



COLD AIR INTAKE

INSTALLATION INSTRUCTIONS

D760-0007

Fits: 2001-05 E46 325i

NOTES:

- This intake MUST 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!

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COLD AIR INTAKE

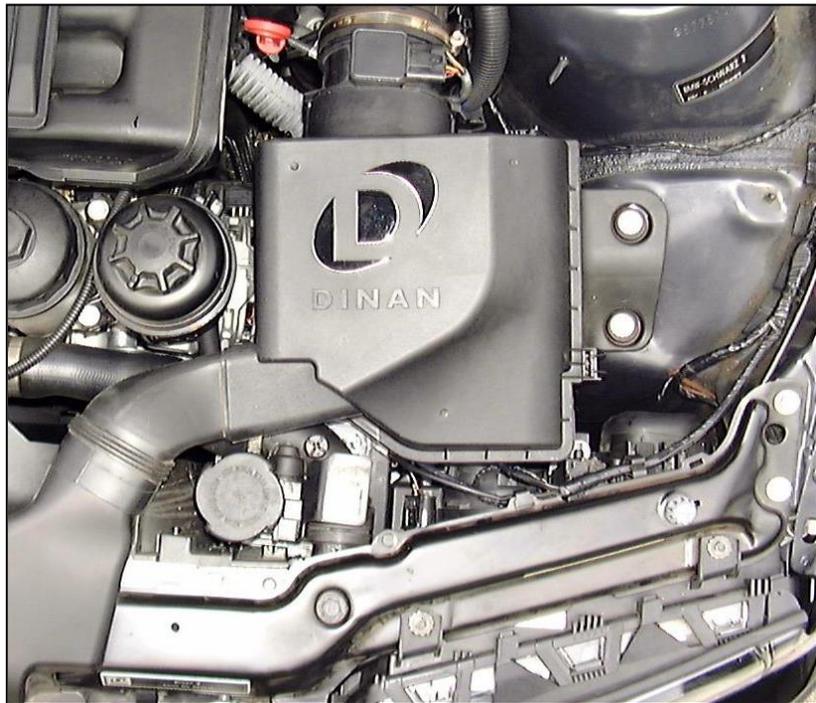
INSTALLATION INSTRUCTIONS

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PARTS LIST

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



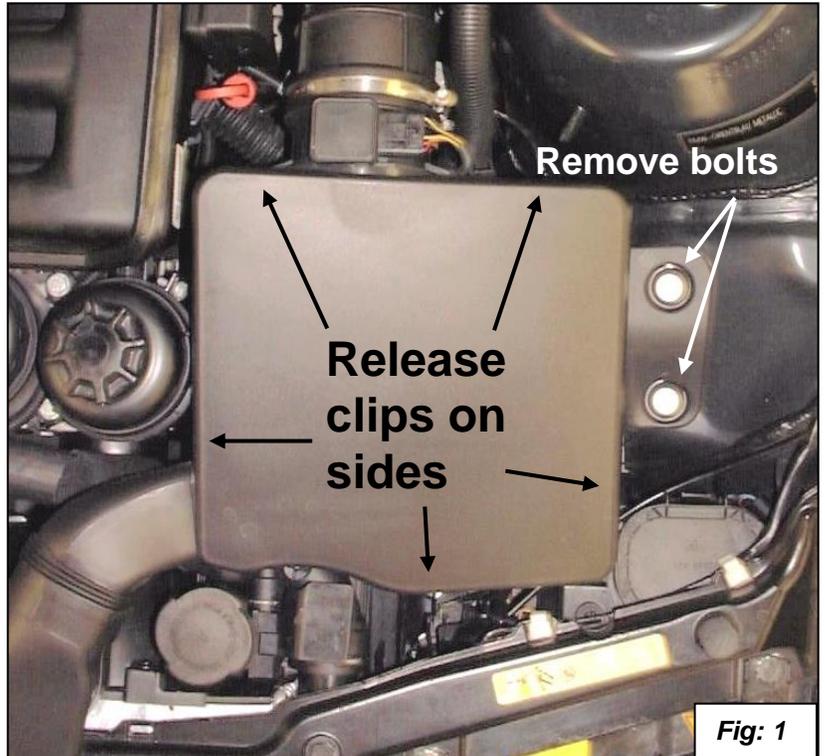
Congratulations for being selective enough to use a Dinan Engineering Cold Air Intake. We have spent many hours developing this system to assure that you will receive maximum performance and durability with minimum difficulty in installation.

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.

