

AMS NISSAN Z INTAKE

INSTALL INSTRUCTIONS

Nissan Z 2023+

Introduction ///

The goal of AMS Performance is to provide the highest quality, best performing products available. By utilizing research and development, and rigorous testing programs AMS Performance will never compromise the quality or performance of our products. In addition, AMS Performance will only provide the finest customer service offering only parts and advice that are in the best interests of the customer. AMS Performance was built on a foundation of integrity. This is who we are. This is what you can count on.

A vehicle modified by the use of performance parts and tuning may not meet the legal requirements for use on public roads. AMS Performance makes no claims of compliance unless otherwise stated on a per-product basis. Use or installation of performance parts and tuning may adversely affect the drivability and reliability of your vehicle, and may also affect or eliminate your insurance coverage, factory warranty and new OEM part warranty. There is no stated or implied guarantee by AMS of continued OEM vehicle warranty, insurance coverage, or emissions compliance, due to the stress placed on your vehicle by performance parts and our inability to monitor its use, tuning or modification.

These instructions are not intended to be a comprehensive guide for installation as there are many variables that may affect your particular vehicle, including but not limited to model year differences, sub-model/trim/optional equipment differences, the presence of non-OEM parts, or other modifications that may have previously been completed. A basic understanding of automotive parts and systems and novice mechanical skills should be all that is necessary for installation, but certain circumstances may necessitate professional installation.

AMS Performance is committed to providing quality support for our products. If you are in need of technical support, installation help, or a replacement component, our Customer Service Team is available directly via telephone at 847-709-0530, or digitally via the contact form linked here: amsperformance.com/support

