



Technical Journal

TITLE:

Drained 48 Volt battery with Volvo Car ShowmodeREF NO:
TJ 35085.5.0ISSUING DEPARTMENT:
Technical ServiceCAR MARKET:
United States and CanadaPARTNER:
3 US 7510 Volvo Car USAISSUE DATE:
2021-07-14STATUS DATE:
2021-07-21FUNC GROUP:
3110FUNC DESC:
Battery

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“Right first time in Time”

Attachment

File Name	File Size
TJ35085.jpg	0.3505 MB

Rows beginning with * are modified

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

DESCRIPTION:

- * New information for MY2022 under service.
- * Additional models added under vehicle type.

If the 48 Volt battery is drained with Volvo Car Showmode installed, please follow the instruction under “Service”.

CSC Customer Symptom Codes

Code	Description
LM	12 V main battery/Dead battery

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
MVBM	96A19F	Permanent



Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
22X	06	B06KERS					2022-9999		-	202022-999952
22X	L1	BL1KERS					2022-9999		-	202022-999952
23X	06	B06KERS					2022-9999		-	202022-999952
23X	L1	BL1KERS					2022-9999		-	202022-999952
246	06	B06KERS					2022-9999		-	201946-999952
246	L1	BL1KERS					2022-9999		-	201946-999952
256	06	B06KERS					2022-9999		-	201946-999952
256	L1	BL1KERS					2022-9999		-	201946-999952
536	ED	E400V6					2022-9999		-	202037-999952
536	L1	BL1KERS					2022-9999		-	202020-999952

SERVICE:

*The Volvo Car Showmode must be updated to latest software version to perform correctly.

*New Software including MY 2022 can now be obtained at: <https://www.brigo.com/showmode>, read the latest “Release notes” instruction thoroughly.

Note:

Please inform the sales department/showroom to update the software for the Volvo Car Showmode.

Important:

Prior to displaying the vehicle in the showroom, drive/Idle the vehicle for 10-15 minutes to ensure sufficient charge of the 48 volt battery.

Warranty claim info:

No warranty claim accepted for a job described in this 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”, with the title “Dead 48 V battery with Volvo Car Showmode” installed, use function group 3110.

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



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VIDA

Home XC60 (18-) D42018, AWB855 AWD X

Planning & Diagnostics Software Information

VIN: YV1U2K5TCL1411837 Customer Name: Connection: Virtual #1 Active

Model/Year/Chassis: XC60 (18-), 2020, 411837

Work List

- Planning
- Customer Symptom Codes
- Claim Types
- Technical Journals
- Service Programs
- Operations and Packages
- Parts
- Software
- Diagnostics
- Network
- Fault Tracing
- Components
- Service Functions

ECUs Other

ID	Name
4/184	Active Safety Domain Master (ASDM)
16/105	Audio Control Module (AUD)
4/220	Battery Backed-up Sounder (BBS)
4/221	Battery Monitoring Sensor (BMS)
4/17	Brake Control Module 2 (BCM2)
16/202	Center Console Display (CCD)
4/56	Central Electronic Module (CEM)
4/154	Climate Control Module (CCM)
4/82	Differential Electronic Module (DEM)
4/213	Driver Door Module (DDM), Default
5/1	Driver Information Module (DIM)
4/197	Electronic Gear Selector Module (EGS)
4/46	Engine Control Module (ECM)
4/228	Graphical Head-up Display (GHUD)
4/112	Headlamp Control Module Left (HCM)
4/113	Headlamp Control Module Right (HCM)
4/185	Infotainment Head Unit (IHU)
4/263	Integrated Starter Generator Module (ISGM)
4/237	Interior Motion Sensor (IMS)
4/270	Mid Voltage Battery Module (MVBM)
4/265	Mid Voltage Converter Module (MVCM)
4/266	NOx Reduction Control Module (NRCM)
4/333	OBD Firewall Module (OFM)

DTCs Documents Wiring Diagrams Parameters Activations Diagnostic Sequences

Diagnostic Sequences

- Mid voltage system, overview
- Unlock the permanently disabled MVBM relay closure

VIRTUAL (VCC-517155-1, version 1.0)

Unlock the permanently disabled MVBM relay closure

When the Mid Voltage Battery (MVBM) state of charge (SoC) falls below 6%, the MVBM will permanently open the relay to disconnect the battery. This is done to save the battery from damage caused by being discharged too far.

In a healthy system the SoC should never fall below 19%. The root cause for the low SoC is most likely not the MVBM, but the generator function, performed by the Integrated Starter Generator Module (ISGM). This tool is used to force closure of the relay, i.e. to unlock the disabled relay control.

Note! The root cause for the battery being discharged below 19% must be fault traced and remedied first.

Once the unlocking has been completed, it is important to monitor the generator function to make sure that the SoC starts increasing. When the SoC exceeds 20% this tool can be closed.

- Click the button ">>" to continue.

>> Close

Source 8/22/201

TJ35085