

Volvo Car USA LLC

Technical Journal

Technical Journal Title Check Engine Light or Charging Error Message with DTC ISGM P056200		Ref. No. TJ 37103.3.0	
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Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA	Function Group 3210	
Function Description Alternator		Page Page 1 of 3	

Rows beginning with * are modified

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DESCRIPTION:

If a customer experiences a “Check Engine Light” or a “Charging error” message in the DIM together with DTC ISGM P056200, or in combination with all the DTCs listed below, please follow the advice under “Service”.

Note: These DTCs are related to the vehicle’s 48-volt system and are not an indication of an actual fault with the ISGM hardware.

- Several ISGM units have been sent to the supplier for analysis, with no fault found on all units.

DIM - Driver Information Module

ISGM - Integrated Starter Generator Module

CEM - Central Electronic Module

ECM - Engine Control Module

MVCM - Medium Voltage Converter Module

MVBM - Medium Voltage Battery Module

VCU1 - Vehicle Computational Unit 1

CSC Customer Symptom Codes

Code	Description
7B	Starting/Engine does not start/Engine does not turn/No clicking sound at start attempt
BJ	Starting/Engine does not start/Unsure when/at all times
EF	Engine Remote Start (ERS)/Does not work
6J	Text window and warning symbol/Low battery
IV	Text window and warning symbol/Text message
DL	Warning lights and chimes/Malfunction Indicator Light ("Check engine" light) indication/no indication

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
ISGM	P056200	Permanent
ISGM	P2CC321	Permanent
ISGM	P063C21	Permanent

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224	L1	BL1KERS					2024-9999		-	202317-999952
227	L1	BL1KERS					2024-9999		-	202317-999952
236	06	B06KERS					2024-9999		-	202317-999952
238	06	B06KERS					2024-9999		-	202317-999952
246	06	B06KERS					2024-9999		-	202317-999952
246	L1	BL1KERS					2024-9999		-	202317-999952
246	M1	BM1KERS					2025-9999		-	202417-999952
256	06	B06KERS					2024-9999		-	202317-999952
256	L1	BL1KERS					2024-9999		-	202317-999952
256	M1	BM1KERS					2025-9999		-	202417-999952
536	L1	BL1KERS					2024-9999		-	202317-999952

SERVICE:

Do not replace the ISGM. The ISGM is just a messenger to detect issues in the 48-volt system.

*If the car has more ISGM DTCs than the three presented in this technical journal or DTCs on other units that match customer complaints, start the fault tracing for these DTCs according to VIDA symptom-based fault tracing.

Always start by checking if the car has the latest software according to TJ 31543.

The three DTCs stated in this TJ are set because the ISGM has detected low voltage in the medium voltage system (48-volt), and it needs to be fault-traced according to VIDA.

Note: If DTC P2CC321 and P063C21 are set together with P056200, the car cannot be started on the first start attempt. If the car starts after a key cycle, the fault has disappeared. The check engine light will stay on for a certain number of driving cycles after the fault has disappeared.

Note: The DTC P056200 can also be set if ERS has been attempted with the mobile app before the car has been driven since the last ERS or if ERS is initiated shortly after vehicle shut-off (<10 minutes)

Note: After erasing these ISGM DTCs with VIDA, the vehicle must sleep for at least 10 minutes, or there is a risk that the DTCs won't be erased and will reappear at the next VIDA readout.

Your warranty claim will be rejected if the procedure in this TJ is not followed. This will be followed by using warranty claim control.

***An updated software for ISGM is planned for 2026, quarter 1.**

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
36002-3	Software Control Module downloading
36001-2	Diagnostic trouble codes read/reset
36100-2	Test drive acc. to Technical Journal

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 3210.