



# SNORKEL

2023+ CHEVY COLORADO & GMC  
CANYON

## NEW PRODUCT

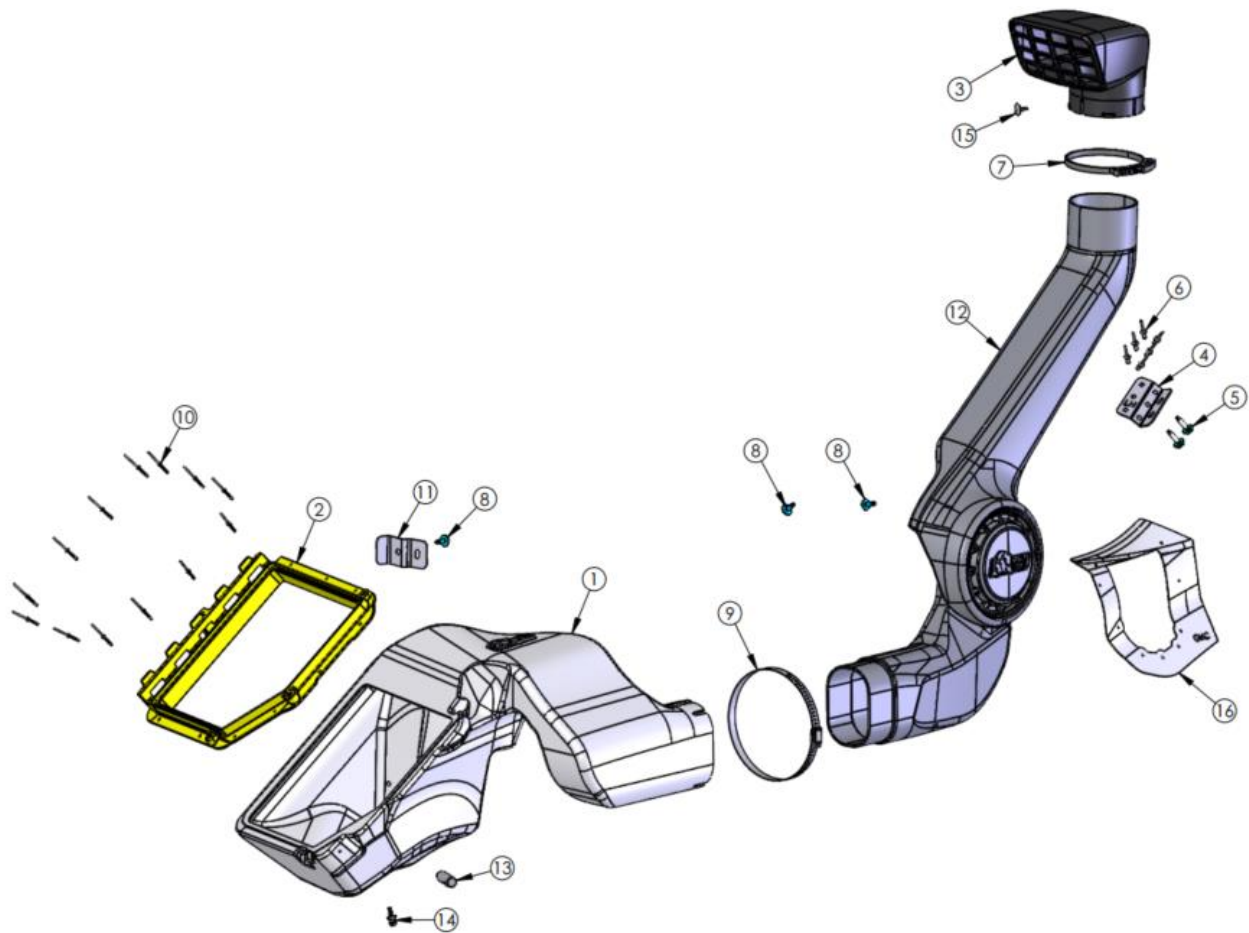
Please visit [www.aev-conversions.com](http://www.aev-conversions.com) to view the most current installation guide for this product.

This is a new product and we want to make sure that you receive the latest and most accurate information based on customer feedback, product revisions, and/or model year updates. We value customer feedback, so we encourage you to contact our Technical Support department if you have any suggestions on how to make the installation of this product easier or if you have any questions regarding the installation of this product. AEV's Technical Support can be reached by email at [tech@aev-conversions.com](mailto:tech@aev-conversions.com) or by giving us a call at (248)-926-0256.

