

AMS S55 CHARGE PIPE

INSTALL INSTRUCTIONS

BMW F80 M3 2014-2018

BMW F82 M4 2014-2018

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.

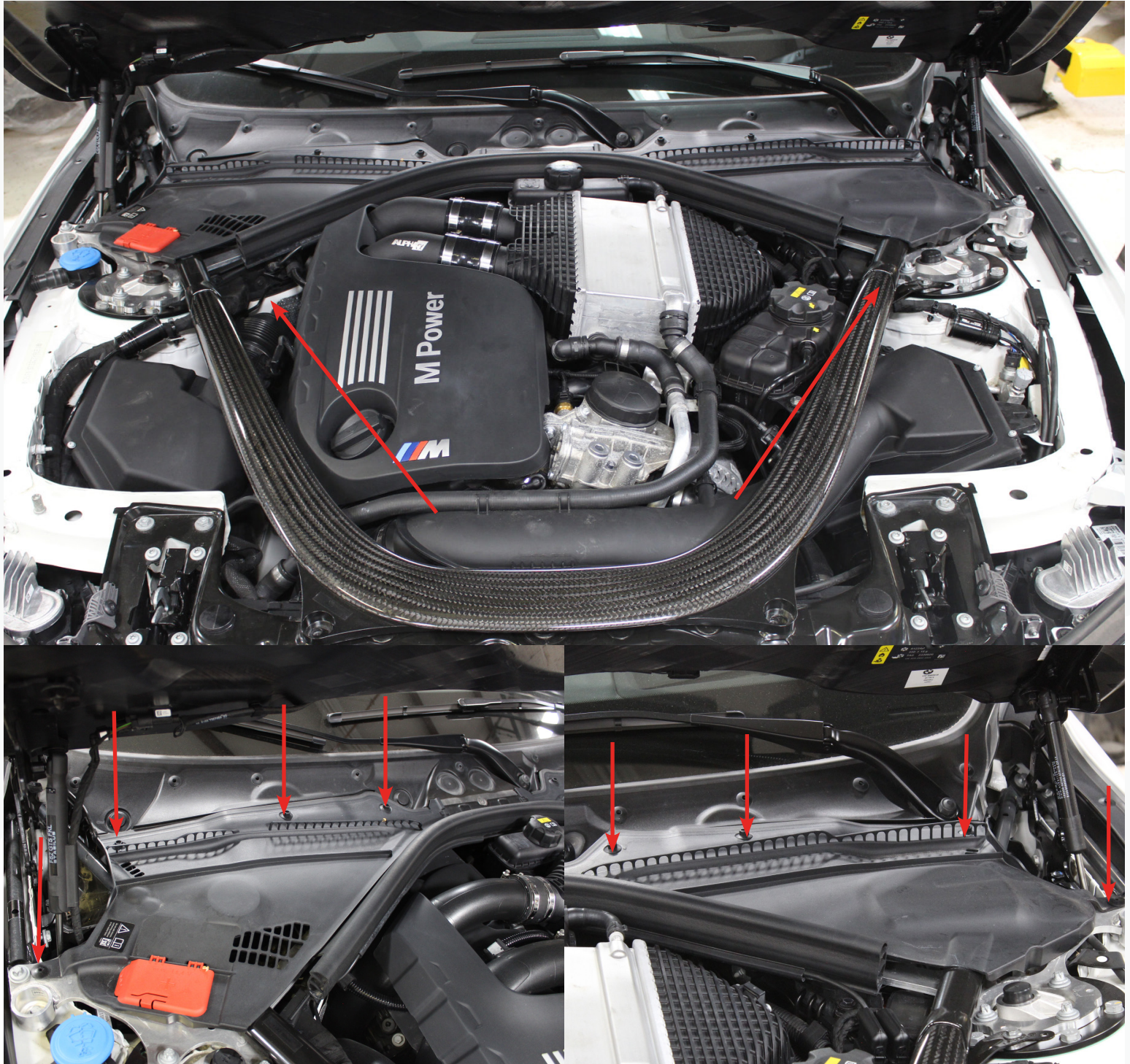
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DISASSEMBLY ///

