

FLA COE
FLB COE
FLD Conventional
Business Class
FLC 112 Conventional

Century Class Conventional
Argosy
Cargo
Columbia
122SD and Coronado

> Business Class M2
Cascadia
> 108SD/114SD
New Cascadia

**Freightliner
Service Bulletin**

General Information

The severe-duty main PDM (BUS31S430 0) is designed as a replacement for the main PDM for Business Class M2, and severe-duty 108SD and 114SD vehicles operating in severe moisture and/or corrosive environments. Installing the severe-duty PDM requires drilling new mounting holes due to a slightly larger outside diameter. The connectors and cable eye terminals from the original PDM will connect to the severe-duty PDM. The severe-duty main PDM has improved sealing for the cover and all terminals.

Use to the instructions in this bulletin to retrofit the vehicle with the severe-duty PDM.

Work Instructions

1. Park the vehicle on a level surface, apply the parking brakes, and shut down the engine. Chock the tires.
2. Disconnect the batteries.
3. Tilt the hood.

NOTE: The main power distribution module (PDM) is mounted in the engine compartment on the left-front inner fender. See [Fig. 1](#).

4. Remove the nuts and washers that attach the battery cables to the power studs, then remove the battery power cables from the PDM. See [Fig. 2](#).

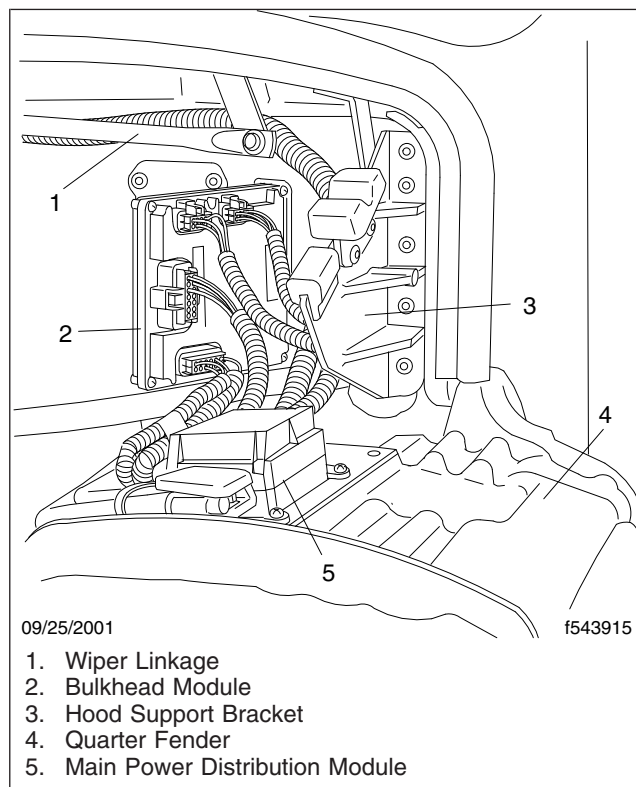


Fig. 1, Main Power Distribution Module Installation

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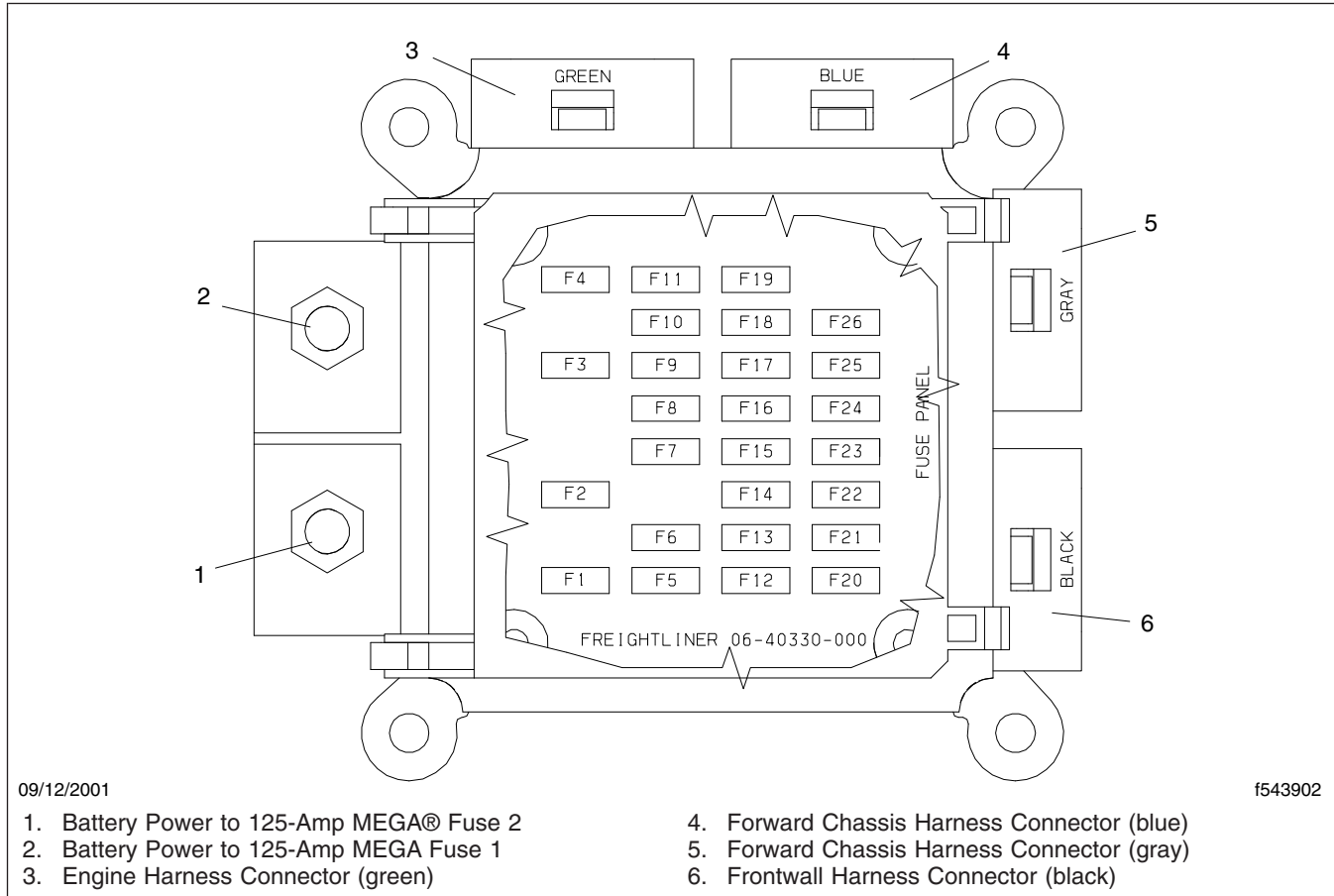


