

AMS NISSAN Z FUEL FILTER

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 ///

If you are also installing an AMS Z Flex Fuel Kit please follow those instructions first.

If you already followed the AMS Flex Fuel Instructions and it told you to come here, skip to step 11.

1. Starting with the top side, remove the front half of the engine cover(fig 1 & 2)



Figure 1



Figure 2

Note: If an AMS Flex Fuel kit is already installed, skip to step 5. Otherwise continue with step 2.

2. Unclip the harness from the bracket(arrow fig 3) and remove two bolts holding the bracket near the High Pressure Fuel Pump(circled fig 3). Remove the bracket(fig 4).

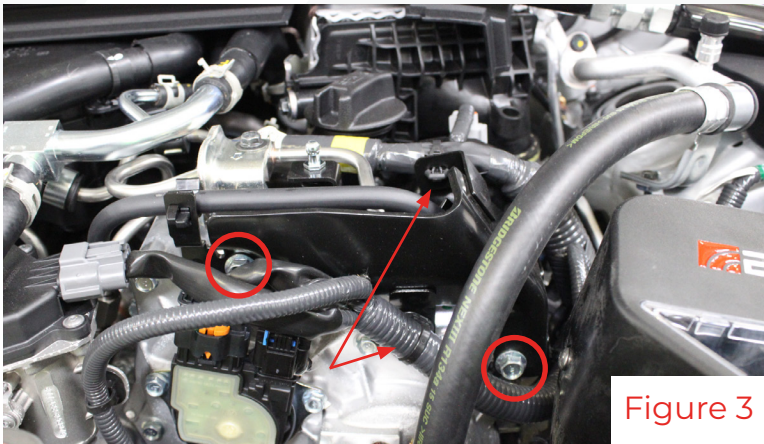


Figure 3



Figure 4

3. Remove the fuel line bracket(fig 5 & 6).

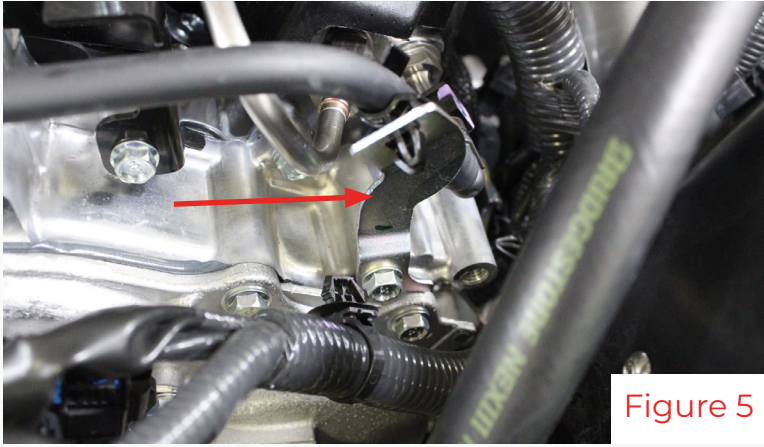


Figure 5

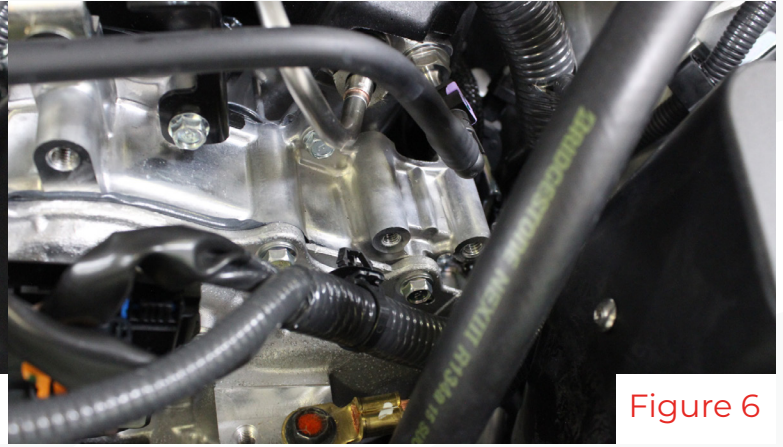


Figure 6

4. Release the purple clip and disconnect the fuel line from the HPFP(fig 7 & 8).

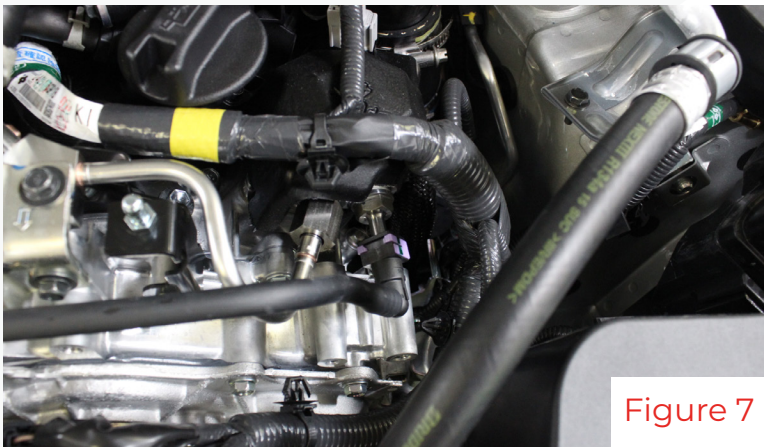


Figure 7

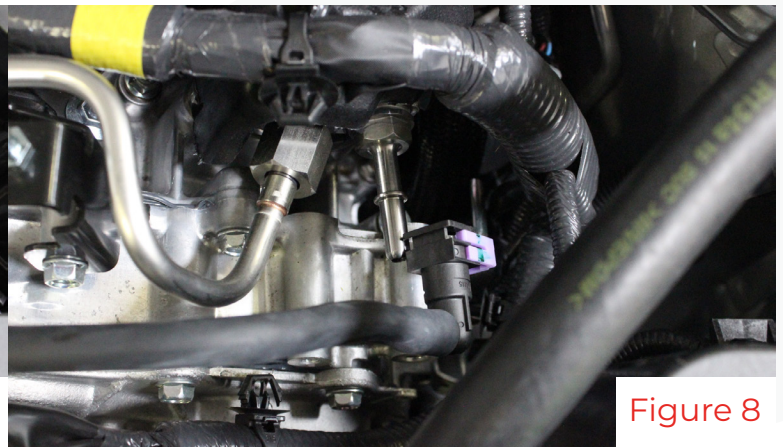


Figure 8

5. On the other side of the engine, unclip the harness and remove the bracket near the fuel pressure damper (fig 9 & 10).

