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Toyota Supra 3" Charge Pipe

INSTALL INSTRUCTIONS

2020 Toyota GR Supra w/ B58 3.0L Turbo Engine
2021 Toyota GR Supra w/ B58H 3.0L Turbo Engine

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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Disassembly

1. Push the white locking tab up and remove the electrical connector on the airbox. Then, using a flat blade screwdriver or 6mm socket, loosen the clamp holding the intake tube to the airbox. If your car is equipped with a strut tower brace, now would be the time to remove it.



2. Release the four metal clips to remove the upper air box.

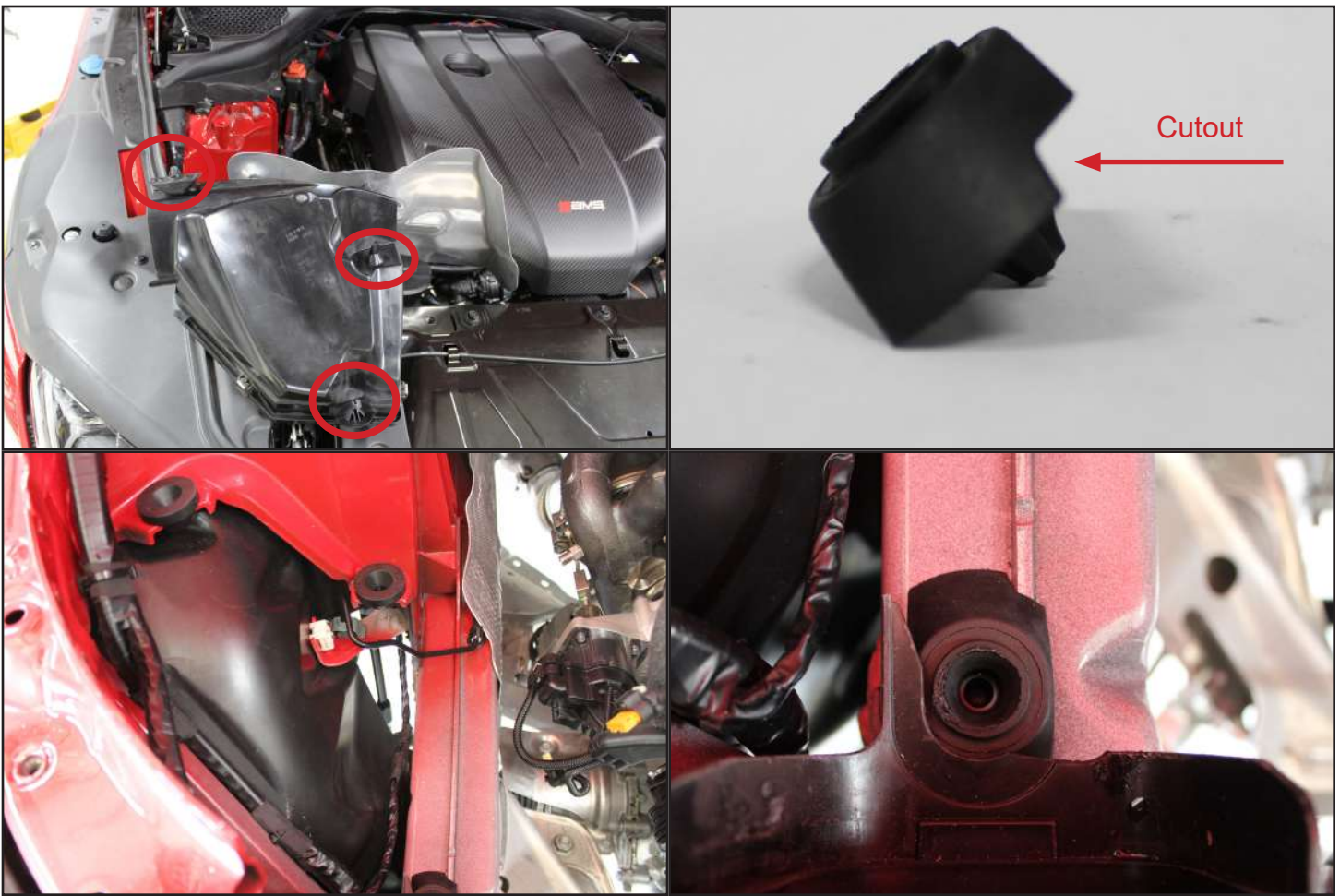


3. There are three grommets holding the air box in. One on the side and two underneath. Grab a hold of the lower airbox assembly and pull it straight up out of the grommets one at a time.