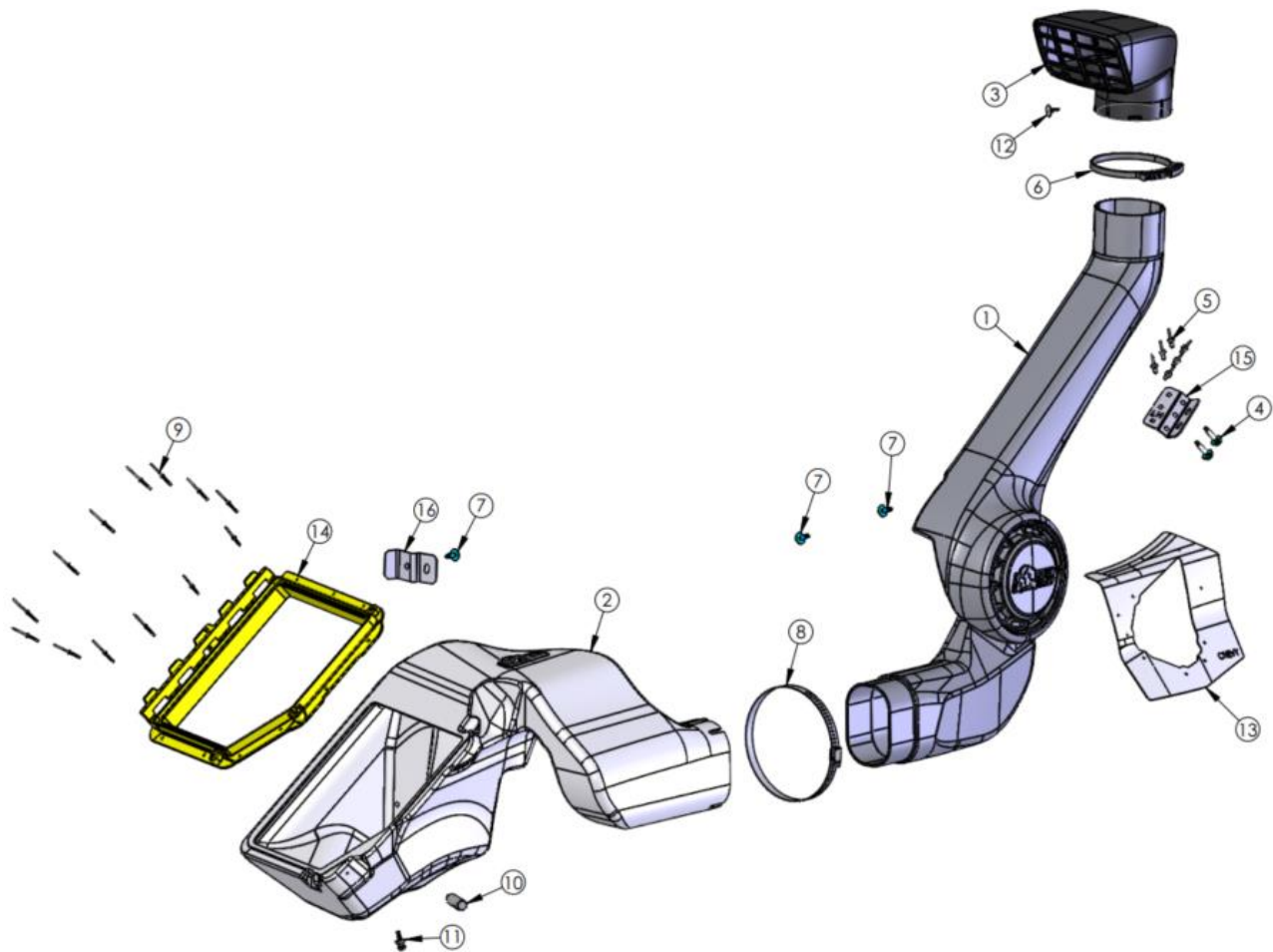
## **PLEASE READ BEFORE YOU START**

To guarantee a quality installation, we recommend reading these instructions thoroughly before beginning any work. These instructions assume a certain amount of mechanical ability and are not written nor intended for someone not familiar with auto repair.

