

## Tool Instruction ECM Breakout Harness

4328791R1

Tool Number: 12-801-08



0000468365

Figure 1. 12-801-08 ECM Breakout Harness

## Tool Number: 12-801-08 (cont.)



0000468421

**Figure 2. 12-801-08 ECM Breakout Harness**

### **Purpose**

Essential tool utilized to test / diagnose various circuits.

### **Application(s)**

International® A26 (2021 GHG)

## Application(s) (cont.)

**! WARNING:** To prevent personal injury and / or death, or damage to property, read all safety instructions in the “Safety Information” section of the *Engine Service Manual* or *Engine Diagnostic Manual*.




**! 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 either direction.

**! 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, inspect tool for wear / damage prior to use. Replace any worn or damaged components as necessary.

## Tool Contents

Table 1

Image	Tool Number	Qty	Description
 <p>0000468413</p>	12-801-08-C4	1	Breakout Harness
 <p>0000468414</p>	12-801-08-E8	1	Breakout Harness
 <p>0000160075</p>	4328791R1	1	Tool Instruction

## Instructions

**IMPORTANT: Please reference International® Service Portal<sup>SM</sup> regarding any possible revisions to this document.**

### Installation

1. Park vehicle on level surface.
2. Shift transmission into Park or Neutral and apply parking brake.
3. Turn ignition to Key OFF position.
4. Install wheel chocks.
5. Unlatch and open hood.
6. Access vehicle Engine Control Module (ECM).

## Instructions (cont.)



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**Figure 3. Engine Control Module (ECM)**

1. ECM connector

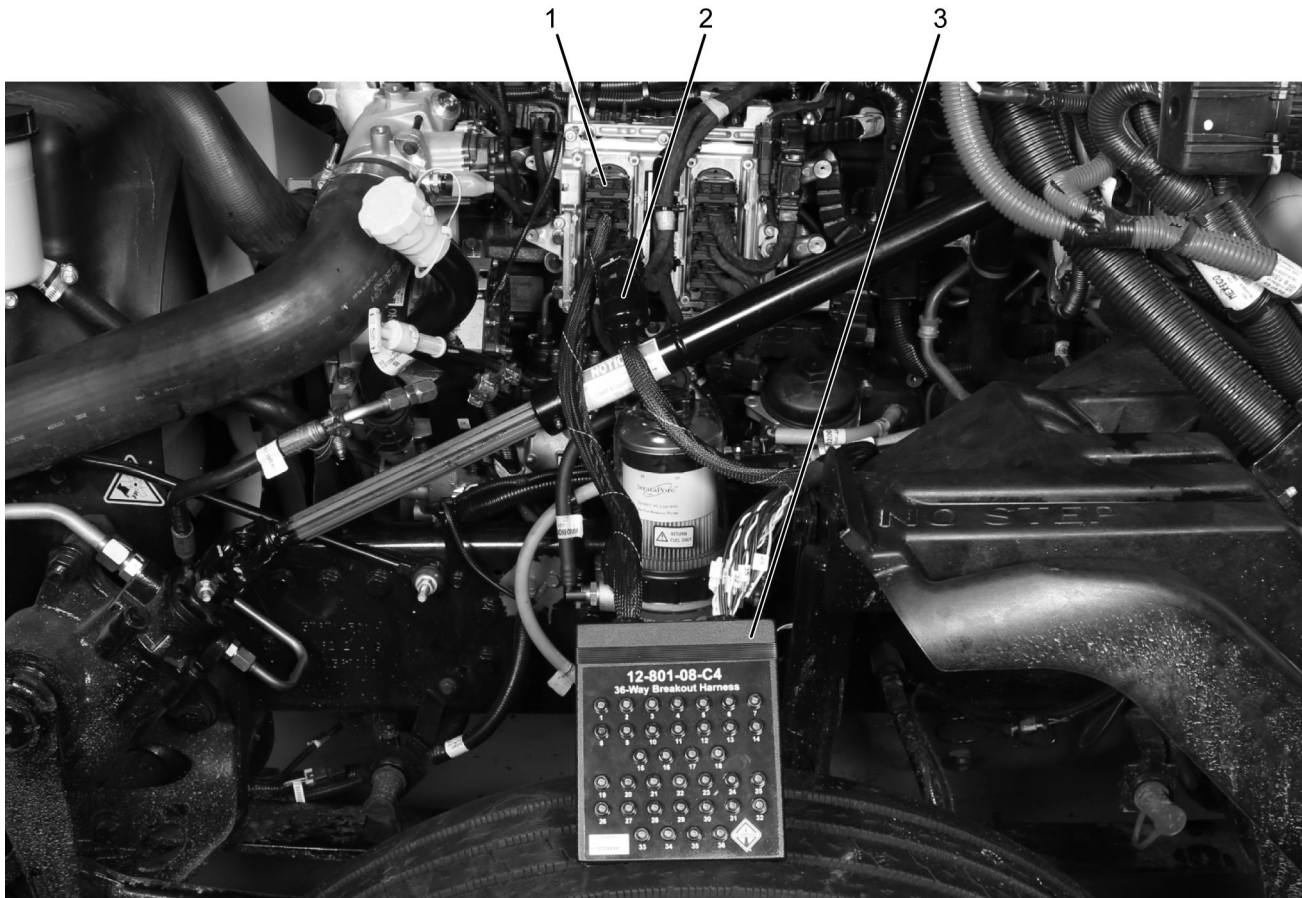
**CAUTION:** To prevent damage to property or components, wait one minute after ignition is in OFF position to disconnect any Electronic Control Module (ECM) connectors. Failure to wait could cause Diagnostic Trouble Codes (DTC(s)) to set.

