

BMW G8X HEAT EXCHANGER

INSTALL INSTRUCTIONS

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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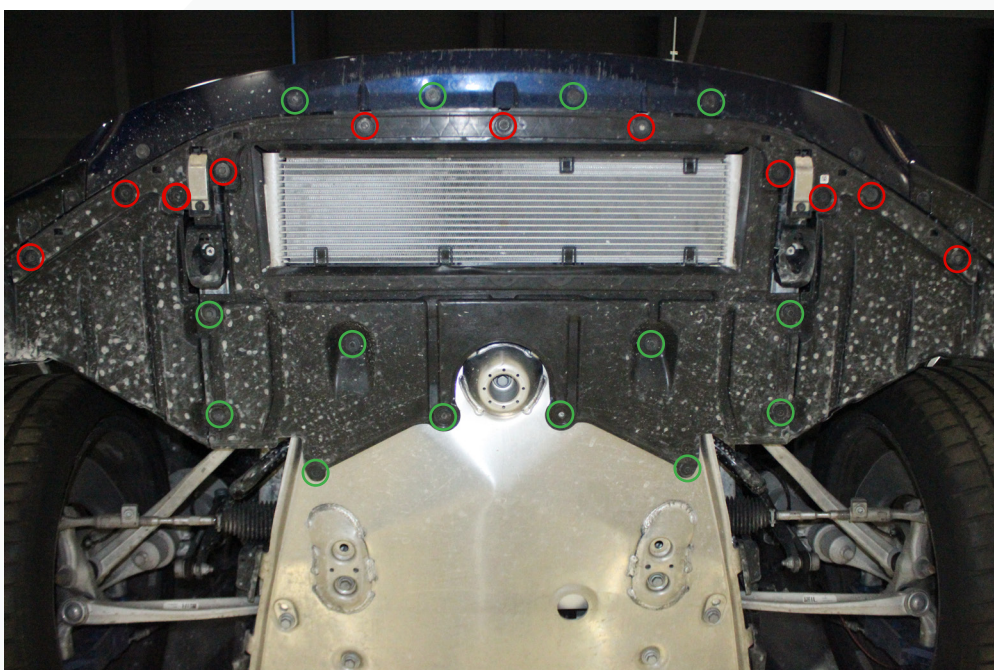
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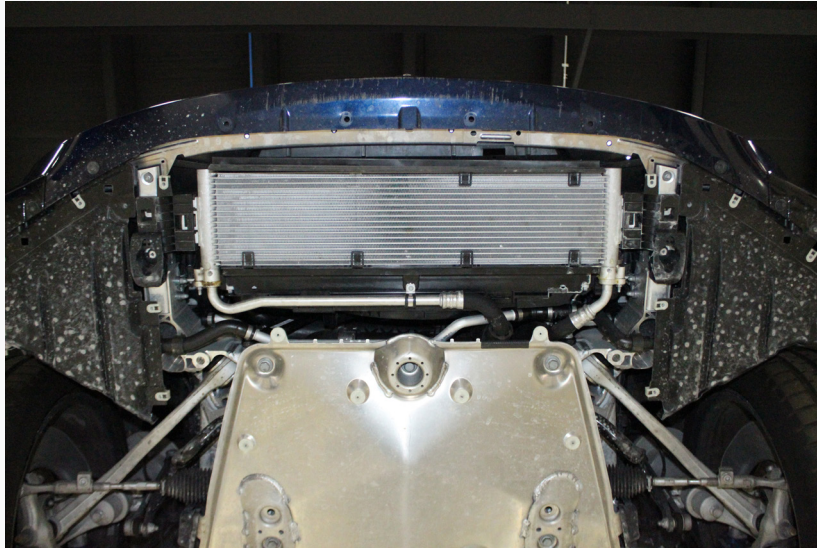
DISASSEMBLY:

1. Carefully raise the vehicle on a lift or Jack stands.



2. From underneath, remove the (11) 10mm screws for the under bumper trim circled in red, then the (14) 10mm under-tray screws, circled in green.

