

AMS PERFORMANCE V10 BILLET INTAKE MANIFOLD / ALPHA



Audi R8 & Lamborghini Huracan

BILLET INTAKE MANIFOLD

# 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 may not meet the legal requirements for use on public roads. Federal and state laws prohibit the removal, modification, or rendering inoperative of any part or element of design affecting emissions or safety on motor vehicles used for transporting persons or property on public streets or highways. Use or installation of performance parts may adversely affect the drivability and reliability of your vehicle, and may also affect or eliminate your insurance coverage, factory warranty, and/or new OEM part warranty. Performance parts are sold as-is without any warranty of any type. There is no warranty stated or implied due to the stresses placed on your vehicle by performance parts and our inability to monitor their use, tuning, or modification.

These instructions are provided as a guide only as there are many variables that cannot be accounted for concerning your particular vehicle, including but not limited to model year differences, model differences, the presence of non-OEM parts, and modifications that may already be or were previously installed. A basic knowledge of automotive parts and systems is helpful but a better understanding of the parts and systems on your particular vehicle may be required.

If you have any questions or issues at any time during the installation of your AMS Performance product(s) please call us for technical assistance. The AMS Performance tech line can be reached during business hours at 847-709-0530 for AMS Performance products only.

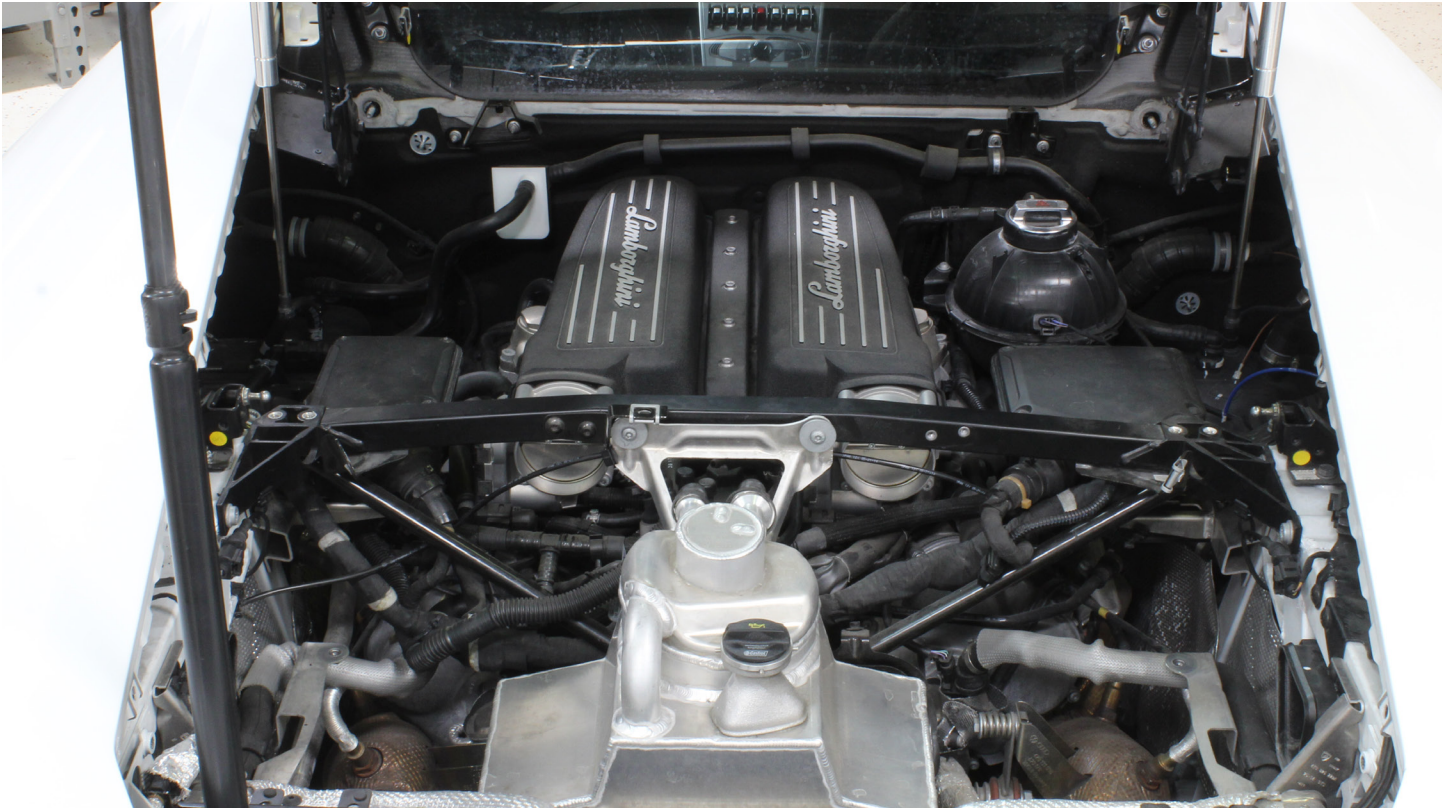
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**04** Disassembly

