

# ALTA

## R56 Front Mount Intercooler

2013-07-18

Thank you for purchasing this ALTA product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high performance vehicles. If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack-stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur! Please read through all instructions before performing any portion of installation. If you have any questions, please contact our tech department prior to starting installation. We can be reached in any of the following methods:

Email [Tech@ALTAperformance.com](mailto:Tech@ALTAperformance.com)  
Instant Chat off the main page of [www.ALTAperformance.com](http://www.ALTAperformance.com)  
Or simply call our tech team at 503-693-1702

### GENERAL MODIFICATION NOTE

Modifications to any vehicle can change the handling and performance. As with any vehicle extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive a vehicle safely may result in serious injury or death. Do not drive a vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state or country. Consult the owner's manual, service manual, instructions accompanying these products, and local laws before purchasing and installing these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

### Special Notes:

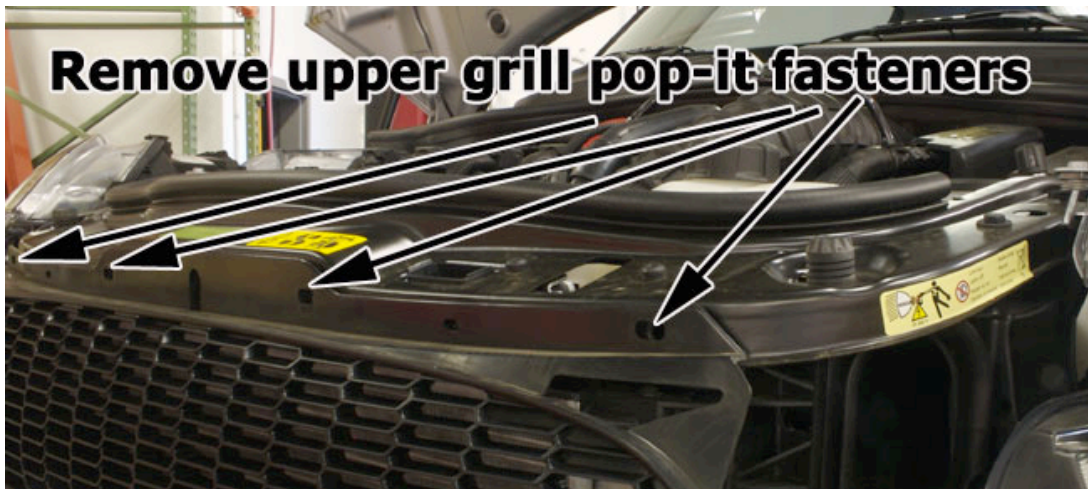
- Use of the factory service manual can be very helpful during the installation. These can be purchased at the dealership or online. <http://www.realoem.com> has diagrams for the entire car, which can also be helpful.
- Intercooler fits tightly against bumper when installed properly. Make sure to take time in trimming small tabs on bumper that may touch intercooler core. This will make intercooler core install much easier.

### Parts included with the ALTA R56 Front Mount Intercooler are:

- (1) ALTA R56 Front Mounted Intercooler
- (26") Bubble on Side Trim
- (2) Zip Ties

