

PORSCHE MACAN INTERCOOLER KIT

The Alpha Macan Intercooler System features the highest quality Bar and Plate Garrett Intercooler cores which are a full 43% thicker than OEM! Alpha's massive cores give you the most power producing intercooler upgrade on the market.

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Introduction

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

Disassembly

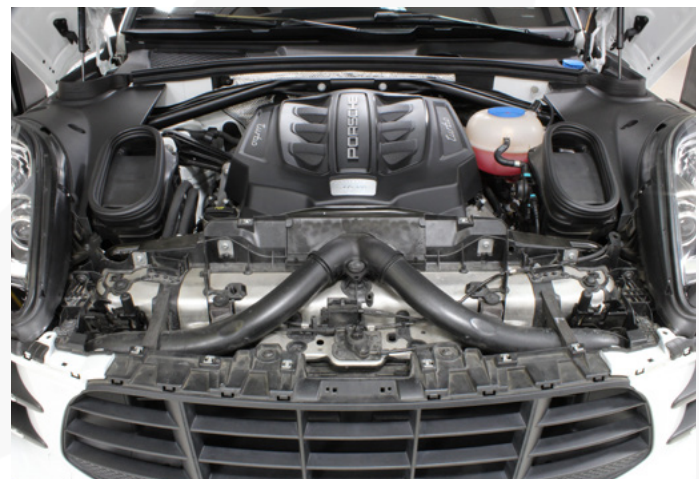
01. Raise the vehicle in a safe manner.



02. Remove the secondary hood latch release handle. Use a small flat head screw driver and release the lock by sliding it out the rear of the handle as shown. Remove the handle after released.



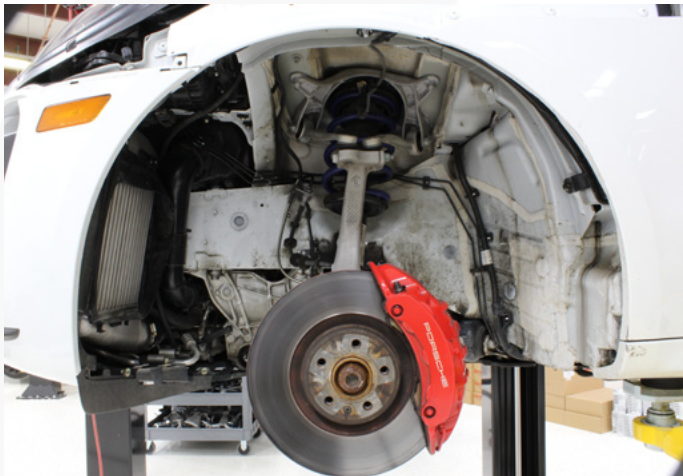
03. Remove the four retaining clips from the core support cover. Lift upwards at the front and remove the cover panel front the vehicle.



04. Remove the two clips from each trim panel under the head lights. Carefully unclip the panel by pulling it forwards from the vehicle to remove.