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1. Remove necessary engine covers.
2. Remove X brace.
3. Loosen the four screw clamps on the intake manifold couplers.
4. Remove the air boxes. This step is optional but does make intake manifold removal easier.

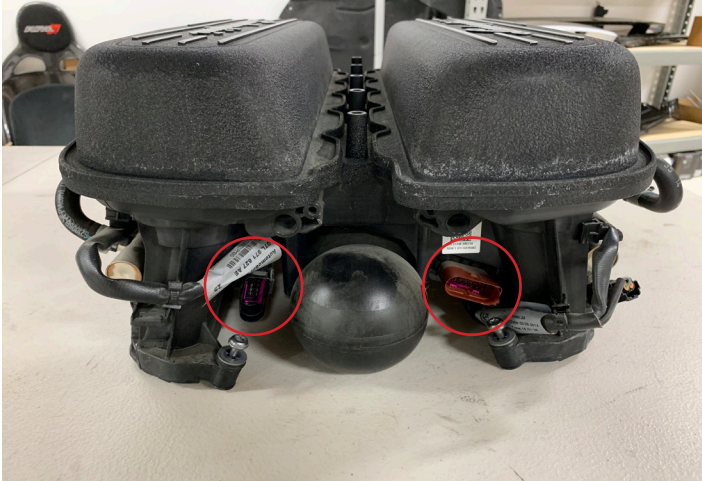


5. Disconnect fuel line on both sides of the manifold and remove bolts holding the hose bracket. Once the bracket is removed you will notice a pressure sensor, disconnect this also.

NOTE: On the passenger side it may be easier to move the coolant reservoir aside to access the fuel line clamp.

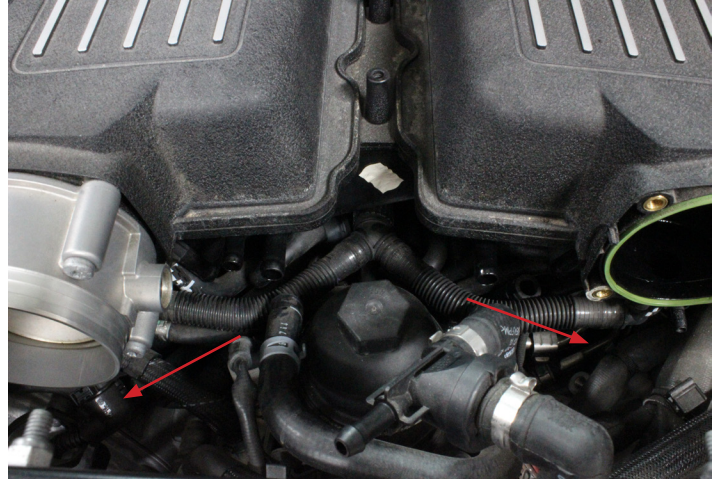


6. Disconnect the 2 connectors on the backside of the manifold near the firewall and the two throttle body connectors. We have shown a manifold off the car to help locate exactly where they are.