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DISASSEMBLY AND REMOVAL ///

1. On the drivers side, release the harness clip from the air box and remove the two bolts (fig 1)

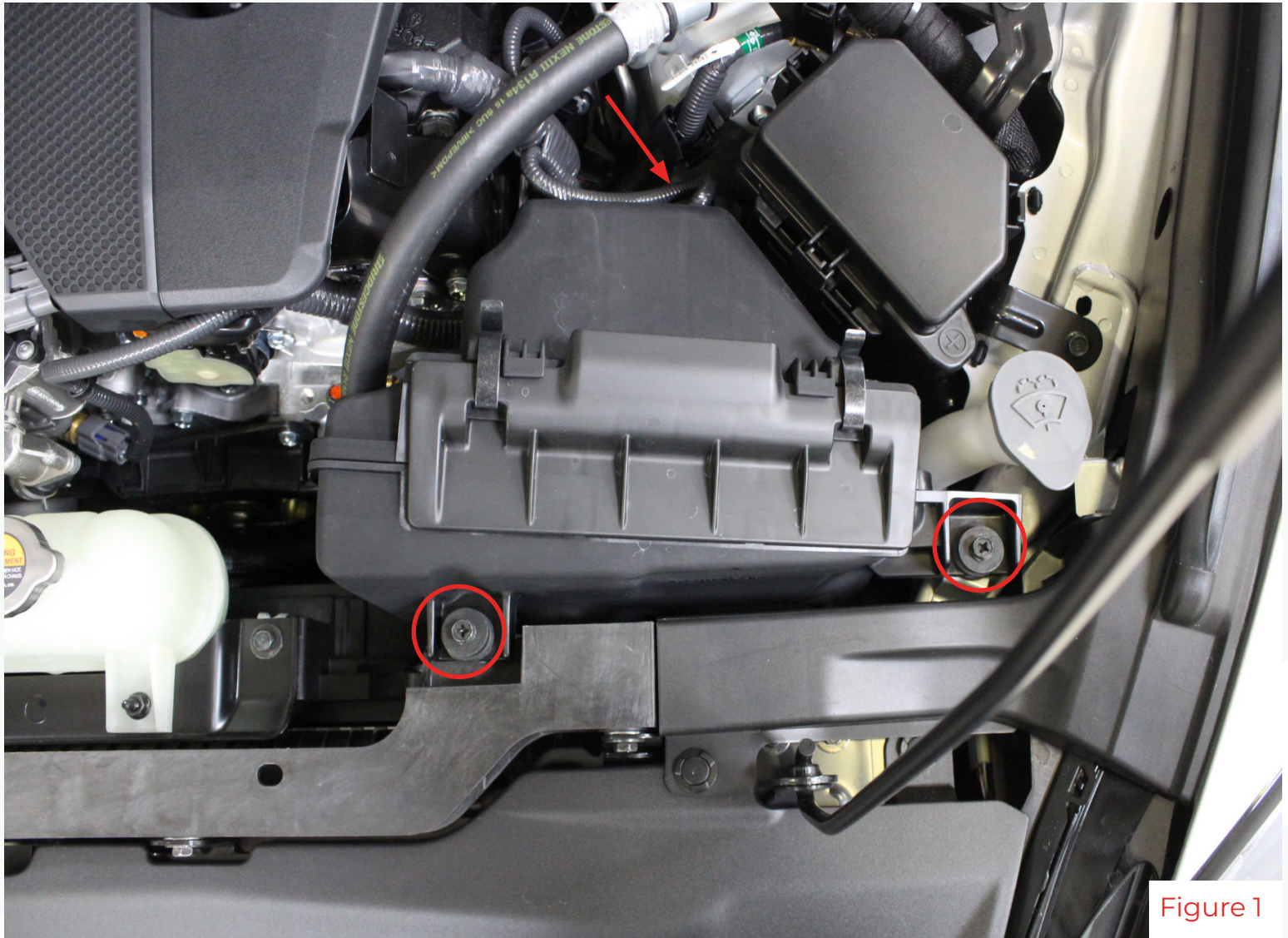


Figure 1

2. To remove the airbox you will need to release the retainer spring on the inlet coupler. There are two detents for the spring to rest on. The easiest way is to use two flat blade screw drivers to hold each side of the spring. Once the spring is in the released position the airbox should slide right out with ease. If it won't, then the spring is still engaged. See figures 2 and 3 of the airbox removed for a better look.