<b>INCLUDED PARTS</b>	<b>QTY</b>	<b>REQUIRED TOOLS</b>
Snorkel Body	1	Electric Cut-off Wheel or
Lower Airbox	1	Air Bit Flexible Straight Edge
Hardware Kit	1	Center Punch
		De-burring Tool
		Touch-up Paint or Rust
		Inhibitor Rivet Tool
		Masking Tape
		Common Hand Tools



ITEM NO.	SW SERIAL #	PartNo	DESCRIPTION	QTY.
1	D047244	A32Z1000AA	LOWER BOX, 31XX-2 SNORKEL	1
2	D047247	A32Z1001AA	ADAPTER RING, 31XX-2 SNORKEL	1
3	D031625	AJKZ1018AA	AIR RAM, JK SNORKEL, 2ND GEN	1
4	D049630	A32Z1004AA	A-PILLAR BRKT, 31XX-2 SNORKEL	1
5	D029819	11570775	M6 X 1.0 X 25 PAN HEAD BOLT AND CONICAL WASHER ASM	2
6	97526A401	AEV97023AA	3/16" ALUMINUM RIVET BLACK (GRIP RANGE 0.126"-0.25")	6
7	9579K95	AEV97026AA	CLAMP, 4" AIR RAM, PLASTIC SNAP-GRIP	1
8	D042610	11519375	M6 X 1.0 X 16 HEX SCREW AND WASHER ASM	3
9	5415K87	AEV97027AA	HOSE CLAMP WORM-DRIVE, 9/16" WIDE BAND, 4 1/2"-6 1/2" CLAMP ID	1
10	97545A120	AEV97025AA	1/8" ALUMINUM RIVET FOR SOFT MATL (GRIP RANGE 0.02"-0.275")	13
11	D049678	A32Z1005AA	HARNESS BRKT, 31XX-2 SNORKEL	1
12	D048364	A32Z3000AA	MAIN BODY, 31XX-2 GMC SNORKEL	1
13	D052052	A32Z1006AA	INSULATOR DOWEL, 31XX-2 SNORKEL	1
14	D052059	A32Z1008AA	INSULATOR PIN, 31XX-2 SNORKEL	1
15	90221A118	P-AVO17664	CHRISTMAS TREE FASTENER, 11/16" HEAD DIA, 5/16" DIA HOLE	1
16	D051973	A32Z3001AA	FENDER TEMPLATE, 31XX-2 GMC SNORKEL	1



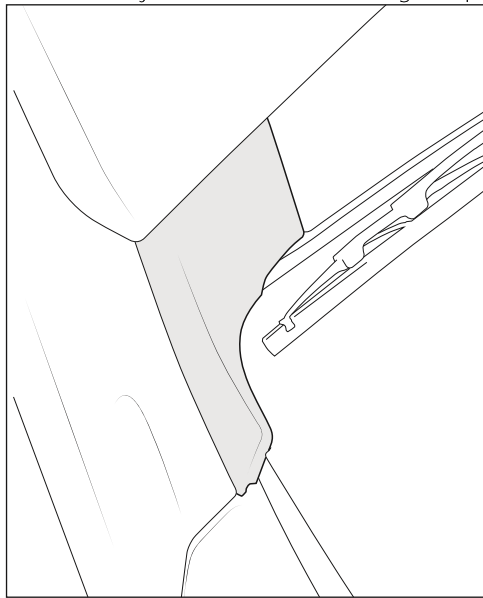
ITEM NO.	SW SERIAL #	PartNo	DESCRIPTION	QTY.
1	D047578	A32Z2000AA	MAIN BODY, 31XX-2 CHEVY SNORKEL	1
2	D047244	A32Z1000AA	LOWER BOX, 31XX-2 SNORKEL	1
3	D031625	AJKZ1018AA	AIR RAM, JK SNORKEL, 2ND GEN	1
4	D029819	11570775	M6 X 1.0 X 25 PAN HEAD BOLT AND CONICAL WASHER ASM	2
5	97526A401	AEV97023AA	3/16" ALUMINUM RIVET BLACK (GRIP RANGE 0.126"-0.25")	6
6	9579K95	AEV97026AA	CLAMP, 4" AIR RAM, PLASTIC SNAP-GRIP	1
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10	D052052	A32Z1006AA	INSULATOR DOWEL, 31XX-2 SNORKEL	1
11	D052059	A32Z1008AA	INSULATOR PIN, 31XX-2 SNORKEL	1
12	90221A118	P-AVO17664	CHRISTMAS TREE FASTENER, 11/16" HEAD DIA, 5/16" DIA HOLE	1
13	D051969	A32Z2001AA	FENDER TEMPLATE, 31XX-2 CHEVY SNORKEL	1
14	D047247	A32Z1001AA	ADAPTER RING, 31XX-2 SNORKEL	1
15	D049630	A32Z1004AA	A-PILLAR BRKT, 31XX-2 SNORKEL	1
16	D049678	A32Z1005AA	HARNESS BRKT, 31XX-2 SNORKEL	1