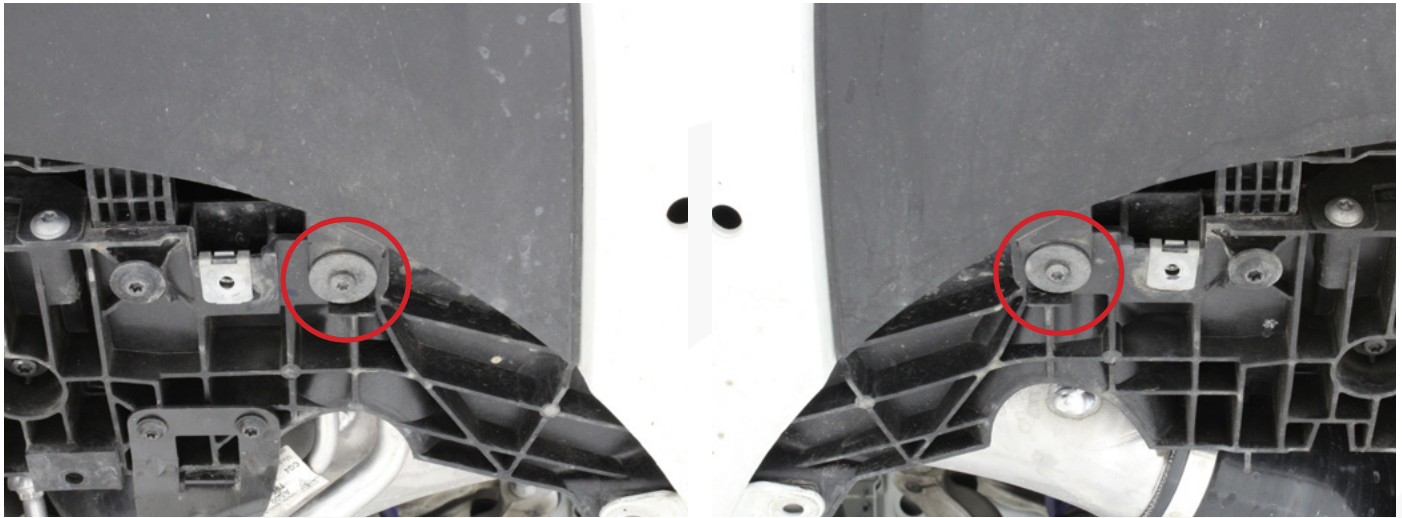
05. Remove both wheel well liners. There is also one screw per side that is on the outside of the body that also needs to be removed.



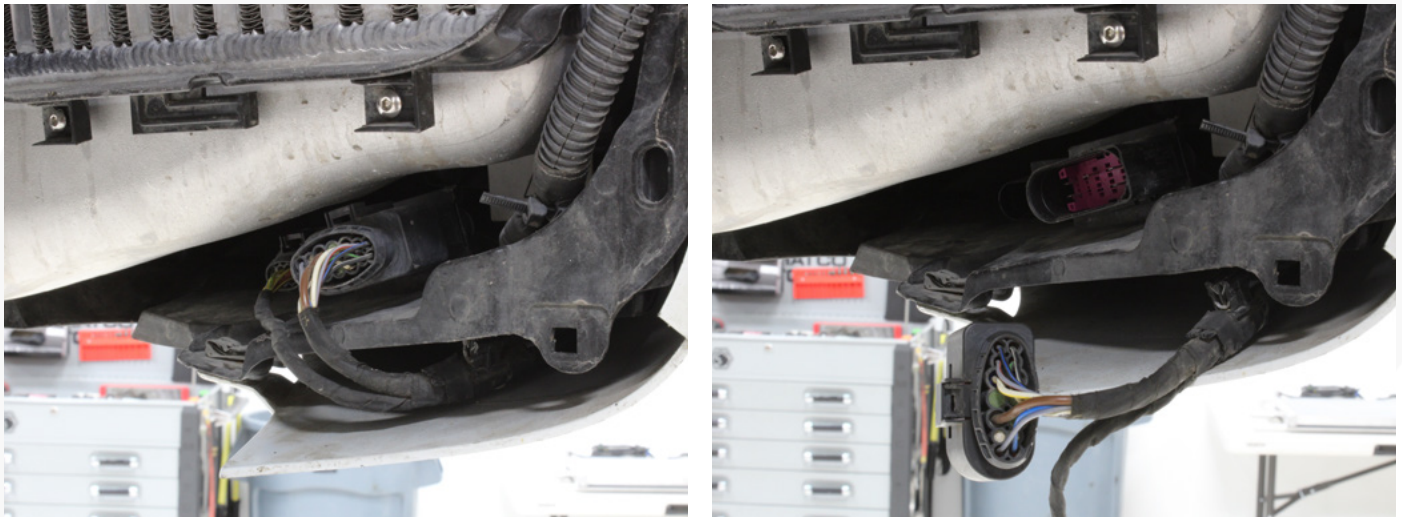
06. Raise the vehicle and remove the center under tray. Remove the corner panels as well. There is a water drain hose connected to the top of the panels that needs to be disconnected.



