

ALPHA



Performance Packages



**PORSCHE 991.2 CARRERA INTERCOOLER
INSTALLATION INSTRUCTIONS**

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.

Intercooler Kit Installation

1. Raise the rear wing before turning the vehicle off and open the rear hatch. Disconnect the battery.

Caution! Make sure to disconnect the battery after raising the rear wing to prevent it from retracting while working on the vehicle!

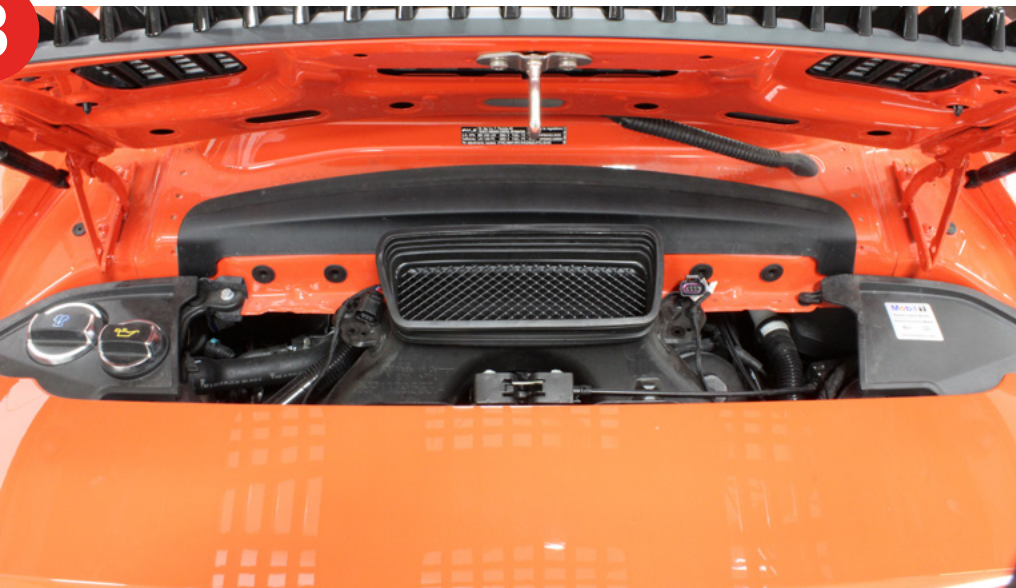
2. Remove the plastic support ring from the inside of the center of the accordion duct. Remove the fan cover panel by carefully wiggling while pulling upwards. The panel is held in place by eight ball and grommets, four on each fan. If the fans start to come with the cover, use a soft tool to push the fan off the cover. Failure to do so could result in breaking one of the mounting tabs off.

2



3. Disconnect and remove both the fans. Take care when pulling the fans off the mounting ball and grommets so not to break a tab off.

