



Performance Charge Pipe Kit

Part Number: 17-159

2020-2024 BMW M240i 3.0L Turbo
2020-2024 BMW M340i 3.0L Turbo
2021-2024 BMW M440i / M440i Gran Coupe 3.0L Turbo
2020-2023 BMW 540i 3.0L Turbo
2020-2022 BMW 740i / 745e 3.0L Turbo
2020-2024 BMW 840i / 840i Gran Coupe 3.0L Turbo
2020-2024 BMW X3 / X4 3.0L Turbo
2020-2023 BMW X5 / X6 3.0L Turbo
2020-2022 BMW X7 3.0L Turbo
2020-2024 BMW Z4 3.0L Turbo
2020-2024 Toyota GR Supra 3.0L Turbo

Installation Instructions

For technical inquiries please email us at tech@hpsperformance.com

In the email, please include the following information for faster response:

- Year / Make / Model / Engine of your vehicle
- If it is a fitment issue, please include pictures showing the fitment problem
- If there are missing parts, please list the part number(s) from the bill of materials on the 2nd page
- Optional but recommended – Your contact phone number and preferred call back time

You can also give us a call via 626-747-9200 for tech support Monday-Friday, 9:00am-5:00pm Pacific Time.

Bill of Materials

Kit Number: 17-159

Line #	Description	Part Number	Qty
1	Upper Charge Pipe	529-963	1
2	Lower Charge Pipe	529-964	1
3	Reducer Coupler, 2.50" - 3.00", 3.00" Long	P3SR-250-300-L3	1
4	Embossed Hose Clamp, 50mm - 70mm	EMSC-50-70	1
5	Embossed Hose Clamp, 70mm - 90mm	EMSC-70-90	1
6	Bolt, M6 x 1.0, 16mm Long	HW-B6-16	1
7	NPT Plug, 1/8"	4464K561	1

- Before installing any parts of this charge pipe kit, please read the instructions thoroughly.
- Verify the contents of this charge pipe kit before disassembling your vehicle.
- DO NOT INSTALL IF ANY PARTS ARE MISSING OR DAMAGED. CONTACT tech@hpsperformance.com IMMEDIATELY. WE ARE NOT RESPONSIBLE FOR ANY DAMAGE CAUSED DUE TO IMPROPER INSTALLATION.
- Installation requires moderate mechanical skills. A qualified mechanic is highly recommended.
- Do not attempt to install the charge pipe kit while the engine is hot.
- This installation may require removal of coolant lines that may be hot.
- For technical inquiries, please email us at tech@hpsperformance.com

PLEASE READ CAREFULLY BEFORE INSTALLATION!

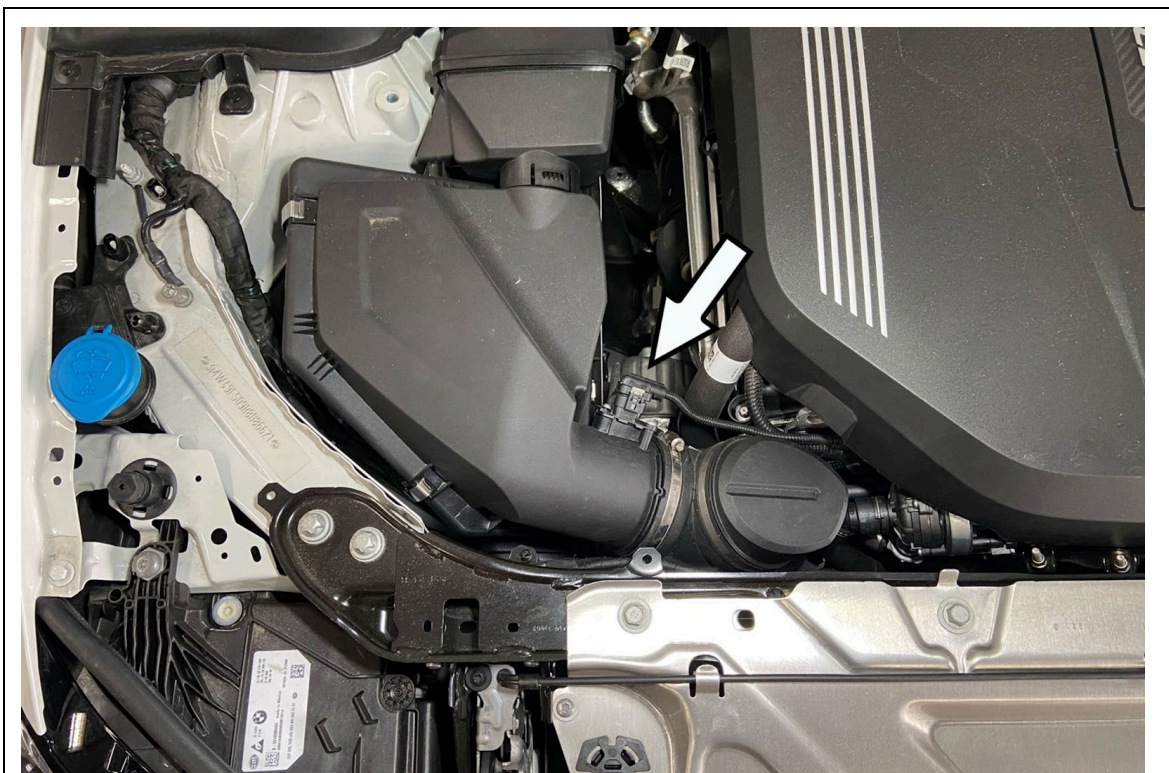
This installation is not for the novice customer. Install this product with EXTREME caution! Misuse of this product can destroy your engine! If you are not mechanically inclined, please have a professional automotive mechanic install this kit.

NOTE: HPS holds no responsibility for any engine damage that results from misuse of this product.

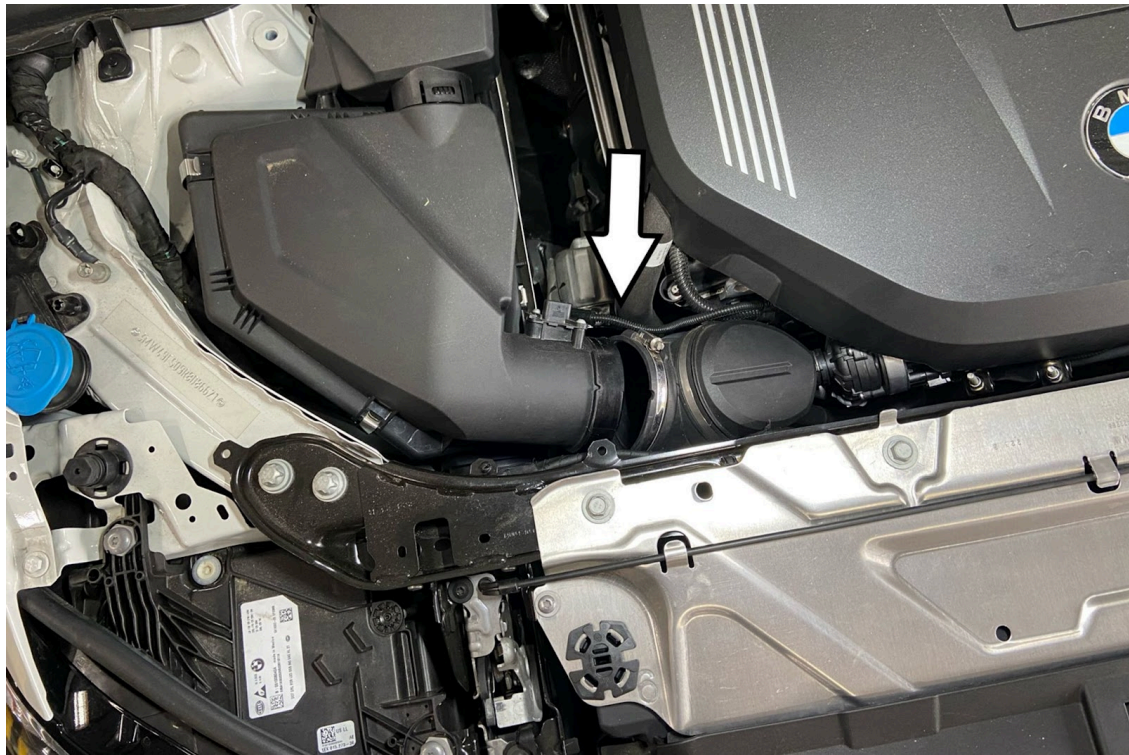
GETTING STARTED

1. Turn the ignition OFF and disconnect the vehicle's negative battery cable. If the engine has run within the past two hours, let it cool down.