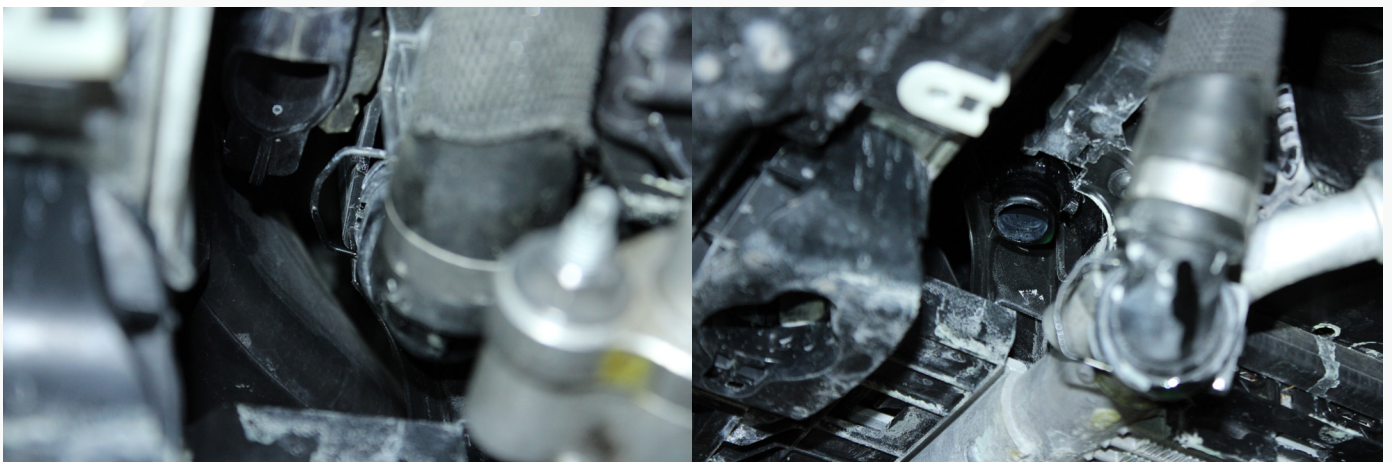




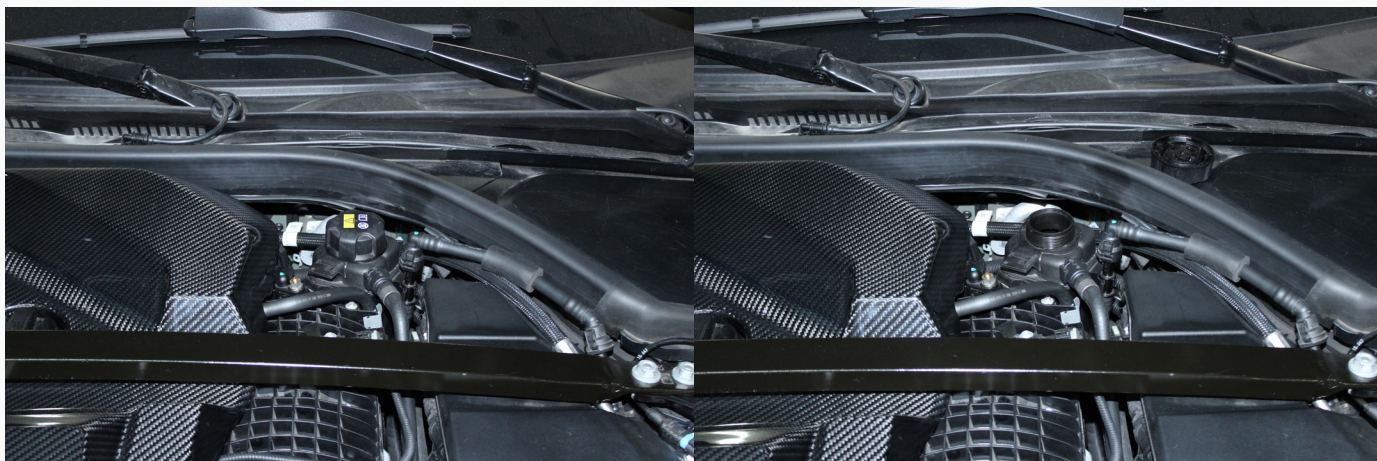
3. Locate the lower heat exchanger fitting and place a coolant catch can underneath.



