FLA COE
FLB COE
FLD Conventional

> Business Class
FLC 112 Conventional
Century Class Conventional

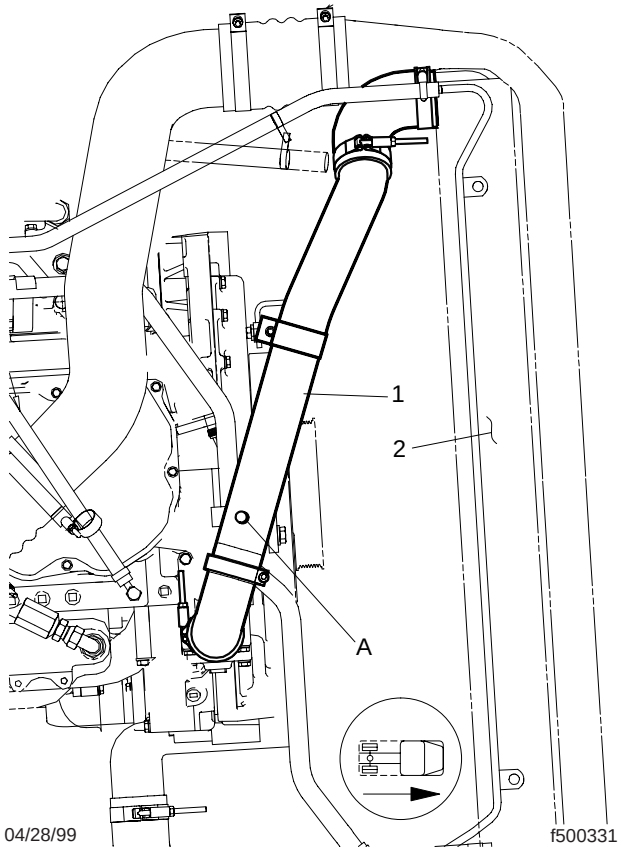
Argosy COE
Cargo

Freightliner Service Bulletin

Description of Revisions: *This service bulletin replaces the previous version dated May 1999. A measurement error is corrected.*

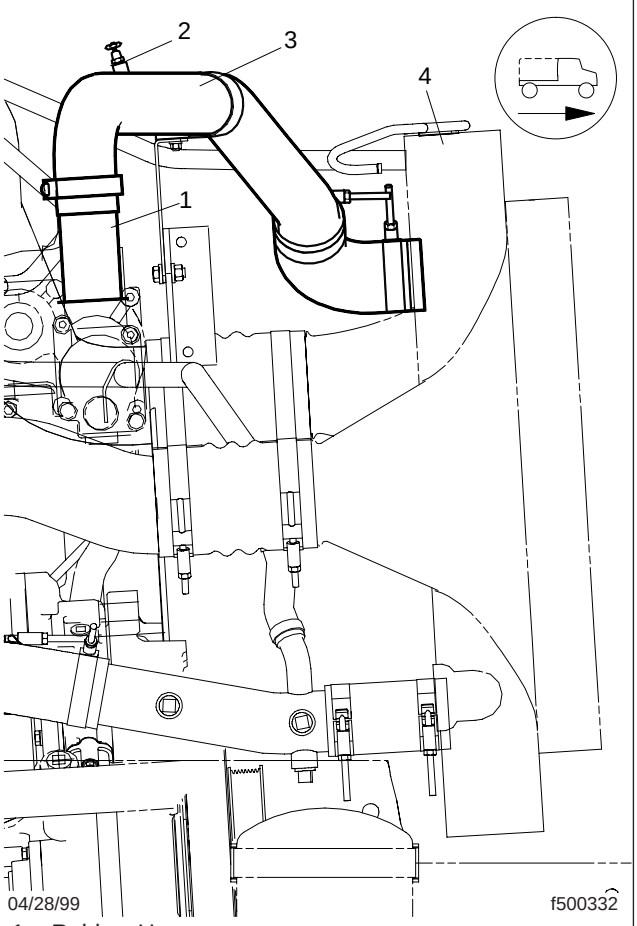
General Information

Business Class FL112 vehicles equipped with a Caterpillar C10 or C12 engine, and built before November 13, 1998, may have a problem with interference between the underside of the hood and the petcock valve on the upper radiator pipe. See **Fig. 1** and **Fig. 2**.



