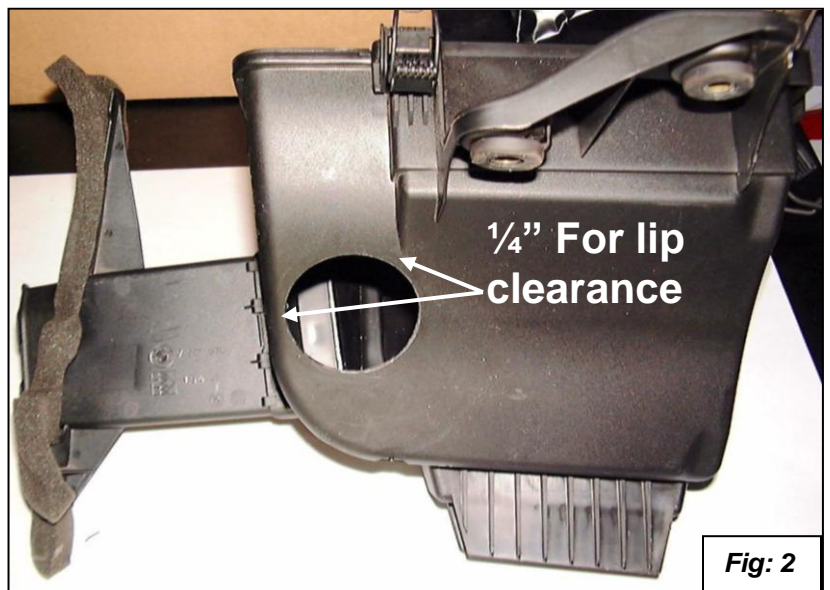
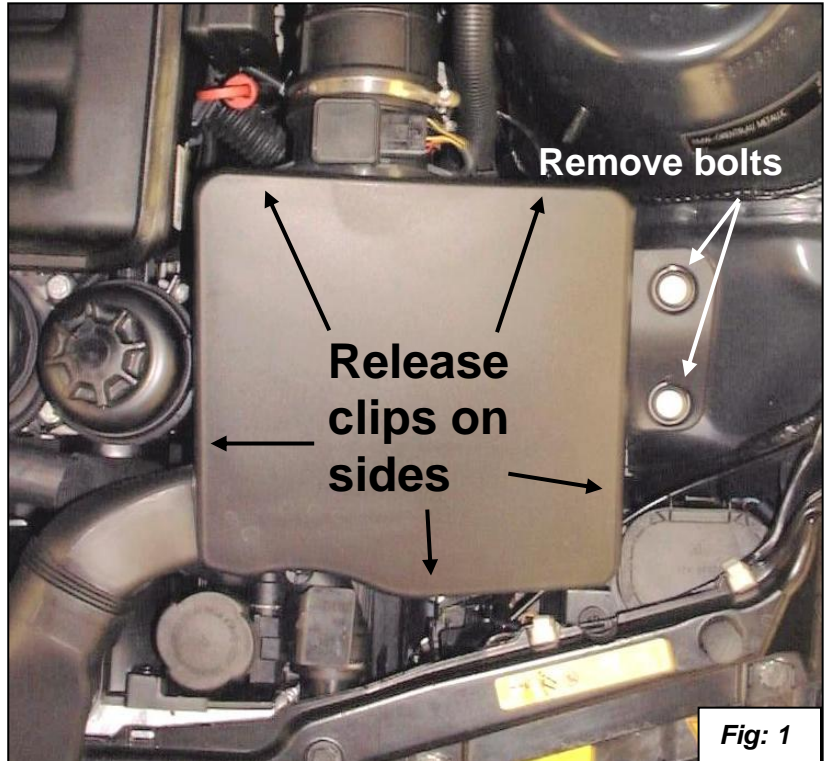
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Congratulations for being selective enough to use a Dinan Engineering Cold Air Intake. We have spent many hours developing this system to assure that you will receive maximum performance and durability with minimum difficulty in installation.

