

V O L V O

Volvo Car USA LLC

Technical Journal

Technical Journal Title BEV High Voltage Battery Replacement		Ref. No. TJ 36451.4.0	
Issuer (Dept.) Technical Service		Issue Date 5/13/24	Status Date 5/16/24
Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA	Function Group 3113	
Function Description Battery, high voltage		Page Page 1 of 4	

Attachment

File Name	File Size
Sp list 36451 4.pptx	0.0475 MB

Rows beginning with * are modified

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

DESCRIPTION:

*Updated attachment.

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 instructions 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

Technical Journal 36451.4.0

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
536	EF	E400V2					2022-2023		-	202146-202317
539	ED	E400V6					2022-2023		-	202139-202317
539	EF	E400V2					2022-2023		-	202146-202317

SERVICE:

When a new battery is installed and the cell chemistry is different a unique SP is necessary, see attachment.

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 can 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.
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 attachment continue to next page. This TJ has one attachment.

**Software Product list BEV
VDN code CK06 27 modules**

Current part number	replacing part number	SP number for VDN update	replacing part number	SP number for VDN update
CK06	CK25	32397477 SP	CK28	32436196 SP
32290433	32361092		32441006	
36051298	36051303		36051451	
	32336733		32441007	
	36051304		36051452	

36451 3

**Software Product list BEV
VDN code CK25 27 modules**

Current part number	replacing part number	SP number for VDN update
CK25	CK28	32436196 SP
32361092	32441006	
36051303	36051451	
32336733	32441007	
36051304	36051452	

36451 3

Technical Journal 36451.4.0

Software Product list BEV VDN code CK24 24 modules

Current part number	replacing part number	SP number for VDN update
CK24	CK29	32436197 SP
32361091	32441008	
36051292	36051450	

36451 3

Software Product list BEV VDN code CK07 27 modules

Current part number	replacing part number	SP number for VDN update
CK07	CK27	32436195 SP
32336741	32441093	
36051286	36051456	
32290432	32441094	
36051270	36051457	
32299856	32441095	
36051288	36051458	

36451 4