

FLA COE  
FLB COE  
FLD Conventional

> Business Class  
FLC 112 Conventional  
Century Class Conventional

Argosy COE  
Cargo

**Freightliner  
Service Bulletin**

## General Information

The wiring for the Corsair fan clutch on Business Class vehicles may not be compatible with the following electronic engines:

- Cummins ISC
- Cummins ISB
- Caterpillar CFE (3126)
- Detroit Diesel Series 50

Incorrect wiring may cause the fan to operate inconsistently, constantly, or not at all. Affected vehicles are those built from January 3, 1998 through November 5, 1998, and equipped with the listed engines. To remedy this problem, first check the A/C high-pressure switch, then the fan control wiring by following the procedure below. If needed, replace the A/C high-pressure switch and install an applicable adapter harness.

## Parts Required

See [Table 1](#) below for the correct adapter harness. Parts are available through the PDCs.

Parts Required	
Part Number	Description
A06-30172-000	Adapter Harness, Detroit Diesel Series 50 Engines
A06-30166-000	Adapter Harness, Cummins and Caterpillar Engines
A22-45194-001	High Pressure Switch, Fan Cycling (N/C)

**Table 1, Parts Required**

## Procedure

1. Chock the tires, then raise the hood.
2. Check the part number of the A/C high-pressure switch on top of the receiver-drier. If it is A22-45194-001, it is a normally-closed (N/C) switch, and the correct type.  
If the part number is A22-45194-000, the high pressure switch is a normally-open (N/O) type. This is incorrect. Replace it with an N/C switch before continuing.
3. Using a diagnostic reader, check the ECU programming for the fan control "on" voltage. For Caterpillar and Cummins engines, select 12V for "fan off." For a Detroit Diesel engine, select GND for "fan off."
4. Check the basic wiring for the fan control. See [Fig. 1](#), [Fig. 2](#), or [Fig. 3](#).
  - 4.1 Check that circuit 234 has either a fuse or a circuit breaker on the power distribution module (PDM). Install one if needed.
  - 4.2 Check that power is available at pin 13 of the 12-volt engine harness bulkhead connector.
  - 4.3 Check that circuit 149 has a ground at pin 2 of the electronic engine harness bulkhead connector. If the vehicle is equipped with a manual override switch, pin 2 will switch from ground to open when the switch is worked.
5. If the wiring is correct, nothing more needs to be done.

If the wiring is not correct, install the applicable adapter harness following the instructions below. See [Table 1](#) for the correct adapter harness.

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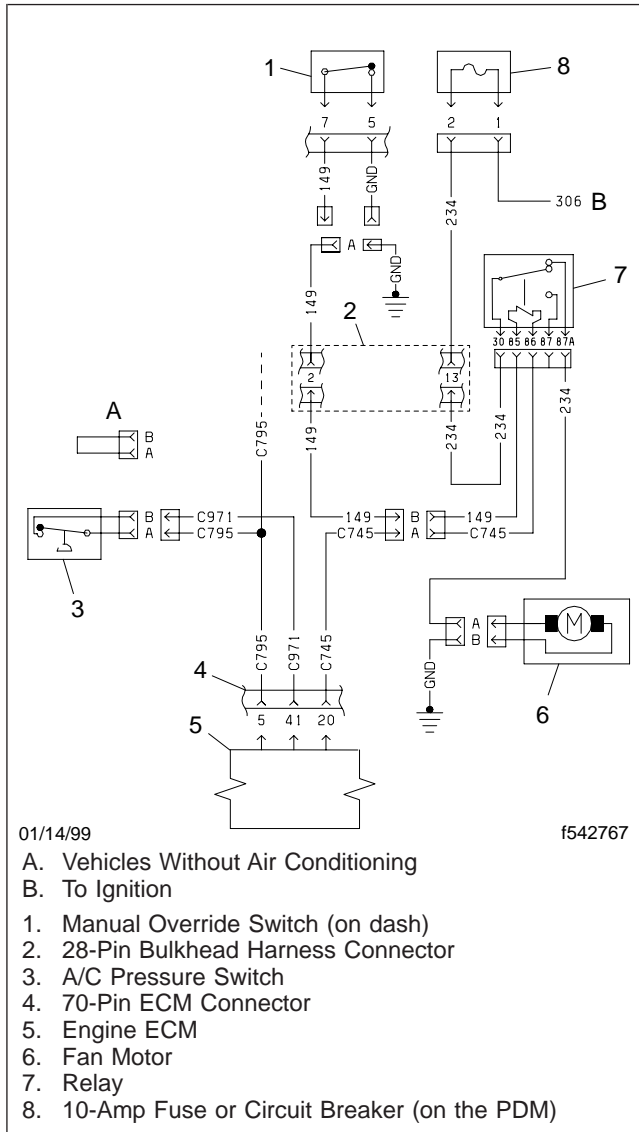


