

<h1>Technical Journal</h1>				
TITLE: Various CEM symptoms (Horn, Hazard flasher, DIM blank, No start, Stall)				
REF NO: TJ 27019	ISSUING DEPARTMENT: Technical Service	CAR MARKET: United States		
PARTNER: 3 US 7510 Volvo Cars North America		ISSUE DATE:		
FUNC GROUP: 3723	FUNC DESC: Electric distribution box; electric dist	YEAR	MONTH	DAY
		2012	11	26
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"Fixed Right — First Time"

Attachment

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
275							2011-2013		-	201020-201248

CSC Customer Symptom Codes

Code	Description
BB	Driving/Engine stalls/Unsure when/at all times
7B	Starting/Engine does not start/Engine does not turn/No clicking sound at start attempt
BE	Starting/Engine does not start/Engine does not turn/Unsure when/at all times
BJ	Starting/Engine does not start/Unsure when/at all times
XM	Alarm/Other alarm problems
JE	Hazard warning lights/Flashers/hazard lights do not work
HI	Horn/Does not work
7C	Gauges/Odometer not accurate/does not work
HE	Gauges/Other gauge problems
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
CC	Warning lights and chimes/Immobilizer indication/no indication
CP	Warning lights and chimes/Anti-lock Brake System (ABS) indication/no indication
DY	Warning lights and chimes/Antispin/antiskid (DSA, TRACS, STC, DSTC) indication/no indication



Code	Description
HA	Warning lights and chimes/Generator warning indication/no indication
KT	Warning lights and chimes/Supplemental Restraint System (SRS) indication/no indication
6E	Driver information/Wrong/missing

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
CEM	1A03	Intermittent
CEM	8F1D	Intermittent
CEM	DD20	Intermittent
CEM	DD21	Intermittent
CEM	DD30	Intermittent
CEM	1A03	Permanent
CEM	8F1D	Permanent

Text

CEM = Central Electronic Module

DIM = Driver Information Module

DESCRIPTION:

Some 2011-2013 XC90 vehicles may intermittently experience these symptoms:

- Horn activating on its own.
- Hazard warning flashers activating on their own.
- “Electrical System Service Required” displayed in DIM with CEM DTCs DD30, DD21 and/or DD20.
- No start, “Anti-skid service required” displayed in DIM with CEM DTC 1A03.
- Engine stalls, CEM DTC 8F1D.
- DIM going blank.

SERVICE:

Do not replace CEM. Follow fault tracing according to VIDA. Check all electrical connections.

If diagnostics indicate an internal CEM fault, download Software Product 31394631, “CEM Repair”.

VSTG OPERATION NUMBER:

36004-2 Software control module downloading, see VSTG