GTR Race FMIC Instructions

V4

The goal of AMS is to provide the highest quality, best performing products available. By utilizing research and development, and rigorous testing programs AMS will never compromise the quality or performance of our products. In addition, AMS will only provide the finest customer service offering only parts and advice that are in the best interests of the customer. AMS 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 product(s) please call us for technical assistance. The AMS tech line can be reached during business hours at 847-709-0530 for AMS products only.

1. Begin by removing the front wheels, under tray, front portion of wheel liners, and front bumper.

2. Remove aluminum bumper support, windshield washer reservoir and oil cooler duct.

3. Remove intercooler and lower portion of intercooler piping.

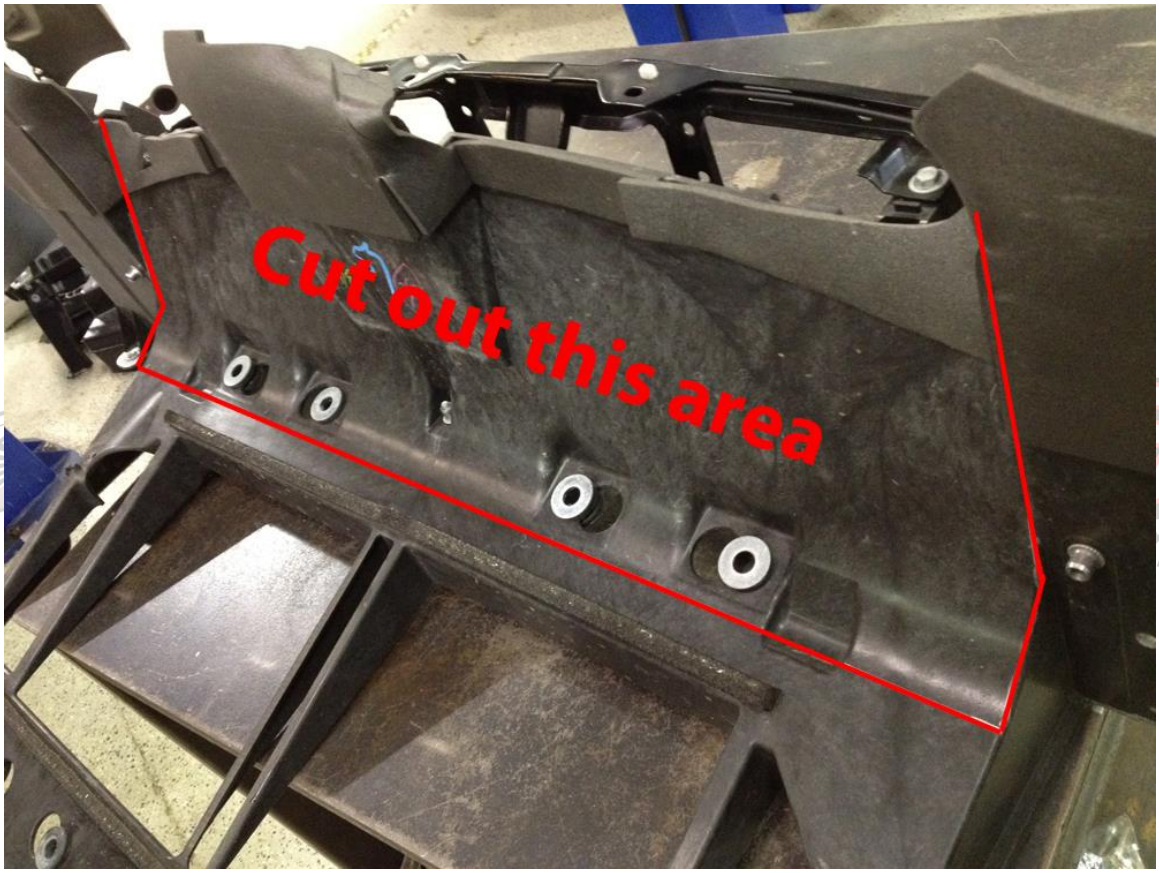
4. Remove wiring harness from core support.

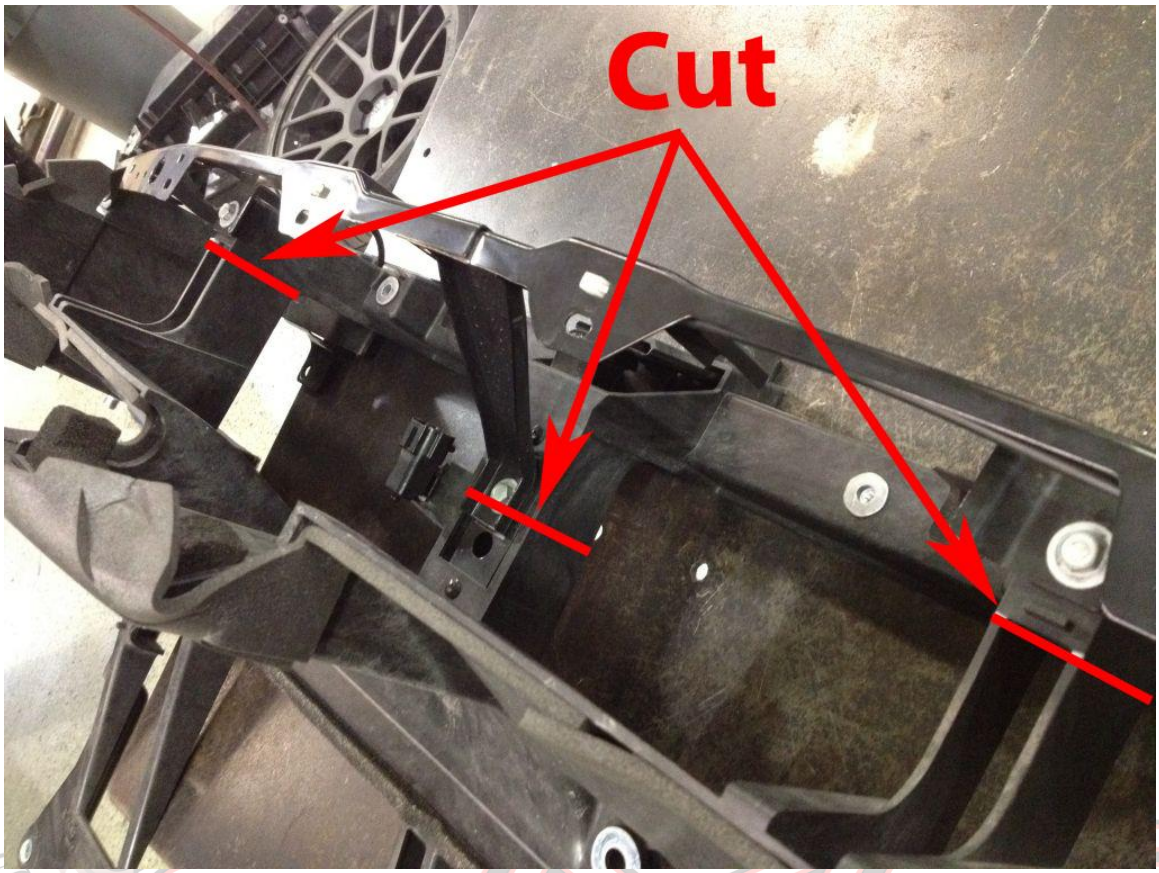
5. Remove horns.