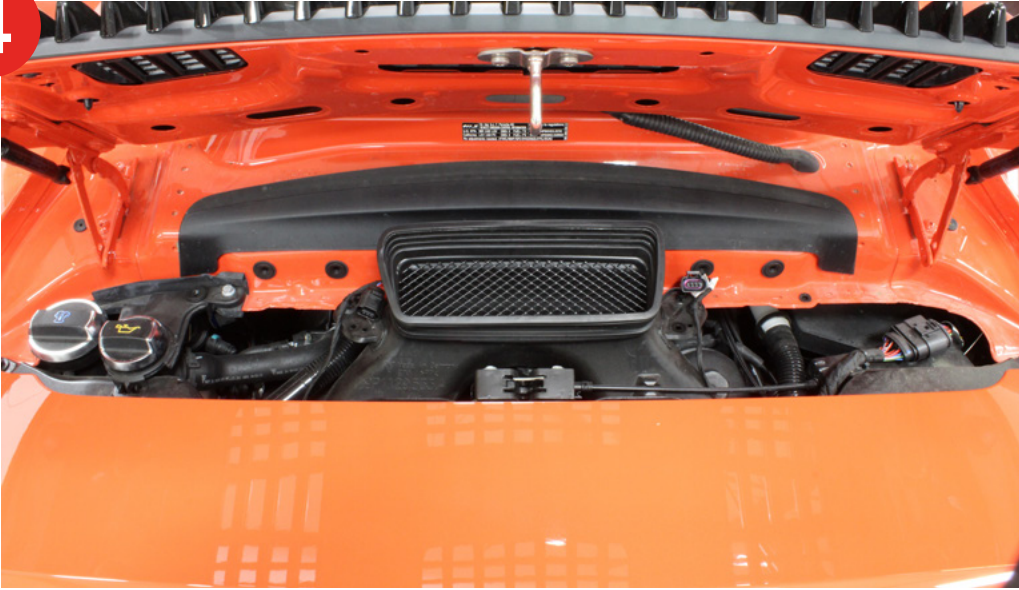
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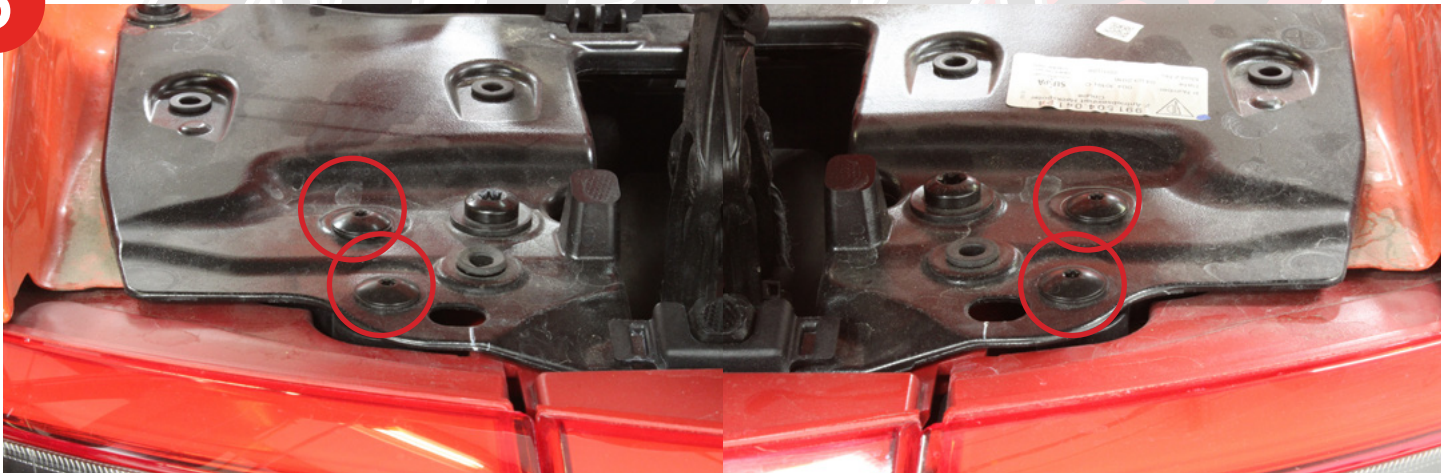
4. Remove both side cover panels. You will need to remove both the coolant reservoir cap and the oil fill cap to get the left side panel off. Reinstall the caps after the panel removal.

4



5. Remove both rear tail lights. Remove the two T25 Torx screws on each side. Slide the taillights out from the car and disconnect the tail light connector.

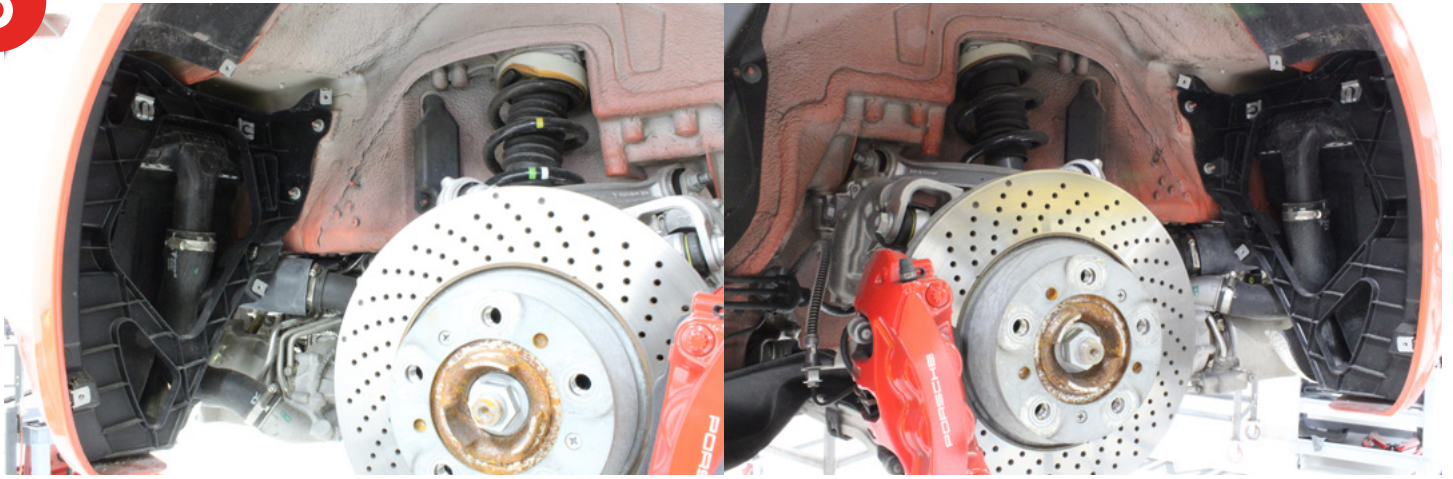
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6. Remove the rear wheels and rear wheel well liners. You only have to remove the rear section of the liner, not the top. Also remove the 10mm plastic nut on each side just above the removed liner on the top section.

