

**Volvo Car USA LLC****Technical Journal**

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12V Battery Test Methods		TJ 26745.13.14	
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Car Market	Partner	Function Group	
United States and Canada	3 US 7510 Volvo Car USA	3110	
Function Description		Page	
Battery		Page 1 of 5	

**Attachment**

File Name	File Size
TJ 26745_Main Battery SN.pdf	1.3918 MB

Rows beginning with \* are modified

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

**DESCRIPTION:**

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.

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

**Note:** Be sure that charger is configured for the correct type of battery. Refer to the Volvo label on the top of the battery for type information. AGM (absorbent glass mat)-type batteries will have this clearly indicated. All other Volvo-labeled batteries can be considered "Regular Liquid" lead-acid batteries.

AGM-type batteries are very sensitive to charging conditions:

\*Please see Service Journal 25714 "Battery Charger - for use on the car, in the workshop" for charging conditions.

**Exceeding the recommended charging voltage or current can permanently damage the battery.**

**\*For a comprehensive list of reference material related to 12V battery charging, maintenance, and testing, please see below:**

**VIDA References:**

- VIDA 311: Battery voltage support
- VIDA 31: Redundant battery (1/10)
- VIDA 31: Main battery (1/1)
- VIDA 31: Battery
- VIDA 05: Stock Maintenance Checklist
- VIDA PDS Pre Delivery Service
- VIDA SW Order Note (battery support)

**Technical Journals:**

- TIE Technical Journal 31543
- TIE Technical Journal 36189

**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
124							2007-9999		0000001-9999999	200620-999951
134							2011-9999		0000001-9999999	201020-999951
135							2008-9999		0000001-9999999	200720-999951
136							2008-9999		0000001-9999999	200720-999951
137							2016-9999		0000001-9999999	201524-999951
138							2014-9999		0000001-9999999	201345-999951
155							2011-9999		0000001-9999999	201020-999951
156							2009-9999		0000001-9999999	200820-999951
157							2014-9999		0000001-9999999	201420-999951
224							2019-9999		0000001-9999999	201835-999951
225							2019-9999		0000001-9999999	201817-999951
234							2017-2017		0000001-9999999	201617-999951
235							2017-9999		0000001-9999999	201624-999951
236							2017-9999		0000001-9999999	201646-999951
238							2018-9999		0000001-9999999	201646-999951
246							2018-9999		0000001-9999999	201746-999951
256							2016-9999		0000001-9999999	201505-999951
536							2019-9999		0000001-9999999	201746-999951

**SERVICE:****Main Battery Testing: SPA/CMA vehicles only**

A new battery diagnostic sequence has been implemented in VIDA that can be used for any situation where the vehicle battery needs to be checked. This includes situations with a customer complaint and general maintenance check-ups.

The sequence can be found by following CSC fault tracing for *“Electrical distribution: 12V System”*

This new 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.

**Note:** The VIDA diagnostic tool is the only acceptable test on SPA/CMA vehicles without a customer complaint or for Multi-Point Inspections (MPI).

**Main Battery Testing: All other vehicles + Support Battery Testing, ALL Vehicles**

- 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 handheld 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 Claims:**

**Effective immediately, if there is not VIDA readout prior to testing, charging, and or replacing a battery, no claim will be accepted under Warranty.**

Battery tests and replacements will be covered under the 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.

**Authorization codes generated by the BT3300 tester will only be accepted on SPA and CMA vehicles if the condition described in TJ 35924 applies.**

The battery code retrieved must be provided in the repair text (refer to SMB 00-428 for repair text requirements).

The serial number of the old and new batteries are also 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.

**VSTG OPERATION NUMBERS:**

31122-2 Battery condition check

31102-3 Battery replace

**VST** Operation Number

VST Operation Number	Description
31122-2	Battery condition check
31102-3	Battery replace

**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.

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

V O L V O



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