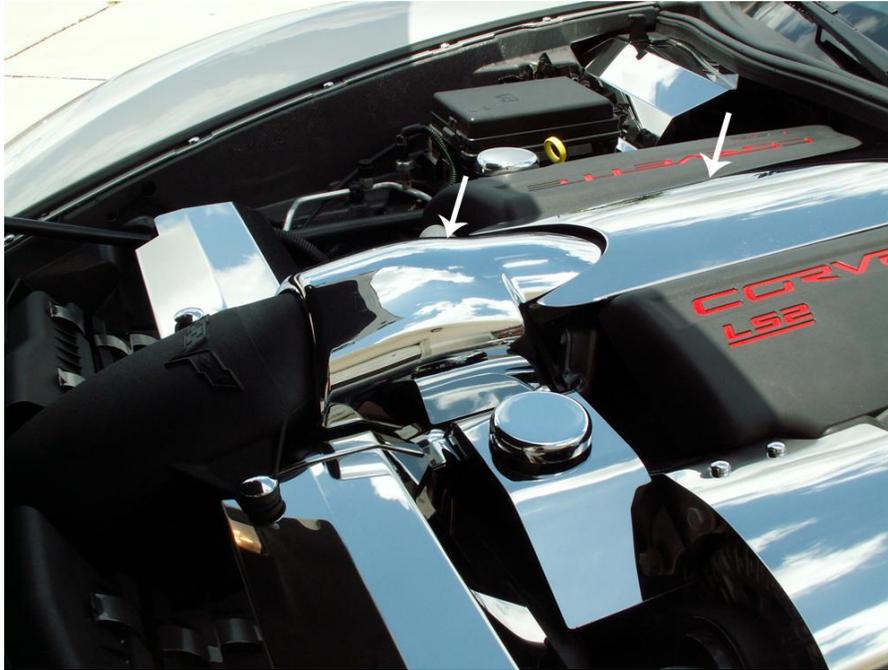




AMERICAN CAR CRAFT INSTRUCTIONS

C6 Corvette LS2 Designer Series Plenum / Throttle Body Cover

Part #043101



PARTS INCLUDED:

- (1)Plenum Cover
- (1)Throttle Body Cover
- (1)Velcro Strip
- (1)Adhesive Promoter
- (2)9/32" ID Rubber Vacuum Hose(1-36"long and 1-21"long)

This unique custom plenum cover set-up is a special accessory designed specifically for the 2005-2007 LS2 engines. The kit has two additional accessories that are designed to work specify with this kit. They are the LS2 custom radiator cover and the LS2 custom air tube cover. This kit will work with the factory black plastic fuel rail covers as well as the ACC stainless steel replacement fuel rail covers. It will **NOT** work with our "Clip over" fuel rail covers.



AMERICAN CAR CRAFT INSTRUCTIONS

Liner info:

1. The first step for this installation will be to mark the location of the factory fuel rail covers edges directly to the intake using a pencil or a silver sharpie marker. This mark will help you to set the replacement fuel rail covers should you be installing that kit with the custom throttle plenum cover set.
2. You have been provided with a packet of adhesive promoter. Apply this fluid to the exposed silver fuel line between the two plastic fuel rail covers. You have been provided with a 5.5" furry Velcro strip. Peel the release liner from this Velcro and apply it directly to the fuel rail cross tube. Press firmly along its length to set the Velcro.
3. Remove both fuel rail covers. You will notice that your LS2 has two hard plastic vacuum lines routed along the driver's side fuel rail and across the throttle body. Remove these two vacuum lines by pushing the white retainer ring in to quick release the hard plastic lines from their ports. You have been provided with two replacement vacuum lines, one 36" line and one 21" line. Remove the lines one at a time so as to not cross connect these lines by mistake. Starting with the longer vacuum line, reroute the soft and flexible vacuum line so that it runs under the engine harness sleeve between the fuel injectors and coil pack bracket. This available space will essentially hide the vacuum line as you slip the vacuum line onto the port you exposed at the very back of the engine. Once you have made that connection slip the other end of the vacuum line under the throttle body and lead it up to the other exposed vacuum port and slip the vacuum line over this port, making sure it does not kink. There will be more than adequate space under the throttle body to allow you to reroute the two new vacuum lines in the area. The smaller vacuum line will be able to be rerouted and connected in this same way.





AMERICAN CAR CRAFT INSTRUCTIONS

4. The last lines to reroute will be from the connector coming out of the Mass Air Flow Sensor and the vacuum line attach to the crinkle tube connecting the main air tube to the throttle body. Remove the hard plastic vacuum line by sliding the quick connect retainer lever on the main tube and then simply pull the line and rubber connector to release the entire line from the stainless vacuum tube running alongside the fuel rail.
5. Loosen the three large stainless hose clamps securing the crinkle tube and the Mass Air Flow Sensor. Using a flat blade screw driver, work the crinkle tube and Mass Air Flow Sensor loose as these rubber tubes tend to get stuck to the throttle body and air tube over time. Once loose, rotate the crinkle tube so that the vacuum port is all the way down towards the passenger side. Be sure it can still be reconnected. Now retighten the hose clamp on the crinkle tube.



6. Next, rotate the Mass Air Flow Sensor toward the driver side, so the electrical connector is all the way down. Be sure it can still be reconnected, now go ahead and reconnect electrical connector. The purpose of this rotation is to allow you to reroute the hard plastic line under the electric throttle body motor. The hard plastic vacuum line just happens to be in a shape that will allow you to slip it under this area and out to the new crinkle tube location and up to the stainless port. All you will need to reattach the tube will be to rotate by hand both the 90 degree quick connect and rubber tube connector, so that they will be able to be reattached. It will appear as if they were made to attach in this new way. Now that you have successfully replaced and rerouted all three vacuum lines you can now slip the new molded hard plastic chrome throttle body cover by tucking the front end under the factory radiator shroud and set it down onto the throttle body. You will notice that the new cover will fit like a glove, requiring no further attachment. Remove the blue protective liner from the cover.



AMERICAN CAR CRAFT INSTRUCTIONS



7. The next step will be to carefully install the new custom plenum cover. You will notice that the new cover contains a bracket just under the front U-shaped end. This bracket has been designed to tuck under the two fuel rail covers, holding the front end of the new cover securely in place as the Velcro pad toward the rear of the cover will attach securely to the fuel rail, which you installed earlier. A properly set plenum cover will not touch the molded cover but should have an even gap of about an eighth of an inch or less all the way around the U-shape and set nicely along the fuel rails. Remove the protective liner, to finish the installation.

If you have any questions during installation please call American Car Craft at

727-861-1500.

Thank you and enjoy your new purchase.

**American Car Craft LLC
18924 Sakera Rd Hudson, FL. 34667
Ph 727.861.1500 Fax 727.861.1520
www.americancarcraft.com**