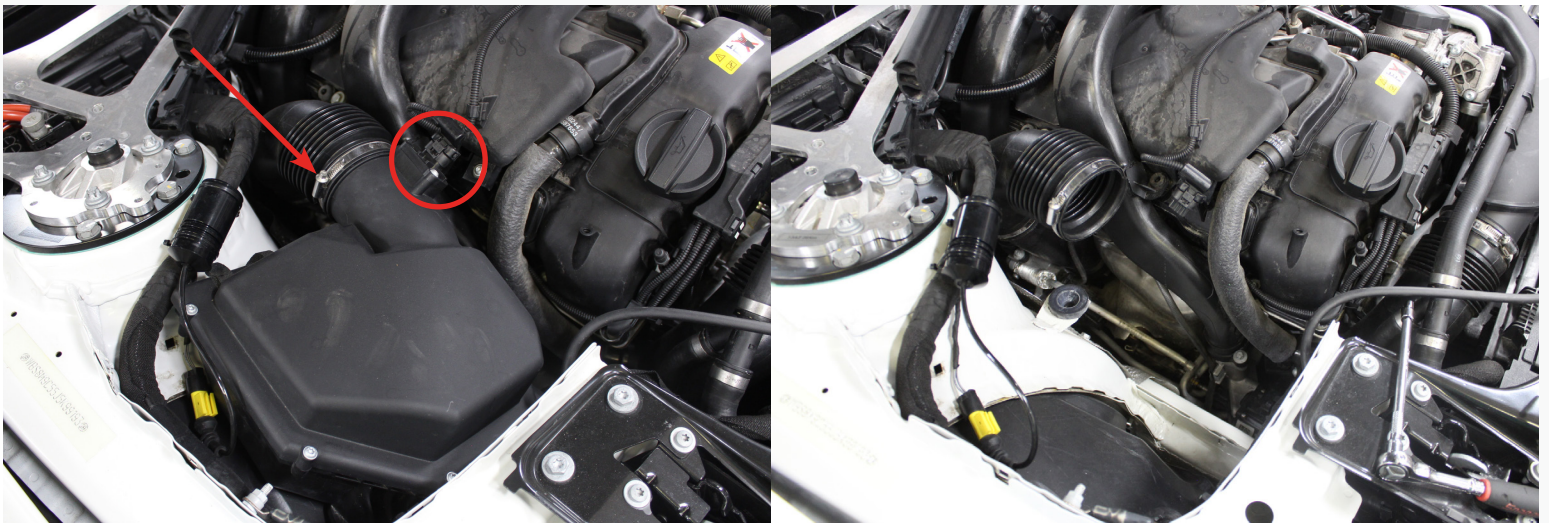
1. Begin by removing the two cowls covering the positive battery terminal and the brake master cylinder.



2. Remove the carbon fiber strut brace. The brace is held on by six 13mm bolts at the rear and three 10mm bolts, two at the front of the brace and one on the coolant expansion tank. Remove the brace.