4. With the engine cool, carefully disconnect the lower heat exchanger hose by releasing the metal clip and pulling down. Use some silicone spray or penetrating lubricant and aim into the top of the plastic fitting to assist with stubborn ones. Let it drain while you work on the top side.



5. With the line removed and draining, remove the heat exchanger reservoir cap to speed up the draining process.



6. Remove the (6) clips from the top bumper garnish and set the garnish aside.



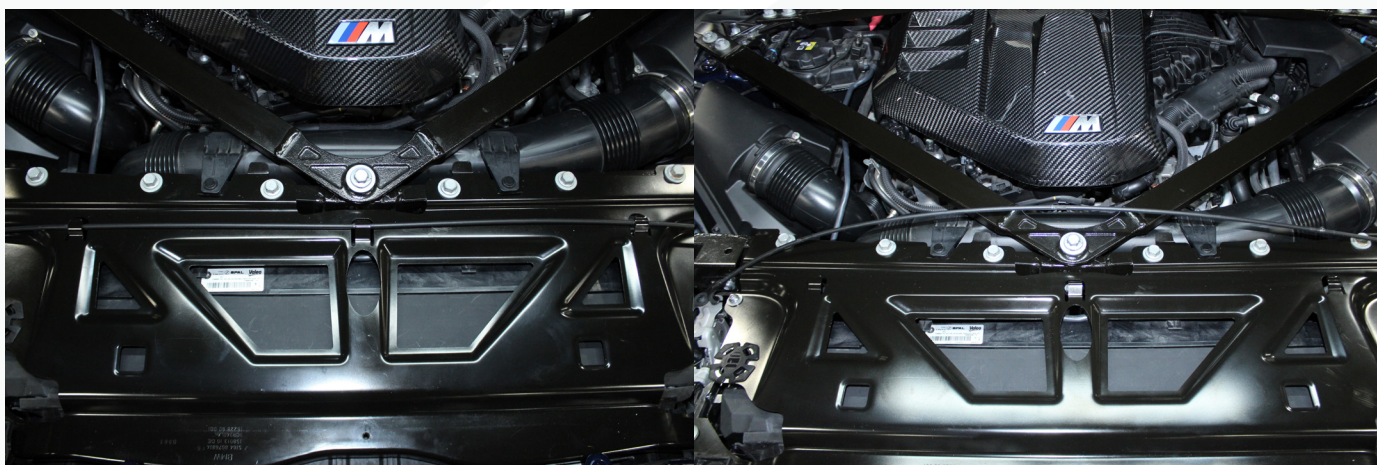
7. Remove the bolts securing the front bumper and the (3) bracket bolts.



8. Carefully pull the front bumper away slightly to reveal the (4) clips. If you are planning to remove the front bumper during your service, the clips are much easier to access with the bumper off.



9. Remove the cable from the (3) metal clips and position the cable out of the way or remove the cable from the passenger side latch.



