

**INSTALLATION
INSTRUCTIONS****Toyota GR Corolla
Intercooler Kit****2023+ Toyota
GR Corolla**

May 2024

Version

1.1

**TOOLS REQUIRED**

- Metric Wrenches/Socket
- Pliers Set
- Screwdriver Set
- Push Pin Pliers Set
- Trim Panel Removal Tool
- Razor Knife or Dremel/Rotary Tool

PARTS LIST

Qty	Component
1	GR Corolla Intercooler
2	M6 Button Head Cap Screws
2	M6 Fender Washers
1	S Hose Coupler
1	90° Hose Coupler
2	Small Dual Bead Clamp
2	Large Dual Bead Clamp

Remove components from the box and verify if all parts listed are present and free from damage. Failure to identify damage before installation could lead to the rejection of a claim.

The Jackson Racing x CSF Intercooler Kit is designed to be installed by a professional mechanic. If you have decided to complete the installation on your own, please be sure that you have the tools to handle the installation and the ability to follow all instructions completely.

Refer to the Toyota Service Manual for all safety procedures. The Toyota Service Manual is highly recommended.

Always wear safety glasses while working on your vehicle.

You will be working under the car so be prepared to raise the car up with a floor jack and support stands or use a professional hydraulic lift.

Always work in a well-ventilated area.

Many stock parts are reused/reinstalled during installation. Do not damage or discard any pieces during disassembly or installation. We recommend marking any hose or wire before disconnecting to avoid confusion during reassembly.

Bumper and Stock Intercooler Removal

1. Park the vehicle on a flat, level area and allow it to cool down. Disconnect the battery.
2. Raise the car up so that the underside plastic panels can be removed. Remove the plastic clips and bolts that hold the under tray to the front bumper and the radiator support.
3. Remove the plastic trim clips that hold the air filter inlet "snorkel" in place. Remove the plastic trim clips that hold the upper radiator plastic cover in place.
4. Unplug the sensor connector in the center of the bumper.
5. Unbolt the hood latch assembly and set it inside the engine compartment at this time. Pay attention to the orientation of the hood latch assembly. It will need to be reinstalled in the exact same orientation so that hood position is not affected.
6. On the leading edge of the front wheel opening/back side of the bumper you will see a small air vent. This is called an "air curtain". The air curtain is held to the inner fender by plastic trim clips. These clips also hold the inner "fender liner" to the air curtain. Remove the plastic trim clips so that the inner fender liner can be released from the fender curtain and then reinstall the clips so that the air curtain is secure again. This will allow the air curtain to remain intact on the inner front bumper when the bumper is removed.
7. Unplug the fog lamps.
8. Remove the front bumper by pulling on the rear edges where it meets the leading edge of the front fender. It will "pop" off of its plastic retainers. Set the bumper aside in a safe place so it doesn't get scratched.
9. Unbolt the front bumper "beam" where it bolts to the chassis below the headlights. This will open the area where the stock intercooler, horizontal air director and vertical shrouds are currently located.

10. Remove the horizontal clips that hold the horizontal air director that is located just above the stock intercooler. Remove this horizontal air director at this time.

11. There is a "one way" clip in the top of the vertical shrouds that holds the two vertical plastic shrouds in place on each side of the radiator. Remove these vertical shrouds. You will be trimming these two shrouds to fit the new intercooler's stepped upper cast aluminum tank.

12. From under the car, remove the hose clamps that hold the intercooler hoses to the intercooler and to the inlet and outlet pipes.

13. Unbolt the 10mm hex bolts on each side of the stock intercooler and remove the intercooler from the car. Be sure that the lower rubber intercooler mounts don't get stuck on the stock intercooler. Make sure that they are still in the front cross member.

14. Remove the rubber mounting grommets from the stock intercooler. Install them onto the Jackson Racing intercooler at this time.

15. Remove the stock intercooler hoses and clamps from the OEM tubing. You will not be reusing these components.

If you plan to paint your intercooler with the Jackson Racing stencil, which we think is the best idea, now is the time to do so!

Jackson Racing Intercooler Installation

16. Lube the inside of the small end of the new Jackson Racing intercooler hoses with a small amount of penetrating oil or grease and install them onto the turbo exit pipe on the passenger side of the engine compartment and the intake manifold inlet fitting on the driver side of the engine compartment.

