

# V O L V O

## Volvo Car USA LLC

## Technical Journal

Technical Journal Title Incorrect ambient temperature reading in DIM		Ref. No. TJ 37773.1.2	
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Car Market United States and Canada	Partner 3 US 7510 Volvo Car USA	Function Group 8715	
Function Description Automatic climate control		Page Page 1 of 2	

Rows beginning with \* are modified

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### DESCRIPTION:

If customer experiences an incorrect ambient temperature reading in DIM (Driver Information Module) or reduced A/C performance, follow the advice under Service.

### CSC Customer Symptom Codes

Code	Description
CR	Gauges/Ambient temperature gauge not accurate/does not work

### DTC Diagnostic Trouble Codes

### Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224							2019-2025		-	0-0
227							2019-2025		-	0-0
235							2019-2022		-	0-0
238							2019-2025		-	0-0
246							2019-2025		-	0-0
256							2019-2025		-	0-0

### SERVICE:

**The mirror assembly should not be replaced for this issue without consulting RTS.**

**Replacement of the mirror or ambient temperature sensor may not resolve the concern.**

Please refer to the wiring diagram in VIDA to locate the relevant circuit for the ambient temperature sensor (component 7/481) at the passenger door mirror harness.

Resistance should be checked against the temperature/resistance chart in VIDA, seen in the attachment or by following the VIDA pathway:

Information\\Product Specifications\\Specifications, electrical\electronic\\8 Body and interior\\87 Climate units\\875 auxiliary heater, fuel operated\\Component Specification: Ambient temperature sensor, external mirror 7/481

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When checking the ambient temperature sensor, please utilize the steps below:

**Step 1:** Graph the ambient temperature sensor parameter from the PDM using VIDA before any other steps are taken. Carefully remove the passenger door panel while continuing to monitor to see if the values change. Gently manipulate the driver door harness at the mirror connector and PDM. If the sensor reading is stable and accurate, move to step 3, otherwise continue to step 2.

**Step 2:** If the reading in step one was not accurate or fluctuated, disconnect the mirror and measure at 9/34 on pins 2 and 11 (toward the mirror). If this resistance value accurately reflects the ambient temperature where the vehicle is being stored, proceed to step 3. If it does not, submit a support needed vehicle report before proceeding to step 3.

**Step 3:** Inspect the PDM and mirror pins for proper pin tension and inspect the sensor assembly itself. Visually inspect the mirror connection for any signs of corrosion/fretting corrosion on the pins. If the affected terminal or connector is available to be replaced, replace it and continue to step 4. If not, open a **support needed** vehicle report and proceed to step 4.

**Step 4:** If no faults are found in the previous steps, apply a small amount of Stabilant 22A Electrical Contact Enhancer (available through Würth, Article number 0893622) to the ambient temperature circuit pins at the PDM as well as the mirror connector. Once applied, recheck the ambient temperature displayed in the DIM. If the reading is correct, you can release the vehicle. **If the vehicle has already had Stabilant applied, proceed to Step 5.**

**Step 5:** If Stabilant has already been applied, and the concern is still being noted by the customer, submit a **support needed** vehicle report with the current resistance measurements from the ambient temperature sensor. We also request that images of the mirror connector, PDM connector, and PDM itself be attached to the report when submitting. **The picture of the PDM should show the male terminals of connector A.**

### Abbreviations:

DIM (Drivers Informarion Module)

PDM (Passenger Door Module)

### VEHICLE REPORT:

Please follow reporting instructions mentioned under service.