Tool Instruction
ECM Programming Harness

4328787R1

Tool Number: 12-801-01-14

0000467641

Figure 1.   12-801-01-14 ECM Programming Harness

Purpose

The Engine Control Module (ECM) Programming Harness is used to reflash / reprogram the ECM.

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
	12-801-01-14	1	ECM Programming Harness
 0000160075	4328787R1	1	Tool Instruction

Additional Tools Required

When using ECM Programming Harness (12–801–01–14), the following additional tools are required:

- EZ-Tech® with 500K-compatible Interface Device (GREEN adapter)
- Control Module Programming Station (12-801-01-01)
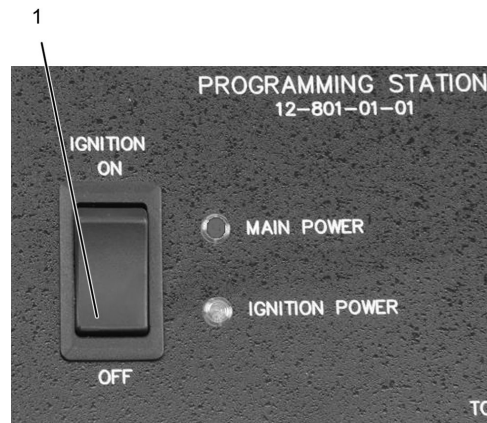- Service Diagnostic Solutions (SDS) Software

Instructions

NOTE: Please reference International® Service Portal℠ regarding any possible revisions to this document.

This procedure is divided into the following main tasks:

*   **Set Up Control Module Programming Station: Step 1–Step 5**
*   **Update Control Module Programming Station: Step 6**
*   **Disconnect Control Module Programming Station: Step 7–Step 13**

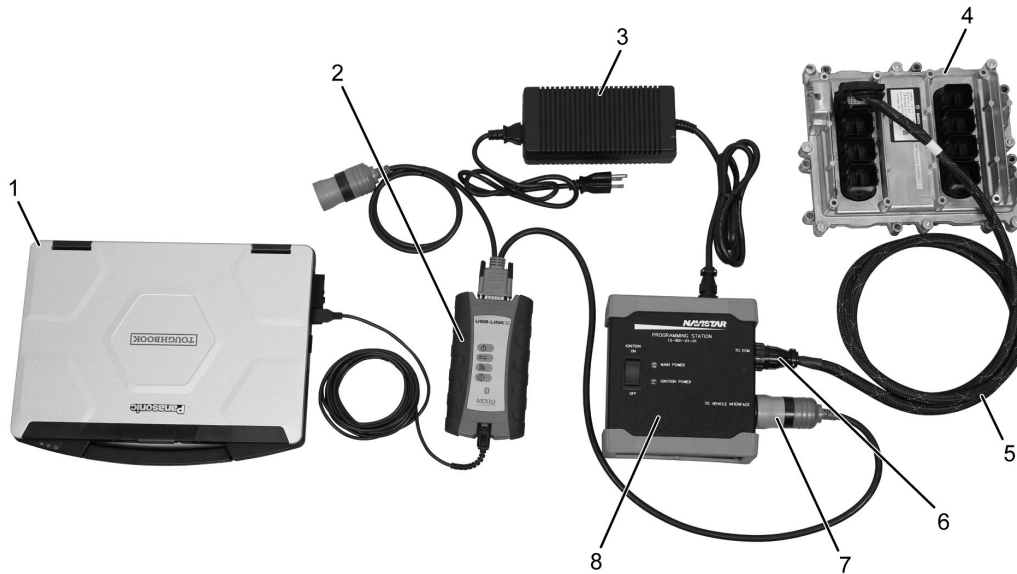**Set Up Control Module Programming Station**

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Figure 2.   Control Module Programming Station Ignition Switch

1.   Ignition switch OFF

Instructions (cont.)

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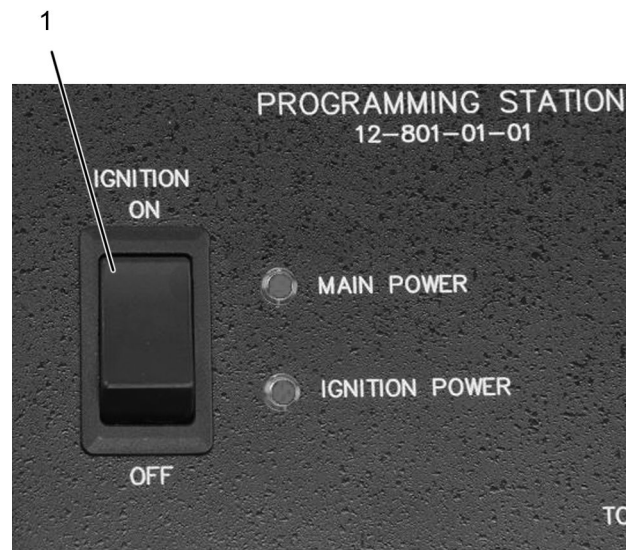**Figure 3. Control Module Programming Station Connections**

1. EZ-Tech®
2. Interface device
3. 12-volt power supply (12-801-01-08)
4. ECM

5. Control module programming station ECM port
6. Programming harness 12-801-01-04

7. Control module programming station vehicle interface port
8. Control module programming station (12-801-01-01)

1. Press ignition switch (Figure 2, Item 1) on Control Module Programming Station (12-801-01-01) to OFF.

2. Connect Control Module Programming Station (Figure 3, Item 8) using 12-volt power supply (Figure 3, Item 3) to an AC power source.

3. Connect ECM Programming Harness (Figure 3, Item 6) to Control Module Programming Station port labeled TO ECM (Figure 3, Item 5). Connect opposite end of harness to ECM (Figure 3, Item 4).

NOTE: GREEN adapter is needed for 500K compatibility.

4. Connect interface device (Figure 3, Item 2) to Control Module Programming Station port labeled TO VEHICLE INTERFACE (Figure 3, Item 7), and to EZ-Tech® (Figure 3, Item 1).

Instructions (cont.)

Figure 4.   Control Module Programming Station Ignition Switch

1.   Ignition switch ON

5.   Press ignition switch (Figure 4, Item 1) on Control Module Programming Station (12-801-01-01) to IGNITION ON.

Update Control Module Programming Station

Before updating the module using the Service Diagnostic Solutions (SDS) Software, make sure that all equipment is fully connected.

6.   Using SDS, update Control Module Programming Station.

Disconnect Control Module Programming Station

7.   After programming is complete, press ignition switch (Figure 2, Item 1) on Control Module Programming Station (12-801-01-01) to IGNITION OFF.

8.   Disconnect interface device (Figure 3, Item 2) from EZ-Tech® (Figure 3, Item 1).

9.   Disconnect interface device (Figure 3, Item 2) from Control Module Programming Station port labeled TO VEHICLE INTERFACE (Figure 3, Item 7). Store interface device for reuse.

10. Disconnect ECM Programming Harness (Figure 3, Item 6) from control module (Figure 3, Item 4).

11. Install ECM, if removed from vehicle (refer to appropriate service manual for detailed instructions).

12. Disconnect ECM Programming Harness (Figure 3, Item 6) from Control Module Programming Station port labeled TO ECM (Figure 3, Item 5). Store ECM Programming Harness (Figure 3, Item 6) for reuse.

13. Disconnect Control Module Programming Station (Figure 3, Item 8) from power source (Figure 3, Item 3).

Care and Maintenance

- Keep tools clean and free of contaminants

- Replace any damaged components

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).