

Tool Instruction Control Module Programming Station

4328103R1

Tool Number: 12-801-01 and 12-801-02 (Medium Duty Only)



0000047289

Figure 1. Control Module Programming Station.

Purpose

Control Module Programming Station 12-801-01 and 12-801-02 (medium duty only) has been developed for greater flexibility with control module programming. This kit covers multiple engine control modules (ECMs) and allows programming of modules on the bench or on-vehicle if there is difficulty programming through the chassis 9-pin connector.

Application(s)

MaxxForce[®] 7 Diesel Engines, EPA 10

MaxxForce[®] 11 and 13 Diesel Engines, EPA 10

Application(s) (cont.)

MaxxForce® 15 Diesel Engines, EPA 10

MaxxForce® DT, 9, and 10 Diesel, EPA 10

MaxxForce® 5 and 7 Diesel Engines, EPA 07

MaxxForce® 11 and 13 Diesel Engines, EPA 07

MaxxForce® DT, 9, and 10 Diesel Engines, EPA 07

DT, 466, 570, VT365, and VT275

DT, 466E, 530E, and T444E



GOVERNMENT REGULATION: Engine fluids (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluids and other contaminated materials (such as filters or rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.



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

! 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 either direction.

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








Tool Contents

Table 1 Control Module Programming Station

Image	Tool Number	Qty	Description
 <p>0000047124</p>	12-801-01-01	1	Control Module Programming Station
 <p>0000047135</p>	12-801-01-02 (Heavy Duty Only)	1	2010 MaxxForce® 11, 13, and 15 Harness




Tool Contents (cont.)

Table 1. Control Module Programming Station (cont.)

Image	Tool Number	Qty	Description
 <p>0000047134</p>	12-801-01-03	1	2010 MaxxForce® 7 Harness
 <p>0000047126</p>	12-801-01-04	1	2007-2010 MaxxForce® DT, 9, and 10 and MaxxForce® 5 and 7, EPA 07 Harness
 <p>0000047123</p>	12-801-01-05 (Heavy Duty Only)	1	2007-2009 MaxxForce® 11 and 13 Harness
 <p>0000047127</p>	12-801-01-06	1	DT, 466, 570, VT365, and VT275 Harness
 <p>0000047125</p>	12-801-01-07	1	DT, 466E, 530, and T444E Harness
 <p>0000047132</p>	12-801-01-08	1	12-Volt Power Supply
 <p>0000047130</p>	12-801-01-09	1	Auxiliary Power Adapter

Tool Contents (cont.)

Table 1. Control Module Programming Station (cont.)

Image	Tool Number	Qty	Description
 <p>0000047131</p>	12-801-01-10	1	Battery Terminal Power Adapter
 <p>0000047133</p>	12-801-01-11	1	Storage Bag
 <p>0000047129</p>	4328103R1	1	Instruction Sheet

Additional Tools Required

When using Control Module Programming Station 12-801-01 and 12-801-02 (medium duty only), one of the following additional tools will also be required:

- EZ-Tech™ with Interface Cable (Nexiq SKU 125032 or equivalent)
- PC with Interface Cable (Nexiq SKU 125032 or equivalent)
- PocketMaxx™

