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Volvo Car USA LLC

Technical Journal

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Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA	Function Group 3110	
Function Description Battery		Page Page 1 of 5	

Attachment

File Name	File Size
TJ 36845 Main Battery SN.pdf	0.0844 MB

Rows beginning with * are modified

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

DESCRIPTION:

Note: Make sure to fully read this TJ before diagnosing the vehicle

This Technical Journal is for informational purposes, and to be used as reference material when charging, maintaining, and/or testing 12V batteries for SPA/CMA vehicles.

*Please note: If the 12V battery is discharged, the battery may need to be jumped and charged prior to performing the battery test. As a best practice, ensure there is an adequate amount of fuel in the vehicle prior to jump starting as to not damage the Mid-Voltage Battery Module (MVBM).

To ensure battery health and improve customer satisfaction, a battery charger/maintainer **MUST BE** connected to the charging posts in the engine compartment while performing a scheduled maintenance event, software download, or any other service/warranty related visit.

For vehicles stored in Transport mode, please ensure the 12V battery is maintained according to the Stock Maintenance Checklist (VIDA). For vehicles stored in Normal mode, the 12V battery should be maintained every 14 days.

For additional information related to 12V Battery Testing / Maintenance, please follow advice under "Service".

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CSC Customer Symptom Codes

Code	Description
7B	Starting/Engine does not start/Engine does not turn/No clicking sound at start attempt
AA	Starting/Engine does not start/Engine turns
AB	Starting/Engine hard to start/cranks slowly/Unsure when/at all times
AC	Starting/Engine hard to start/cranks slowly/After use
AD	Starting/Engine hard to start/cranks slowly/Cold start
BE	Starting/Engine does not start/Engine does not turn/Unsure when/at all times
BF	Starting/Engine does not start/Engine does not turn/Clicking sound at start attempt
BJ	Starting/Engine does not start/Unsure when/at all times
LM	12 V main battery/Dead battery
LN	12 V main battery/Weak or low electrical power
6J	Text window and warning symbol/Low battery

DTC Diagnostic Trouble Codes

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224							2019-9999		-	201835-999952
225							2019-9999		-	201817-999952
234							2017-9999		-	201617-999952
235							2017-9999		-	201624-999952
236							2017-9999		-	201646-999952
238							2018-9999		-	201710-999952
246							2018-9999		-	201717-999952
256							2016-9999		-	201508-999952
536							2019-9999		-	201747-999952
539							2022-9999		-	202142-999952

SERVICE:

Main Battery Testing: SPA/CMA vehicles only

After capturing a **NEW** VIDA readout, conduct the following steps in VIDA:

Diagnostics --> Fault Tracing --> Select CSC Symptom: "LM 12V main battery, Dead battery" & Function: "Electrical distribution 12V system" --> "Component test: Main Battery"

This sequence will evaluate the battery condition based on long-term data measured by the vehicle's on-board battery diagnostics. If a deeper analysis of the battery is needed, or if the battery is suspected to be faulty, VIDA will guide the technician through the testing procedure, and provide a warranty authorization code should the battery need to be replaced.

For the Improved 12V battery test please refer to TJ 36961 & VIDA instructions.

Main Battery Testing: for NON SPA/CMA vehicles + Support Battery Testing

The handheld battery tester (9513212/9513030/BT3300) should be used for testing main batteries on all **non** SPA/CMA vehicles and for testing support batteries on ALL vehicles. *See Service Journal 26611 “Battery Testing” for more information.

Before testing 12V battery, you **MUST** read out the vehicle with VIDA to ensure that there are no current issues causing battery drain.

Please follow normal CSC-based fault-tracing to determine if battery testing is needed.

Note: The hand held battery tester must be set to test the appropriate type of battery: If the Volvo label on top of the battery indicates “AGM”, then the “AGM Flat-Plate” setting should be selected. All others should use the “Regular Liquid” setting.

The tester should also be set to the “EN” (European Normal) rating scale as indicated on the Volvo label.

The handheld tester must ALWAYS be connected directly to the battery terminals for testing. Connecting the negative clamp to a grounding point is not acceptable.

Warranty claim info:

Effective immediately, if there is not VIDA readout/code prior to testing, charging, and or replacing a battery, claims will NOT be accepted under Warranty. Additionally, codes generated using the handheld tester will NO longer be accepted on SPA/CMA vehicles.

For SPA/CMA vehicles, no warranty claim will be accepted without a test code provided by VIDA battery test.

Battery tests and replacements will be covered under New Car Warranty (01) when the vehicle is still under Warranty, there is a demonstrable, warrantable defect, and the results of the above testing determine that replacement is necessary.

The battery code retrieved must be provided in the repair text (refer to 206.010 - Claim Preparation - Condition Repair Text).

The serial number of the old and new batteries are required to be included in the repair text *for 12V Main Batteries ONLY*. See the attachments for reference/location of the serial numbers. If there is a serial number in both locations, use the number that is on the top of the battery.

The authorization code from the battery test must also be printed and attached to the hard copy of the repair order.

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VST Operation Number

VST Operation Number	Description
31102-3	Battery Replace (Main)
36060	Calibration with VIDA
31122-2	Battery Condition Check

VEHICLE REPORT:

If you experience issues charging, testing, or maintaining the battery utilizing the standards outlined in this Technical Journal and associated resources, please submit a "Support Needed" vehicle report.

Attach VIDA diagnosis logs for analysis.

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

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2024.03.07 TJ 36845 – Main Battery SN, Andrew Fiorino, Security Class: Proprietary