Figure 2

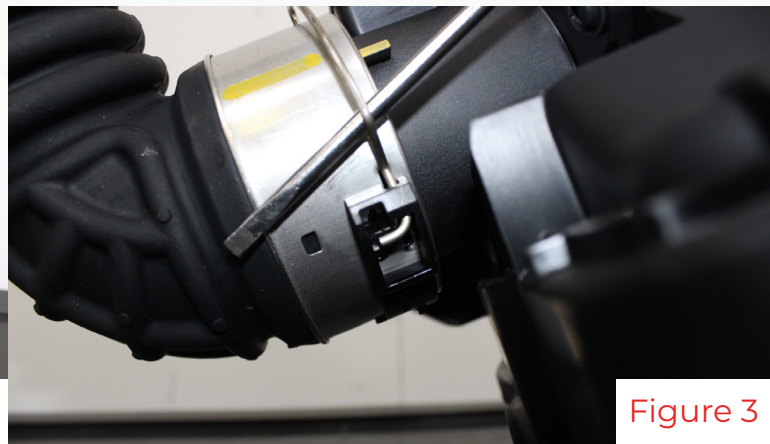


Figure 3

3. Lift the airbox out and disconnect the maf sensor(fig 4). Set the airbox aside for now.

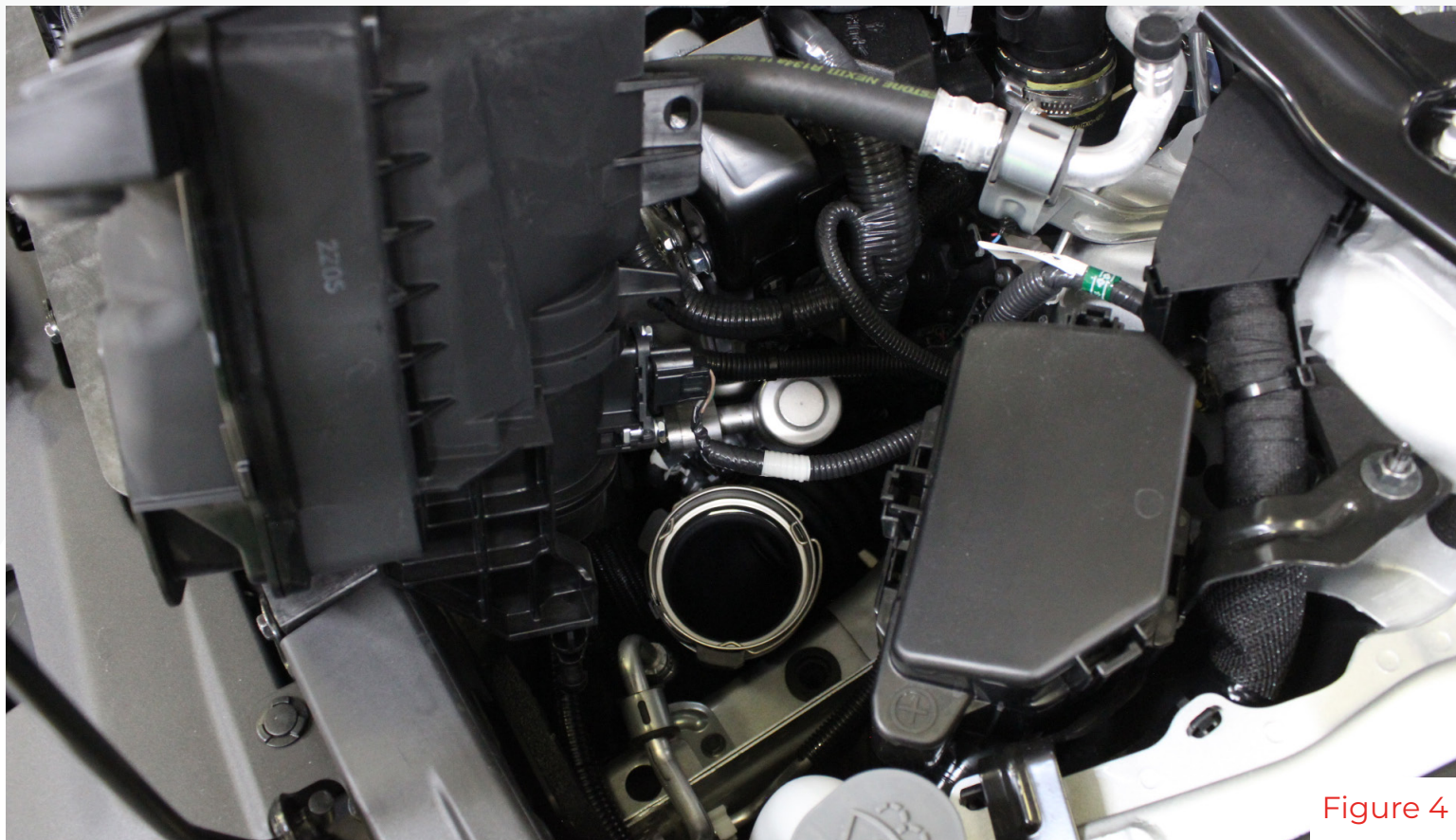
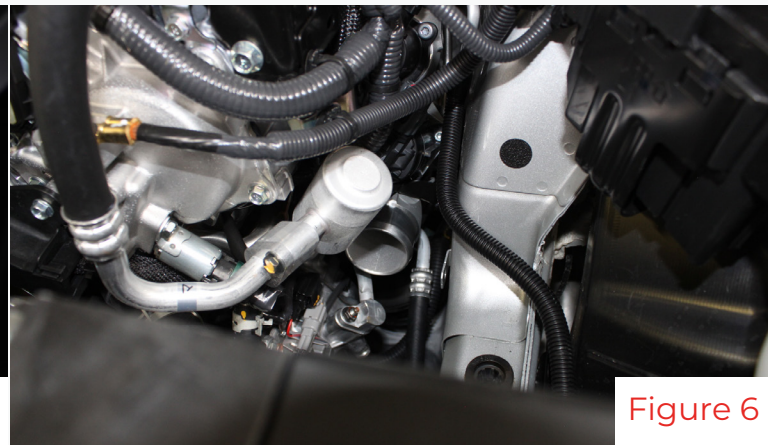
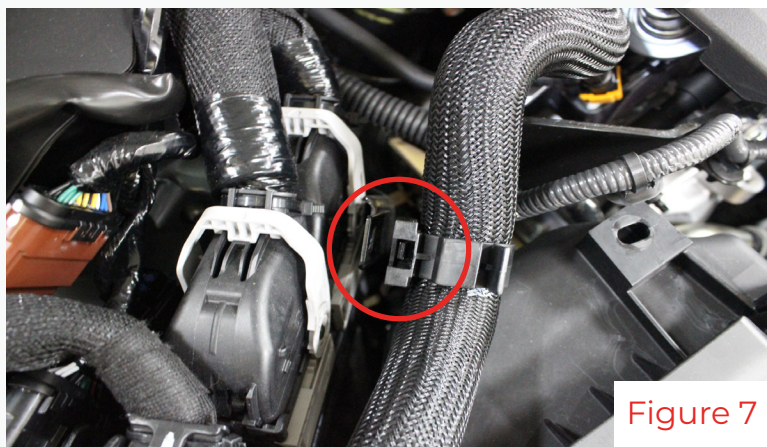