S Hose – Passenger side
90° Hose – Driver side

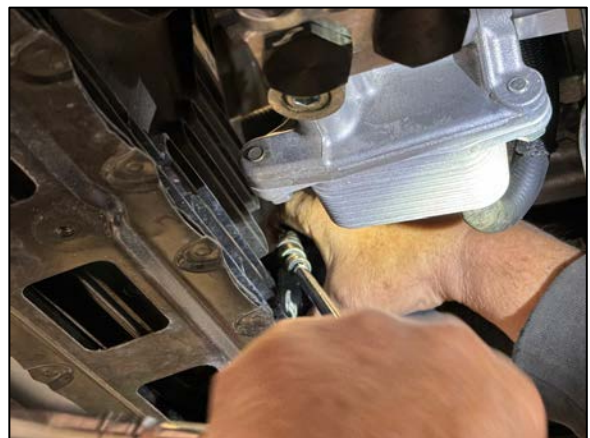
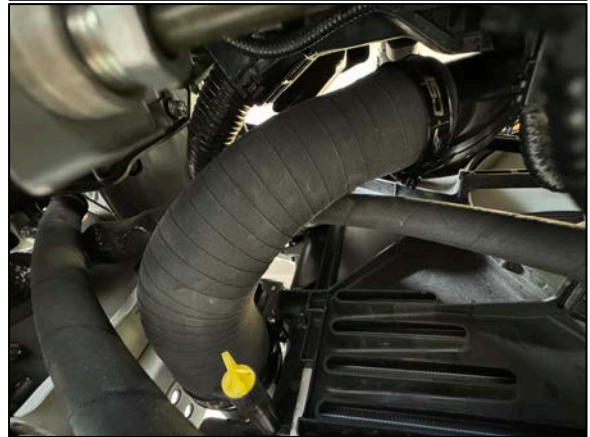
Install but leave the hose clamps loose at this time so the hoses can be rotated into natural alignment once the Jackson Racing intercooler is installed. Loosen and place the large diameter clamps over the hose on either side. They can be moved up into position once the intercooler is installed.

TIP: Install the large diameter clamps with the clamp hex bolts facing towards the engine. This will make it easier when tightening down the clamp. Also, you will need a small extension to get in there.

17. Lube the lower intercooler rubber mounts with penetrating oil or grease and then install the new Jackson Racing Intercooler into the lower rubber mounts. Install the original intercooler mounting bolts into the original mounting holes and torque to 9 ft lbs of torque.

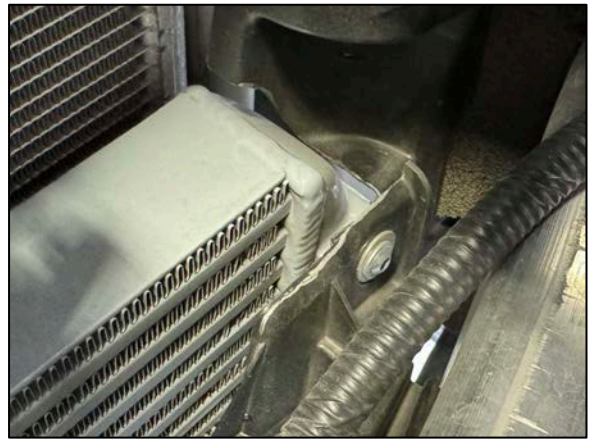
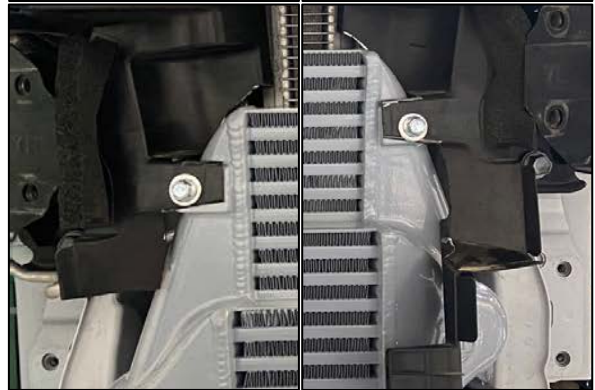
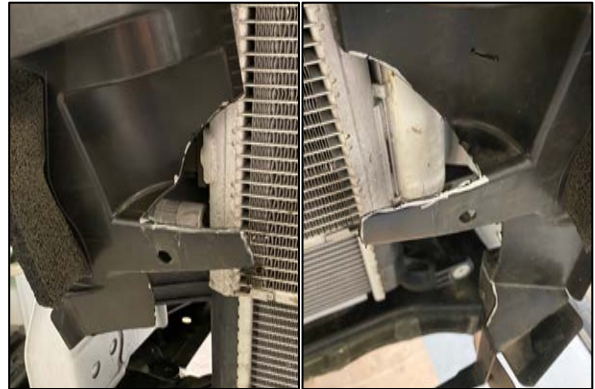
18. With intercooler in place, lube and fit the large side of S hose onto the passenger side intercooler pipe and the 90° hose on the driver side. Make sure the hoses find a natural alignment and are not twisted. Tighten all 4 hose clamps. You will need an extension to reach the large diameter clamps. If you have the hex heads facing towards the engine, you can reach.

