



FIELD SERVICE CAMPAIGN – 21110R1

05 October 2021

SUBJECT:

Auxiliary Heater (ESPAR) Disable Signal

MODELS INVOLVED:

International® LT®, LoneStar® and HX® Series trucks with International® A26 or Cummins® X15 engine

DEFECT DESCRIPTION:

The ESPAR heater may not function properly because of a constant voltage supply from the BCM to the ESPAR control module.

REASON FOR REVISION:

Updates to images and procedure for additional clarity.

ELIGIBILITY:

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with FSC 21110. 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	Tool Number
476074C1	Nut, Battery Terminal 3/8-inch UNC (One Time Use)	1
Source Locally	Heat Shrink Tubing	2
Source Locally	Cable Tie Strap	2

Table 1 Parts Information

WORK INSTRUCTIONS

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

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

1. Park vehicle on a level surface.
2. Shift transmission into Park or Neutral and set parking brake.
3. Turn ignition to Key OFF position.
4. Install wheel chocks.
5. Disconnect and isolate negative battery cable on main vehicle battery. Discard battery terminal nut.

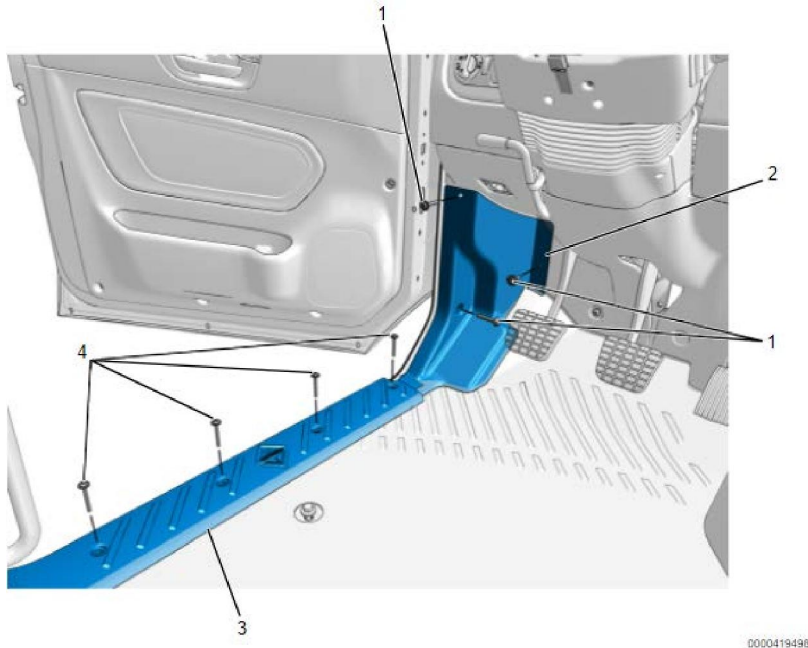


Figure 1. Driver-Side Scuff Plate and Kick Panel

1. Kick panel bolt and screw (3)
 2. Kick panel (driver-side)
 3. Scuff plate (driver-side)
 4. Scuff plate screw (4)
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6. Open driver-side door.
 7. Remove driver-side scuff plate screws (Figure 1, Item 4). Save screws for reuse.
 8. Carefully remove driver-side scuff plate (Figure 1, Item 3) and place on clean workbench.
 9. Remove driver-side kick panel bolts and screws (Figure 1, Item 1). Save bolts and screws for reuse.
 10. Carefully remove driver-side kick panel (Figure 1, Item 2) and place on clean workbench.



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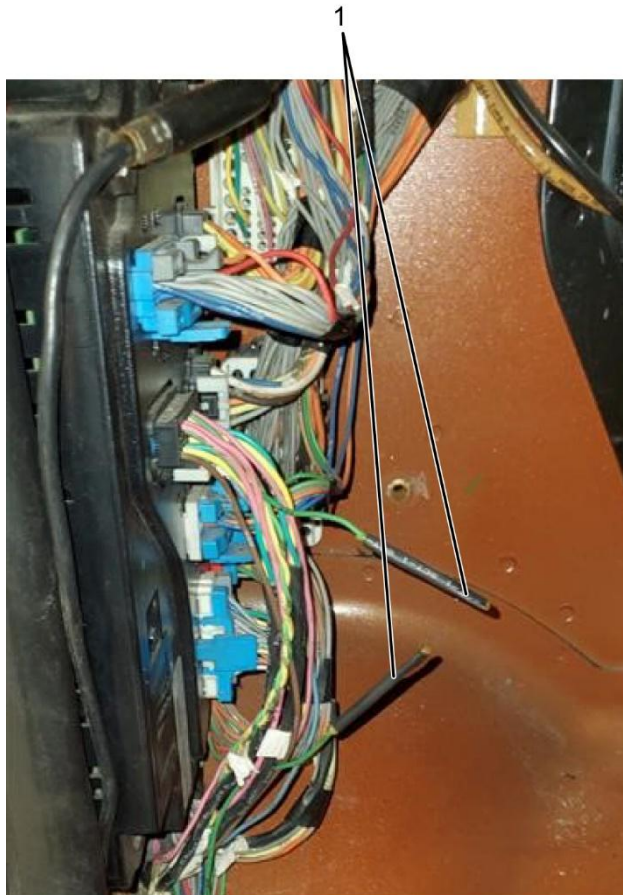
Figure 2. Body Control Module (BCM) Harness and Connectors

