

# V O L V O

## Volvo Car USA LLC

## Technical Journal

Technical Journal Title <b>Park Assistance System enhanced troubleshooting</b>		Ref. No. <b>TJ 36965.1.0</b>	
Issuer (Dept.) <b>Technical Service</b>		Issue Date <b>7/11/24</b>	Status Date <b>7/24/24</b>
Car Market <b>United States and Canada</b>	Partner <b>3 US 7510 Volvo Car USA</b>	Function Group <b>3871</b>	
Function Description <b>Parking assistance</b>		Page <b>Page 1 of 3</b>	

### DESCRIPTION:

If the vehicle shows symptoms of a faulty PAS without specific parts defects together with one (or more) of mentioned DTCs below, follow the advice under "Service".

ASDM = Active Safety Domain Master

PAS = Parking Assistance Sensor

### CSC Customer Symptom Codes

Code	Description
KS	Front/rear park assist/Does not work

### DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
ASDM	B1B4897	Permanent
ASDM	B1B3897	Permanent
ASDM	B1B4497	Permanent
ASDM	B1B4297	Permanent
ASDM	B1B4097	Permanent
ASDM	B13F397	Permanent
ASDM	B13F497	Permanent
ASDM	B1B3697	Permanent
ASDM	B129D97	Permanent
ASDM	B129C97	Permanent

### Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224							2023-9999		-	202217-999952
225							2023-9999		-	202217-999952
227							2023-9999		-	202217-999952
234							2022-9999		-	202122-999952
235							2022-9999		-	202122-999952

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236							2022-9999		-	202122-999952
238							2022-9999		-	202122-999952
246							2022-9999		-	202122-999952
256							2023-9999		-	202217-999952
536							2021-9999		-	202037-999952
539							2022-9999		-	202139-999952

### SERVICE:

In case of customer complaints for the following:

#### 1) In case there are no DTCs, only False detection/warning:

- Water and/or dirt can be stuck between the sensor and the sensor holder.  
Verify that the holder is clean and test that water can easily be drained away via the drain hole and clean the sensor. For cleaning of sensors and holder use Isopropanol.
- The sensor is not centered in the bumper hole and therefore its membrane is in contact with the bumper. If so, the conduction of sound can be transmitted to a nearby sensor. The reason for this misalignment can be that the sensor cable is pulling the sensor so the sensor is tilted or the holder is not properly centered over the bumper hole.  
Verify that the sensor is centered in the middle of the bumper hole, that is not tilted and the sensor does not press on either side, and that the cable is not taut.
- If the rubber ring around the sensor is folded, damaged, or overpainted, this can lead to false warnings.  
Remedied by installing an unpainted rubber ring unfolded around the sensor.
- Loose sensor or loose sensor holder can lead to a false warning or a failure warning will be missing.  
Remedied by mounting the loose detail properly according to Volvo's instructions.
- The sensor membrane can be damaged by stones/blasting and corrosion can occur. This can cause an increased risk of false warnings or missing failure detection.  
Remedied by painting or changing the sensor.
- Verify that no accessories, original parts, or damaged outer parts of the car can be in the ultra-sound spreading region from the sensor.
- In case of false warnings without any DTC from a specific sensor.  
Verify by switching the sensor position between the right and left side symmetrically to check if symptoms follow the sensor or place.  
Verify that the registration plate or its holder is not in the area for detecting of the ultrasonic sensors.

### 2) If there is one or more confirmed DTCs:

- DTCs are registered as internal diagnostics of the sensor or control unit (ASDM) if something is wrong, sometimes it can set incorrect DTC.  
Verify by switching the sensor position between the right and left side symmetrically and erase DTC. If the error code was moved to the new sensor position, replace the sensor. If the DTC is the same as the new sensor at the original position, control cabling to the sensor and placement for the holder. Please follow the VIDA instructions before replacing that part.
- Interruptions can disturb the control unit (ASDM) and can cause DTC for several/all sensors at the same time.  
Verify if the DTC can be found in ASDM for cabling, remedied or replace the cable harness, and erase the DTC.

### 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
99922-2	General reimbursement acc. to TJ/QB

### 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 not needed", use function group 3871.