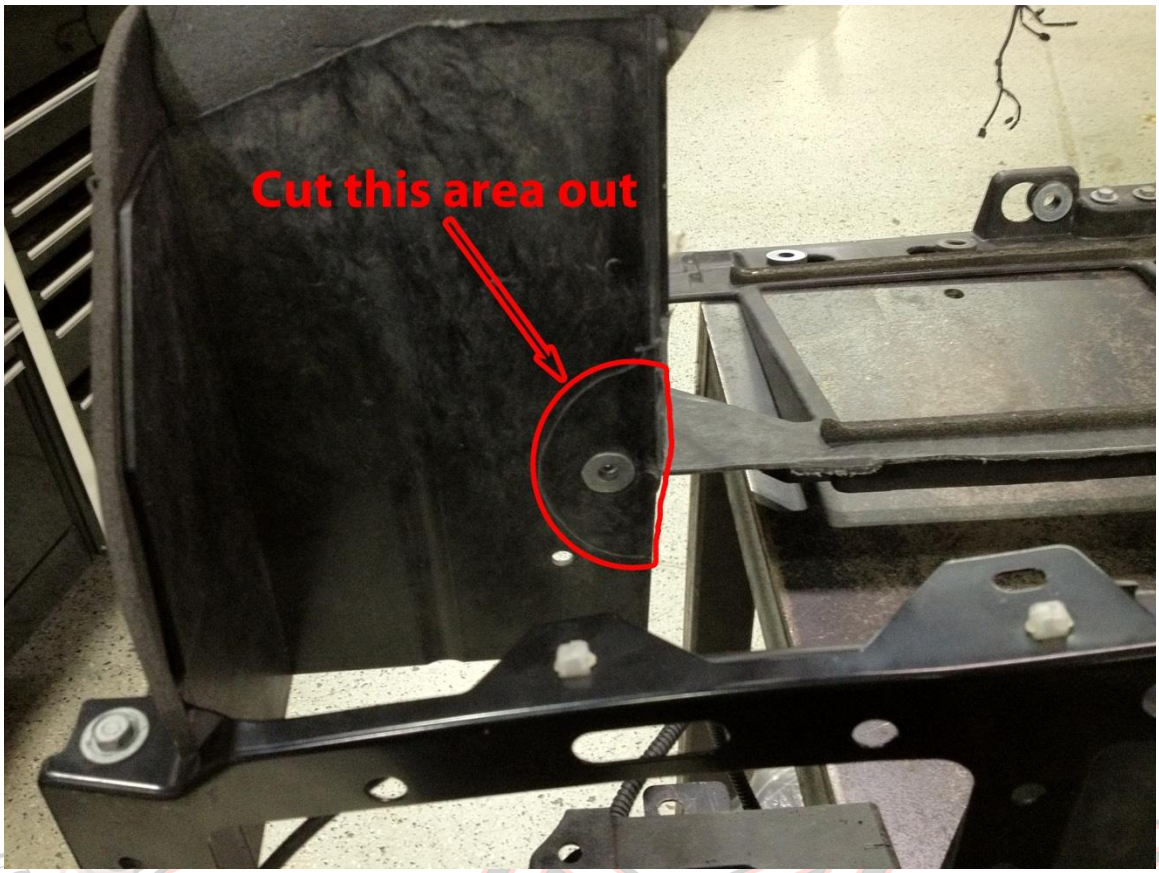
6. Disconnect hood latch cables from 2 to 1 adaptor inside driver's side fender well.

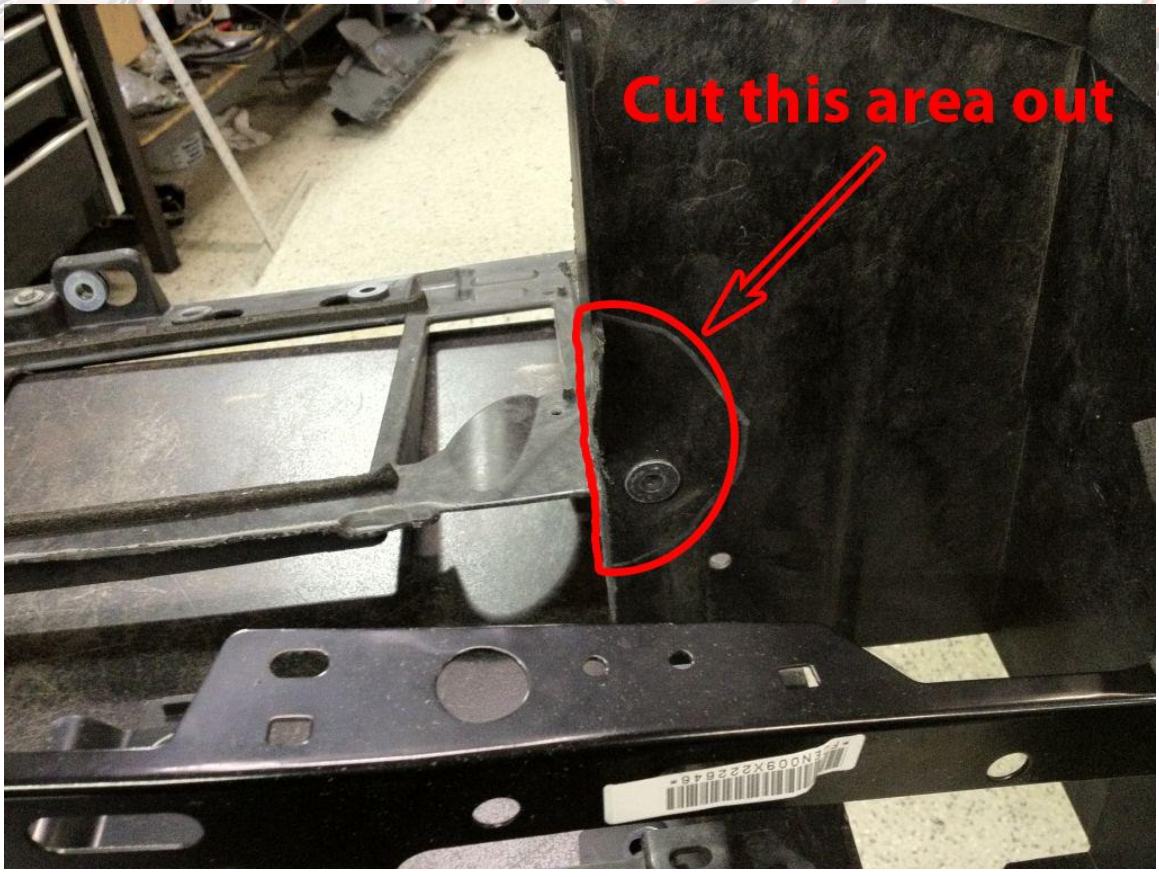
7. You will now be removing the intercooler support. This part is adjustable in that the bolts that hold it to the vehicle are smaller than the holes that they go through so it is recommended to scribe in a few spots to make sure it is reinstalled the same way it was removed. After scribing go ahead and remove the entire support.

