

NISSAN Z HEAT EXCHANGER

INSTALL INSTRUCTIONS

Nissan Z 2022-

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 **///**

1. Begin by raising the car and removing the front wheels. Remove the front undertray and the front half of both wheel well fender liners.



Figure 1

1a. Remove the 16 bolts and 3 plastic clips securing the front undertray. (Fig. 2 & 3)

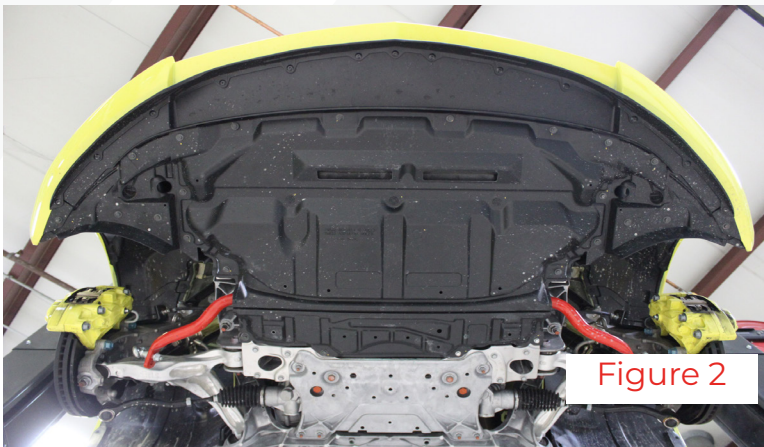


Figure 2

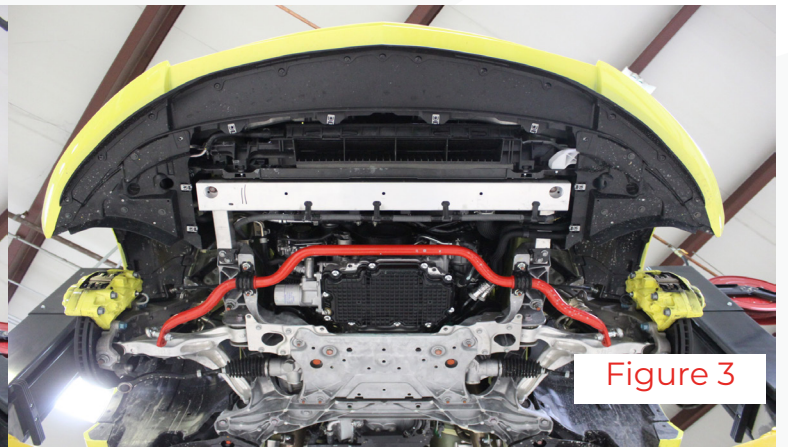
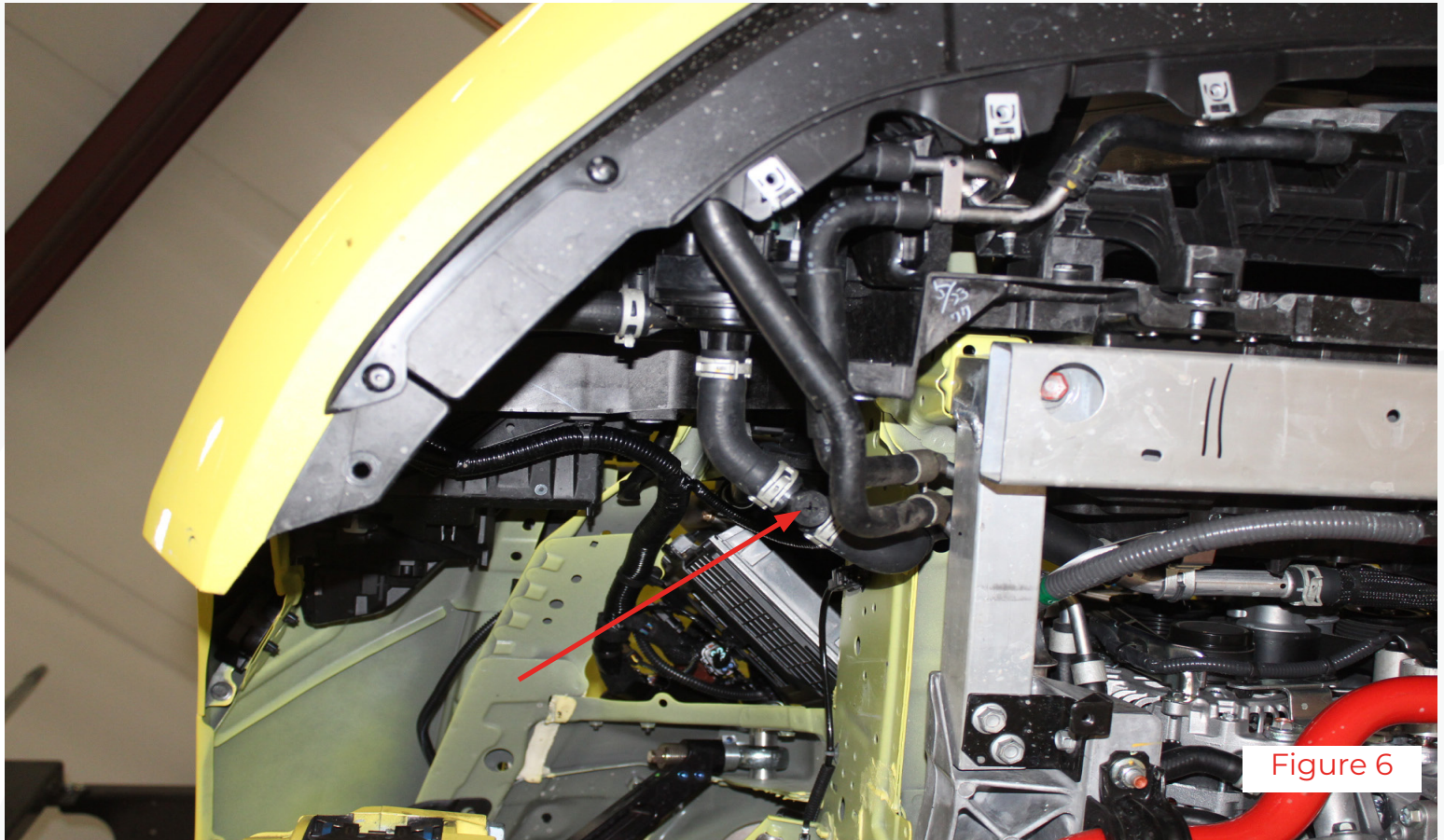


