

Low Cab Heat on Vehicles Equipped With Caterpillar Engines

20-7

Recreational Vehicle
> School Bus

Shuttle Bus
Walk-In Van

**Freightliner Custom Chassis
Service Bulletin**

Description of Revision: *This bulletin replaces the version dated January 2004. The part number for the heater return pipe has been changed.*

General Information

From August 1, 2001 through December 1, 2003, the heater hose plumbing on School Bus chassis' equipped with a Caterpillar engine was changed and routed to the lower radiator piping. Since that change, complaints were received concerning lower cab heat in cold temperatures. To address this issue, Freightliner Custom Chassis has started to change back to the original plumbing as policy on units that are under warranty.

For complaints received of low cab heat on vehicles built from August 1, 2001 through December 1, 2003, use the instructions below to retrofit the original heater hose plumbing.

Removal

1. Set the parking brake, chock the tires, and open the hood.
2. Drain the coolant from the radiator.
3. Remove the heater return tube.
4. Remove the hose from the bottom of the surge tank.
5. Remove the plug on top of the water pump housing and install a 90-degree elbow fitting (part number PH 2502 12 12) and a 45-degree elbow fitting (part number 23-12386-016). See [Fig. 1](#).

Installation

1. Install 4-1/2 feet (1.372 m) of 1 inch (25 mm) heater hose to the bottom of the surge tank and connect it to the water pump.
2. Install a new heater return pipe (part number 05-17001-000).
3. Fill the radiator with coolant.
4. Close the hood. Remove the chocks from the tires.

Warranty

Normal warranty applies. When submitting claims, reference this service bulletin by number in the story of the claim. Use the damage code and time guide information in [Table 1](#).

Damage Code	Operation Number	Description	Time (hours)
270-001A05647	270-5020A	Heater Hose Modification	2.0

Table 1, Time Guide Information

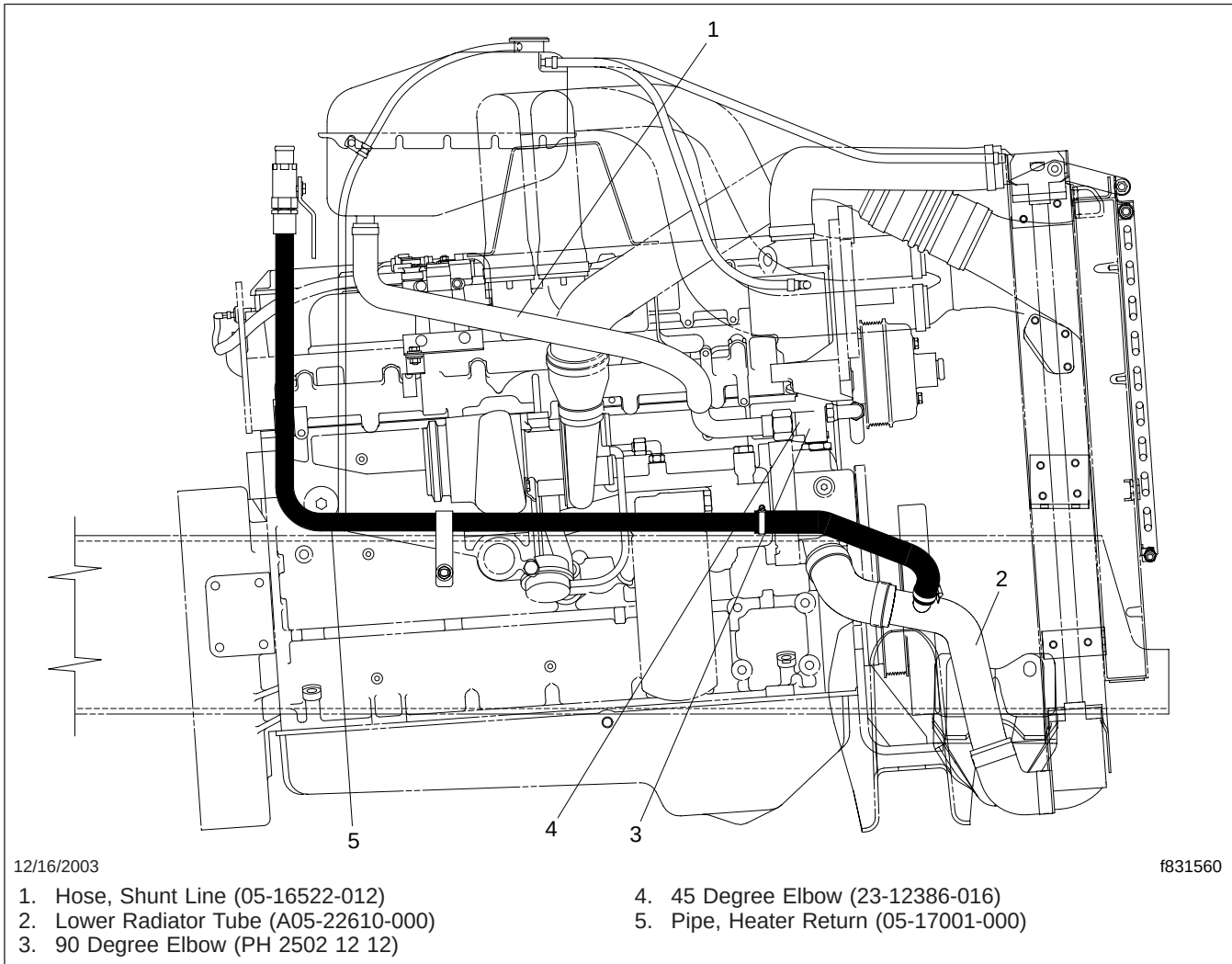


Fig. 1, Heater Hose Assembly Routing