



FIELD SERVICE CAMPAIGN – 18116

03 January 2019

SUBJECT:

Auto Neutral Wiring

MODELS INVOLVED:

International® MV™ and HV™ Series Trucks

DEFECT DESCRIPTION:

Certain International® MV™ and HV™ Series trucks may have been built with an Instrument Panel (IP) harness without the Auto Neutral return wire to the interconnection to the engine harness.

ELIGIBILITY:

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with FSC 18116. Also complete any other open campaigns listed on the Service Portal at this time.

TOOLS REQUIRED:

No special tools required.

PARTS REQUIRED:

Part Number	Description	Quantity
Obtain Locally	Tan 18 Gauge Wire	5.3 ft.
Obtain Locally	Cable Tie Strap	As Needed
Obtain Locally	Heat Shrink Tubing	As Needed
3768007C1	Terminal, Cable, MTA F630, 16-18 Gauge	1
2003343C1	Terminal, Cable EDU Module Female	1

Table 1 Parts Information

WORK INSTRUCTIONS

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery before disconnecting any electrical components. Always connect the ground cable last.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

1. Park vehicle on flat surface.
2. Shift transmission into Park or Neutral and set parking brake.
3. Turn vehicle ignition to Key OFF position.
4. Install wheel chocks.
5. Disconnect and isolate negative battery cable on main vehicle battery.
6. Cut 5.3 feet of 18-gauge TAN wire.
7. Remove insulation 1/4 inch (6 mm) from one end of wire.
8. Install and crimp terminal 2003343C1 to wire.

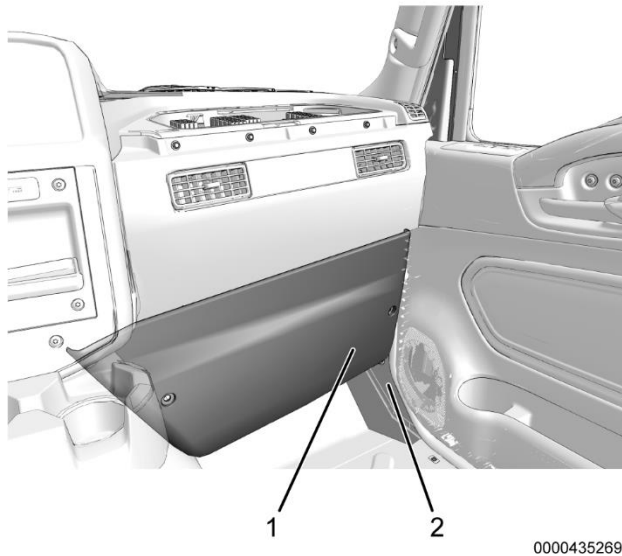
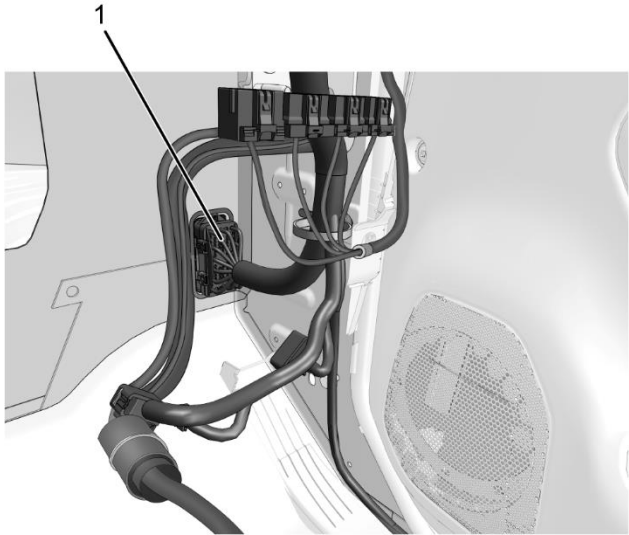


