

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

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|--------------------------------------|-------------------------|----------------|-------------|
| Technical Journal Title | | Ref. No. | |
| BEV High Voltage Battery Replacement | | TJ 36451.2.0 | |
| Issuer (Dept.) | | Issue Date | Status Date |
| Technical Service | | 6/28/23 | 7/14/23 |
| Car Market | Partner | Function Group | |
| United States and Canada | 3 US 7510 Volvo Car USA | 3113 | |
| Function Description | | Page | |
| Battery, high voltage | | Page 1 of 3 | |

Attachment

| File Name | File Size |
|--------------------|-----------|
| Sp list 36451.pptx | 0.0358 MB |

Rows beginning with * are modified

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

DESCRIPTION:

In the event of complete high-voltage battery replacement, the battery being installed may not have the same cell chemistry as the battery being removed.

The replacement battery will always have the same or higher capacity compared to the original battery.

To be able to use another cell chemistry you need to download a unique SP (Software Product).

This TJ will guide you on which SP to use in the event of high-voltage battery replacement where the battery is replaced with new cell chemistry and also explains the sequence for downloading the SP and update software.

Please follow the instruction under "Service".

CSC Customer Symptom Codes

| Code | Description |
|------|--|
| 7B | Starting/Engine does not start/Engine does not turn/No clicking sound at start attempt |

DTC Diagnostic Trouble Codes**Vehicle Type**

| Type | Eng | Eng Desc | Sales | Body | Gear | Steer | Model Year | Plant | Chassis range | Struc Week Range |
|------|-----|----------|-------|------|------|-------|------------|-------|---------------|------------------|
| 536 | ED | E400V6 | | | | | 2021-2023 | | - | 202037-202317 |
| 539 | ED | E400V6 | | | | | 2022-2023 | | - | 202139-202317 |

SERVICE:

When a new battery is installed and the cell chemistry is different a unique SP is necessary, see attachment “SP list 36418.pdf”.

The SP changes the Variant Attribute in the vehicle to match that of the replacement battery.

The information of what battery is installed in the vehicle could be found in VIDA, Vehicle details, Variant Attribute, and search for VDN code CKxx. The part number label is placed on the rear left side of the HV battery.

Use the following sequence when installing the SP, BECM reload, and software upgrade.

1. Software product to change from one CK to another. See attachment “SP list 36418.pdf”.
2. Perform BECM reload
3. Perform a total upgrade

If the wrong SP is used, the car will not start after the battery replacement.

Warranty claim info:

To get a warranty claim accepted for a job described in this TJ, please use the following data:

VST OP number: 36004-2

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

VST Operation Number

| VST Operation Number | Description |
|----------------------|-------------------------------------|
| 36004-2 | Software control module downloading |

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 sub-concern area “Support needed,” use function group 3113.

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

Software product list BEV

| | | |
|----------|------------|---|
| | | For vehicle with CK06 |
| Type | Model Year | Battery part numbers 32361092, 36003632, 36051303, 32336733, 36003633, 36051304 |
| XC40 AWD | 2021 | SP 32397477 |
| | 2022 | |