Figure 4

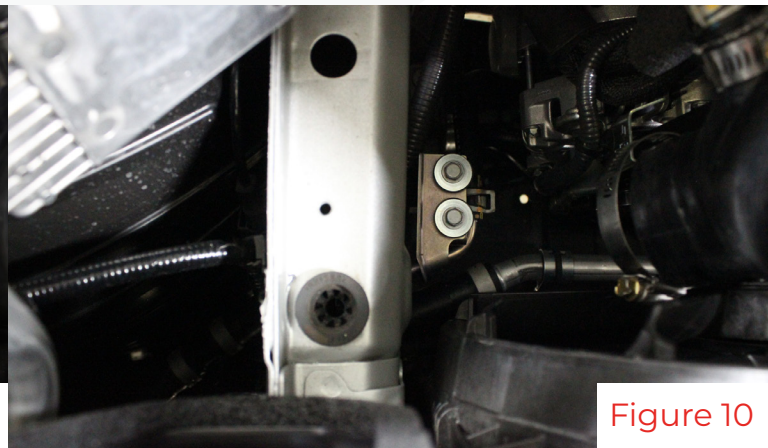
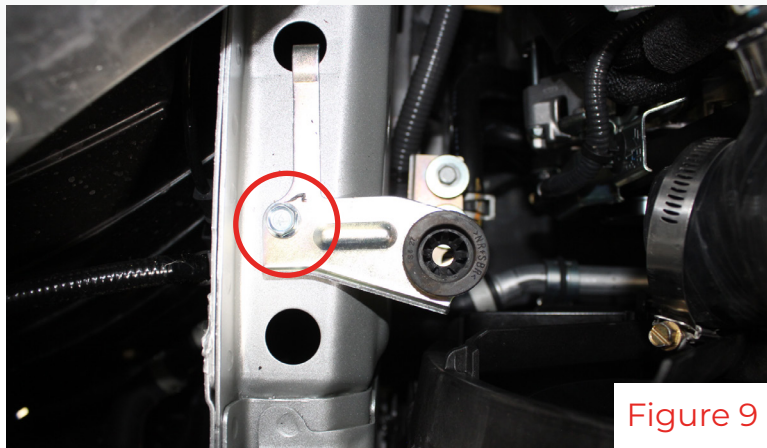
4. Locate and loosen the clamp on the turbo inlet. Remove and set aside(fig 5 & 6).



5. Repeat the same steps on the passenger side. The passenger side coupler has a PCV hose on it that will need to be disconnected before removal(fig 8). It may be helpful to undo the hose retainer by the ecu(fig 7).



6. Remove the M6 bolt and take the grommet out of the bracket(fig 9). Install the grommet into the forward most hole in the frame rail(fig 10). The bracket will not be reused.



7. Remove the plastic barb fitting from the factory coupler(fig 11 & 12).



Figure 11



Figure 12

8. Remove the MAF sensors from the airboxes and set them with the plastic fitting(fig 13 & 14).



Figure 13

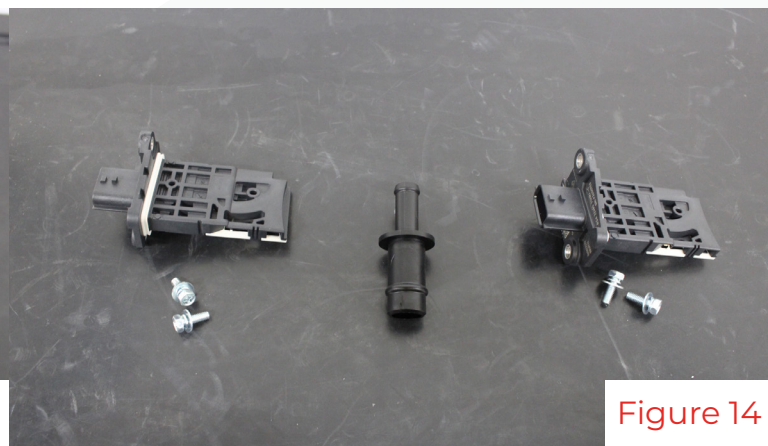


Figure 14

9. Remove the metal grommets from both airboxes and set aside(fig 15 & 16).



Figure 15



Figure 16

10. Install the plastic fitting into the provided silicone with a #10 clamp(fig 17) and the MAF sensors into the AMS MAF housings reusing the oem hardware. Be sure to match the arrows on the MAF housing and sensor (fig 18 & 19).