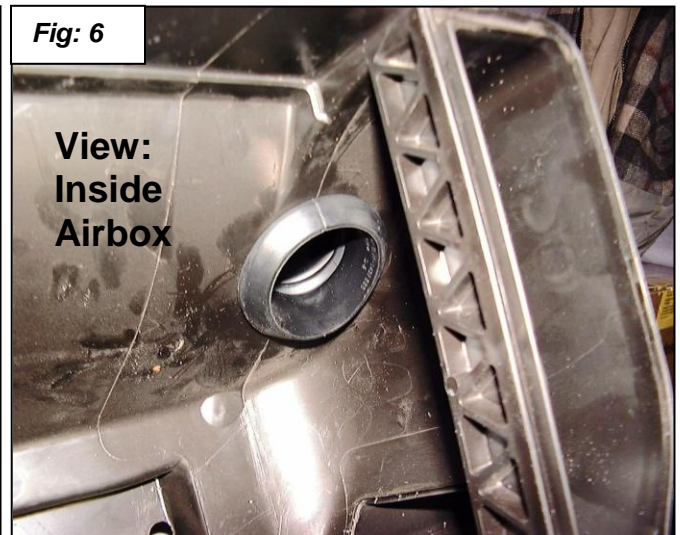
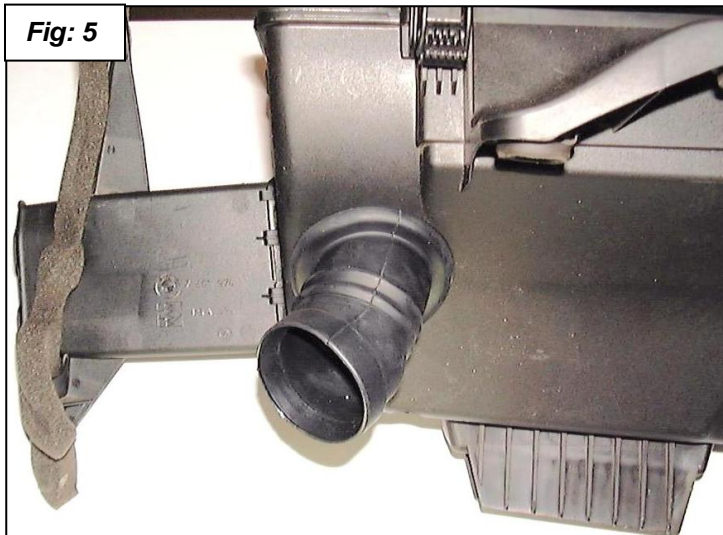
Please take the time to read these instructions thoroughly before proceeding. When performing the installation, read the entire numbered instruction before working on the car. If you feel that you do not have the requisite skill, please arrange for a qualified repair facility to perform the installation.

## INSTALLATION INSTRUCTIONS

1. Open hood and remove stock airbox lid. Loosen the hose clamp around the Air Mass Meter and disconnect the wire connector. Separate the airbox Lid from the airbox base by unclipping the retaining clips and remove lid while sliding the inlet snorkel out of the side of the lid. See figure 1.
2. Remove the lower half of the air box from the car by removing the two 10mm head bolts as shown in figure 1.
3. You will need to cut a 2.25" hole in the side of the lower half of the air box. You must use the correct size hole saw. See figure 2.
4. Place the hole saw with out the arbor on the air box as shown in figures. Line it up about  $\frac{1}{4}$ " away from the edge and flare and Mark hole. See figures 2,3 and 4.