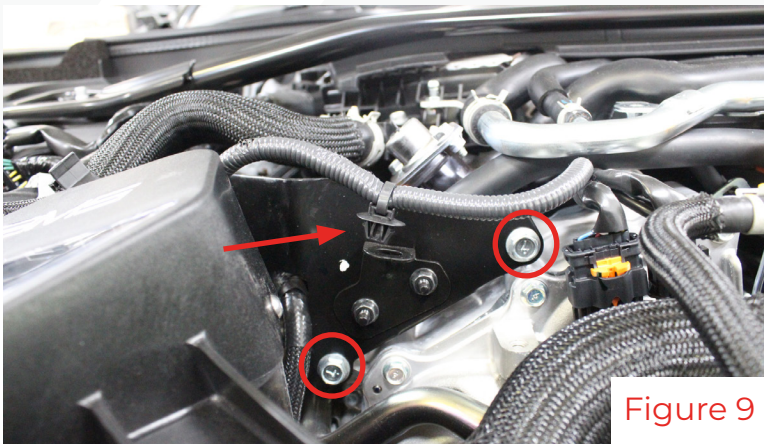


Figure 9



Figure 10

6. Remove the two bolts under the water line holding the coolant crossover pipe to the manifold(fig 11).

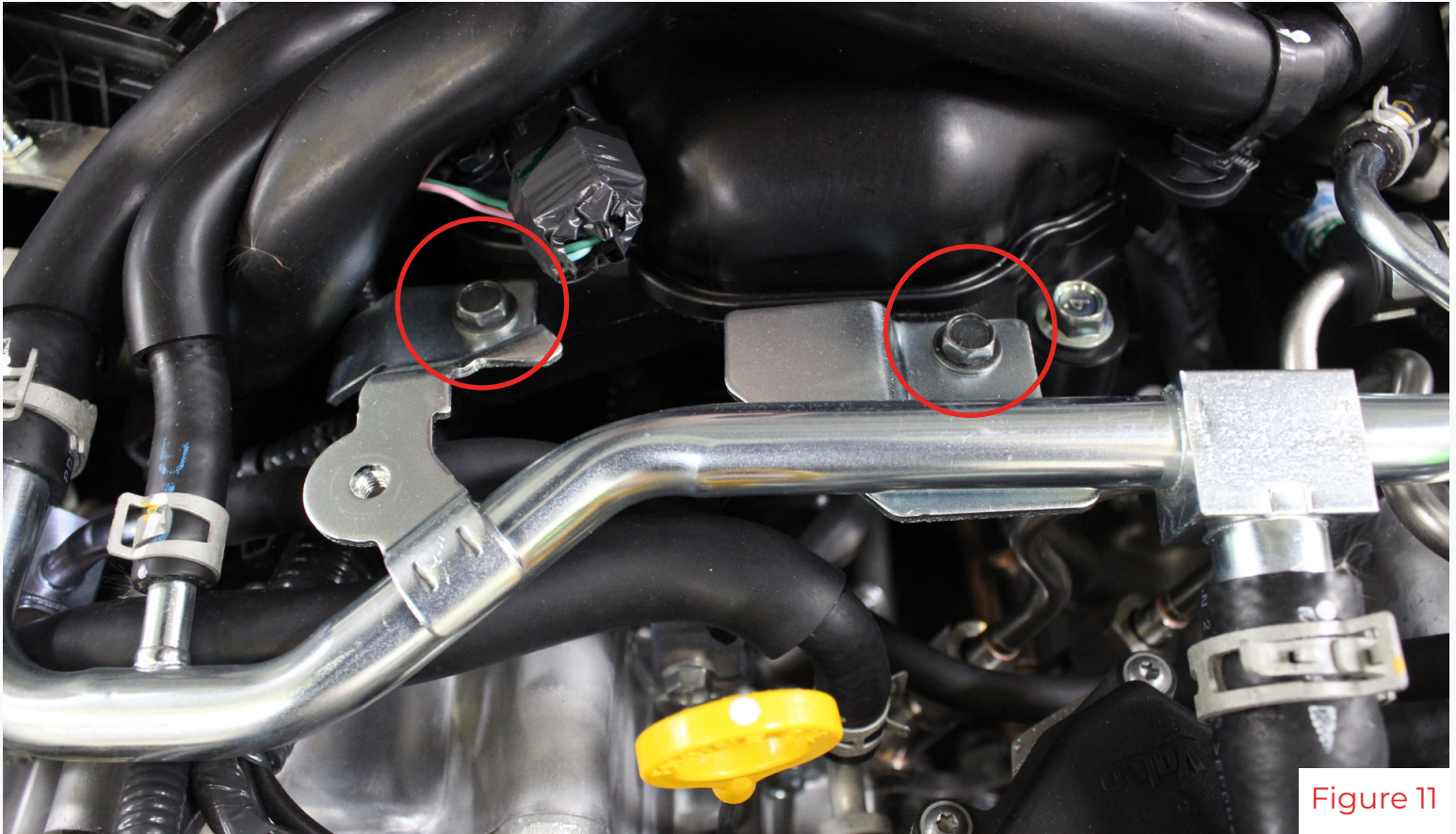


Figure 11

7. Release the yellow fuel line lock and disconnect the fuel line from the damper assembly(fig 12). Remove the two bolts mounting the damper assembly to the engine(fig 13).