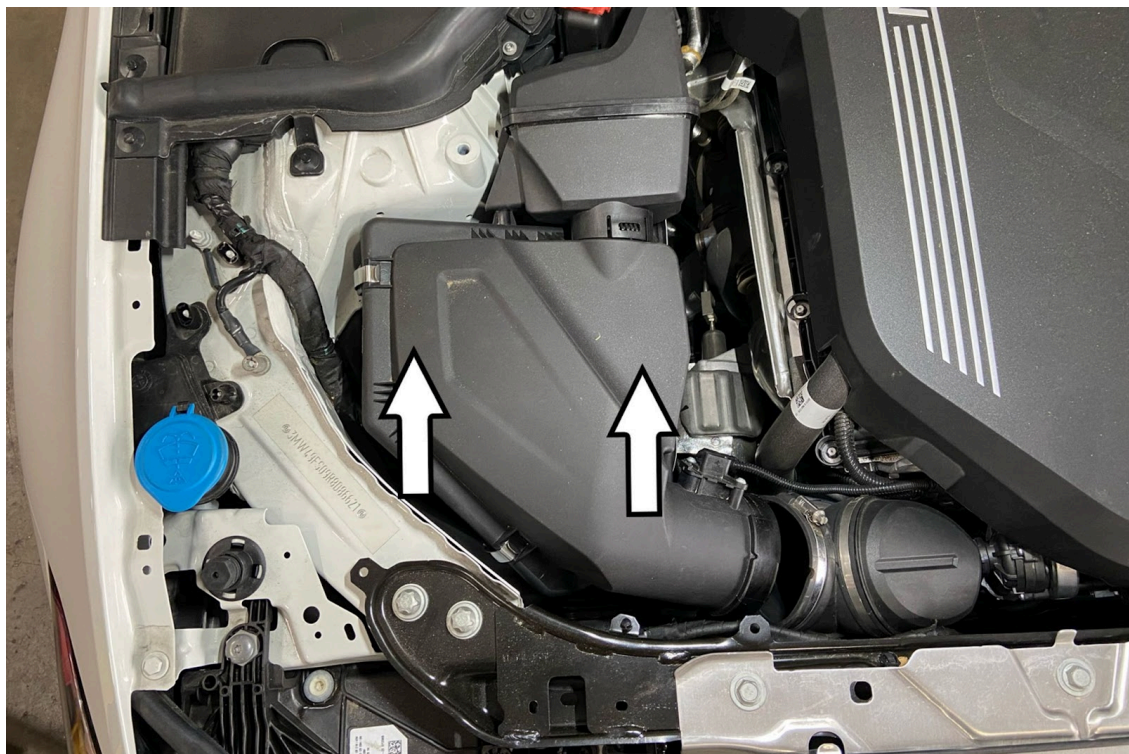
NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicle's anti-theft code cannot be recovered, contact an authorized dealership to obtain your vehicle's anti-theft code. We also highly recommend NOT discarding any stock parts after the installation.



2. Disconnect the mass air flow sensor electrical connector.



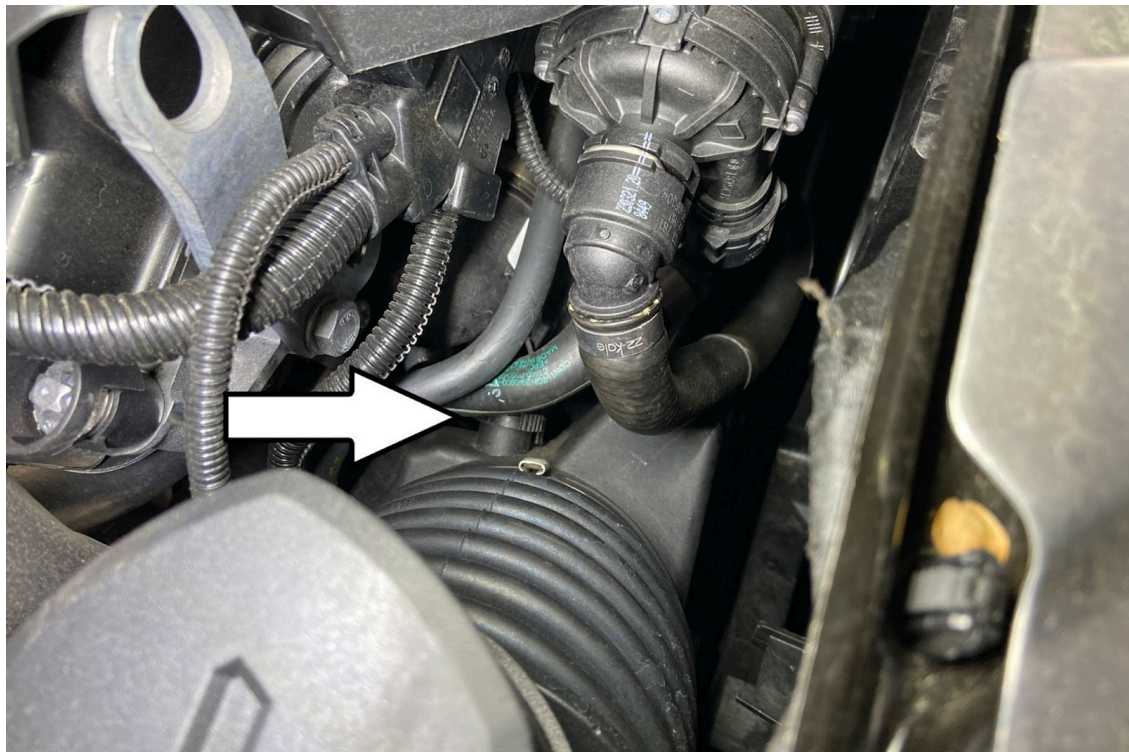
3. Loosen the hose clamp to disconnect the intake hose from the air box assembly.