Figure 3

1b. Remove the 7 plastic clips and 2 bolts securing the fender liners to the wheel well. (Fig. 4 & 5)



2. With the undertray and fender liners removed, locate the I.C. coolant drain on the passenger side of the vehicle. Using a philips head screwdriver open the drain fitting and drain coolant. (Fig 6)



BUMPER REMOVAL **///**

2. Remove the bumper starting at the 2 bolts on each corner that connect the bumper to the fenders. (Fig 7) Then disconnect the 2 electrical connectors located in the passenger side of the bumper. (Fig8) Remove the cowl on the top side of the bumper which is held on by 16 clips. (Fig 9 & 10) There will be one final clip under the cowl, remove it then remove the bumper. (Fig 11 & 12)



CRASH BEAM REMOVAL ///

3. Remove the foam from the crash beam by pulling it towards you. Next, disconnect the coolant line from the crash beam (Fig 13) as well as the 2 sensors located on the crash beam. (Fig 14 & 15) Be sure to also unclip the electrical harness from it's mounts on the crash beam. (Fig 14) Finally, remove the 4 fasteners holding the crash beam on each side to the vehicle and remove it. (Fig 16)

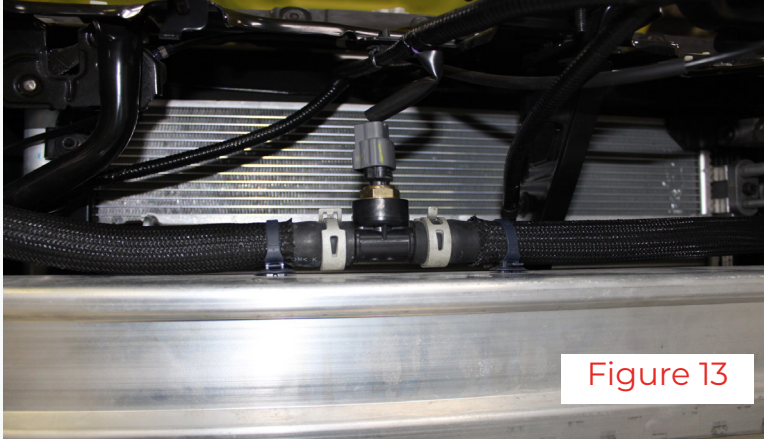


Figure 13

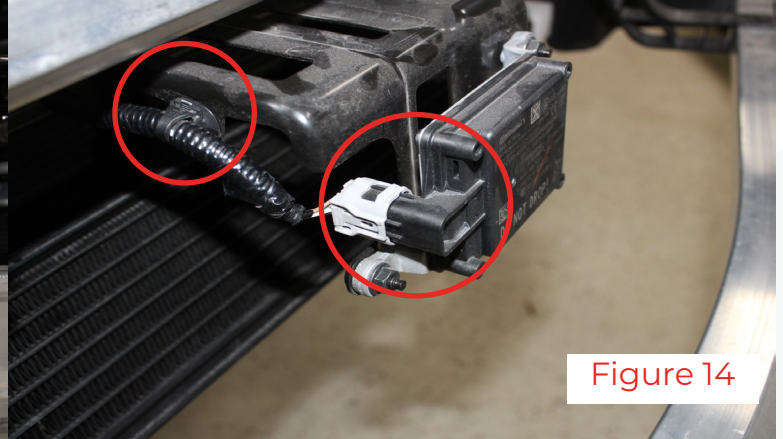


Figure 14



Figure 15

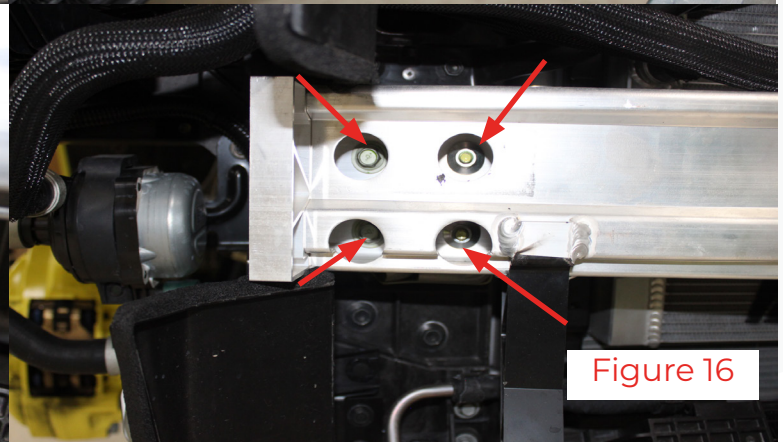
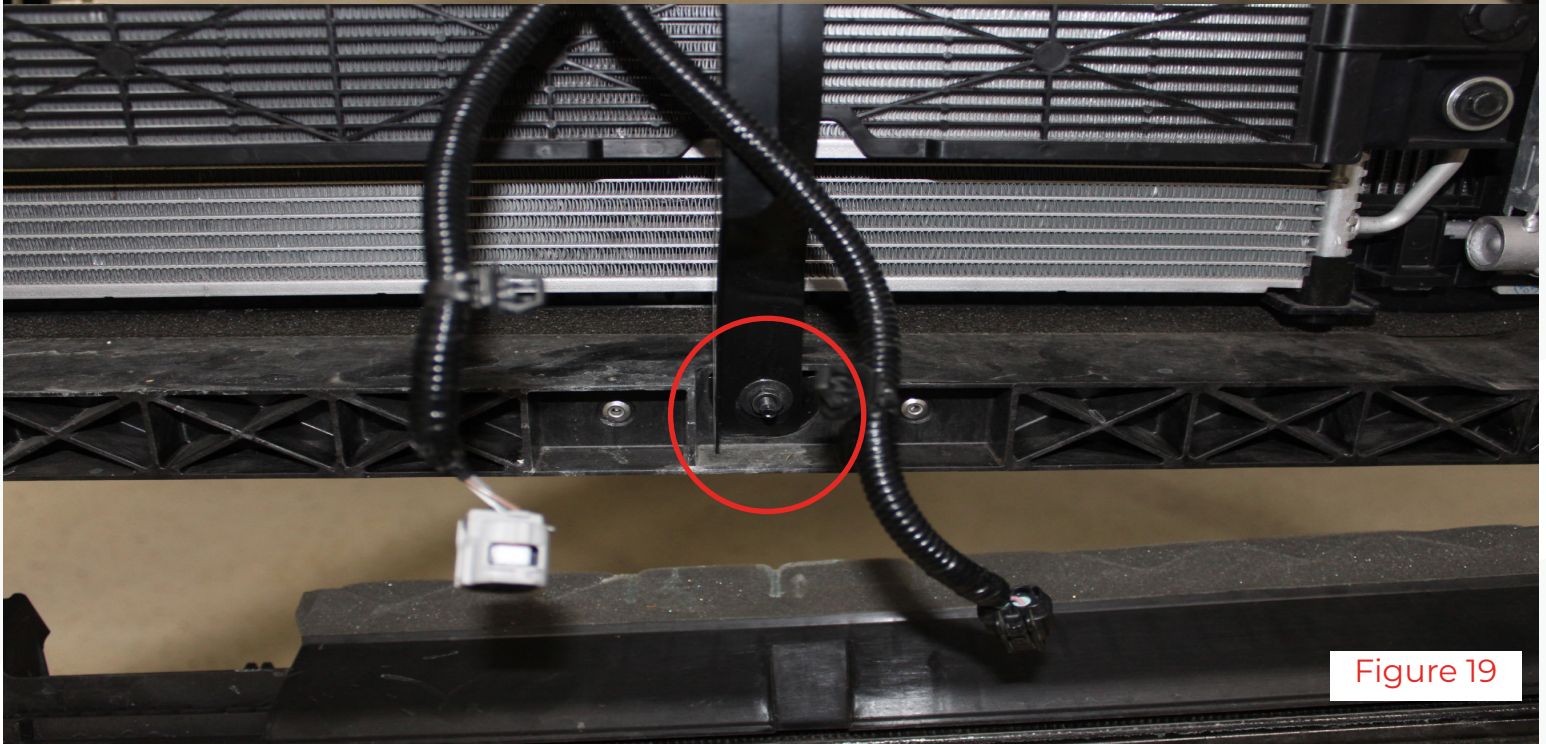
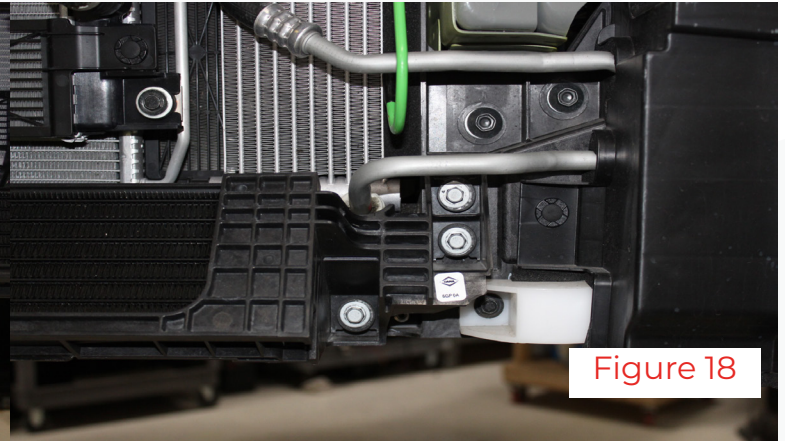
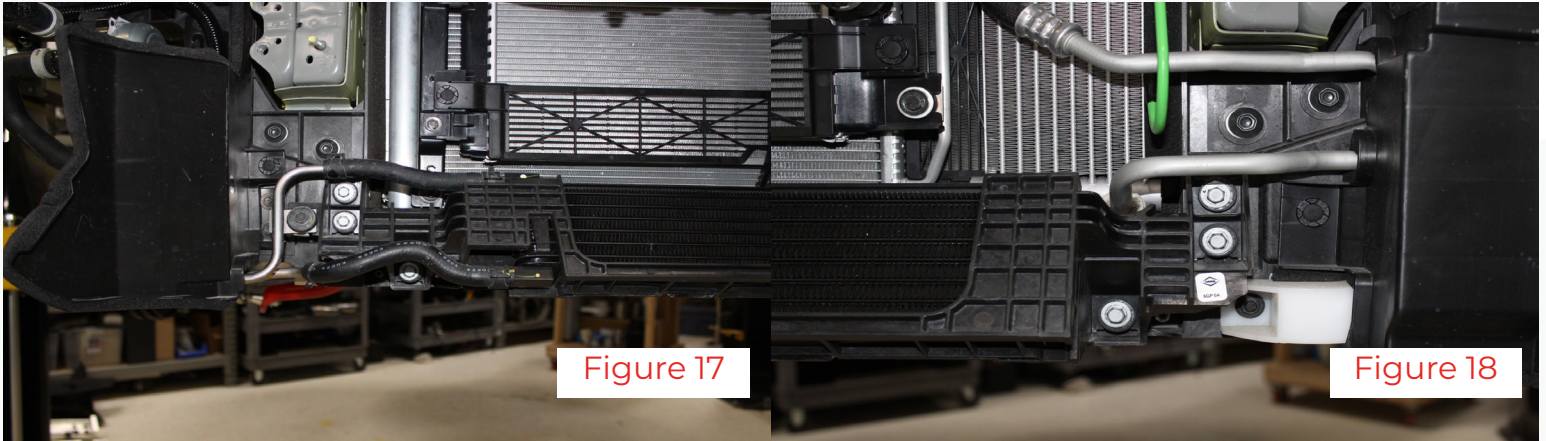