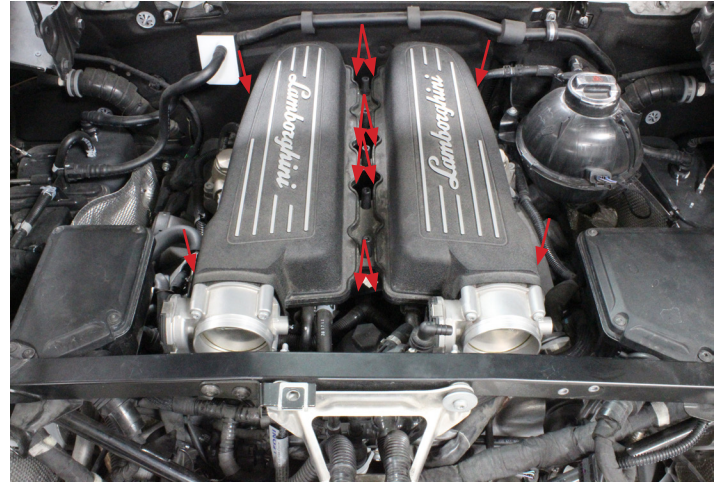
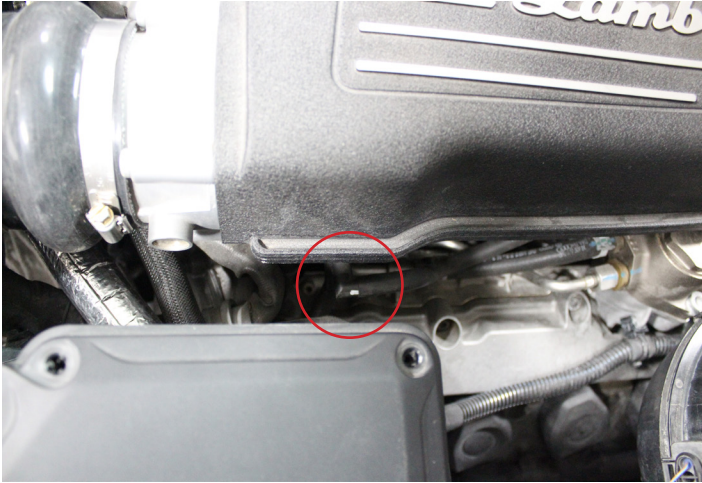


7. Disconnect the five hoses between the throttle bodies. Once you remove the first three you will see two more behind them.

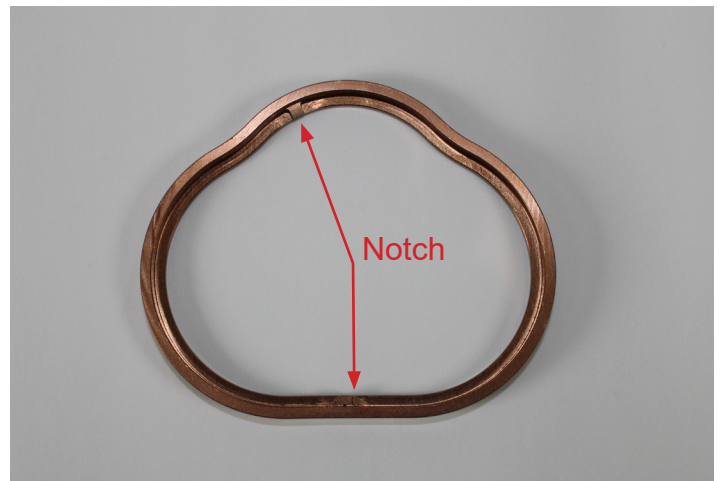
NOTE: It may be easier to access the clamps by removing the passenger throttle body.

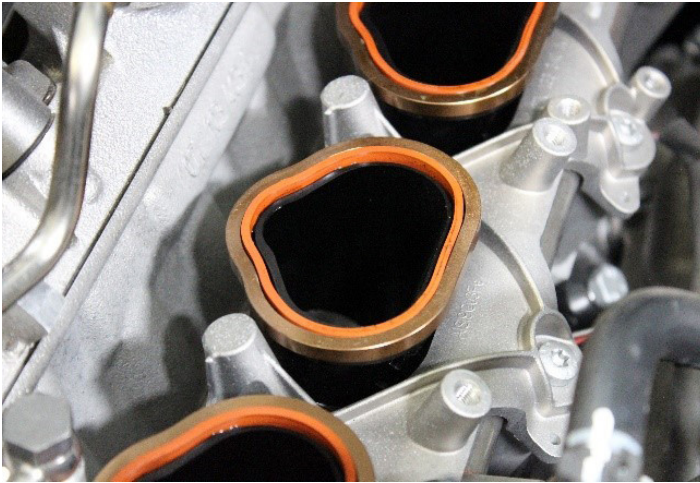


8. Disconnect the 90° vacuum connection below the passenger side fuse box. Then remove the 5 bolts holding on the center intake cover and remove the twelve T30 intake manifold mounting bolts. Remove the manifold.



9. Install the intake runner gasket retainers on each runner. The notch on the underside will fit into the groove on the lower intake runners. NOTE: If you have our turbo kit already you can skip steps 9-10.





10. Remove the OEM intake manifold mounting bolts and locate the provided aluminum spacer and o-rings. Make sure all the OEM rubber grommets are accounted for as there is a chance they can fall off into the intake runners when removing the manifold. Remove the rest of the grommets from the bolts and install the spacers and o rings as shown. The o rings will help hold the bolts in place when installing the manifold. NOTE: The installation of these parts are crucial for proper manifold sealing under boost.