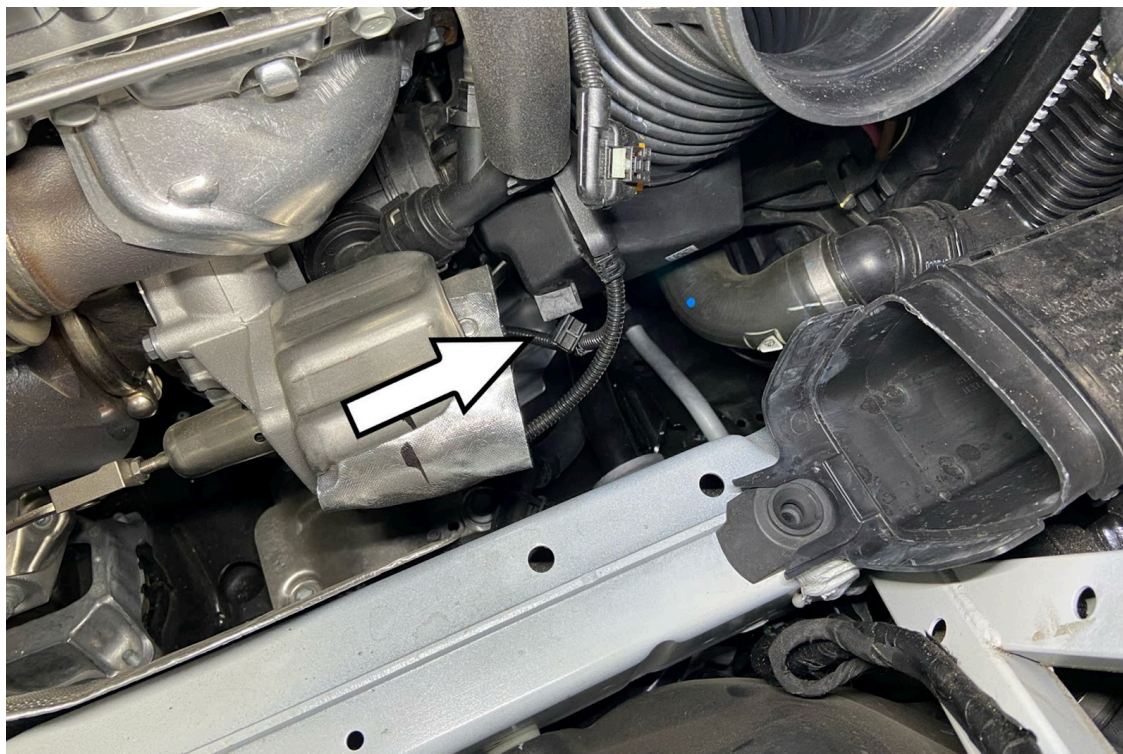
4. Lift the air box assembly from its grommets.



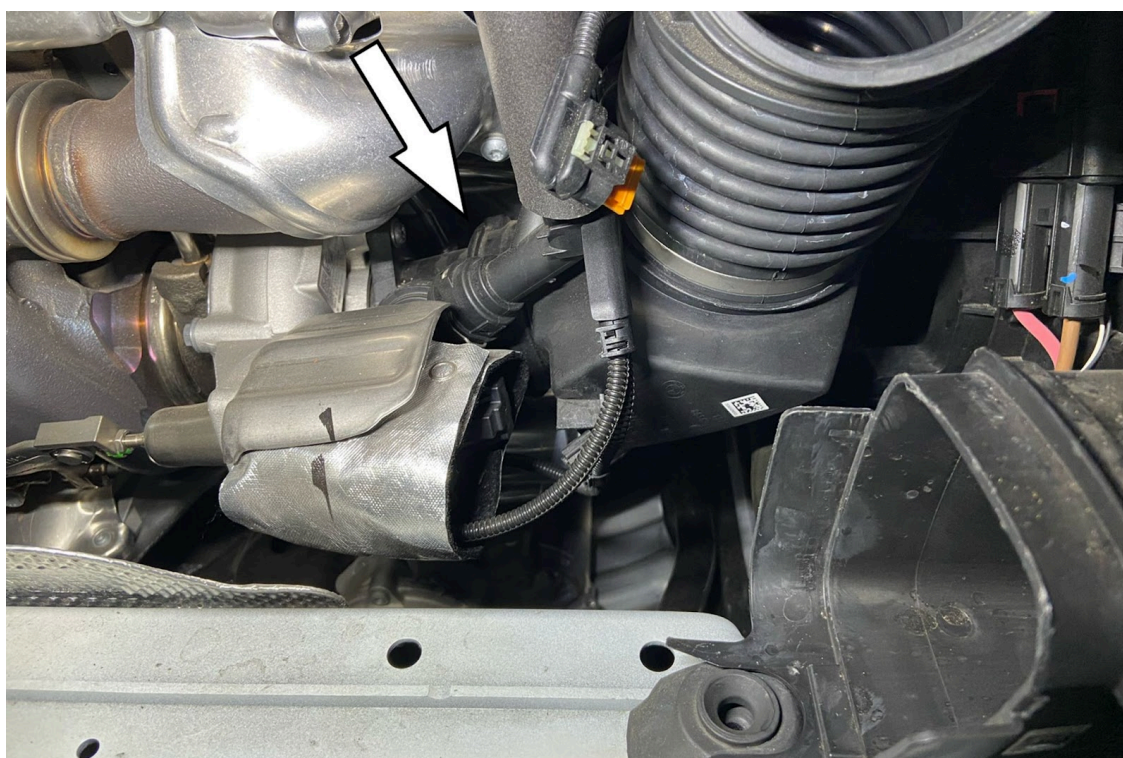
5. Remove the air box assembly from the vehicle.



6. Disconnect the crank case breather hose from the intake tube.



7. Disconnect the electrical harness clip from the intake tube.



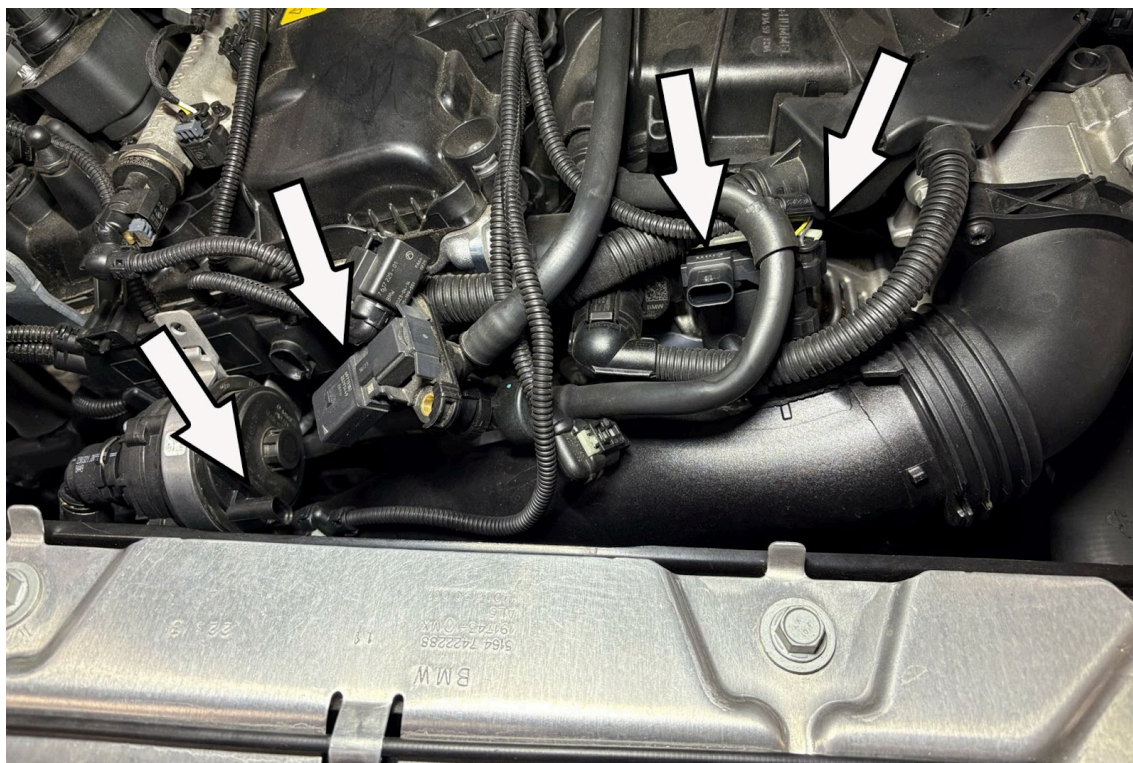
8. Using a flat head screwdriver, push down on the retaining clip to separate the intake tube from the turbo inlet.



