

EGR Coolant Riser Relocation Kit:

(2013-2018 Ram Cummins)



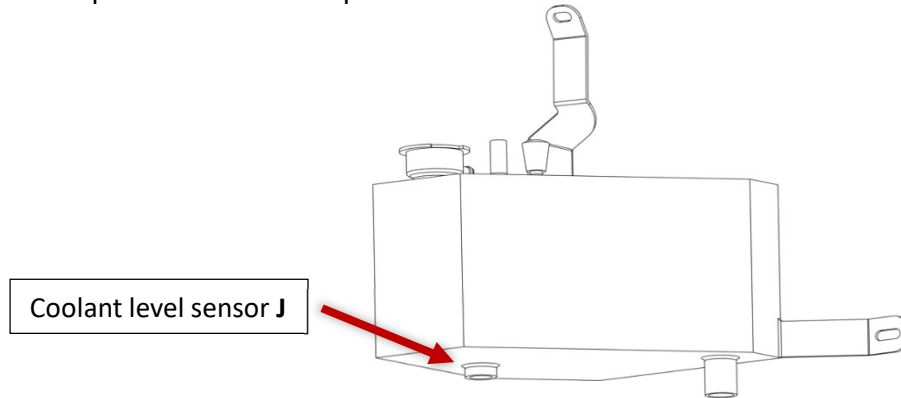
Bill of Materials

Refer to this table often to compare example photos with the materials needed.

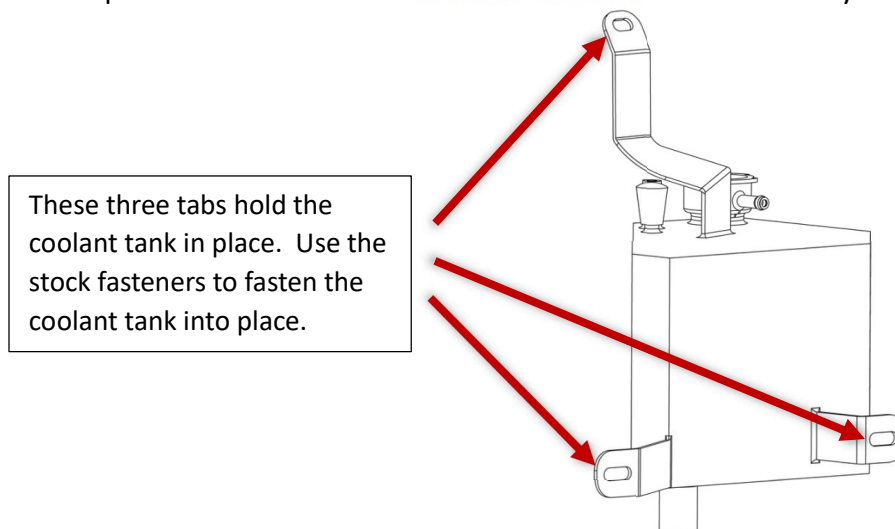
<u>Material Letter:</u>	<u>Material Specification:</u>	<u>Quantity:</u>
A	Waterline Connection Fitting	1
B	O-Ring	1
C	Male-Male Elbow Fitting	1
D	Male-Female Elbow Fitting	1
E	Straight Barb Fitting	1
F	Male-Male Straight Fitting	1
G	Elbow Barb Fitting	1
H	Big Clamp (21-38mm)	1
I	Small Clamp (13-27mm)	4
J	Coolant Level Sensor	1
K	Heater Core Inlet Hose	1
L	Heater Core Outlet Hose	1
M	Steel Braided Hose	1
N	Coolant Tank	1
O	6" Insulation Sleeve	2

Coolant Tank Installation:

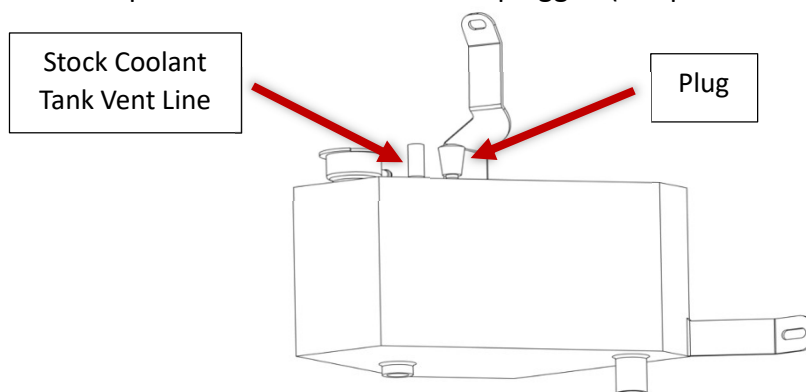
Step #1: Fasten coolant level sensor **J** into the threaded port located on the bottom of coolant tank **N**. include pipe thread tape to the threaded part of the sensor to ensure no leaks occur.



Step #2: Install coolant tank **N** in the stock coolant tank location. Use the stock fasteners to fasten the coolant tank in place. Once installed connect the coolant level sensor to your trucks harness.

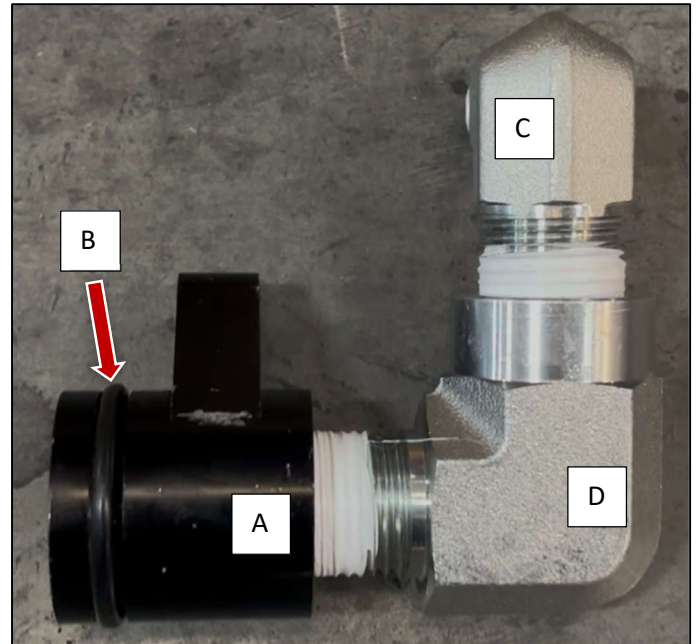
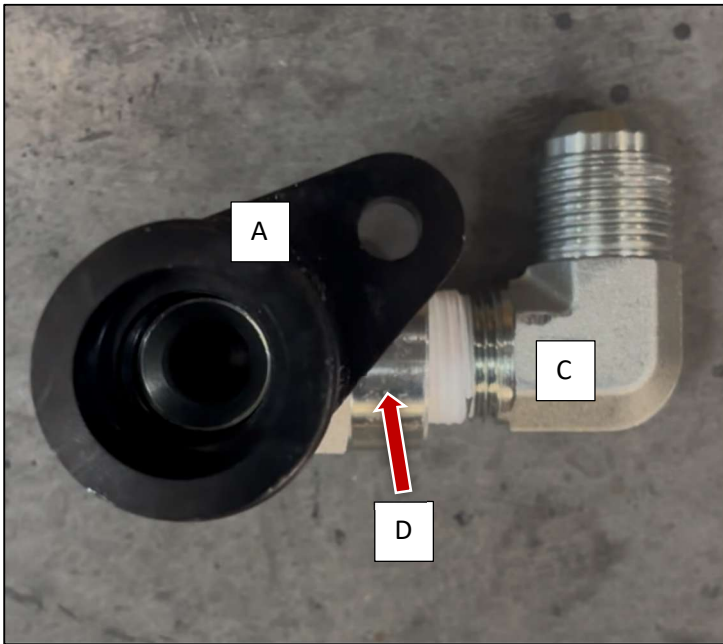


Step #3: Clamp the stock coolant tank vent line to the port at the top of coolant tank **N** using the stock clamp. The other port at the top of the coolant tank will be plugged (see picture below).