8. Cut support as pictured.



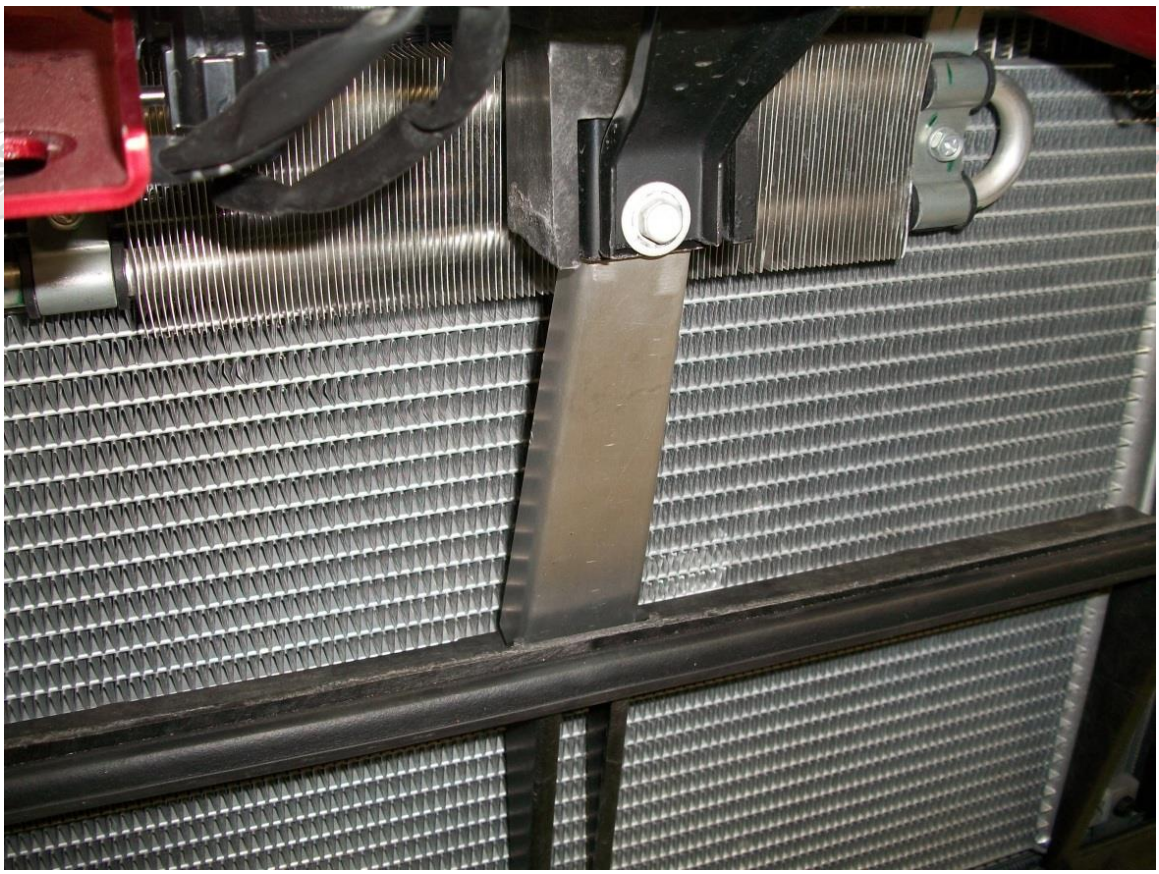

Cut

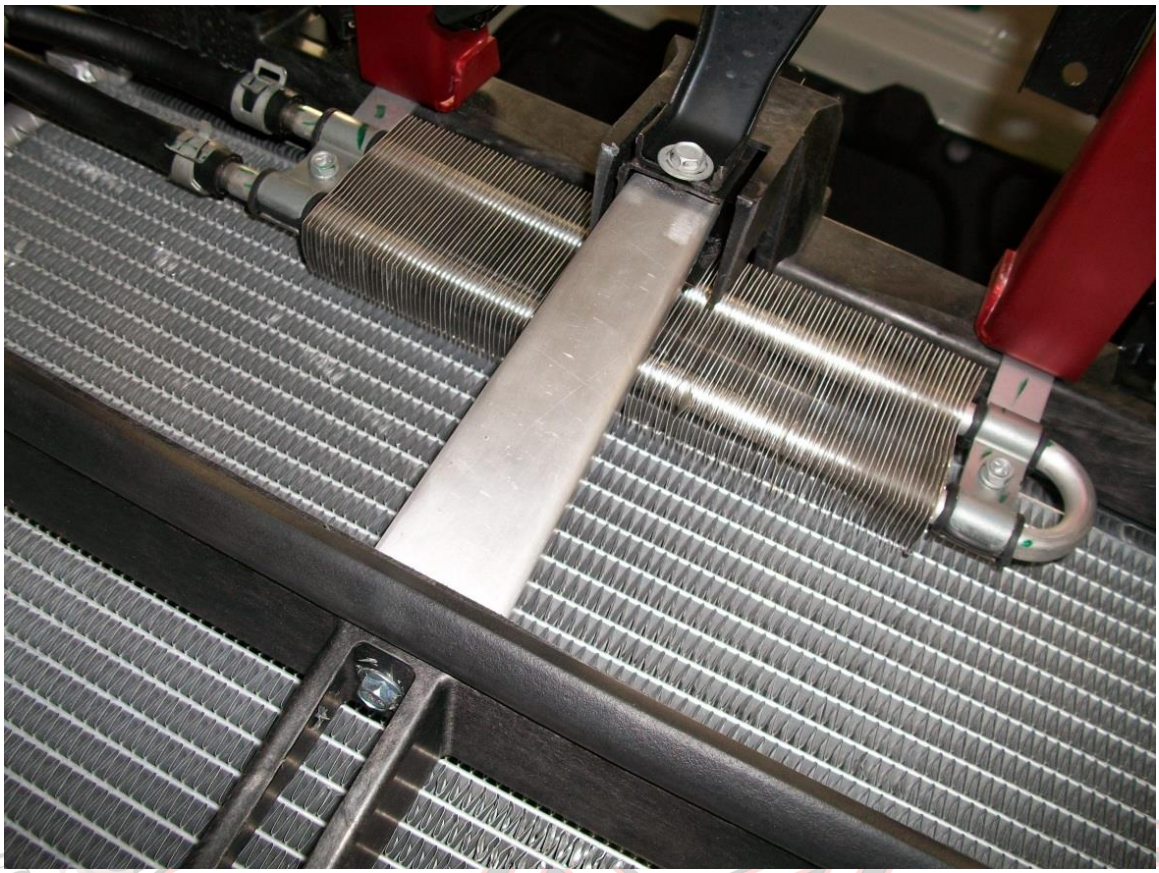

Cut this area out


Cut this area out

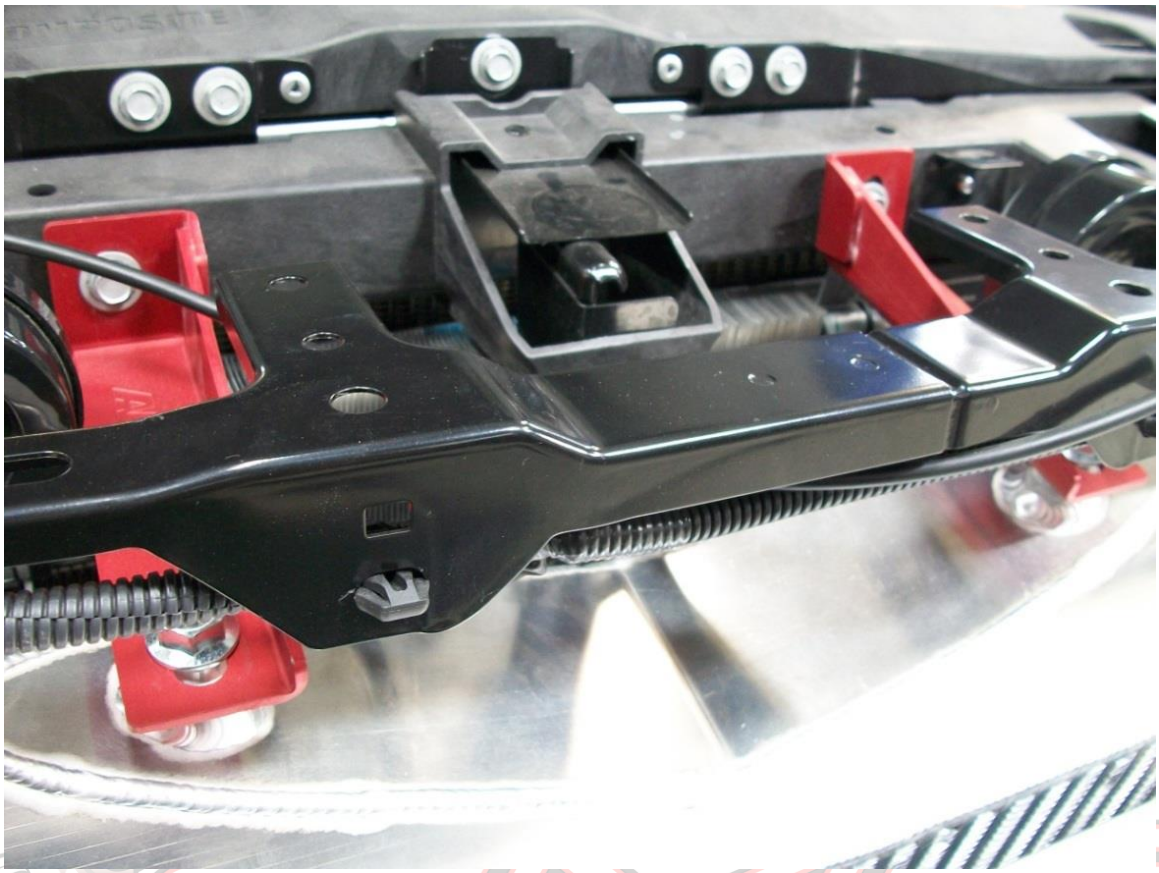
9. Now bolt the intercooler support to the car with a couple bolts and install the small brace as shown. Use a supplied M6 nut to mount it to the back of the upper bolt, then drill a hole in the intercooler support and use a M6 nut and M6x16mm bolt to attach the lower portion of the small brace as shown.

***During final install of the intercooler support you need to make sure you line it up with the scribed marks you made earlier. In most cases if you push up on the support while installing it it will be located properly. If that is not done you will end up with a gap between the bumper and hood. Some test fitting may be required to locate it properly. Both the lower portion of the support and the metal top support have adjustability built into them.