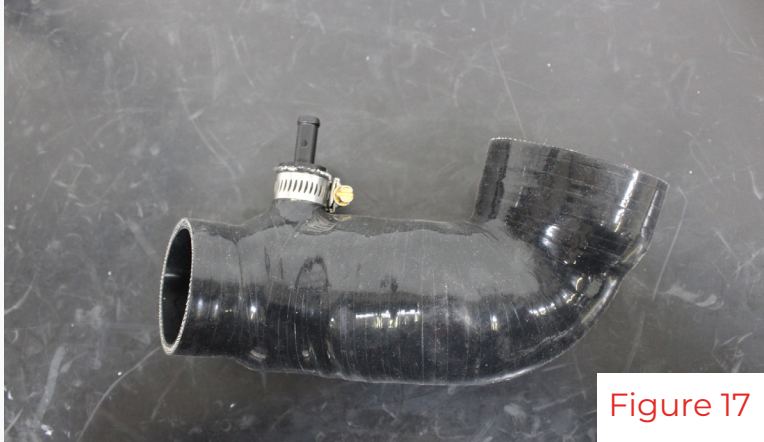


Figure 17



Figure 18

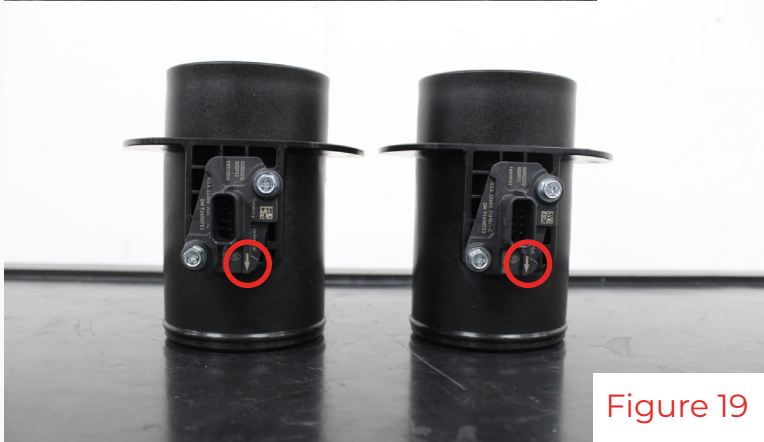


Figure 19

11. Locate the brackets and stanchions(fig 20). Assemble the stanchions onto the brackets and tighten(fig 21).



Figure 20

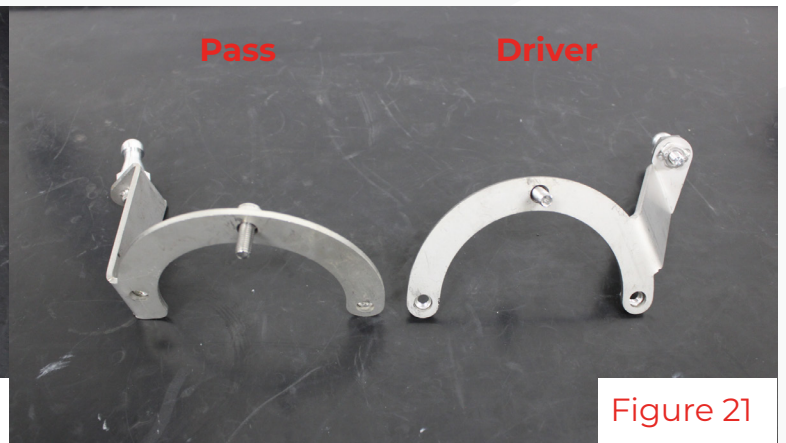


Figure 21

12. The driver airbox will have the opening on the right(arrow fig 22). Using the bracket, MAF housing, lower box and hardware, assemble the airbox in order, bracket then MAF housing and then airbox(fig 22-24)..