### Removal of bumper & intercooler:

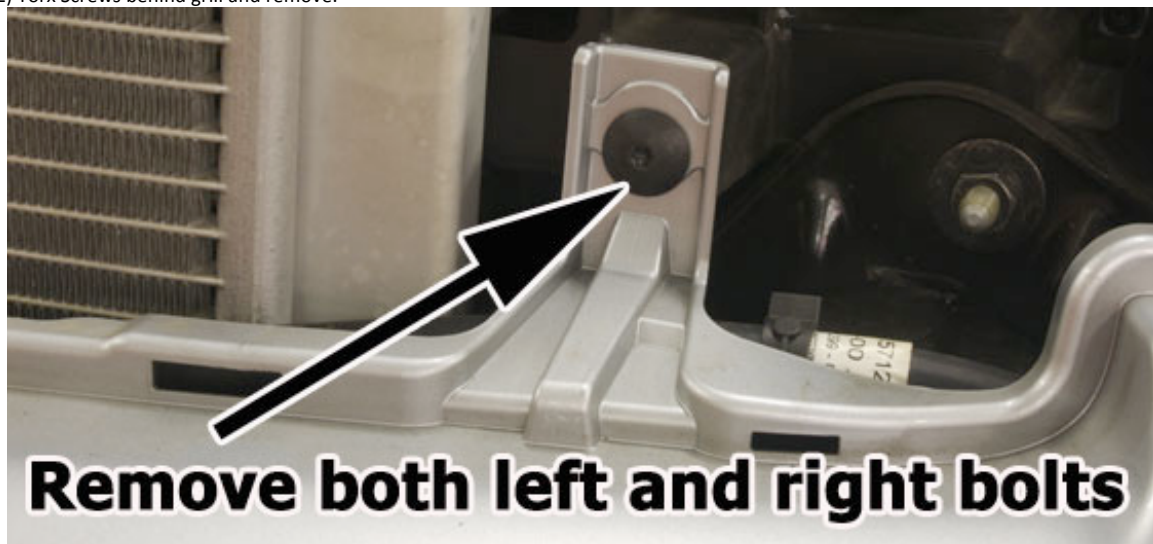
1. Open hood, locate and remove (6) pop-its fasteners from upper grill.



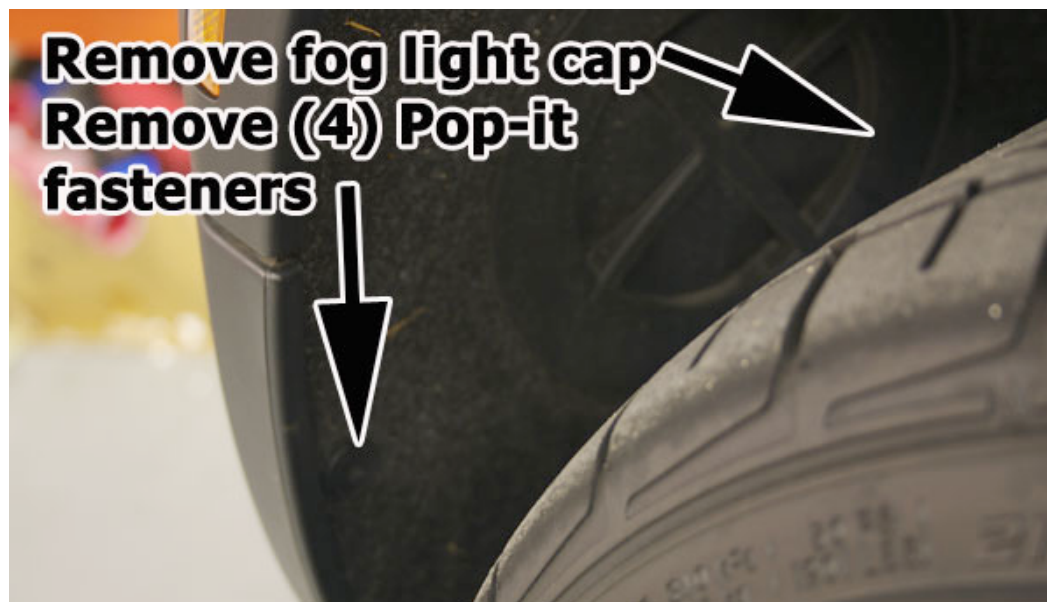
2. Remove lower Chrome trim from upper grill. Trim is released by pulling up on small tabs on back of trim.
3. Locate (4) tabs sticking out from lower part of upper grill and push to side to release upper grill.