5. Drill a pilot hole and then the 2.25" hole with the hole saw in the location you marked.



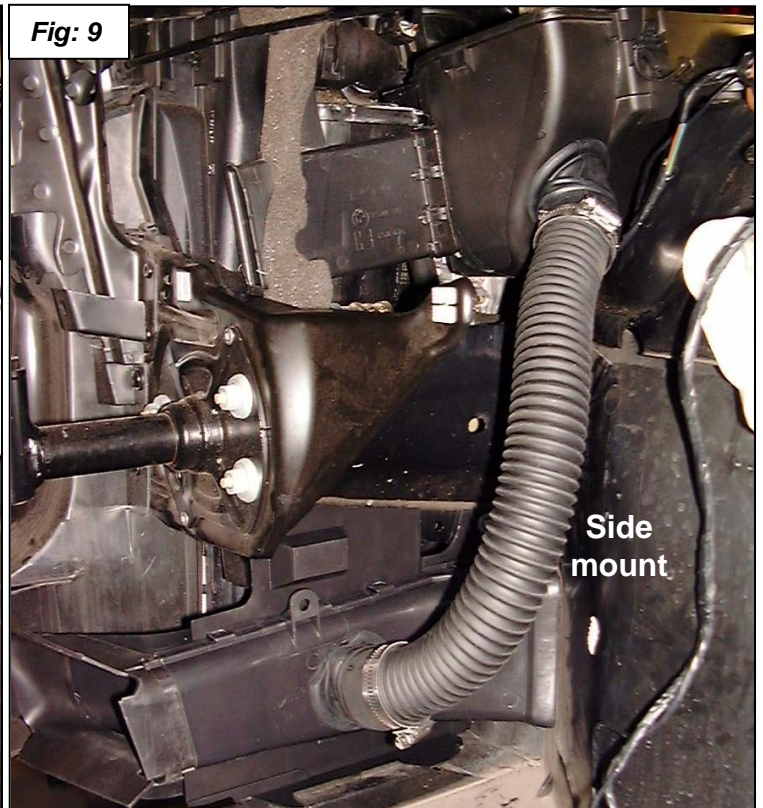
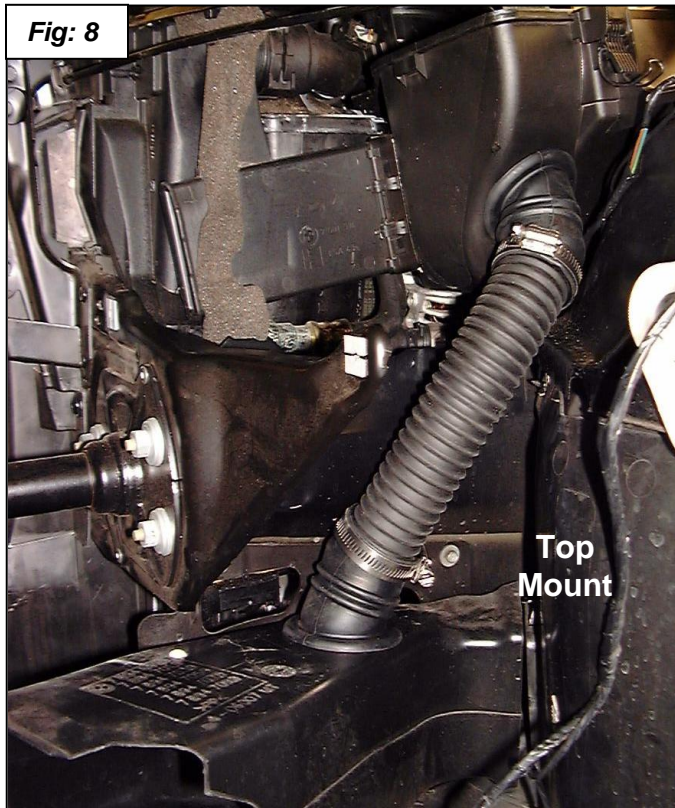
6. Deburr the hole and insert one of the air hose ends into it. See figures 5 & 6.
7. Insert the flex air hose into the air hose end and clamp with the #24 hose clamp. Do not over-tighten the hose clamp. See figure 7.



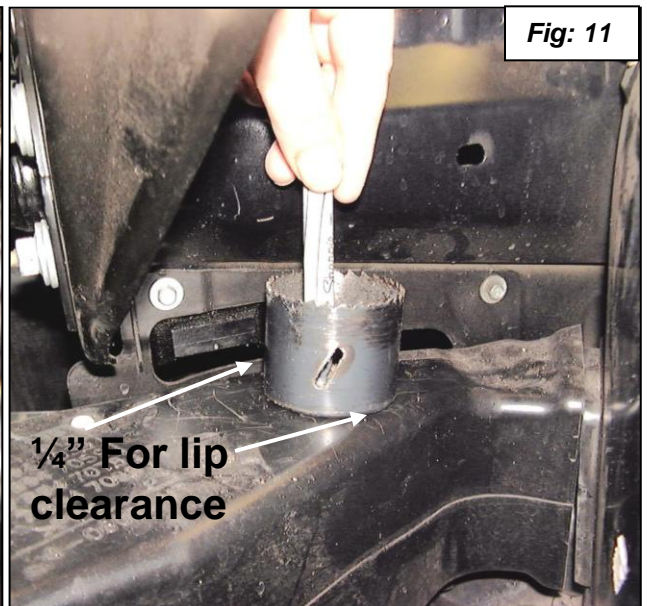
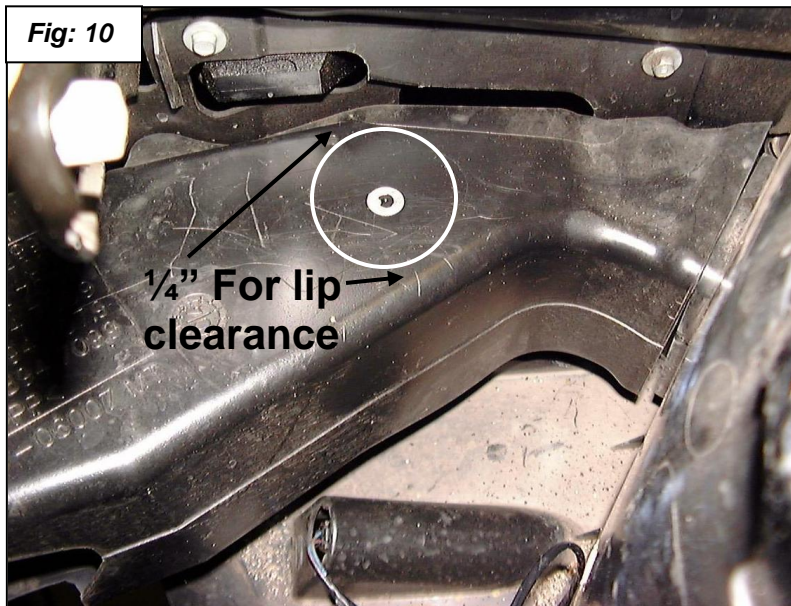
**There are many Brake ducts used on the E46 line of cars.**