Programming Software Guidelines

NETS software - new modules and recalibration

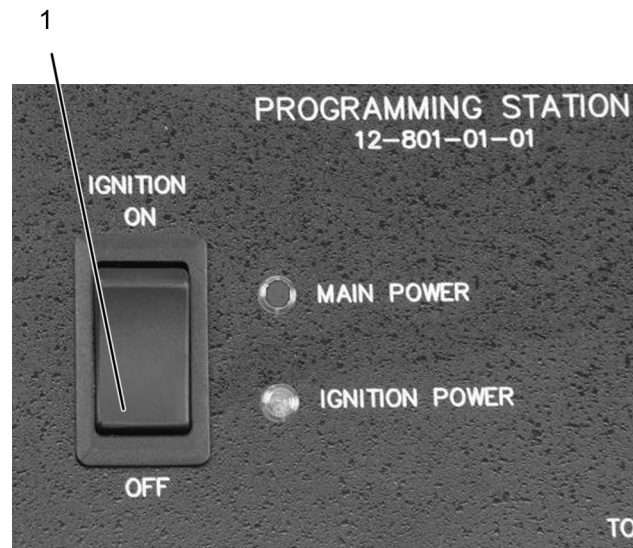
PocketMaxx™ - recalibration

Auto Upgrade - recalibration

Instructions

Control Module Programming Station Setup

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

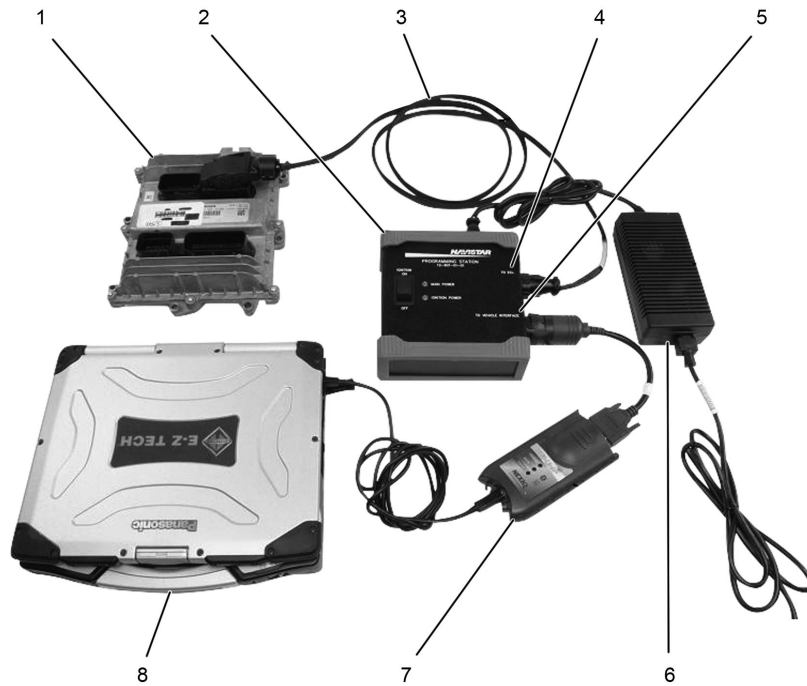


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Figure 2. Control Module Programming Station Ignition Switch OFF.

1. Ignition switch OFF

Instructions (cont.)

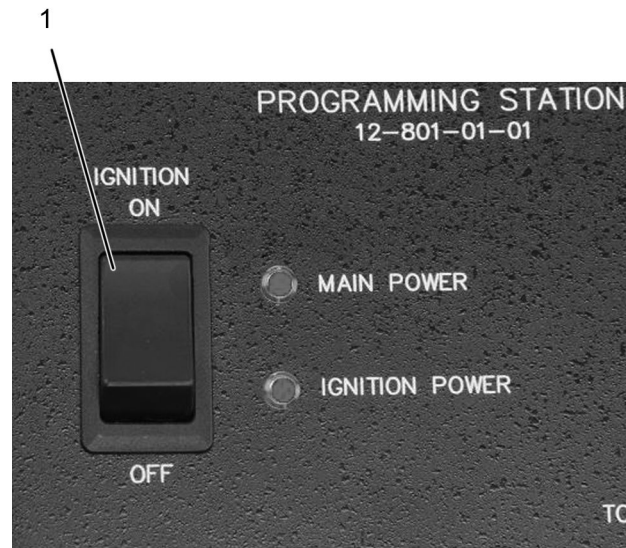


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Figure 3. Control Module Programming Station Connections.