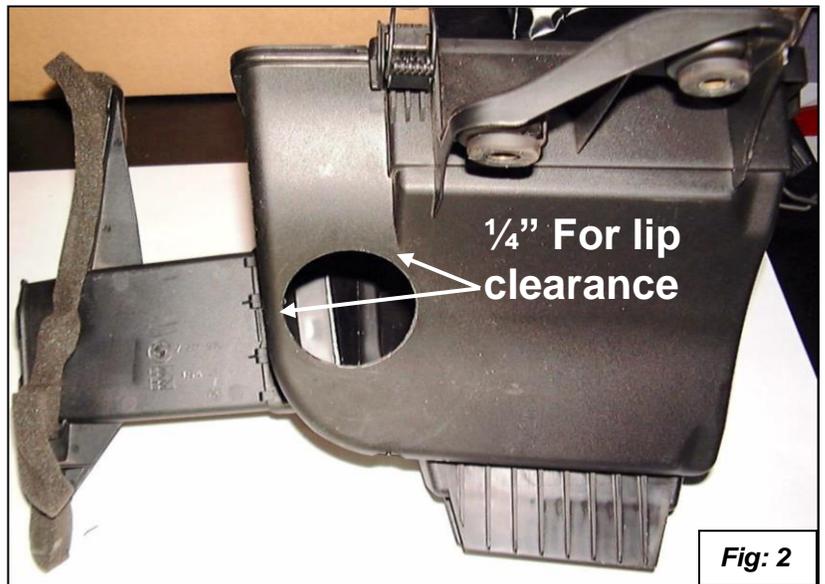
INSTALLATION INSTRUCTIONS

1. Open hood and remove 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.

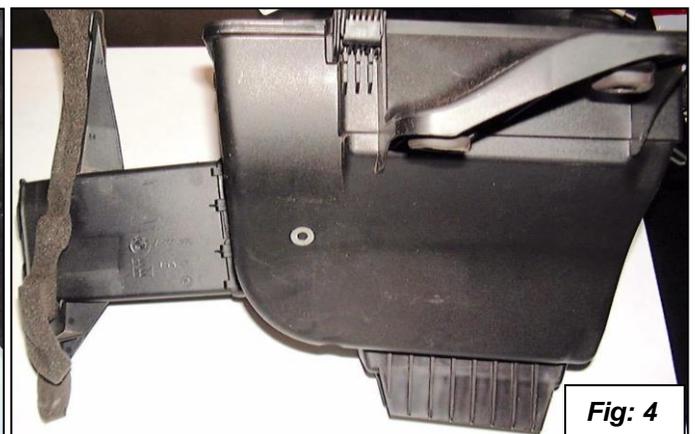


2. Remove the lower half of the air box from the car by removing the two 10mm head bolts as shown in figure 1.

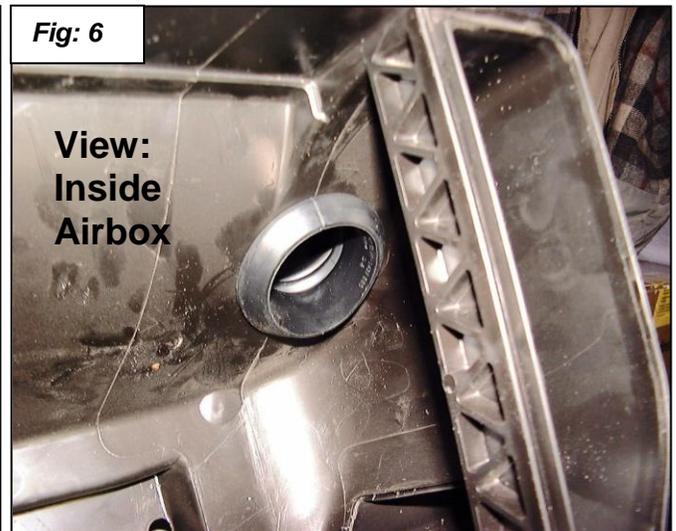
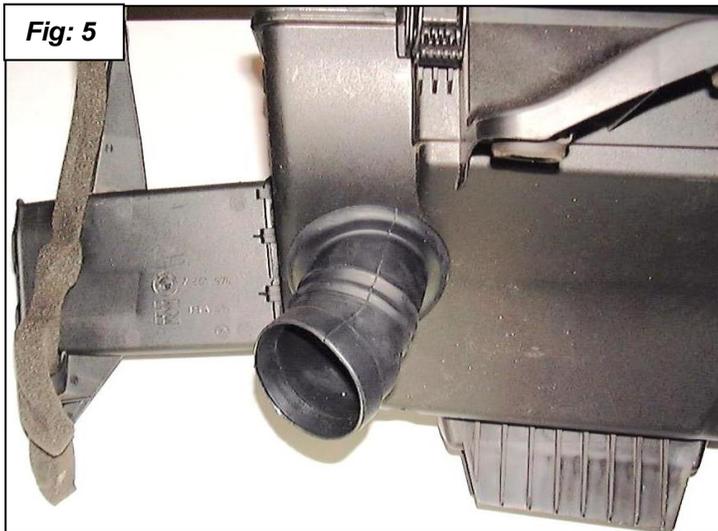
3. You will need to cut a 2.25" hole in the side of the lower half of the air box. You must use the correct size hole saw. See figure 2.



4. Place the hole saw with out the arbor on the air box as shown in figures. Line it up about 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.