We will show you the recommended location on two of them. Your car may vary somewhat from the photos shown. The main goal is to pick up some cold air from the brake duct. Keep in mind that you will need to have room to route the hose from the brake duct to the air box. You will need to locate the hole on either the top or the side of the brake duct depending what you have room for. It is better to locate the hole just ahead of the narrowest part of the brake duct to get high-pressure air. On some ducts this is not possible and you will go into the side in a place where everything will clear. See figures 8 and 9 on next page.

8. Remove the driver's side headlight to gain clearance to install the hole into the brake duct. On a few of the cars it may help to remove the front bumper.

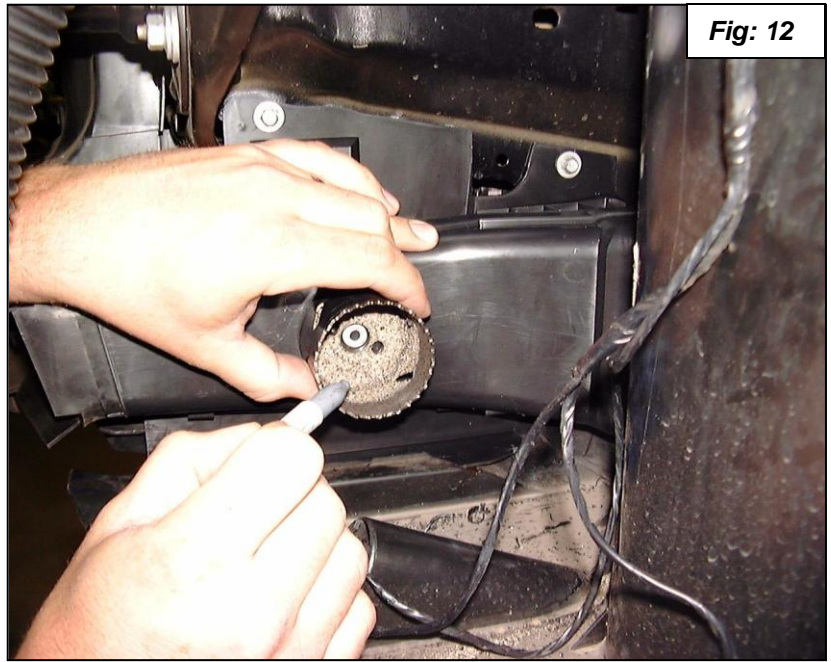


9. Place the 2.25" hole saw without the arbor on the brake duct as shown in figure 11. Line it up about 1/4" away from the edge and Mark hole. See figures 10 and 11.



10. Drill a pilot hole and then the 2.25" hole with the hole saw in the location you marked.
11. Deburr the hole.

12. Figures 9 and 12 show a small brake hose duct and gives you a good example as to where to locate the hole. Repeat steps 8-10 with the duct you have.