Figure 22



Figure 23

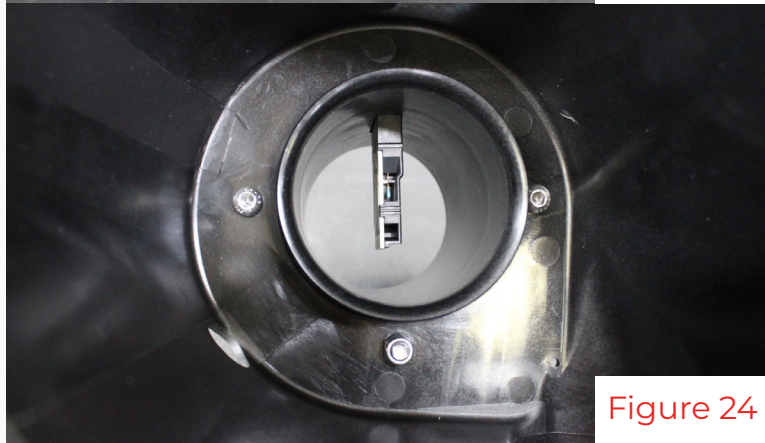


Figure 24

13. Repeat the previous step to assemble the passenger side(fig 25 & 26).

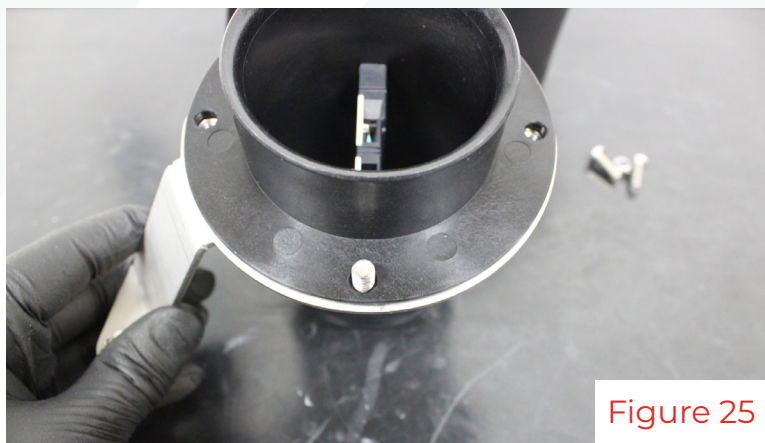


Figure 25

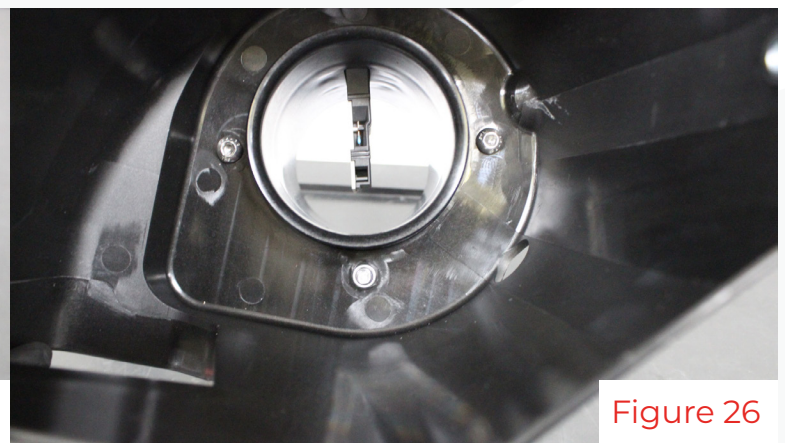


Figure 26

14. Continuing with the passenger side, locate the passenger silicone from step 9 and a #32 clamp. Using figures 27 & 28 position the clamp accordingly, reconnect the PCV hose and install it on the turbo inlet. Leave it loose for clocking in the next step.

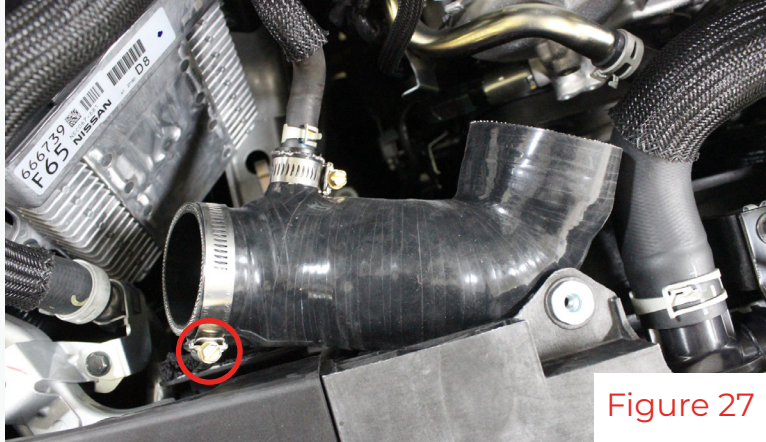


Figure 27

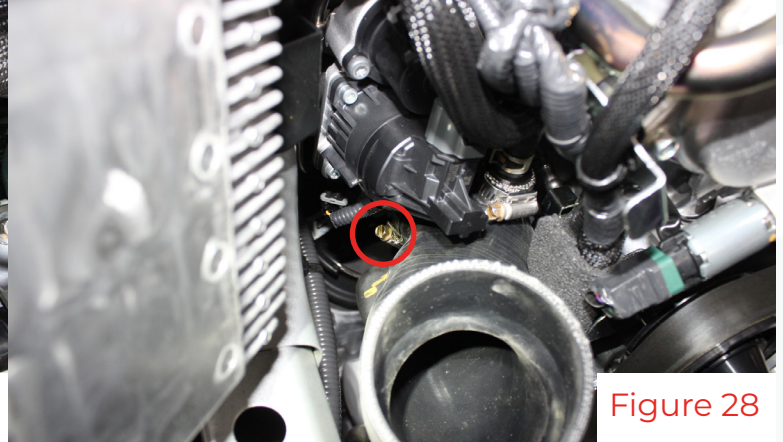


Figure 28

15. Position the passenger airbox over the silicone and align the stanchion over the grommet. Clock the silicone until the airbox and silicone are properly aligned. Tighten the clamp on the turbo inlet(fig 29).