Figure 16

OIL COOLER AND CENTER BRACE ///

4. To gain access to the center brace bottom nut, remove the 6 bolts holding the oil cooler and swing it out of the way, (Fig 17 & 18) it is not necessary to undo any oil lines. Now remove the nut on the bottom of the center brace that was behind the oil cooler. (Fig 19)



4a. At the top of the center brace, unbolt and remove the cage and sensor from the brace. (Fig 20) Then undo the 7 bolts holding the center brace to the support skeleton. Remove the brace. (Fig 21)

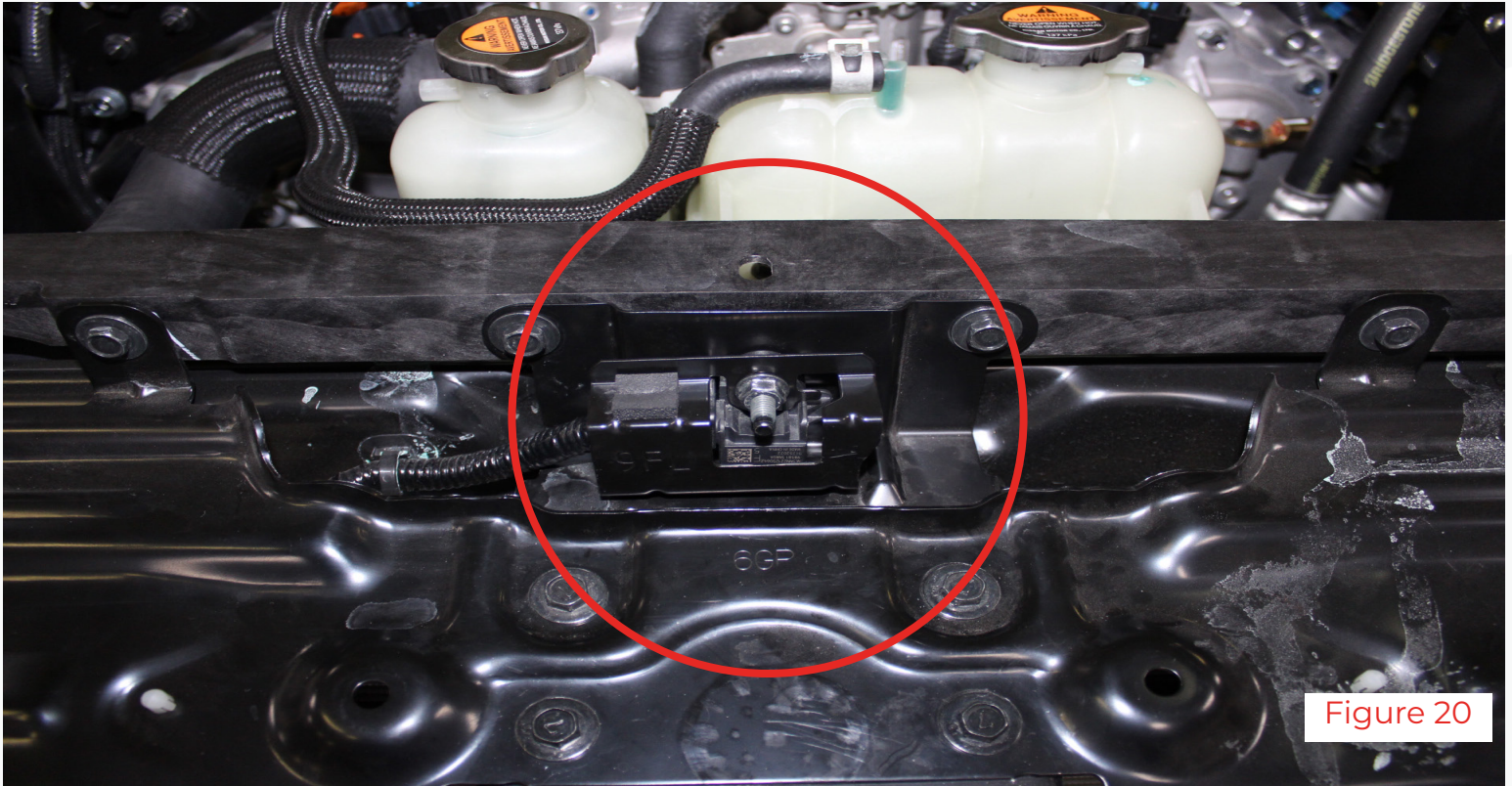


Figure 20

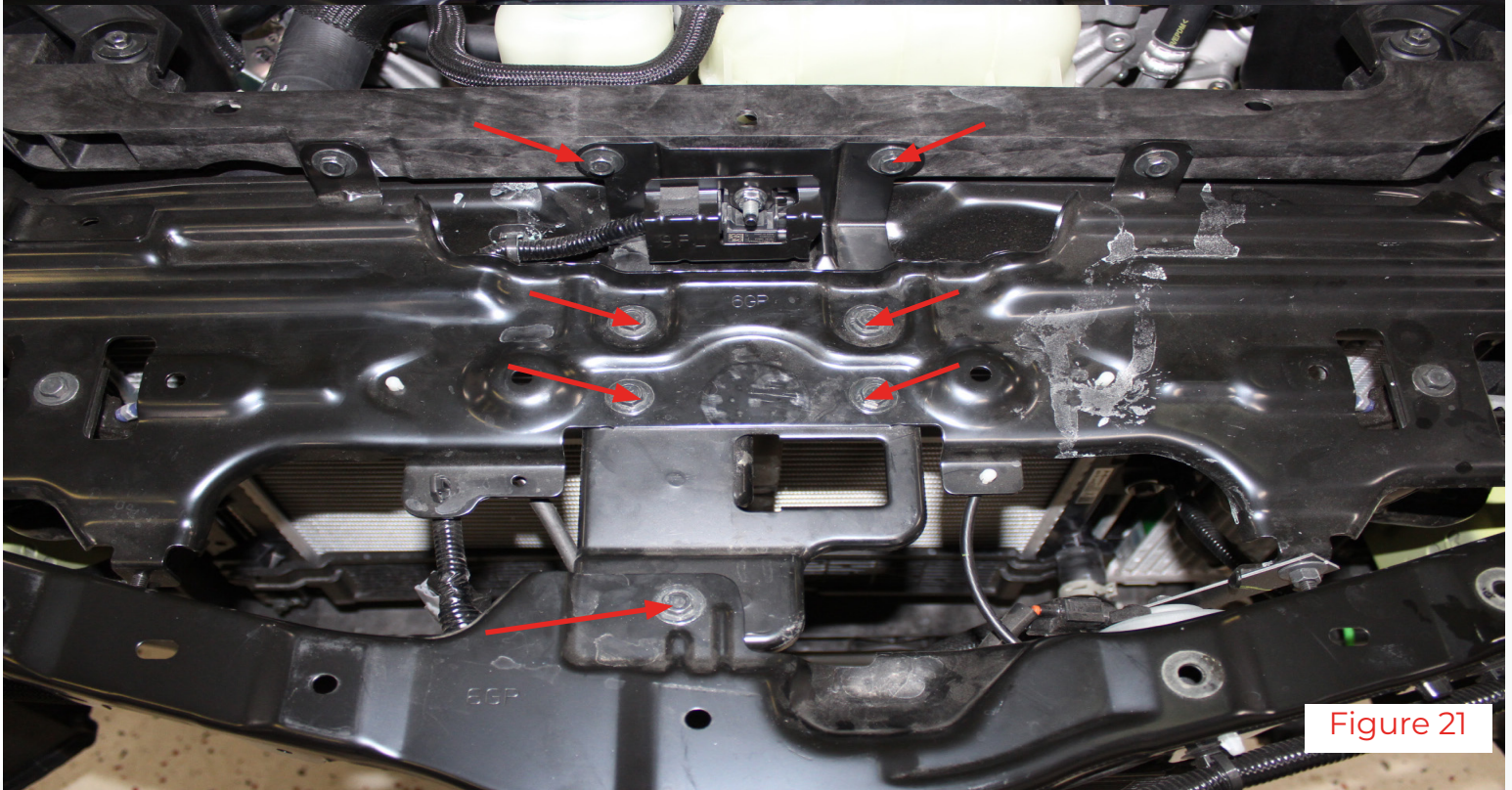


Figure 21

HEAT EXCHANGER REMOVAL **///**

5. Disconnect the coolant lines going to the exchanger. (Fig 22) Then remove the 4 bolts and remove the exchanger. (Fig 23)

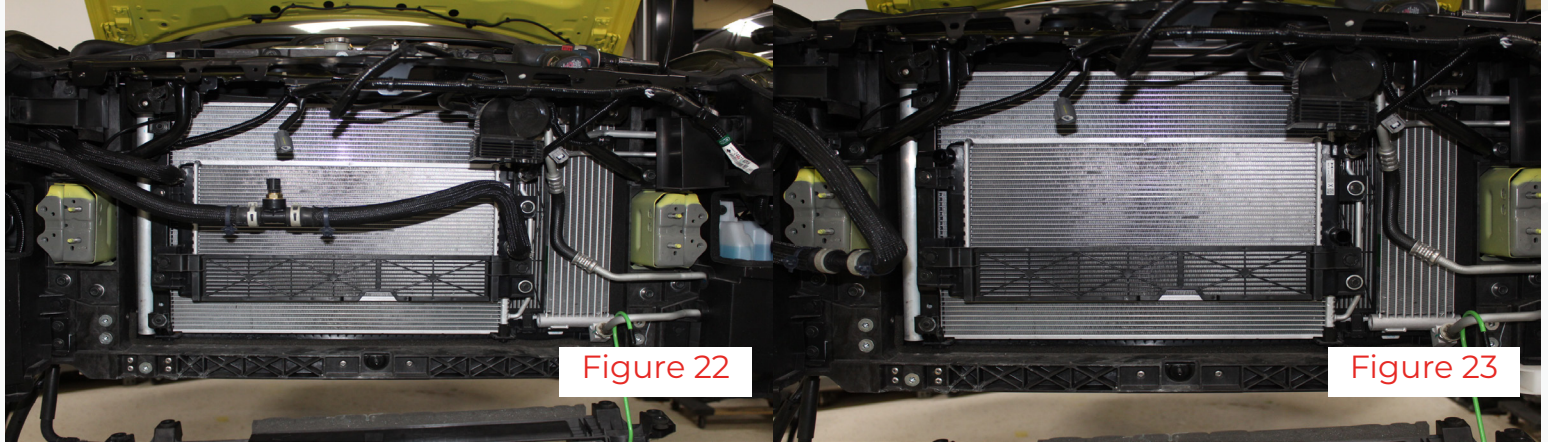


Figure 22

Figure 23

5a. With the exchanger out, now remove the 2 rubber grommets. You will reuse these. (Fig 24)