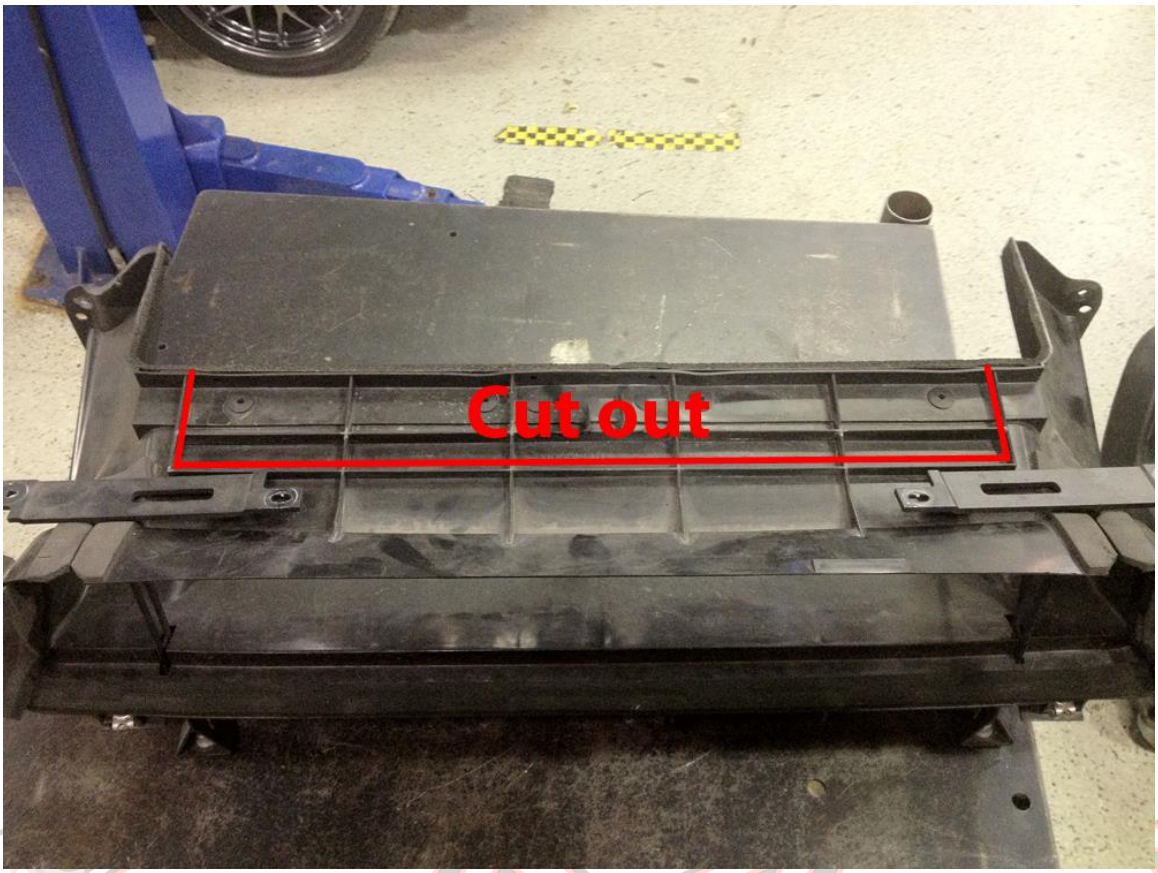


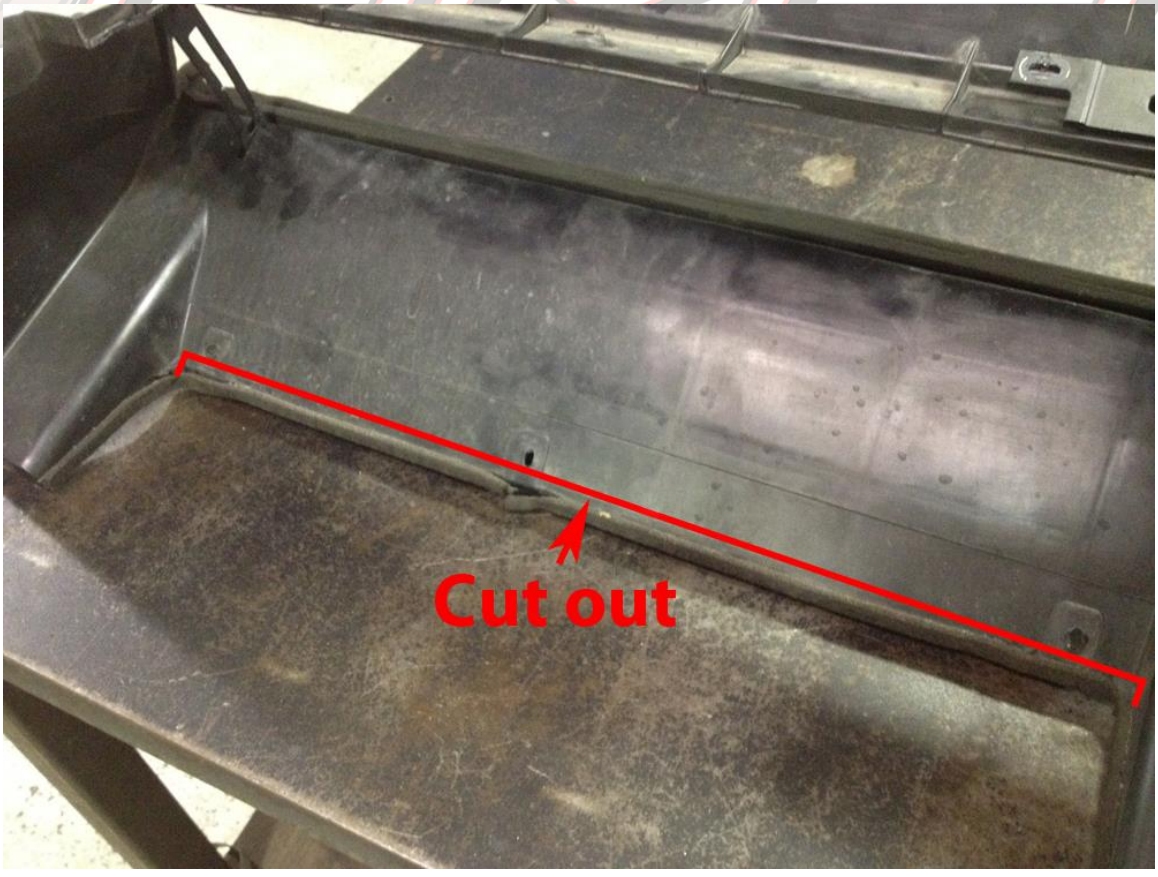


10. After cutting is done test fit FMIC in support and confirm fitment. Trim more if needed. This can be done with the support off of the car. Note below how the mounts are bolted in. Use the M10x16mm bolts and M6x20mm bolts to bolt in these mounts.

