VOLVO CAR SERVICE AND PARTS BUSINESS



Technical Journal

TITLE: 12V battery message, Start/Stop unavailable, DTCs CEM-B129F96, CEM-B10A613

REF NO:	ISSUING DEPARTMENT:		ARKET:
TJ 34241.2.1	Technical Service		s and Canada
3 US 7	PARTNER:	ISSUE DATE:	STATUS DATE:
	510 Volvo Car USA	2020-08-13	2020-08-27
FUNC GROUP: 3300	FUNC DESC: Starting system		1 of 4

"Right first time in Time"

Attachment

File Name	File Size
TJ 34241_BCSM.jpg	0.1298 MB

Vehicle Type

Туре	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
22X						2019-9999		-	201817-999952
23X						2017-9999		-	201617-999952
246						2018-9999		-	201717-999952
256						2016-9999		-	201552-999952

CSC Customer Symptom Codes

Code	Description			
3M	Driving/Automatic start/stop of engine/Does not work			
3N	Idling/Automatic start/stop of engine/Does not work			
LN	Battery/Weak or low electrical power			
LO	Alternator and charge regulator/Power supply problems			



VST Operation Number

VST Operation Number	Description			
36001-2	Diagnostic trouble codes read / reset / known Diagnostic trouble codes with VIDA			
31106-2	Battery charging			
31116-3	Battery, connection and disconnection			

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
CEM	B129F96	Permanent
CEM	B10A613	Permanent

Rows beginning with * are modified

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

DESCRIPTION:

* This TJ has been re-written in its entirety

DIM = Driver Information Module CEM = Central Electronic Module BCSM = Battery Control Switch Module

Customer concern: DIM message "12V battery charge fault" with permanent DTC CEM - B129F96

Auto Start/Stop may also be unavailable along with DTC CEM - B10A613 that will not clear

If either or both symptoms are present, follow the instructions under Service.

SERVICE:

To clear the listed DTCs, the system must be completely reset:

- Ensure that the main battery is charged and the alternator is charging.
 - Use the VIDA Diagnostic Sequence/Service Function: 12V Overview
- Check the voltage of the support battery and charge it if necessary,
 If less than 11 volts, it must be removed from the vehicle and slow-charged for 8 hours/overnight.
- Perform battery reset as described below

Battery Reset

- Disconnect the negative cable on the main battery
- Remove the lower connector ("S") on the BCSM (See attachment).
- Wait at least 15 minutes
- Reconnect the BCSM and main battery
- Erase all DTC's.

This will reset the BCSM and the internal flash memory.

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If the DTC(s) still will not clear after 15 minutes, perform the reset again for a longer period of time (up to 1 hour may be necessary).

Once DTC(s) are clear, road test the vehicle to ensure that the Auto Start/Stop sequences are working as intended and are repeatable. If the DTC(s) do not reoccur, the vehicle is OK.

If DTCs return, please follow the instructions under Vehicle Report.

NOTE: Auto Start/Stop may be unavailable due to normal circumstances as well. Be sure to review the conditions necessary for Start/Stop to function located in VIDA under *Product Specifications > Design* and Function > Function 28, "Powertrain: Start/Stop"

Warranty claim info:

To get warranty claim accepted for a job described in this TJ, please use following data: VST OP number: 36001-2/31106-2/31116-3 + applicable CSC.

VEHICLE REPORT:

Yes, please submit a TIE 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 3300 and title the report with "BCSM TJ 34241".

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

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