6



7. Remove the seven T30 Torx bumper screws on the lower section of the rear bumper.

Note: Take note of the different type of body screws used. Some will have a collar and are used in specific areas such as the bumper screws removed in step # 7. If these screws are used in other locations, damage could occur to the panel being fastened.

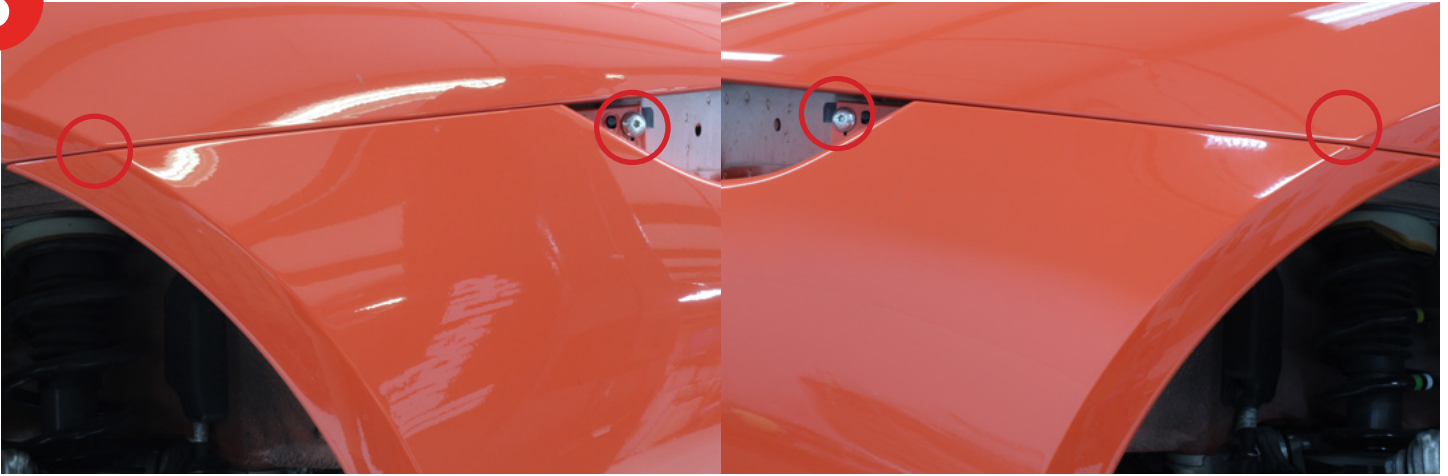
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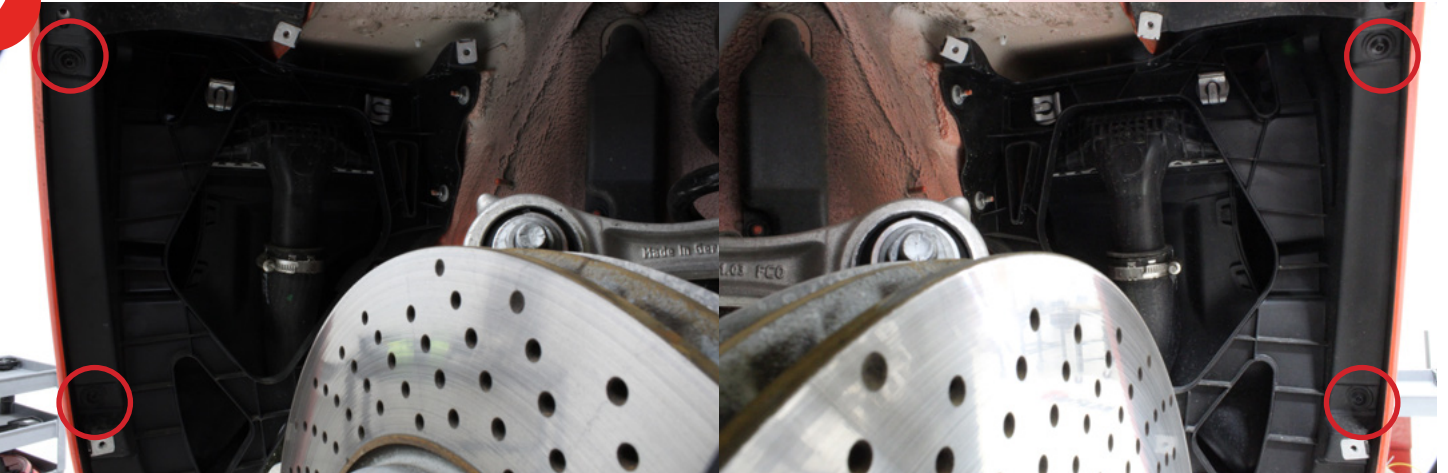
8. Remove the two T30 Torx screws at the corners of the bumper. One is a silver finish that is located behind the head light area and the other is accessible from the under the wheel well area.