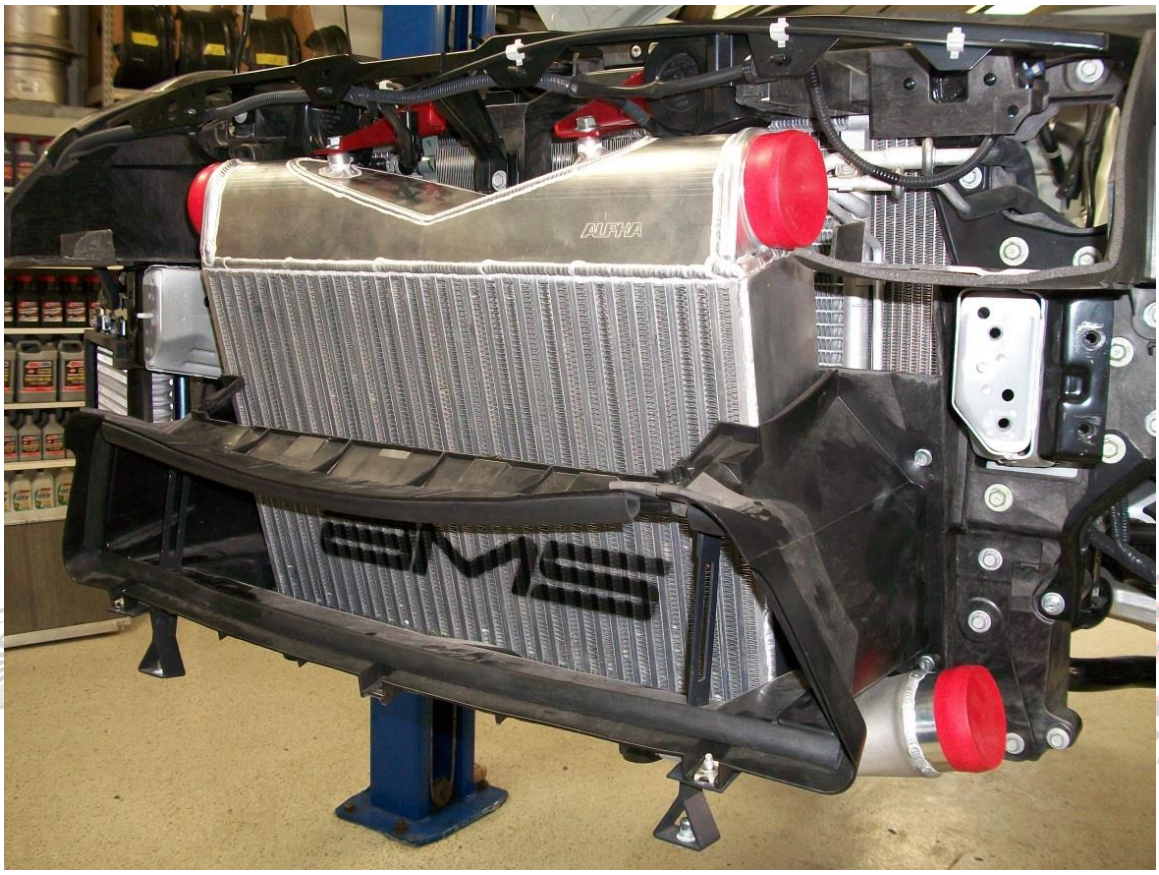


11. Next grab the intercooler duct and cut it in the two places as shown. On some 2012+ vehicles the lower portion of the duct doesn't need to be cut, test fit first.


Cut out

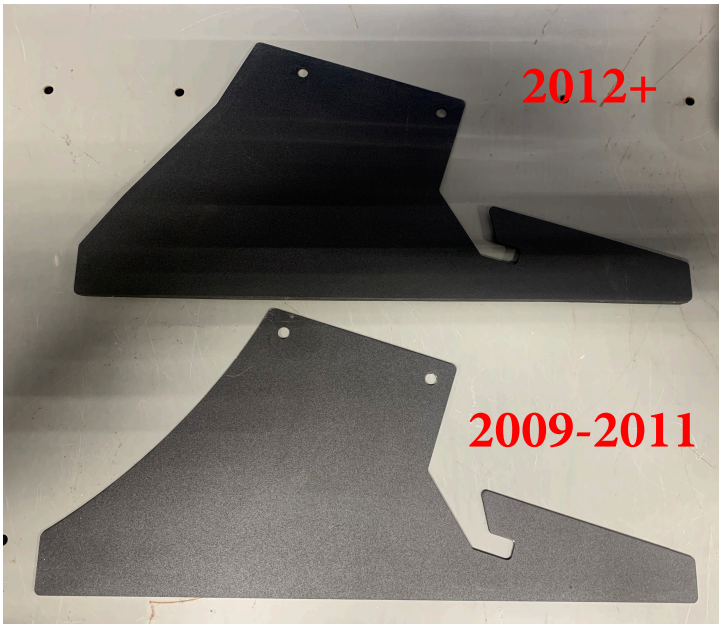

Cut out

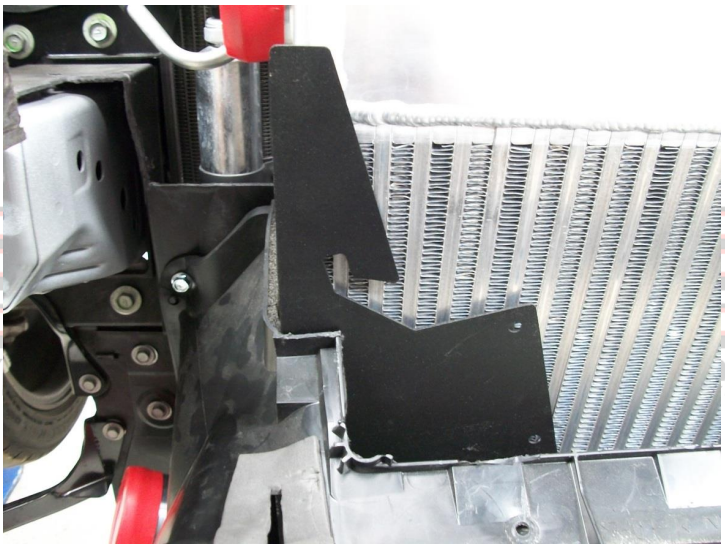
12. Now reinstall the intercooler, and duct. It should look somewhat like below. The duct is now held to the support with the M6 nuts and M6x12mm bolts.



13. Now slide the intercooler side air shields into place with the foam facing the intercooler. The best way to get these in is to put them in front of the intercooler the pull the duct away from the intercooler and slide the shield in place.