Figure 1. HVAC Cover and Kick Panel

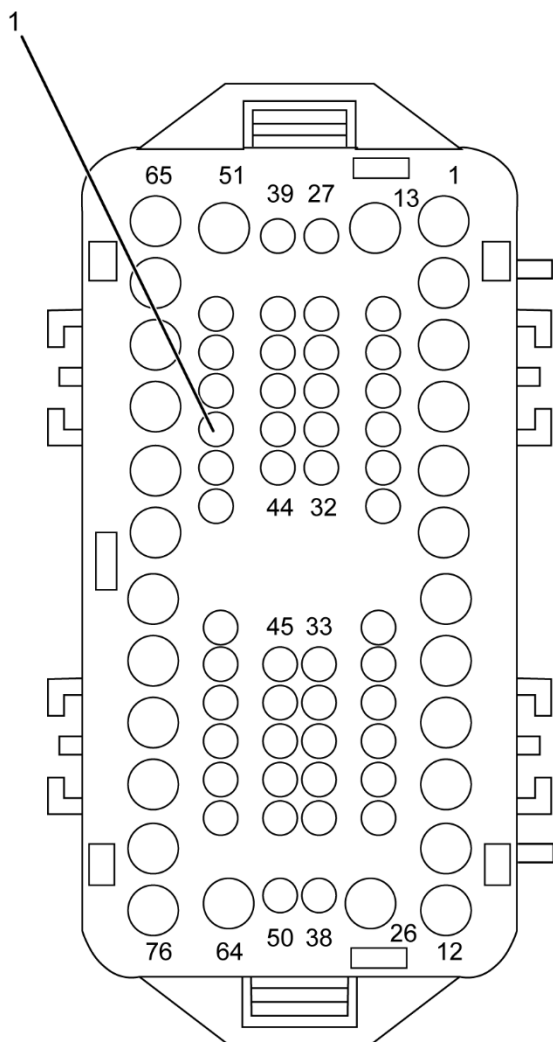
1. HVAC cover
 2. Kick panel
9. Remove HVAC cover (Figure 1, Item 1) and right-side kick panel (Figure 1, Item 2) to gain access to Instrument Panel (IP) cowl harness interconnection pass through connector.



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Figure 2. Connector Pass Through

1. Connector 1703M
10. Gain access and disconnect connector 1703M (Figure 2, Item 1) at firewall.



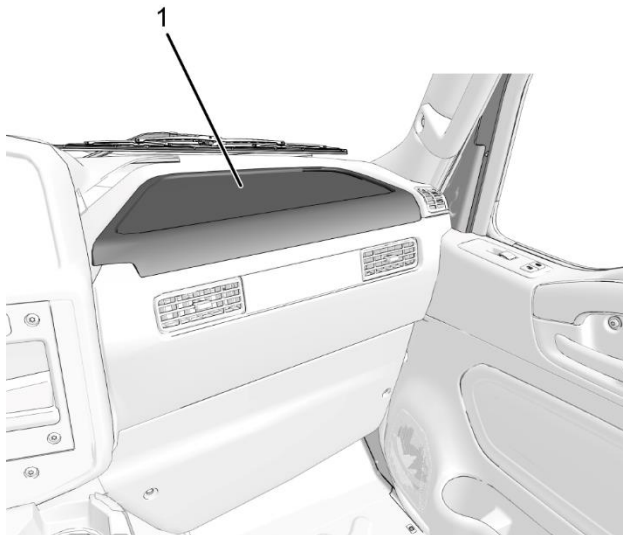
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Figure 3. 1703M Connector

1. Cavity 55

NOTE: Ensure wire located in cavity 55 is marked A92#103A on the insulation.

11. Unlock connector and depopulate wire located in cavity 55 (Figure 3, Item 1).
12. Position heat shrink tube over end of wire. Tubing must extend 1/2 inch past end of wire.
13. Using heat gun and pliers, shrink tubing and pinch end closed.
14. Using cable tie strap, secure wire to IP harness.

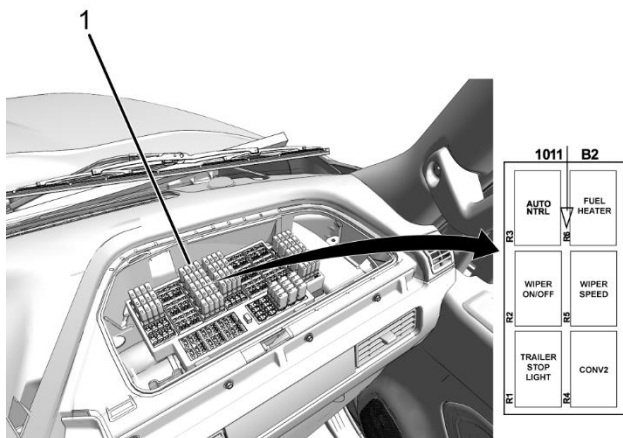


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Figure 4. Power Distribution Module (PDM) Cover

