

DD 13/15/16 HT2 Heater Return Line Replacement

83-131

FLA COE
FLB COE
FLD Conventional
Business Class

FLC 112 Conventional
> Century Class Conventional
Argosy COE
Cargo

> Columbia
Coronado
Business Class M2
> Cascadia

Freightliner
Service Bulletin

Description of Revisions: *This bulletin replaces the version dated February 2010. The pipe assembly has been redesigned and a new part number assigned. Figure 1 has been revised to show the new pipe. Also, DD15/16 installation information has been included.*

General Information

In the event that the heater return pipe (HT2 line) fails on an EPA07 HDEP engine, replace the line with a new assembly that connects to the manifold with a hose and hose barb. See [Table 1](#) under "Parts" for a list of the original parts and required replacement parts.

Refer to [Fig. 1](#) for DD13 installations, or [Fig. 2](#) for DD15/16 installations for this procedure.

Installation

1. Shut down the engine and chock the tires.

WARNING

Do not remove or loosen the radiator cap until the engine and cooling system have completely cooled. Use extreme care when removing the cap. A sudden release of pressure from removing the cap prior to the system cooling can result in a surge of scalding coolant that could cause serious personal injury.

2. Allow the engine time to cool before opening the cooling system.
3. Drain the cooling system enough to empty the HT2 line.
4. Remove the HT2 line and hose.
5. Remove the threaded fitting for the EPA07 HT2 line from the heater return manifold, or shutoff valve if used.
6. Install the new hose barb in the heater return manifold or shutoff valve.
7. Install the formed hose on the left side of the engine.
8. Install the new EPA10 HT2 line on the engine. Tighten the HT2 line fasteners 11 to 15 lbf·ft (15 to 20 N·m).

NOTE: The HT2 line may come with a short formed hose attached to the return manifold end. This hose will only fit a 113 BBC day cab truck. All other applications require a length of bulk heater hose cut to fit.

9. Cut a length of 1-inch bulk heater hose to fit between the HT2 line and the heater return manifold without kinking or stretching.
10. Using the new hose clamps, install the heater hose between the HT2 line and the heater return manifold.
11. Fill the cooling system.

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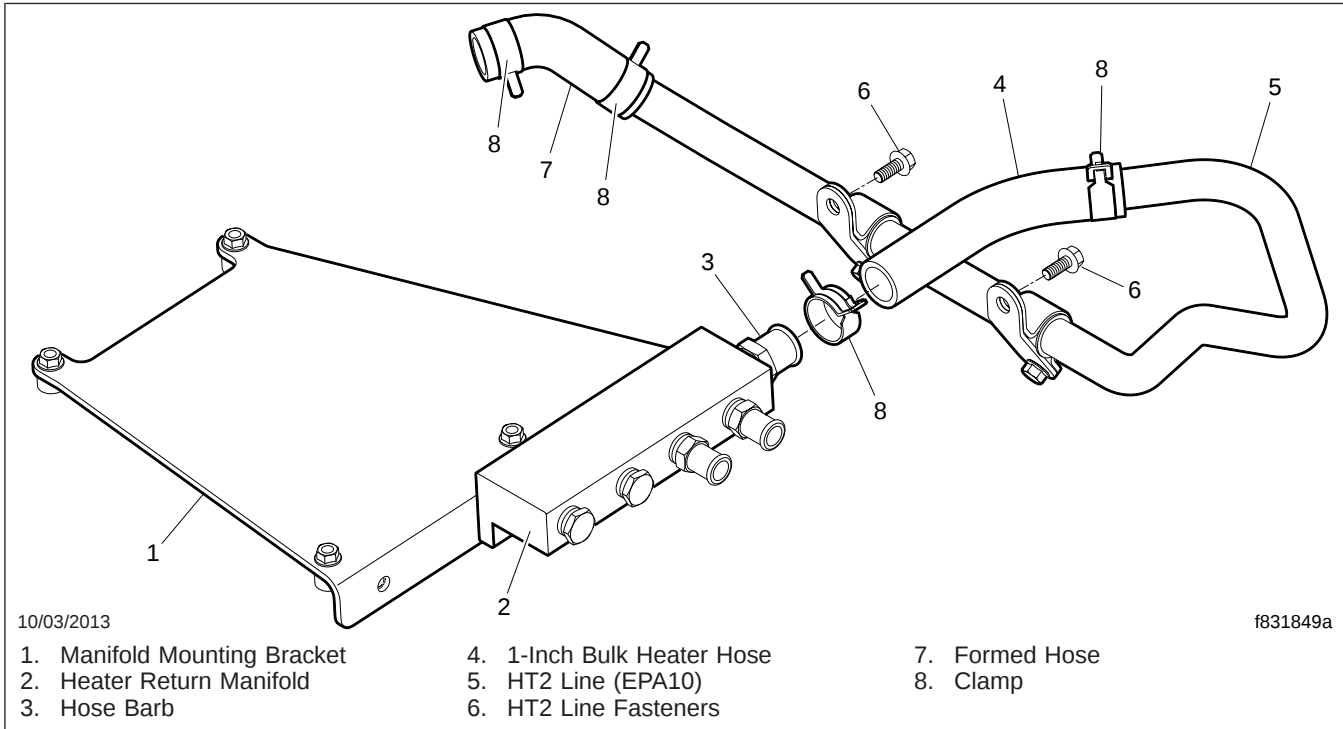