Fig. 1, Corsair Fan Wiring Diagram (Caterpillar engines)

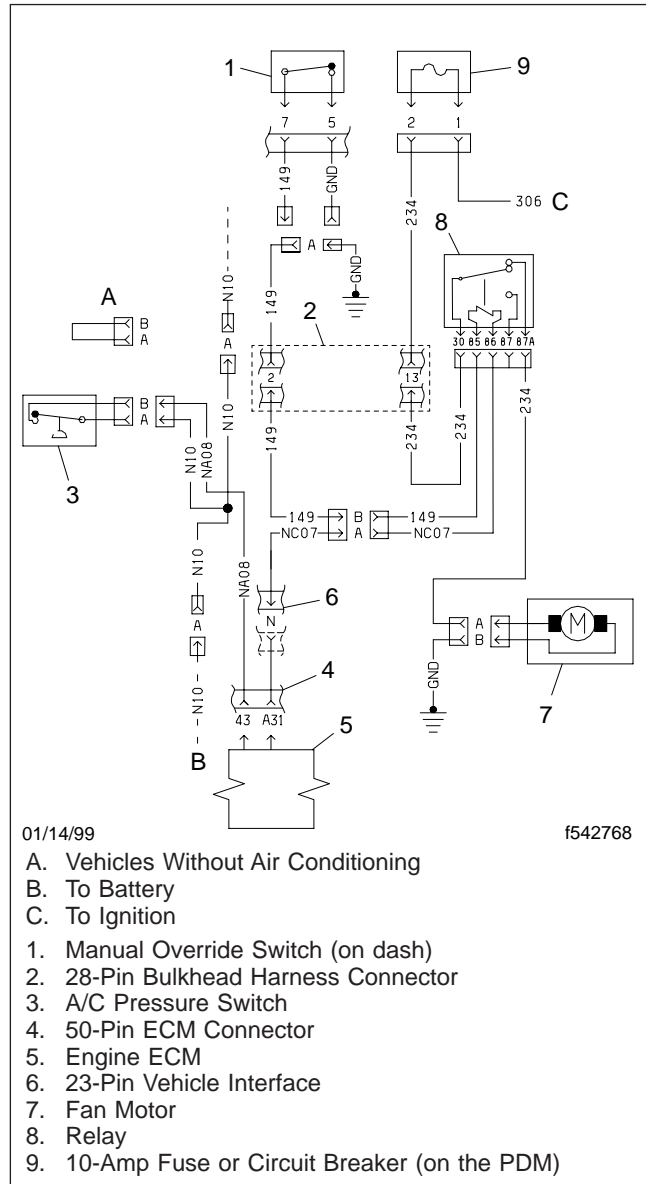
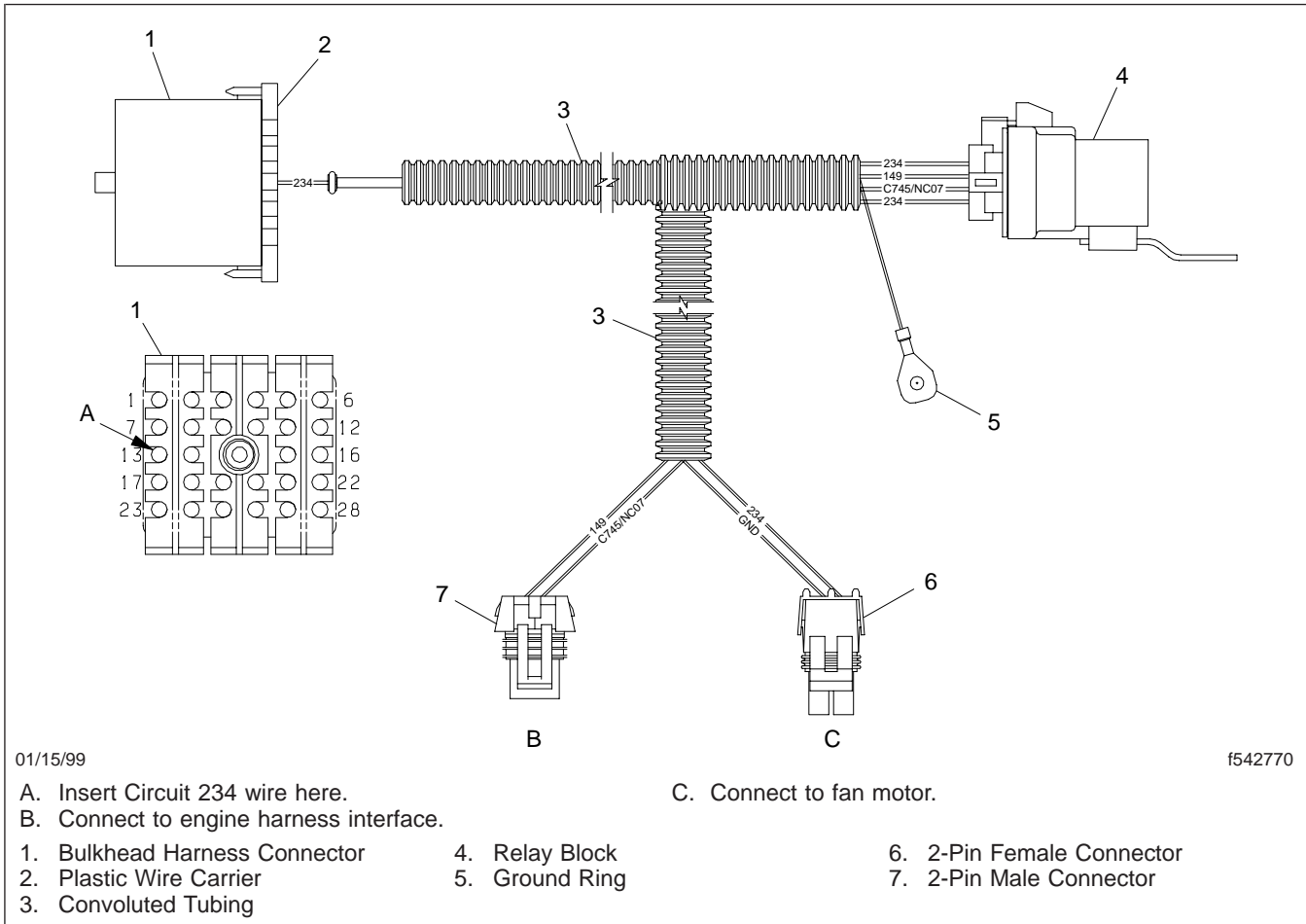