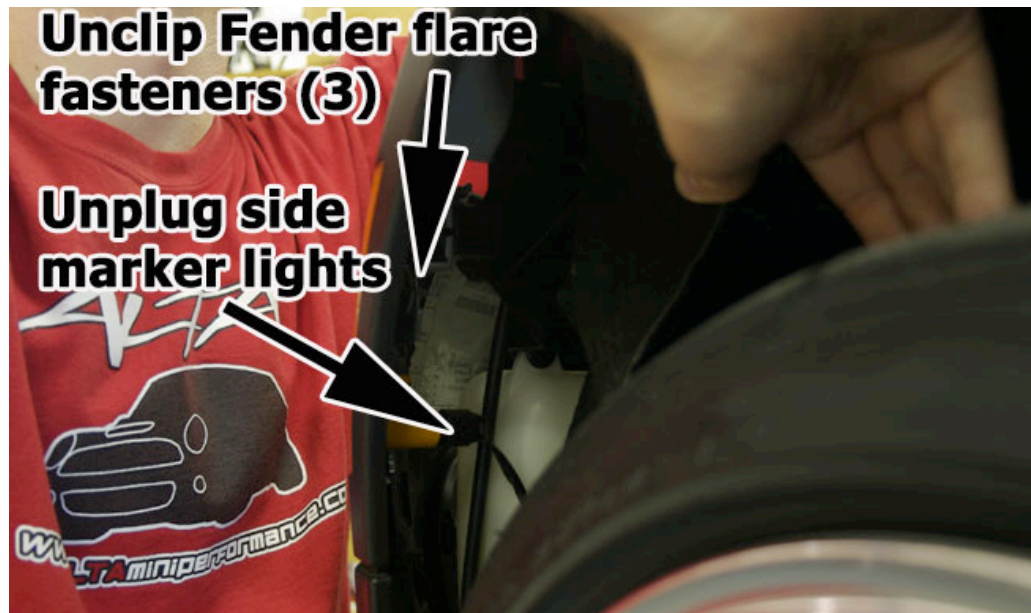


4. Locate (2) Torx Screws behind grill and remove.



5. Remove (4) screw-in pop-it fasteners on lower half of inner fender liner on both side of car.
6. Locate and remove fog light cover on inside of fender well, and unplug fog lights and driving light plugs. On passenger side, locate and unplug air temp sensor.

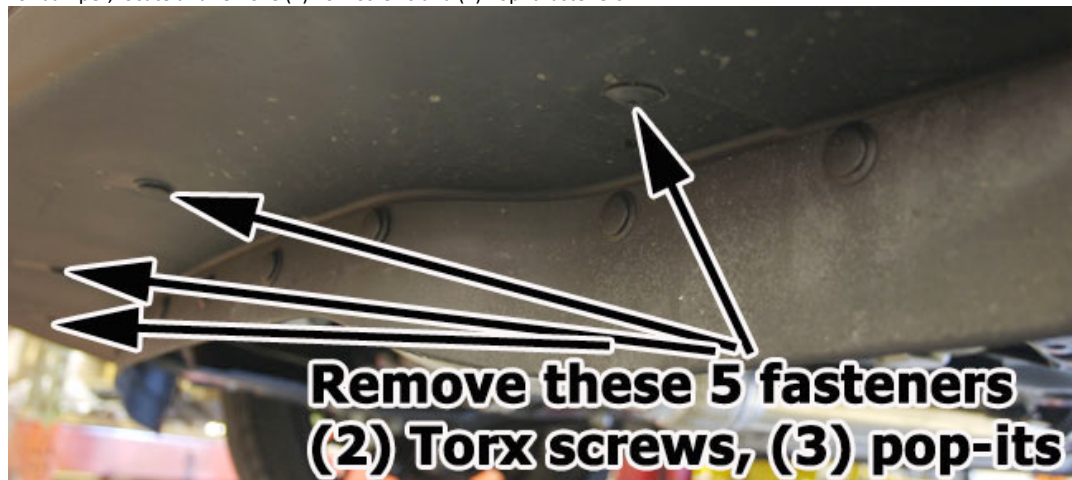




7. Pull back fender liner, locate and remove side marker plug, and pop-it connector holding upper and lower bumper together.
8. Remove first (3) points of connection on fender flair. To release fittings use needle nose pliers to squeeze fitting from behind. (Note: These fittings are fragile, be careful when pulling bottom half of fender flare)
9. With lower part of fender flare pulled back, locate and remove Torx screw behind fender flare holding bumper skin to body.