07. Remove the two Torx screws from the bottom front corner area of the bumper.



08. Disconnect the two connectors just under the intercooler inside the right front wheel well area.



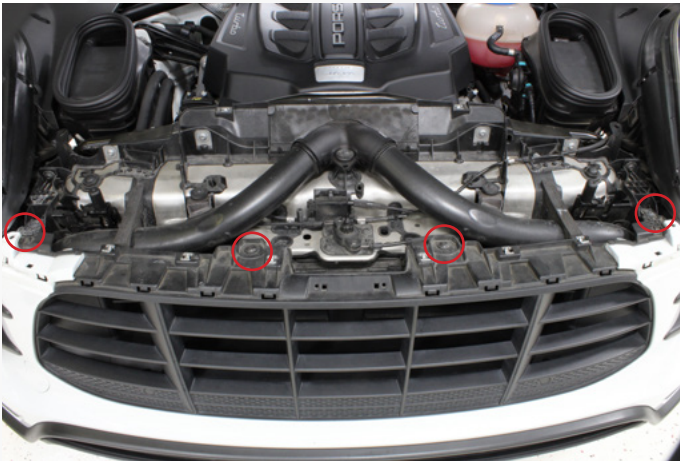
09. Remove the two Torx screws just inside the wheel well area securing the bumper to the frame on each side.



10. Remove the two Torx screws from the top edge of the bumper just under the head light on each side.



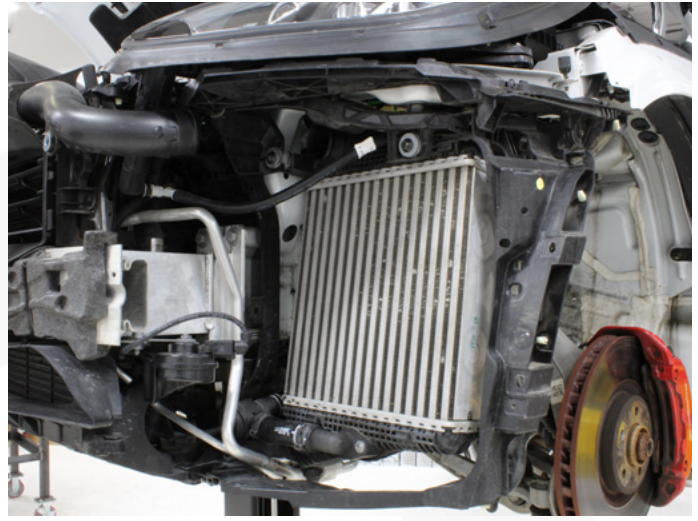
11. Remove the four Torx screws from the top of the bumper. Carefully remove the front bumper.



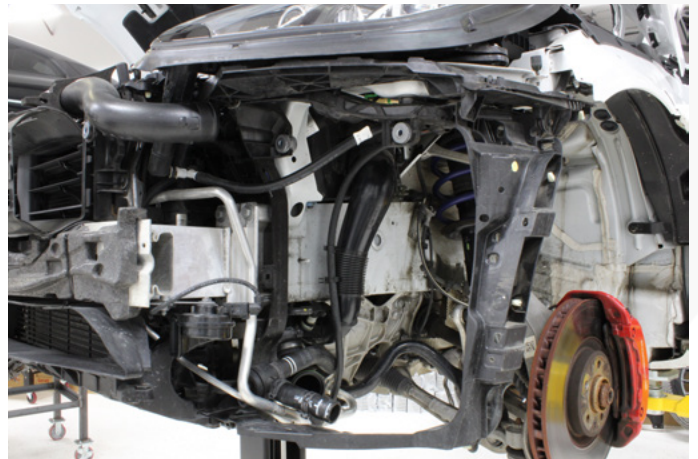
12. On the front louvered air duct, the side are on hinges. Release the tabs and rotate the sides towards the front. Remove the five bolts holding the plastic charge air y-pipe in place. The y-pipe will not be removed but will need to be moved around to remove and install the silicone couplers.



