

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

General Information

A wiring modification is required when the Business Class M2 Chassis Module (CHM) is replaced with the new CHM version 4.1. This modification is only necessary on vehicles with EPA07 and earlier emissions, and export vehicles built before 2010. See [Table 1](#) for the old and new CHM part numbers.

NOTE: The last three digits in the part numbers shown in [Table 1](#) (represented by "XXX") are not specified because these numbers will change based on the release version of the part.

| CHM Part Numbers | | |
|------------------|-----------------|-----------------|
| Part | Old Part Number | New Part Number |
| CHM – Full | 06-34530-XXX | 06-75158-XXX |
| CHM – Std | 06-42391-XXX | 06-76796-XXX |
| CHM – Ltd | 06-42399-XXX | 06-76797-XXX |

Table 1, CHM Part Numbers

When the new CHM is used to replace the superseded model, a modification to the J1587/1708 databus wiring must be made.

Additionally, at customer request, an optional high-current circuit can be added for the new model CHM to source more amperage for additional marker lamp outputs. The new CHM marker lamp circuit can source a total of 25 amps without using an additional PDM and relay, however, an additional power feed circuit must be added.

The following instructions describe the required databus modification and the optional marker lamp wiring upgrade.

Parts

See [Table 2](#) for parts required for the databus modification and the optional marker lamp upgrade.

| Parts Required | | | | |
|----------------------------------|------------------|----------------------|-----------|-------------------|
| Part Description | DTNA Part Number | Supplier Part Number | Quantity | Required/Optional |
| Plug | 23-13218-010 | 15305170 | 1 | Required |
| Plug | 23-13218-011 | 15305 | 1 | Required |
| Adhesive Lined Shrinkable Tubing | 48-02461-025 | Various | 4 Inches | Required |
| Terminal, CHM | 23-13212-121 | 15304720 | 1 | Optional |
| Terminal, PDM | 23-13213-121 | 12129493 | 1 | Optional |
| Seal | 23-12497-282 | 15366067 | 2 | Optional |
| Fuse 30 Amp | 23-12537-030 | Various | 1 | Optional |
| Wire, 12 gauge (3mm) | 48-25085-12x | Various | As Needed | Optional |
| Convolute Conduit, 1/2 inch | 48-02217-050 | Various | As Needed | Optional |

Table 2, Parts Required

Instructions

1. Shut down the engine, chock the tires, and disconnect the batteries.

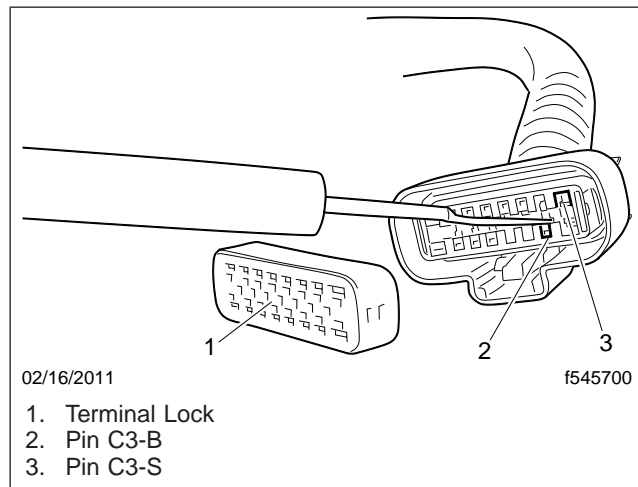
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2. Remove the chassis module.
3. Remove the J1587/1708 wires from connector C3. See **Fig. 1**.
 - 3.1 Remove connector C3 from the chassis module.
 - 3.2 Remove the wire protection comb on the back of the connector.


Fig. 1, Removing J1587/1708 Wires from Connector C3

- 3.3 Remove the terminal lock from the inside of the connector.
 - 3.4 Remove the J1587/1708 – circuit from pin C3-B.
 - 3.5 Remove the J1587/1708 + circuit from pin C3-S.
 - 3.6 Cut the terminals off the wires and fold 1 inch (2.5 cm) of the wire back over itself.
 - 3.7 Place a 2-inch (5-cm) length of adhesive lined shrinkable tubing over the wire and heat until completely sealed.
 - 3.8 Dress the wires back into the convolute conduit.
4. Place the plug (p/n 23-13218-010) in connector C3 cavity B.
 5. Place the plug (p/n 23-13218-011) in connector C3 cavity S.
 6. Assemble the lock and comb onto connector C3.
 7. Install the new CHM and connect the batteries.

Installing Additional Marker Lamps

The following steps are optional. To wire additional marker lamps to the CHM, perform the following modification to source up to 25 amps total through the CHM marker lamp circuit. This 25 amp limit on this circuit is the combination of pins C4-C, C4-D, C4-L, C4-M, and C2-F.

1. Disconnect the batteries.
2. Install seal part number 23-12497-282 and terminal part number 23-13213-121 to a length of 12 gauge (3 mm) wire.

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3. Locate an unused fuse/circuit in the main PDM. Install this wire in the corresponding connector of the main PDM for this circuit. See [Table 3](#) for a chart of available fuses and circuits.

| Typical Spare Fuses in Main PDM | |
|---------------------------------|--------------------|
| Fuses | Connector and Pin |
| F1 | Green A |
| F3 | Green H |
| F4 | Green G |
| F6 | Black C |
| F9 | Green D |
| F10 | Blue G and Green F |
| F11 | Blue H |
| F14 | Black B |
| F21 | Black F |
| F23 | Gray H and Blue E |
| F24 | Gray D |
| F25 | Gray C |

Table 3, Typical Spare Fuses in Main PDM

4. Protect the wire with convolute conduit tubing and assemble it along the existing chassis wiring harness to the CHM. Place cable ties every 12 inches (30 cm) as appropriate to secure the new wire.
5. Install seal part number 23-12497-282 and terminal part number 23-13212-121 on the end of this wire and connect it into CHM connector C3 pin S. The plug that was installed in C3-S is not needed.
6. Verify that the wire size on C4-C, C4-D, C4-L, C4-M, and C2-F is a gauge that is large enough to allow the amperage that is now sourced for this circuit. An additional 15-amp marker lamp load can now be connected to this circuit.
7. Connect the batteries and the Features screen in ServiceLink to apply reference parameter 26-01086-003 to the BHM. This parameter changes the diagnostic threshold to allow the 25-amp limit on the marker lamp circuit.

Warranty

This procedure is warrantable only if the module is replaced as part of a warrantable repair within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Normal warranty applies. See [Table 4](#) for QuickClaim damage code and labor allowance information. Refer to this service bulletin by number at the beginning of the claim comments. See [Table 5](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

| QuickClaim Damage Code and Labor Allowance | | | |
|--|-----------|--------------------------------------|-------------|
| Damage Code | SRT Code | Description | Time: Hours |
| 335-000651647 | 335-5015A | Wiring, Chassis Module J1587, Remove | 0.2 |

Table 4, QuickClaim Damage Code and Labor Allowance

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| OWL VMRS Codes and Labor Allowance | | | | |
|------------------------------------|------------|-----------|--------------------------------------|-------------|
| Component Code | Cause Code | SRT Code | Description | Time: Hours |
| 003-006-011 | 77 | 335-5015A | Wiring, Chassis Module J1587, Remove | 0.2 |

Table 5, OWL VMRS Codes and Labor Allowance