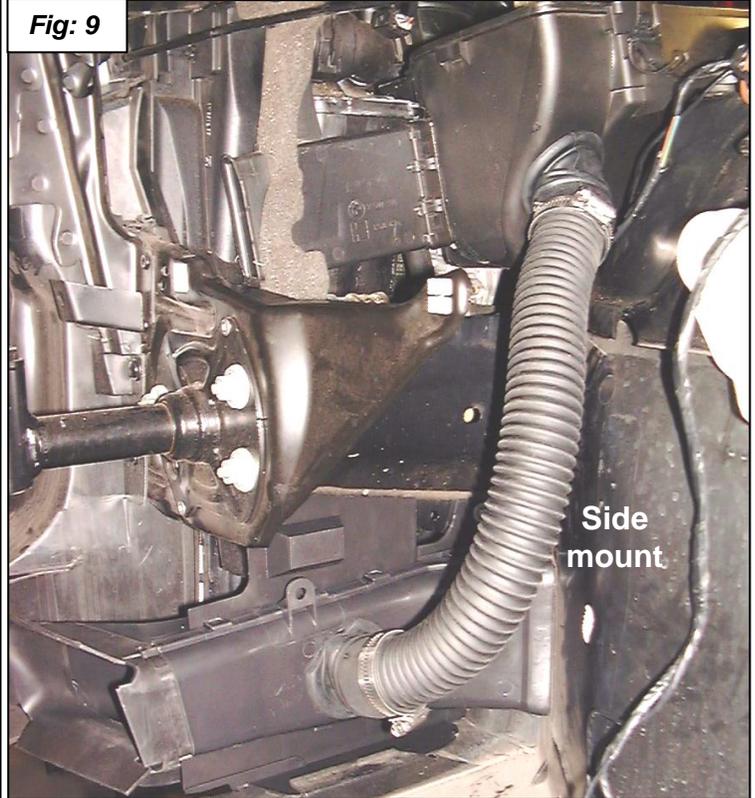
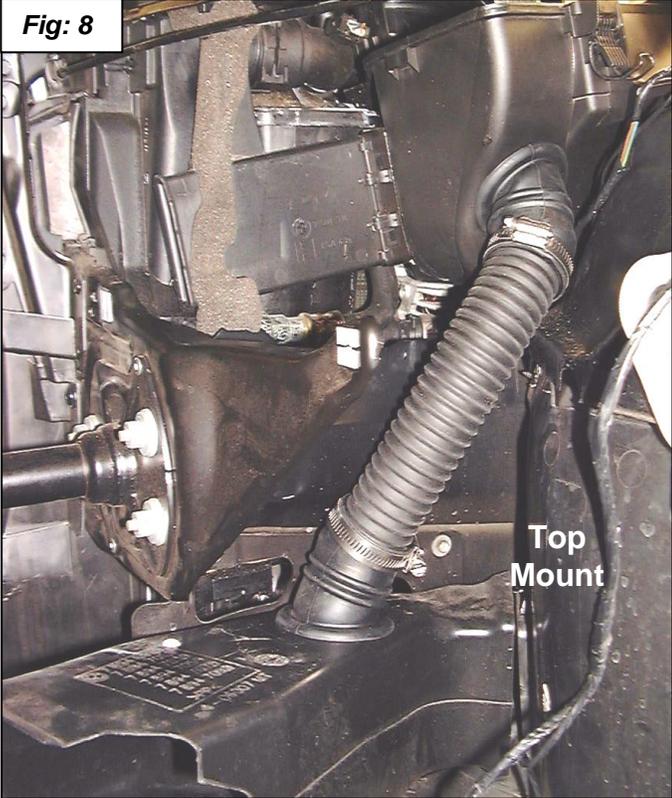
6. Deburr the hole and insert one of the air hose ends into it. See figures 5 & 6.
7. Insert the flex air hose into the air hose end and clamp with the #24 hose clamp. Do not over-tighten the hose clamp. See figure 7.



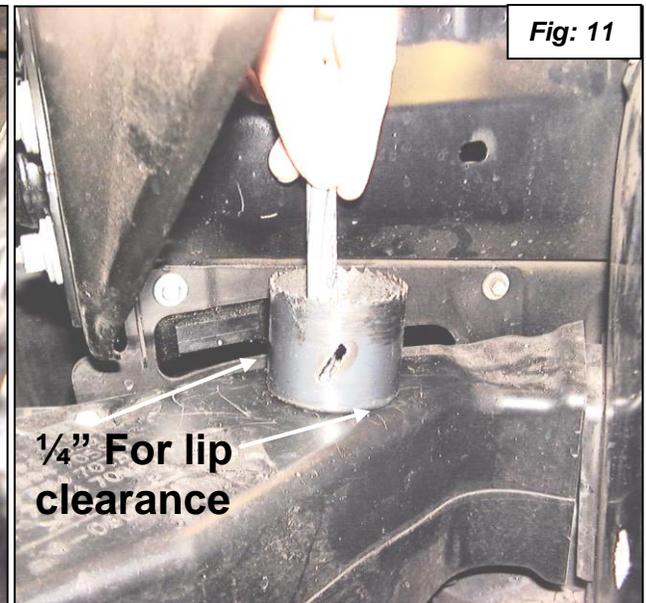
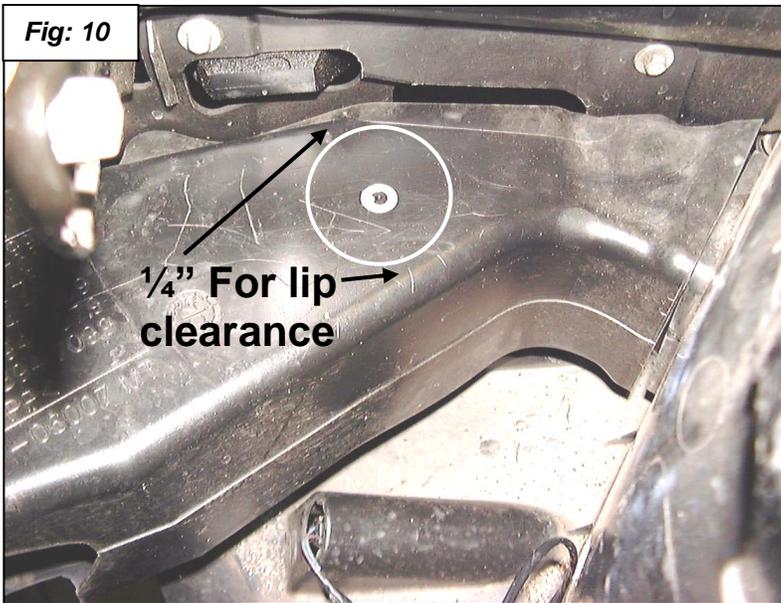
There are many Brake ducts used on the E46 line of cars.

