

First and foremost, thank you for purchasing this intercooler system from EC. Please do not hesitate to contact with any questions or assistance!

TOOLS NEEDED:

- Assorted Torx socket fittings and ratchet
- Assorted Metric socket fittings and ratchet
- Flathead screwdriver
- Phillips screwdriver
- Assorted Allen Key wrenches or tools

JACK THE CAR UP

Use jack stands or ramps and make sure the car is secure.

NOTE: During this install, you can work from above, below, or both. We recommend removing the belly pan, as well as your intake system and the fresh air duct connection for maximum coverage.

REMOVING THE STOCK INTERCOOLERS

-Using the diagram to the right, locate and remove screws and fasteners that secure the front fascia to the car. (Note: these are located in each wheel well, the front of the engine bay, and below the bumper joined with the factory belly pan underneath the car.

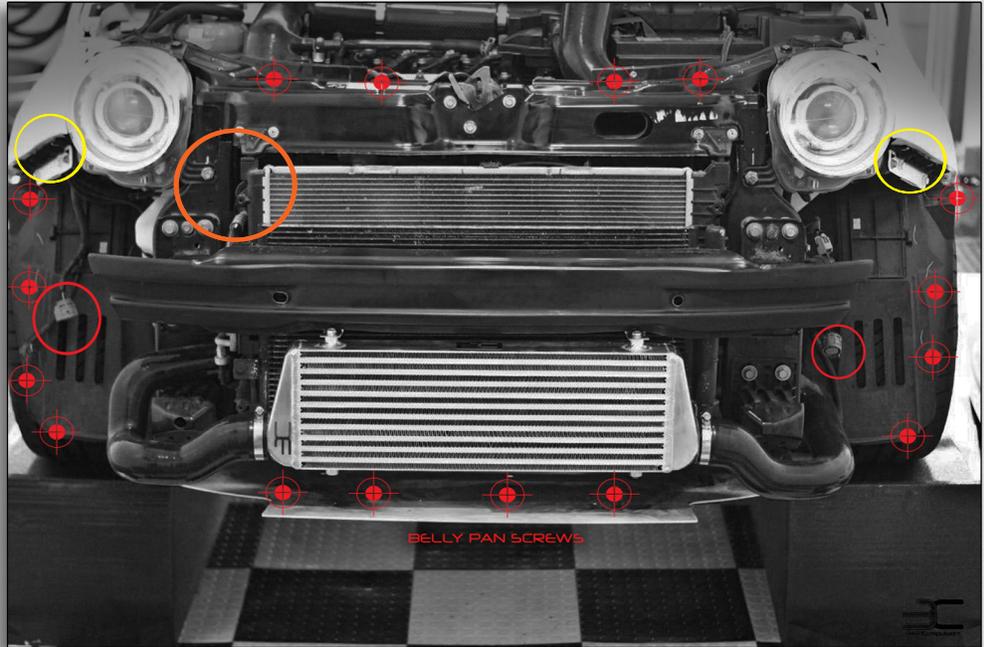
-Disconnect front fascia from clips near each headlight carefully. (Circled in yellow)

-Before pulling fascia completely off, be sure to disconnect signal and running light plugs on each side. (Circled in red)