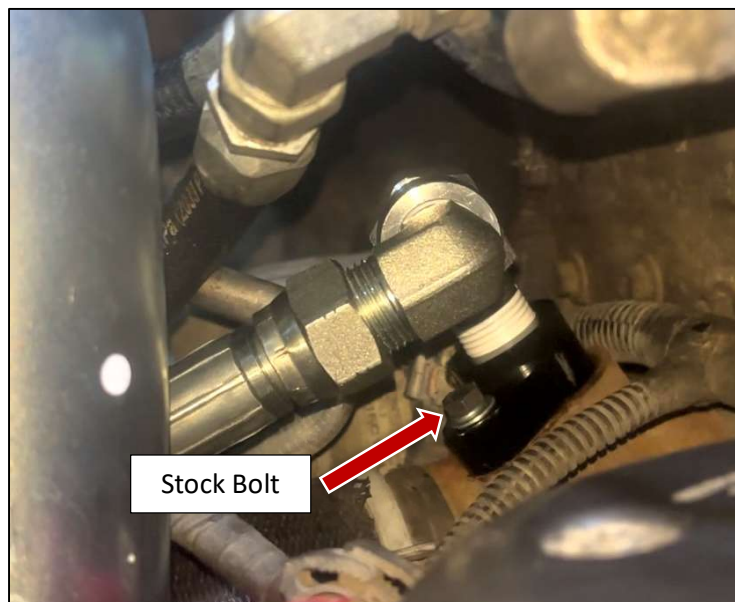


Water Line Connection Fitting Installation:

Step #3: Assemble and align water line connection fitting **A**, male-male elbow fitting **C**, and male-female fitting **D** in the shape of the two images below. Be sure to include pipe thread tape to the threaded parts and secure them together tightly to ensure there are no leaks. Check that O-ring **B** is attached to water line connection fitting **A** before proceeding to the next step.

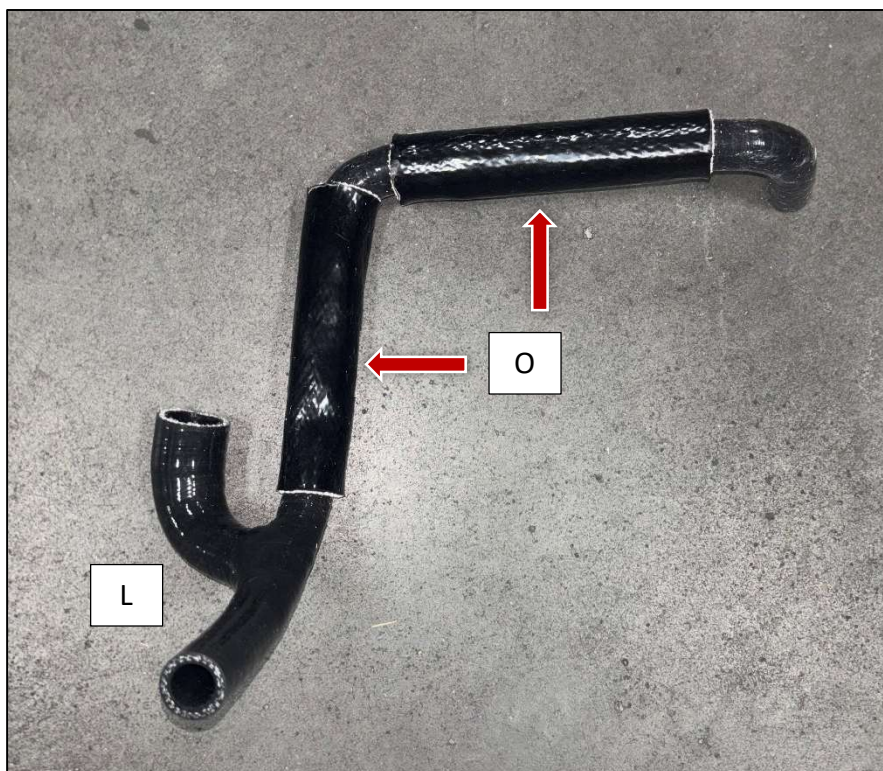


Step #4: Once the fittings are tightened and aligned like the pictures above, push the water line connection fitting **A** into the coolant riser housing location on the block and use the stock bolt to tighten the fitting to the truck.