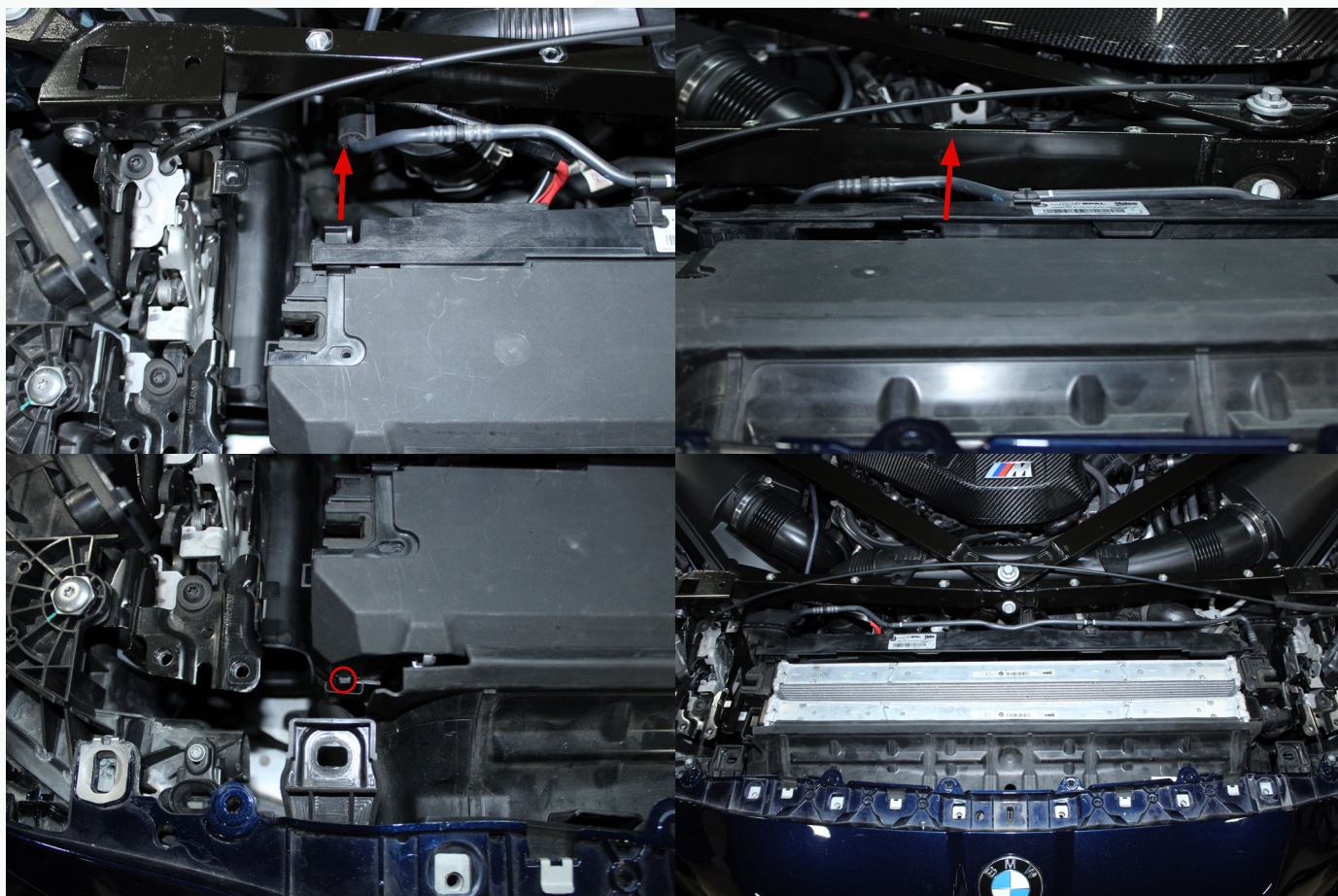
10. Remove (6) hex, (4) T40, and (2) T30 bolts. Remove the radiator support cover and set it aside.



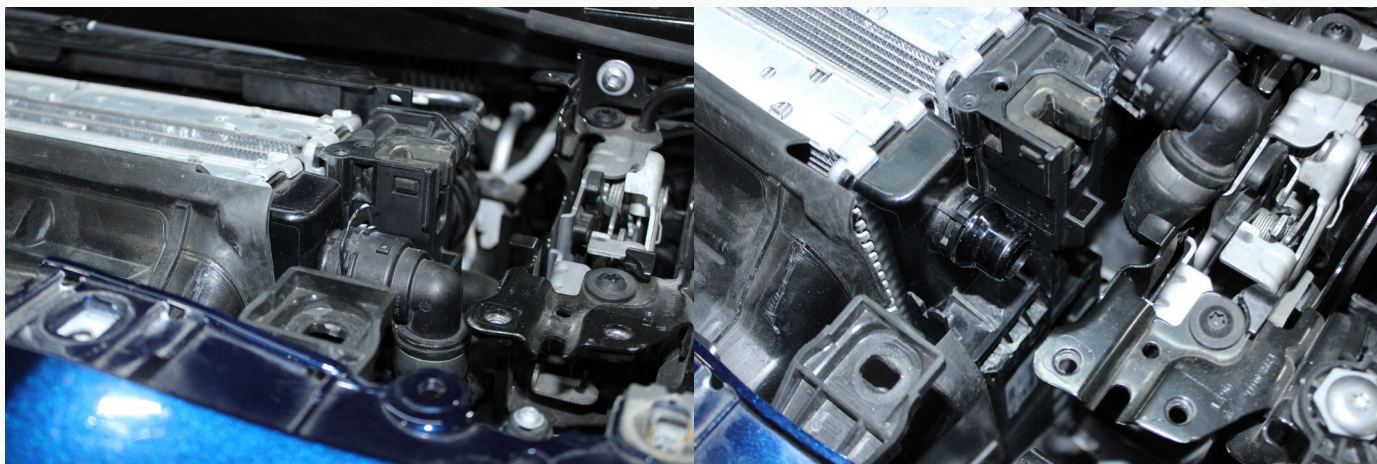
11. Remove the (3) T30 screws from the plastic cover, (2) on the top, (1) on the side.