Note: If an AMS Flex Fuel Kit is already installed, remove the line from the quick connect fitting on the flex fuel sensor to the pump.

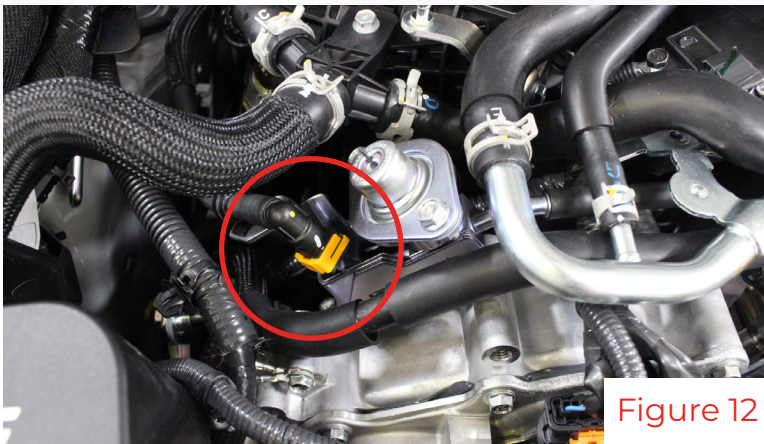


Figure 12

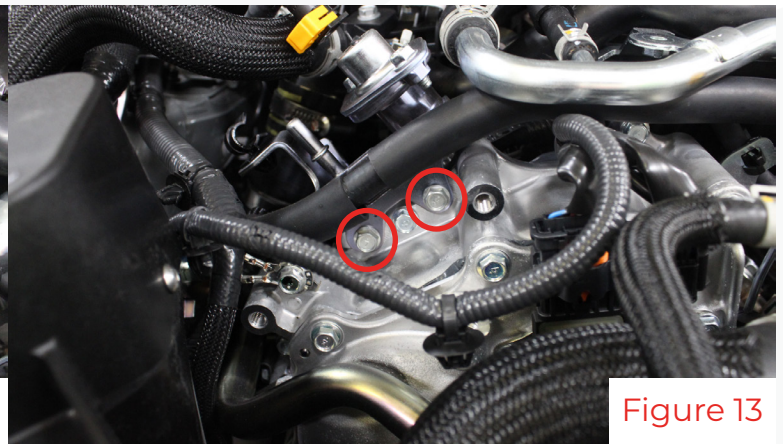


Figure 13

8. Remove the hose retainer from the oem fuel damper bracket(fig 14) and install it on the new hard pipe(fig 15).

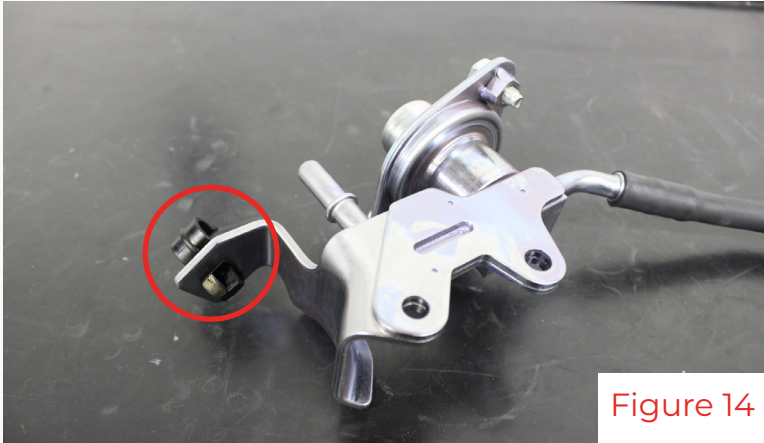


Figure 14



Figure 15

9. Use compressed air or brake clean to clean the hardpipe of any debris(fig 16) and then install it on the engine reusing the factory fuel damper hardware(fig 17).