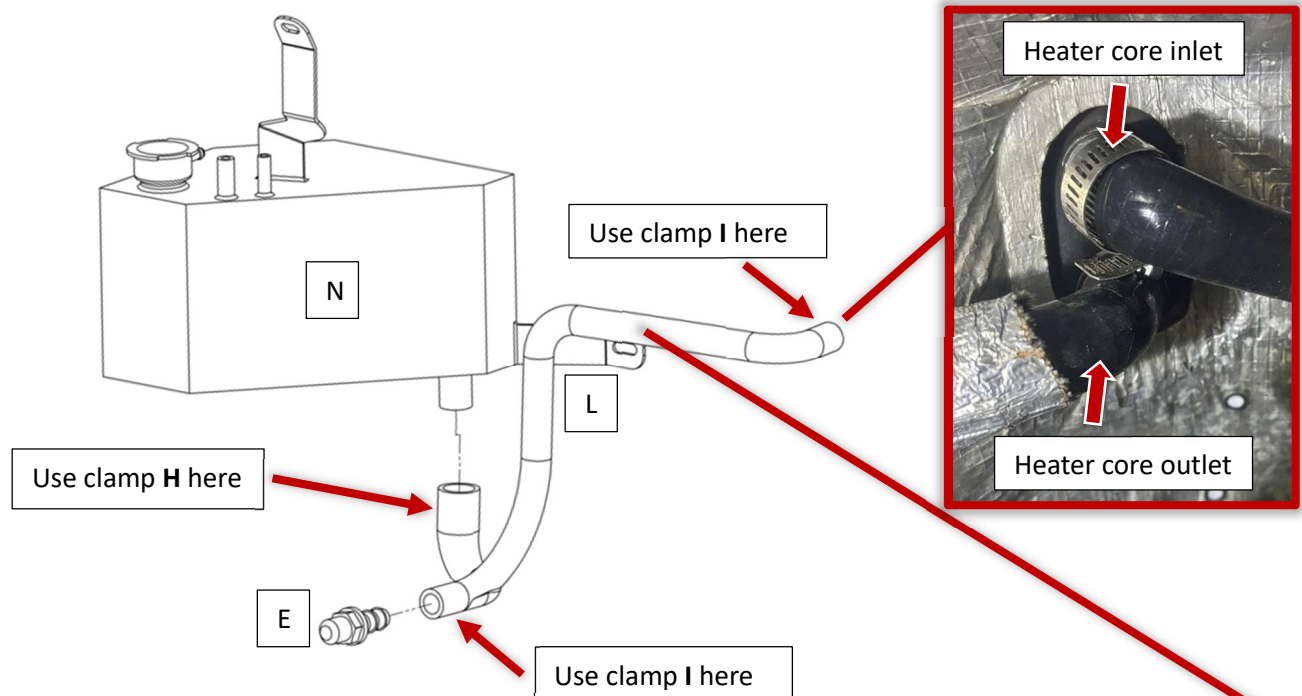
Heater Core Outlet Hose Insulation Sleeve:

Step #5: Slide both sections of 6" insulation sleeve **O** around heater core outlet hose **L** in the locations shown in the image below.