8



9. Remove the two T30 Torx screws at the corners of the bumper. One is a silver finish that is located behind the head light area and the other is accessible from the under the wheel well area.

9



6

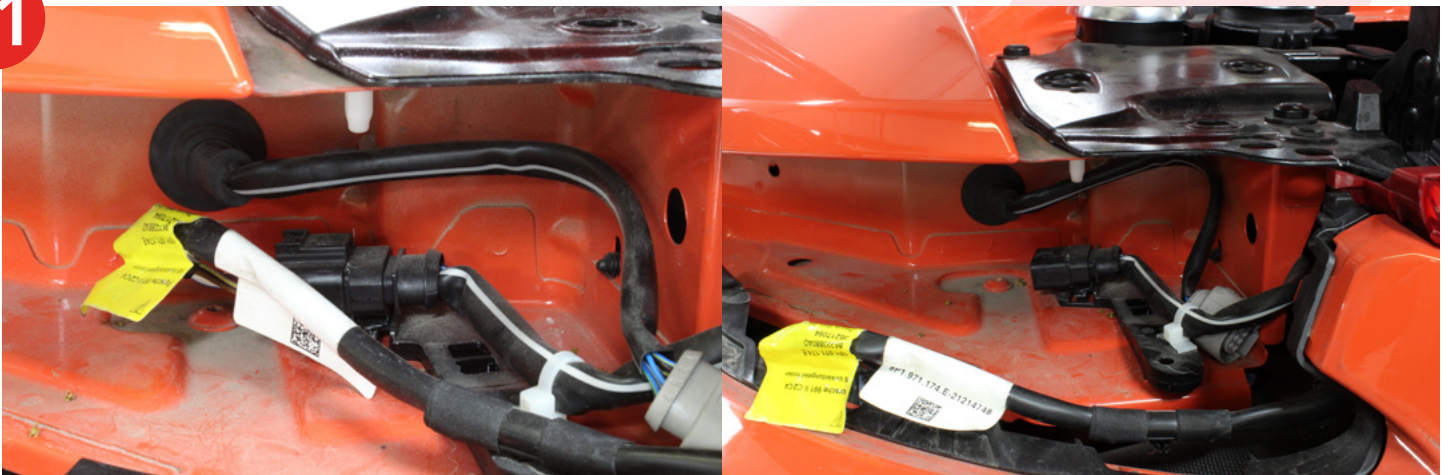
10. Unclip the two connectors behind the right rear taillight area and disconnect them. The harness will come with the bumper when removed.

10



11. Disconnect the one large connector behind the left rear taillight area. This harness will also come with the bumper when removed.

11



12. Remove the four T30 Torx screws from the top of the rear bumper.

12



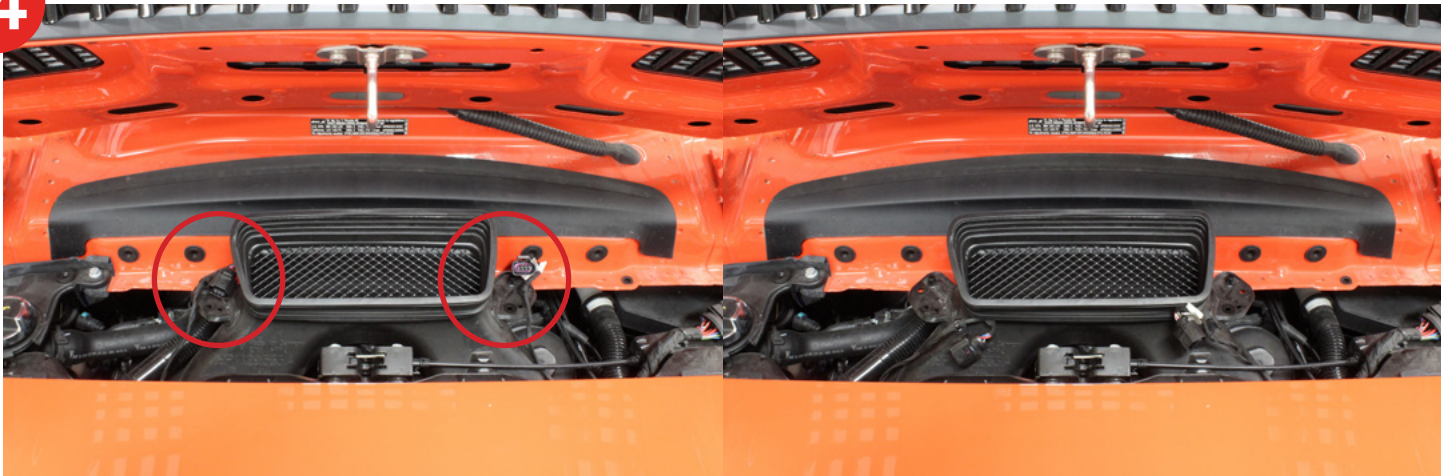
13. Remove the four T30 Torx screws from the top of the rear bumper.