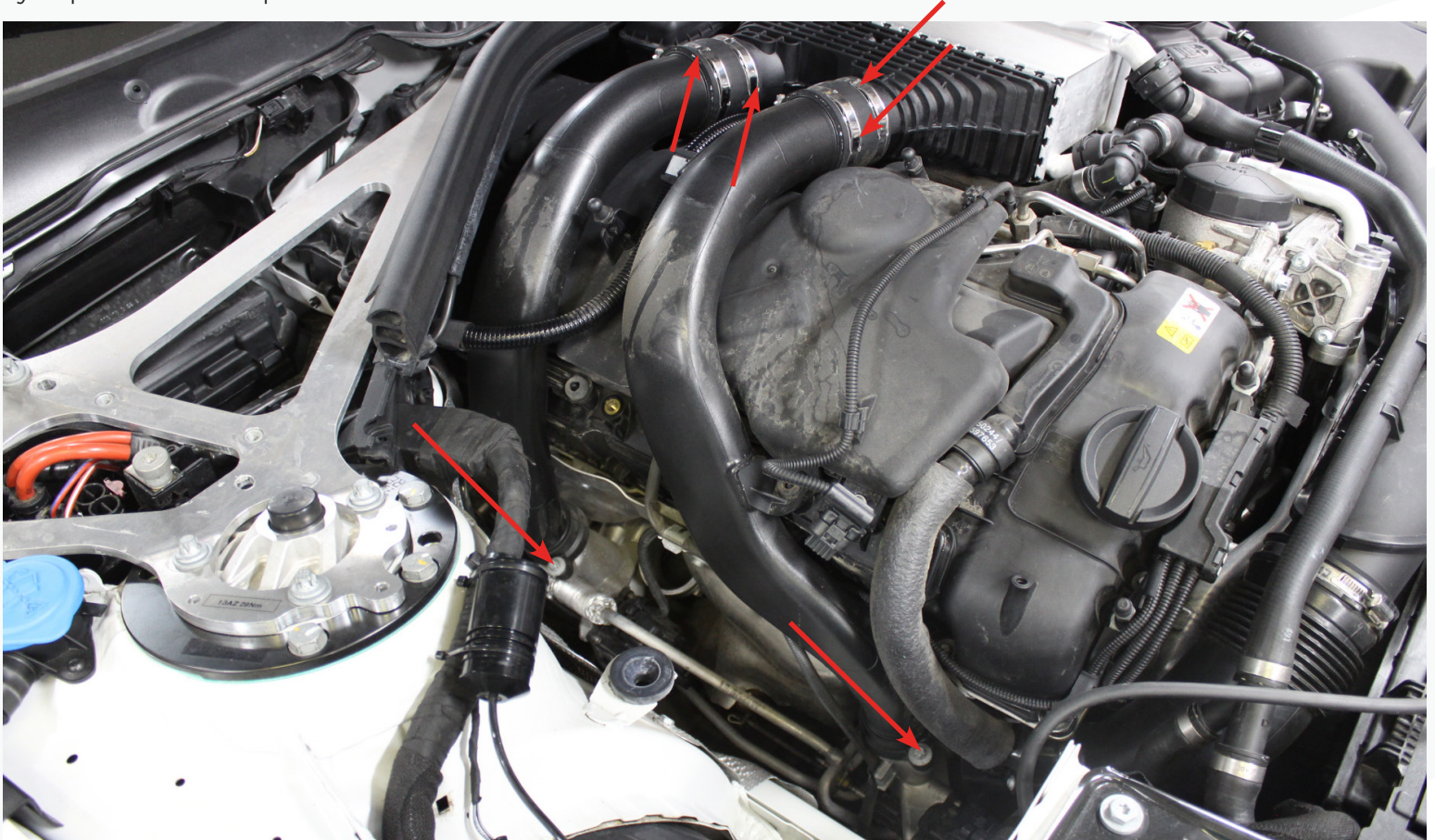


3. Begin with the right airbox (passenger side), disconnect the MAF sensor from the airbox and loosen the worm clamp using a 6mm socket. Remove the coupler attached to the airbox and push out of the way. Remove airbox by pulling up on the box to release it from the three mounting grommets. Set airbox aside.



OEM CHARGE PIPE REMOVAL **///**

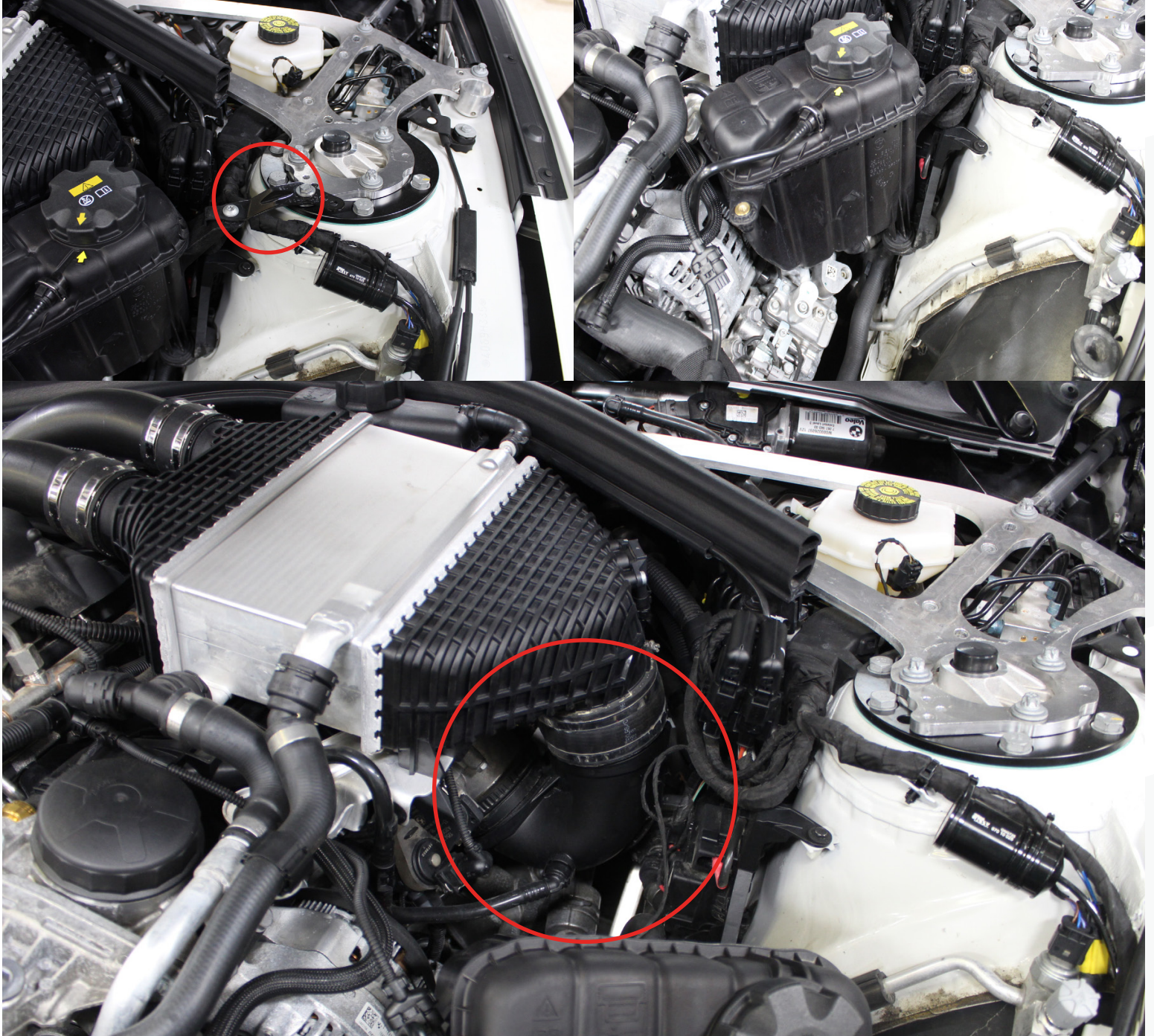
4. Remove the right (passenger side) charge pipes by first loosening the worm clamps attached to the intercooler using a 6mm socket and bolts using a E10 socket. With those undone first pull the pipes off the intercooler and then pull them up out of the turbo outlets. For the rear pipe you may have to rotate it counterclockwise as you pull it out to help remove it.