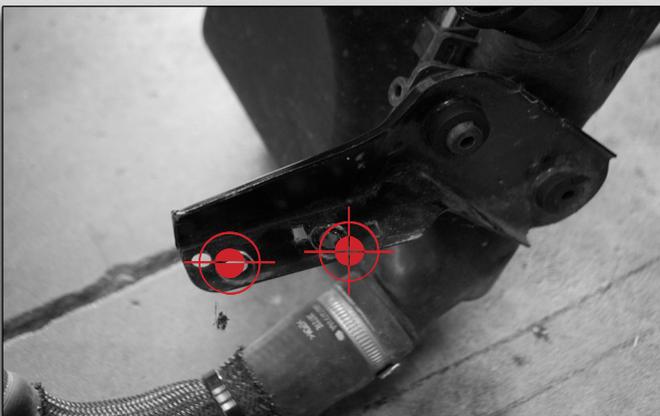
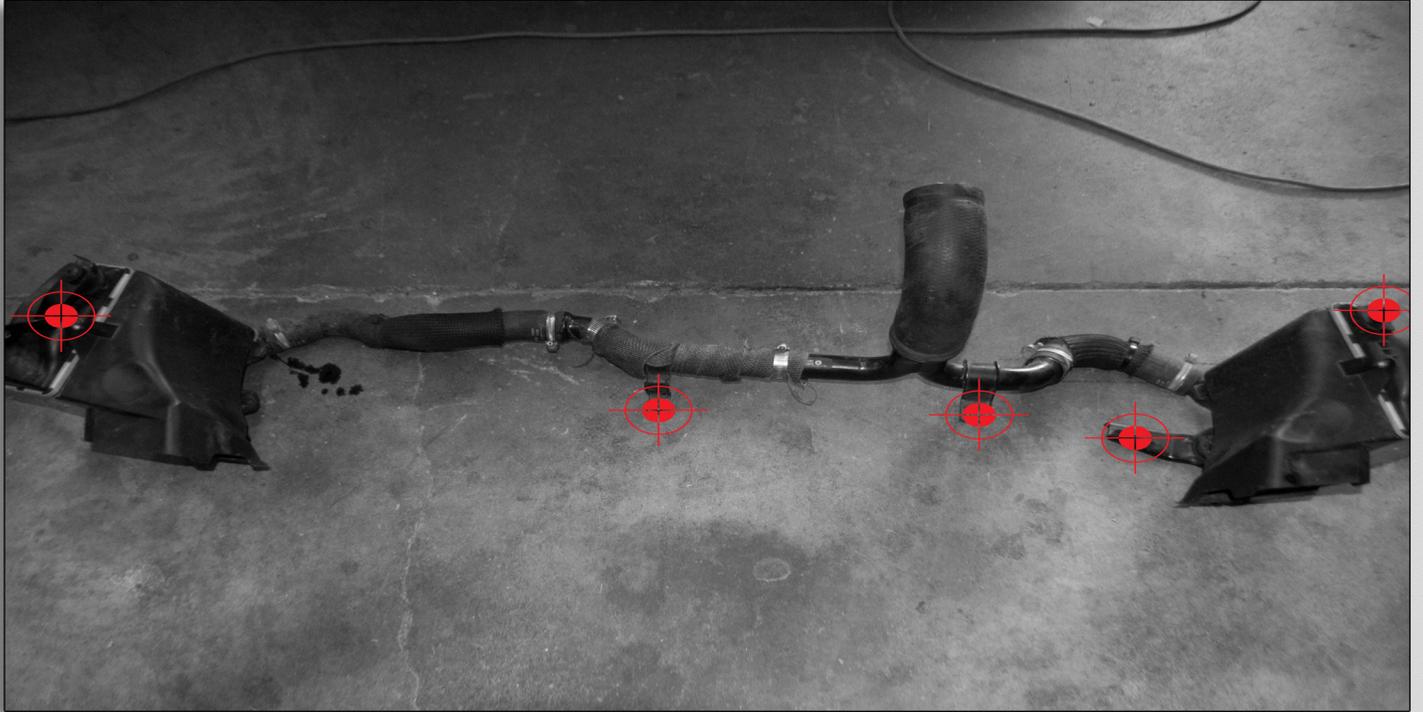
-Remove front fascia

-Now that the stock intercoolers and piping are exposed, locate the hot side intercooler hose. This connects at the bottom of the turbo and to the intercooler piping. Loosen this clamp and hose from the turbo. (The best way is to get to it through the radiator support. (Circled in orange above)

-Next, locate the cold side rubber hose that connects the chargepipe to the intercooler on the driver side. Loosen clamp and hose. (Circled in orange right photo)



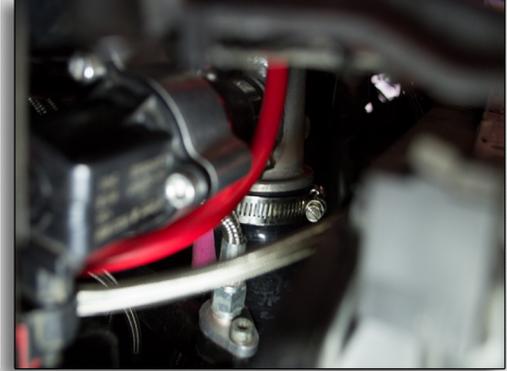
-There are several mounting points for the stock intercoolers. Most are brackets, you will loosen and remove these bolts one at a time. The other connection points are suction tabs secured by suction cups. These simply pull apart.