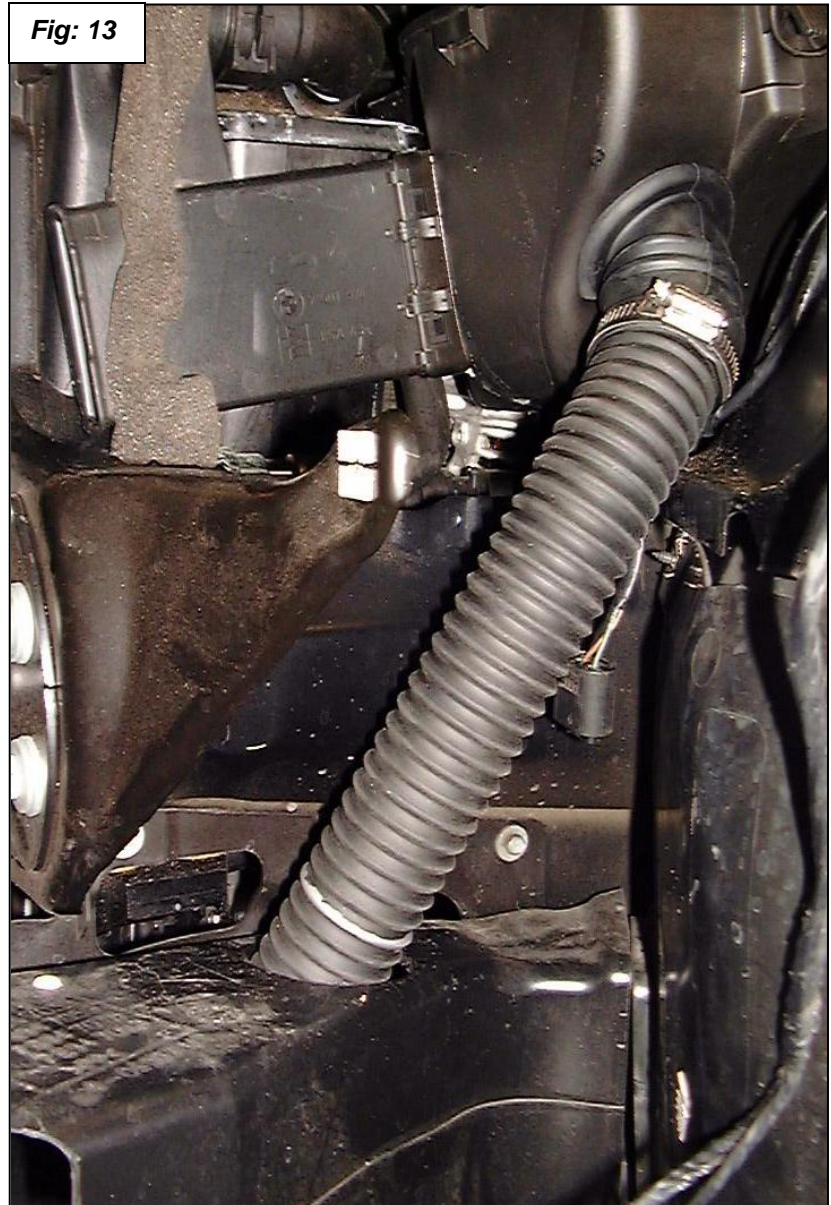
**Fig: 12**

13. Install the lower half of the air box into the car. Feed the flex air hose down into the hole you cut out of the brake duct. See figure 13. Do not fasten the box to the car yet because you will need to remove it to cut the hose to length.

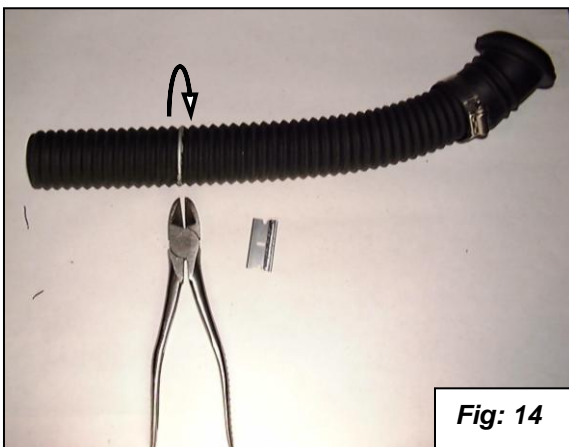
14. Mark the hose as shown in figure 13 about 1" up from the brake duct.