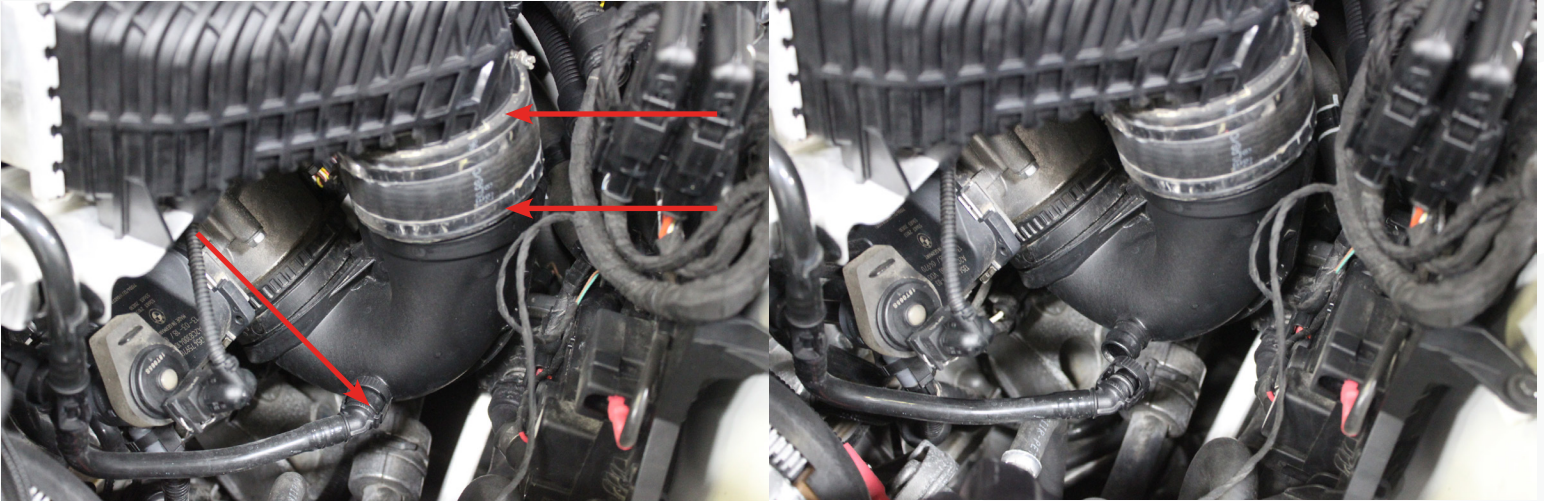
4a. To remove the plastic turbo inlet tube, remove 10mm bolt and pull out the tube. There is a rubber O-ring on the inlet. Make sure this remains in place, as it will be reused.