1. ECM
 2. Control Module Programming Station 12-801-01-01
 3. Engine programming harness
 4. Control Module Programming Station ECM Port
 5. Control Module Programming Station VEHICLE INTERFACE Port
 6. 12-Volt Power Supply 12-801-01-08
 7. Interface device
 8. Software device (laptop)
-
2. Connect the Control Module Programming Station 12-801-01-01 (Figure 3, Item 2) to power using 12-Volt Power Supply 12-801-01-08 (Figure 3, Item 6) to an AC power source or Auxiliary Power Adapter 12-801-01-09 to a vehicle power port or to battery using Battery Terminal Power Adapter 12-801-01-10.
 3. Using applicable engine programming harness (Figure 3, Item 3), connect to Control Module Programming Station 12-801-01-01 port labeled TO ECM (Figure 3, Item 4). Connect opposite end of harness to control module that requires programming (Figure 3, Item 1).
 4. Connect interface device (Nexiq SKU 125032 shown; Figure 3, Item 7) to Control Module Programming Station 12-801-01-01 port labeled TO VEHICLE INTERFACE (Figure 3, Item 5), and to device containing desired software (Figure 3, Item 8).

Instructions (cont.)



0000047108

Figure 4. Control Module Programming Station Ignition Switch ON.

1. Ignition switch ON
5. Turn power switch on Control Module Programming Station 12-801-01-01 to ON (Figure 4, Item 1).

Programming Modules

6. After connecting Control Module Programming station 12-801-01-01 to ECM, NETS, Auto Upgrade, or PocketMaxx™ can be used to update module.

NETS

NOTE: NETS can be used to program a module on the truck or a replacement module on the bench and requires internet access.

- NETS can be used to update calibration, change parameters, or replace module.
 - A. Launch NETS.
 - B. Under SETTINGS, select proper interface device.
 - C. GET: Enter last 8 digits of VIN (mileage, fuel used, and engine hours when replacing or blanking module only) (module or vehicle connection required; Internet connection not required).
 - D. SEND: Select current chassis and SEND and wait 2 minutes (Internet connection required; module or vehicle connection not required).
 - E. Receive: Select chassis and receive (Internet connection required; module or vehicle connection not required).
 - F. Make sure all equipment is connected.
 - G. Program: Select chassis, click Program, and follow prompts (module or vehicle connection required; Internet connection not required).

Instructions (cont.)

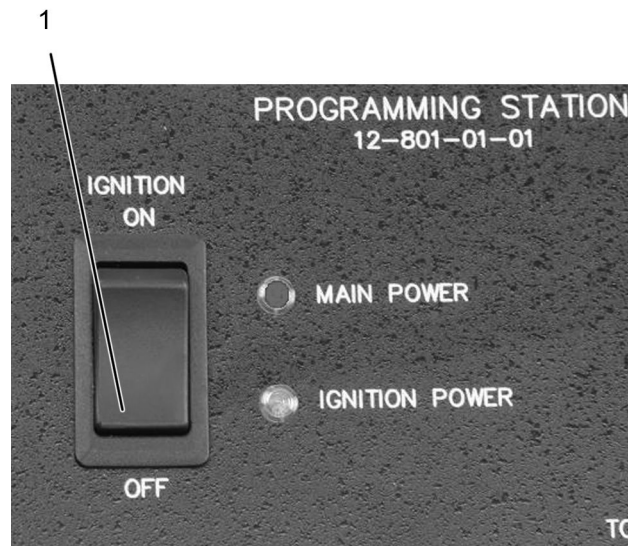
- For further instruction on the use of NETS, refer to IK2600010 - NETS Programming and Troubleshooting Guide.

Auto Upgrade:

- Auto Upgrade can be used to update module calibration (requires Internet access every 72 hours or 75 vehicles).
 - A. Launch Auto Upgrade (Internet connection required).
 - B. Select interface cable.
 - C. Start Auto Upgrade and follow prompts.
- For further information about Auto Upgrade, refer to IK2600082 - Auto Upgrade Programming Instructions.