15. Remove the lower air box with the hose attached from the car.

16. Cut the hose with a wire cutter and a razor blade. First cut the wire on the line you marked then start on the bottom of the wire and wind your way up and around with the razor blade to carefully cut the hose. See figure 14.



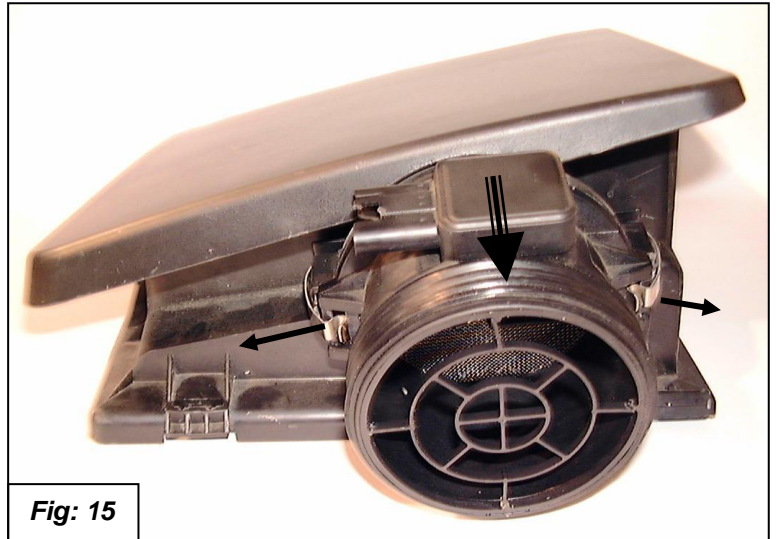
**Fig: 13**



**Fig: 14**

17. Install the air hose end into the brake duct making sure to get the groove seated in the hole.
18. Loosely install the # 24 hose clamp over the air hose end on the brake duct.
19. Reinstall the lower half of the air box guiding the duct hose into the air hose end on the brake duct. Fasten the box bottom to the car with the stock bolts. Tighten the hose clamp around the air hose end and duct. Do not over-tighten the hose clamp. Install the Gasket into the groove in the lower half of the air box.
20. Install the driver's side headlight and bumper if you removed it.

21. Pry back clips for air mass meter and separate Air Mass Meter from air box lid, **be careful not to damage the grid on the Air Mass Meter.** (The air box lid will not be reinstalled on the car). See figure 15.