13



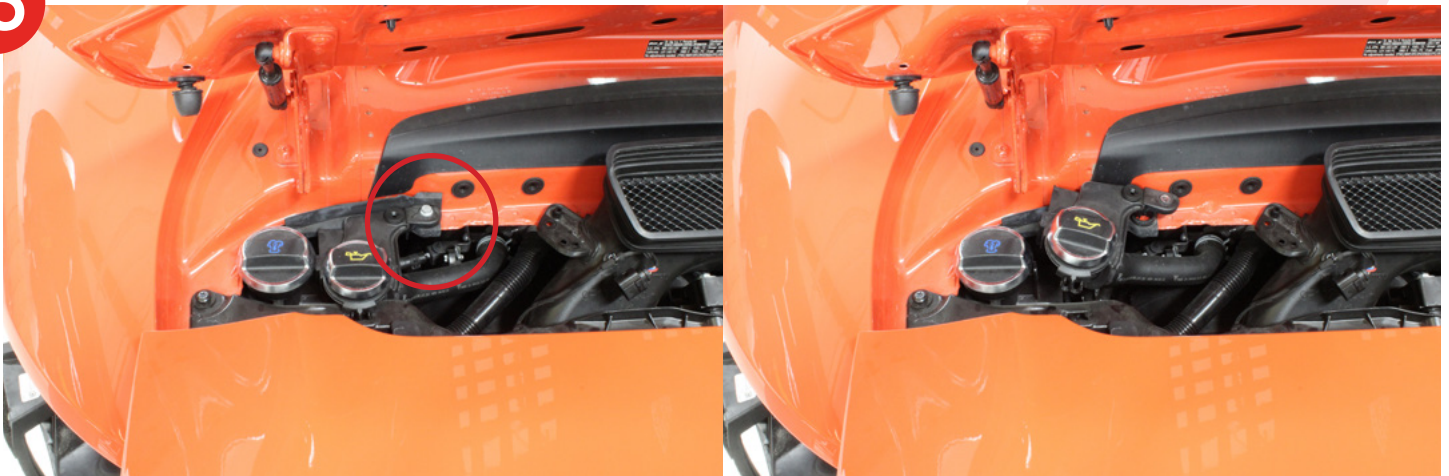
14. Remove the harness clips that hold the fan harness in place. These harnesses will be removed with the wing assembly.

14



15. Remove the 10mm bolt holding the oil fill cap assembly in place. Pull the plate off the wing assembly and set it off to the side leaving the cap on.

15



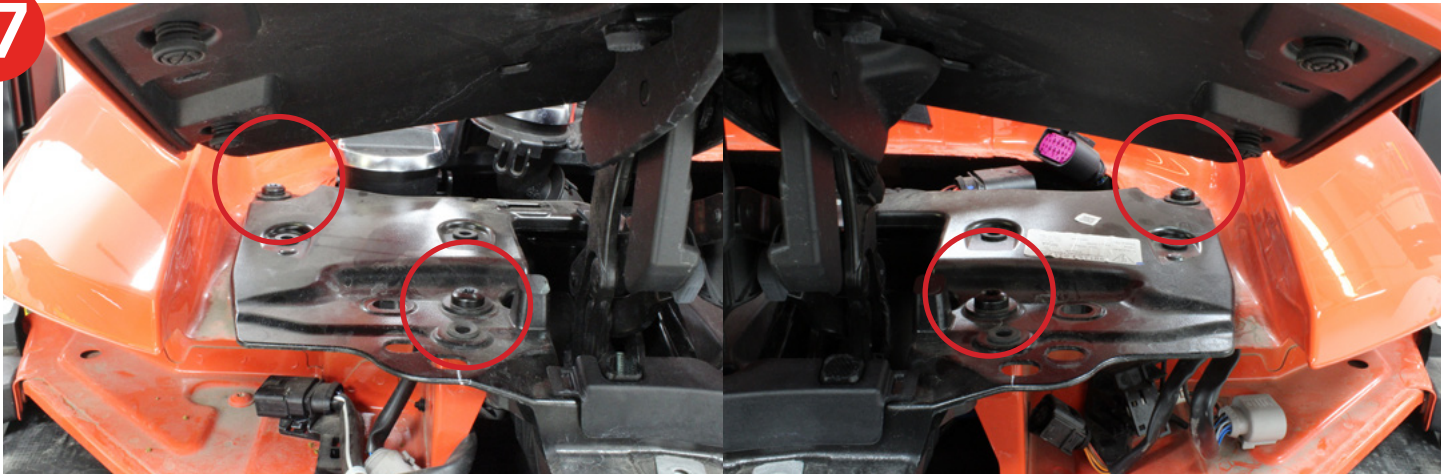
16. Disconnect the main wing harness connector on the right side.

