

Volvo Car USA LLC
Technical Journal

Technical Journal Title ASDM Fault tracing		Ref. No. TJ 31514.3.0	
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Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA	Function Group 3872	
Function Description Collision avoidance		Page Page 1 of 4	

Attachment

File Name	File Size
TJ_31514_1.jpg	0.0749 MB

Rows beginning with * are modified

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

DESCRIPTION:

*Vehicle type is updated.

Replaced ASDM units have been analyzed and many are fault free.

To prevent unnecessary replacements of ASDM and as a help to troubleshoot the Intellisafe system, we have developed some actions to take before replacing ASDM, see instructions under “Service” below.

ASDM = Active Safety Domain Master

CSC Customer Symptom Codes

Code	Description
AQ	Cruise control/Does not engage
1R	Front monitoring/Active safety/Lane Departure Warning does not work
1S	Front monitoring/Active safety/Driver Alert Control does not work
1X	Front monitoring/Active safety/Adaptive cruise control does not work
YA	Lane Keeping Aid (LKA)/Does not work
64	Pilot assist/Does not work
YB	Road Sign Information (RSI)/Does not work
IV	Text window and warning symbol/Text message

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
ASDM	U300087	Intermittent
ASDM	C1A6796	Intermittent
ASDM	C100193	Intermittent

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Control Module	Code	Fault Type
ASDM	U300044	Intermittent
ASDM	U300045	Intermittent
ASDM	U300046	Intermittent
ASDM	U300047	Intermittent
ASDM	U300049	Intermittent
ASDM	C1A6797	Intermittent
ASDM	C100197	Intermittent
ASDM	C100C15	Intermittent
ASDM	C100C11	Intermittent

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224							2019-9999		-	201835-999952
225							2019-9999		-	201817-999952
227							2019-9999		-	201846-999952
234							2017-2017		-	201617-201740
235							2017-9999		-	201624-999952
236							2017-9999		-	201646-999952
238							2018-9999		-	201717-999952
246							2018-9999		-	201717-999952
256							2016-9999		-	201505-999952
536							2019-9999		-	201817-999952
539							2022-9999		-	202122-999952

SERVICE:

- Check DTC's - following DTC's/failure modes should not lead to replacement of ASDM. Fault trace according to VIDA.
 - ASDM DTCs indicating lost communication with other ECU's – See attachment TJ_31514_1.jpg.
 - ASDM DTCs indicating Invalid data received from other ECU's – See attachment TJ_31514_1.jpg.
 - ASDM DTCs indicating Interrupted data received from other ECU's – See attachment TJ_31514_1.jpg.
 - ASDM DTCs indicating Corrupted data received from other ECU's – See attachment TJ_31514_1.jpg.
 - Customer complaints on functions, no DTC's.

- *2. ASDM DTC U300087 – Internal communication fault.
- If the vehicle is already equipped with the new ASDM (production part number: 32410190, spare part number: 36012070), reload or upgrade to the new software.
 - If the ASDM is new and the new software has already been installed, read out all DTCs in VIDA and attach the logfile in a Vehicle Report (Support Needed) for further investigations. Do not replace any parts.

Note: Also follow TJ31543.

3. If any of the following DTC's are set in ASDM and confirmed in VIDA, follow VIDA/TJ instructions.
- C1A6796 – Internal radar.
 - C100193 – Internal camera.
 - U300044, 45, 46, 47, 49 – Internal fault.
4. DIM message – “Windscreen sensors blocked – see manual”.
- Make sure that the windscreen is clean in the ASDM area.
 - C1A6797 – Radar blocked, follow TJ 31347.
 - C100197 – Camera blocked, follow VIDA instructions.
5. ASDM fan issues.
- DTC's related to the ASDM fan (see TJ_31514_1.jpg) shall never lead to the replacement of ASDM.
 - ASDM DTC C100C15/C100C11 shall be fault traced according to VIDA, other fan-related DTC's (see TJ_31514_1.jpg) can be disregarded.
6. If the customer complains about Intellisafe functions, make sure the car has the latest software and perform an ASDM calibration.
- Note: If software upgrade is needed, please follow TJ31543.
- It is very important that all the conditions described in VIDA are met.
 - It might take several attempts to perform a successful calibration.

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 3872.

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

V O L V O

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DTC	DTC
U010000	U2C5181
U012600	U2C5281
U013100	U2C5581
U014000	U2C5681
U015100	U2C5881
U015500	U2C6092
U023200	U2C6192
U023300	U2C6292
U101000	U2C6792
U101300	U2C6892
U101400	U2C6992
U101500	U2C6C92
U110E00	U2C6D92
U111600	U2C6E92
U111700	U2C7092
U111900	U2C7192
U111A00	U2C7292
U112500	U2C7392
U2C4481	U2C8292
U2C4581	U2C8C92
U2C4681	U2C8D92
U2C4781	U2D4483
U2C4981	U2D5783
U2C4A81	U2D5C83
U2C4B81	
U2C4C81	C100C71
U2C4D81	
U2C4E81	
U2C5081	

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