**AEV RECOMMENDS A/C EVACUATION BEFORE INSTALLATION OF SNORKEL TO PREVENT ANY DAMAGE TO A/C RETURN LINES. RE-CHARGE AFTER SNORKEL INSTALLATION IS COMPLETE.**

**BEFORE YOU BEGIN THE INSTALLATION, BE SURE TO CLEAN VEHICLE THOROUGHLY, INCLUDING THE ENGINE COMPARTMENT.**

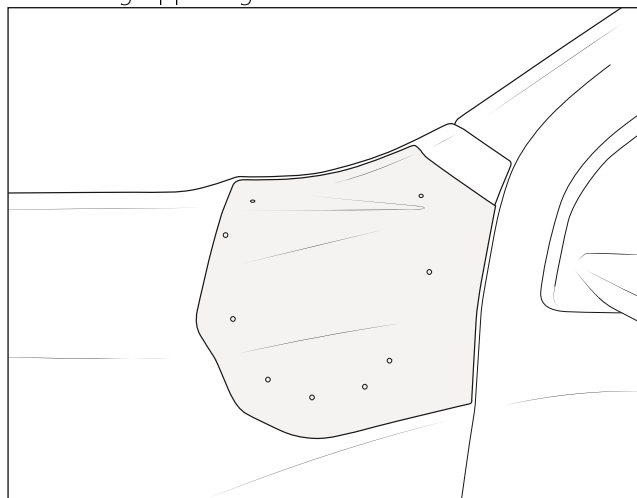
## I. VEHICLE PREPARATION

1. Lift vehicle and remove the driver side wheel and tire.
2. Remove the 17 M4-T15 torx screws and 1 push pin holding the wheel liner in place.
3. Remove the wheel liner and SAVE.
4. Using a suitable plastic trim tool, carefully release the air inlet grille panel extension clip (fig 1.).



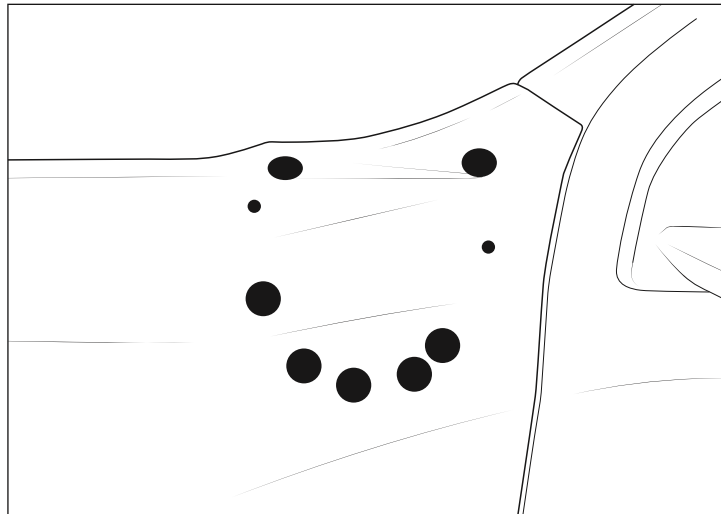
*Figure 1*

5. Align the supplied template along upper right side of fender and mark hole locations (fig. 2).



*Figure 2*

6. Remove template and center punch all 9 locations.
7. Drill out hole locations based on your vehicle:
  - A. CHEVY
    - i. Center punch and drill 1/16" pilot holes at each location.
    - ii. Drill #1 holes to 1" using a hole saw.
    - iii. Drill #2 holes to 5/16".
  - B. GMC
    - i. Center punch and drill 1/16" pilot holes at each location.
    - ii. Drill top two #1 holes to 1/2"
    - iii. Drill remaining #1 holes to 1" using a hole saw
    - iv. Drill #2 holes to 5/16"



*Figure 3*

8. Use painters tape to layout tangent lines between the larger holes (fig. 4).



*Figure 4*

9. Using an air saw or electric or air powered abrasive cut-off wheel, carefully cut on lines to make one large cut-out. NOTE: Be sure to wear proper safety equipment including gloves and eye protection. Always cover any exposed window glass or painted surface to protect from sparks.
10. Use touch-up paint or rust inhibitor on all bare metal edges.
11. Attach A-Pillar Bracket to A-Pillar (fig 5):
  - A. Using bottom edge of the A-pillar bracket, measure 9" (through center) of A-pillar and align bottom edge.
  - B. Mark holes and drill to 3/16"
  - C. Using the supplied 3/16" Aluminum Rivets attach A-Pillar Bracket to A-Pillar.

