



FIELD SERVICE CAMPAIGN – 22102

24 March 2022

SUBJECT:

Terminator Resistor Installation

MODELS INVOLVED:

International® HX® Series trucks

DEFECT DESCRIPTION:

Certain International® HX® series trucks may have been built without a terminating resistor on the Forward Chassis / Center Chassis Connector resulting in corrosion build up on a 250k data link connector. All other vehicles built during this period have either been repaired prior to shipment or determined to not require this repair.

ELIGIBILITY:

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with FSC 22102. Also complete any other open campaigns listed on the Service Portal at this time.

TOOLS REQUIRED:

Description	Tool Number
Crimping Tool	Source Locally
Wire Stripper, 22 to 10 AWG	Source Locally
Diagonal Cutting Pliers	Source Locally

Table 1 Tools Information

PARTS REQUIRED:

Part Number	Description	Quantity
3683465C1	Body, Elect Connector, Male 2-Way	1
2507598C1	Lock, Connector Body	1
3769112C91	Resistor, 120 Ohm Terminating Resistor	1
3683464C1	Terminal, Cable	2
2519455C1	Plug, Sealing, Elect Connector, Cable Terminal	2
476074C1	Nut, Battery Terminal 3/8-inch UNC (One Time Use)	1
Source Locally	Cable Tie Strap	2

Table 2 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.
6. Unlatch and open hood.

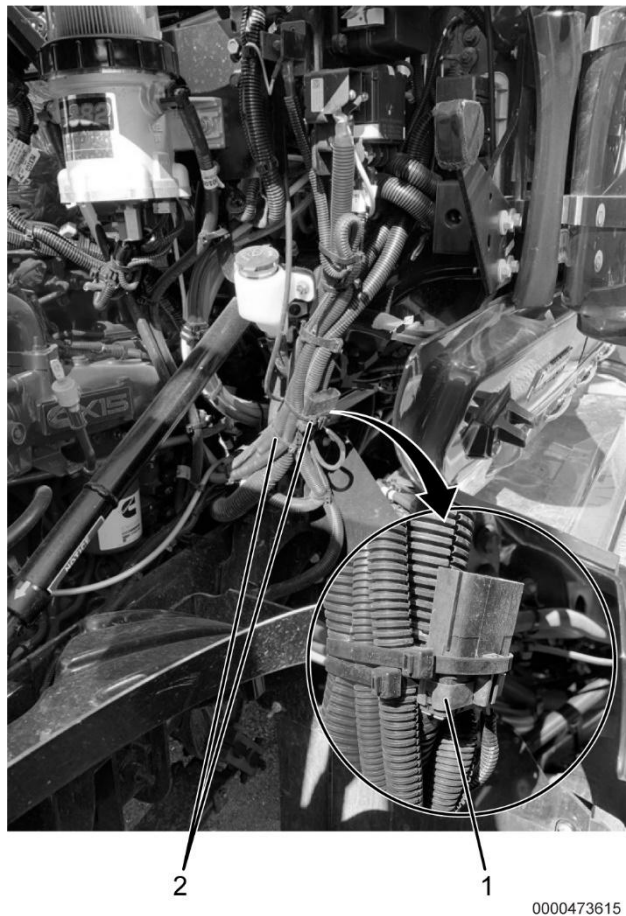
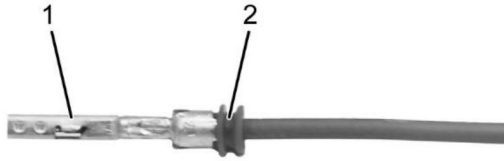


Figure 1. Forward Chassis / Center Chassis Connector

1. 250k data link connector
 2. Cable tie strap (2)
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7. Carefully cut cable tie strap (Figure 1, Item 2).
 8. Using diagonal cutting pliers, cut the GREEN and YELLOW wires at the chassis harness 250k data link connector (Figure 1, Item 1) and discard connector.
 9. After cutting both wires, use wire stripper to strip the wire insulation about 1/4 inch (64 mm) on each end.



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Figure 2. Connector terminal seal assembly

1. Terminal 3683464C1
2. Terminal Seal 2519455C1

10. Insert electronic connector terminal seal (Figure 2, Item 2) over YELLOW wire.
11. Insert exposed portion of YELLOW wire into the barrel of the terminal (Figure 2, Item 1)
12. Using crimping tool, crimp terminal by placing the barrel of the terminal into the appropriate crimper slot, then crimp and secure electronic connector terminal seal.
13. Repeat steps 10 through 12 for GREEN wire.

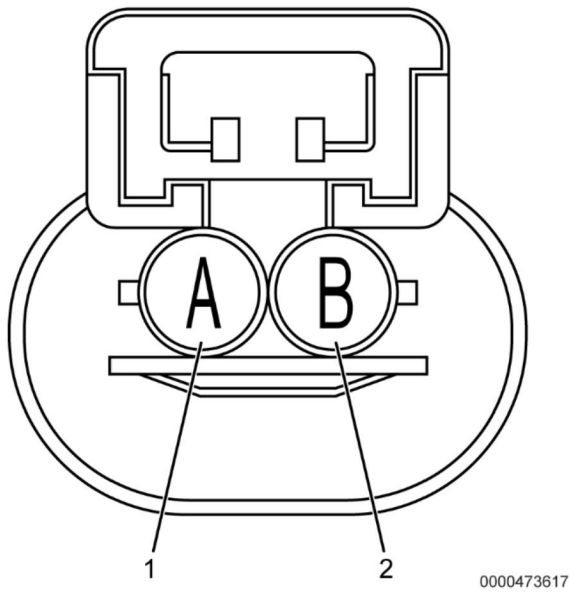


Figure 3. Connector – 2 Way

1. Cavity A
2. Cavity B

NOTE: Ensure that terminals are completely inserted into the connector

14. Populate YELLOW wire into connector Cavity A (Figure 3, Item 1) of 2-way connector.
15. Populate GREEN wire into connector Cavity B (Figure 3, Item 2) of 2-way connector.

NOTE: Ensure connector body lock is completely inserted into the connector

16. Insert connector body lock into male 2-way connector.
17. Install 120 ohm terminating resistor into 2-way connector.



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Figure 4. Cable Tie Strap Locations

1. Cable tie strap (2)
18. Secure wiring harness and male 2-way connector with cable tie straps (Figure 4, Item 1).
19. Close and latch hood.
20. Clean battery terminal with wire brush. Then clean with electrical contact cleaner and dry with shop air.
21. Apply BLUE dielectric grease to battery terminal stud, negative battery cable ring terminal, and threads of new battery stud nut.
22. Reconnect negative battery cable to negative terminal on main vehicle battery and install new battery terminal nut.
23. Using torque wrench, tighten battery stud nut to 12 - 15 lb-ft (16 - 20 N•m).
24. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Operation Number	Description	Time
A40-22102-1	Install Connector and Terminating Resistor	0.5 hrs

Table 3 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 22102.

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 22102 activity must be submitted by 24 March 2023 or within the normal warranty period for the component repaired, if after 24 March 2023.

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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