



Installation Instructions
Sonic Intercooler Package



Estimated Installation Time: 4 Hours

Installation Difficulty: 3/5

NOTE: For questions on this product, please email customerservice@zzperformance.com

Kit Contents:

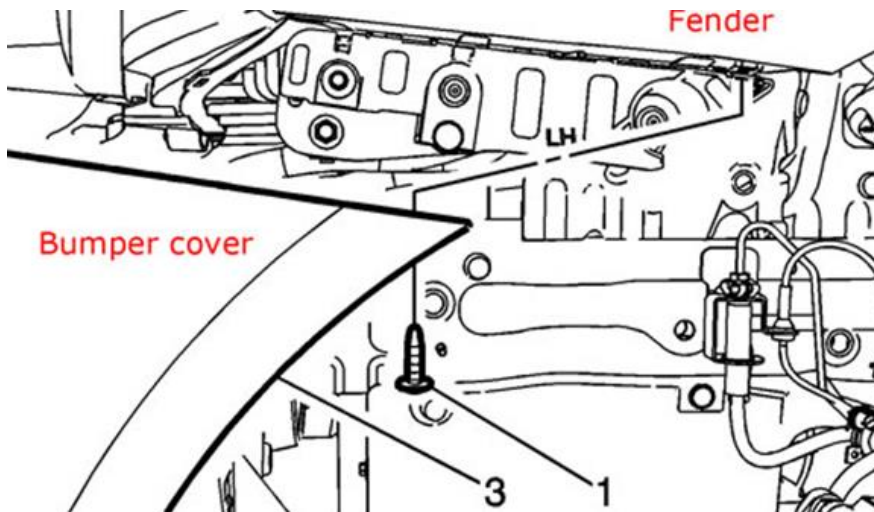
- 1 – Lower Intercooler Pipe A
- 1 – Lower Intercooler Pipe B
- 1 – 2" 45° Silicone Coupler
- 1 – 1.5" to 2" Straight Silicone Coupler
- 1 – 94100-188 T-Bolt Clamp
- 6 – 94100-238 T-Bolt Clamps
- 2 – 94100-262 T-Bolt Clamps
- 1 – M6 x 14MM Socket Cap Screw
- 1 – Sonic Front Mount Intercooler

With Larger Throttle Body Only:

- 1 – Sonic Larger Throttle Body
- 1 – Sonic TB Adapter Plate
- 1 – Sonic TB Intercooler Pipe
- 4 – M6 x 20MM Socket Cap Screw
- 4 – M6 Washers
- 1 – 94100-325 T-Bolt Clamp
- 1 – 94100-275 T-Bolt Clamp
- 1 – 2.25" to 2.75" Straight Silicone Coupler
- 1 – 2" Straight Silicone Coupler
- 1 – 2.25" to 2" Straight Silicone Coupler
- 1 – ZZP Logo Stencil

Tools Needed:

- Trim Tool
- T20 Socket
- 7mm Socket
- 11mm Socket
- Wrench
- Wrench Extension

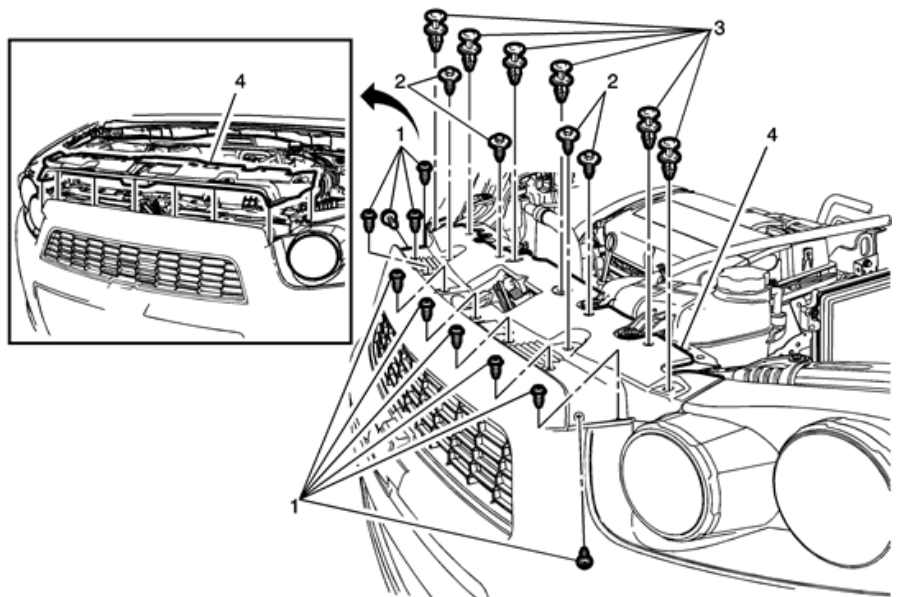


STEP ONE:

- Raise vehicle and support with jack stands for front bumper cover removal.
- To remove front bumper cover
 - Remove screws from wheel well liners that attach to bumper cover (on each side)

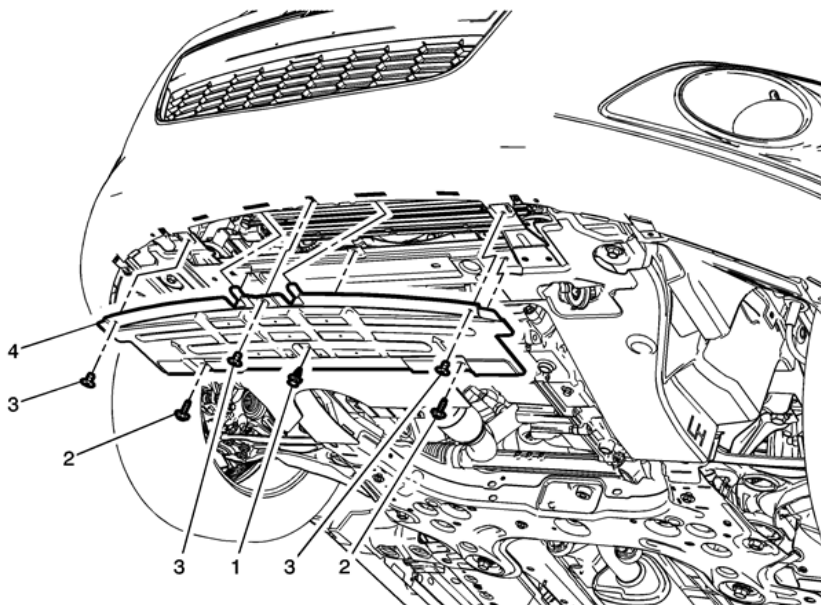
STEP TWO:

Remove upper radiator cover as shown.



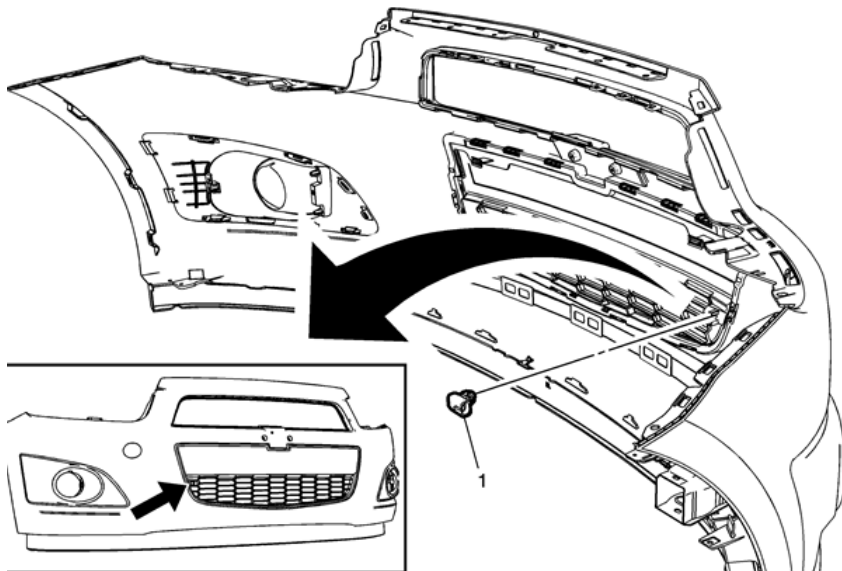
STEP THREE:

Remove lower air damn below radiator as shown.