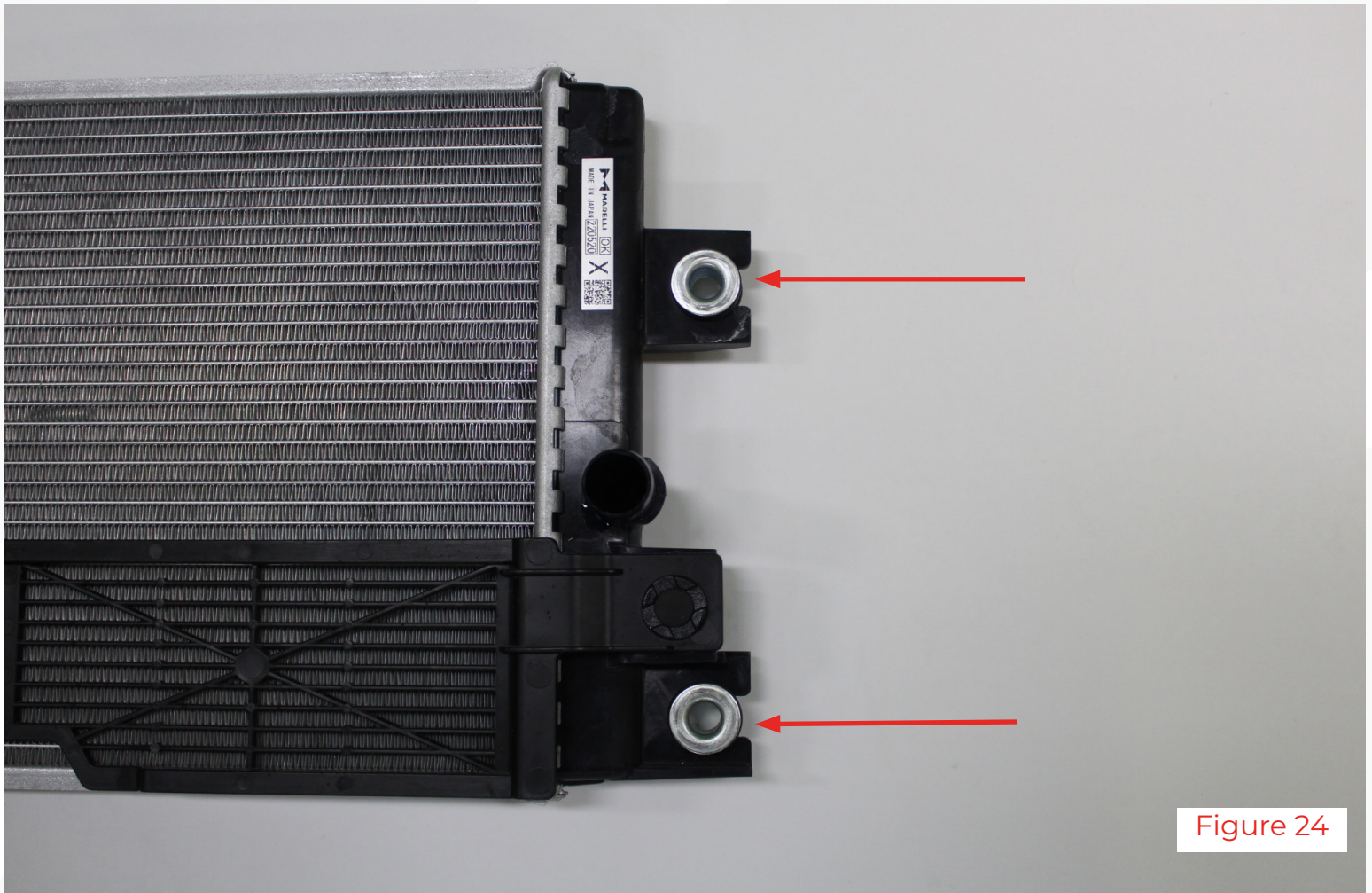


Figure 24

AMS HEAT EXCHANGER INSTALL ///

6. Transfer the grommets from the factory exchanger onto the AMS exchanger. Place the AMS exchanger onto the vehicle, letting it rest on the radiator support skeleton which will allow you to reinstall the center brace. (Fig 25)
With the center brace loosely installed bolt up the AMS exchanger. (Fig 26)

