

# V O L V O

## Volvo Car USA LLC

## Technical Journal

Technical Journal Title Check Engine Light/DIM message and ISGM DTC P056200		Ref. No. TJ 37103.2.0	
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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

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

### DESCRIPTION:

If the customer experiences a "Check Engine Light" or a "Charging error" message in DIM together with DTC P056200 alone or in combination with the DTCs stated below, with no other symptoms, please follow advice under "Service".

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

ERS - Engine Remote Start

CEL - Check Engine Light

### CSC Customer Symptom Codes

Code	Description
6J	Text window and warning symbol/Low battery
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					2024-2025		-	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 a messenger to detect issues in the 48 volt system.**

The DTCs listed above are related to the 48-volt system and are not an indication of a fault with the ISGM hardware.

Several ISGM units that were replaced for these DTCs have been sent to the supplier for analysis with no fault found on all units.

Please follow the steps below:

NOTE: If the car has DTCs for other units that match customer complaints, perform fault tracing on those DTCs before proceeding.

1. Check if the car has the latest software version installed. If not, perform a *Total Upgrade* according to the TJ 31543.
2. If no newer software was available/downloaded, delete the DTCs and let the car go to sleep for 10+ minutes.
3. Perform a 48-volt system check with VIDA to see if the following units are active: ISGM, MVBM, MVCM, VCU1, CEM, ECM.
4. If a fault is found on any of the units, perform necessary fault tracing according to VIDA.
5. If no fault is found, test-drive the vehicle and check if the DTC(s) reoccur.
6. If the DTC(s) reoccur, perform necessary fault tracing according to VIDA.
7. If the issue is not solved after above steps, follow the instructions under the Vehicle Report section.
8. If no faults are found with the above steps, the vehicle can be released.

**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).** In many cases, the CEL for this DTC will turn off after several drive cycles but will still be stored when the vehicle arrives at the workshop.

Work is ongoing to develop software to prevent the DTC in this scenario. This TJ will be updated when new information is available.

### 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.

### 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 concern area "Vehicle Report" and sub concern area "Support needed", use function group 3210.