

Volvo Car USA LLC

Technical Journal

Technical Journal Title Propulsion Warning with IEM P0CBC62		Ref. No. TJ 37521.1.0	
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Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA		Function Group 3233
Function Description Electric converter, high voltage		Page Page 1 of 4	

Attachment

File Name	File Size
TJ_37521_1.pdf	0.3178 MB

DESCRIPTION:

If a customer experiences a “Propulsion System Service Required” message in the DIM, and the DTC IEM P0CBC62 is stored, please follow the advice under “Service”.

CSC Customer Symptom Codes

Code	Description
53	Driving, Twin Engine/Propulsion using electric motor not possible
1Q	Driving/Poor performance/lacks power/At take off
AJ	Driving/Poor performance/lacks power
AU	Engine cooling/Engine overheats/runs hot
7G	Text window and warning symbol/Yellow symbol and text message
F3	Complete vehicle/Unusual noise/During acceleration

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
IEM	P0CBC62	Permanent

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
536	ED	E400V6					2021-9999		-	202037-999952
536	EH	E400V8					2024-9999		-	202317-999952
536	ER	E400V12					2024-9999		-	202317-999952
539	ED	E400V6					2022-9999		-	202122-999952
539	EH	E400V8					2024-9999		-	202317-999952
539	ER	E400V12					2024-9999		-	202317-999952

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SERVICE:

There have been cases where the IEM has been replaced incorrectly for this DTC, and instead, a faulty one-way valve in the coolant system was the root cause.

To determine if this coolant valve is faulty, the IEM transistor temperature parameters for phases U, V, and W can be monitored and plotted with VIDA.

Note: For Model Year 2024 and onward, the IEM is a new-generation module. The new IEM uses a different type of temperature sensor, which cannot measure values below 55°C (131°F). Therefore, any temperature below 55°C will be displayed as 55°C. Before Model Year 2024, the temperature sensors corresponded to ambient temperature. Normal temperature value during regular driving conditions: <65°C (149°F)

Tip: During driving, the transistor temperatures for the three phases should be similar. However, the temperatures in the transistors can differ when the vehicle is at a standstill.

Open attachment TJ_37521_1.pdf and look at:

- Page 1: A diagram of a fault-free car during normal driving.
- Page 2: A fault-free car during aggressive driving—still only slight increases and temperatures remain below 65°C.
- Page 3: A car where the coolant one-way valve is faulty. Notice the large temperature fluctuations that frequently occur while driving. Once the temperature reaches 80–100°C (176–212°F), the IEM will set a DTC for temperature and switch to freewheeling mode.
 - If a car has a single motor, the vehicle will come to a stop.
 - In a car has dual motors, only half of the power will be available.

If the vehicle behaves as shown on page 3, replace the hose with the one-way valve to avoid unnecessary replacement of the IEM.

See the part number in the matrix below.

32257930	AWD	Model Year 21/22/23
32428106	AWD	Model Year 22/23
32428107	AWD	Model Year 24/25
32428108	RWD	Model Year 24/25
32428109	RWD	Model Year 24/25
32382025	RWD	Model Year 24/25
32407055	RWD	Model Year 26 -->
32407058	AWD	Model Year 26 -->

If the issue persists after hose replacement, continue fault tracing according to VIDA.

Abbreviations:

IEM - Inverter Electrical Rear Axle Drive Module
DIM - Driver Information Module
DTC - Diagnostic Trouble Code
FWD - Front Wheel Drive
RWD - Rear Wheel Drive
AWD - All Wheel Drive

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.

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

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

VST Operation Number

VST Operation Number	Description
98803-2	General Reimbursement acc. To TJ

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 3233.

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

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