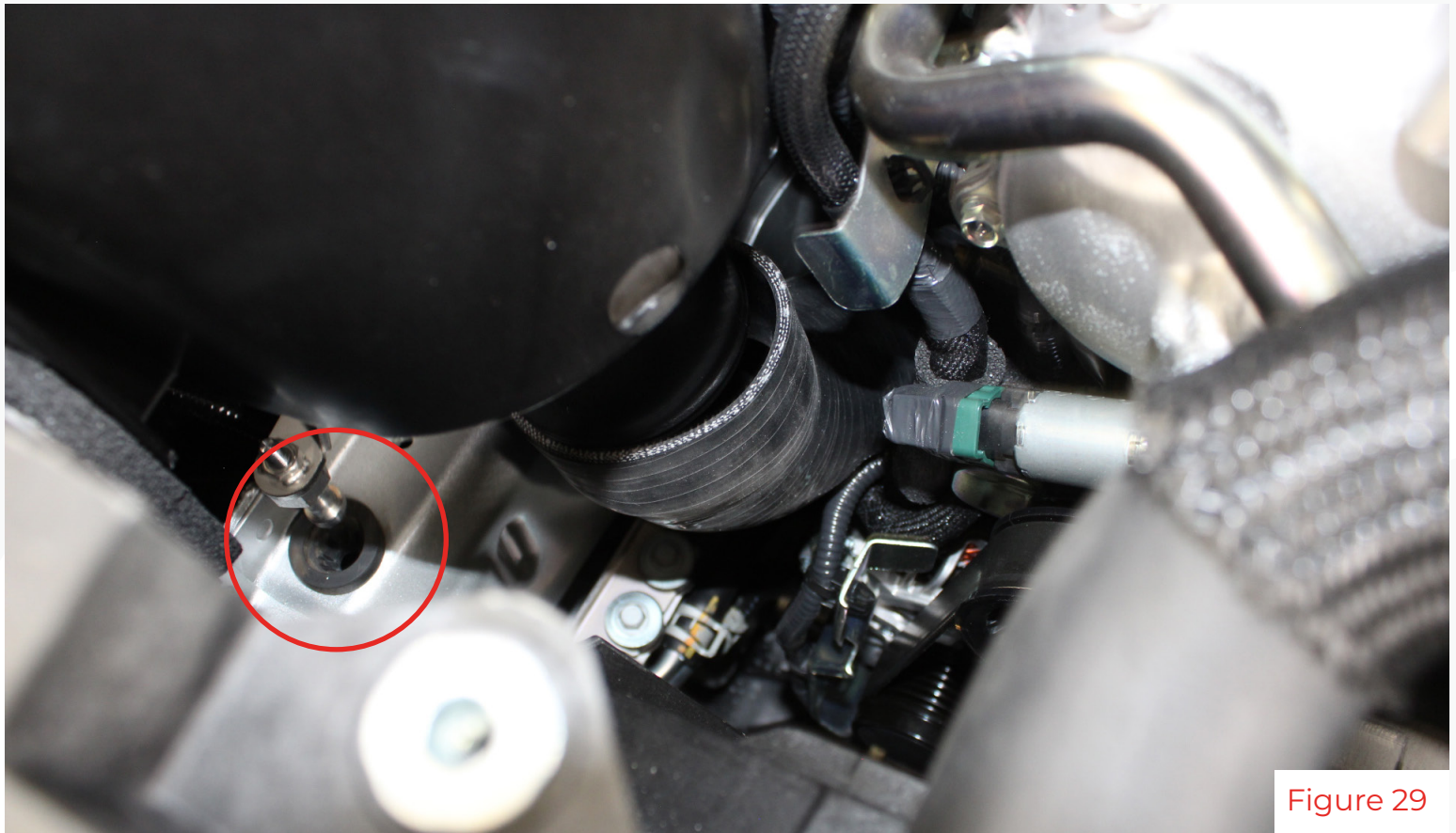


Figure 29

16. Locate the #48 clamp and position it on the silicone as seen in fig 30. Then, plug in the MAF sensor and clip the harness into the mounting tab (fig 31). Push the airbox into position in the grommet and make sure the silicone is fully seated. Tighten the clamp(fig 32).

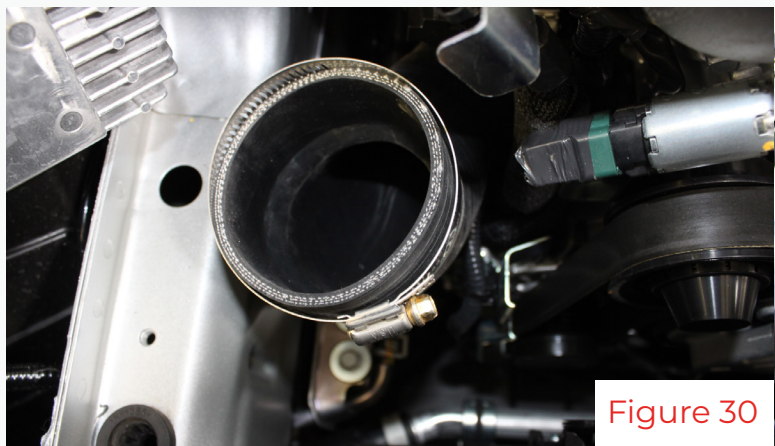


Figure 30

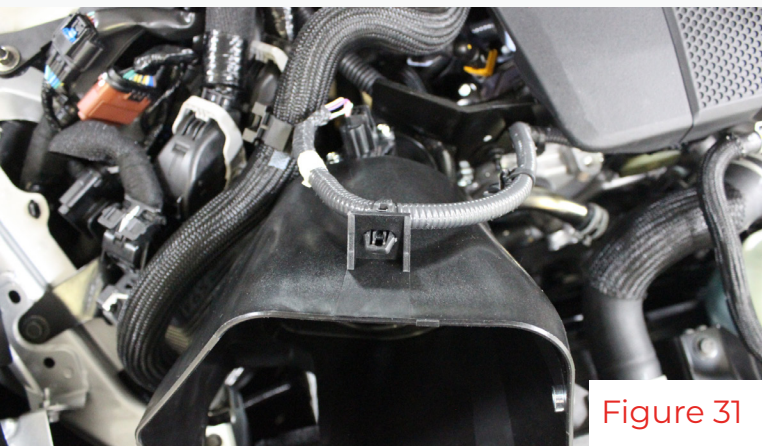


Figure 31



Figure 32

17. Using one of the provided air filters, position the clamp as shown(fig 33) so it can be tightened through the hole in the lower airbox (fig 34).