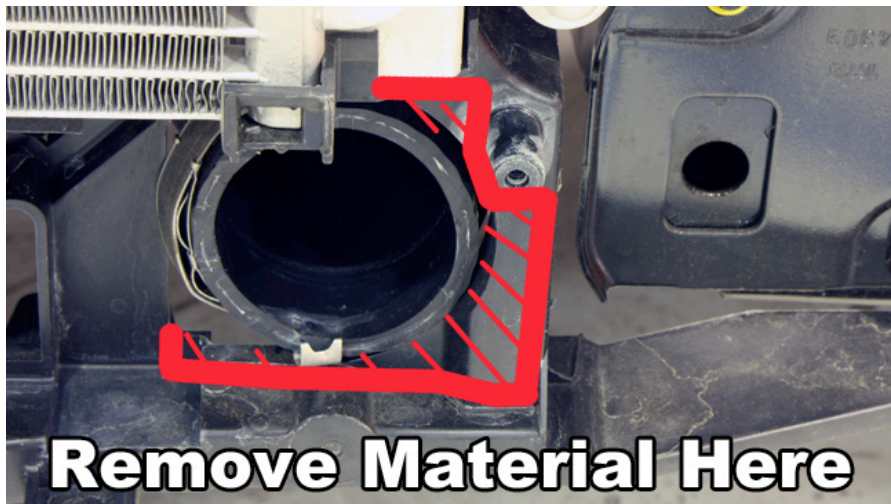
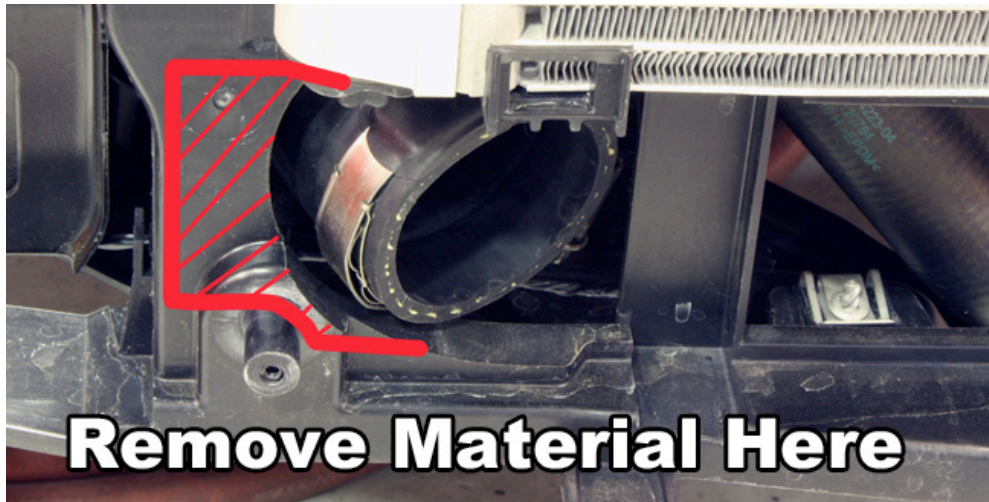


10. Under bottom of bumper, locate and remove (2) Torx screws and (4) Pop-it fasteners.



11. Carefully remove bumper from car, and place on smooth clean surface.
12. Locate (2) torx bits holding OEM intercooler to chassis, and remove.