12. Release the tab on the side of the fan assembly and lift it up about a half an inch. Then release the clip on the plastic cover and remove the cover.



13. Disconnect the upper heat exchanger hose and push it out of the way.



14. There is a small retaining tab on the driver's side of the HX that you can see through the front grill. With a small screwdriver, push that tab in and lift up on the HX. Once the tab is passed the hole you can lift the HX up and out.



ASSEMBLY:

15. Install the AMS HX in reverse order, you may need to tip the fitting side in first to clear the (2) metal hoses on the side near the bottom.

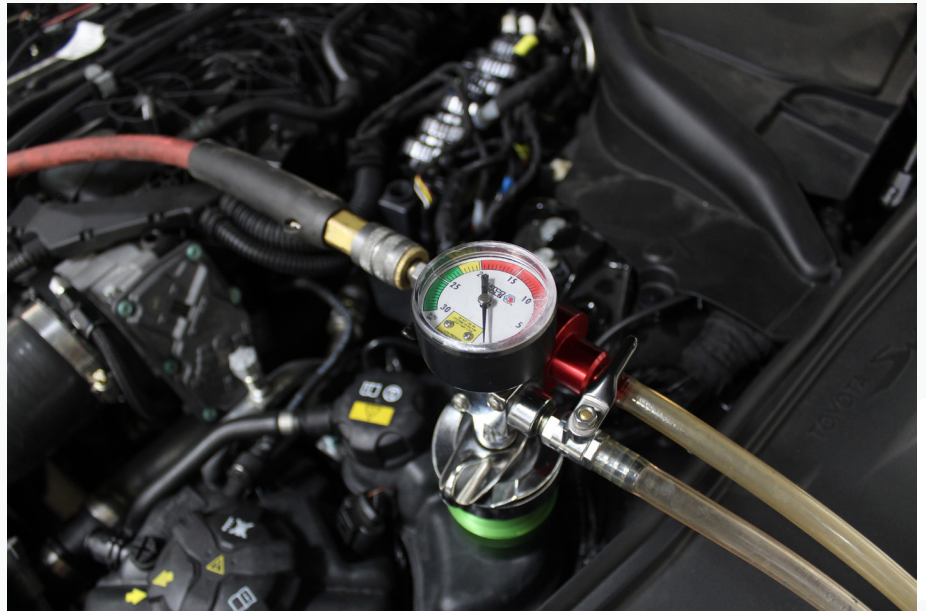


16. Reinstall all removed parts in reverse order.



BLEEDING:

Once the car is back together, you will need to vacuum bleed the system to ensure it is properly refilled. The intercooler system on these vehicles is difficult to bleed to avoid an “air lock” condition due to the intercooler being the highest point. Since the intercooler pump is not self-priming, it cannot move air. If one part of the system has an air pocket near the pump, no coolant will flow. It is also important to know that damage may occur to the intercooler pump if it’s ran dry. Avoid this at all cost! Standard



filling procedures will not work for this application. The method we prefer uses a widely available system called an Air Lift or Vacuum Venturi System. These systems use compressed air to draw the cooling system under a vacuum and remove all the air from the system. The vacuum then draws in coolant into the entire system. Almost no bleeding is required after.

<https://www.matcotools.com/catalog/product/MCR103A/COOLING-SYSTEM-FILLER/>
<https://www.matcotools.com/catalog/product/MPT0445/COOLING-SYSTEM-ADAPTER-BMW/>

- Follow your tools manufacturer instructions for bleeding.
- After completion, test drive the vehicle and check the fluid level in the reservoir.
- Once the system is properly bled, Enjoy!