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 $\frac{1}{4}$ " 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.

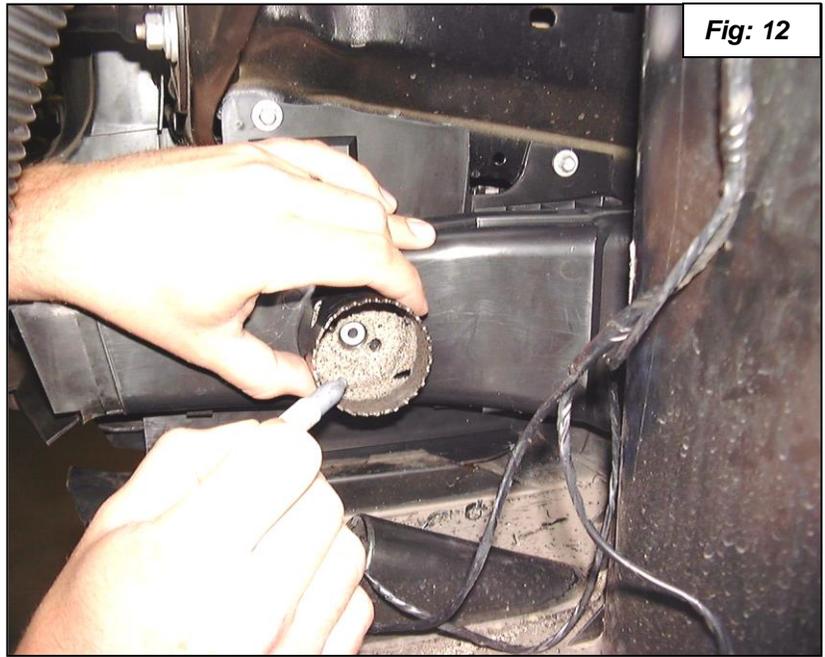


Fig: 12

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.