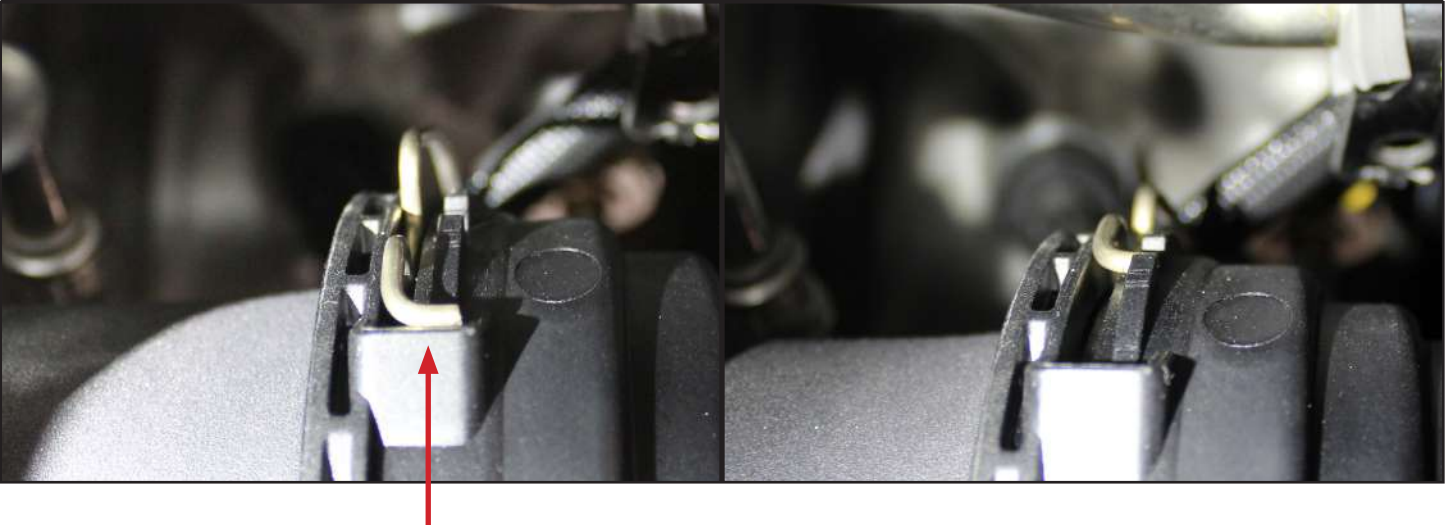


4. If the grommets came out with the airbox, remove them from the air box and reinstall them back in the car.

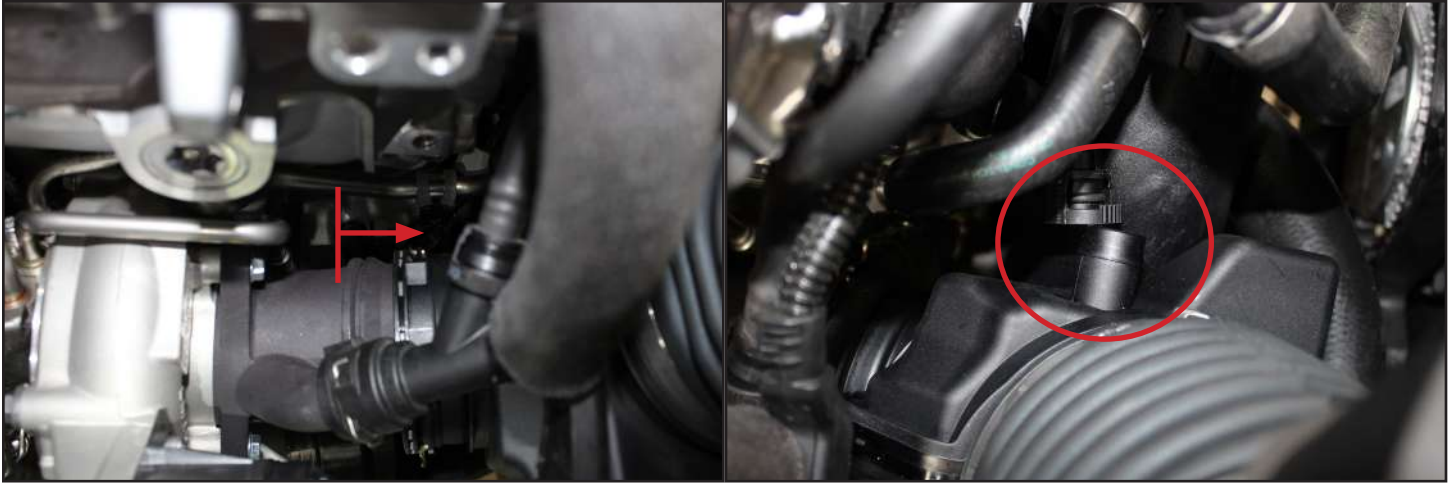
Note: The rectangle grommet has a cutout for the pinch weld under the airbox. Position it as shown.



