

INSTALLATION INSTRUCTIONS

SUBJECT: Heater Core Replacement Hose and Fitting for 2003-2024 RAM

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FITMENT: 2003-2024 5.9L and 6.7L Cummins Equipped Dodge Ram 2500/3500 Pickup Trucks

KIT P/N: FPE-CUMM-HCL-0324

EST INSTALL TIME: 1 Hour

TOOLS REQUIRED: Pliers, 1/4" hex drive or socket, 7/8" deep well socket or wrench, 10MM socket, 13MM socket

KIT CONTENTS:

Item #	Description	QTY
1	Heater core hose	1
2	Heater core hose riser adapter	1
3	Hose clamp	2
4	Thread sealant	1

PART CROSS-REFERENCE:

FPE P/N	Replaces the following part numbers:
FPE-CUMM-HCL-0324	Gates 18774, Gates 19168, Gates 23957, Mopar 52014739AG, Mopar 55056711AC, Mopar 55056966AA



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.

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STEP 1: Park the vehicle on a level surface, then disconnect each of the negative battery terminals. Model Years 2003-2012 will require a 13MM socket or wrench. Model Years 2013-2024 will require a 10MM socket or wrench.



Figure 1: Use of shop towel to isolate negative terminal.

STEP 2: Drain the coolant from the cooling system.

Allow the engine to cool completely before moving forward with the rest of this installation.

Relieve pressure from the cooling system by placing a shop rag over the top of the cooling reservoir cap or radiator cap if the truck is not equipped with a pressurized reservoir, then slowly twist the cap counterclockwise. The shop rag will provide a layer of protection from any remaining heat or steam that may escape from the radiator during this process.



Figure 2A: Coolant overflow cap.



Figure 2B: Radiator cap.

Once the cap is fully removed, locate the coolant drain on the bottom of the radiator. Turn the knob counterclockwise (*circled in Figure 3*) and allow for the coolant to drain into a clean bucket or pail.



Figure 3A: Radiator coolant drain turned to the open position, model years 2013-2024.



Figure 3B: Radiator coolant drain, model years 2003-2012.

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STEP 3: Locate the upper heater core supply hose in the engine bay located on the (left) passenger side of the engine valve cover. Loosen and remove the hose clamp from the upper heater core hose at the firewall heater core connection.



Figure 4: Heater hose clamp at firewall.

STEP 4: Disconnect the stock upper heater core hose.

Disconnect the upper heater core hose from the quick disconnect fitting on the passenger side of the cylinder head by compressing the hose retainers and lifting up on the connection. If necessary, use a flat head screwdriver to pry the hose adapter from the fitting. Remove the upper heater core hose from the engine bay.



Figure 5: Heater hose disconnected from OE adapter fitting.

QUICK REFERENCE

The OE quick disconnect fitting and the Fleece Performance riser fitting both contain a flow control orifice to manage overall coolant flow to the heater core.



TOP VIEW



BOTTOM VIEW

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STEP 6: Apply thread sealant in a single bead around the lowest thread of the new heater core hose riser fitting.



Figure 6: Application of thread sealant on heater core hose riser fitting.

STEP 7: Using a 7/8" deep well socket, install the new Fleece Performance riser fitting into the cylinder head port where the OE fitting was removed.



Figure 7: Installation of heater core hose riser fitting.

STEP 8: Install the new Fleece Performance heater core supply hose.

Connect it to the upper heater core port at the firewall and the new riser fitting installed on the cylinder head. Use the supplied hose clamps to secure both ends of the hose and tighten them with a 1/4" socket or flat head screwdriver.



Figure 8A: Installation of supplied hose clamp at cylinder head.

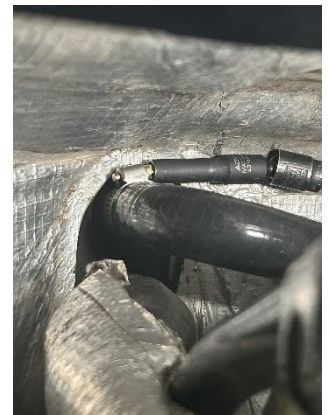


Figure 8B: Installation of supplied hose clamp at firewall.

STEP 9: Turn the radiator petcock clockwise to the closed position then re-fill the coolant system.

Re-use or replace coolant as necessary to properly fill the system with clean fluid. Ensure the cooling reservoir is at the correct level then reinstall the cooling reservoir cap or radiator cap.



Figure 9A: Coolant drain turned to close position.



Figure 9B: Radiator petcock circled.

STEP 10: Re-connect each negative battery terminal.

STEP 11: Start the truck and allow the engine to idle. Bring the engine to normal operating temperature and confirm that no leaks are present. Inspect all fittings and lines. Check the cooling reservoir once more and top off as needed.



Figure 10: Reconnect negative battery terminals.