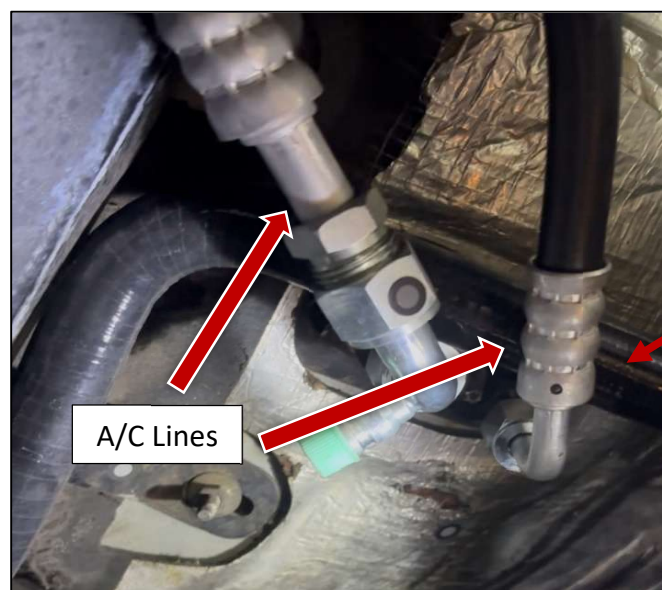


Heater Core Outlet Hose Installation:

Step #6: Install heater core outlet hose **L** according to the image below. The long top section of hose will be clamped onto the heater core outlet port located on the firewall with small clamp **I**, the short section of hose that comes out to the side will clamp onto the bottom of coolant tank **N** with large clamp **H**. The bottom section of hose will clamp onto straight barb fitting **E** with small clamp **I**. Tighten all clamps, ensuring there are no leaks.

