

# **SINISTER DIESEL**



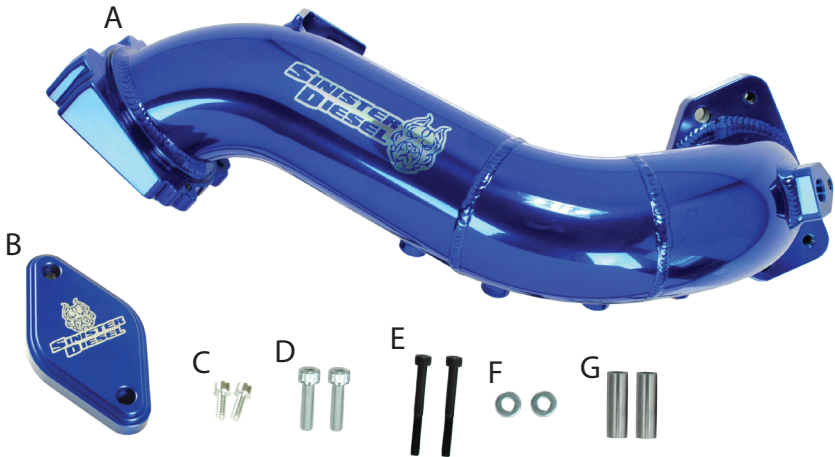
**2011-2014 GM LML  
INTAKE BRIDGE  
AND RESONATOR DELETE**



## DISCLAIMER

- 1) By installing this product onto your vehicle, you assume all risk and liability associated with its use.
- 2) It is your responsibility to make sure your vehicle complies with all federal, state, and local emissions laws. Federal and many state and local laws prohibit the removal, modification or rendering inoperative of any part of the design affecting emissions or safety on motor vehicles used on a public street or highway. Violation may result in a fine of up to \$32,500 per vehicle (or possibly higher depending on changes in the law). All civil penalties and fines for removing your vehicle's emissions equipment are the sole responsibility of the end user.
- 3) Due to its high performance nature, this product may void vehicle manufacturer's warranty.
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# Duramax LML Intake Bridge Kit



## PACKING LIST:

<u>Part#</u>	<u>QTY.</u>	<u>Description</u>
A	1	Sinister Intake Bridge
B	1	Resonator Delete Block
C	2	M6x16mm Allen head Bolts
D	2	M8x30mm Allen Head Bolts
E	2	M6x55mm Allen Head Bolts
F	2	1/4" Flat Washers
G	2	1.5" Stand Off Spacers

## Recommended Tools

10, 12, and 13mm Sockets  
5 and 6mm Allen Wrenches  
Large Flathead Screwdriver

***Read all instructions prior to install.***

***Note:*** Prior to installation, please compare the parts that you have received with the bill of materials provided on this page to assure that you have all the parts necessary for the installation.



**CAUTION!!!** Never work on a hot vehicle. Serious injury in the form of burns can result if the vehicle has been in use. Allow vehicle to cool prior to installation. Always wear eye protection when working on or under any vehicle.

**Note:** It is recommended whenever working on a vehicle that all batteries are disconnected for safety purposes. Installation of the Sinister Diesel Intake Bridge requires disconnecting a sensor.

**Step 1:** Using a 10mm socket, remove the stock intake resonator box by removing the two bolts. One bolt is located behind the resonator box by the fire wall. (Image 1)

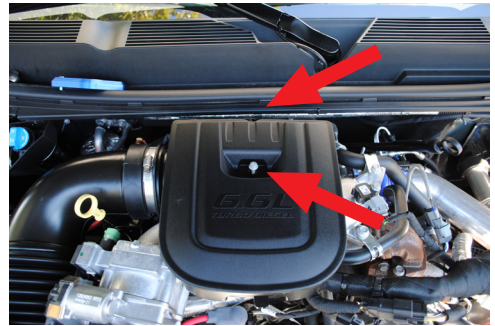


Image 1

**Step 2:** Using a 5mm allen wrench, install the Sinister Resonator Delete Block in place of the stock resonator box. (Image 2)