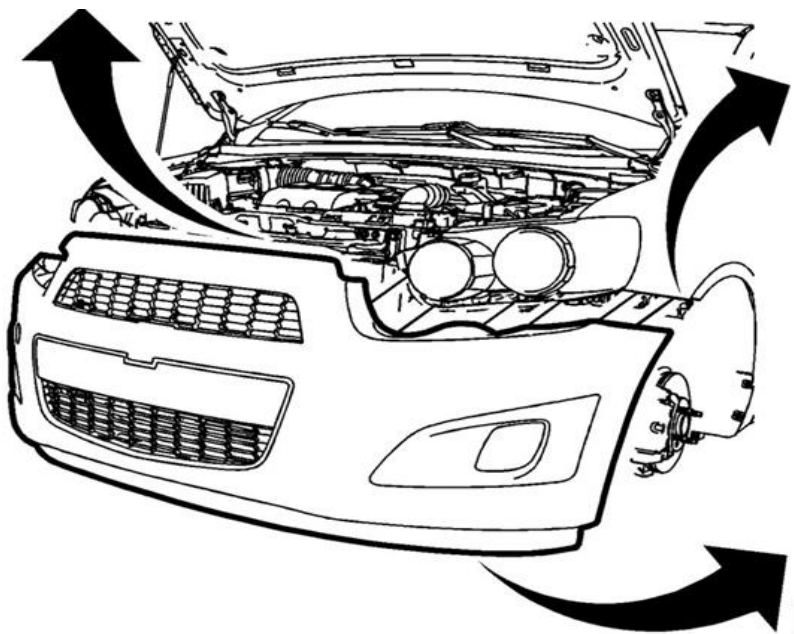
STEP FOUR:

- Disconnect outside air temp sensor from lower grill.
- At this time you'll also want to disconnect any remaining electrical connections to items in the front grill such as fog lights.



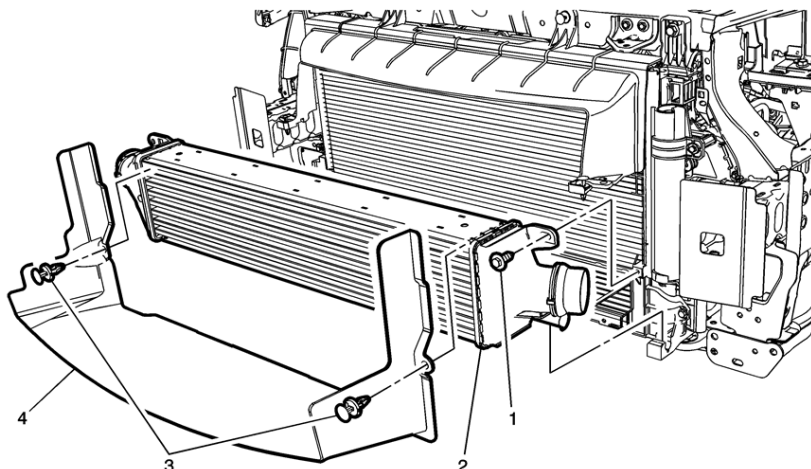
STEP FIVE:

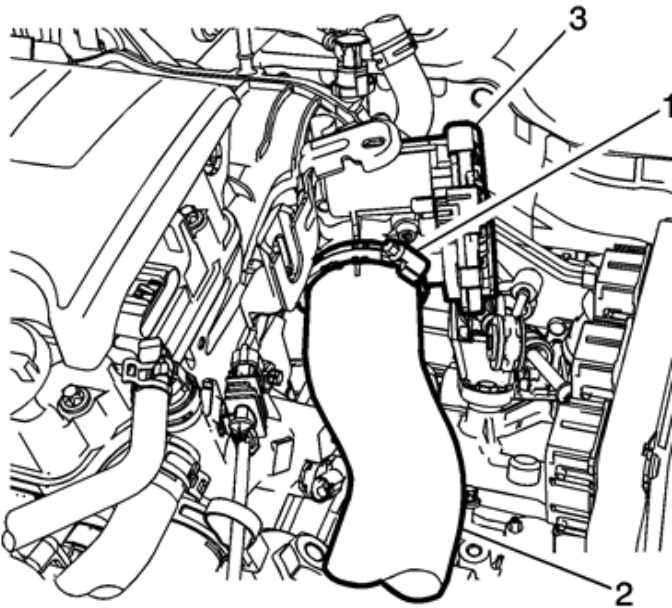
Bumper fascia will pull off with a forward motion. Soapy water can be used on friction surfaces to make job easier. We recommend using masking tape on the painted surfaces to avoid scratches.



STEP SIX:

- Unplug the MAP sensor from the lower charge pipe.