Fig. 2, Corsair Fan Wiring Diagram (Cummins engines)

6. Install the adapter harness. See [Fig. 4](#) or [Fig. 5](#).
  - 6.1 Disconnect the batteries at the negative terminals.
  - 6.2 Attach the relay block(s) of the applicable adapter harness to a suitable location on the firewall.
  - 6.3 Connect the ground ring of the adapter harness to a suitable ground.
  - 6.4 Disconnect and remove the short length of wiring between the fan motor and the engine harness wiring.





**Fig. 4, Adapter Harness (Caterpillar and Cummins engines)**

6.8 Remove the plastic wire carrier from the bulkhead connector.

6.9 *For Caterpillar and Cummins engines*, remove the plastic seal from the pin 13 space on the bulkhead connector. Put the single wire (circuit 234) from the adapter harness through the plastic wire carrier, then connect it to pin 13 of the bulkhead connector.

*For Detroit Diesel engines*, remove the plastic seal from the pin 2 space on the bulkhead connector. Put the single wire (circuit 149) from the adapter harness through the plastic wire carrier, then connect it to pin 2 of the bulkhead connector.

6.10 Install the plastic wire carrier onto the bulkhead connector.

7. Connect the batteries, then check the operation of the fan.

8. Close the hood.

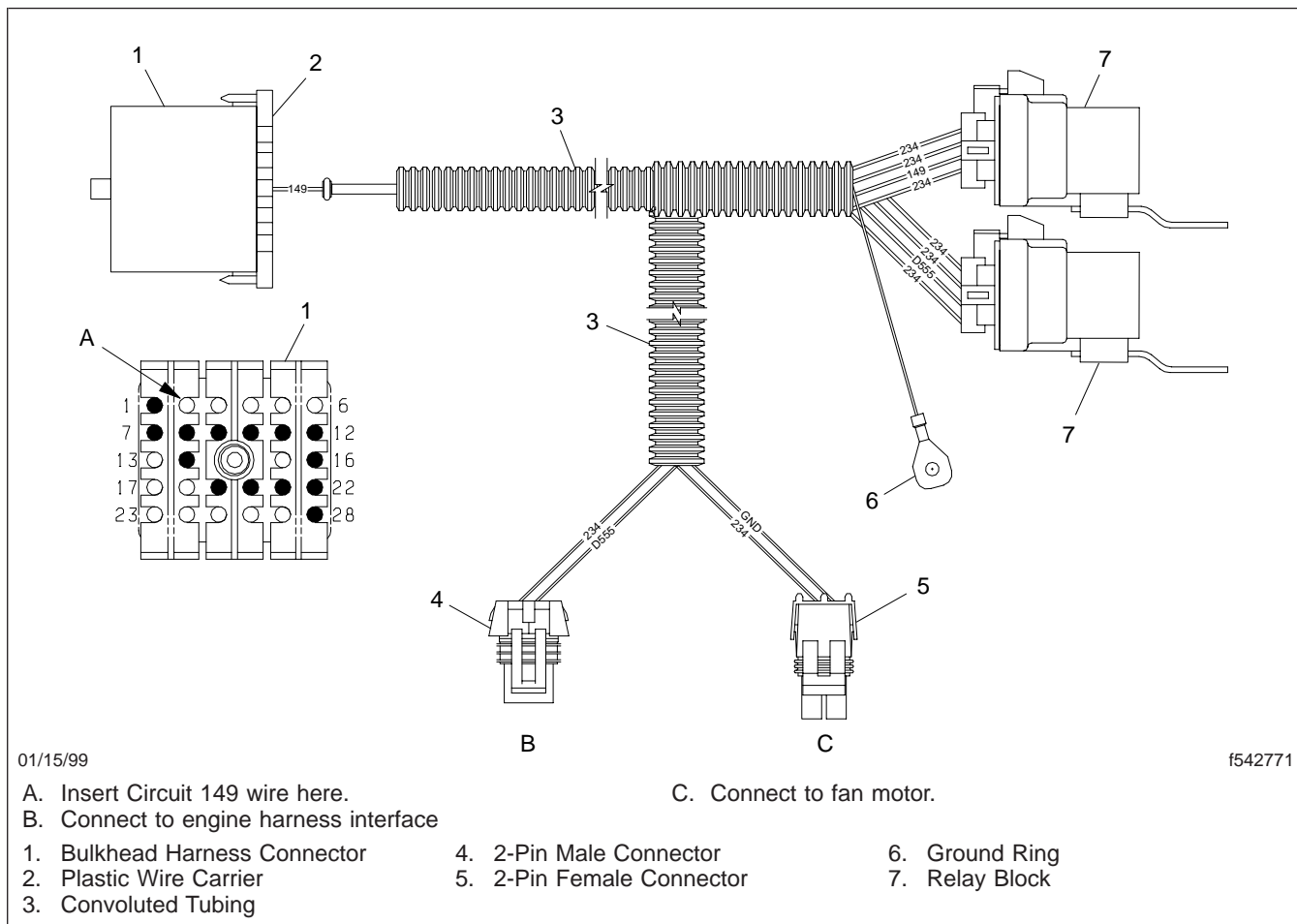
9. Remove the chocks from the tires.

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**Fig. 5, Adapter Harness (Detroit Diesel engines)**

## 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)
273-002651647	276-5000A	Fan, Corsair, Wiring, Modification	1.9

**Table 2, Damage Code and Repair Time Information**