

<b>Reference</b>	SSM76328
<b>Models</b>	Defender / L663 Discovery / L462
<b>Title</b>	Air Conditioning (AC) Inoperative and DTC B1B71-11 Stored
<b>Category</b>	Electrical
<b>Last modified</b>	21-May-2025 00:00:00
<b>Symptom</b>	208000 Climate Control

**Content****Situation:**

JLR Engineering investigations have identified reports of the Heating Ventilation and Air Conditioning (HVAC) evaporator sensor not operating as expected and Diagnostic Trouble Code (DTC) B1B71-11 'Evaporator Temperature Sensor - Circuit short to ground' stored.

**Cause:**

The cause is currently under investigation. Following the guidance within this SSM will assist Engineering with their investigations.

**Action:**

**Do not renew any components for this concern.**

Confirm DTC B1B71-11 is present, if yes follow the service request below.

**Service Request:**

To assist Engineering with determining the root cause, follow the below actions:

1. Check and record values within Heating Ventilation Air Conditioning (HVAC) ECU Data Identifiers (DID)
  - 995A (Evaporator Temperature)
  - 9A42 (Front Evaporator Target Temperature)
  - 9A43 (Front Evaporator Superheat Temperature - Calculated)

Without removing any components, check and record values.

- Continuity to ground connector pin C2H101A-24 (HVAC Sensor GND)
- Continuity to ground connector pin C2H406-2 (Sensor-Temperature-Evaporator)

2. Disconnect the C2H101A electrical connector from the HVAC, measure and record the resistance values between connector pins.

- a) C2H101A 22 and 24 (HVAC Sensor GND)
- b) C22-F1 5 and 6 (Instrument panel harness to A/C harness)

c) C22-F2 5 and 6 (Air conditioning (A/C) harness to instrument panel harness)

If resistance is present at connector pins C22-F2 5 and 6 but not at C22-F1 5 and 6 then inspect connector C22-F1 and splice SP13037.

If no resistance at connector pins C22-F2 5 and 6 then follow step 3.

3. Measure and record the resistance values between connector pins C2H406 1 and 2

a) If no resistance is present, replace the HVAC (Heater) assembly (includes heater temperature control sensor and HVAC (Air Conditioner wire/harness).

b) Raise an Electronic Product Quality Report (EPQR), which must include the below information:

- Reference to BES\_205
- Reference to P382781
- Reference to this SSM76328
- State the values measured from the checks above.
- Confirmation that the removed part(s) are being retained.

(Ref 000382781 / 2721)

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