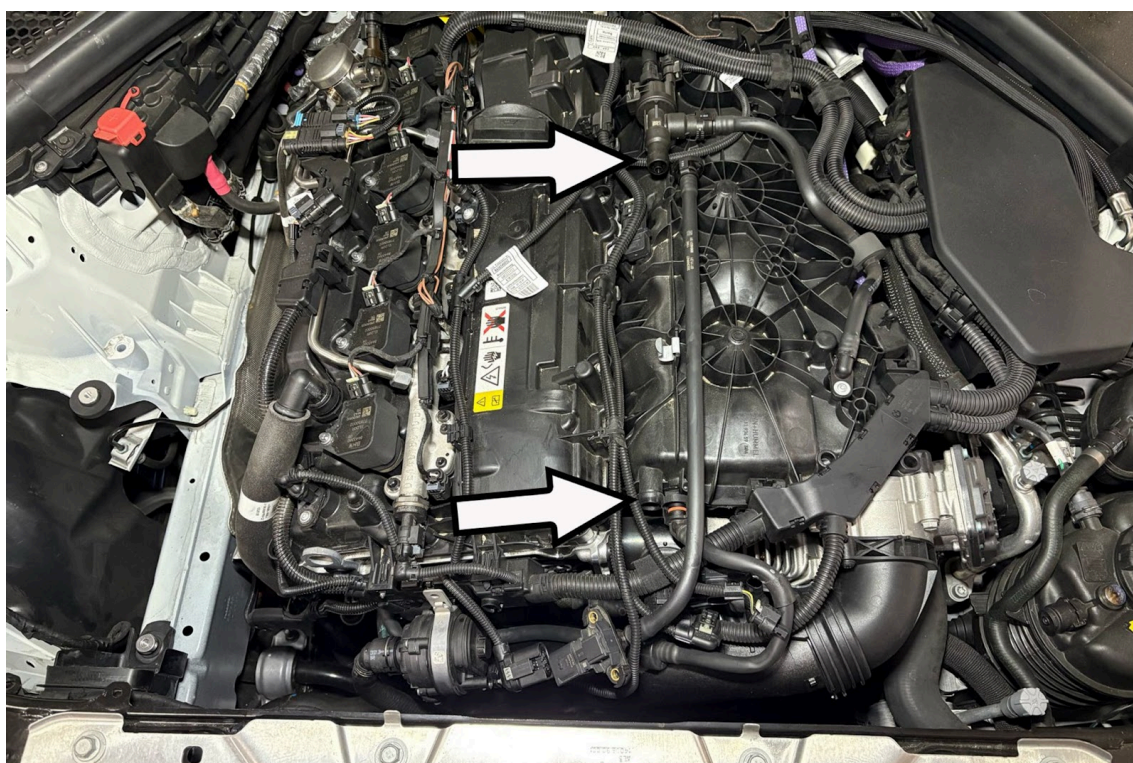
9. Remove the intake tube from the vehicle.



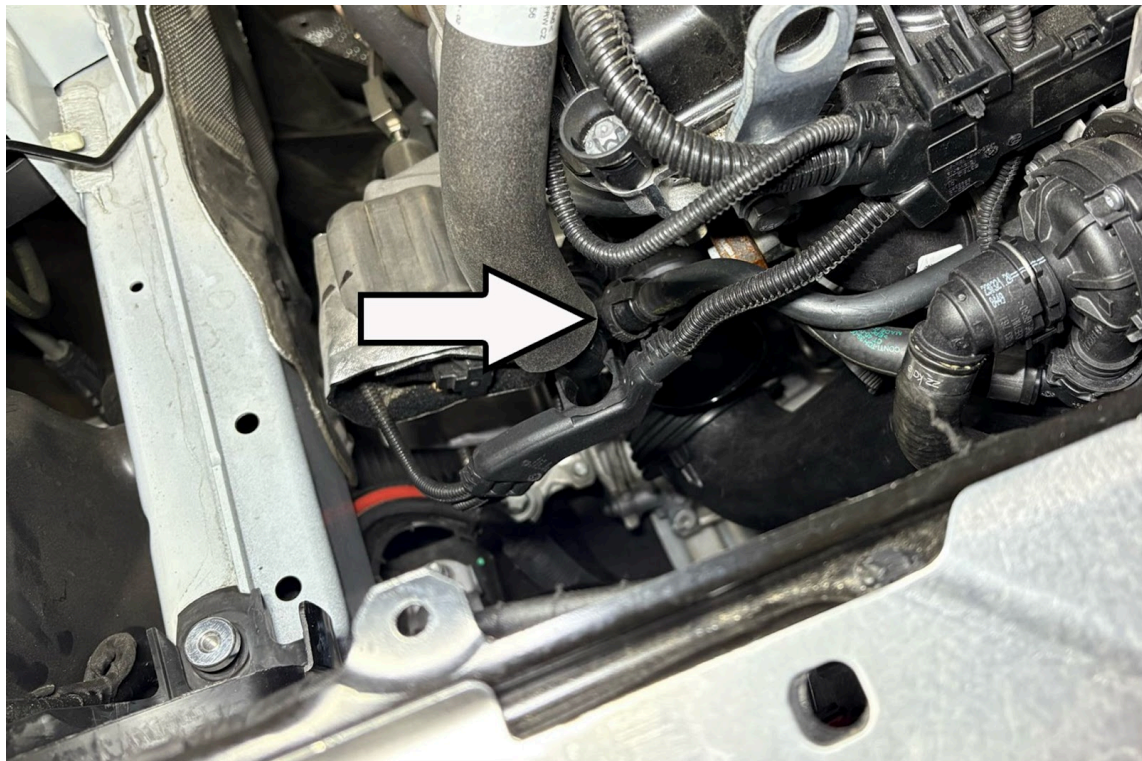
10. Remove the engine cover.



11. Disconnect the four electrical harness connectors at the points indicated above.



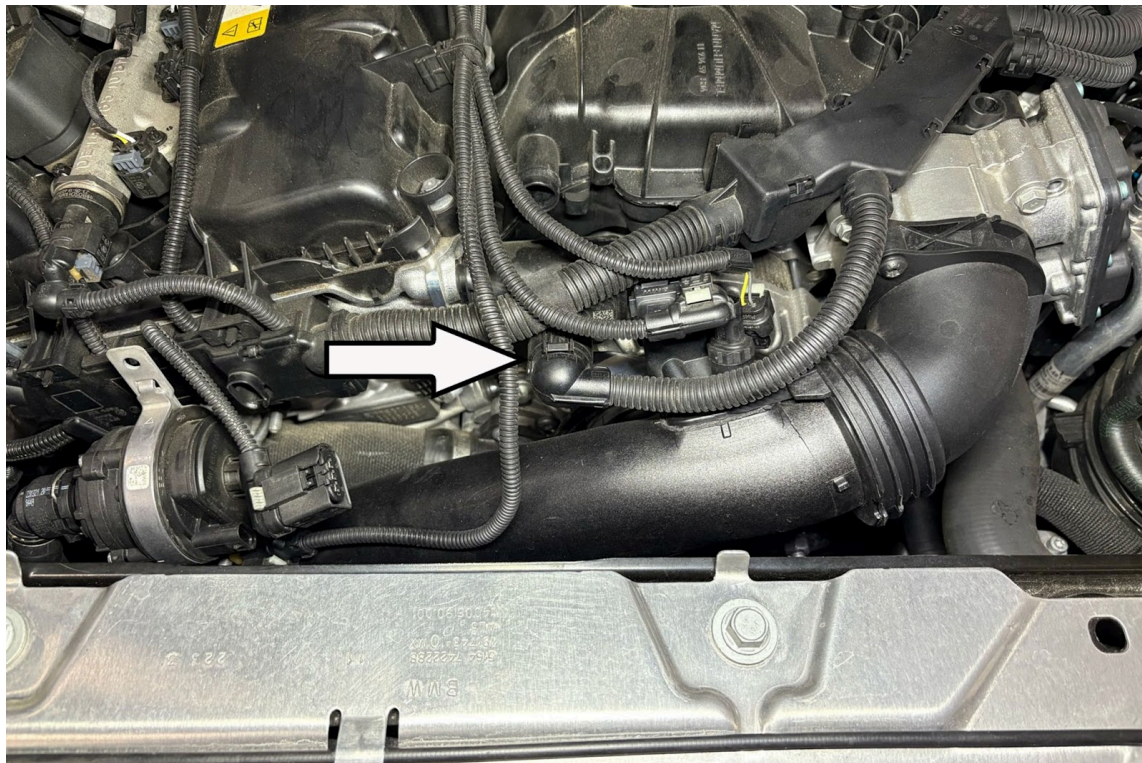
12. Disconnect the pressure sensor ventilation lines at the points indicated above.



