

Volvo Car USA LLC

Technical Journal

Technical Journal Title Propulsion Message with DTC BECM P0A9500 and/or P0E2F00		Ref. No. TJ 37376.1.0	
Issuer (Dept.) Technical Service		Issue Date 5/15/25	Status Date 5/16/25
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 3	

Attachment

File Name	File Size
TJ_37376_1.jpg	0.1399 MB

DESCRIPTION:

If a customer experiences a “Propulsion Warning” message in the DIM in combination with BECM DTC’s P0A9500 and/or P0E2F00, please follow the advice under “Service”.

DIM - Driver Information Module

BECM - Battery Energy Control Module

CSC Customer Symptom Codes

Code	Description
7B	Starting/Engine does not start/Engine does not turn/No clicking sound at start attempt
7G	Text window and warning symbol/Yellow symbol and text message

DTC Diagnostic Trouble Codes

ECU	DTC	Fault Type
BECM	P0A9500	Permanent
BECM	P0E2F00	Permanent

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
536							2021-9999		-	202037-999952
539							2022-9999		-	202122-999952

SERVICE:

Perform a “High-voltage system overview” read out. (VIDA > Planning and Diagnostics > Service Functions > Diagnostic Sequences).

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Note the BECM values in the following parameters:

BECM - High voltage battery, voltage

BECM - Voltage after fuse, front output (measuring point C)

BECM - Voltage after fuse, rear output (measuring point D)

If voltage after fuse (front and rear) are greater than the high voltage battery, the BECM needs to be replaced. See the attachment "TJ 37376_1" for an example of this issue.

This Technical Journal is a complement to the information in VIDA.

Warranty claim info:

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

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

Failing Part:

32397518/32397473

VST Operation Number

VST Operation Number	Description
31157-3	Coolant circuit high voltage battery check.
31147-3	Insulation measurement of high voltage battery (disconnected)
26151-3	Cooling system electric powertrain, fill and bleed.
31125-2	High voltage battery remove-install
31130-2	High voltage battery disconnection and connection
31134-3	High voltage battery disassemble/assemble
36001-2	Diagnostic trouble codes read/reset
31138-3	Battery Energy Control Module (BECM) replace
31133-3	Isolation testing high voltage system

VEHICLE REPORT:

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect. Use 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 four attachments.

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BECM		IHFA		ACCA	
Parameter	Value	Parameter	Value	Parameter	Value
BECM - High voltage battery, state of charge (SoC)	81.68 %	IHFA - High-voltage system, voltage	434.5 V	VCU1 - Air condition compressor module A ACCA, voltage	434 V
BECM - High voltage battery, sum of cell voltages	433.8 V	IHFA - High voltage system, current	0 A	VCU1 - Air-Conditioning Compressor module A (ACCA), current	1 A
BECM - High voltage battery, voltage	434 V	-----	-----	HVHA	
BECM - High voltage battery, current	12.9 A	IHFA - Low voltage side, voltage	14.4 V	Parameter	
-----	-----	IHFA - Low voltage side, current	55.7 A	Value	
BECM - Safety circuit (interlock) 1, status	Closed	-----	-----	VCU1 - HVHA low voltage supply	14 V
BECM - Safety circuit (interlock) 2, status	Closed	IHFA - ECU supply voltage	14.4 V	VCU1 - HVHA status	Reserved
-----	-----	IEM		VCU1 - HVHA high voltage	OK
BECM - Contactor precharge, status	Open			VCU1 - HVHA current consumption	8 A
BECM - Contactor positive, status	Closed			VCU1 - HVHA requested power consumption	7000 W
BECM - Contactor negative, status	Closed			VCU1 - HVHA power consumption	3880 W
BECM - High-voltage battery, contactor voltage	434.2 V			Vehicle	
-----	-----	OBC		Parameter	
BECM - Voltage after fuse, front output	451.6 V	Parameter		Value	
BECM - Voltage after fuse, rear output	449.3 V	OBC - Charger output voltage		Driving	
-----	-----	-----		-----	
BECM - ECU supply voltage	14.02 V	OBC - Safety circuit (interlock) 3, status		Closed	
BECM - Power sustain relay PSR, voltage	14.13 V	OBC - ECU supply voltage		14.34 V	

				CEM - Usage mode	
				Driving	

				CEM - Battery State of Charge (SoC)	
				90.4 %	

				CEM - Battery voltage	
				14.4 V	

				CEM - Battery current	
				13 A	

				CEM - Requested charge voltage from CEM	
				14.48 V	

				EGSM - Transmission park position	
				ParkNotEngaged	