INSTALLATION INSTRUCTIONS

SUBJECT: COOLANT TANK ASSEMBLY FOR 2013-2018 RAM CUMMINS

FITMENT: 2013-2018 RAM 2500/3500 with 6.7L Cummins
KIT P/N: FPE-CUMM-CLNT-TNK-1318

ESTIMATED INSTALL TIME: 2 hours

TOOLS REQUIRED: Flathead screwdriver, diagonal cutters, pliers, 8mm socket or wrench, 10mm socket or wrench, 11mm socket or wrench, 12mm socket or wrench, 13mm socket or wrench, adjustable wrench.

KIT CONTENTS:

Item #	Description	QTY
1	Coolant tank	1
2	Coolant level sensor	1
3	3/8” hose (24” cut length)	1
4	3/8” hose (12” cut length)	1
5	SAE size 20 hose clamp	1
6	Teflon thread sealant	1
7	9mm x 1/8” NPT barbed fitting	1
8	M6 x 1 locknut	1
9	SAE size 8 hose clamp	3
10	M6 x 1 x 16mm screw	1

WARNINGS:

- Use of this product may void or nullify the vehicle’s factory warranty.
- User assumes sole responsibility for the safe & proper use of the vehicle at all times.
- The purchaser and end user releases, indemnifies, discharges, and holds harmless Fleece Performance Engineering, Inc. from any and all claims, damages, causes of action, injuries, or expenses resulting from or relating to the use or installation of this product that is in violation of the terms and conditions on this page, the product disclaimer, and/or the product installation instructions. Fleece Performance Engineering, Inc. will not be liable for any direct, indirect, consequential, exemplary, punitive, statutory, or incidental damages or fines cause by the use or installation of this product.

PROCEDURE:

STEP 1: Disconnect the battery terminals.

STEP 2: Drain the coolant into a clean bucket or pail.

STEP 3: Disconnect the mass airflow sensor (MAF) and the barometric pressure sensor. Loosen the hose clamps retaining the intake tube to the upper airbox assembly and the turbocharger.

STEP 4: Loosen the hose clamp retaining the crankcase ventilation (CCV) tube to the intake tube. Disconnect the CCV tube. Remove the intake tube from the vehicle and set aside.

STEP 5: Remove the one bolt retaining the airbox assembly to the passenger side fender using a 13mm socket or wrench. Disconnect the active air connector on the lower driver's side of the airbox. Remove the airbox from the vehicle and set aside.

STEP 6: Remove the passenger side fender liner. Using an 8mm socket or wrench and a trim tool, remove the eight screws and three plastic pop rivets retaining the fender liner.

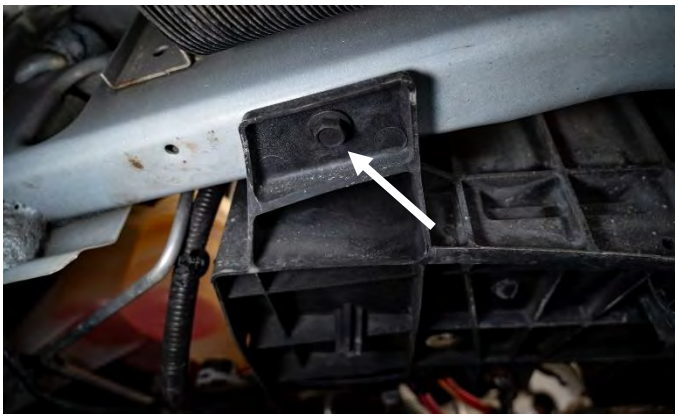
STEP 7: Disconnect the wires from the solenoid on the passenger side battery tray. Using a 12mm socket or wrench, remove the two nuts retaining the wire terminals. Disconnect the terminals from the solenoid.

STEP 8: Using a 10mm socket or wrench, remove the bolt retaining the battery hold down clamp. Remove the passenger side battery. Using a trim tool, remove the fir trees retaining the solenoid harness to the battery tray.

STEP 9: Using a 13mm socket or wrench, remove the six bolts retaining the battery tray to the fender. There are two bolts located on the top flange of the battery tray and two bolts on the passenger-facing side of the tray.

