

Tool Instruction PIM Programming Harness

4328864R1

Tool Number: 12-801-01-19



0000477748

Figure 1. PIM Programming Harness 12-801-01-19

Purpose

Essential tool used to reflash / reprogram the Powertrain Interface Module (PIM).

Application(s)

2024 International[®] S13 Integrated Powertrain, 2024 International[®] S13 Engine. Additional vehicle applications may apply.

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
 0000477747	12-801-01-19	1	PIM Programming Harness
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Additional Tools Required

When using PIM Programming Harness (12-801-01-19), the following additional tools are required:

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

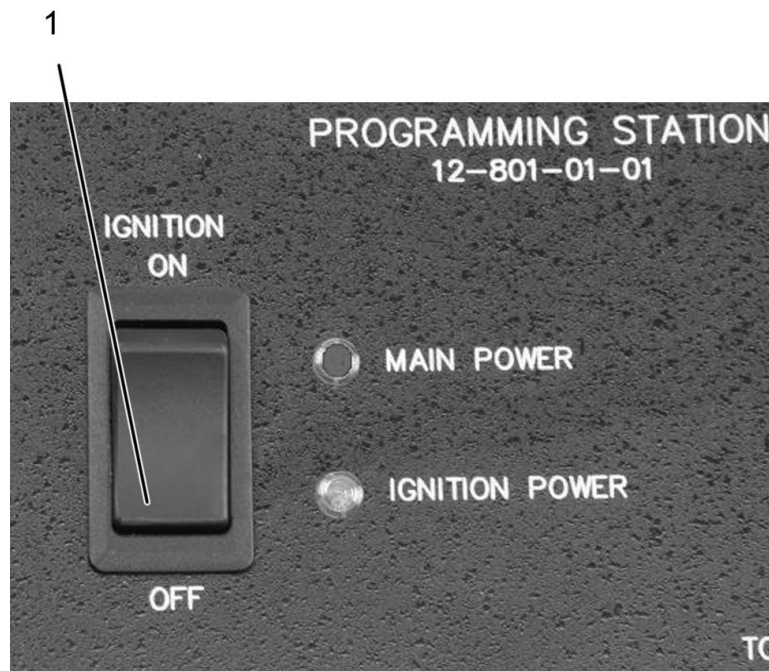
Instructions

NOTE: Please reference International® Service PortalSM 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