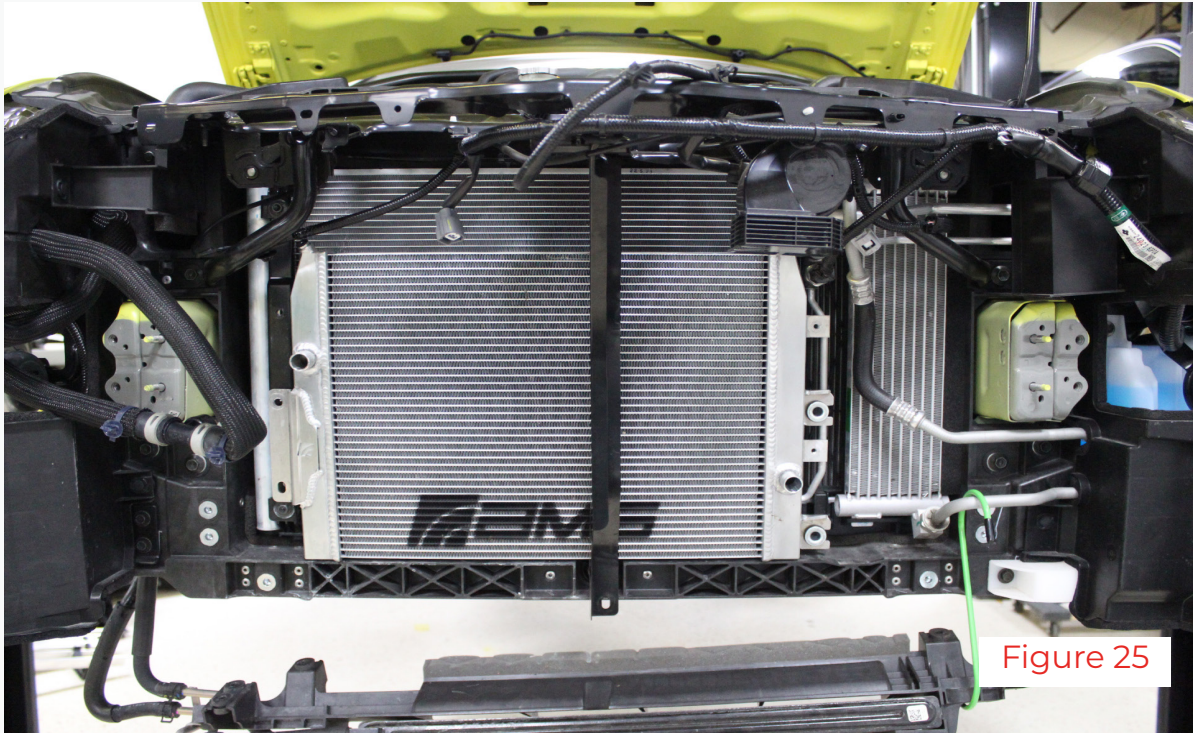


Figure 25



Figure 26

6a. Reconnect the coolant lines to the AMS exchanger. Reinstall the rest of the components in reverse order of installation. (Fig 27)

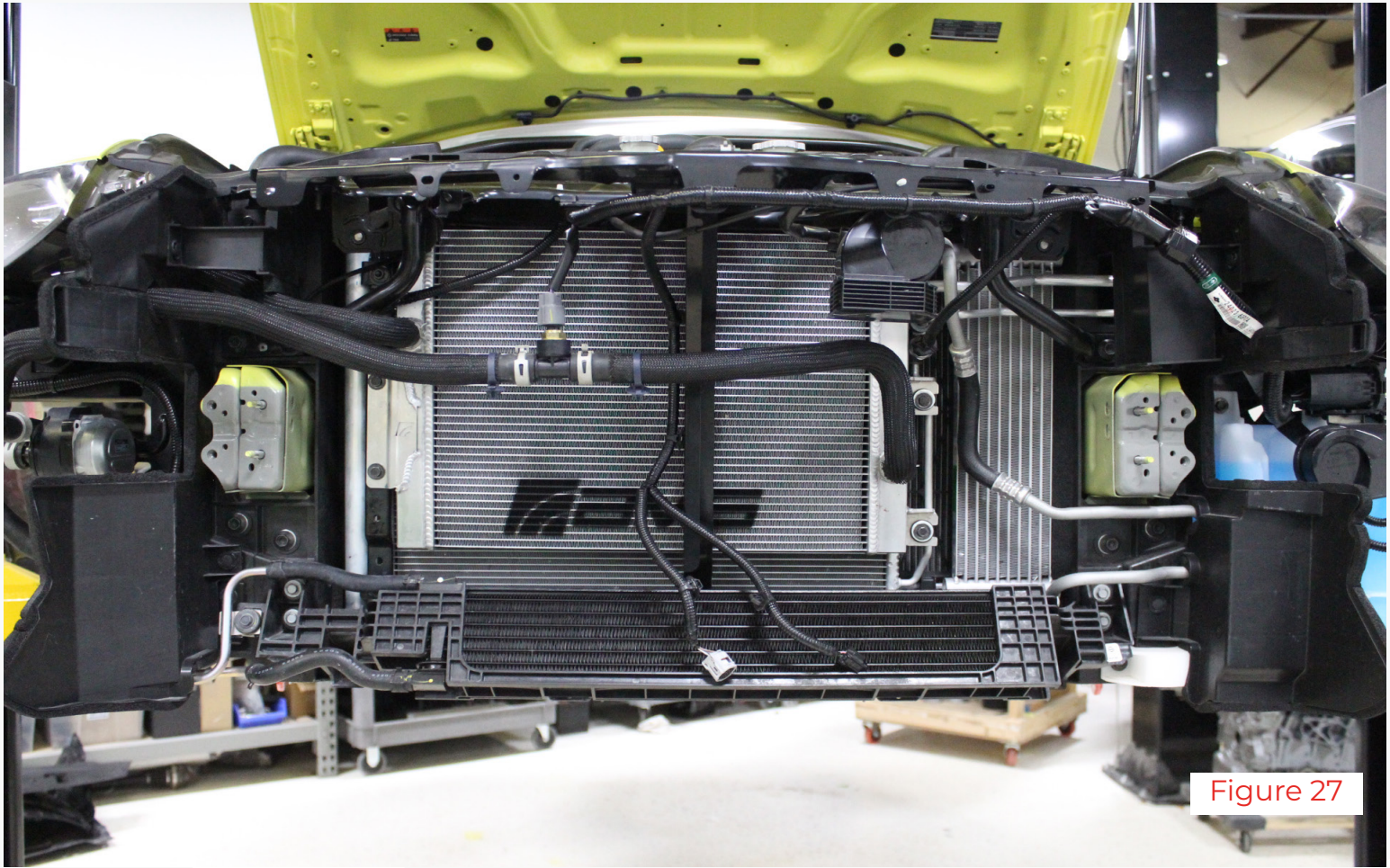


Figure 27

I.C. SYSTEM BLEEDING ///

7. Air lift and fill the system using a Matco Tools MCR103A or similar vacuum cooling system filler. (Fig 28) Your new AMS Heat Exchanger is also equipped with a bleed port to assist in system bleeding. Crack this port after filling while the I.C. pumps are running to help release air that may be trapped in the core. (Fig 29)

This completes the install process, enjoy your new AMS Heat Exchanger!



Figure 28



Figure 29