1. BCM
2. BCM harness connector J6 (1606)

11. Find terminal L from BCM connector J6 (Figure 2, Item 2). Refer to the appropriate circuit diagram for detailed information.

NOTE: Be absolutely sure you have identified the correct wire at the correct location before cutting.

12. Cut wire from terminal L, BCM HVAC Heater Enable Status ON / OFF wire, 5 inches (12.7 cm) away from BCM connector J6.



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Figure 3. BCM Harness

1. Cut wire end (2)

NOTE: Ensure that the heat shrink goes past the end so it can be pinched shut.

13. Position heat shrink over cut wire ends (Figure 3, Item 1). Tubing must extend 0.5 inches (1.3 cm) past end of wires.
14. Using a heat gun, shrink tubing and pinch ends closed.
15. Secure loose wires to harness with cable tie strap.

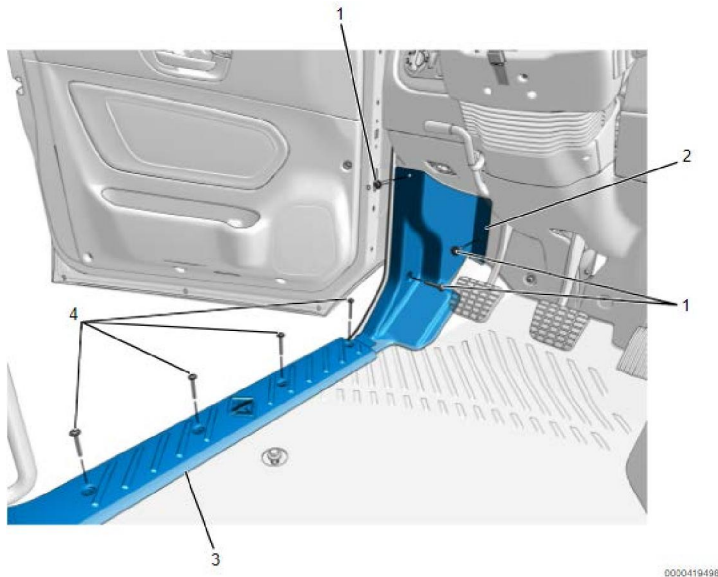


Figure 4. Driver-Side Scuff Plate and Kick Panel

1. Kick panel bolt and screw (3)
2. Kick panel (driver-side)
3. Scuff plate (driver-side)
4. Scuff plate screw (4)

16. Position driver-side kick panel (Figure 4, Item 2) into place.
17. Install driver-side kick panel bolts and screws (Figure 4, Item 1). Using torque wrench, tighten bolts and screws to 11 lb-in (1.2 N·m).
18. Position driver-side scuff plate (Figure 4, Item 3) into place.
19. Install driver-side scuff plate screws (Figure 4, Item 4). Using torque wrench, tighten screws to 11 lb-in (1.2 N·m).
20. Close driver-side door.
21. Using a wire brush, electronic contact cleaner and compressed shop air, clean negative battery terminal components.
22. Apply BLUE dielectric grease to battery terminal stud, negative battery cable ring terminal, and threads of new battery stud nut.
23. Using new battery stud nut, reconnect negative battery cable to negative terminal on main vehicle battery and install new battery terminal nut.
24. Using torque wrench, tighten battery stud nut to 12 - 15 lb-ft (16 - 20 N·m).
25. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Operation Number	Description	Time
A40-21110-1	Locate and Cut Wire	0.4 hrs

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 21110.

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 that this important improvement is made in a timely manner, all claims for 21110 activity must be submitted by 05 October 2022 or within the normal warranty period for the component, if after 05 October 2022.

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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