

V O L V O

Volvo Car USA LLC

Technical Journal

Technical Journal Title GHCA Fault Diagnosis and Replacement VST Operation		Ref. No. TJ 37629.6.1	
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Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA	Function Group 3234	
Function Description Onboard charger, high voltage		Page Page 1 of 3	

Rows beginning with * are modified

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

DESCRIPTION:

*Note added to "Service."

If a vehicle shows the symptom of not being able to charge the HV battery via AC Charging, please follow the advice under "Service".

CSC Customer Symptom Codes

Code	Description
YN	High voltage battery/Discharged/poor charge
YM	On board charger/No/reduced/incorrect function/While driving
YL	Plug-in charging/No/reduced/incorrect function/With external AC-cable
YZ	Plug-in charging/No/reduced/incorrect function/With external DC-cable
YW	Charging socket/LED indicates fault/reduced charging/Unsure when/at all times

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
GCCC	P2D778C	Permanent
GCCC	U01BB00	Permanent
GHCA	B3A1D04	Permanent
GHCA	B3A1D19	Permanent
GHCA	B3A1D47	Permanent
GHCA	B3A1D56	Permanent
GHCA	B3A1D78	Permanent
GHCA	P06AB11	Permanent
GHCA	P0D2600	Permanent
GHCA	P0E8592	Permanent
GHCA	P0E8B16	Permanent
GHCA	P0E8B68	Permanent
GHCA	P29BC16	Permanent
GHCA	P29BC98	Permanent
GHCA	P2DB701	Permanent

Technical Journal 37629.6.1

Control Module	Code	Fault Type
GHCA	P2E2F17	Permanent
GHCA	P2E9117	Permanent
GHCA	P2E9119	Permanent
GHCA	U359116	Permanent
GHCA	U359192	Permanent
GHCA	U35C794	Permanent

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
356							2025-2025		-	202417-202545

SERVICE:

Confirm the following:

1. DC charging still works; only AC charging does not.
2. One of the DTCs mentioned in this TJ is set.

If both criteria are fulfilled, proceed with this TJ. Otherwise, continue with VIDA fault tracing.

Note: The GHCA does not handle DC charging. Therefore, GHCA replacement will not resolve DC charging issues. Communication with DC chargers is managed by the GCCC.

Task to perform:

*Replace the GHCA according to VIDA. The replacement GHCA's are an improved design.

Note: If AC charging is still not working after replacing the GHCA, test the GHCA fuse with VIDA. (VIDA > Planning and Diag > Components > Sensors and Actuators > Fuse, GHCA > Diag Sequences > Fuse, GHCA)

Abbreviations:

AC - Alternating Current

DC - Direct Current

GCCC - Grid Communication Charging Controller

GHCA - Grid to High Voltage Converter A

Failing Part: GHCA

Warranty claim info:

To get a warranty claim accepted for a job described in this TJ, use only the corresponding VST OP number stated in this TJ.

Please note that fault tracing is not eligible for separate reimbursement under this TJ. Any fault tracing VST operation numbers will be rejected.

Note that the TJ number must be stated in the repair order text.

VST Operation Number

VST Operation Number	Description
98786-2	GHCA replacement acc. to TJ
97733-3	High voltage battery disconnect/connect and insulations measurement acc. QB/TJ
98801-2	General reimbursement acc. to TJ
98821-3	Software download acc. to TJ

VEHICLE REPORT:

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect.

Also submit a Vehicle Report if the replaced GHCA's serial number starts with "300" (ignore leading zeros) and is equal to or greater than **000030073988**.

Use the concern area "Vehicle Report" and the sub-concern area "Support Needed", use function group 3234.