1. PDM cover

15. Remove PDM cover (Figure 4, Item 1) on passenger-side of instrument panel.

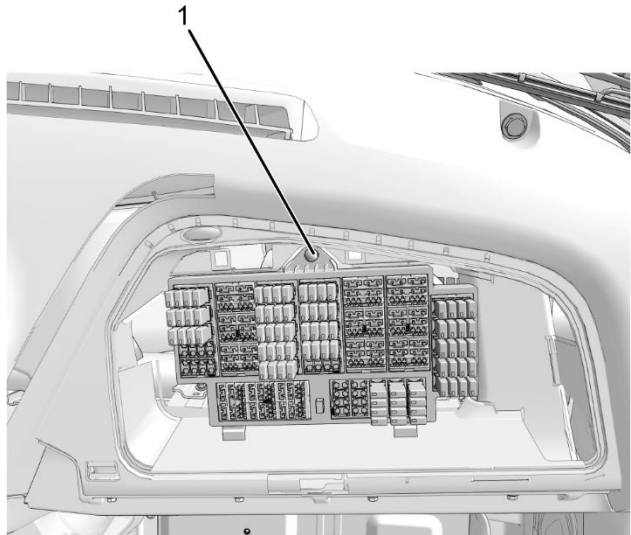


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Figure 5. Auto Neutral Relay

1. Auto neutral relay

16. Locate and remove auto neutral relay (Figure 5, Item 1) positioned at 1011-B2, R3. Save relay for reuse.



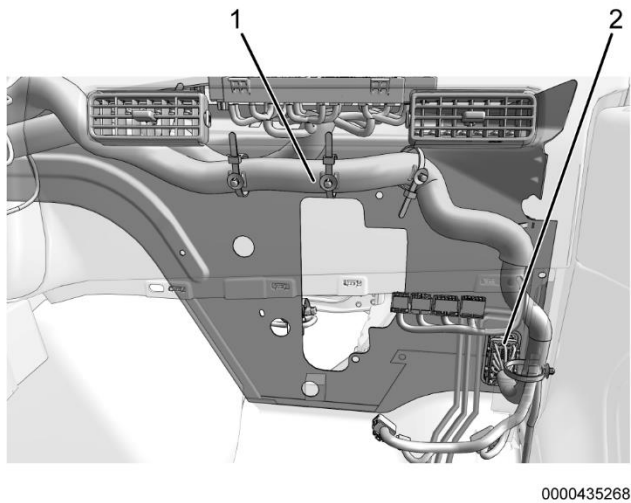
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Figure 6. PDM

1. Hold down bolt

NOTE: The bolt will need to be removed and the PDM pulled from the panel to insert the correct wire.

17. Remove hold down bolt (Figure 6, Item 1) located at top of PDM assembly.
18. Lift PDM and viewing from bottom, locate 1011-B2, R3 cavity 30 and remove terminal position lock.
19. Install terminal 2003343C1 into cavity 30.
20. Reinstall terminal position lock.
21. Install PDM assembly.
22. Install auto neutral relay.



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Figure 7. Instrument Panel Harness

1. IP harness
2. 1703M connector

23. Route wiring along main branch of IP harness (Figure 7, Item 1) to 1703M connector (Figure 7, Item 2).

NOTE: Cut any excess wire not needed.

24. Remove insulation 1/4 inch (6 mm) from end of wire.
25. Install and crimp terminal 3768007C1 to wire.
26. Install terminal into cavity 55 of 1703M connector.
27. Ensure all terminals are correctly seated and lock connector.
28. Install connector 1703M.
29. Using cable tie straps, secure wire to main branch of IP harness.
30. Install PDM cover, HVAC cover and kick panel.
31. Connect negative battery cable to negative terminal on main vehicle battery.
32. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Operation Number	Description	Time
A40-18116-1	Install Auto Neutral Wiring	0.9 hr

Table 2 Labor Information

WARRANTY CLAIMS

Warranty claim expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Field Service Campaign 18116.

Section 7 of the Warranty Policy and Procedures Manual contains further information related to the submission and processing of AFC / Recall claims.

As with all claim submissions, items acquired locally must be submitted in the “Other Charges” tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, barrel of oil, or tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

To make sure this important improvement is made in a timely manner, all claims for 18116 activity must be submitted by 03 January 2020 or within the normal warranty period for the component, if after 03 January 2020.

GROUP	NOUN	C	WARR.	TP	PAD

GROUP — Enter number ←

NOUN — Leave blank ←

C (CAUSE) — Enter either 1, 2, 3. (See below)

- 1. Inspected (No repair required).
- 2. Inspected and repaired.
- 3. Defective part from parts stock.

WARRANTY — (Warranty Code) Enter 40. ←

TYPE PART — Enter P for type part causing failure. ←

PAD — Enter 100 ←

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