A. Interference with the hood is here, at the petcock.
1. Upper Radiator Pipe
2. Radiator

Fig. 1, Upper Radiator Pipe Location (top view)



1. Rubber Hose
2. Petcock Valve
3. Upper Radiator Pipe
4. Radiator

Fig. 2, Upper Radiator Pipe Location (side view)

This interference can result in a wear mark on the underside of the hood from the petcock contacting it. The problem may be caused by the upper radiator pipe not being fully seated, or an incorrectly adjusted hood.

Affected vehicles must be checked for correct clearance between the petcock on the upper radiator pipe and the underside of the hood. Use the procedure below to check the clearance.

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NOTE: Vehicles built after November 13, 1998, are equipped with a new-style upper radiator pipe that eliminates the problem.

Procedure

1. Park the vehicle on a level surface, shut down the engine, then chock the rear tires.
2. Tilt the hood.
3. Check the underside of the hood in the area where the petcock on the upper radiator pipe would contact it.
4. If there is evidence of wear on the underside of the hood, check the gap between the end of the upper radiator pipe and the thermostat housing.
   - 4.1 Loosen the clamp holding the rubber hose to the end of the radiator pipe. See **Fig. 2**.
   - 4.2 Push the radiator pipe down inside the hose until it contacts the thermostat housing.
   - 4.3 Pull up on the radiator pipe until there is a minimal gap (about 1/4-inch or 6 mm) between the end of the pipe and the thermostat housing. The pipe and the housing should not be touching.
   - 4.4 Tighten the clamp firmly.
5. Put a 3/4 inch (19 mm)-diameter ball of soft putty on top of the petcock. Then lower the hood and latch it.
6. Tilt the hood. Then, check the ball of putty.

   If the ball of putty is not deformed, go to the step for lowering the hood.

   If the ball of putty is deformed or flattened, the clearance is insufficient (less than 3/4-inch or 19 mm). Go to the next step to replace the upper radiator pipe with the new-style pipe. See **Table 1** for the part number.
7. Replace the existing upper radiator pipe with a new-style upper radiator pipe.

⚠ WARNING

Drain the coolant only when the coolant and engine are cool. Draining it when these are hot could cause severe personal injury due to scalding.

   - 7.1 Partially drain the radiator so the coolant level is below the upper radiator pipe.
   - 7.2 Remove the clamps from both ends of the radiator pipe.
   - 7.3 Mark, then remove any brackets or fasteners from the old radiator pipe.
   - 7.4 Remove the old radiator pipe.
   - 7.5 Install the new radiator pipe, making sure the end marked "Rad End" is connected to the radiator.
   - 7.6 Install any hardware that was removed from the old pipe onto the new pipe.
   - 7.7 Install the clamp at the radiator end of the pipe. Tighten it firmly.
   - 7.8 Adjust the other end of the new pipe so there is a minimum gap of 1/4-inch (6 mm) between the end of the pipe and the thermostat housing.
   - 7.9 Install the clamp holding the pipe end to the rubber hose. Tighten it firmly.
   - 7.10 Replace the coolant that was drained.
8. Start the engine and check for leaks. Shut down the engine. Tighten the connections as needed.

9. Lower the hood.
10. Remove the chocks from the tires.

Parts

See **Table 1** below for the required part. The part is available through the PDCs.

Part Number	Description
A05–18182–000	Upper Radiator Pipe

Table 1, Part Required

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 2**.

Damage Code	Operation Number	Description	Time (hours)
270–001251647	270–0020A	Hose, Radiator, Upper, R/R	0.6

Table 2, Damage Code and Repair Time Information