- Once the intercooler piping and hoses have been disconnected, remove all piping and intercoolers from vehicle

INSTALLATING THE EC INTERCOOLER SYSTEM

-Locate the silicone hot side piping, and connect to turbo with clamp in place, but not fully tightened. Use soapy water to lubricate the hose, and use the insert location shown in right picture. These are flexible and can be worked into place.

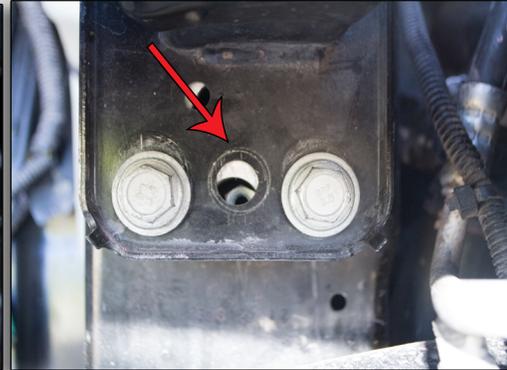
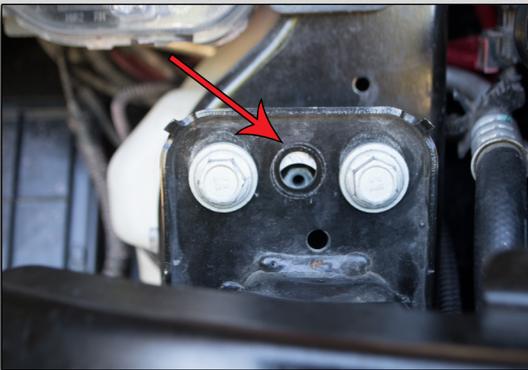


-Locate the silicone cold side piping, and maneuver it through the location shown in the picture to the right. This hose will connect to the chargepipe on the drivers side. You will need to make sure the hose and clamp are on correctly as the chargepipe inlet is very small.



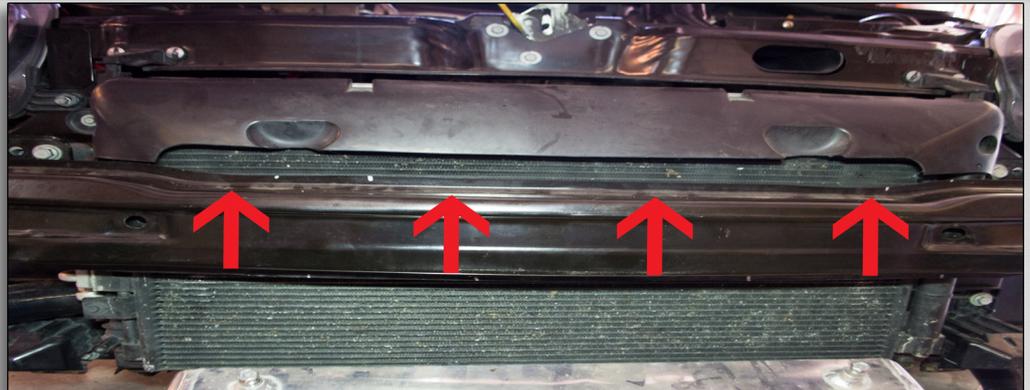
-Before mounting the intercooler, loosen the bolts holding up the front bumper crash support beam, and Remove the center assembly alignment bolt from each side, both top and bottom.

-Push the front support upward as much as it will go. It can move roughly 1/4 inch, and will make a great difference in fitment once the front fascia is back on. Then retighten bolts.



