

Technical Journal

TITLE:

ISGM and charging error DTC's

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PARTNER: 3 US 7510 Volvo Car USA		ISSUE DATE: 2022-09-12	STATUS DATE: 2022-04-08
FUNC GROUP: 3210	FUNC DESC: Alternator	Page 1 of 3	

“Right first time in Time”

Rows beginning with * are modified

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

DESCRIPTION:

*updated DTC list + info under service.

ISGM = Integrated Starter Generator Module

If one or a combination of the listed DTC's are set please follow actions under “Service”.
These DTC's are only set as information related to the voltage level by the ISGM but not indicating a fault with the ISGM hardware.

Analysis of replaced ISGM units from the field usually shows no fault found.

CSC Customer Symptom Codes

Code	Description
LO	Alternator and charge regulator/Power supply problems
6J	Text window and warning symbol/Low battery
7G	Text window and warning symbol/Yellow symbol and text message
EA	Text window and warning symbol/Red symbol and text message
IV	Text window and warning symbol/Text message
8M	Warning lights and chimes/Other warning/chime problems
DL	Warning lights and chimes/Malfunction Indicator Light ("Check engine" light) indication/no indication
HA	Warning lights and chimes/Generator warning indication/no indication

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DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
ECM	P0A9400	Permanent
ECM	P0A9400	Intermittent
ECM	U012000	Permanent
ECM	U012000	Intermittent
ISGM	B163916	Permanent
ISGM	B163917	Permanent
ISGM	B163301	Permanent
ISGM	B163301	Intermittent
ISGM	B163001	Intermittent
ISGM	B163917	Intermittent
ISGM	B163001	Permanent
ISGM	B16331F	Permanent
ISGM	B16331F	Intermittent
ISGM	B163916	Intermittent

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224	06	B06KERS					2021-2022		0000001-9999999	202022-202216
224	L1	BL1KERS					2021-2023		0000001-9999999	202022-202316
225	06	B06KERS					2021-2022		0000001-9999999	202022-202316
225	06	B06KERS					2021-2023		0000001-9999999	202022-202316
225	L1	BL1KERS					2021-2023		0000001-9999999	202022-202316
227	L1	BL1KERS					2021-2023		0000001-9999999	202022-202316
235	06	B06KERS					2021-2023		0000001-9999999	202022-202316
235	L1	BL1KERS					2021-2023		0000001-9999999	202022-202316
236	06	B06KERS					2021-2023		0000001-9999999	202022-202316
236	L1	BL1KERS					2021-2023		0000001-9999999	202022-202316
238	06	B06KERS					2021-2023		0000001-9999999	202046-202316
238	L1	BL1KERS					2021-2023		0000001-9999999	202022-202316
246	06	B06KERS					2020-2023		0000001-9999999	201946-202316
246	06	B06KERS					2020-2023		0000001-9999999	201946-202316
246	L1	BL1KERS					2020-2023		0000001-9999999	201946-202316
256	06	B06KERS					2023-2023		0000001-9999999	0-0
256	L1	BL1KERS					2023-2023		0000001-9999999	0-0
536	L1	BL1KERS					2023-2023		0000001-9999999	0-0

SERVICE:

MVBM = Medium Voltage Battery Module

Do **not** replace the ISGM hardware in these cases but follow the faulttracing for the voltage system in VIDA.

Diagnostic data and frozen values for the DTC's have been updated in VIDA to support the fault tracing of the ISGM.

In most of the cases the DTC's are caused by issues with the MVBM. Follow instructions in VIDA for fault tracing.

Be sure the latest software is updated for all units.

*If the DTC on ECM is set, check if the ISGM is alive and can communicate. If the ISGM is alive, do **NOT** replace the ISGM. Erase the DTC's and let the car go.

Warranty claim info:

No warranty claim accepted for a job described in this TJ.

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.