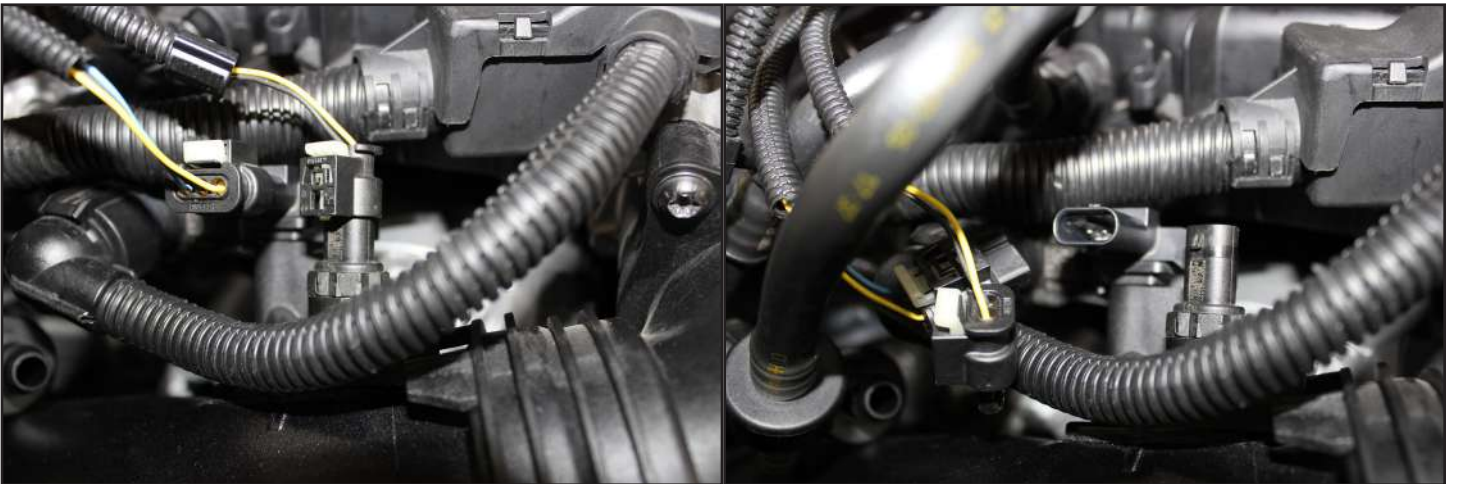
5. Remove the intake tube. First release the retainer “C” shaped clip holding the tube to the compressor inlet as shown. One end is visible on the top, the other end is underneath the tube.



6. Now wiggle the intake tube off the turbo about an inch or so to reveal the crankcase hose connection. Squeeze the connector and pull the line off. Then remove the inlet tube.



7. Unplug the two sensors on the charge pipe near the throttle body. Pull the white tabs out and press down while pulling on the connectors to remove them.



8. Remove the spring clip on the compressor outlet and pull the charge pipe toward the front of the car.



9. Remove the two T30 Torx bolts that connect the charge pipe to the throttle body. Pull the charge pipe off the throttle body and inspect the sealing ring for any damage, it will be re-used.



10. With everything disconnected, you can now remove the factory charge pipe from the engine bay. To make this easier, you can remove the bracket that mounts the small electric water pump to the front of the engine. Leave all hoses connected and remove the 10mm nut on the bottom of the bracket. This will provide you more space to pull the charge pipe out without damaging anything.