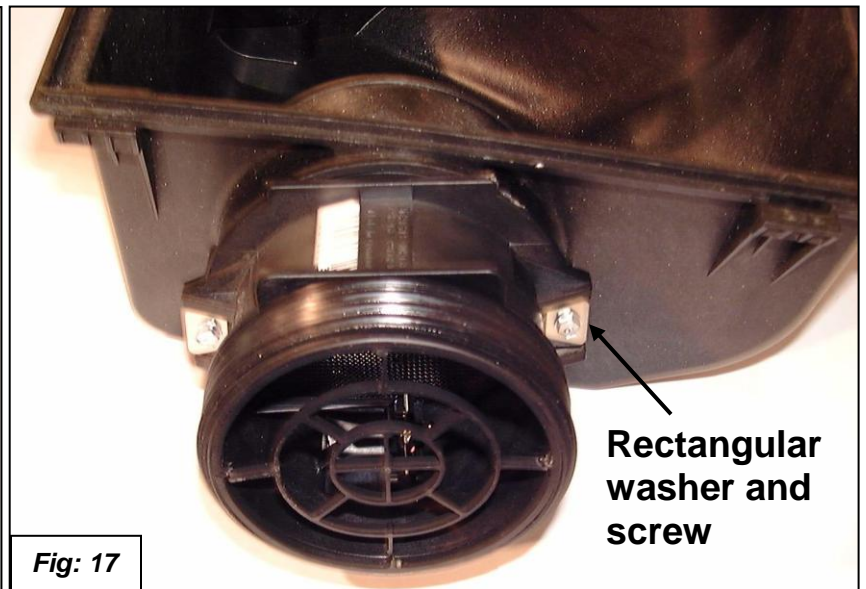
**Fig: 15**

22. Install the gasket ring onto the Air Mass Meter as shown in figure 16.

23. Install the Air Mass Meter into the Dinan lid using the supplied screws and rectangular washers. See figure 17.



**Fig: 16**



**Fig: 17**

**Rectangular washer and screw**

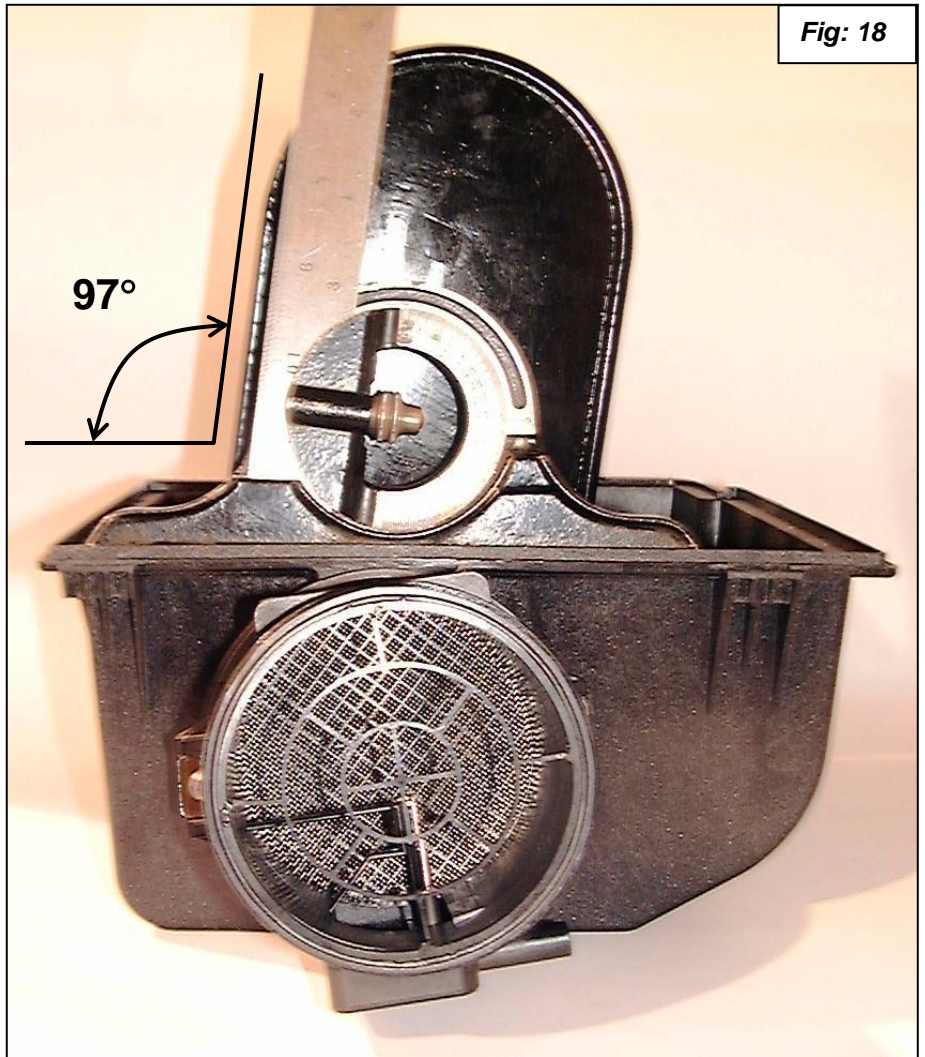
24. Install the filter onto the Dinan lid at a 97° angle and tighten clamp. See figure 18.

25. Install the Dinan lid assembly onto the car by inserting the Air Mass Meter into the inlet hose and the stock inlet snorkel into the side of the lid. **As you set the lid in place, check to see that the air filter is centered in the base and not hitting on either side. Adjust filter angle as needed.** Secure the clips from the base to the lid.

26. Tighten the hose clamp around the Air Mass Meter.

27. Connect the Air Mass Meter wires to the Air Mass Meter.

28. Enjoy!



**FOR BEST PERFORMANCE, WE RECOMMEND THAT THIS INTAKE BE USED WITH THE APPROPRIATE DINAN PERFORMANCE SOFTWARE FOR YOUR VEHICLE.** There are two methods to install the software:

- A Dinan Exclusive Dealer can download the software directly into your ECU. In this instance, you may proceed directly with the intake installation. Please contact your Dinan representative to locate the facility nearest you.
- You can send your ECU to Dinan for programming. Please contact your Dinan representative so that we may prepare for its arrival.

NOTE:

- We recommend replacing the air filter every 30,000 miles. The Dinan part number is D401-0001.