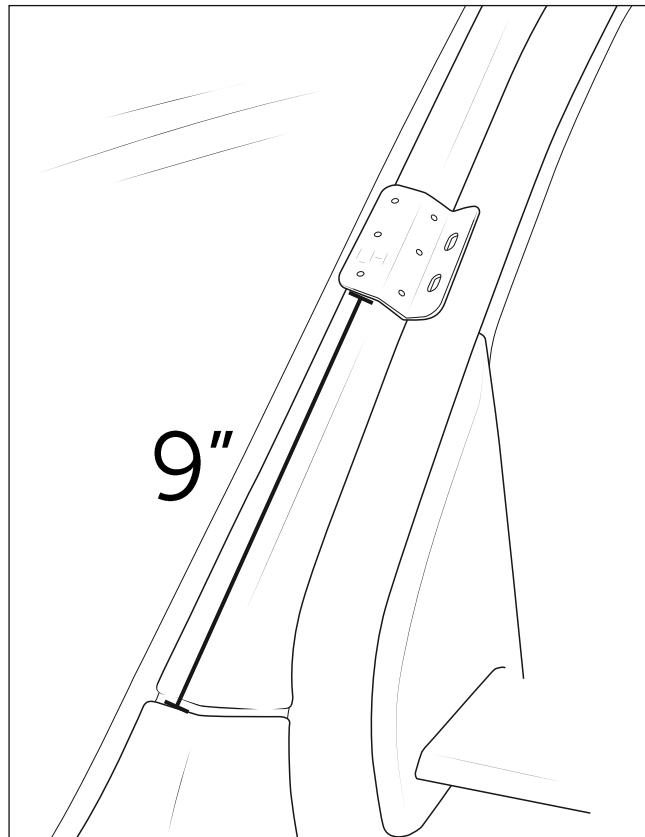


Figure 5

## II. DISASSEMBLY

12. Remove the driver side fender following the factory service manual for your vehicle. Save items for later re-install.

NOTE: Mask the driver's side door 4-6" in to avoid scratching.

A. Remove Tire and Wheel

i. [6] M22 or 7/8" Socket wrench

B. Remove Wheelhouse liner

i. [14] T15 socket (M4 bolts) + plastic clip

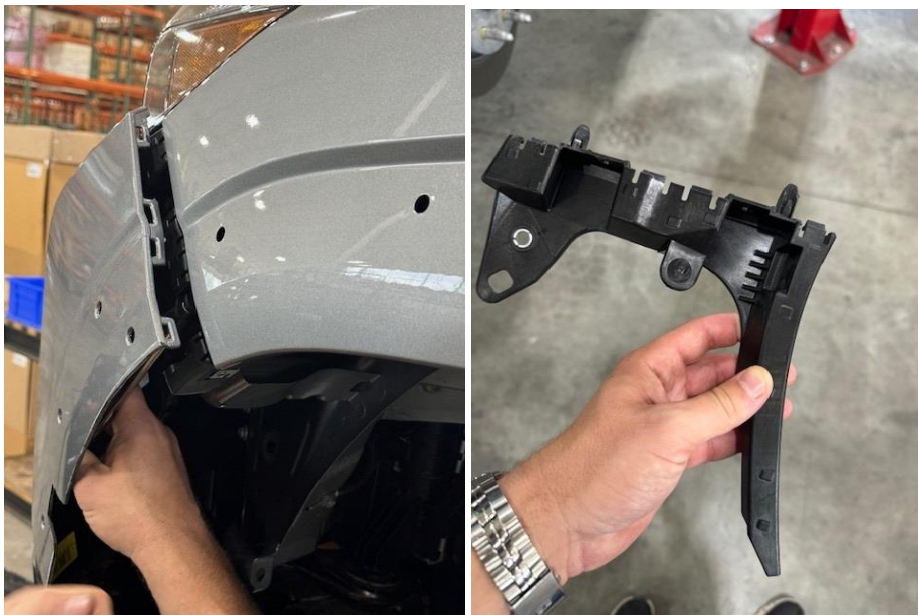
C. Remove Flare

i. [2] M7 socket (M4 bolts) + plastic clip and [20-26] retaining clips should come with flare off vehicle

1 7mm socket to backside of retaining clip can disengage through sheet metal

D. Detach Fender/Fascia Bracket (fig. 5 & 6)

i. [7] M7 bolts



*Figure 6 & 7*

E. Remove [6] Fender Bolts

i. T25 Socket (M8 Bolts)

F. Loosen TOP REAR WINDSHIELD Fender Bolt (fig. 8 & 9)

i. To prevent windshield breakage, place a protective cover over windshield at bolt location.

ii. Using a ball end torx driver, LOOSEN front fender bolt.