Image 2

**Step 3:** Unlock the charge pipe by using a large flathead screwdriver to turn the locking ring counter clockwise. Place the tip of the flat head screw driver into the groove on top of the locking ring, and push it toward the passenger side while pulling forward on the charge pipe by hand. (Image 3)

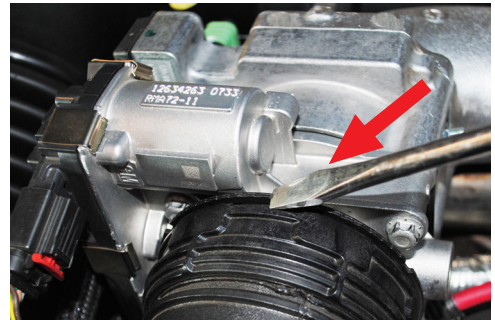
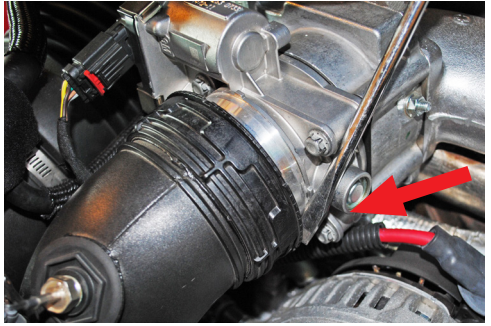


Image 3

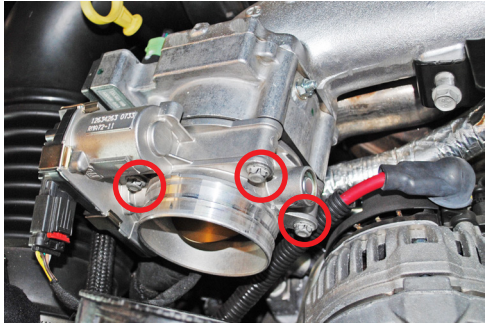


**Step 4:** Using a large flat head screwdriver pry the plastic charge pipe from the throttle valve. Only apply light pressure. *(Image 4)*



*Image 4*

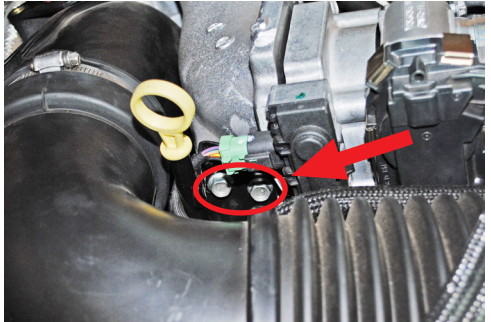
**Step 5:** Using a 10mm deep socket or extension, remove the four bolts securing the throttle valve and heater grid to the factory intake bridge. Also remove the support bracket that secures the whole assembly to the alternator. This bracket will not be used with the intake bridge. *(Circled in Image 5)*



*Image 5*

*Note: One bolt is not visible in image 5.*

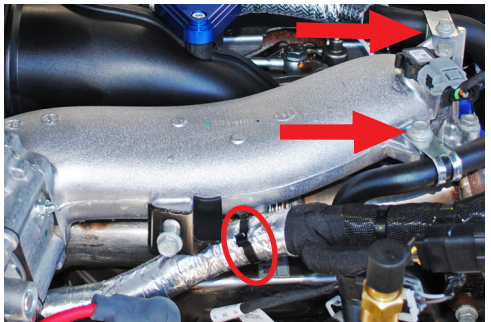
**Step 6:** Using a 12mm socket, remove the two bolts securing the dipstick bracket to the stock intake bridge. *(Circled in Image 6)*



*Image 6*

**Step 7:** Remove the zip tie securing the wire harness to the stock intake bridge. *(Circled in Image 7)*

**Step 8:** Using a 10mm socket, remove the two hose clamps securing the rubber hoses to the intake bridge. *(Image 7)*



*Image 7*

**Step 9:** Using a 13mm socket, remove the two mounting bolts that secure the stock intake bridge to the motor. *(Circled In Image 8)*