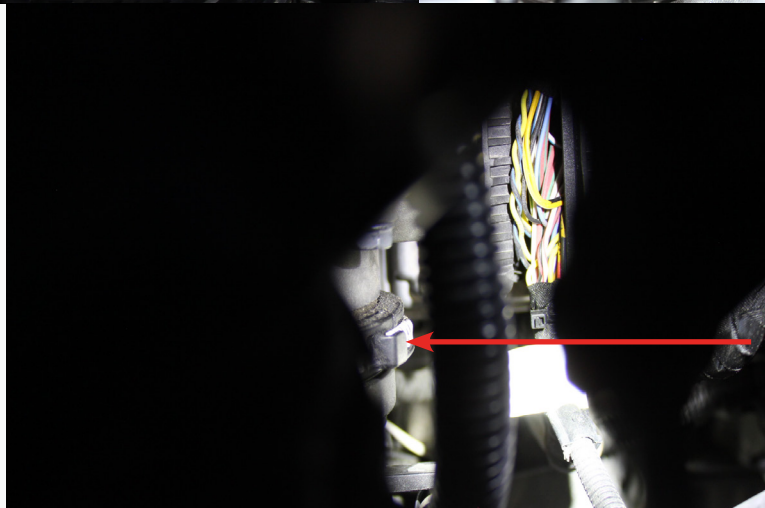
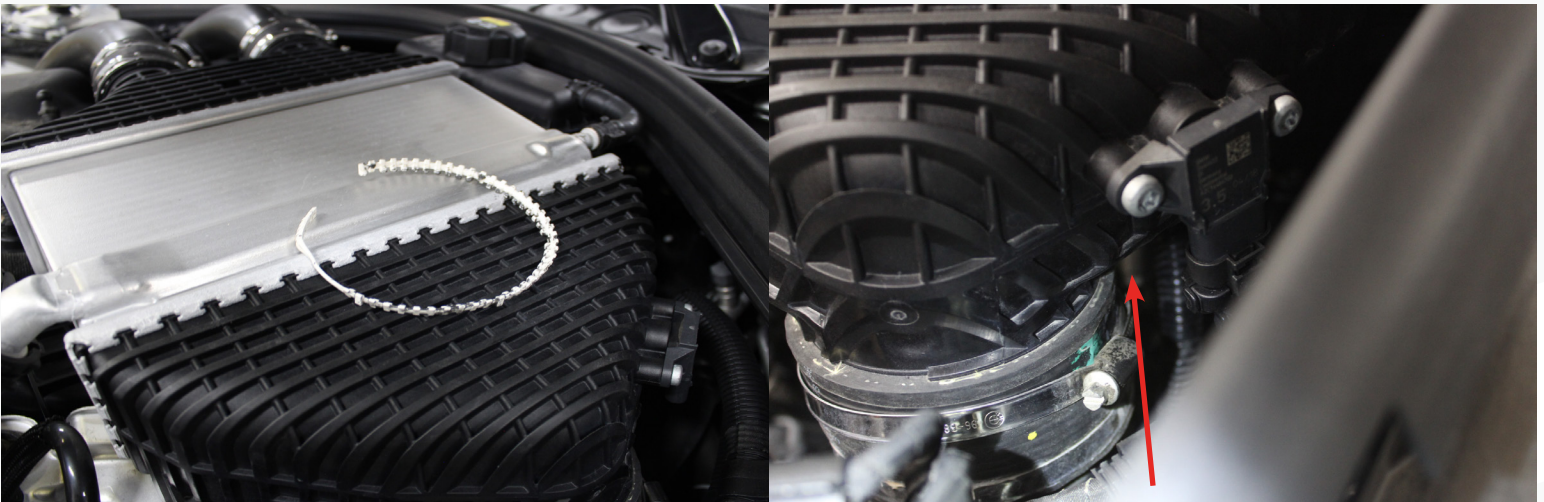
4b. For the left (drivers' side) charge pipe. First undo the bracket holding the coolant reservoir to the strut tower and pull the reservoir up and towards the front of the car to reveal the charge pipe.



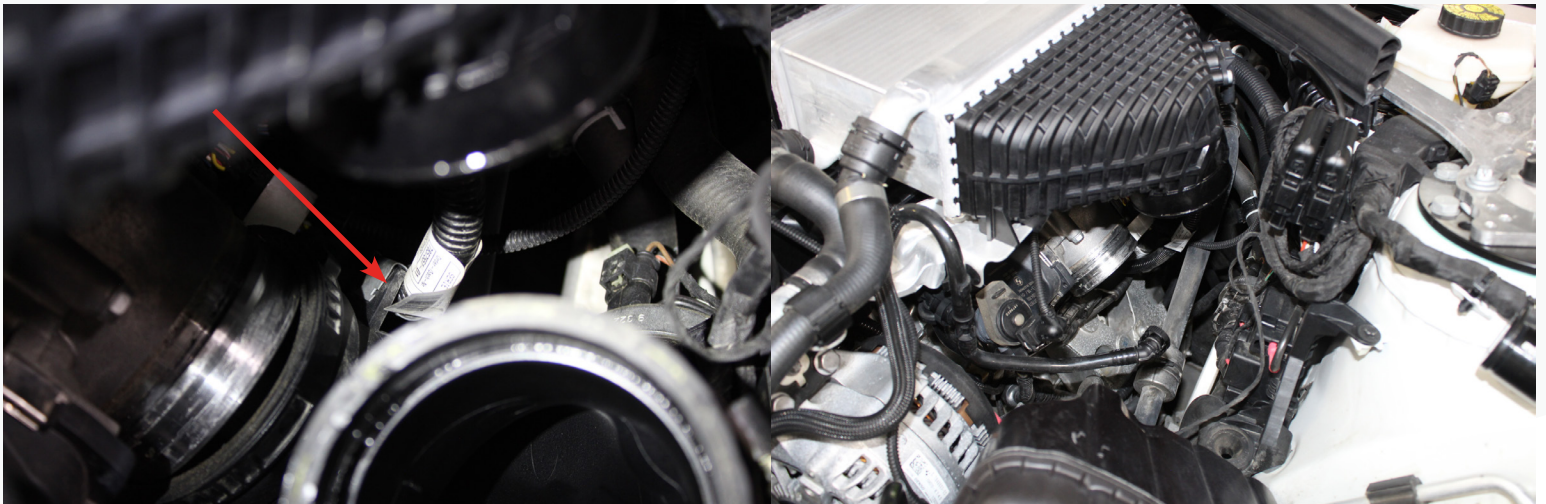
4c. With the left (drivers' side) charge pipe exposed, now loosen the 2 worm clamps using a 6mm socket. Also disconnect the PCV hose from the pipe.