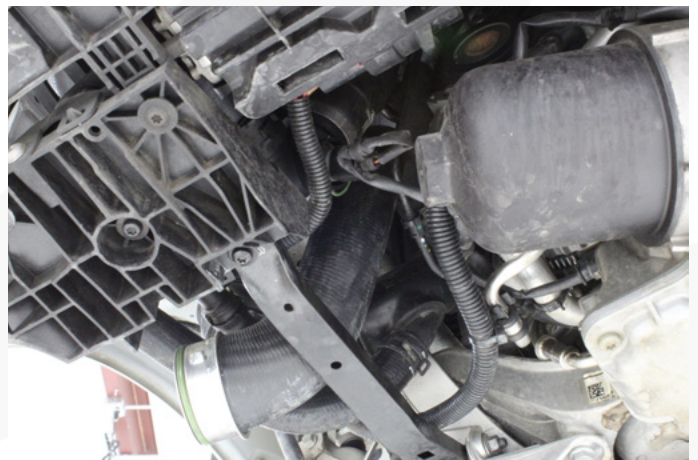
13. Remove the front intercooler duct and intercooler outlet coupler on each side. Neither will be reused.



14. Disconnect the bypass valve at the hose connected to the intercooler. Release the quick connect fitting on the factory inlet coupler at the bottom of the intercooler. Remove the three bolts holding the intercooler to the frame and remove the intercooler assembly. Repeat the process for the other side.



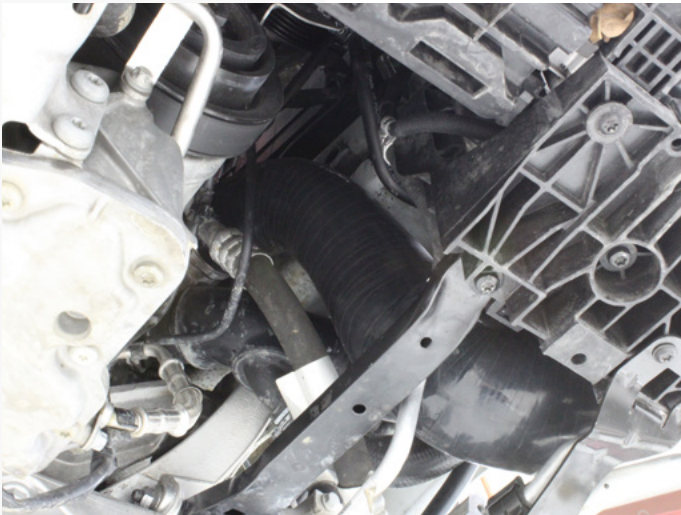
15. Remove the factory turbo outlet / intercooler inlet couplers. Releasing the quick connect clip on the turbo compressor outlet and leave the clip in place. On the left side, disconnect the small hose connected to the intake tube. This is part of the PCV system.



16. Locate the billet aluminum compressor outlet adapters. Carefully remove the green compressor outlet seals from the factory rubber couplers. Reinstall the seals onto the billet adapters. Apply silicone spray or a light grease to the seals on the adapters. Make sure the compressor outlets are clean. Install the adapters on both sides and make sure the outlet retaining clip securely hold the adapter in place.



17. Locate and install the supplied compressor outlet / intercooler inlet silicone couplers. Use the supplied #32 hose clamps on the compressor outlet adapters and the #48 hose clamps on the intercooler inlet side. A #8 hose clamp was supplied for the PCV hose connection on the left side. There is very little room on the left side so adjustments will need to be made when connecting the intercooler when installed.



18. Remove the factory rear intercooler ducts. To install them on them, you will need to trim off material so they can sit flat on the intercooler. Trim as much material as needed so the ducts sit as close to the core as possible. Once trimmed, drill holes in the four mounting tabs and use the supplied M5 bolts to secure the ducts.



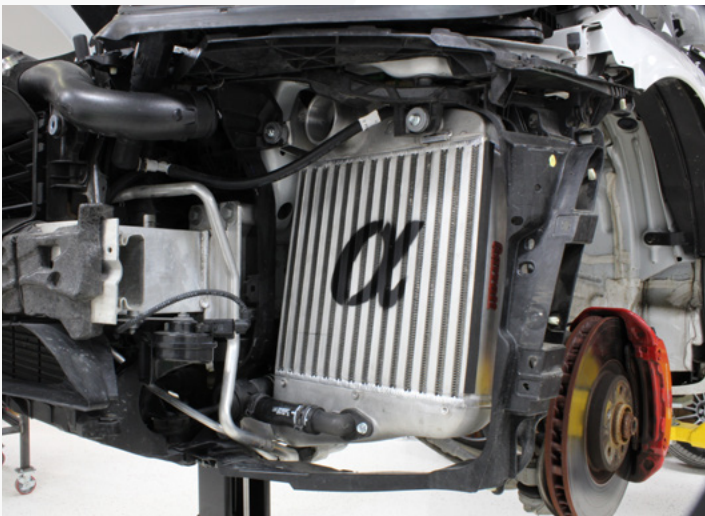
19. Remove the bypass fittings from the front of the factory intercoolers. Use the supplied M6x12 bolts and install the fittings on to the Alpha intercoolers. Do not reuse the factory screw in the Alpha intercoolers.