Figure 33

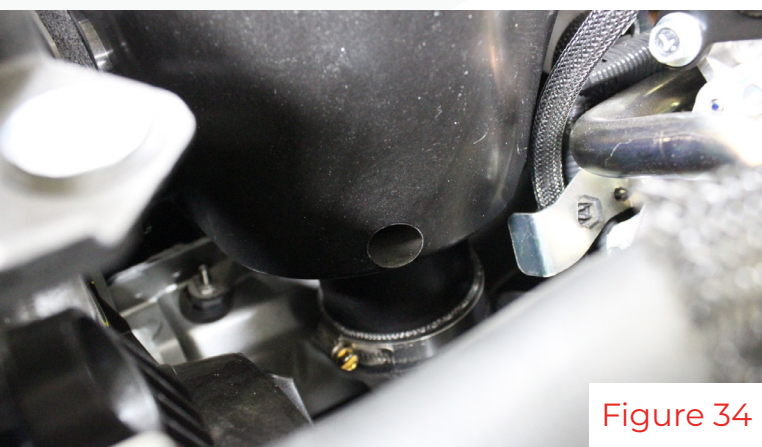
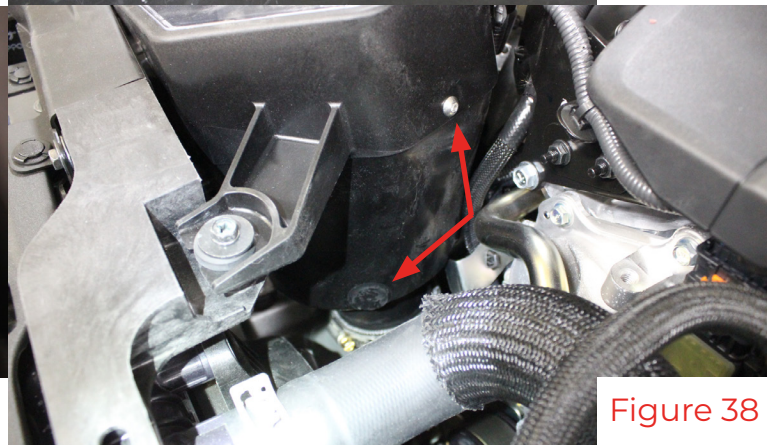


Figure 34

18. Install the grommets from step 9 into the airbox tops. Locate the passenger side lid, plastic plug and M6 button head bolt(fig 35 & 36). The airbox top installs using the small alignment pin and bolt. Align the top onto the lower and the pin should snap into place(fig 37). Install the bolt and plug(fig 38).



19. Reinstall the factory air box bolts and reattach the hose on the retainer(fig 39 & 40).



20. Gather the drivers side silicone and #32 clamp and position it on the silicone as shown in fig 41. Install it on the turbo but leave it loose for clocking(fig 42).



Figure 41

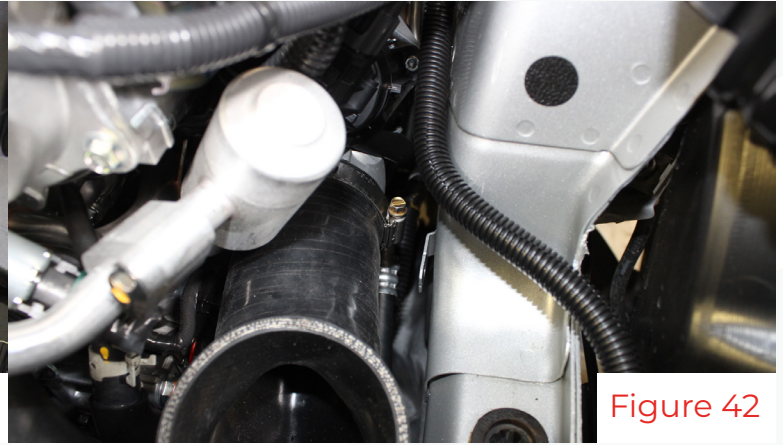


Figure 42

21. Tighten the turbo inlet clamp(fig 43) and then position the #48 clamp as shown in fig 44.



Figure 43



Figure 44

22. Repeat steps 16-19 to complete the installation of the AMS Z Intake.



23. Clean a flat visible surface under the hood and affix the enclosed CARB EO sticker for SMOG purposes.