16



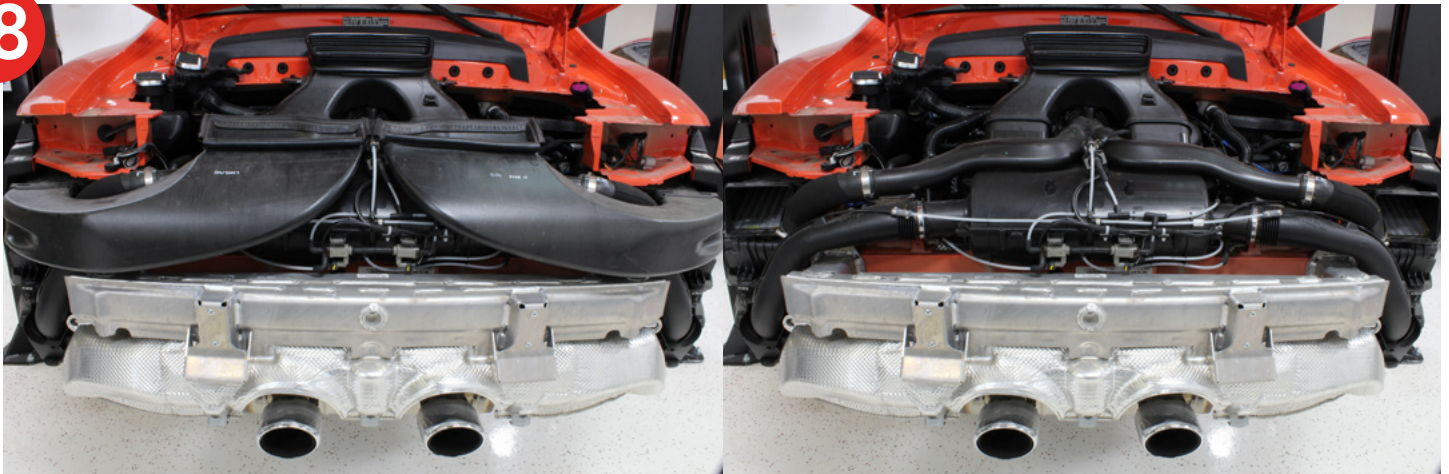
17. Remove the T45 Torx bolts, two on each side of the wing assembly. Carefully remove the wing assembly.

17

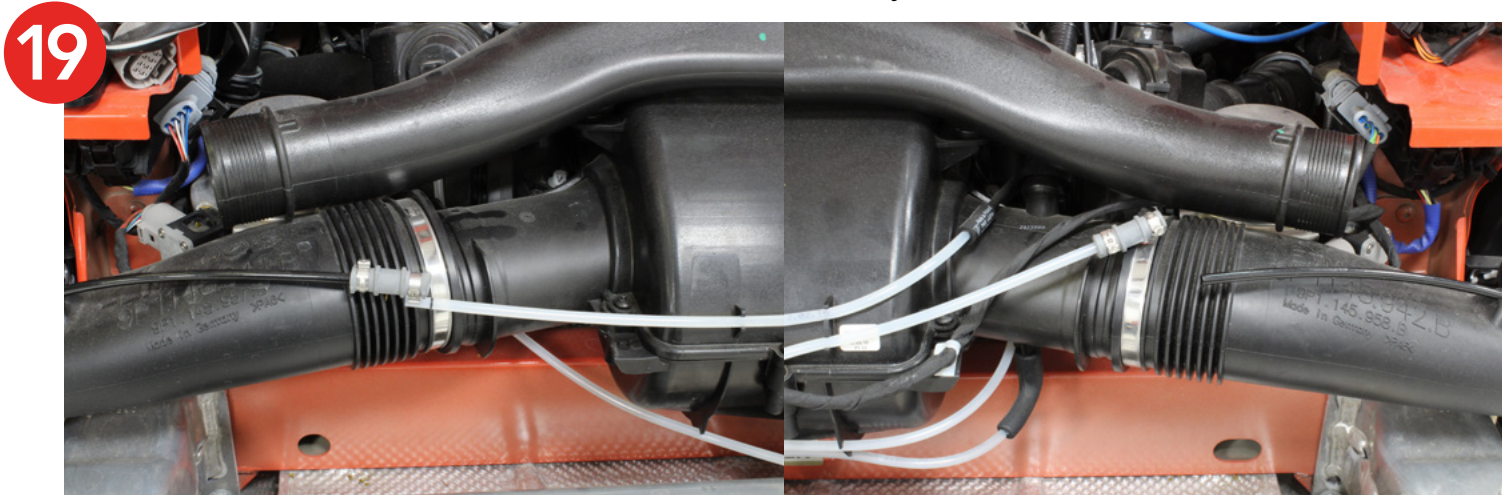


18. With the wing assembly removed, remove the two intercooler inlet ducts.

18



19. Remove the intercooler outlet couplers on both sides. Disconnect the intake coupler from the air box on each side and also disconnect the small nylon tube shown.