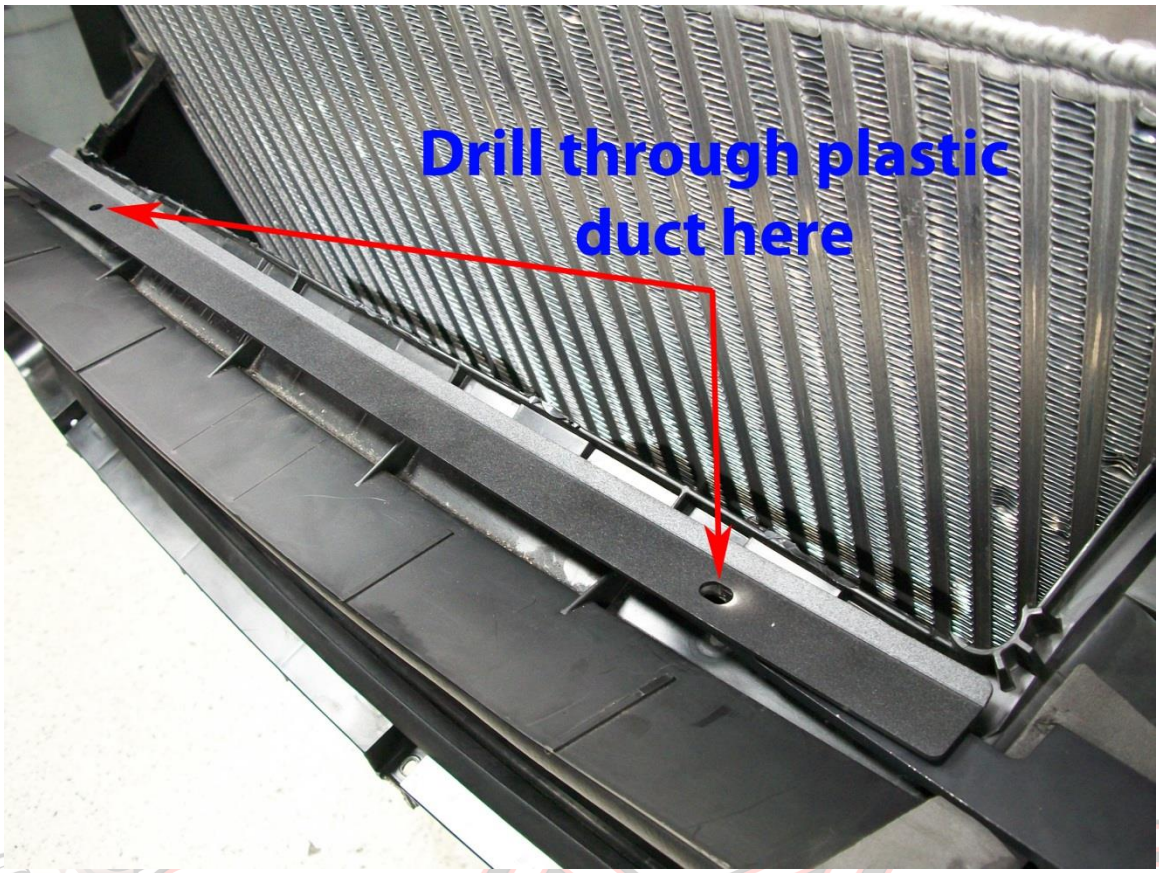
Note: Side air shields for model years 2009-2011 and model years 2012+ are both included in the kit. See below to identify the parts.