**Step 10:** Disconnect the pressure sensor plug on the stock intake bridge. *(Image 8)*

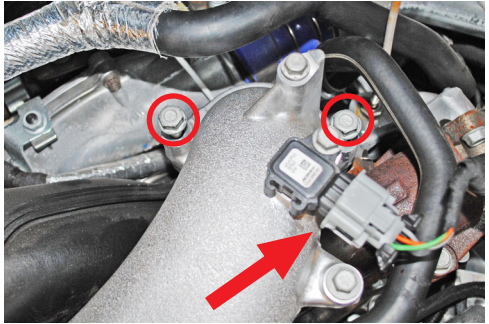
**Step 11:** Remove the stock intake bridge from the engine.

**Step 12:** Using a 10mm socket, remove the pressure sensor from the stock intake bridge. *(Image 8)*

**Step 13:** Install the pressure sensor to the Sinister Diesel Intake Bridge. *(Image 9)*

**Step 14:** Using a 12mm socket, remove the bolt securing the EGR crossover tube. *(Image 10)*

**Step 15:** Install the Sinister Diesel Intake Bridge and reinstall the bolt from the previous step hand tight. *(Image 11)*



*Image 8*



*Image 9*



*Image 10*



*Image 11*

**Step 16:** Secure the intake bridge flange to the motor with the supplied M8 allen bolts. *(Image 12)*



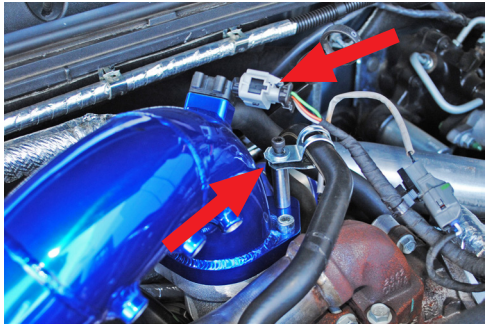
*Image 12*

**Step 17:** Using a 12mm combination wrench, tighten the bolt that was installed hand tight in step 15. This will re-secure the intake bridge and the EGR crossover tube.

*(Image 11)*

**Step 18:** Reconnect the wire to the pressure sensor on the Sinister Diesel Intake Bridge. The hoses can be secured to the new intake using the provided long allen bolts, spacers, and flat washers.

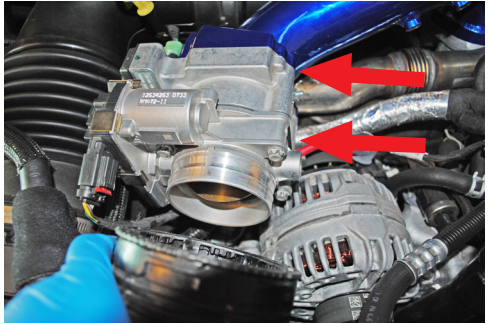
*(Image 13)*



*Image 13*

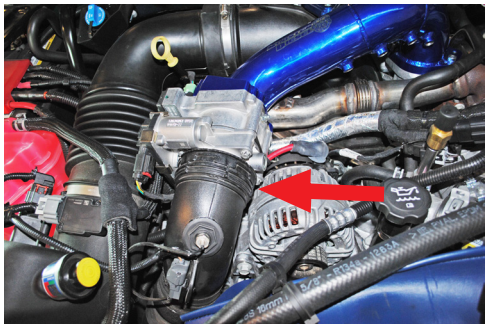
**Step 19:** You may have purchased optional intake gaskets to assure a proper seal after reassembly. These replace the gaskets that go before and after the heater grid. Be sure they are placed in the proper location and direction. Using a 10mm deep socket, reinstall the throttle valve and heater grid.

*Note: the heater grid gasket location is indicated in image. (Image 14)*



*Image 14*

**Step 20:** Reconnect the plastic charge pipe by pushing on it until the locking ring clicks locking it in place. *(Image 15)*



*Image 15*

**Step 21:** Reconnect the batteries.





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