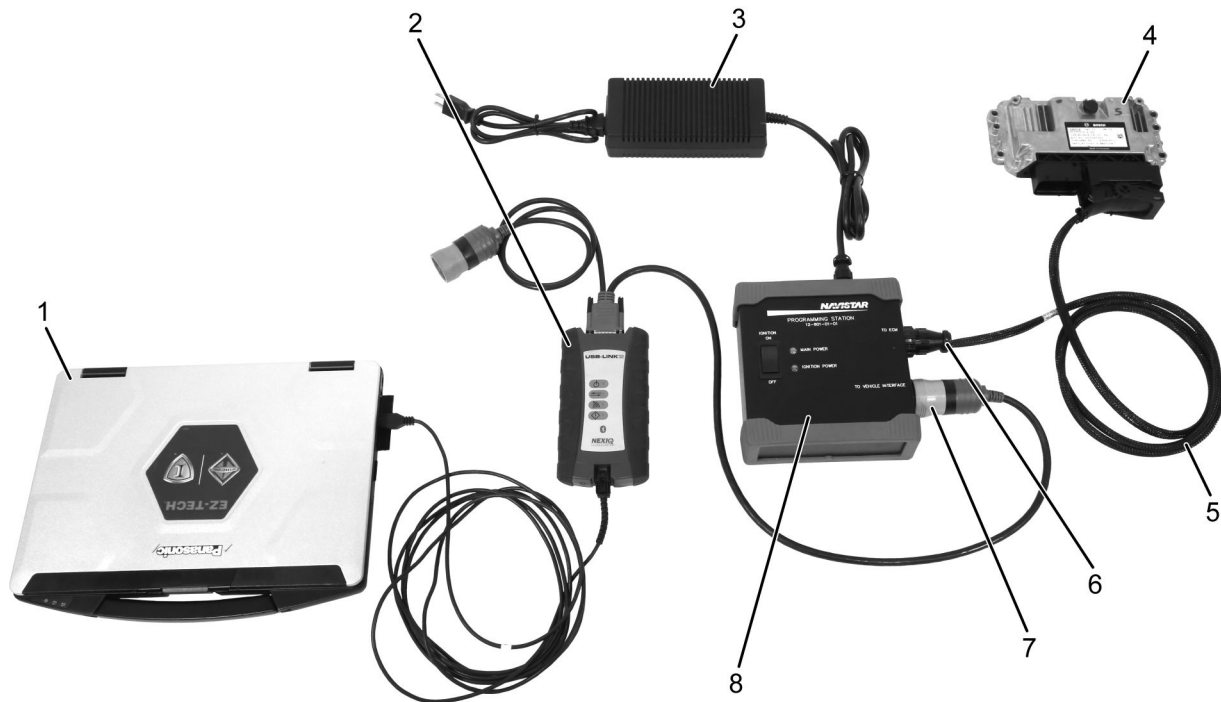


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Figure 2. Control Module Programming Station Ignition Switch

1. Ignition switch OFF

Instructions (cont.)



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Figure 3. Control Module Programming Station Connections

- | | | |
|-------------------------|-------------------------------|--------------------------------|
| 1. EZ-Tech® | 5. Programming harness | 7. Control module programming |
| 2. Interface device | 12-801-01-19 | station vehicle interface port |
| 3. 12-volt power supply | 6. Control module programming | 8. Control module programming |
| (12-801-01-08) | station ECM port | station (12-801-01-01) |
| 4. PIM | | |

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 Programming Harness (Figure 3, Item 5) to Control Module Programming Station port labeled TO ECM (Figure 3, Item 6).

Instructions (cont.)



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Figure 4. Programming harness 12-801-01-19 connected to PIM

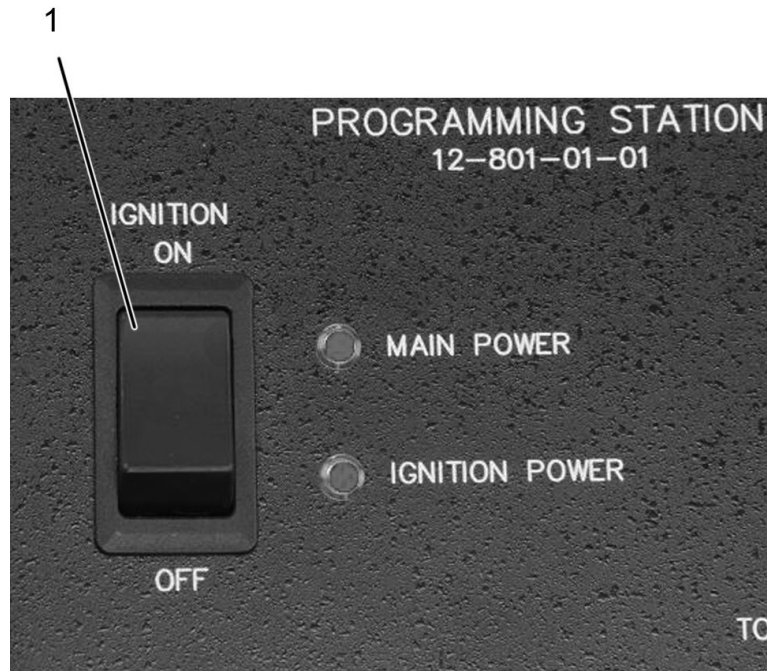
1. PIM
2. PIM Programming Harness
12-801-01-19

4. Connect opposite end of programming harness (Figure 4, Item 2) to PIM (Figure 4, Item 1).

NOTE: GREEN adapter is needed for 500K compatibility.

5. 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.)



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Figure 5. Control Module Programming Station Ignition Switch

1. Ignition switch ON
6. Press ignition switch (Figure 5, 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 Diagnostics Solutions (SDS) Software, ensure that all equipment is fully connected.

7. Using SDS, update Control Module Programming Station.

Disconnect Control Module Programming Station

8. After programming is complete, press ignition switch (Figure 2, Item 1) on Control Module Programming Station (12-801-01-01) to IGNITION OFF.
9. Disconnect interface device (Figure 3, Item 2) from EZ-Tech® (Figure 3, Item 1).
10. 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.
11. Disconnect PIM Programming Harness (Figure 3, Item 5) from control module (Figure 3, Item 4).
12. Install PIM, if removed from vehicle (refer to appropriate service manual for detailed instructions).
13. Disconnect ECM Programming Harness (Figure 3, Item 5) from Control Module Programming Station port labeled TO ECM (Figure 3, Item 6). Store PIM Programming Harness (Figure 3, Item 5) for reuse.

Instructions (cont.)

14. 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).