

Technical Journal

TITLE:

DIM message and DTC VCU1 U016800

REF NO: TJ 36318.5.0	ISSUING DEPARTMENT: Technical Service	CAR MARKET: United States and Canada	
PARTNER: 3 US 7510 Volvo Car USA		ISSUE DATE: 2022-10-29	STATUS DATE: 2023-01-06
FUNC GROUP: 3872	FUNC DESC: Collision avoidance	Page 1 of 4	

“Right first time in Time”

Attachment

File Name	File Size
TJ_36318.jpg	0.1230 MB

Rows beginning with * are modified

Note! If using a printed copy of this Technical Journal, first check for the latest online version.

DESCRIPTION:

* updated Vehicle Type overview

DIM = Driver Information Module
 VCU = Vehicle Computational Unit
 CEM = Central Electronics Module

If you have a DIM message together with DTC's: VCU1 U016800 and CEM U110082.

Please follow instructions under “Service”.

CSC Customer Symptom Codes

Code	Description
1R	Front monitoring/Active safety/Lane Departure Warning does not work
1X	Front monitoring/Active safety/Adaptive cruise control does not work
IV	Text window and warning symbol/Text message
1T	Warning lights and chimes/Front monitoring/Active safety indication/no indication

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DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
VCU1	U016800	Permanent
VCU1	U016800	Intermittent
CEM	U110082	Intermittent
CEM	U110082	Permanent

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224							2023-9999		-	202222-999952
225							2023-9999		-	202222-999952
227							2023-9999		-	202222-999952
235							2022-9999		-	202122-999952
236							2022-9999		-	202122-999952
238							2022-9999		-	202122-999952
246							2022-9999		-	202122-999952
256							2023-9999		-	202222-999952
536							2021-9999		-	202037-999952
539							2022-9999		-	202139-999952

SERVICE:

ASDM = Active Safety Domain Master

Connect VIDA to read-out the car. If you find the ASDM “not responding” together with both DTC’s VCU1 U016800 and CEM U110082:

- 1) Go to “Software Installation” -> “Advanced test” (see attachment)
- 2) Remove power fuse(s) to the ASDM module.
- 3) Click on “Enable Programming Mode”
- 4) Insert ASDM fuse(s) again
- 5) Try to read out hardware number and serial number of the ASDM module.
- 6a) If Hardware and Serial number can successfully be read: Close the window by clicking on the cross so that the programming mode remains on
- 7a) Reload the ASDM module with VIDA

6b) If the ASDM Hardware number and Serial number were not read -> repeat steps 2 to 5
Note: Please try at least 8 times

If the steps above were unsuccessful in recovering the ASDM, you may replace the ASDM.

Analysis is ongoing how to prevent these DTC’s from being incorrectly triggered.

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Warranty claim info:

To get warranty claim accepted for a job described in this TJ, please use following data:

* In case you were able to recover the ASDM

ONLY use VST OP number: 99928-2

Note: TJ number must be stated in repair order text!

* In case the ASDM needed to be replaced:

ONLY use VST OP number: 37225-2

Note: TJ number must be stated in repair order text!

VST Operation Number

VST Operation Number	Description
37225-2	Active Safety Domain Master (ASDM) replace (incl. calibration)
99928-2	General reimbursement to TJ

VEHICLE REPORT:

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect. Use concern area "Vehicle Report" and sub concern area "Support Needed", use function group 3872.

To view TJ attachment continue to next page. This TJ has one attachment.

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The screenshot displays a diagnostic software interface with the following elements:

- Navigation Bar:** Home, XC60 (18-), 2022, I4204T56, TG-815D, Planning & Diagnostics, **Software Installation**, Information, Service Journals.
- Vehicle Information:** Model/Year/Chassis: XC60 (18-), 2022, 019084. Connection: Virtual #1, 81% Active.
- Software Installation Section:** Available Installations, Order History, Order for Independent Dealer. Includes tabs for Work List, Upgrades, Hardware Changes, Function Changes, and All. A message states: "No software information found."
- Advanced Test Dialog:** A modal window titled "Advanced Test" with a close button. It contains:
 - Control unit connection:** A section with "Existing ECUs" and "All ECUs" tabs. A table lists ECUs with columns for Name and Mode. The "Enable Programming Mode" button is highlighted with a red box. A "Reset" button is also present. Below the table are input fields for "Hardware No." and "Serial No.".
 - Information:** A blue box with a warning icon: "Click on the 'Enable Programming Mode' to test communication with control units."
 - VIN Reading:** A section with a text input field and a "Read VIN" button.
 - PIE Connection:** A section with a "Test PIE Connection" button.
- Advanced Test Button:** A button labeled "Advanced Test" is highlighted with a red box in the top right corner of the main interface.
- Reference:** A red box containing the text "TJ 36318" is located in the bottom right area of the screenshot.