NOTE: Bolt does not have to be removed as hole is slotted



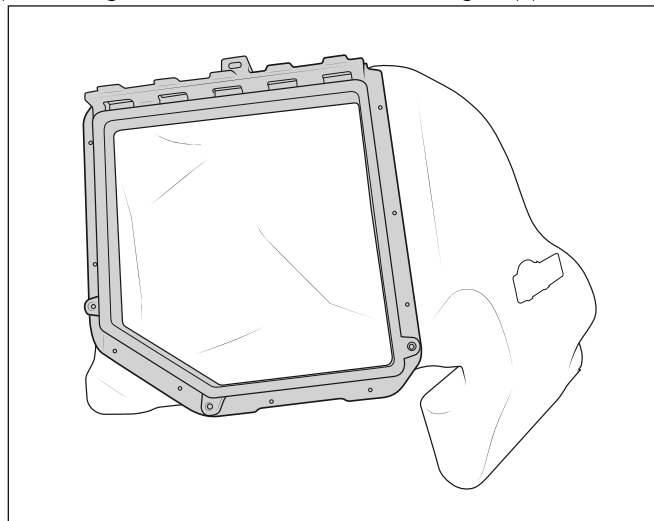
*Figure 8 & 9*

13. Disconnect A/C return line (metal line Self-connector, need to unlock by twist at connection point/ break in hose. NOTE: Be sure you properly discharged the AC.
14. Remove Airbox

### III. INSTALLATION

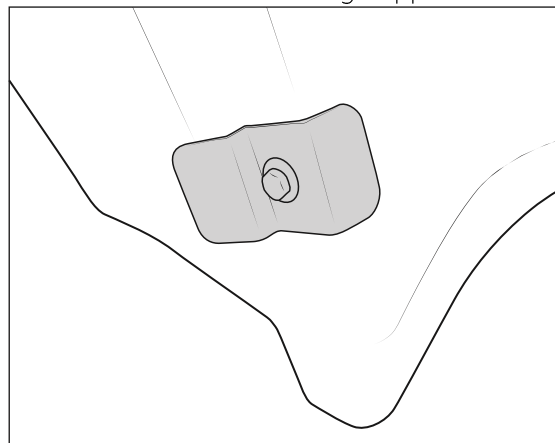
15. Assemble AEV 'Lower' Airbox to the factory Upper Airbox:

- A. Disassemble upper and lower airbox, keeping MAF sensor apart of upper airbox. SAVE the 3 self tapping screws needed for re-use
- B. Attach Airbox Adapter Ring to AEV Lower Airbox using supplied 1/8" rivets (fig. 10).



*Figure 10*

- C. Attach Harness Bracket to AEV Lower Airbox using supplied hardware (fig. 11).



*Figure 11*

- D. Screw in the supplied aluminum Insulator Dowel and fit with rubber grommet found on the factory airbox (fig. 12).

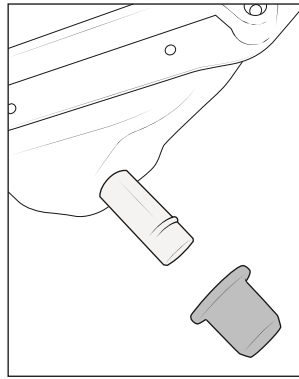


Figure 12

E. Attach Insulator Pin to AEV lower air box (fig. 13).

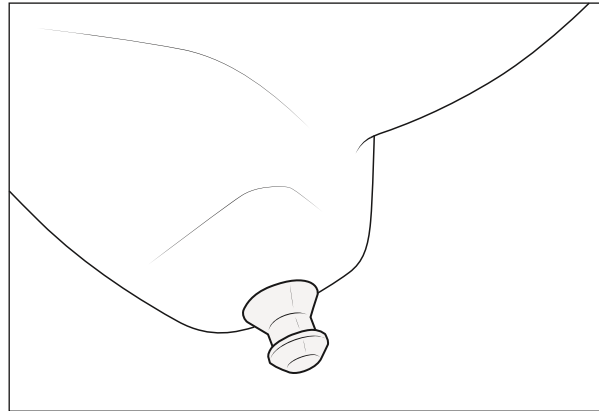


Figure 13

16. Install Airbox into Vehicle (fig. 14):

- A. Insulator Pin/Dowel/18mm hole are stabilizing positions to load airbox on.
- B. Wraps over 'feasm'/channel female end exposed with fender off.
- C. Electric harness attaches to Harness Bracket in rear of lower airbox.