The final two bolts are located on the underside of the battery tray. See the images at right.

Once all bolts are removed, remove the battery tray from the vehicle.



STEP 10 (optional): Using a 12mm socket or wrench, remove the nut connecting the main power cable to the battery bus bar. Set the bus bar and harness aside.

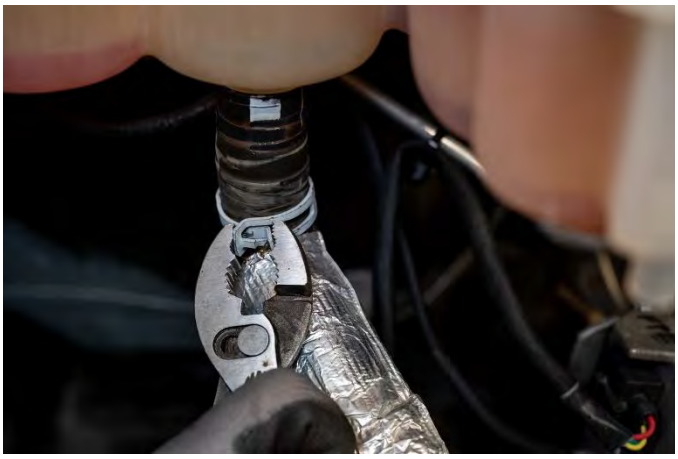
NOTE: Removing the bus bar allows for more space to remove the hoses in the upcoming steps. Removal of the bus bar is optional, and the remaining steps can be completed if the bus bar is left in place.

STEP 11: Locate the hose routed from the top of the coolant riser pipe. Remove the hose clamp from the fitting and disconnect the hose from the coolant riser shown at right.

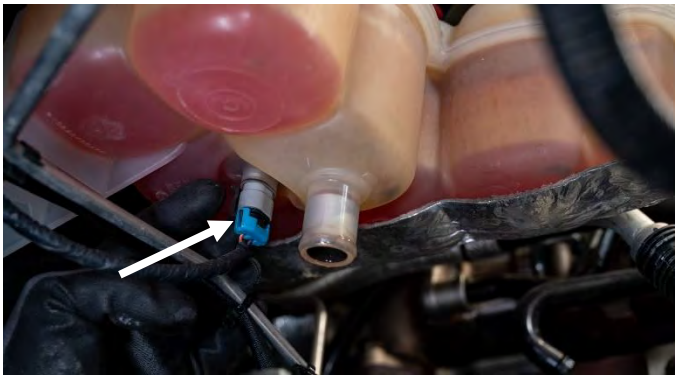
STEP 12: Locate the coolant de-gas hose on the top side of the OE coolant tank shown at right. Remove the hose clamp by prying the retainer away from the clamp. Disconnect the hose from the coolant tank.

NOTE: Removal of the clamp is best achieved by using a small flathead screwdriver and twisting the head of the screwdriver between the two layers of the clamp as shown at right.

STEP 13: Using pliers, loosen the hose clamp retaining the coolant hose to the underside of the OE coolant tank. Disconnect the hose.

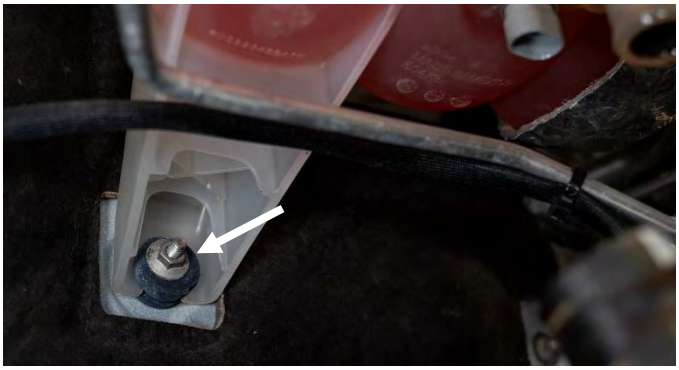


STEP 14: Disconnect the coolant level sensor on the underside of the OE coolant tank.