4d. To remove the pipe from the throttle body, you will need to remove the white retaining clip. The following pictures show the clip and its location.



4e. Now disconnect the clip attaching a harness to the stock pipe and remove the charge pipe.



4f. Release the clip from the tab and using a pair of pliers pull the clip out.



AMS CHARGE PIPE ASSEMBLY ///

5. Lay out the AMS charge pipes. This consists of two right (passenger side) pipes and silicones, left (drivers' side) pipe and silicone and six worm clamps.



a. Remove the plugs from the J-pipe and add a dab of thread paste. Reinstall into the pipe.

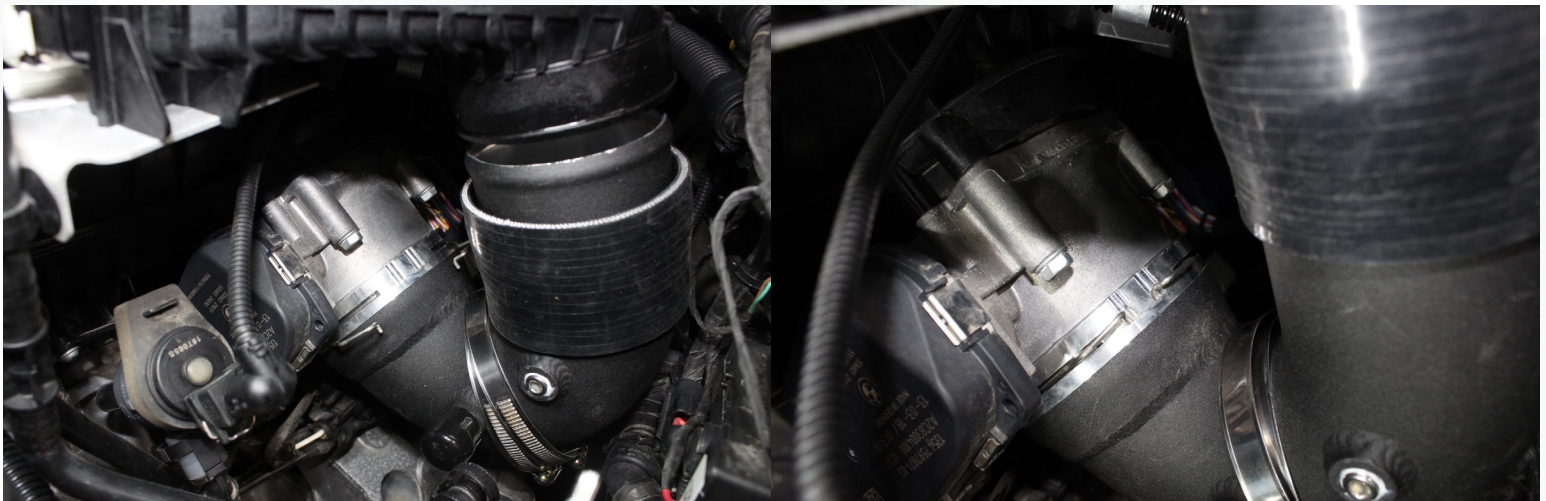


AMS CHARGE PIPE INSTALL ///

6. Begin with the left (drivers' side) pipe. Open the retaining clip on the throttle body side of the pipe as shown below.



6a. Slide the pipe onto the throttle body and attach the retaining clip as shown.