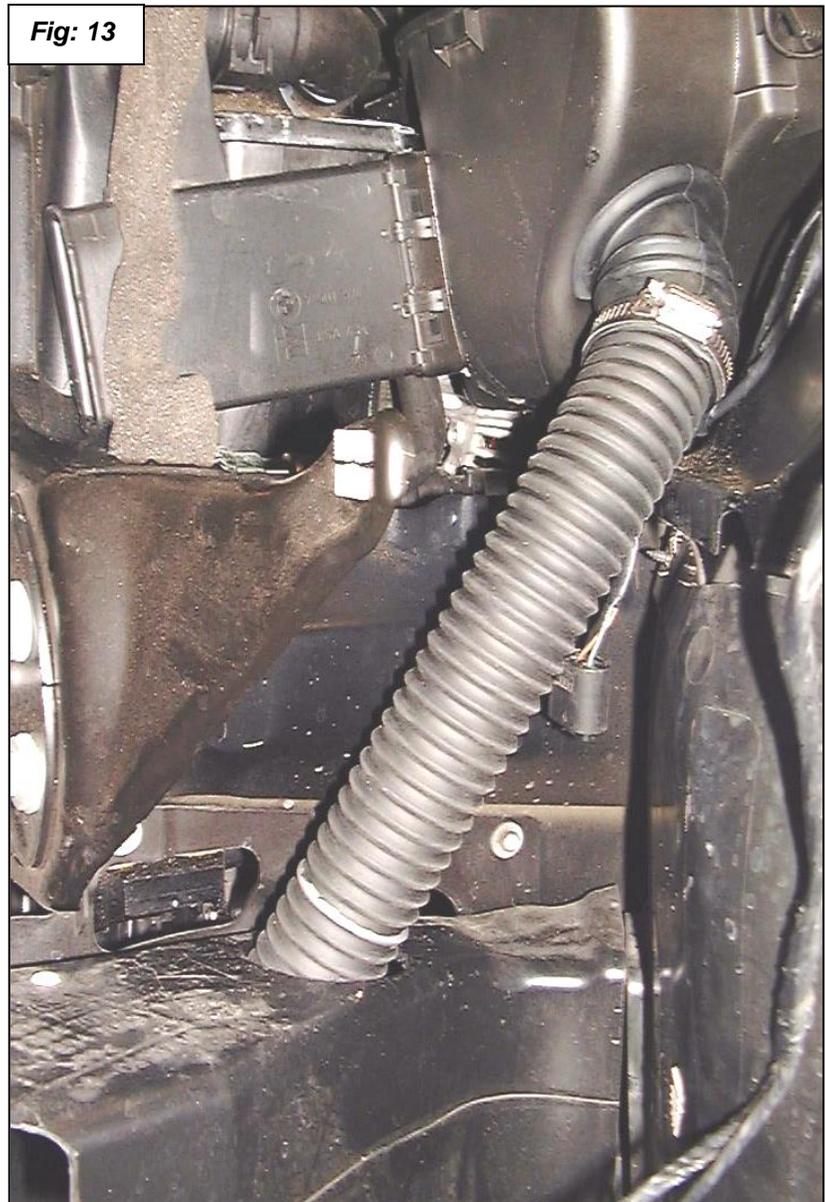


Fig: 13

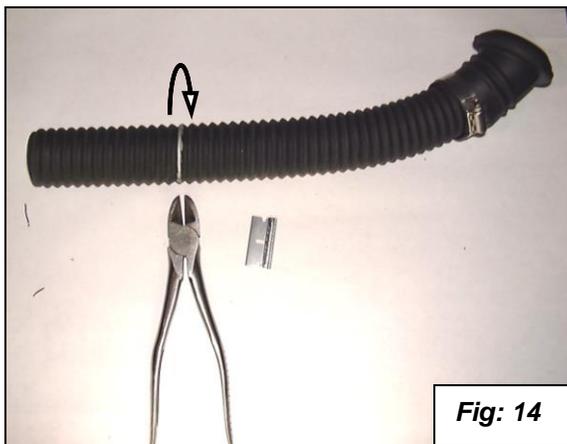


Fig: 14

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.

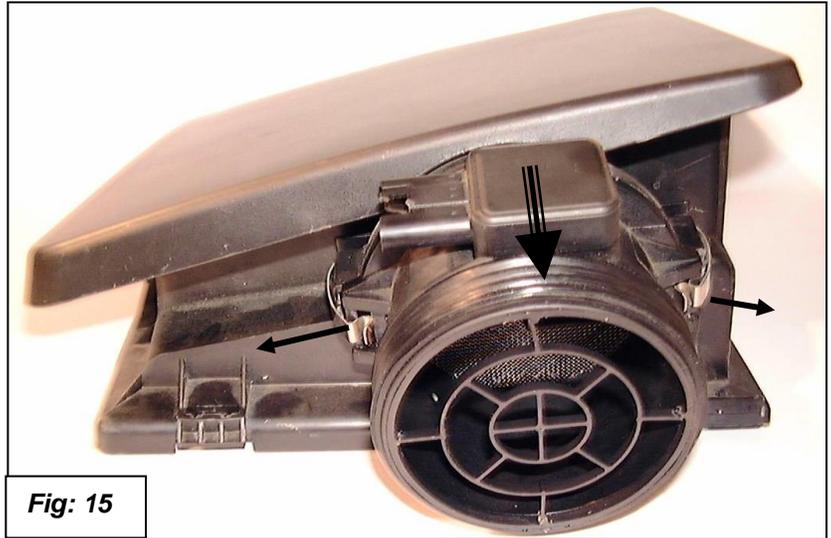


Fig: 15

22. Place the Air Mass Meter up to the new Dinan lid to check to see if it will fit. If your Air Mass Meter is larger than the hole in the Dinan air box lid you will have to remove the adapter and skip steps 23 & 24 and proceed to step 25.

23. Lightly lubricate the O-Ring in the Air Box Lid. Place the Air Mass Meter on the bench face down with the arrow pointing to the engine inlet and the mounting flange to the air box as shown in figure 16. Line up the screw holes and push the Dinan Air Box Lid onto the Air Mass Meter from inside the lid.