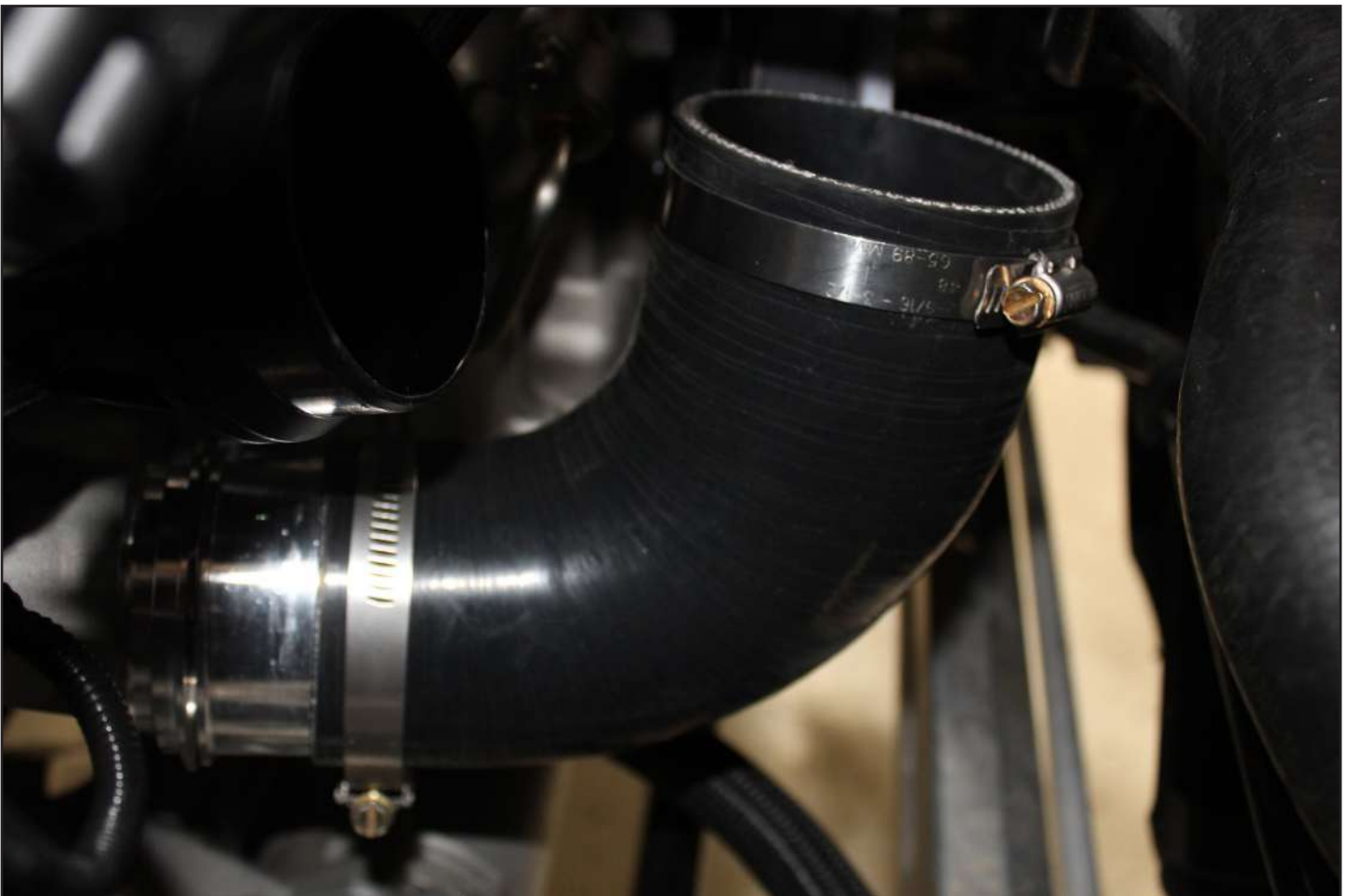
11. To install your new charge pipe, you first need to install the supplied adapters onto the throttle body and compressor outlet. Carefully remove the rubber sealing ring from the factory charge pipe and install it on the aluminum throttle body adapter. Use the same T30 Torx bolts to secure the adapter onto the throttle body



12. Remove the spring clip from the turbo side of the factory charge pipe and install it on the compressor adapter. Push the adapter onto the turbo and ensure that the spring clip sits in the slot on the compressor outlet.



13. Once both adapters are installed, locate the 90-degree silicone with the smaller opening on one end. Loosely place the #40 hose clamp on the smaller end of the silicone coupler and one of the #48 clamps on the larger side. Slide the smaller end onto the compressor adapter but leave the clamps loose for now. Orient the screws of both clamps as shown so they can be tightened once the charge pipe is installed.



14. Slide the longer leg of the remaining silicone coupler onto the longer leg of the charge pipe before installing it in the engine bay. Again, loosely install the remaining two #48 hose clamps. One side of the silicone is slightly longer, this side should slide over the charge pipe.



15. Transfer the two sensors from the stock charge pipe to the new one.



16. Slide the lower end of the charge pipe into the silicone coupler on the compressor side and push the upper silicone onto the throttle body. It will take some adjusting to get the pipe to sit correctly in the silicone couplers before you can tighten the hose clamps.

Note: The charge pipe was designed around the shape of the factory airbox and our AMS Intake. Some aftermarket intakes may fit differently and therefore may need some adjusting to make fit.



17. Once the charge pipe is seated in the couplers correctly, tighten the clamps to 40 in-lbs. Once that is done, the rest of the install is reverse of the disassembly process.



18. Enjoy your AMS charge pipe!