**CAUTION:** To prevent damage to property or components, use extreme caution when removing and installing Electronic Control Module (ECM) connectors as lock levers are easily broken. Using one hand, lift lock lever and with other hand ensure slide lock moves freely without interference from wiring harness.

**NOTE:** 12-801-08-C4 Breakout Harness shown, 12-801-08-E8 typical.

7. Locate and disconnect appropriate ECM connector (Figure 3, Item 1).

## Instructions (cont.)



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**Figure 4. Breakout Harness**

1. ECM cavity
2. Corresponding ECM connector
3. Breakout harness

**⚠ CAUTION:** To prevent damage to property or components, when removing and installing ECM connectors always connect appropriate connector to its designated cavity on the Electronic Control Module (ECM). ECM cavity location is clearly identified on each breakout harness label. Failure to connect properly will result in module or harness damage.

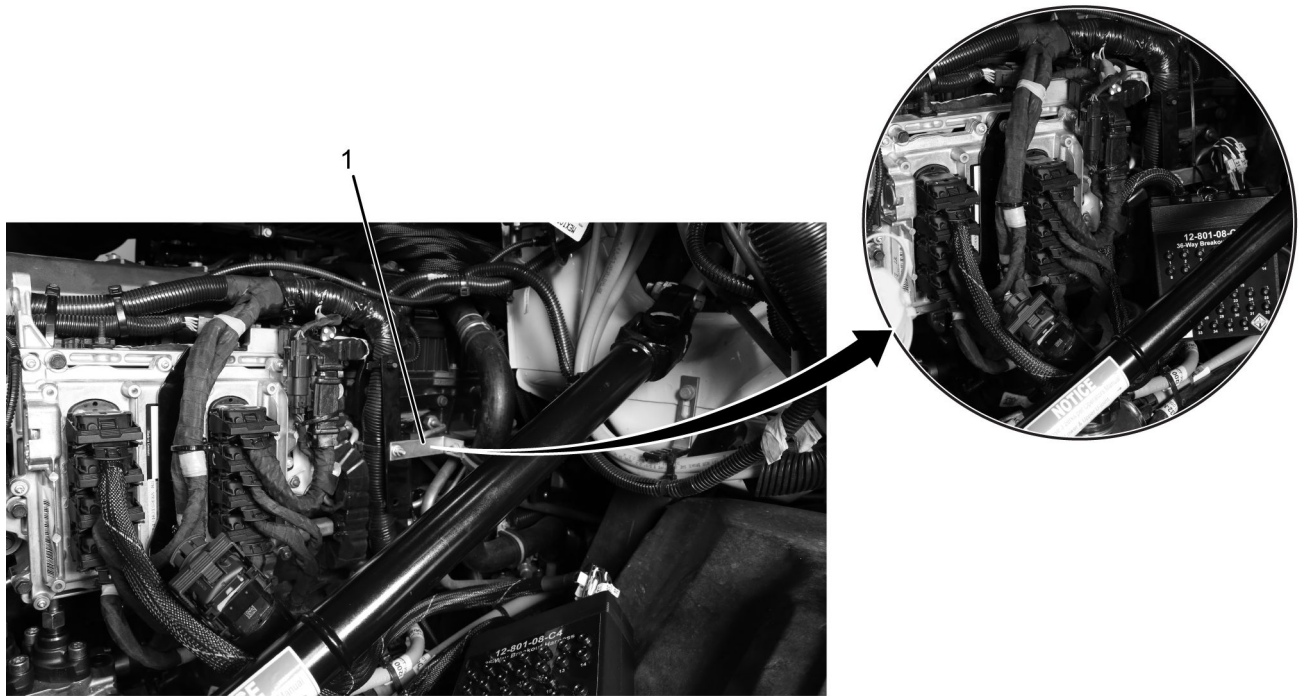
8. Connect breakout harness (Figure 4, Item 3) to appropriate ECM cavity (Figure 4, Item 1).

**NOTE:** If using breakout harness in conjunction with road testing, refer to Steps 10 and 11 prior to performing test.

**NOTE:** If using breakout harness in conjunction with an amp clamp, refer to Step 12 prior to performing test.

9. Connect corresponding ECM connector (Figure 4, Item 2) to breakout harness.

## Instructions (cont.)



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**Figure 5. Bracket Attachment for Road Test**

1. Bracket
  
10. Locate bracket (Figure 5, Item 1) on vehicle.
- ⚠ WARNING: To prevent personal injury and / or death, or damage to property, ALWAYS secure breakout harness components away from any moving parts.**
11. Using a cable tie wrap, attach breakout harness box to bracket through hook securely, away from any moving parts.

## Instructions (cont.)



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**Figure 6. Amp Clamp Connection**

**NOTE: 12-801-08-C4 Breakout Harness shown, 12-801-08-E8 typical.**

12. If using an amp clamp for testing, attach clamp to exposed insulated wires on breakout box (Figure 6).
13. Perform desired test procedure(s); refer to appropriate service / diagnostic manual for detailed instruction.
14. After desired test(s) is complete, ensure that ignition switch is in OFF position.

**⚠ CAUTION: To prevent damage to property or components, ensure that ignition switch is in OFF position for at least one minute before disconnecting any electrical connectors.**

15. Remove breakout harness, reconnect, and re-engage vehicle harness to appropriate ECM connector location.
16. If necessary, install cable ties to secure ECM wiring harness.
17. Remove wheel chocks.
18. Close and latch hood.



## Contact Information

If you would like to order additional tools or need replacement parts, please refer to the Navistar Service Tool Catalog. If you have questions, concerns, or feedback, please contact Navistar Service Tool Support Center:

- Submit a Service Tool iKNow Case File.
- Phone: 800-365-0088 (toll free).