

INSTALLATION INSTRUCTIONS

SUBJECT: Heater Feed and Return Hose Kit for 2003-2012 Cummins

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FITMENT: 2003-2012 5.9L and 6.7L Cummins Equipped Dodge Ram 2500/3500 Pickup Trucks

KIT P/N: FPE-CUMM-HCL-KIT-0312

EST INSTALL TIME: 1 Hour

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

KIT CONTENTS:

Item #	Description	QTY
1	Upper heater core hose (supply)	1
2	Lower heater core hose (return)	1
3	Upper heater core hose riser adapter	1
4	Hose clamp	4
5	Thread sealant	1



PART CROSS-REFERENCE:

FPE P/N	Replaces the following part numbers:
FPE-CUMM-HCL-KIT-0312	Mopar 68186700AA, Mopar 55056673AC, Mopar 55056965AA, Gates 19168, Gates 18774, Mopar 55056711AC, Mopar 55056966AA, Gates 23957

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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PROCEDURE:

STEP 1: Park the vehicle on a level surface, then using a 13MM socket or wrench disconnect each of the negative battery terminals.



Figure 1: Negative battery terminal disconnected and isolated.

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 radiator cap, 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: Radiator cap.



Figure 2B: Coolant overflow bottle.

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



Figure 3: Radiator petcock circled.

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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. Remove the hose clamp from the upper heater core hose at the firewall heater core connection.



Figure 4: Upper heater core supply hose, hose clamp highlighted with arrow.

STEP 4: Disconnect the stock upper heater core hose.

Disconnect the heater core hose from the quick disconnect fitting on the passenger side of the cylinder head. Compress the hose locking tabs 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: Stock heater core hose and 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

STEP 6: Locate the lower heater core return hose in the engine bay located on the (left) passenger side of the engine on the top of the coolant standpipe.



Figure 6: Stock lower heater core return hose. Arrows highlighting each clamp.

STEP 7: Disconnect the lower heater core hose from the coolant standpipe and the firewall.



Figure 7: Removal of lower heater core return hose.

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

Install the included hose clamps onto the hose. Connect the hose to the lower heater core port on the firewall and the coolant standpipe. Tighten the hose clamps using a ¼" socket or flathead screwdriver.



Figure 8: New Fleece heater core line installed, included hose clamps installed.

STEP 9: Apply thread sealant in a single bead around the lowest thread of the new heater core hose riser fitting.

NOTE: The included Permatex thread sealant requires up to 24 hours to cure. Please allow for appropriate time for the sealant to fully cure. If a more immediate application is required, Teflon tape can be used instead of the provided Permatex sealant.



Figure 9: New Fleece heater core line installed, included hose clamp installed.

STEP 10: 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 10: New Fleece heater core line installed, included hose clamp installed.

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STEP 11: 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 11: New Fleece heater core line installed, included hose clamp installed.

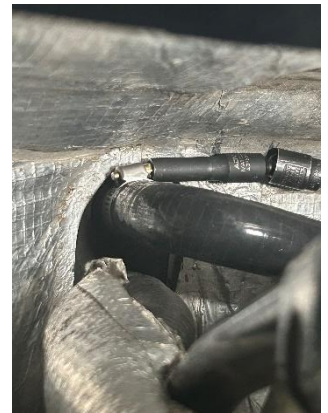


Figure 12: New Fleece heater core line installed, included hose clamp installed.

STEP 12: 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. Reinstall the radiator cap and ensure the cooling reservoir is at the correct level.



Figure 13: Radiator petcock circled.

STEP 13: Re-connect each negative battery terminal.

STEP 14: 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 14: Negative battery terminal reinstalled.