2012+
2009-2011

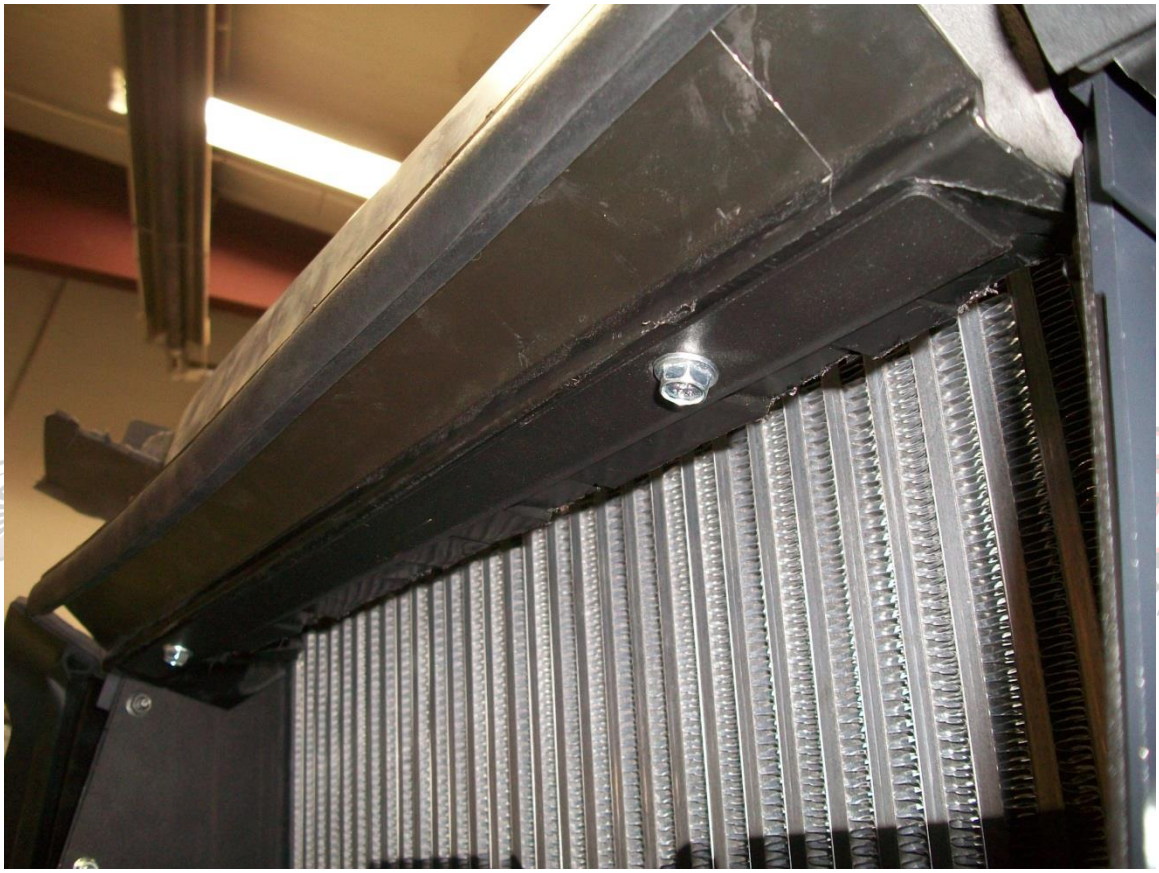


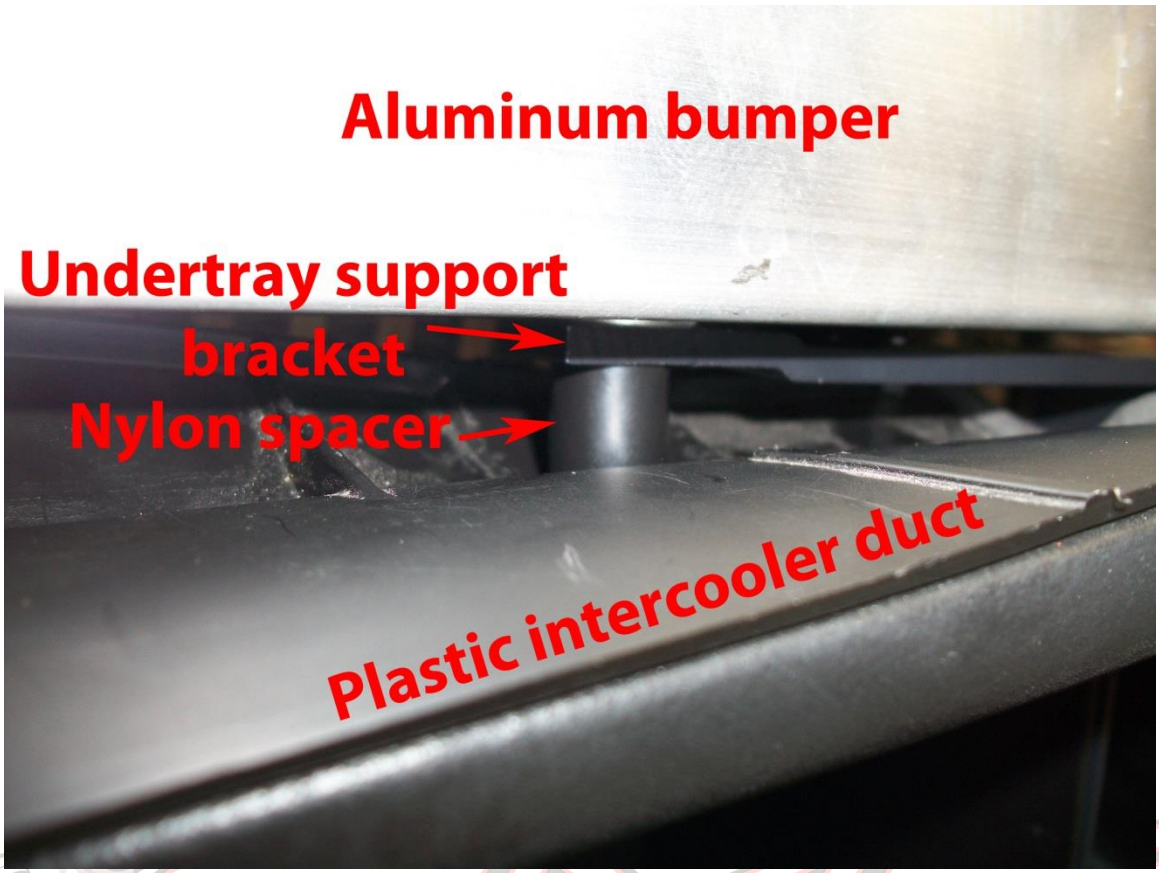
14. At this point you can now loosely re-install the brackets that bolt the undertray support to the aluminum bumper. In addition you can use the supplied M6 nuts, M6x12mm bolts, and M6 washers to bolt the side air shields to the undertray supports. The brackets are side specific so ensure they are in their correct locations.

15. Now on top of the duct you must drill the holes for the support beam to be installed. Place the support beam on top of both brackets to locate correct location for holes and drill both inside holes as shown. Now remove the beam and install the bumper.

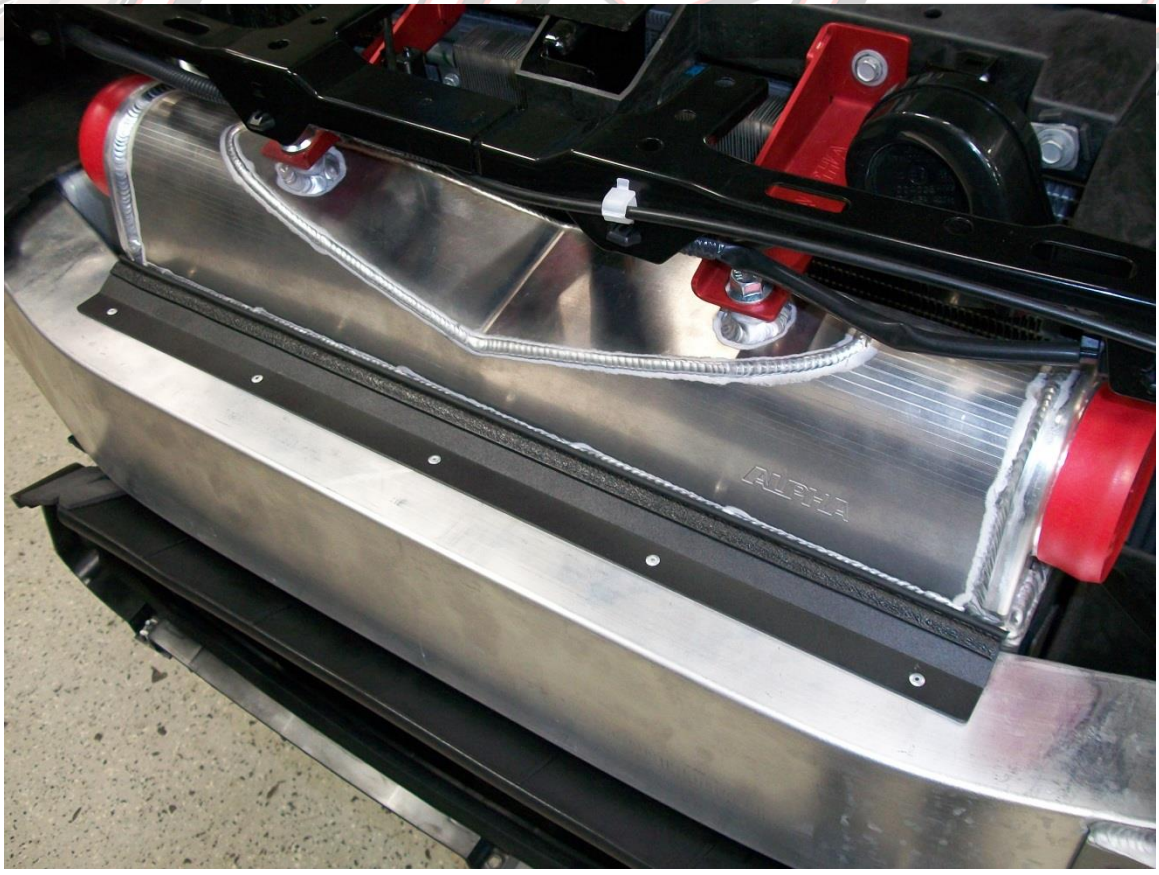

Drill through plastic
duct here

16. You can now bolt the undertray support brackets to the aluminum bumper. The outside bolts are stock bolts the inner ones are the supplied longer M6x40mm ones and utilize the support beam. The order of the inside fasteners is bolt, support beam, plastic air duct, nylon spacer, undertray support bracket, then into the aluminum bumper. See picture. After that tighten all 4 fasteners that hold the side shields to the undertray support brackets.





17. The final air guide to install is the top one. Center the guide on top of the aluminum bumper and then rivet in place using the supplied rivets. Make it as tight as possible against the intercooler.



13. Re-install all previously removed parts. The air temperature sensor now snaps into the upper passenger side intercooler brace.

14. For the intercooler piping the lower pipe is the same as used with the standard AMS FMIC, use the supplied silicone couplers and aluminum tubes to connect to the stock lower intercooler piping. The upper pieces are identified by the short tight bend in the top. These go to the top of the intercooler and to your choice of upper intercooler piping.