Fig. 1, EPA10 HT2 Line Installation (DD13)

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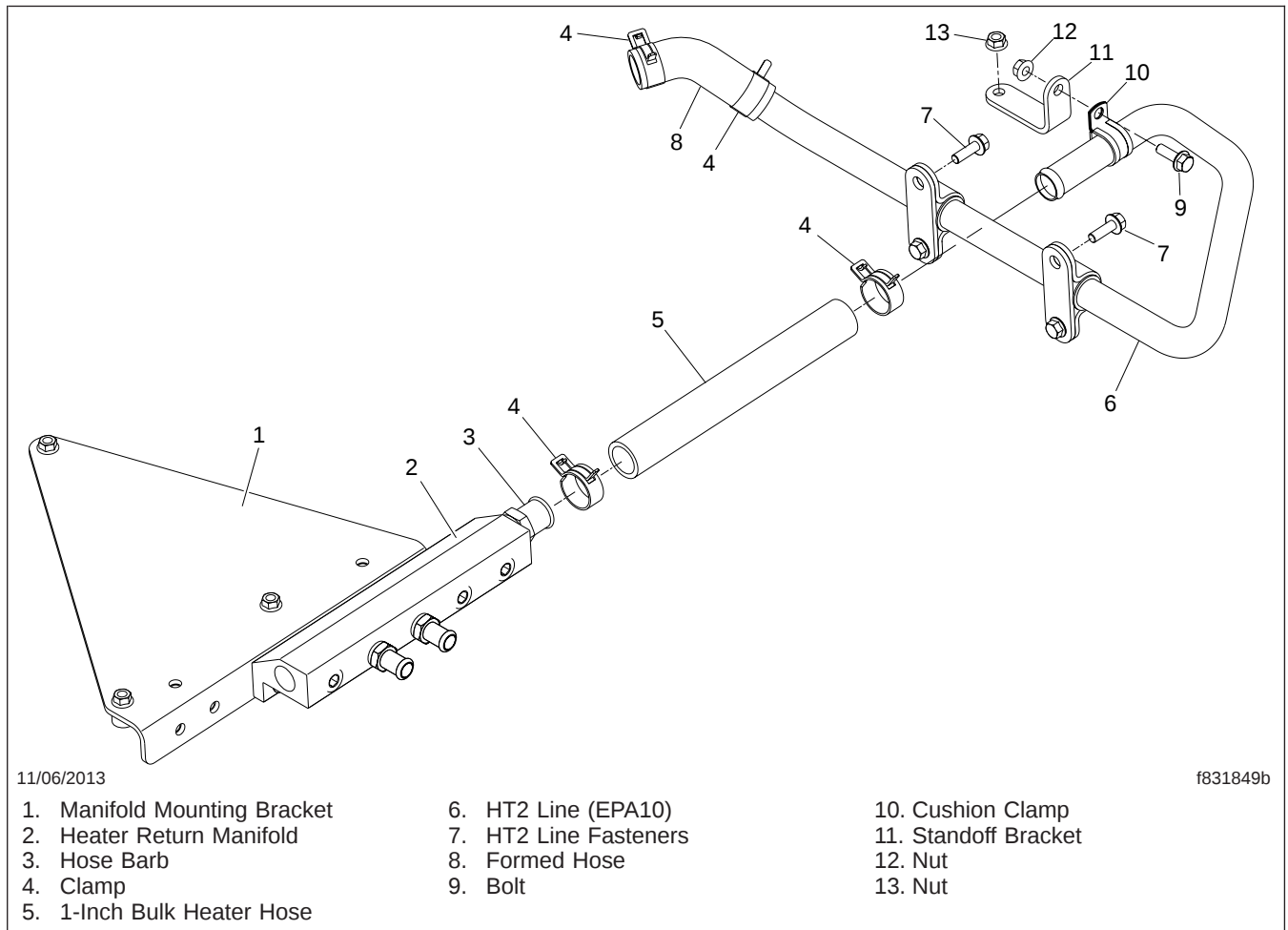


Fig. 2, EPA10 HT2 Line Installation (DD15/16)

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Parts are available through the PDC.

Heater Return Line Replacement Parts, EPA07 Engines				
Description	Part Number		Quantity	Installation Drawing Number
	Original	Replacement		
Pipe Assembly, Heater Return, DD13	A05-28321-000/1/2/3 A05-28520-000	A05-31162-000	1	D22-67271
Pipe Assembly, Heater Return, DD15/16	A05-28775-000/003 A05-28775-200/203	A05-31163-000	1	D22-72309
Clamp	N/A	23-12691-002	4	Both
Hose Barb	N/A	PH 68HB 16 12	1	Both
Hose, Heater Return, Formed, HDEP	N/A	05-27754-000	1	Both

Table 1, Heater Return Line Replacement Parts, EPA07 Engines

Warranty

This bulletin is informational only. Warranty does not apply.