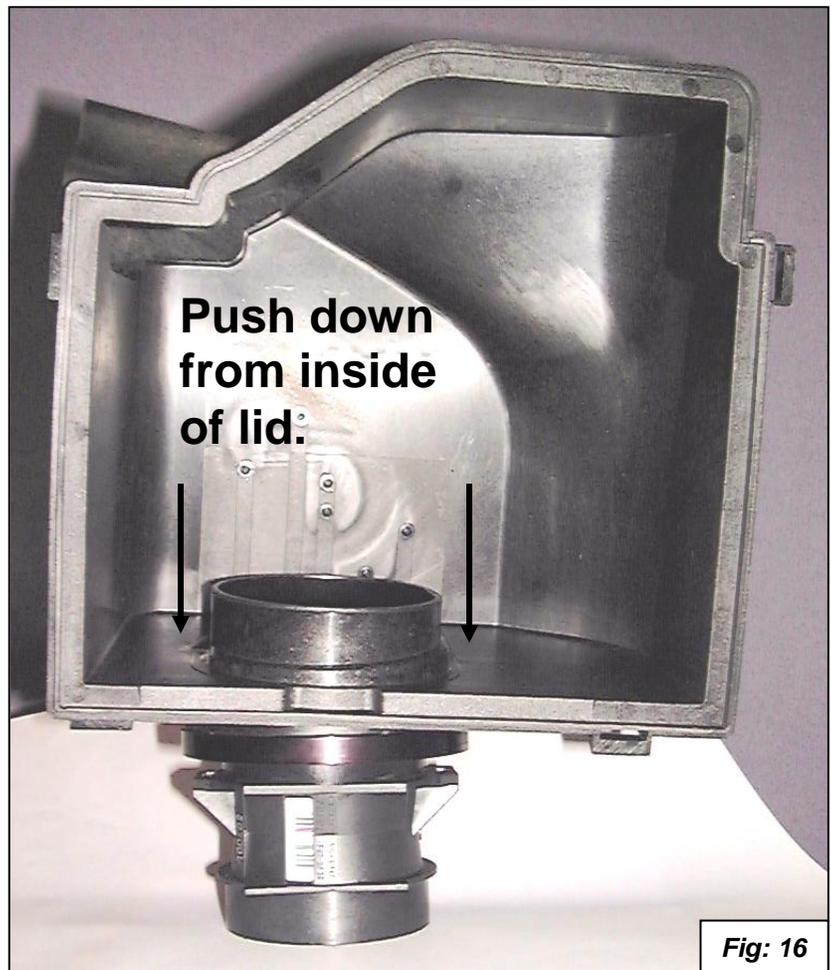
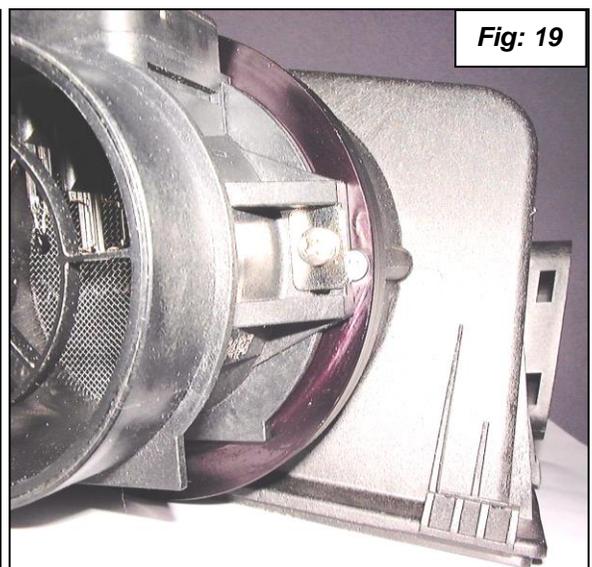
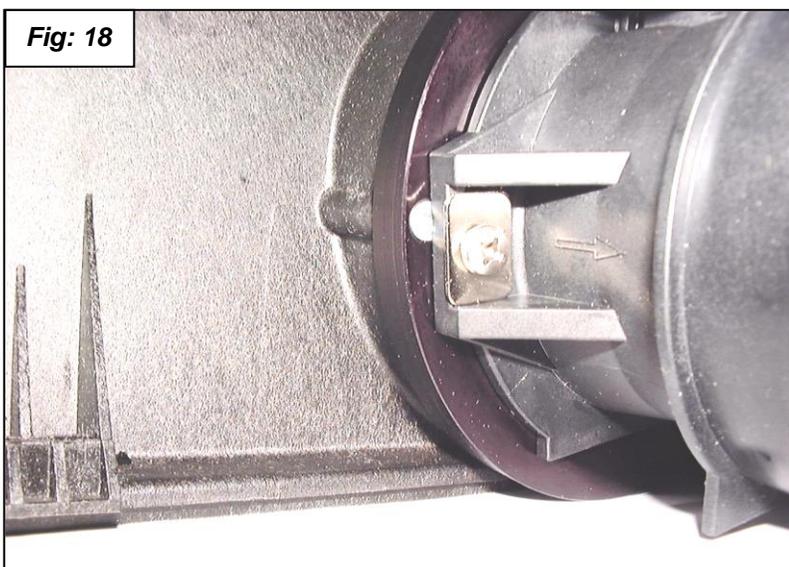
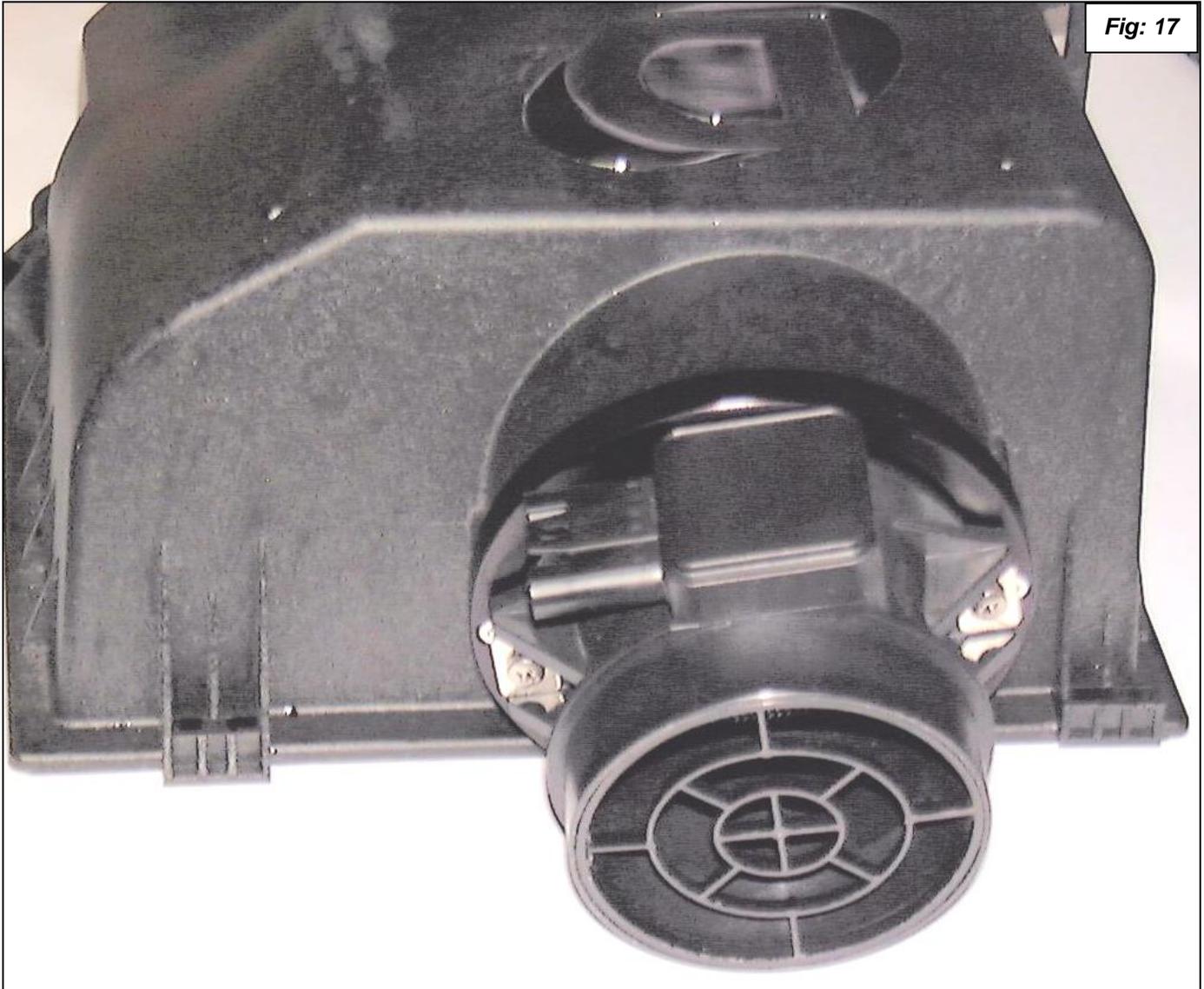


