



Technical Journal

TITLE:

Low Battery message in DIM

REF NO:
TJ 31220.1.4

ISSUING DEPARTMENT:
Technical Service

CAR MARKET:
United States and Canada

PARTNER:
3 US 7510 Volvo Cars North America

ISSUE DATE:
2016-05-16

STATUS DATE:
2016-12-06

FUNC GROUP:
3110

FUNC DESC:
Battery

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“Right first time in Time”

Attachment

File Name	File Size
Standby_Current_Instructions.pdf	0.0358 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
234							2017-2017		-	0-0
256							2016-2017		-	0-0

CSC Customer Symptom Codes

Code	Description
7B	Starting/Engine does not start/Engine does not turn/No clicking sound at start attempt
BJ	Starting/Engine does not start/Unsure when/at all times
LM	Battery/Dead battery
LN	Battery/Weak or low electrical power
6J	Text window and warning symbol/Low battery
IV	Text window and warning symbol/Text message

VST Operation Number

VST Operation Number	Description
96166-2	Troubleshooting Battery
31106-2	Battery Charging
31122-2	Battery Condition Check



DTC Diagnostic Trouble Codes

Rows beginning with * are modified

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

Text

DESCRIPTION:

Follow the Service instructions below for customer complaints of a Low Battery message displayed in the DIM (Driver Information Module).

SERVICE:

- Read out car with VIDA and address any other customer symptoms or concerns first.
- Confirm that all software is latest status. *Software released on May 9th 2016 includes improvements which reduce unnecessary current draws and false warning.
- Check main battery with VIDA.
- Check alternator with VIDA.
- Ensure that no additional ignition key(s) such as the waterproof Sport Key has been left in the vehicle.
- Check standby current according to <https://youtube/p5Wa2iU-n7U>
(This film is Unlisted and can only be accessed via the link)
- Ensure that the battery has at least an 85% SoC (State of Charge) according to the CEM (Central Electronic Module) parameter before releasing vehicle to customer.

Note: The vehicle should reach Abandoned Mode after:

- 15 minutes if vehicle is locked.
- 30 minutes if vehicle is not locked.
- 60 minutes if vehicle is not locked and an ignition key is left in the vehicle.

Once Abandoned Mode is reached, typical standby current is approximately 10mA. Up to 50mA is acceptable.

VEHICLE REPORT:

Submit a Vehicle Report if assistance is needed.

Record standby current with Vantage scope according to attached instructions.

Attach the recording to the report.

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

Recording, Viewing & Transferring Standby Current with Vantage Pro Scope

Basic Settings:

Insert the positive lead in the 10A port.
Insert the negative lead in the COM port.
Choose Utilities.
Choose Tool Setup.
Choose save Data.
Set Movie Size to Max.
Set % After Trigger to 90.
Set Save To to CF1
Set date.
Set time.

Graphing Meter Settings:

Choosing Multimeter
Choose Graphing Meter.
Choose Amps (Internal).
Choose the Binoculars, select Split Screen view.
Choose Settings, select both the Grid and Scales Display
Choose 5 min time interval
Choose 10A scale
Choose channel 1 and select Filter on, Peak Detect off
Select the Camera, Press the Y button twice
The Record button now blinks green indicating that it is ready to record.

Final Setup:

Connect the leads in parallel to the negative battery cable.
Manually lock tailgate.
Do not manually lock the driver's door.
Ensure all doors and the hood are closed.
Enter the vehicle and close the driver's door.
Start the car.
Turn off the car.
Exit the car and close the driver's door.
Lock the car.
Disconnect the negative battery cable for the car body and isolate it from ground.
All current is now flowing through the scope.

Recording:

Press Y to start the recording.
The Screen and most functions are frozen while recording. The actual values will not be displayed.
Stay away from FMDM area.
Allow the car to sit for untouched for a minimum of 2 hours.
If desired, the car can be left untouched overnight and the scope will record the entire time.

Saving & Displaying Data:

Press Y to stop recording
Press N 4 times to return to the main menu.
Choose Data Management.
The most recent recording is at the top of the list.

Press Y to display the recording.

Transfer files to a computer to view and/or attach it to a Vehicle Report:

Turn off the Scope and remove the card.

Connect the card to a computer using a CF card adapter.

Browse to computer-Vantage-User-Data

Copy the log (use the time stamp on data modified to confirm)

Viewing the Data:

Download and install ShopStream Connect from: <https://www1.snapon.com/diagnostics/us/SSC>

Open ShopStream Connect.

Ignore the error that indicates no connection to a scope.

Browse to the folder where you saved the file.

Double click to open.

Choose Setup, Trace 1, use slider to align the 0 with a grid line

Click the magnifying glass, click Max, then click the Green Check to see the entire log.