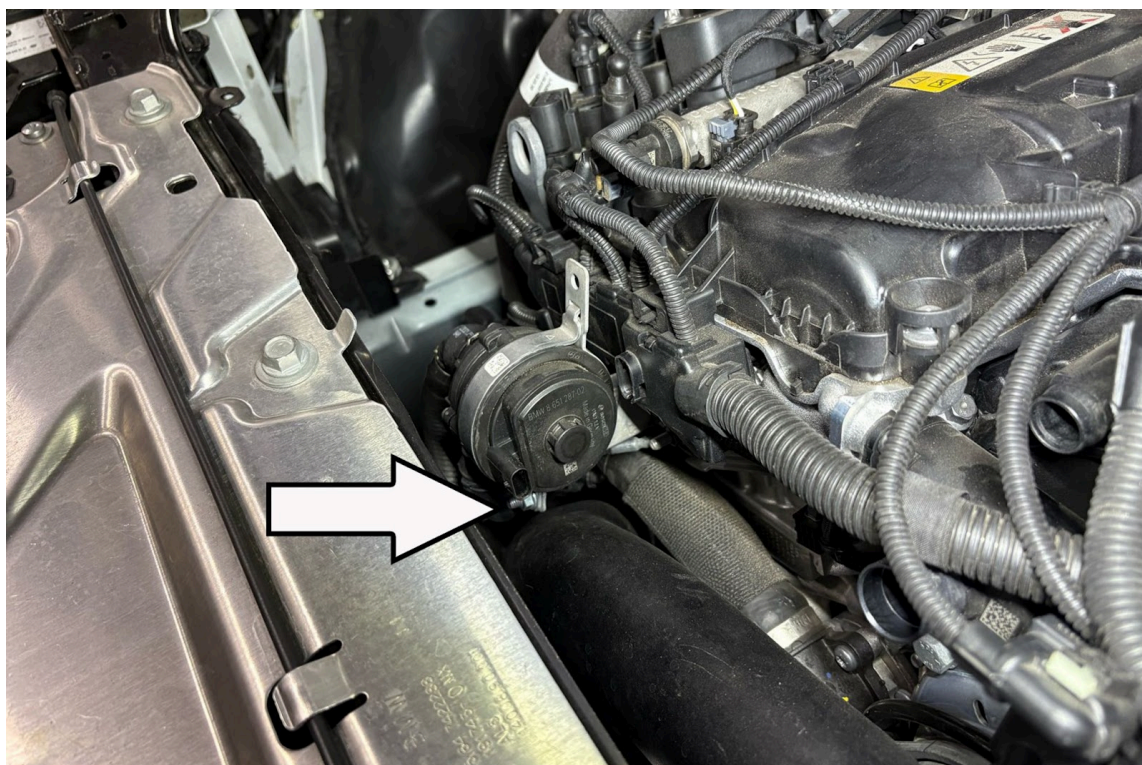
13. Disconnect the pressure sensor ventilation line at the point indicated above.



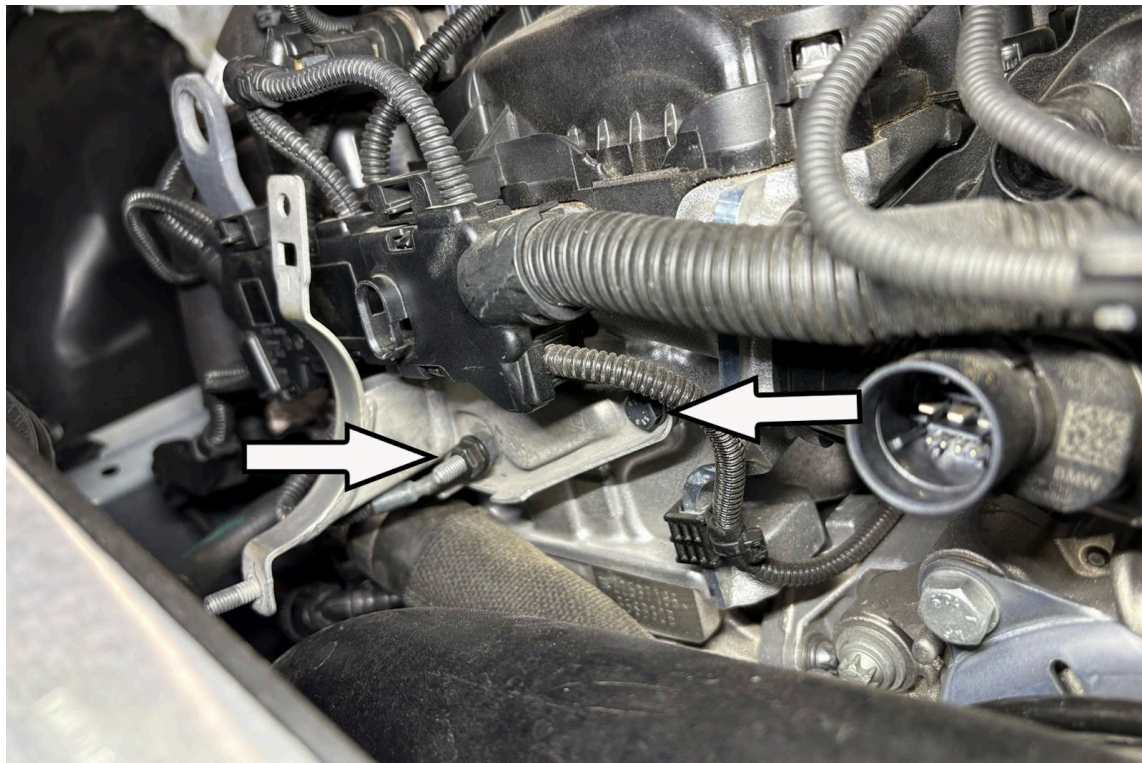
14. Remove the pressure sensor ventilation line assembly from the vehicle.



