



Aftertreatment Control Module (ACM) Offline/Not Visible/Missing From Control Unit Information in Premium Tech Tool (PTT) - US10+OBD13 And Newer Emissions



> Internal Content

A. When replacing an ACM, always use Replace Hardware, operation 1700-22-03-12.

B. Review the DTC Readout for communications codes that may indicate a data link problem.

C. Ensure that there are no voltage or resistance issues with power and ground to the module.

- Ensure that there are at least 12 volts present on ACM pin 3 with Key On.

D. Unplug the ACM. Allow the chassis to sit with key on, engine off for 5 minutes. Reconnect the ACM **without turning the key off**.

E. Make sure that the ACM is compatible with the truck.

- OBD13 to OBD15 (Model Years 2014 to 2016) have two compatible modules:

- **21870087**
- **22449432**

- OBD16 and newer is only compatible with one module:

- **22449432**

F. Make sure to disconnect any third party devices (GPS, QUALCOMM etc.) that are connected anywhere to the data link, possibly on the diagnostic connector (back side).

G. Make sure Tech Tool is at version 2.5.87 or newer. Tech Tool databases are up to date (when in doubt use the Update Product Information function).



H. Remove the fuses for the TGW and ABS modules. This should only

be required if there are issues with programming a module for the first time. Follow the procedure in Step H to ensure PTT has to re-identify the vehicle.

I. If the original ACM is not visible in Tech Tool, make sure to do the following steps to clean the history of the truck inside tech tool:

1. Disconnect from the truck and then remove the truck from the latest selections list.
2. Exit out of PTT.
3. Using the Tech Tool Log Manager, stop the BAF services, clean up all log files and then start the BAF services.
4. Restart PTT and connect to the truck.

J. If the ACM is still not visible, start an eService case for further assistance. **The case must include:**

- A complete DTC Readout from the time of the truck's arrival.
- A thorough description of all tests performed with results and numeric values noted ("Good" is not a value).
- Screenshots of any errors encountered while attempting to program.

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ProductProduct HistoryDiagnoseTestCalibrateProgramImpact

Program

Select an operation and click Start

1700-08-03-39 Program Electronic Control Unit

1700-22-03-03 Parameter, programming

1700-22-03-02 System Date and Time

1700-22-03-06 Accessory Kit

1700-22-03-11 Campaign

1700-22-03-12 Replace Hardware

1700-22-03-13 Program with Stored Software

1700-08-03-40 Handle Component

1700-22-03-14 Synchronize electronic control unit data

3810-22-03-10 Change Language

3837-22-03-01 Odometer programming

1700-22-03-12 Replace Hardware

It is not possible to run this operation in simulated mode

Description

Use this operation to replace an Electronic Control Unit and its connected sub hardware. Sub hardware can be replaced without replacing the control unit.

All transferable parameter values will be read from the old Electronic Control Unit before it is replaced and written back after the installation.

Note: The old Electronic Control Unit must stay connected to the product until the parameters have been read out before replacing it with the new one.

Note: It may be necessary to perform calibrations after an Electronic Control Unit has been programmed.

Start >

Chassis ID: M748 37585VIN: 1M2AX07C9JM037585Work Order: 9999

ProductOnline

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