13. Take note as to direction hose clamps were facing before loosening. Loosen clamps securing boost tubes to intercooler. Note: Using a bent awl will help to free up rubber boost tube around intercooler.
14. Remove intercooler from car by carefully pulling and twisting intercooler from boost tubes.
15. Using picture below, locate and trim edge off lower plastic bracket on AC condenser. In the below pics these are the small rectangle black plastic pieces. Simply remove sharp edge using file, or Dremel Type tool. NOTE: The intercooler end tanks will rest against this edge.
16. Using below pics, remove plastic to the left and right of each boost tube as indicated in red below. NOTE: Using an Air tool, or Dremel tool will make for easy removal of plastic. Its better to error on removing a little more than a little less, as this will help make installation easier.



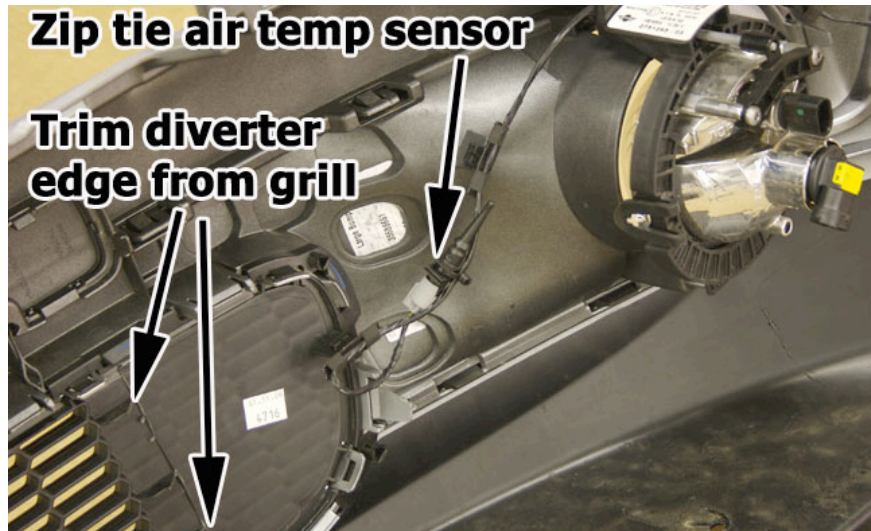
17. Install ALTA intercooler in place of OEM intercooler, and connect boost tubes to intercooler. Before tightening clamps, ensure they are positioned properly to allow access to nut. NOTE: Make sure clamps are placed behind beads on intercooler to ensure they do not pop off under boost.
18. Once intercooler is installed and hose clamps are tightened, install supplied trim to upper edge of bumper beam. Face the "bubble" part of trim toward intercooler. The trim is used to add insulation between intercooler core and beam. (Note: Remove "bubble" portion from trim where it passes over intercooler core on outside edges.)



19. Start car and make sure no Check engine lights appear, and engine runs smoothly. If engine runs rough or CEL is on, check for poor seal/connection of boost

tube to intercooler.

20. On back of bumper locate Air temp sensor and unclip from bumper and zip tie to wire harness.
21. On backside of bumper, locate small diverter and trim from bumper using X-acto knife.



22. Determine if OEM grill is to be left in bumper. If grill is to be left in bumper, temporarily install bumper to car and locate tabs on backside of bumper and trim down slightly to add clearance.
23. If grill is to be removed, unsnap from bumper opening, and install bumper cover onto car. Locate tabs that interfere with intercooler and trim off.
24. Once bumper cover is trimmed, reinstall back onto chassis. Start with step number 10 and work backwards.
25. Once installation is complete, again, start car and make sure no check engine lights appear.

**Questions, Comments and Suggestions Contact: [Tech@PERRINperformance.com](mailto:Tech@PERRINperformance.com)**

**Visit Our Website for Instant Chat Options at [www.PERRINperformance.com](http://www.PERRINperformance.com)**

**Call Our Tech Team at 503-693-1702**