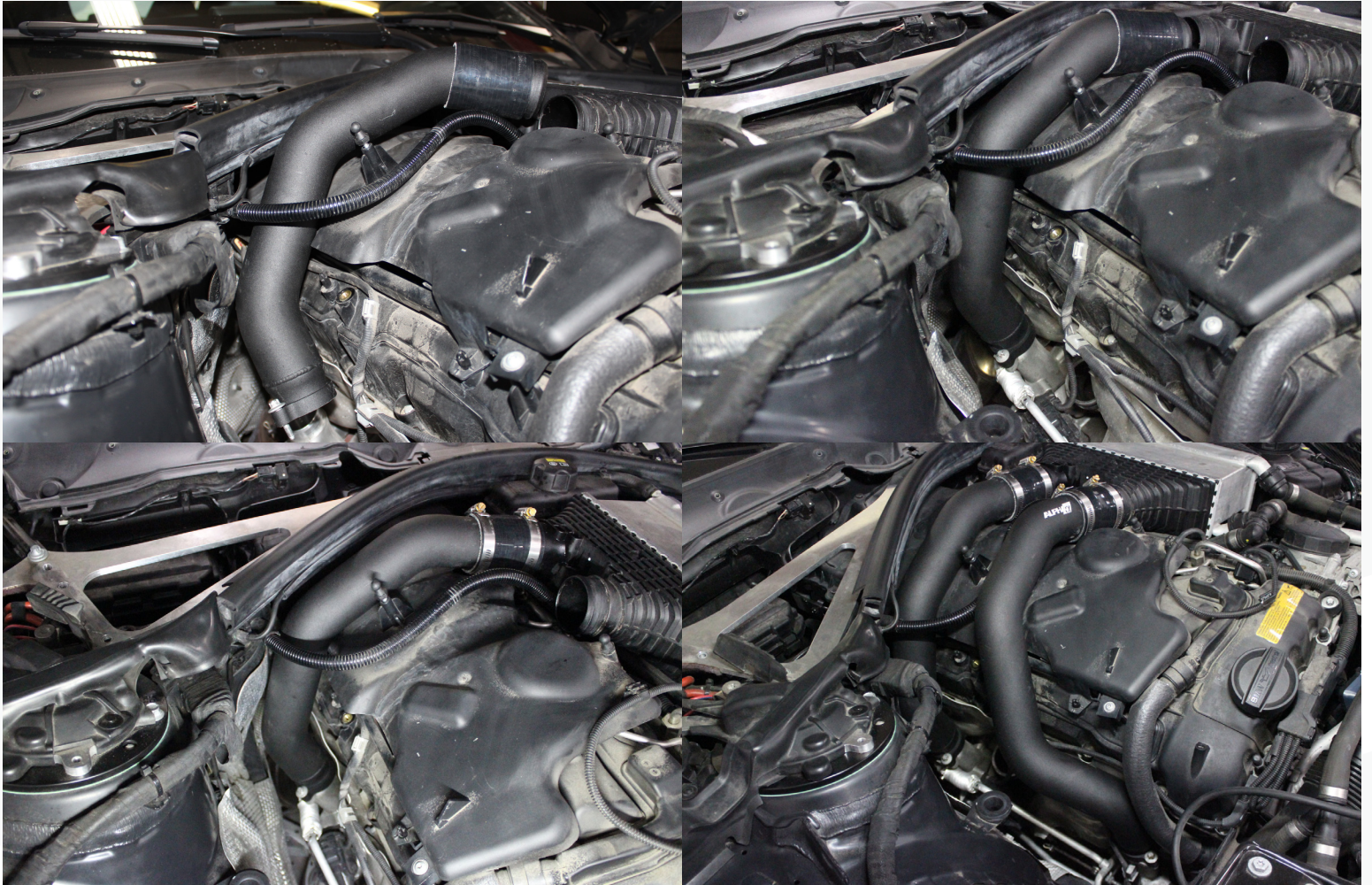
6b. Install the silicone onto the left (drivers' side) pipe. Push the silicone up until you can see the beadroll on the pipe and slide over two worm clamps in the orientation shown below.



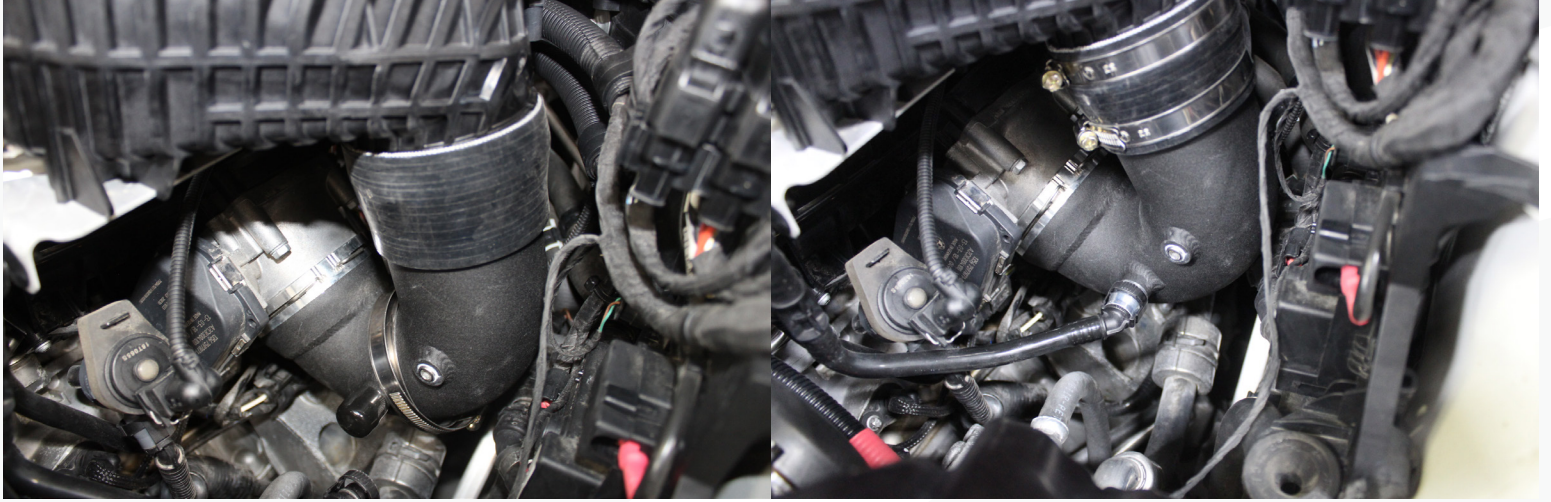
6c. Remove both O-rings from the stock right (passenger side) charge pipes, and transfer to the AMS pipes. Now install the silicone couplers onto both pipes also slide on two worm clamps onto each pipe as shown below.