Fig: 16

- 24.

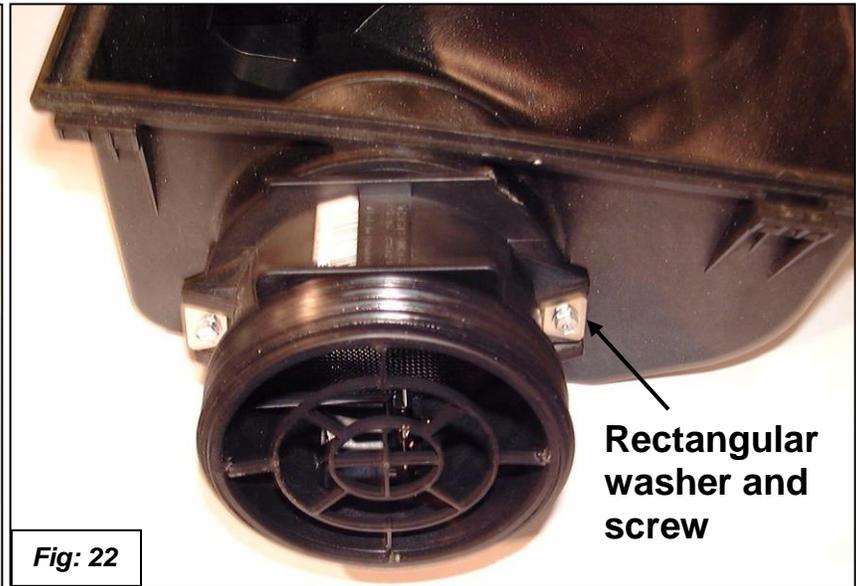
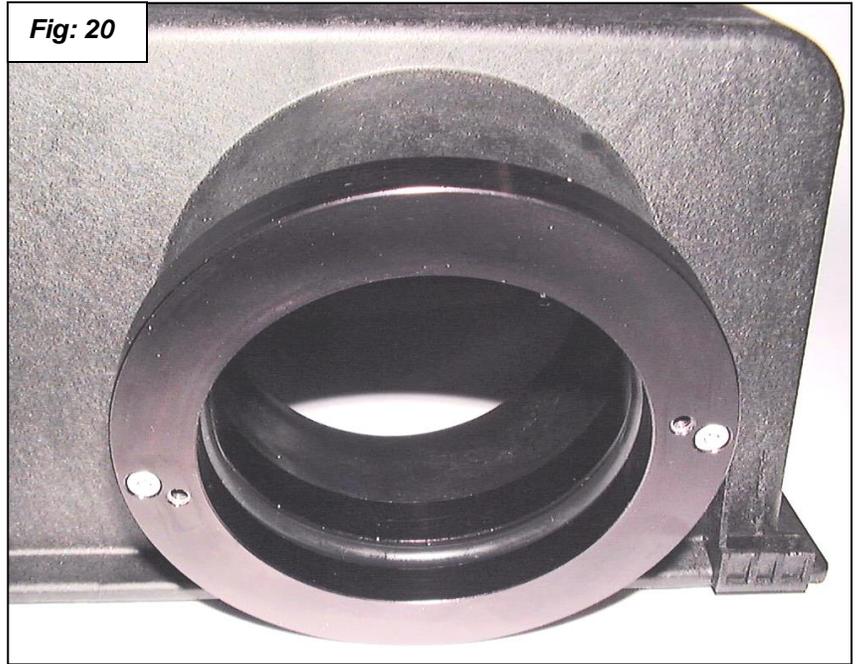
24. Secure the Air Mass Meter to the Dinan lid using the supplied Phillips head machine screws with attached lock washers and rectangular washers. See figure 17, 18 and 19.