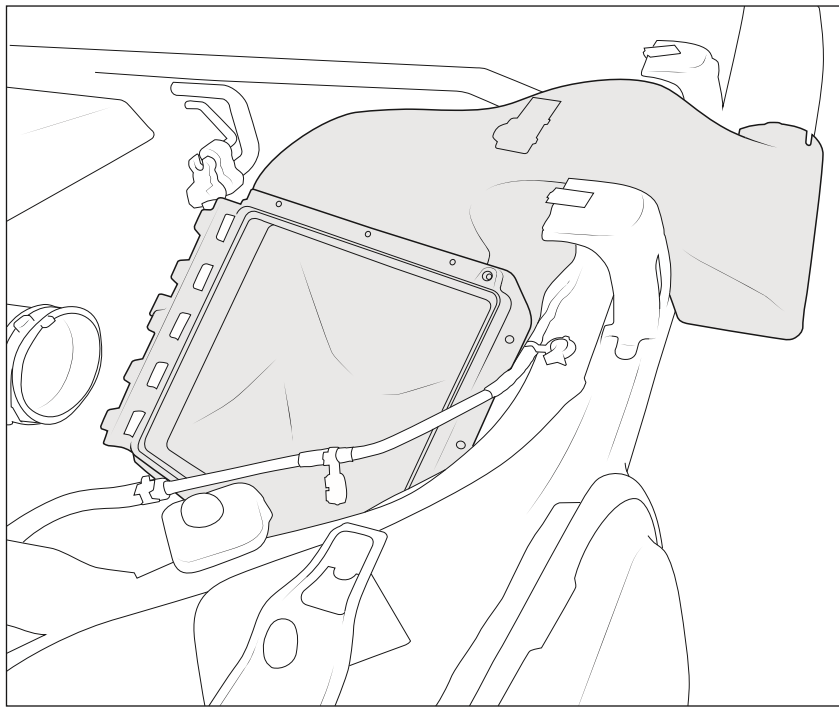


Figure 14

D. Re-install air filter and Attach factory upper airbox to AEV Lower Airbox using 3 self-tapping screws from disassembly. Re-connect MAF sensor, AC lines, and Intake hose (fig. 15).

