

## INSTALLATION INSTRUCTIONS

### SUBJECT: Heater Feed and Return Hose Kit for 2013-2024 Cummins

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August, 2026  
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**FITMENT:** 2013-2024 6.7L Cummins Equipped Dodge Ram 2500/3500 Pickup Trucks

**KIT P/N:** FPE-CUMM-HCL-KIT-1324

**EST INSTALL TIME:** 1 Hour

**TOOLS REQUIRED:** Pliers, 1/4" hex drive or socket, 7/8" deep well socket or wrench, 10MM socket, 3/8" allen key

#### 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-1324 | Mopar 68297774AA, Mopar 68213155AD, Mopar 68322483AA, Mopar 52014739AG, 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 10MM socket or wrench, disconnect each of the negative battery terminals.



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

**STEP 2:** Drain the coolant from the cooling system.

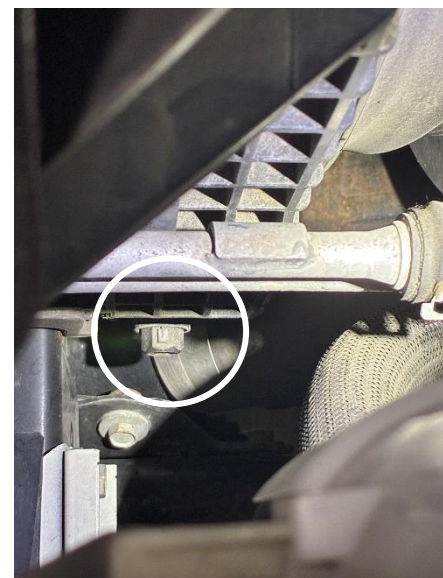
Allow the engine to cool completely before moving forward with the rest of this installation.

Relieve pressure from the cooling system by placing a shop rag over the top of the cooling reservoir cap, 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 2: Coolant overflow cap.*

Once the cap is fully removed, locate the coolant drain on the bottom of the radiator. Using a 3/8" Allen key, turn the knob counterclockwise (*circled in Figure 3*) and allow for the coolant to drain into a clean bucket or pail.



*Figure 3: Radiator coolant drain turned to the open position.*

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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 (*circled in Figure 4*).



Figure 4: Heater hose clamp at firewall.

**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.

**STEP 5:** Using a 7/8" deep well socket, loosen and remove the OE adapter fitting from the cylinder head.



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 5:** Locate the lower heater core return hose on the passenger side of the coolant riser. **Using pliers, remove the clamp from the hose. Disconnect the hose.**

**STEP 6:** Trace the heater core return hose back toward the firewall. **Using pliers, remove the hose clamp and remove the hose from the lower heater core port.**

**STEP 7:** Install the included hose clamps onto the new Fleece Performance lower heater core return hose.

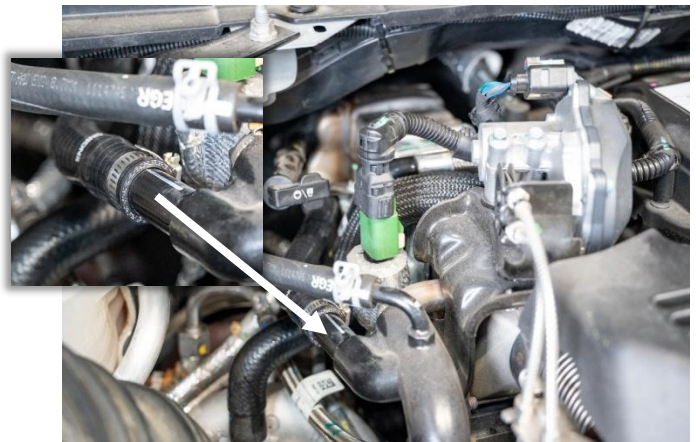
Connect the hose to the lower heater core port on the firewall and the coolant standpipe. Tighten the hose clamps using a  $\frac{1}{4}$ " socket or flathead screwdriver.



*Figure 6: Heater core return hose, clamp circled at standpipe.*



*Figure 7: Installation of New Fleece Performance lower heater hose.*



*Figure 8: Included clamp installed at coolant standpipe.*

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**STEP 8:** Apply thread sealant 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: Application of thread sealant on heater core hose riser fitting.*

**STEP 9:** 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: Installation of heater core hose riser fitting.*

**STEP 10:** 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 11A: Installation of supplied hose clamp at cylinder head.*

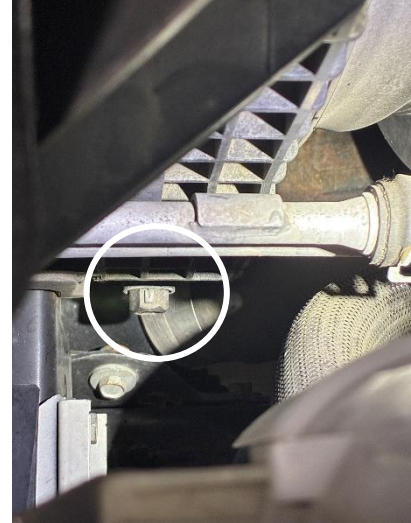


*Figure 11B: Installation of supplied hose clamp at firewall.*



**STEP 11:** Using a 3/8" Allen key, turn the radiator petcock clockwise to the closed position then re-fill the coolant system.

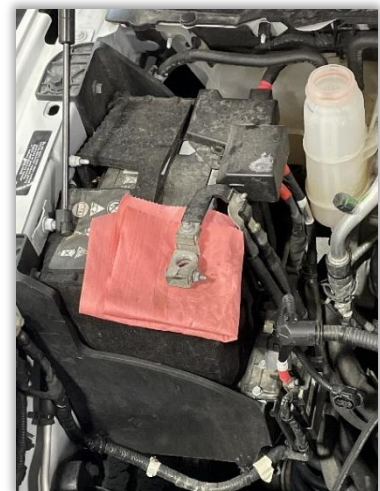
Re-use or replace coolant as necessary to properly fill the system with clean fluid. Ensure the cooling reservoir is at the correct level then reinstall the cooling reservoir cap.



*Figure 12: Coolant drain turned to close position.*

**STEP 12:** Re-connect each negative battery terminal.

**STEP 13:** 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 13: Reconnect negative battery terminals.*