15. Disconnect the electrical harness connector at the point indicated above.



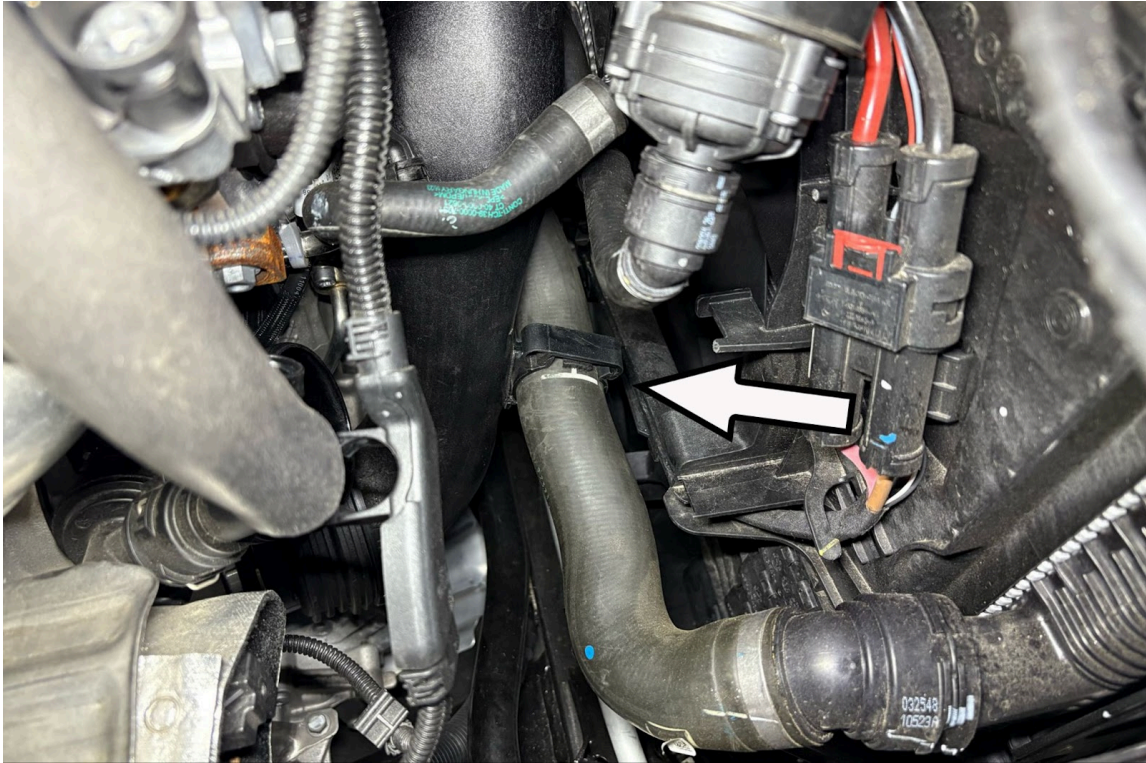
16. Remove the 10mm bolt securing the auxiliary coolant pump bracket. Remove the bracket from the vehicle and set the coolant pump aside.



17. Remove the bolt and nut securing the rest of the coolant pump bracket from the engine.



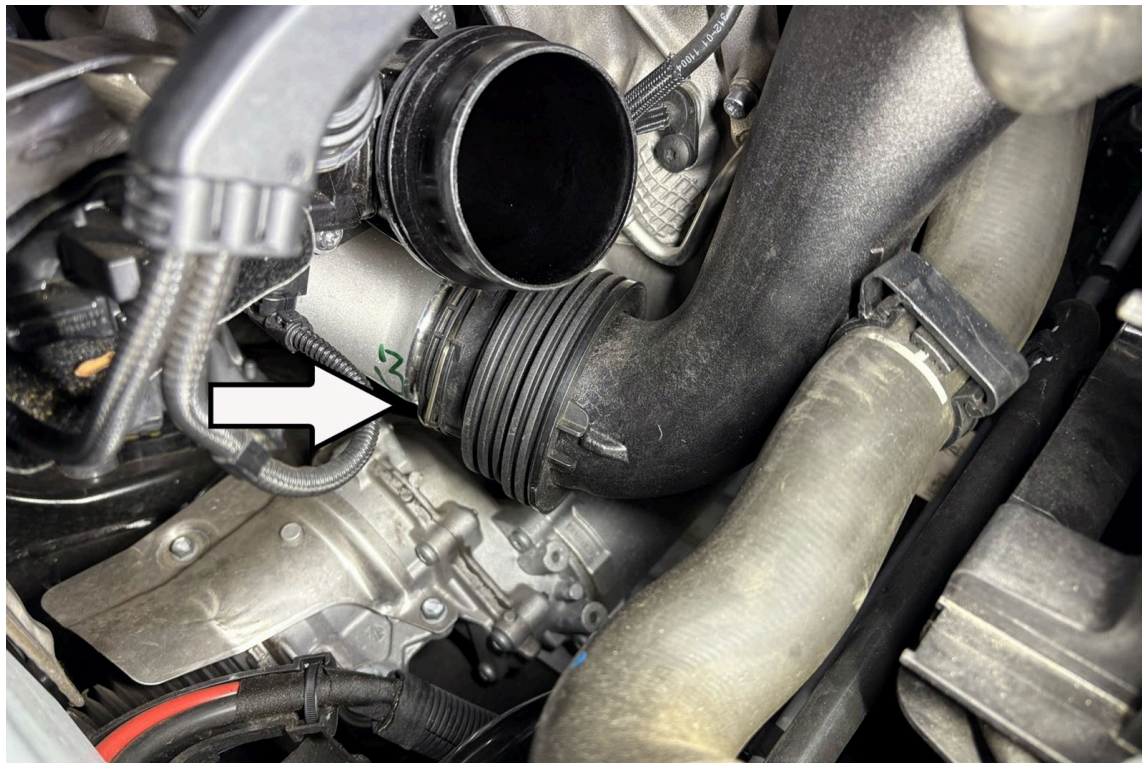
18. Remove the bracket from the vehicle.



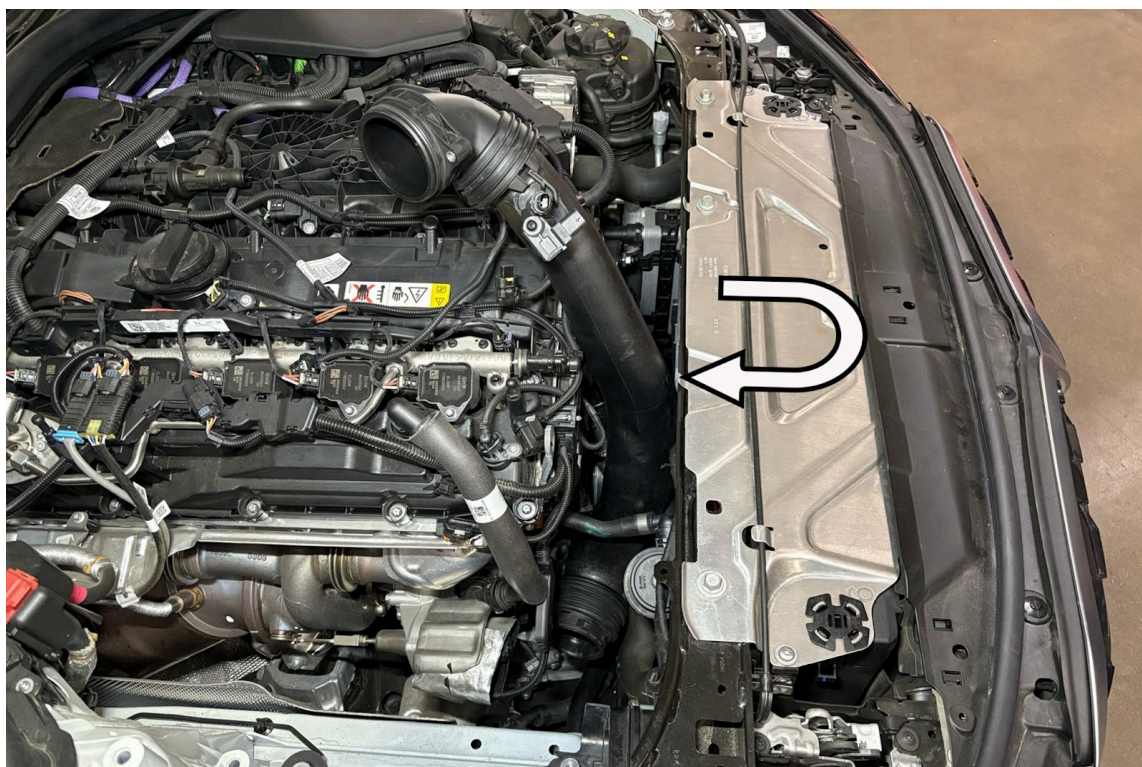
19. On vehicles equipped with the coolant hose attached to the factory charge pipe, unclip the mounting bracket.