11. Swap over all the parts to the new manifold with the exception of the mounting bolts.

NOTE: This manifold is being setup with Alpha fuel rails, however the stock fuel rails are also designed to work. Also no provisions were made for the vacuum reservoir under the manifold due to the fact that most builds will likely be eliminating it.



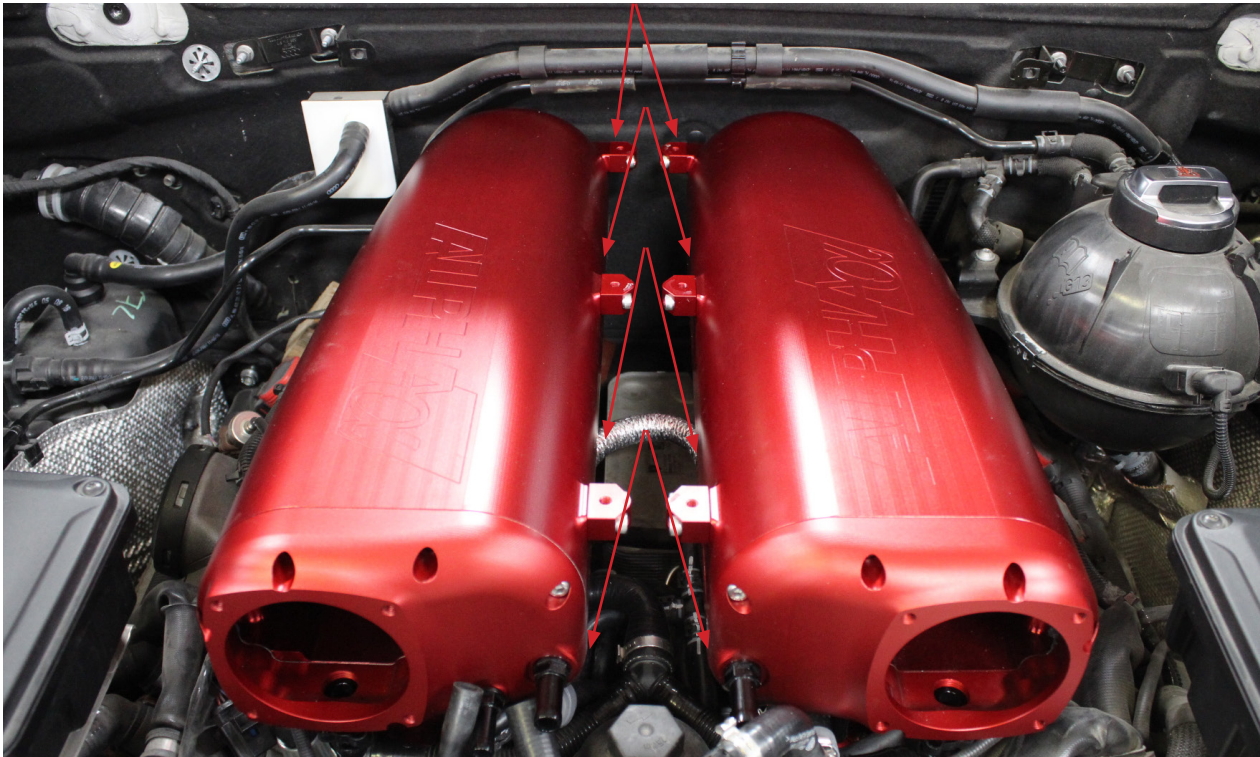
12. Place the manifold into position on the car and loosely install the four outside bolts prepared in step 10 as shown below. You may need to loosen the center six bolts circled below in order to get the manifold fully seated.

NOTE: Be sure no hoses or wiring are pinched underneath the manifold before loosely installing the bolts.





13. With the manifold loosely installed using the four outside bolts, completely remove the center support brace. Then install the remaining manifold hardware prepared in step 10 and then tighten them all down.



14. The bolts for the center brace removed in the previous step were installed with a non-marring washer for shipping. Remove the washer and install the center support brace and hardware.



15. Locate the throttle body gaskets. Line up the notches in the gasket with the notches on the billet and install the throttle bodies reusing the factory hardware.



16. Reconnect all fuel lines, vacuum lines and electrical connections to the manifold and fuel system.

17. Reinstall your intake system as you would any other manifold, then reassemble the car.

18. Enjoy your Alpha V10 Billet Manifold!