25. Remove the adapter from the Dinan air box lid by removing the two torx screws. See figure 20. Discard the adapter and flat head torx screws.

26. Locate the bag with the gasket ring and two Phillips head self tapping screws in it.

27. Install the gasket ring onto the Air Mass Meter as shown in figure 21.



28. Install the Air Mass Meter into the Dinan lid using the supplied Phillips head self-tapping screws and rectangular washers. See figures 22 and 23.



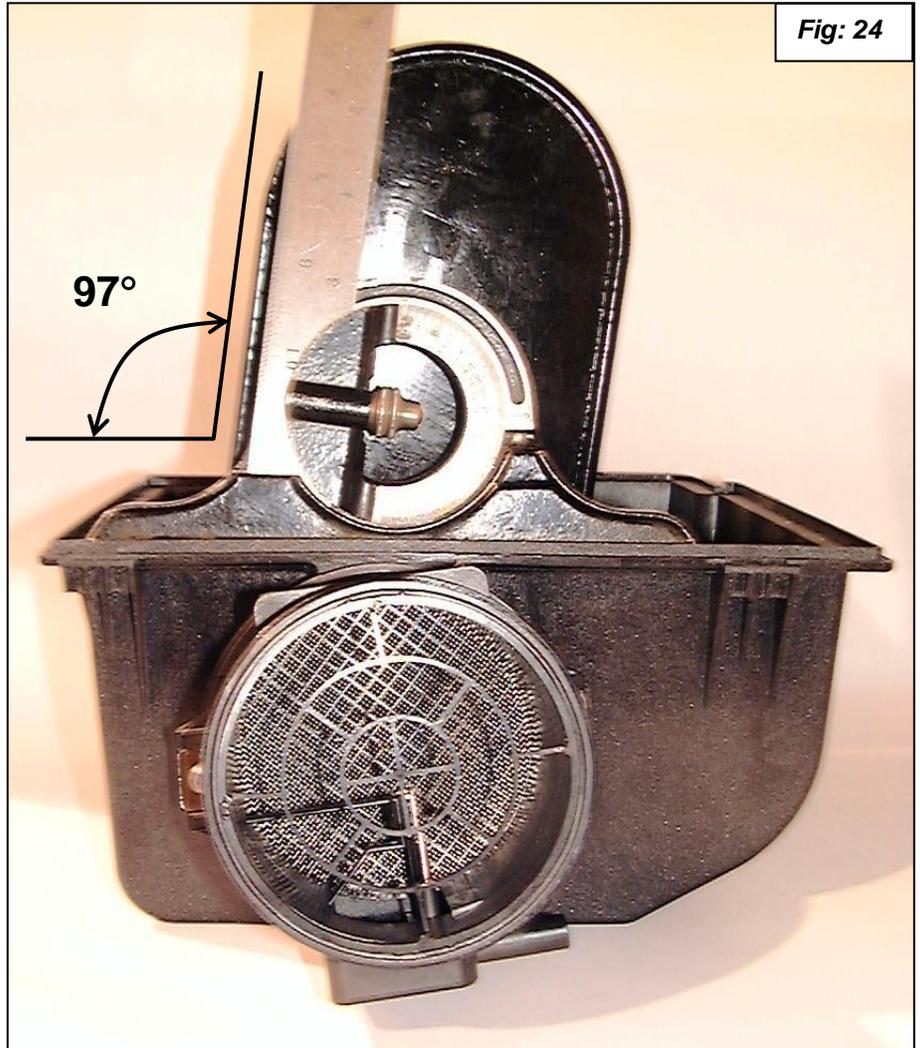
29. Install the filter onto the Dinan lid at a 97° angle and tighten clamp. See figure 24.

30. 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.

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

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

33. 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.

PARTS LIST

<u>Qty</u>	<u>Part Number</u>	<u>Description</u>
1	D763-0016	Hardware Kit
	Contains:	
2	#28	Hose Clamp
1	#56	Clamp
2	D671-0030	M4 Screw + Washer
2	D762-0016	Washer
2	D762-0039	Rubber Bellows