20. Remove the two bolts securing the charge pipe to the throttle body.



21. Remove the retaining clip securing the lower charge pipe quick-connect to the turbo outlet.



22. Carefully, remove the lower radiator hose from the charge pipe and rotate the charge pipe to free it from the vehicle.



23. Remove the factory charge pipe from the vehicle.



24. Remove the factory O-rings and sensors from the charge pipe.



25. Set aside the factory O-rings and sensors.



26. Insert the green factory O-ring and retaining clip into the quick-connect on lower HPS charge pipe.



27. Secure the provided reducer coupler onto the lower HPS charge pipe using EMSC 50-70 clamp.



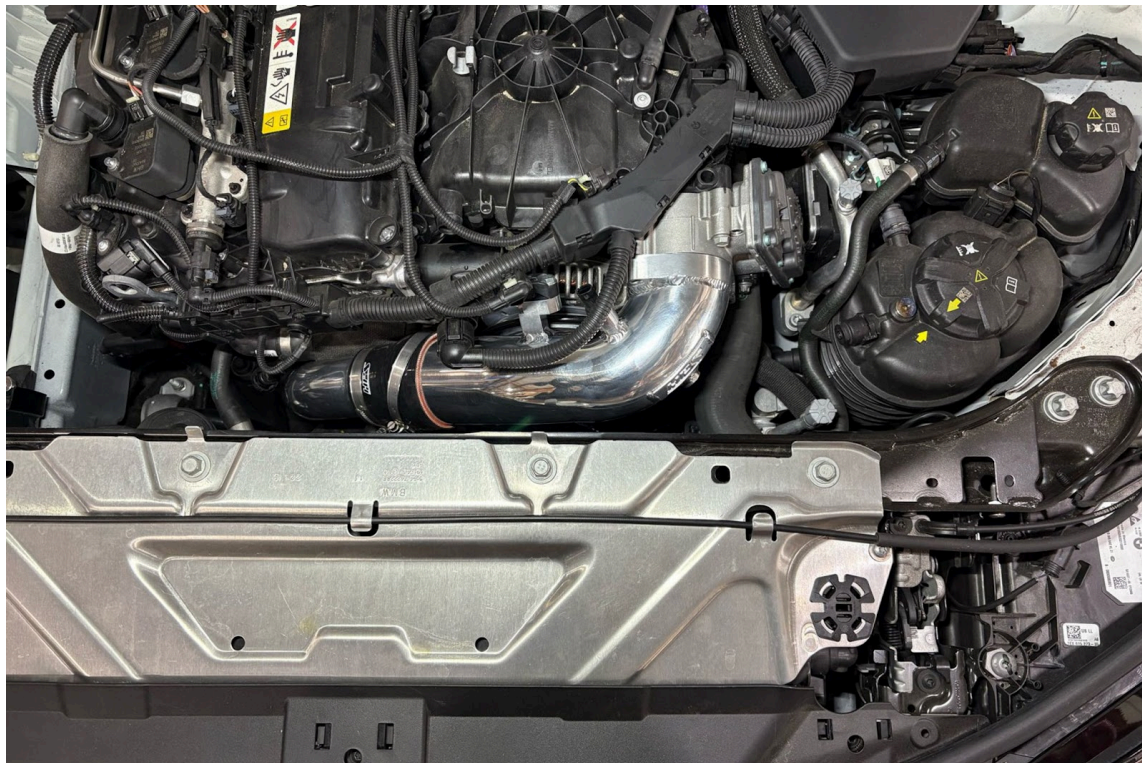
28. Secure the lower HPS charge pipe onto the turbo outlet.



29. Secure the factory throttle body O-ring and sensors onto the upper HPS charge pipe. Secure the MAP sensor using the provided M6x16mm bolt.



30. Secure the NPT threaded plug onto the NPT port.



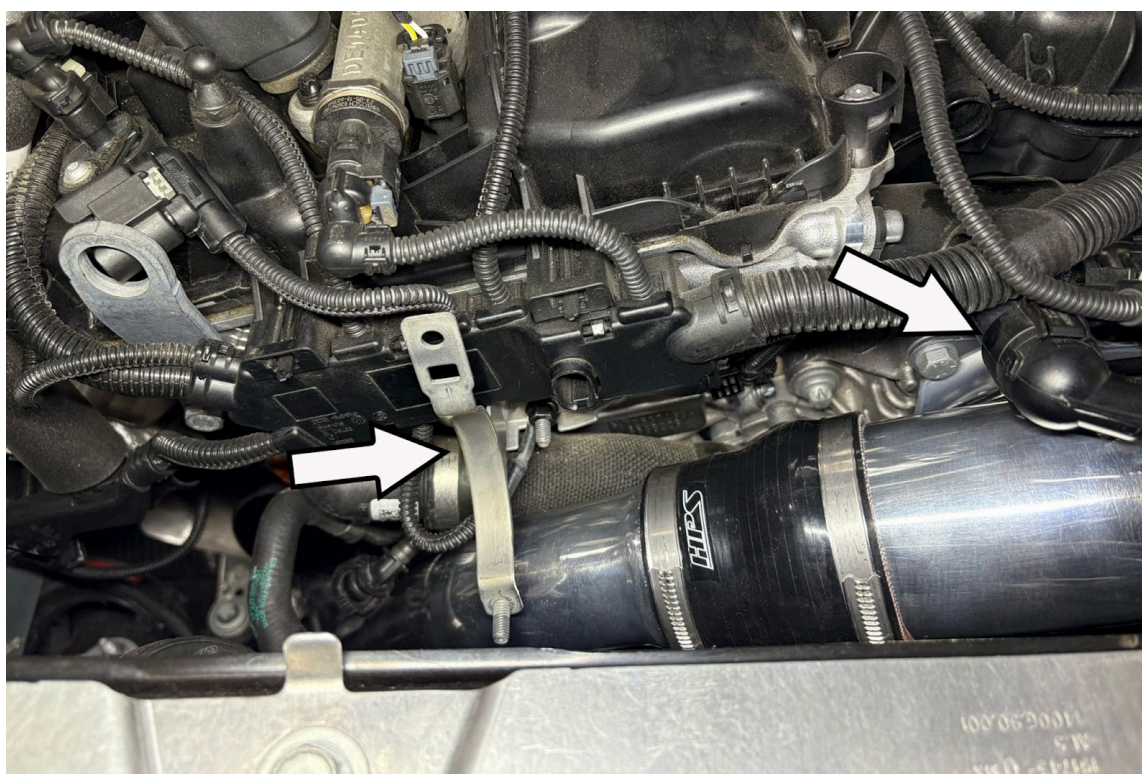
31. Insert the upper HPS charge pipe into the reducer coupler using the provided EMSC 70-90 clamp.