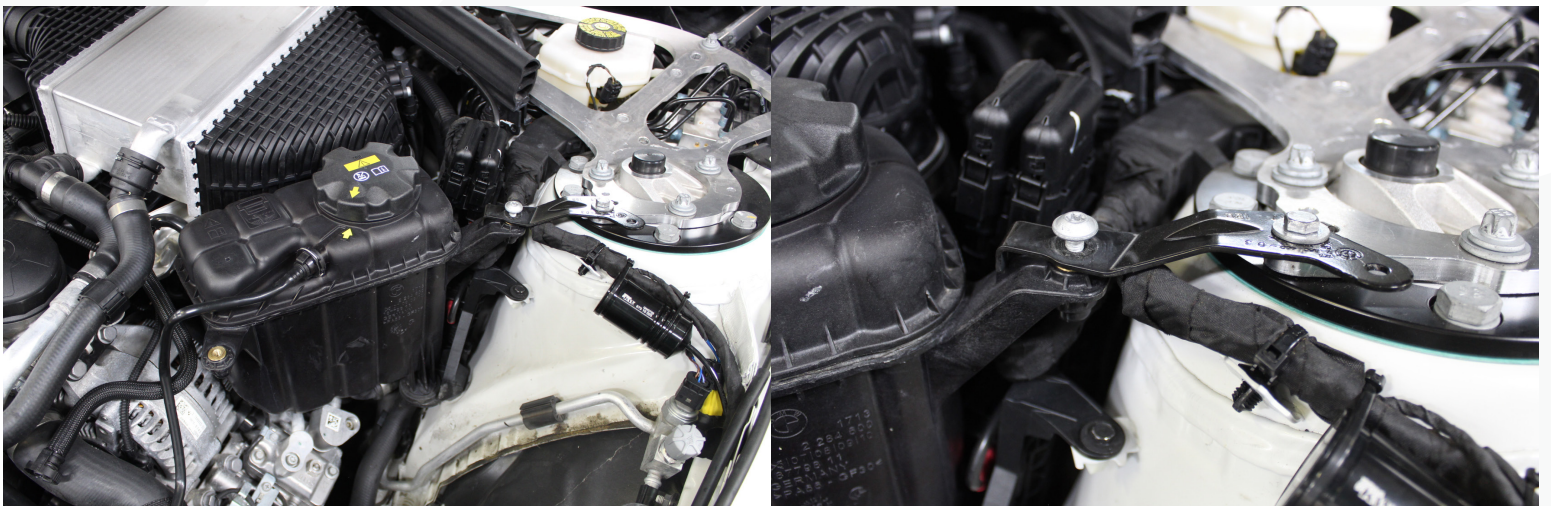
6d. Moving on to the right (passenger side) pipes. Begin with the rear pipe, position the pipe as shown below with the end of the silicone fully inserted onto the tube, slide the hose clamps loosely on here as well (you can also install the hose clamps afterwards by fully loosening them and putting them over the silicone). Drop the factory bolt into the flange before seating it on the compressor outlet. Now, seat it onto the compressor and thread the bolt in. Once it is snug, slide the silicone on the other end onto the intercooler. Tighten all hardware. Repeat to install the second pipe. This completes the install process.



6e. Now slide the silicone up to connect to the intercooler. Tighten both worm clamps and reinstall the PCV hose.



6f. Push the coolant tank back into place and reinstall the bracket to the strut tower.



7. Reinstall the turbo inlet tube, right (passenger side) air box, the carbon fiber strut brace and the cowl covers (see step 1,2 & 3.) You may need to adjust the stanchion closest to the charge pipe up 3mm, so the engine cover clears the charge pipes. This is done by loosening the hex on the stanchion.

