



FIELD SERVICE CAMPAIGN – 17124

16 November 2017

SUBJECT:

Tire Pressure Monitor Sensors (TPMS)

MODELS INVOLVED:

International® LT™ Series Trucks

DEFECT DESCRIPTION:

On certain International® LT™ Series Trucks, the TPMS ECU may have not been programmed at the time of vehicle assembly.

ELIGIBILITY:

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with FSC 17124. Also complete any other open campaigns listed on the Service Portal at this time.

TOOLS REQUIRED:

Description	Tool Number
EZ Tech® computer	

Table 1 Tools Information

PARTS REQUIRED:

Part Number	Description	Quantity
2518043C1	Pressure, Smarttire, Transmitter Receiver	1

Table 2 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.

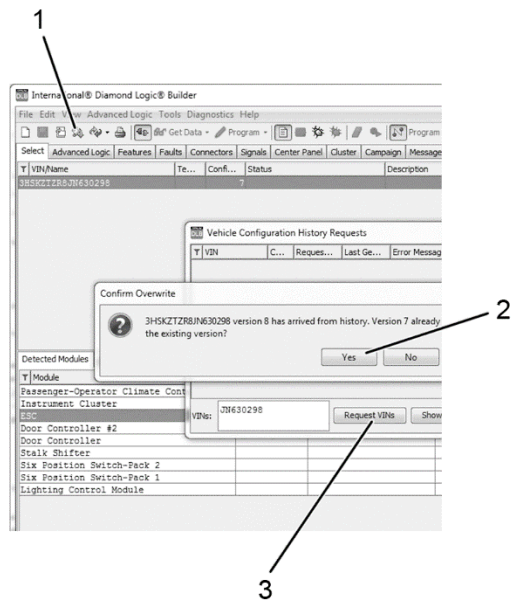
WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, 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 to Park or Neutral and set parking brake.
3. Install wheel chocks.
4. Program BCM, refer to BCM Programming (page 3).
5. Program cluster, refer to Cluster programming (page 4).
6. Connect to TPMS ECU, if TPMS ECU is good, refer to a. If ECU is bad, refer to b.
 - a. Replace ECU, refer to TPMS ECU Replace – Saved Files (page 5).
 - b. Replace TPMS ECU, refer to TPMS ECU Replace – No Saved Files (page 6).

BCM Programming

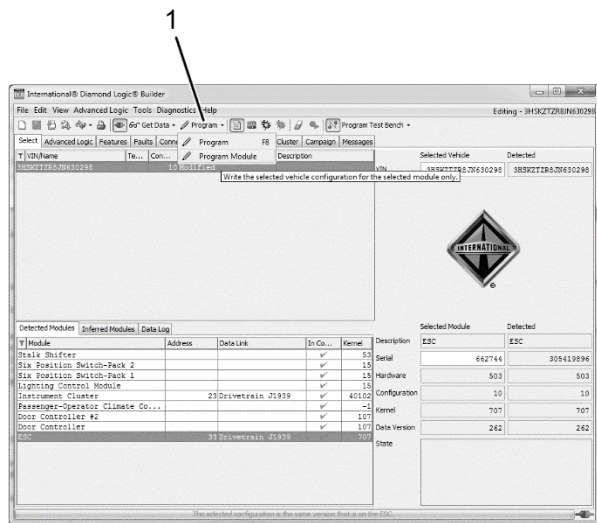
1. Connect smart charger to truck batteries and verify voltage is between 12.5v and 14.0v direct current (DC).
2. Ensure key is OFF, dome and park lights are turned ON.
3. Open Diamond Logic® Builder (DLB) software and connect to BCM using an appropriate RP1210 COM adapter (Nexiq cable).



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Figure 1. VIN Information

1. VIN pull down
 2. VIN request
 3. VIN confirmation
4. Get VIN from history (Figure 1, Items 1, 2 and 3).
 5. Make sure correct VIN is selected (highlighted blue).



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Figure 2. Program Drop-Down Menu

1. Program Menu
6. Click on arrow at Program Menu (Figure 2, Item 1) and select Program Module from drop-down options.
7. Verify Selected Vehicle and Detected columns match after programming.

Cluster Programming

1. Verify DLB is still connected in Key OFF position.
2. Highlight instrument cluster in detected module section.
3. Click on update software icon.
4. Select update module.
5. New version will arrive from history; if an update is needed, selected and detected will not match.
6. If selected and detected are identical, refer to TPMS repair section.

NOTE: Reply appropriately to any popup prompts that may appear.

7. If selected and detected are different, click on program icon and select program module.
8. Once successfully programmed, selected and detected kernal versions will be identicle.

TPMS ECU Replacement – Saved Files

1. Obtain latest version of ACOM software (6.14).

NOTE: Software links can be found in the EZ Tech download center or Bendix.com.

2. Contect to TPMS ECU using 9-pin diagnostic connector port and establish communication with TPMS ECU.
3. Select System Parameters tab.

NOTE: Be sure to use a file name that is easy to remember.

4. Select Save to File.
5. Disconnect battery and safely secure negative battery cable.
6. Disconnect connectors going to TPMS ECU.
7. Remove old ECU.
8. Install ECU in reverse order.
 - a. Tighten M6 hold down bolts to 7 - 10 lb-ft (9 - 14 nm).
 - b. Reconnect ECU connectors.
9. Reconnect batteries.
10. Reconnect ACOM.
11. Establish communication with ECU.
12. On System Parameters tab, select Read from File.

13. Upon file population, select Write to ECU.

14. Confirm ECU strategy successfully installed.

NOTE: Cold temperature values may need to be reset.

15. Verify all tire sensors are reporting properly.

16. Remove wheel chocks.

TPMS ECU Replacement – No Saved Files

1. Disconnect battery and safely secure negative battery cable.

2. Disconnect connectors going to TPMS ECU.

3. Remove old ECU.

4. Install ECU in reverse order.

a. Tighten M6 hold down bolts to 7 - 10 lb-ft (9 - 14 nm).

b. Reconnect ECU connectors.

5. Reconnect batteries.

6. Obtain latest version of ACOM software (6.14).

7. Connect to TPMS ECU using 9-pin diagnostic connector port and establish communication with TPMS ECU.

8. Click on Axle Setup.

9. Setup axle according to vehicle configuration.

10. Assign sensor I.D. to each tire.

11. Assign desired tire pressure to each axle.

12. Click on System Parameters.

13. Set First alert level to 15%.

14. Set Second alert level to 20%.
15. Set High temperature alert level to 85 degrees Celsius.
16. Ensure Enable ambient pressure compensation box is checked.
17. Ensure Enable trailer learn and Enable Dedicated Trailer Learn are unchecked.
18. Set Tire Condition Pressure Mode to Absolute.
19. Click Write to ECU.
20. Verify Reflash.
21. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Operation Number	Description	Time
A40-17124-1	Replace TPMS ECU	0.5 hrs
A40-17124-2	Program TPMS ECU	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 17124.

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 17124 activity must be submitted by 16 November 2018 or within the normal warranty period for the component, if after 16 November 2018.

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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