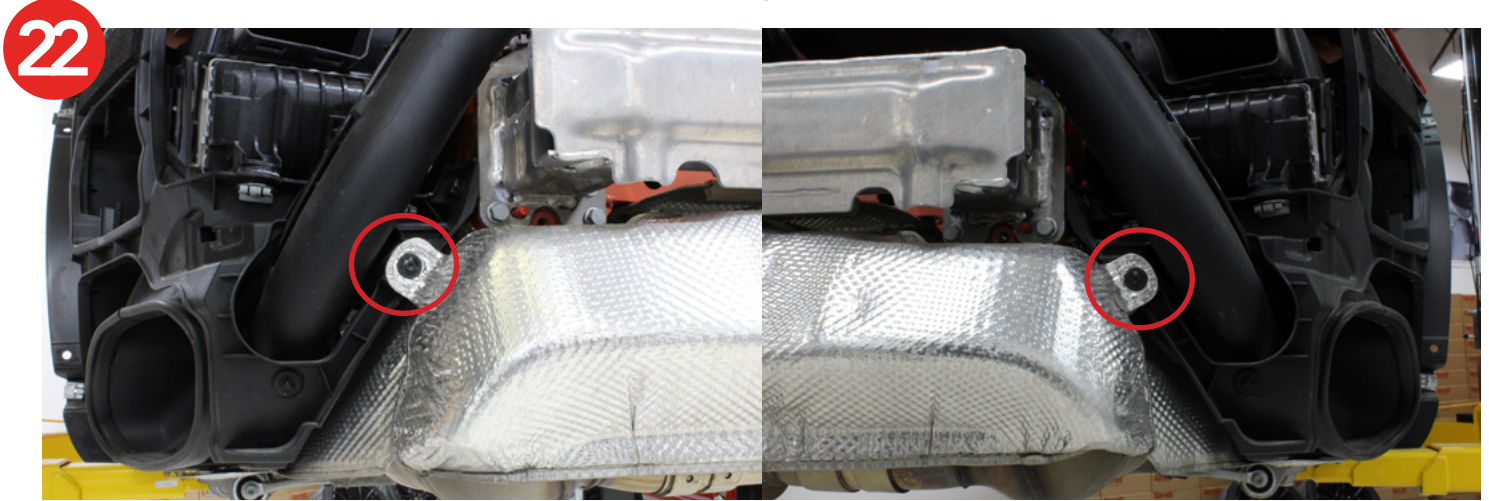
20. Remove the two compressor outlet couplers. Also disconnect the intake tube going to the compressor inlet.



21. Remove the two T25 Torx screws from the bottom of the intercooler frame holding the heat shield to it.



22. Remove the one screw on each side attaching the rear heat shield to the intercooler frame.



23. Remove the two screws holding the bumper retention supports in place on both sides.



24. Remove the five 10mm nuts and one 10mm bolt shown in the pictures below on each side. Remove the entire intercooler and frame assembly.



25. The next several steps will be the remove the intercooler from the frame and install the new Alpha intercooler. The pictures will depict the right side. Duplicate the process for the left.

26. Remove the intake from the assembly. Disconnect the bypass hose from the factory intercooler and remove the clip and washer holding the stud into place. The intake will only slide out of the frame in one direction towards the turbo side.

26



27. Next remove the intercooler and ducts out as one assembly by removing the four clips and washers securing it to the frame.