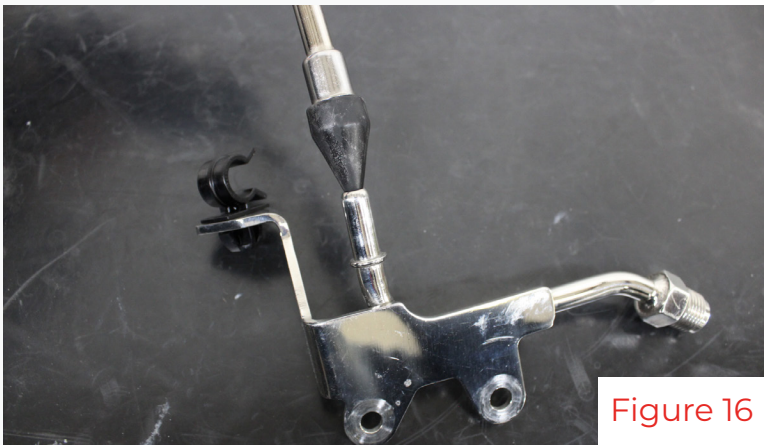


Figure 16



Figure 17

10. Reconnect the fuel line(fig 18).



Figure 18

11. Locate the AMS Fuel Filter Bracket, m6 washer and m6 bolt(fig 19). Remove the m6 bolt holding the a/c line to the bracket(fig 20). Install the AMS Flex Fuel Bracket over the existing brackets. Align the bracket parallel to the a/c line as shown before(fig 21 & 22).

