

# ZZPerformance

## Chevy Cruze Intercooler Install Instructions

### Kit Parts:

#### Couplers:

1. 1.5" to 2.0" silicone coupler (turbo exit to lower charge pipe)
2. 2.0" to 2.25" silicone 45° coupler (lower charge pipe to IC)
3. 2.25" to 2.25" silicone 45° coupler (IC exit to upper charge pipe)
4. 2.0" to 2.25" silicone 45° coupler (upper charge pipe to throttle body)

#### Clamps:

1. t-bolt clamp 188x1 (turbo charger exit)
2. t-bolt clamp 238x3 (turbo charger exit, IC hot side, throttle body)
3. t-bolt clamp 262x4 (intercooler in/out and upper throttle body coupler)

#### Hardware:

**Some hardware is for the automatic equipped Cruze only.**

1 (3 Automatic) - Self-tapping screws



2 - 8mmx1.25 boltsx2



2 - 8mmx1.25 nutsx2



(2 Automatic) - 6mmx1.00 boltsx2



(2 Automatic) - 6mmx1.00 nutsx2



(2 Automatic) - transmission cooler relocate bracketsx2



1 - 1/8 npt pipe plug and 1 - 1/8 npt 3/16<sup>th</sup> barb fitting



### Parts Removal:

1. Disconnect Battery
2. Raise the car on the hoist or support with jack stands
3. Remove underbody plastic shields. This requires a T20 torx bit, 8mm socket and a clip removal tool.



4. Once you have removed the plastic shields you gain access to the lower hot side charge pipe. Using a flat blade screw driver or an 8mm socket remove the lower hot side charge pipe.



### **Bumper Cover Removal:**

1. First, remove 6 screws (3 on each side) from the inner fender plastic. This requires a T20 torx bit.



2. Next, remove the outer push clips on each side of the vehicle that attach the bottom spoiler to the bumper cover.



3. Moving to the top of the vehicle remove the two bolts from the bumper cover using a 10mm socket. Next, remove the four push clips across the top of the bumper cover.



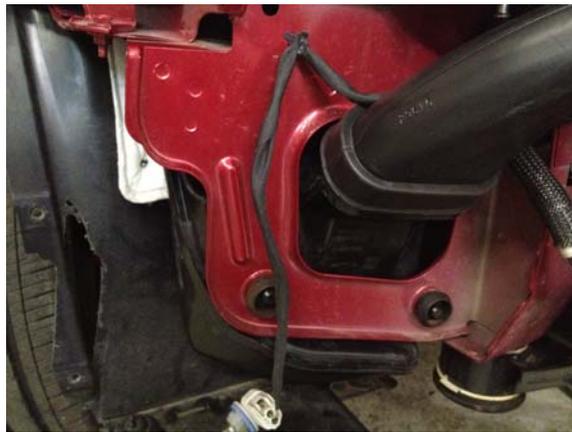
4. Now, carefully pull the bumper cover off of the bracket holding it to the fender starting on the side closet to the wheel. Repeat on opposite side.



5. Next, remove the air intake tube using a 10mm socket. **You will not be re-using this.**



6. You can remove the air box silencer though this is not mandatory.



7. Remove the plastic in front of the radiator using your clip tool. **You will not be re-using this.**



8. Next, remove your upper core support plastic by removing 4 bolts with a 10mm socket.



9. Remove the plastic covering the radiator, intercooler, and condenser. **You will not be re-using this.**
10. Now, remove the Intercooler pipes from each side of the Intercooler. Simply pull back the metal spring clips and slide the tubes off of the IC. **You will not be re-using these pieces.**



11. Next, remove the upper charge pipe. **You will not be re-using this pipe.**



12. Now, remove the a/c condenser from its mounting brackets. Push the lock tab back and slide the condenser up and out of the brackets. Let the condenser hang. It will support its own weight without hurting anything.



13. (Automatic only) Now, remove the transmission cooler from its brackets and swing it away from the radiator. The transmission cooler is removed the same way you removed the a/c condenser.



14. Next, remove the Intercooler.



15. Once you have removed the IC you can install the a/c condenser into the same location that the Intercooler was removed from.



### **Transmission Cooler Install:**

1. Using the supplied hardware mount the transmission cooler into its new location. Install the relocate brackets on the transmission cooler using a 10mm socket and 10mm wrench. Do not tighten them completely. Tighten the brackets applying only light pressure until the install is complete. Place the transmission cooler on the bumper reinforcement and mark both hole locations using a sharpie. Using a ¼ drill bit, drill a through hole on each sharpie mark. Using the supplied self tapping screws mount the transmission cooler and tighten all supplied hardware. The self tapping screws require a 13mm socket.



**Intercooler Install:**

1. Using a 5/16<sup>th</sup> drill bit, drill clearance hole through the lower radiator support brackets.



2. Install the new ZZPerformance Intercooler using the supplied 8mmx1.25 bolts and nuts. This will require a 13mm wrench and socket. You will have to bend the a/c line out of the way to make room for the new intercooler. Don't worry you will not break the lines if you use some common sense. The metal is soft and requires no sharp tools just light pressure.



3. Make sure the Intercooler is centered and mark the third mounting location with a sharpie. Drill a 1/4 hole in the bumper reinforcement then install the supplied self tapping screw.



4. Now, you can install the lower charge pipe. Make sure all couplers are rotated properly and installed completely on the turbo and piping. Take your time so you don't have to do it twice. The t-bolt clamps require an 11mm or 7/16 socket.



5. Next, move onto the installing the upper charge pipe. Remove your map sensor from your factory charge pipe and install it in your new ZZP pipe. Removing the sensor requires a T20 torx bit and installation requires a 5mm allen wrench. The extra port on the map sensor pad is for reading boost or what ever you decide to do with it. **If you are not going to use the port make sure the pipe plug is installed to prevent a boost leak!**





Install your bumper cover, splash shields, etc... In reverse order and enjoy!

**Thank You for purchasing our products!**

**ZZPerformance**