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| Technical Journal Title GHCA Fault Diagnosis and Replacement VST Operation | | Ref. No. TJ 37629.5.0 | |
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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:

* Added DTC GCCC - P2D778C

* Modified Model Year and Structure Week range to include an end date

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 | POD2600 | Permanent |
| GHCA | POE8592 | Permanent |
| GHCA | POE8B16 | Permanent |
| GHCA | POE8B68 | Permanent |
| GHCA | P29BC16 | Permanent |
| GHCA | P29BC98 | Permanent |

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| Control Module | Code | Fault Type |
|----------------|---------|------------|
| GHCA | P2DB701 | Permanent |
| 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.

FAQ: Customer Questions About AC Charging Issues:

1. Q: My AC charging no longer works. Is there anything I can do to fix it myself?
A: If AC charging doesn't work, the car needs a workshop check. DC fast charging works as a temporary solution.
2. Q: Could my home or public charger have caused this fault?
A: No, this is not caused by your home or public charger. You can keep using the chargers after the car has been serviced.
3. Q: Is this a common issue?
A: It is not widespread, but in some cases, it has occurred repeatedly and can be linked to rapid fluctuations in the power supply under certain grid conditions.
4. Q: Will reducing the amperage during AC charging help prevent this issue from happening again?
A: No. This hardware fault is not related to amperage (charging power). It's triggered by certain power grid conditions, regardless of the amperage you select.

5. Q: How can I prevent this from happening again? Can DC charging (mentioned as a temporary solution) also cause this fault?
A: The only way to completely avoid this fault is to use DC fast charging instead of AC charging. DC charging bypasses the component affected by certain grid conditions during AC charging. Therefore, DC charging cannot cause this specific fault.

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

* 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 concern area "Vehicle Report" and sub concern area "Support Needed", use function group 3234.