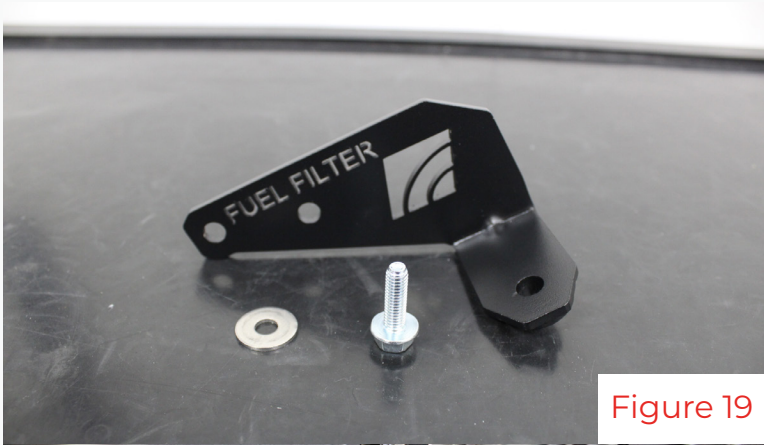


Figure 19

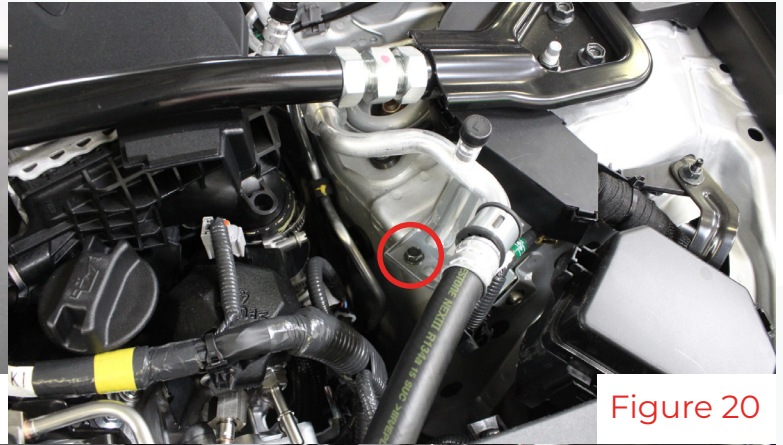


Figure 20

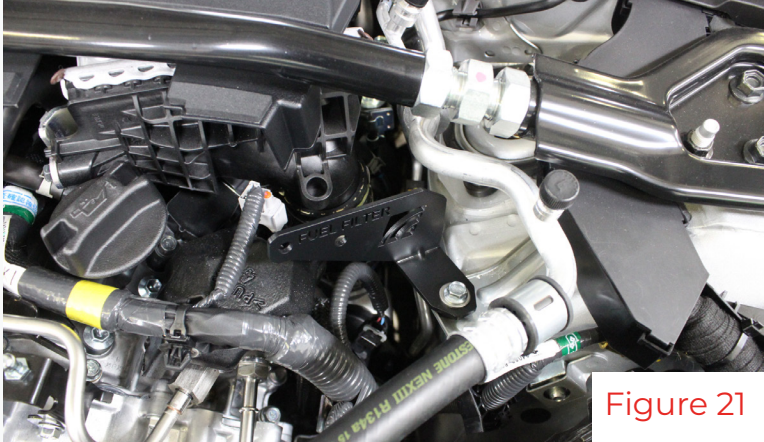


Figure 21

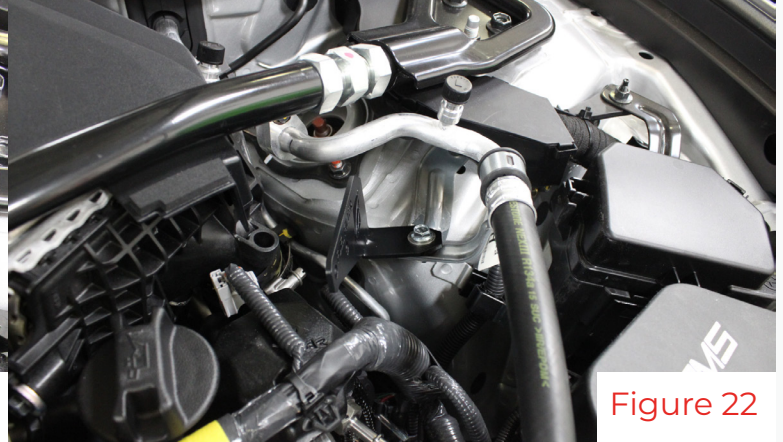


Figure 22

12. Install the AMS Fuel Filter Assembly with two nylon lock nuts(fig 23) onto the fuel filter bracket(fig 24).



Figure 23



Figure 24

13. Locate the provided line with a straight fitting and 30-degree fitting(fig 25), install the straight fitting onto the hardpipe from step 10(fig 26), or the flex fuel sensor if installed. Install the 30-degree fitting onto the fuel filter(fig 27).