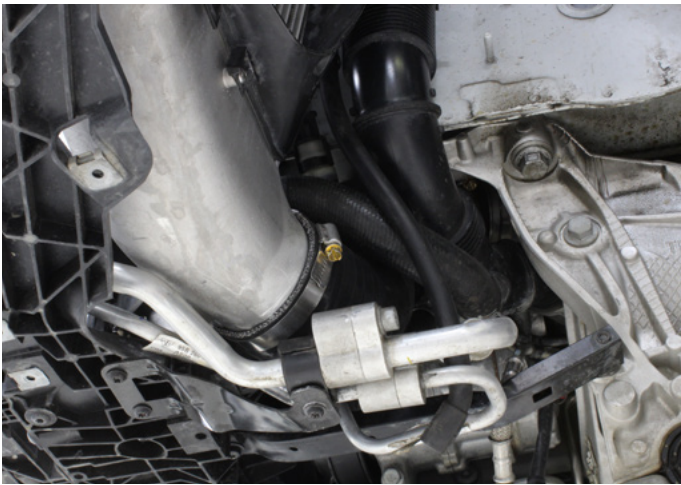
20. Test fit the carbon ducts onto the intercoolers. Two different size foam strips has been included in the kit. Apply foam stripping to the sides of the core and the front top section of the intercooler where the weld seam is but do not place foam directly under the top carbon duct mounting tab. Do not apply foam to the lower section of the duct where it bolts into place so to allow debris and water that enters the duct to escape. The inside of the intercooler will require the thicker foam and the outside will use the thinner.



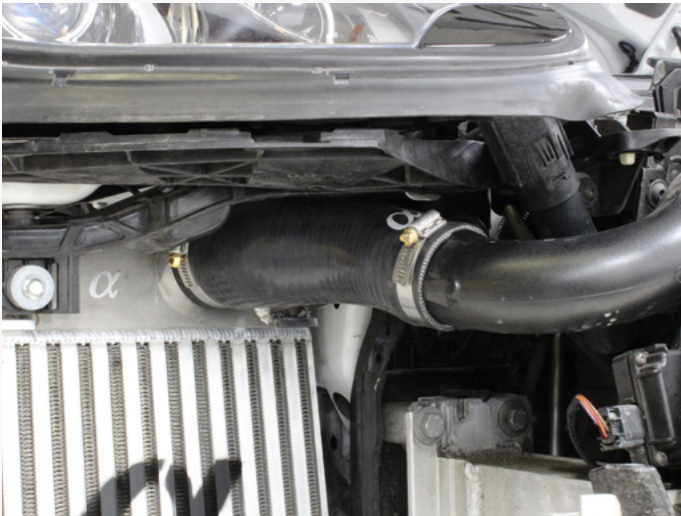
21. Install the intercoolers using the supplied M6 x 35mm bolts to mount the intercoolers. Do not reuse the factory bolts as they are too short. Connect the bypass valve hose when installing.



22. Connect the inlet silicone on the bottom of the intercoolers using the supplied #48 hose clamps. Adjust as necessary.



23. Locate and install the supplied intercooler outlet silicone coupler. They are labeled left and right. Use the #36 and #44 hose clamps provided. Adjust as necessary. Reinstall the factory plastic charge air y-pipe mounting bolts.



24. Last, install the carbon ducts. Use the provided M5 hardware.



25. Reinstall the body components in the reverse order of removal. When reinstalling the wheel well liners, some trimming with certain models will be required. The wheel well liners will rest up against the intercooler and rear duct and is normal with the increased size of the intercoolers. The ducting attached on the wheel well liner may also be trimmed or modified as well for better fitment.
26. Enjoy!