-Once adjusted and tightened down fully, the brackets for the crash support should sit roughly a 1/4 inch higher than before.

(As seen in our photos to the right of the crash support brackets).



MOUNTING THE INTERCOOLER

-Use the provided brackets and hardware to mount the intercooler into place. First, mount the brackets to the Intercooler. **HAND TIGHTEN ONLY! Leave the bracket semi loose and pointed inward at an angle (see pictures).**

NOTE: There are two difference brackets!

-Passenger side bracket has an extra piece of support metal welded to it.

-Driver side bracket is a simple L-shape design.

EXAMINE BOTH CLOSELY BEFORE INSTALLATING!



-The Intercooler is now ready to be hoisted into place and connected to the crash support.



MOUNTING THE INTERCOOLER

Follow these guidelines to install hardware to mount intercooler.

-DO NOT OVER TIGHTEN!!

Doing so will bend the bracket and alter fitment of the intercooler.

It does not have to be very tight to hold in place and fit properly.

Hardware includes: (2) Allen head socket bolts, (2) washers, (2) locking nuts, (2) Additional socket bolts for fitment variations.

1. Insert socket bolt with washer through bumper and guide through bracket hole (driver side first)

2. Guide locking nut onto socket bolt from the opposite side of bracket. Do not fully tighten

3. Repeat on passenger side. Finger tighten locking nut only. As hardware is tightened, parts will align more easily.



4. Holding intercooler in place, use allen head to tighten socket bolts. Locking nuts will spin into place and compact against bracket. **DO NOT OVER TIGHTEN!**

5. Finish by tightening intercooler mounting bolts from above. **DO NOT OVER TIGHTEN!**

6. Intercooler should sit with similar clearance below to the condenser.



The finished look should resemble intercooler clearance and fitment as shown on the right.

QUICK TIP:

We recommend finger tightening all parts first to ensure fitment is correct and hardware is not over tightened.



CONNECTING THE PIPING AND INTERCOOLER

- Once the intercooler is mounted, you can now connect the silicone piping to the intercooler on both sides.

-ATTENTION!!!! TIGHTEN DOWN ALL CLAMPS!!

You can now tighten all clamps on both sides of piping. Please be sure that your silicone is connected well, and that the clamp placement is correct.

-**DON'T FORGET!** Be sure to double check the silicone connections to the turbo and chargepipe that you mounted previously. Make sure the hose is secure and the clamps are tight.

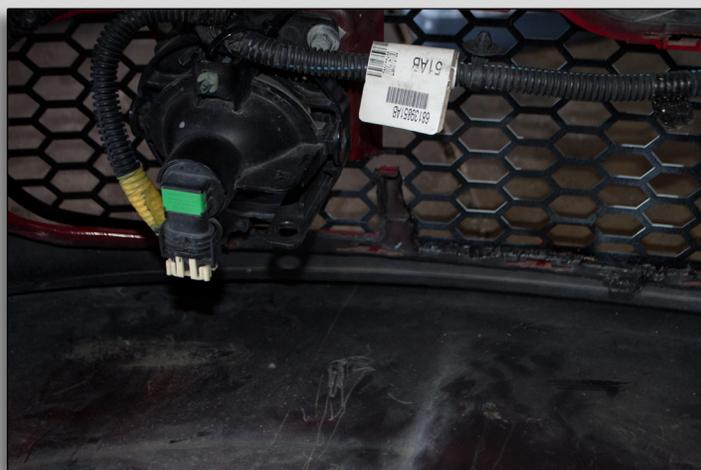


-You are now ready to reinstall the front fascia back on the vehicle. Do this slowly, and make sure that your hoses and intercooler line up properly. The fit will be tight.

For extra clearance, you can dremel or lightly file some of the tabs inside the fascia and around the fog lights for a smooth fit (see right photo).

QUICK TIP

When reinstalling the front fascia, we recommend starting at the bottom and working your way up while holding the front end in place. This will help with a more solid factory fitment.



CONGRATULATIONS

You have successfully completed this installation