Figure 25

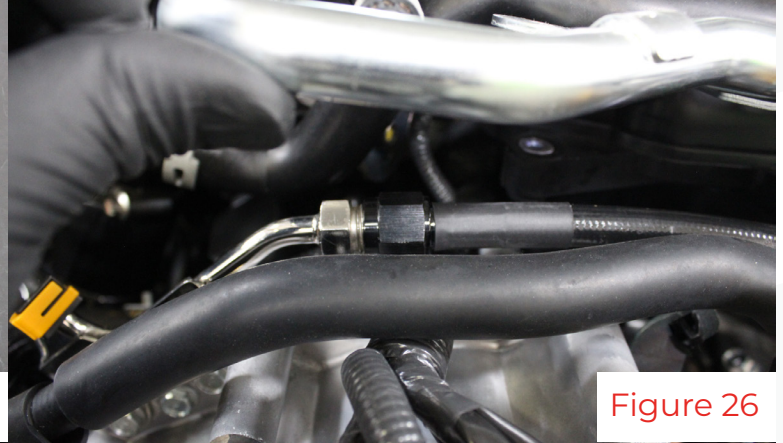


Figure 26

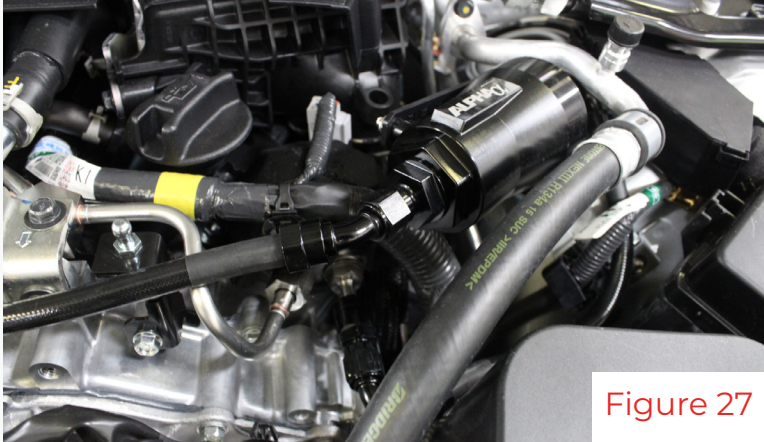


Figure 27

14. For all AMS HPFP **EXCEPT** stage 3, install the quick connect adapter fitting to the pump(fig 28 & 29).



Figure 28

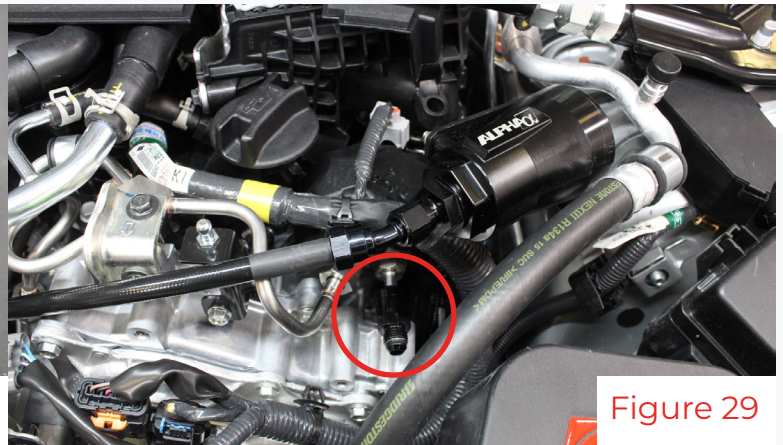


Figure 29

15. Install the final line between the filter and the pump(fig 30). Starting with the 45-degree fitting, route the line towards the strut tower and loop it underneath back to the pump as shown below(fig 31 & 32).



Figure 30

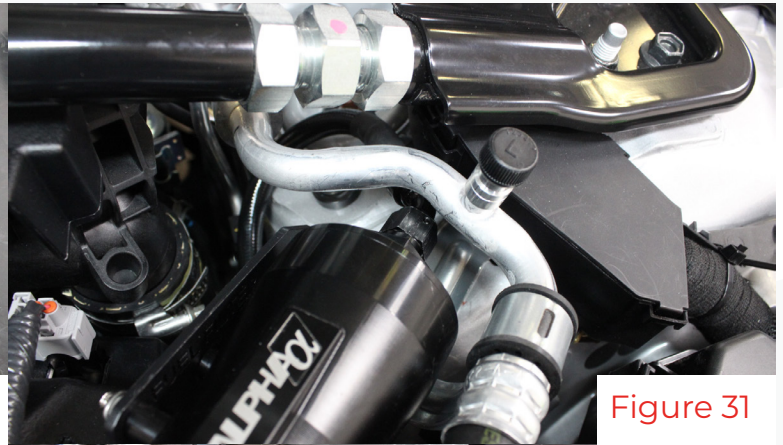


Figure 31



Figure 32

16. Finally, reinstall all removed parts. This concludes the installation of the AMS Fuel Filter Kit. Enjoy!