

Solution K43056254 Monday, June 3, 2019 6:04:14 PM CEST

** SOLUTION **

Title	Aftertreatment Control Module (ACM) Offline / Not Visible / Missing From Control Unit Information in Premium Tech Tool (PTT) - US10 And Newer Emissions
Mack Models	
Mack Model	LEU, LR, MRU - TerraPro, CHU - Pinnacle, Axle back, CXU - Pinnacle, Axle front, GU - Granite, TD - Titan
Volvo Models	
Volvo Model	VN, VNL, VNM, VNR, VNX, VAH, VHD, VT
Emission Standard	
Emission Standard	US10+OBD13, US14+OBD15, US14+OBD16, US17+OBD16, US17+OBD18, U S17+OBD19
Engine family	
Engine family	11L Engine, 13L Engine, 16L Engine, MP7, MP8, MP10
** SOLUTION **	
Cause	When connecting to a chassis for diagnosis or programming, the ACM may not be visible. This is not an immediate indication of a failed module. Most ACMs replaced for this issue are found to be in working condition during failure analysis.
Solution	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

	Technical Support Services after they have been contacted and a case opened.
	5. If " ONLY " the ACM is still not visible, the new ACM will need to be sent to
	4. Program ACM using TT2.
	3. Connect 62PIN connector at the ACM.
	2. Eliminate J1939 communication by using either of the procedures attached <u>here.</u>
	1. Disconnect 62 PIN connector at the ACM
internal comments (BO)	Before shipping the pre-programmed ACM, the following steps can be performed to allo w the programming of the ACM.
	Screenshots of any errors encoutered while attempting to program.
	numeric values noted ("Good" is not a value).
	• A thorough description of all tests performed with results and
	A complete DTC Readout from the time of the truck's arrival.
	J. If the ACM is still not visible, start an eService case for further assistance. The case
	4. Kestart P11 and connect to the truck.
	files and then start the BAF services.
	3. Using the Tech Tool Log Manager, stop the BAF services, clean up all log
	2. Exit out of PTT.
	selections list.
	1. Disconnect from the truck and then remove the truck from the latest
	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:
	Step H to ensure PTT has to re-identify the vehicle.
	there are issues with programming a module for the first time. Follow the procedure in
	H. Remove the fuses for the TGW and ABS modules. This should only be required if
	date (when in doubt use the Opdate Froduct information function).
	data (when in doubt use the Undate Product Information function)

Function affected	210 ACM, Diagnostic tool
Function Group	
Function Group	258 emissions after-treatment , 2841 Electronic Control Unit
Customer effect	
Main customer effect	calibration/programming/pairing/missing operation, diagnostics/methodology

Conditions

Vehicle operating mode	when stationary
Administration	
Author	ut01793
Last modified by	A241298
Creation date	29-11-2016 15:11
Date of last update	22-05-2019 17:05
Review date	15-02-2017 00:02
Status	Published
NA_Author_Group	GTT