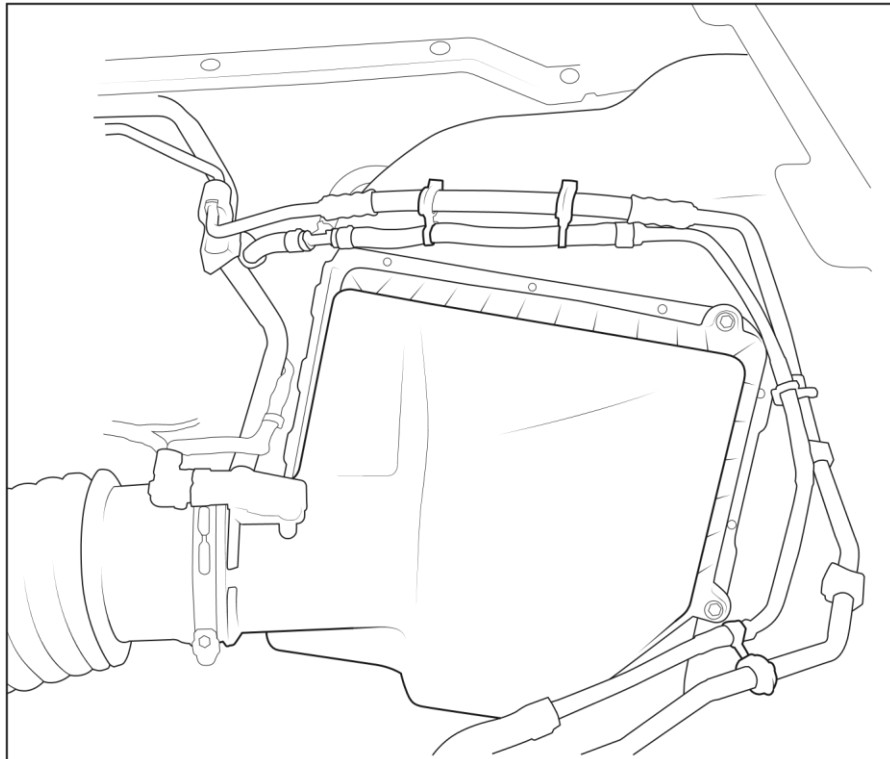


Figure 15

17. Install Snorkel Body onto Fender using supplied hardware.

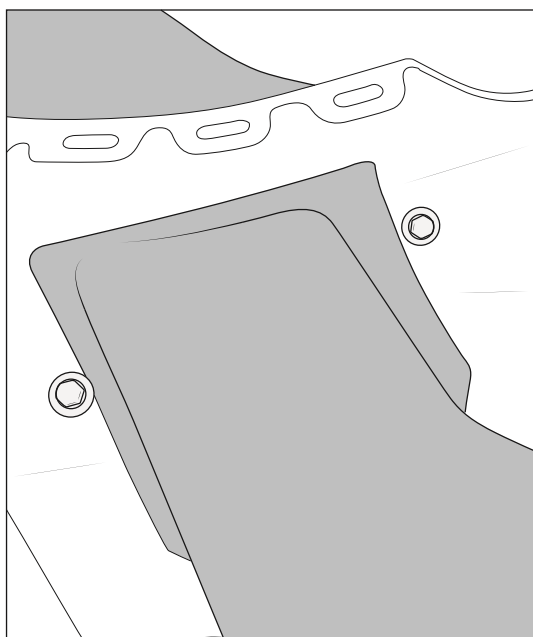


Figure 16

18. Re-Install Fender with Snorkel Attached (additional 3rd person might help ease installation).

Align male and female openings of the snorkel body and AEV airbox.

- B. Use the supplied Hose Clamp to secure connection.
- C. Using two M6x1.0x16mm bolts and washers, attach upper main body to A-Pillar Bracket (fig. 17).
- D. Carefully Re-attach fender, mindful of driver side door.

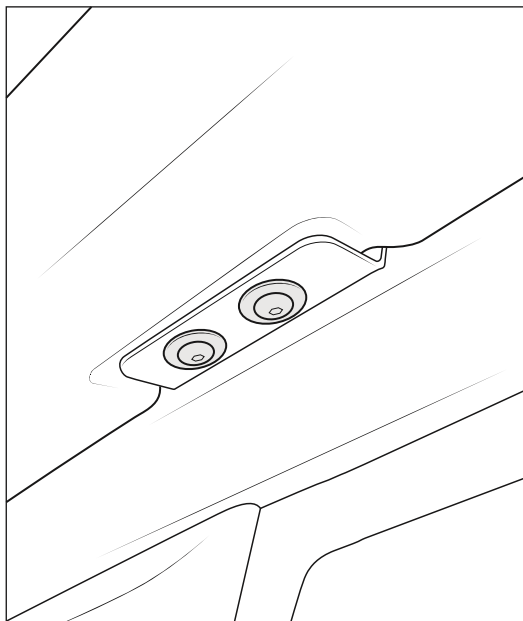
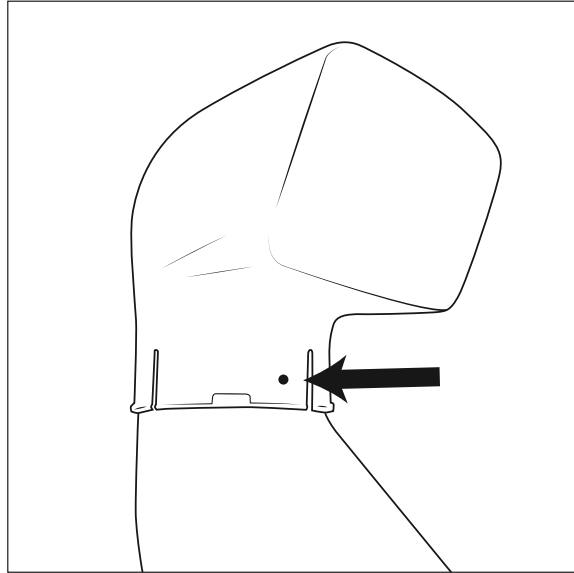


Figure 17

19. To install Air-Ram, slide the supplied hose clamp over the Snorkel body.
20. Attach the Air Ram and adjust so it is forward facing.
21. Mark the hole location on the Snorkel Body and drill a 5/16" hole (fig. 18).



*Figure 18*

22. Install push pin.
23. Slide the hose clamp up around the Air Ram and tighten.