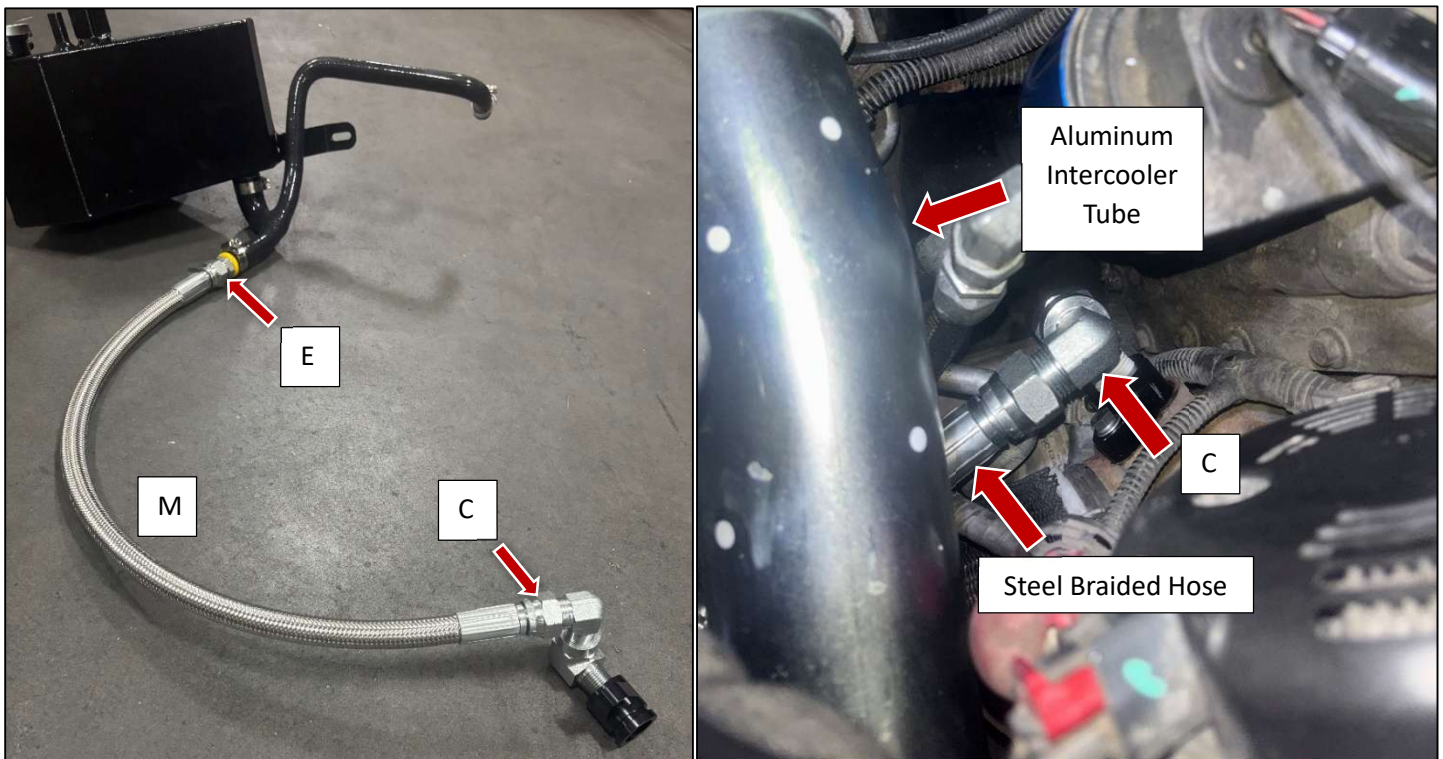


The image below shows how the long top section of hose should be routed between the A/C Lines and the firewall. Be sure that the hose is not touching the A/C lines.



Steel Braided Hose Installation:

Step #7: Connect steel braided hose **M** to male-male elbow fitting **C** on one side and on the other side connect the steel hose to straight barb fitting **E**. The steel braided hose should be routed under the intercooler tube, and rest under the trucks' battery box without being in the way of any piping. Adjust it so that it won't rub on anything it could damage. Once it is in the optimal position, tighten fittings **C** and **E** ensuring that they will not leak. The image below on the left shows how the steel braided hose should look when installed on the truck. On the right the image shows how the steel braided hose fits under the intercooler tube.



Upper Coolant Riser Kit Installation:

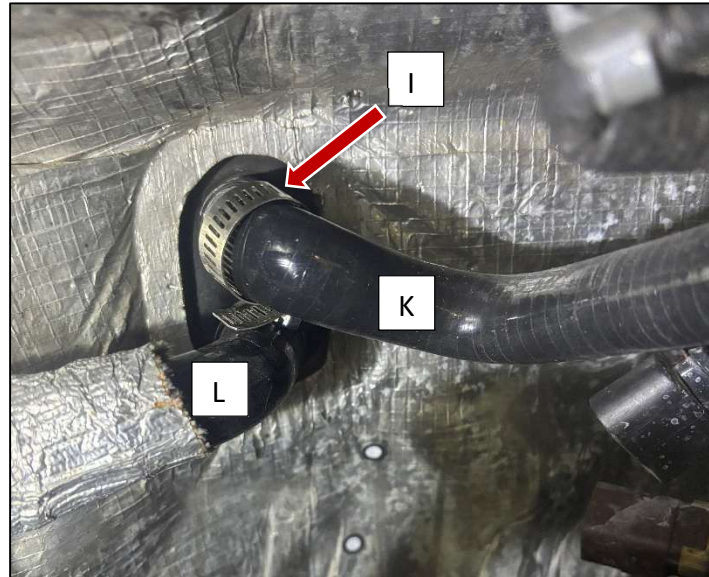
Step #8: Before Installation, connect heater core inlet hose **L** to elbow barb fitting **G**. Use small clamp **I** to attach them tightly together. Make sure that it looks like the picture below for easy installation with the bend going to the left.



Step #9: Fasten male-male straight fitting **F** into the coolant port on the block above the exhaust manifold between cylinders 4 and 5. Use pipe thread tape on the threads to ensure a proper seal.



Step #10: Clamp heater core inlet hose **K** onto the heater core inlet port located on the fire wall using small clamp **I**. See image below for reference.



Step #11: Now that the heater core inlet hose **K** is installed. Connect elbow barb fitting **G** to male-male straight fitting **F**. Tighten the two fittings together and make sure that the hose isn't touching anything to avoid damage. See image below for reference.