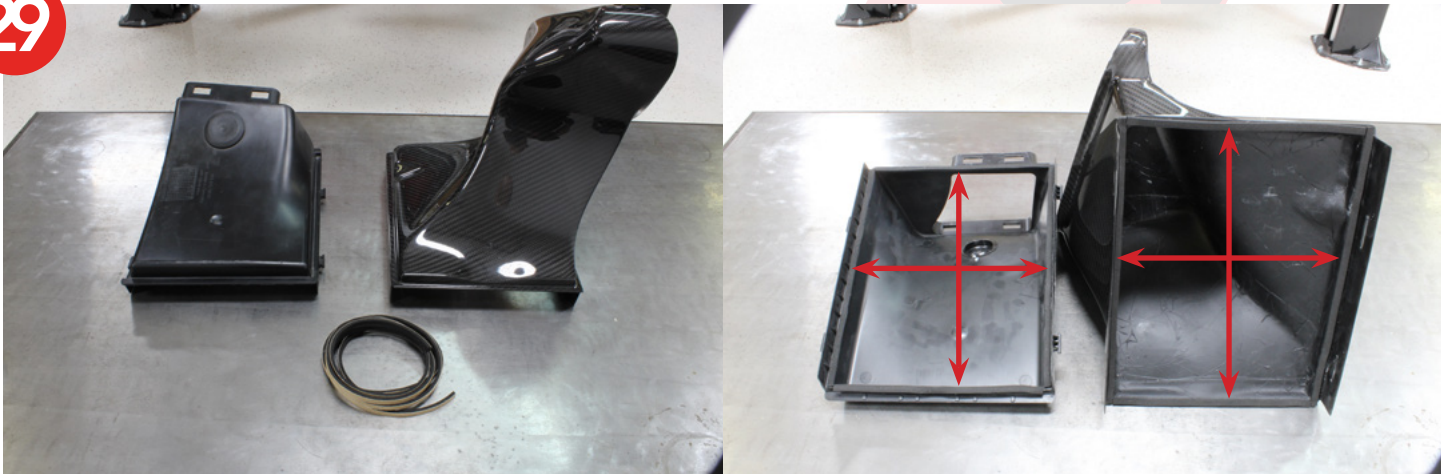
28. Once the intercooler is out, separate the intercooler ducts. Remove the seal from the lower duct and save it. The upper duct will be reused and the lower duct will be replaced with a new carbon duct.

28



29. Locate the lower carbon duct for the side you are working on by matching it to the factory duct. It will follow the same basic shape. Locate the supplied 1/4" foam stripping. Apply the foam to both the upper and lower ducts where they will rest on the intercooler core.

29



30. Locate the supplied Velcro straps. Slips four of the straps through the inside of the carbon duct as shown. The Alpha logo will be facing the outside of the duct. Install the duct onto the intercooler core.



31. Install the factory upper duct. Press the metal loop of the Velcro strap over the factory retention tabs located on the side of the duct. Center the ducts on the intercooler core then tighten the straps down.



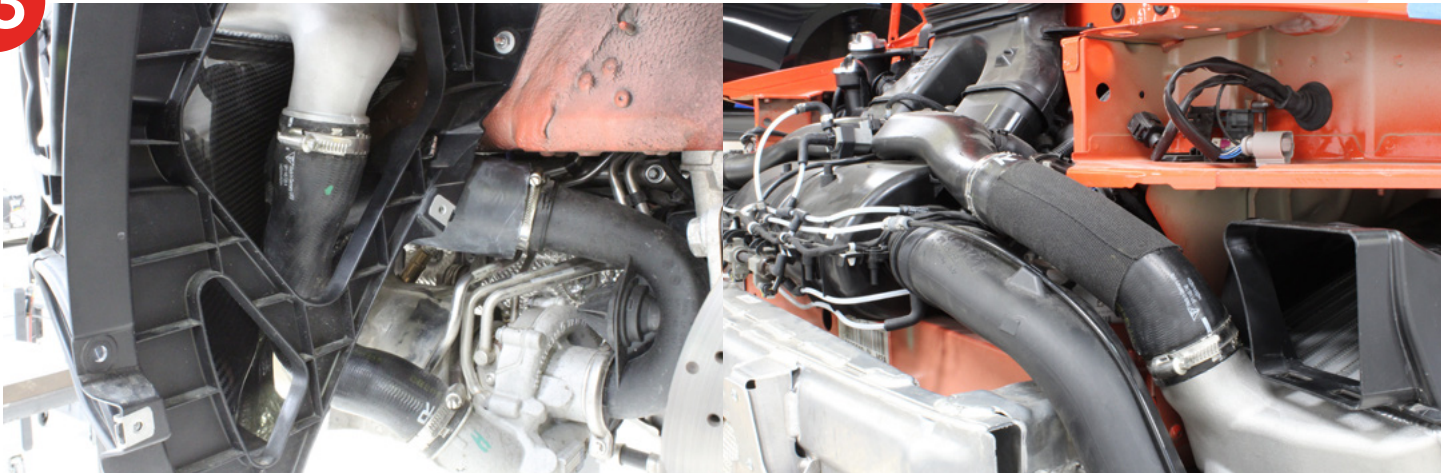
32. Install the intercooler assembly into the plastic frame in the reverse order of removal using the factory clip hardware. Reinstall the intake tube as well in the reverse order of removal.

32



33. Reinstall the assembly onto the car in the reverse order of removal. Reuse the factory intercooler couplers. Two new # 11.3 Oetiker clamps have been provided to aid in reconnecting the plastic tubing disconnected by the air filter box. Replace if necessary.

33



34. Reinstall the factory rubber seal around the lower duct outlet.

34



35. Double check all intercooler connections. Reinstall the remaining body components in the reverse order of removal.

36. Enjoy!

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