

Solution K00736232 Thursday, June 7, 2018 9:44:51 PM CEST

Volvo Models

Volvo Model	VNX, VNL, VNM, VHD, VAH
Engine family	
Engine family	Volvo
Emission Standard	
Emission Standard	OBD2017, US17 GHG, US16, US15, US10, US13 OBD, US14 GHG
** SOLUTION **	
Title	Volvo Chassis - Telematics Gateway (TGW, MID 142) Communication Loss With Instrument Cluster (IC); "Volvo Link Hardware Failure Use Paper Log" Displayed In Driver Information Display; Counts Of Fault Code MID 140 PSID 239 FMI 12 Data Link, Volvo Link Possible Following Engine Start; TGW Possibly Missing From Product Information In Premium Tech Tool - US10+OBD13 Through US17+OBD16 Emissions With TGW1 Or TGW2, Prior To 2018 Facelift ONLY
Cause	Volvo Link Hardware Failure Use Paper Logs may appear on the DID or counts of MID 140 PSID 239 FMI 12 may log in chassis equipped with telematics modules. The code and message may appear together or independently.
Solution	Verify the chassis emissions level first.

- Details can be found in the Product Details box on the Product tab in PTT as seen below:



Repair

- US10+OBD13 and Certain US14+OBD13 (TGW1):

Chassis built commonly from late Model Year 2013 through the beginning of Model Year 2015 utilized the first generation Telematics Gateway, TGW1. First-gen TGWs utilized 2G cellular technology, which at the time of introduction had been in use by all cellular providers for several years. AT&T, the service provider for all TGWs, shut down its 2G networks at the beginning of 2017. Other US providers are currently moving to follow suit. With the shutdown of 2G networks, TGW1s ceased broadcasting.

- It is not possible to replace a TGW1 with a TGW2. If a chassis is having issues with a TGW1, it needs to be removed from the system.

- If "Volvo Link Failure Use Paper Log" is displayed in the DID and/or MID 140 PSID 239 FMI 12 is logging regularly:

1. Using Premium Tech Tool (PTT), use Operation 1700-22-03-06 Accessory Kit u nder the Program tab to run Accessory Kit 85151006.

2. Run PTT Operation 1700-08-03-39 Program Electronic Control Unit and program the Information Display (MID 140).

- 3. Remove Fuse F13.
- 4. Remove the harness connector from the TGW.
- 5. Check operation.

- US14+OBD13 And US14+OBD15 (TGW2)

- 1. Refer to Tech Tip TT-001-2017 FIRST and ensure software is correct as specified.
 - This Tech Tip covers situations where the TGW is showing a Product Data mismatch or is not present in the Product Information in PTT.
 - **NOTE:** The key cycle operation described in the Tech Tip may need to be repeated multiple times before the module properly powers up.
 - Because this issue can be related to battery voltage during cranking, battery connections and grounds should be ensured clean and tight. Batteries should be tested and verified to be in good condition.
- 2. Once all of the above information is reviewed and verified:

A. Using Premium Tech Tool (PTT), use Operation 1700-22-03-06 Accessory Kit under the Program tab to run Accessory Kit 85152126.

B. Run PTT Operation 1700-08-03-39 Program Electronic Control Unit and program the Information Display (MID 140).

C. Check operation.

- US14+OBD16 And US17+OBD16 PRIOR TO 2018 Facelift (TGW2)

1. Because this issue can be related to battery voltage during cranking, battery connections and grounds should be ensured clean and tight. Batteries should be tested and verified to be in good condition.

2. Once batteries and connections are verified:

A. Using Premium Tech Tool (PTT), use Operation 1700-22-03-06 Accessory Kit under the Program tab to run Accessory Kit 85152126.

B. Run PTT Operation 1700-08-03-39 Program Electronic Control Unit and

- program the Information Display (MID 140).
- C. Check operation.

- US17+OBD16 AFTER 2018 Facelift

• The issues described above do not occur in GHG17 and newer chassis built with

updated components from the 2018 facelift. If MID 140 PSID 239 FMI 12 or the Hardware Failure message is occurring, normal diagnostic procedures should be followed.

Solution visibility	Dealer distribution	
Function(s)/component(s) affected		
Function affected	TT , 12 1 0 TGW2 , MID 140 – IC04 / IC05 , MID 142 – RAL , Diagnostic tool	
Function Group		
Function Group	365 entire vehicle control system, 397 mobile data services, 398 telematics systems	
Customer effect		
Main customer effect	calibration/programming/pairing/missing operation, diagnostics/methodology, efficien cy/abnormal behavior, fault code/display	
Lights/Messages on information display	message on display	
Fault code(s)		
NA_MIDs	MID 140 PSID 239 FMI 12, MID 142	
Conditions		
Vehicle operating mode	on start-up, when driving, when stationary	
Frequency of occurrence of problem	always	
Administration		
Author	a241298	
Last modified by	RU4469V	
Creation date	23-01-2017 14:01	
Date of last update	24-05-2018 17:05	
Status	Published	
Average score	0	
Number of scores	2	