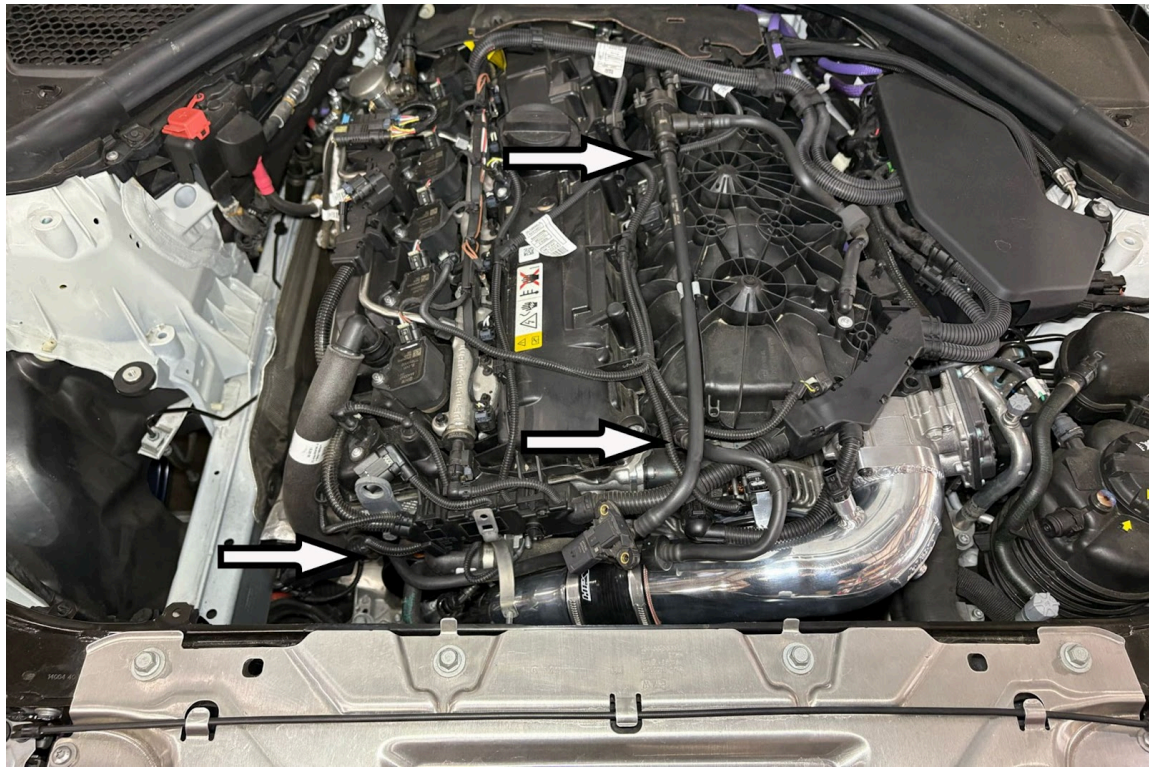
32. Secure the upper charge pipe to the throttle body using the factory bolts removed in step 20.



33. Secure the hose clamps once the pipes are properly positioned.



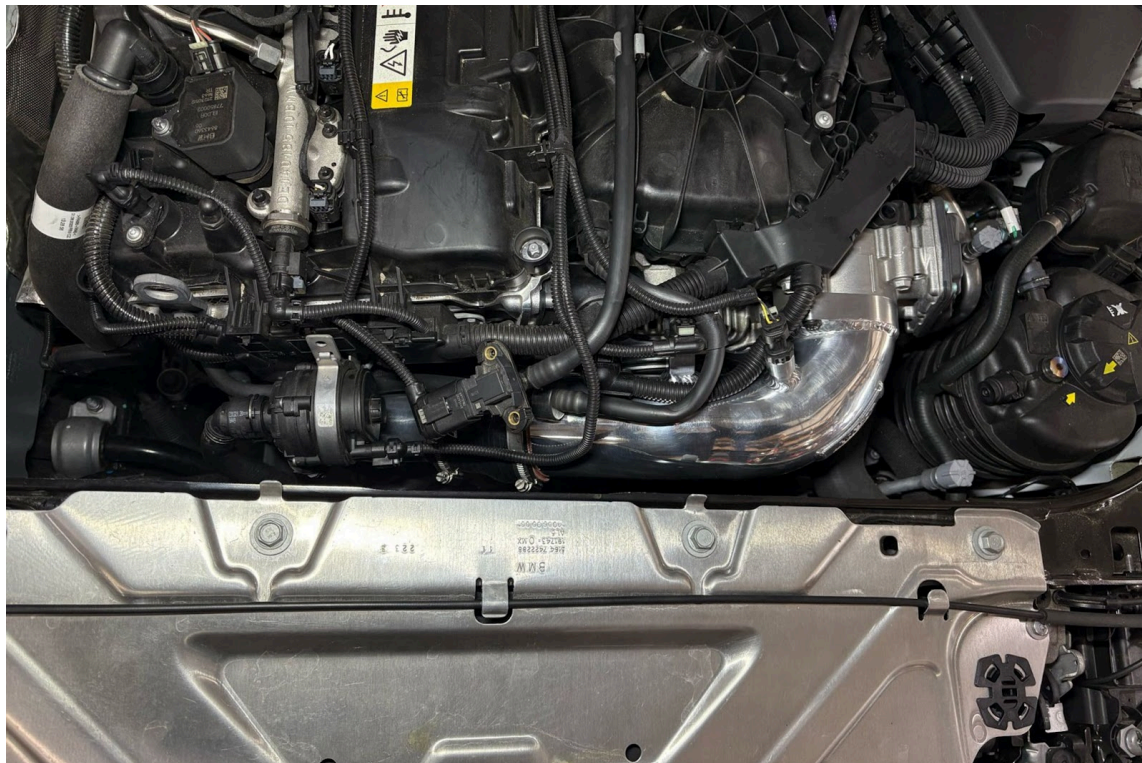
34. Reinstall the coolant pump bracket back onto the engine using the factory hardware removed in step 17. Reconnect the electrical harness connector.



35. Secure the ventilation line assembly back onto the engine.



36. Secure the coolant pump assembly back onto the bracket.



37. Reconnect the electrical harness connectors to the sensors.



38. Reinstall the intake system back into the vehicle.



39. Reinstall the engine cover.

FINAL STEPS

Once the charge pipe has been positioned, tighten all of the clamps and secure all of the parts.

Upon completion of the installation, reconnect the negative battery terminal before you start the engine. Double check to make sure everything is tight and properly positioned before starting the vehicle.

Start the engine. Let the car idle for 3 minutes. Perform a final inspection before driving. Listen carefully for any odd noises, rattles and/or air leaks prior to taking it for a test drive. If any problems arise go back and check the vacuum lines, hoses and clamps that may be causing leaks or rattles and correct the problem.

Periodically, recheck the alignment of the charge pipe kit and make sure there is proper clearance around and along the length of the pipes. Failure to follow proper maintenance procedures may cause damage to your vehicle and will void the warranty.



Also available for BMW B58 3.0L Turbo powered vehicles:



HPS Performance Air Intake Kit
For M240i / M340i / M440i (includes xDrive
and Gran Coupe)
Part Number [827-771](#)



HPS Performance Air Intake Kit
For X5 / X6 / X7
Part Number [827-702](#)



HPS Performance Stainless Steel Magnetic
Oil Drain Plug
Part Number [MDP-M12x125](#)



HPS Performance Titanium
Coolant Bleed Screw
Part Number [HW22-1001](#)

Contact an authorized HPS Performance dealer or
visit us at hpsperformance.com for more details