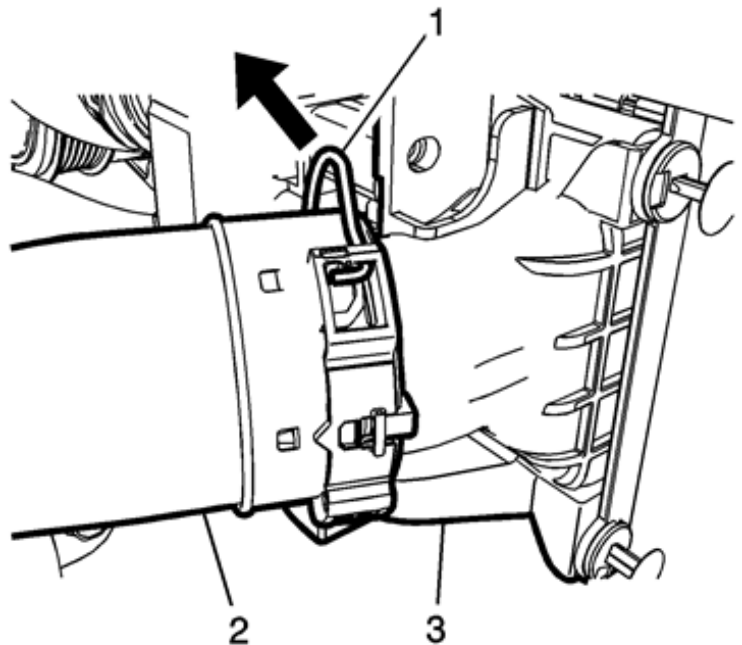


STEP SEVEN:

Remove the upper pipe that connects from the throttle body to driver side wheel well.

STEP EIGHT:

- Remove the lower pipe that connects from the driver side wheel well to the stock intercooler core.
- Pull the factory upward to remove from vehicle.



STEP NINE:

Photo shows the stock, and ZZP upper and lower charge "cold side" pipes as they will be assembled in the car.

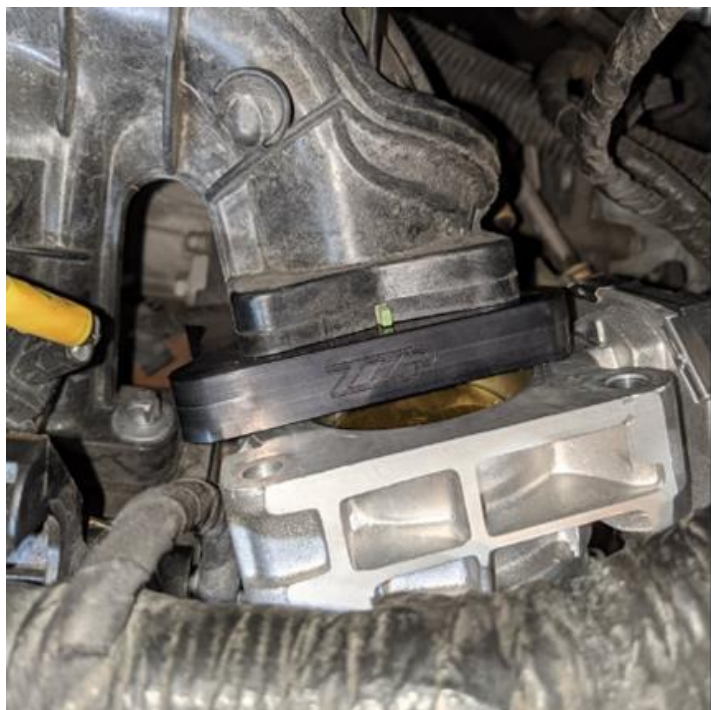


STEP TEN:

From under the car, loosely install the new ZZP lower driver side charge pipe that connects the IC core to the ZZP upper that you have not installed yet. Make sure that you situate the clamps in a way that you can easily tighten them.

STEP ELEVEN:

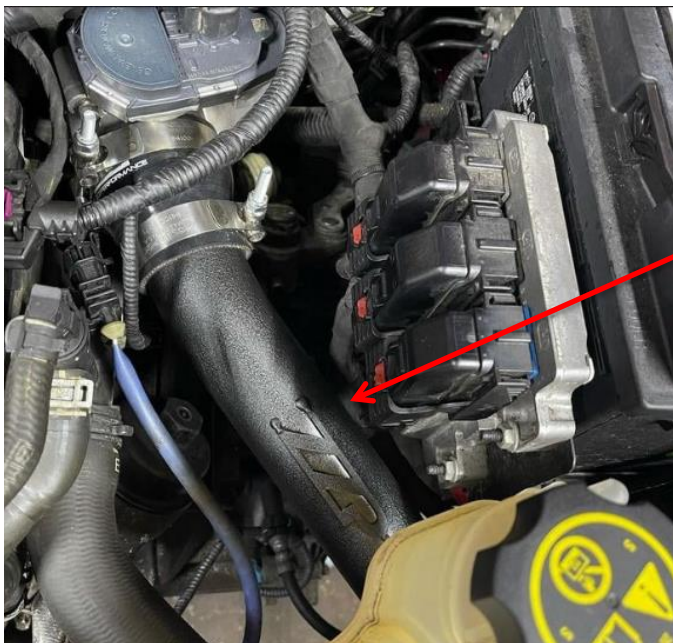
(Larger throttle body only) You'll now have to unplug and remove your stock throttle body. After removing the throttle body you will want to install the spacer provided onto the intake with the ZZP logo facing up, and the O-ring towards the throttle body like shown.



STEP TWELVE:

You may notice that the throttle body does not fit properly. You will need to rotate the new throttle body 90° to the left so that the plug is facing up. If the new throttle body doesn't fit, you may have to remove the engine bracket shown above (arrow). You can then attach the 2.25" to 2.75" Straight coupler to throttle body, tighten the coupler and plug in the new throttle body.



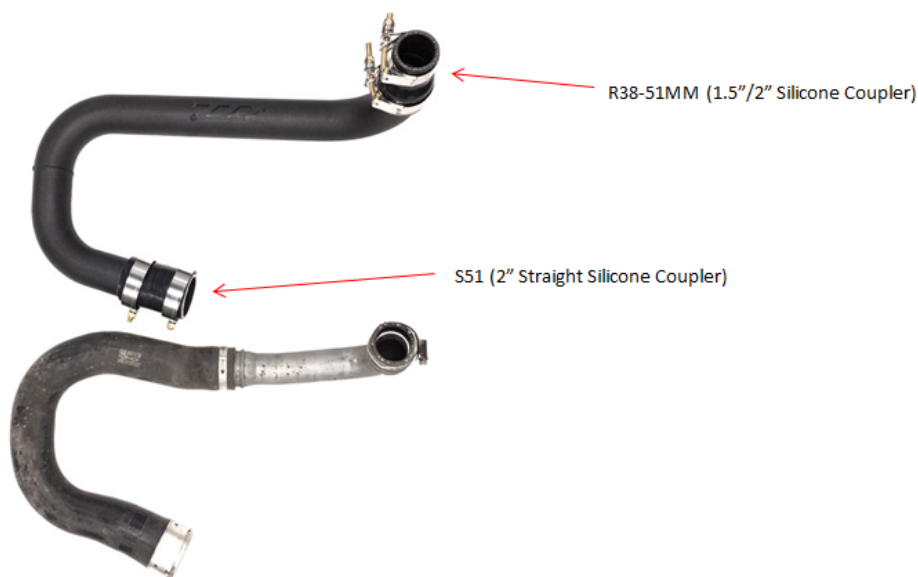


STEP THIRTEEN:

- You may now loosely install the new ZZP upper driver side charge pipe that connects from the lower pipe you installed earlier to the throttle body coupler.
- Since both driver side pipes are loosely installed now, you can move them around so they are not making contact with anything that they shouldn't be and then tighten all 6 of the T-bolt clamps using hand tools only, do not tighten with power tools on any T-bolt clamps.
- Plug the MAP sensor back in.

STEP FOURTEEN:

- Now move to the passenger side, from under the car, remove the stock pipe that connects the turbo to the intercooler core, unlike the cold side pipes, this one can be removed as 1 piece.
- Photo shows the stock and ZZP "hot side" pipes as they will be assembled in the car



STEP FIFTEEN:

- Remove the factory MAP sensor, and install it in the new ZZP charge pipe.
- At this time you will decide if you want to install a fitting in the charge tube hole or just install the 1/8" NPT plug to fill the hole. Rare: People that would install a manual boost controller would install a barbed fitting instead for the boost supply to the controller.
- Now it is time to install the new ZZP hot side charge pipe, make sure to install the clamps in a direction that allows easy access to tighten them.
- Once the pipe is installed and not rubbing on anything you can tighten all 4 of the T-bolt clamps.
- Now it is time to reinstall the plastic pieces and reinstall the clips/screws that hold the inner wheel wells in place.