NOTE- It is important to retain the OEM air shrouds to maximize not only intercooler performance, but vehicle cooling efficiency. It is highly recommended to perform these next steps.

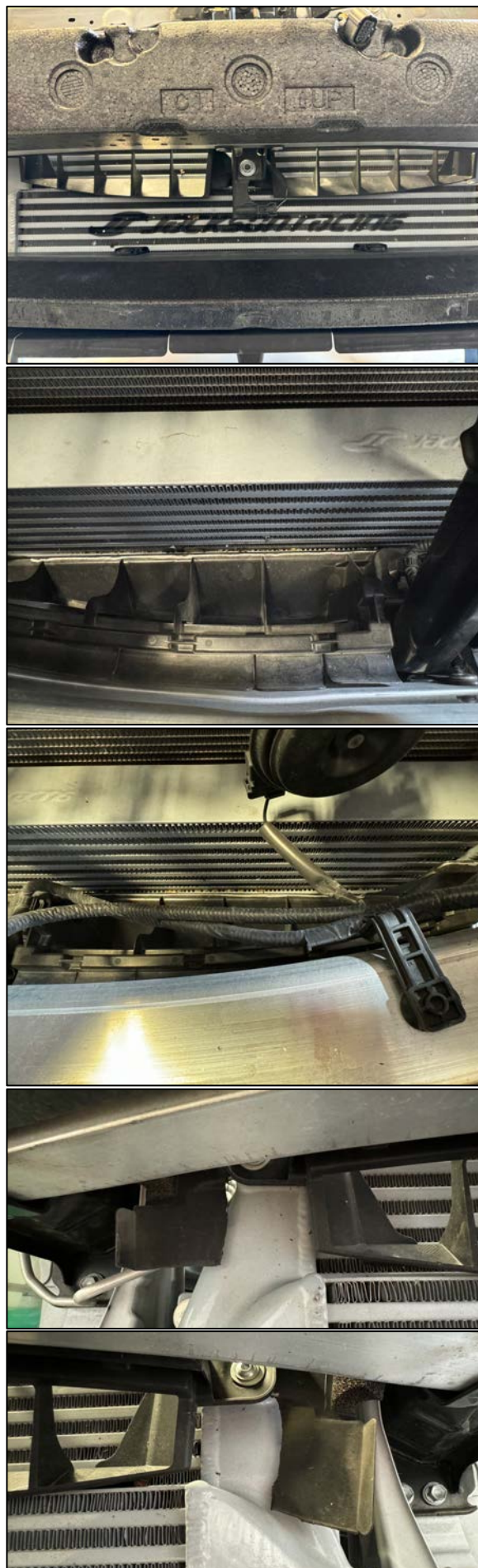


Refer to the photos for trimming of the vertical shrouds on the side and slowly trim the plastic until it fits snugly around the intercooler. Notice we used a Sharpie to mark an approximate edge and trimmed from there. You can clean the sharpie off with some contact cleaner when trimming is complete.

The vertical shrouds will eventually be bolted to the threaded bosses in the front of the intercooler along with the horizontal airflow director using (2) M6x1.0x16 Button Head Cap Screws (BHCS) and (2) fender washers.



The horizontal air director needs a small trim to fit snug to the intercooler core. This is a great OEM airflow piece that we take advantage of with the stepped core. Do not skip installation!



20. Once you are pleased with the fitment of all the plastic panels, use a small amount of Blue Loctite to the M6x1.0x16 BHCS and install them using the large fender washers. Tighten gently to not break the plastic trim pieces.

21. Reinstall the remainder of the front end in reverse order of the removal. Refer to the Toyota Service Manual for OEM torque specs. Reconnect the battery.

Your installation is complete!

Take a photo of your JR Stenciled GR Corolla intercooler and send to info@jacksonracing.com to receive free gear!