

# V O L V O

## Volvo Car USA LLC

## Technical Journal

Technical Journal Title HLCM Replacement		Ref. No. TJ 37176.2.0	
Issuer (Dept.) Technical Service		Issue Date 12/3/24	Status Date 12/4/24
Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA	Function Group 3229	
Function Description Miscellaneous		Page Page 1 of 4	

### Attachment

File Name	File Size
TJ 37176_1.pdf	0.5071 MB
<a href="#">TJ-37176_1.mp4</a>	<a href="#">3.3336 MB</a>
<a href="#">TJ-37176_2.mp4</a>	<a href="#">5.5992 MB</a>

Rows beginning with \* are modified

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

### DESCRIPTION:

If the HLCM needs to be replaced, please follow the instructions under "Service."

HLCM (High to Low voltage Converter Module)

CVTN (Cell Voltage Temp Node)

### 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

Control Module	Code	Fault Type
HLCM	P0A9400	Permanent
HLCM	P0A9401	Permanent
HLCM	P0EA521	Permanent
HLCM	P0A9402	Permanent
HLCM	P0A9403	Permanent
HLCM	P0A9404	Permanent
HLCM	P0A9405	Permanent
HLCM	P0A9406	Permanent
HLCM	P0A9408	Permanent
HLCM	P0A9409	Permanent
HLCM	P0EA500	Permanent

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Control Module	Code	Fault Type
HLCM	P0EA501	Permanent
HLCM	P0EA502	Permanent
HLCM	P0EA503	Permanent
HLCM	P0EA504	Permanent
HLCM	P0EA505	Permanent
HLCM	P0EA506	Permanent
HLCM	P0EA508	Permanent
HLCM	P0EA509	Permanent

### Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
356							2024-2027		-	202417-202752

### SERVICE:

This is a temporary deviation from SPJ 1001328, allowing certified technicians to open the high-voltage battery lid and replace the HLCM in workshops.

Contact Retailer Technical Support via a TIE report to get technical prior approval.

Retailer Technical Support will provide hands-on assistance with this repair. Make sure that all required tools are available.

The following special tools are needed:

**9513157** and **9513156** to lower the high-voltage battery from the vehicle.

You will also require the special tools listed below which are also included in the VIDA repair instructions:

**9997618**

**9513277**

**9513177**

**2 x 9513262**

**9513176**

**9513284**

**9513279**

**9513255**

**Note:** To remove the battery lid screws, an EP8 socket is required.

**Note:** The lid sealing material will be delivered in 90 meters length and can be used for more than one vehicle.

Remove the lid in a well-ventilated area. Wear a breathing mask during the removal of the battery lid and after the lid has been removed. There will be an electrical smell which dissipates in a short time.

Please see the attached videos ([TJ-37143\\_1.mp4](#)) and ([TJ-37143\\_2.mp4](#)) for help with removing two of the high-voltage connectors.

After the HLCM has been replaced and before the lid is reinstalled, it is important to reuse the three soft dampers shown in the picture (TJ 37143\_1.pdf). Move the soft damper from the replaced HLCM to the new one according to the picture.

If needed, use double-sided tape to fasten the soft damper.

**Note:** Be very careful not to damage the soft dampers.

**Note:** Do not scrap the four springs according to VIDA. They should be reused since they're not included with the new HLCM.

**Note:** Avoid getting coolant inside the battery when the coolant hoses are released from the HLCM. Have absorbents or paper to collect any coolant.

**Note:** Unclip the CVTN before removing the HLCM pipe so there is no risk of getting coolant in the CVTN.

**Note:** There are no threads on new HLCMs. Technicians will need to make their own threads with the fastening screws.

**Note:** It is best to have four people helping when refitting the battery lid to avoid sealing issues (one on each side).

### Warranty claim info:

To get a warranty claim accepted for a job described in this TJ, use the below VST OP.

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

**Failing Part:** 36010867

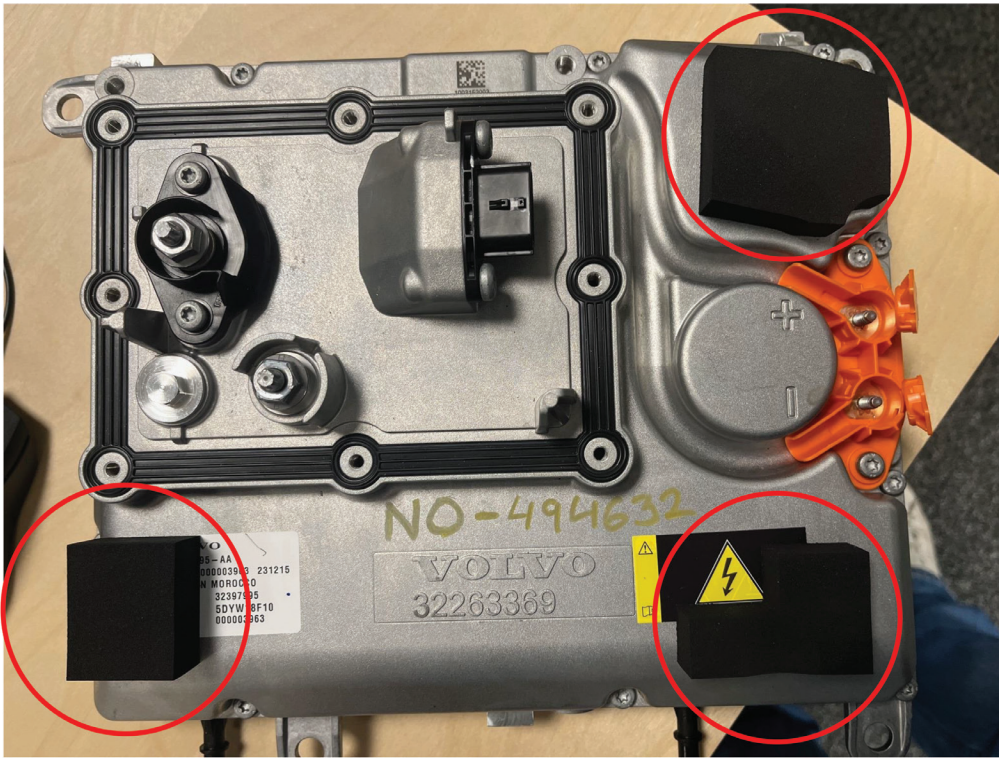
### VST Operation Number

VST Operation Number	Description
98590-2	HLCM replace acc. to TJ
36002-3	Software Control Module downloading

### VEHICLE REPORT:

Yes, please submit a Vehicle Report. Use concern area "Vehicle Report" and sub-concern area "Support Needed", use function group 3229.

**To view TJ attachments continue to next page. This TJ has one attachment and two video files.**



TJ 37143