### PACKING LIST:

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<tr>
<th>QTY.</th>
<th>Description</th>
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<tr>
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<td>Blue Intake Block Off</td>
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<td>2</td>
<td>Exhaust Block Off</td>
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<td>1</td>
<td>Support Bracket</td>
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<td>1</td>
<td>Coolant Hose</td>
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<td>Hose Clamps</td>
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<tr>
<td>4</td>
<td>M8 x 20 Cap Head Bolts</td>
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<tr>
<td>2</td>
<td>1/4 -20 Cap Head Bolts</td>
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<td>2</td>
<td>1/4 Lock Washers</td>
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**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: With a used vehicle, we suggest using a penetrating spray lubricant to be applied liberally to all exhaust fasteners. When doing so allow a significant amount of time for the chemical to lubricate the threads before attempting to disassemble.

Step 1: Disconnect batteries.

Step 2: Drain engine coolant.

Step 3: Remove the plastic engine cover that is held in place by four 8mm bolts. Note: The dipstick must be removed in order to remove the plastic engine cover. (Image 1)

Step 4: Loosen the two V-band clamps and remove the 10mm bolt in the center of the tube, the EGR crossover tube can now be removed. (Image 2)

Step 5: Remove the electrical connector on the EGR valve. (Circled in image 3)

Note: Some electrical connectors may have a locking tab. In order to remove these connectors the tab must be slid into the “unlock” position.

Step 6: Remove the EGR valve that is held in place by four 10mm bolts. (Image 3)
**Step 7:** Remove any existing gasket material from the mounting surface on the intake elbow. *(Image 4)*

*Note:* It is important to keep gasket debris from getting in the open intake ports. We recommend putting a clean rag in each port to keep any excess gasket material out of the intake.

**Step 8:** Unplug the electrical connector (equipped with locking tab) on the back side of the throttle valve. The throttle valve is located on the driver side, just under the intake elbow. It is important to leave this unplugged in order to keep the throttle valve from permanently closing. *(Image 4 & 5)*

*Note:* An alternative to leaving the throttle valve unplugged is to install the Sinister Diesel Throttle Valve delete, which will also increase flow through the intake.

**Step 9:** Install the Sinister blue intake block off with the supplied bolts. Ensure that both O-rings are fully seated. *(Image 6)*

**Step 10:** Remove the heat shield from the EGR bypass. The heat shield is held in place by three 10mm nuts and two 8mm bolts. *(Image 7)*
**Step 11:** With the heat shield out of the way remove the four 10mm bolts that secures the exhaust bypass in place. *(Image 8)*

*Note: The exhaust bypass remains in place for later removal.*

**Step 12:** Remove the four 10mm bolts securing the EGR servo mounting bracket in place. *(Image 9)*

**Step 13:** Simultaneously remove the EGR servo (still attached to the mounting bracket) and the exhaust bypass (bolts removed in step 11) from the vehicle.

**Step 14:** Remove the crankcase breather tube that runs over the EGR cooler. Also, disconnect the two coolant lines running to the EGR cooler. *(Image 10)*

**Step 15:** Remove the four 10mm EGR cooler mounting bolts. *(One of which is circled in image 10)*

**Step 16:** Remove the two 15mm nuts connecting the EGR cooler to the exhaust manifold.

**Step 17:** Remove the V-band clamp that is connecting the EGR cooler and the exhaust crossover elbow. *(Image 11)* *Note: Image shown with the V-band clamp removed.*
**Step 18:** Remove the EGR cooler, this can be done by pulling the cooler up and out towards the front of the vehicle. *(Image 12)*

**Step 19:** Remove exhaust crossover elbow that is held in place by two 15mm nuts.

**Step 20:** Remove EGR cooler mounting bracket by unbolting the two 14mm bolts that bolt directly to the engine. *(Image 13)*

*Note:* The bolts are not visible in the image, however the arrows give a general idea of where the bolts are underneath the mounting bracket.

**Step 21:** Install both exhaust block off plates, reusing the factory hardware. The block off with the pre-drilled port will be installed on the back side of the exhaust manifold. *(Image 14)* The block off that is not pre-drilled will be installed in place of the exhaust crossover elbow.

**Step 22:** Re-install the crankcase breather tube. *(Image 15)*

**Step 23:** Using the new supplied coolant tube, connect the two coolant ports that previously went to the EGR cooler. *(Image 15)*
Step 25: Using the factory hardware, attach the provided support bracket to the rear mounting hole on the engine block where the egr cooler bracket was mounted. **Note:** The bolt hole is directly behind the vertical coolant line.

Step 26: Use the provided hardware to attach the dipstick tube and coolant tubes to the support bracket. (Image 16)

Step 27: Refill with new manufacturer recommended coolant and mix according to label.

Step 28: The installation of the Sinister EGR delete kit is complete and ready for testing. Start the engine and run until coolant circulates. Top off coolant system as necessary and make a close inspection for any leaks. (Image 17)

Step 29: Re-install plastic engine cover.