Fig. 2, Main PDM Fuse Panel Layout and Connections

5. Remove the four harness connectors (green, blue, gray, and black) from the PDM.
6. Remove the four Torx® capscrews that attach the PDM to the inner fender, then remove the PDM.
7. If equipped, remove the three fasteners securing the plow PDM to the fender-mounted bracket then carefully move the plow PDM away from the fender-mounted bracket.
8. Remove the fasteners securing the fender-mounted bracket to the cab and fender, then remove the fender-mounted bracket.
9. Using the mounting holes of the new severe-duty PDM as a pattern, mark and drill four 0.3-inch (8-mm) holes in the fender-mounted bracket. See [Fig. 3](#) and [Fig. 4](#). The two rear holes (bulkhead/frontwall side) should be 2 inches (50 mm) from the rear edge of the fender-mounted bracket, and the two outside holes should be 5/8 inch (16 mm) in from the left-inside edge of the formed side of the fender-mounted bracket.

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Fig. 3, Using the new PDM to Mark Drill Holes

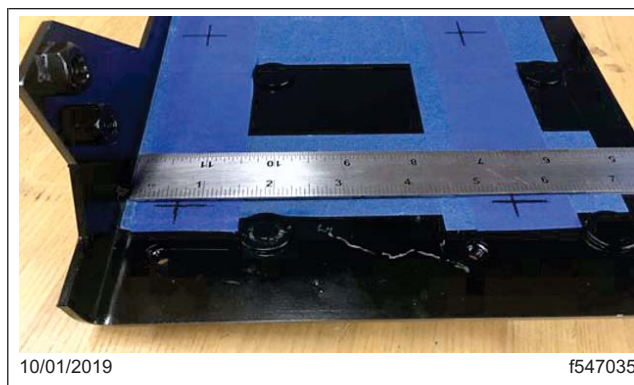


Fig. 4, Measuring the Drill Markings

10. Verify that the new severe-duty PDM has correct fuse sizes and location, using the original main PDM as a reference. Due to vehicle option variations that effect amperage requirements, and fuse size/location that change based on vehicle specifications, the severe-duty PDM will not come with fuses in the following four cavities:

- F3
- F9
- F16
- F24

The correct fuse amp size and location must be determined based on individual vehicle configuration.

NOTE: If there is a question regarding fuse size, use PartsPro and the serial number of the vehicle to access module 285. Pull up the PDM using the EZ button. Based on the last three digits of the part number, the fuse size and locations can be referenced from the print.

11. Mount the severe-duty PDM on the fender-mounted bracket using the cable eye terminal studs to the forward-facing side of the fender-mounted bracket. See [Fig. 5](#). Secure it with four M8 bolts (23-13345-020) and four M8 nuts (N913023 008003), and tighten to 11 lbf-ft (15 N-m). The four bolts should face upward to

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maintain clearance with the fender.

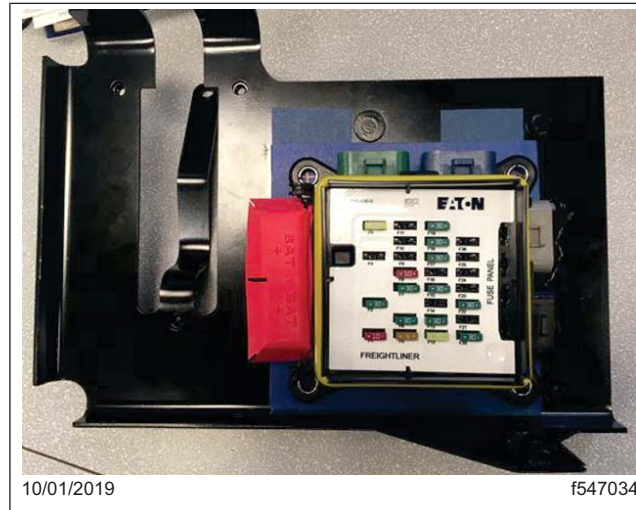


Fig. 5, Mounting the PDM

12. Connect the color coordinated harness connectors and cable eye terminals to the severe-duty PDM, and install the fender-mounted bracket. Secure it with the original fasteners.
13. Install the PDM on the fender-mounted bracket.
14. If equipped, install the plow PDM on the fender-mounted bracket.
15. Connect the batteries.
16. Lower the hood.
17. Verify operation of electrical components.

Warranty

This is an information bulletin only. Warranty does not apply.