

# V O L V O

## Volvo Car USA LLC

## Technical Journal

|                                                                               |                                           |                                 |                                |
|-------------------------------------------------------------------------------|-------------------------------------------|---------------------------------|--------------------------------|
| Technical Journal Title<br><b>Standard Range Module Replacement with CK04</b> |                                           | Ref. No.<br><b>TJ 37624.3.0</b> |                                |
| Issuer (Dept.)<br><b>Technical Service</b>                                    |                                           | Issue Date<br><b>12/10/25</b>   | Status Date<br><b>12/11/25</b> |
| Car Market<br><b>United States and Canada</b>                                 | Partner<br><b>3 US 7510 Volvo Car USA</b> |                                 | Function Group<br><b>3116</b>  |
| Function Description<br><b>Cell &amp; Module</b>                              |                                           | Page<br><b>Page 1 of 3</b>      |                                |

Rows beginning with \* are modified

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

### DESCRIPTION:

\*Vehicle type adjusted.

\*Information under service updated

If a decision is taken to replace a cell module and the vehicle has VDN code CK04, please follow information under "Service."

### CSC Customer Symptom Codes

| Code | Description                                                       |
|------|-------------------------------------------------------------------|
| 53   | Driving, Twin Engine/Propulsion using electric motor not possible |
| YN   | High voltage battery/Discharged/poor charge                       |
| YM   | On board charger/No/reduced/incorrect function/While driving      |
| 7G   | Text window and warning symbol/Yellow symbol and text message     |
| IV   | Text window and warning symbol/Text message                       |

### DTC Diagnostic Trouble Codes

### Vehicle Type

| Type | Eng | Eng Desc | Sales | Body | Gear | Steer | Model Year | Plant | Chassis range | Struc Week Range |
|------|-----|----------|-------|------|------|-------|------------|-------|---------------|------------------|
| 224  | BK  | B1LPHEV  |       |      |      |       | 2020-2022  |       | -             | 201928-202133    |
| 224  | BR  | B1FPHEV  |       |      |      |       | 2020-2022  |       | -             | 201920-202133    |
| 225  | BK  | B1LPHEV  |       |      |      |       | 2020-2022  |       | -             | 201920-202133    |
| 225  | BR  | B1FPHEV  |       |      |      |       | 2020-2021  |       | -             | 201920-202116    |
| 238  | BR  | B1FPHEV  |       |      |      |       | 2020-2022  |       | -             | 201920-202132    |
| 246  | BK  | B1LPHEV  |       |      |      |       | 2020-2022  |       | -             | 201920-202133    |
| 246  | BR  | B1FPHEV  |       |      |      |       | 2020-2022  |       | -             | 201920-202133    |
| 256  | BR  | B1FPHEV  |       |      |      |       | 2020-2022  |       | -             | 201920-202133    |

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### SERVICE:

**Important! If you are replacing a cell module and the vehicle has VDN code CK04, please install the SP listed below before you replace the cell module.**

Tip: If possible, perform the module replacement at a SoC of less than 30%, use the BECM SOC parameter in VIDA for the most accurate reference. The reason for downloading the SP before replacing the module and doing the replacement with a SoC of less than 30% is to avoid DTC's being set after the replacement. If the replacement is done with a SoC of greater than 30% the battery may need to be discharged after the replacement before you can clear any active BECM DTCs.

- \*1. Check if the latest SW is installed in the vehicle. If not, Perform a Total Upgrade according to TJ 31543.
- \*2. Install the correct SP for the vehicle (***if the Total Upgrade is performed after the SP is installed the SP will be overwritten!!!***).
- \*3. Replace module according to VIDA

### Following SPs to use

S90, V90, V90CC - 32469809  
S90L - 32469810  
XC60, XC90 - 32469811  
S60, V60, V60CC - 32469812

### Abbreviations:

VDN - Variant Designation Number  
SP - SW Products  
SoC - State of charge  
BECM - Battery energy control module

### FAQ:

Q: Should the SP be loaded prior to obtaining target voltage?

A: The SP does not affect target voltage calculation. We recommend loading the SP prior to cell module replacement in order to avoid the possibility of DTC's being set afterwards.

### Warranty claim info:

To have a warranty claim approved for the job described in this Technical Journal (TJ), use the corresponding VST operation number provided.

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

Additionally, ensure that the TJ number is clearly stated in the repair order text.

### VST Operation Number

| VST Operation Number | Description                             |
|----------------------|-----------------------------------------|
| 98821-3              | Software download acc. to TJ            |
| 98820-2              | Software download incl. VIDA connection |

### 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 3116.