PocketMaxx™:

- PocketMaxx™ can be used to update calibration and change parameters (requires Internet access every 72 hours or 75 vehicles).
 - A. Connect PocketMaxx™ to programming station and wait for initial scan.
 - B. If an update is available, it will show Not Current.
 - C. Click on Not Current or go to Update Engine and follow prompts.
- For further information about PocketMaxx™, refer to IK3300001 - Updating Engine Calibrations with PocketMaxx™.



0000047110

Figure 5. Control Module Programming Station Ignition Switch OFF.

1. Ignition switch OFF

Instructions (cont.)

7. Once programming is complete, make sure ignition switch on Control Module Programming Station 12-801-01-01 is OFF (Figure 5, Item 1).

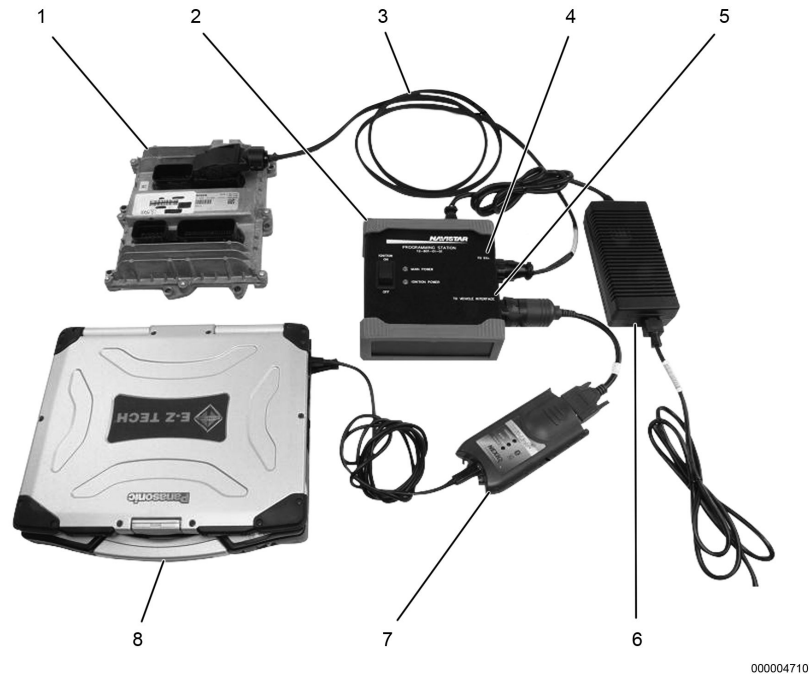


Figure 6. Control Module Programming Station Connections.

1. ECM
 2. Control Module Programming Station 12-801-01-01
 3. Engine harness
 4. Control Module Programming Station ECM port
 5. 12-Volt Power Supply 12-801-01-08
 6. Control Module Programming Station VEHICLE INTERFACE port
 7. Interface device
 8. Software device (laptop)
8. Disconnect interface device (Nexiq SKU 125032 shown; Figure 6, Item 7) from software device (Figure 6, Item 8).
 9. Disconnect interface device (Nexiq SKU 125032 shown; Figure 6, Item 7) from Control Module Programming Station 12-801-01-01 port labeled TO VEHICLE INTERFACE (Figure 6, Item 6). Store interface device for reuse.
 10. Disconnect engine harness (Figure 6, Item 3) from control module (Figure 6, Item 1).
 11. Install control module, if removed from vehicle (refer to appropriate service manual).
 12. Disconnect engine harness (Figure 6, Item 3) from Control Module Programming Station 12-801-01-01 port labeled TO ECM (Figure 6, Item 4). Store engine harness (Figure 6, Item 3) for reuse.
 13. Disconnect Control Module Programming Station 12-801-01-01 (Figure 6, Item 2) from power source (Figure 6, Item 5).

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).