STEP 15: Remove the three nuts retaining the OE coolant tank to the firewall using a 10mm socket or wrench. Two nuts will be located on the upper side of the tank, and one will be on the underside. See images at right.

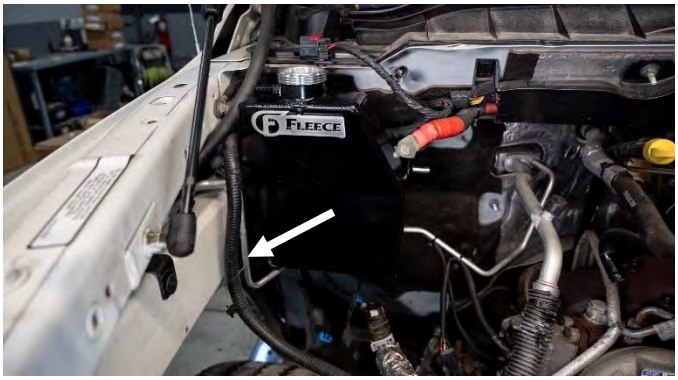
Once all three nuts are removed, remove the OE coolant tank.



STEP 16: Using the included thread sealant, place a thin layer on the threads of the barbed NPT fitting. Install the fitting into the overflow port on the new Fleece Performance coolant tank using an 11mm socket or wrench.

STEP 17: Place a thin bead of thread sealant around the included coolant level sensor. Install the sensor into the threaded port on the underside of the Fleece Performance coolant tank using a 1-1/2” wrench.

STEP 18: Install the new Fleece Performance coolant tank into the vehicle. Using a 10mm socket or wrench, install the included bolt into the mounting hole located on the lower front side of the coolant tank. Torque the bolt to 10 ft-lb.



Ensure that the lower mounting bracket installs onto the OE lower mounting stud. Using a 10mm socket or wrench, install the nut onto the lower mounting stud and torque to 10 ft-lb.

STEP 19: Place one of the included SAE size 8 hose clamps onto the OE coolant de-gas line and install the line onto the upward facing hose barb on the Fleece Performance coolant tank. Tighten the hose clamp.

STEP 20: Place a hose clamp (SAE size 8) on one end of the included 3/8” hose (24” cut length) and install the hose onto the barb on top of the coolant riser pipe. Tighten the hose clamp.

Place another hose clamp (SAE size 8) onto the other end of the hose and install the hose onto the driver’s side facing hose barb on the Fleece Performance coolant tank. Tighten the hose clamp.

STEP 21: Install the included coolant overflow hose (12” cut length) onto the Fleece Performance coolant tank. Route the hose into the fender as shown at right.

STEP 22: Place the included hose clamp (SAE size 20) onto the lower coolant hose and connect hose to the underside of the coolant tank. Tighten the hose clamp. Connect the coolant level sensor to the truck-side harness.

NOTE: The coolant level sensor harness should be restrained using a zip tie.

STEP 23: Reinstall the passenger side battery tray. Using a 13mm socket or wrench, install the six bolts to retain the battery tray. If the battery bus bar was removed in your installation, use a 12mm socket or wrench to connect the bus bar to the main power cable.

STEP 24: Reinstall the harness fir trees onto the battery tray and connect the wires to the solenoid using a 12mm socket or wrench.

STEP 25: Install the battery into the tray. Using a 10mm socket or wrench, install the battery hold down clamp.

STEP 26: Reinstall the fender liner. Install the eight 8mm screws and the three plastic pop rivets.

STEP 27: Connect the active air connector to the lower driver's side of the airbox and install the airbox into the vehicle. Using a 13mm socket or wrench, install the airbox retaining bolt. Connect the MAF and barometric pressure sensors.

STEP 28: Install the intake tube onto the turbocharger and the airbox. Connect the CCV tube to the intake tube. Tighten the hose clamps.

STEP 29: Refill the vehicle with coolant and install the OE coolant tank cap onto the Fleece Performance coolant tank.

STEP 30: Connect the battery terminals.

STEP 31: Start the vehicle and check for leaks. Add coolant as necessary.