

Lack of Cooling Power or Failure of Air-Conditioning System - Warning Message "High-Voltage Battery Cooling Malfunctioning" in Instrument Cluster (SY 119/25)

Vehicle Type: **911 GTS (992)**
911 4 GTS (992)

Model Year: **As of 2025 up to 2026**

Concerns: **Refrigerant line**

Symptom: **The customer complains about a lack of cooling power or the failure of the air-conditioning system. In addition, the warning message "High-voltage battery cooling malfunctioning" can light up in the instrument cluster.**

The following fault memory entries are stored in the fault memory of the thermal management control unit (J1024):

- **B16A284** - Refrigerant circuit, interior cooling, pressure too low (00EA61)
- **P053400** - Refrigerant circuit, pressure too low (00EA6A)

In the course of the diagnosis, an insufficient refrigerant quantity is also detected in the refrigerant circuit.

Cause: A damaged round seal at the engine compartment connection point of the refrigerant line from the air-conditioning compressor - evaporator (section from air-conditioning compressor to engine compartment connection point) and/or the refrigerant line from the air-conditioning compressor - condenser (section from air-conditioning compressor to engine compartment connection point) can cause a leak in the air-conditioning system.

Remedial Action: Check the air-conditioning system in accordance with the Workshop Manual using a leak detector in the area of the refrigerant line connection points in the engine compartment for leaks.
If a leak is detected in the area of the connection points, replace the affected round seal.

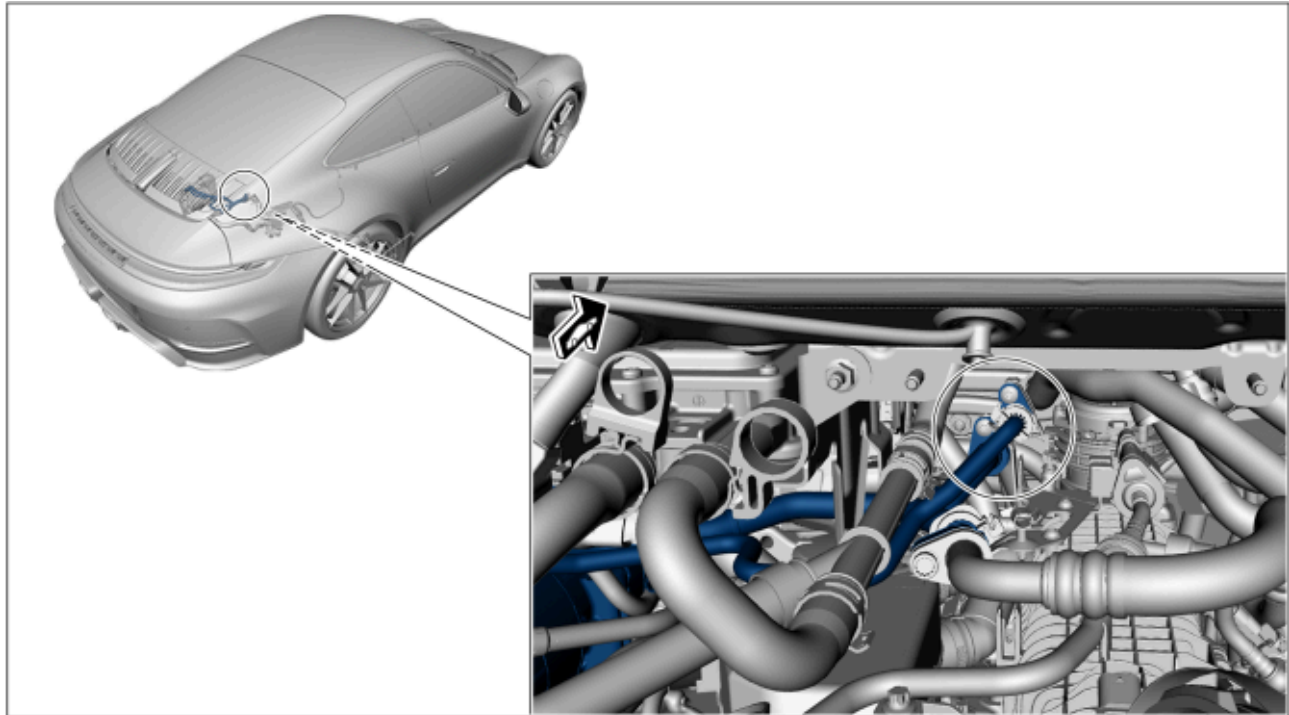


Information

Due to the reduced accessibility of the engine compartment connection point, a test with nitrogen or forming gas and a corresponding leak detector is recommended.

Installation

Position:



Refrigerant line connection point in engine compartment

Required parts and materials as needed

Parts Info:	Part No.	Designation – Location of use	Quantity
	95557374901	⇒ Round seal 11 x 2.5 Refrigerant line between air-conditioning compressor and condenser	1 piece
	and/or		
	95557374902	⇒ Round seal, 13.7 x 2.5 – Refrigerant line between air-conditioning compressor and evaporator	1 piece

Material: **Required materials** (usually already available in the Porsche Center)

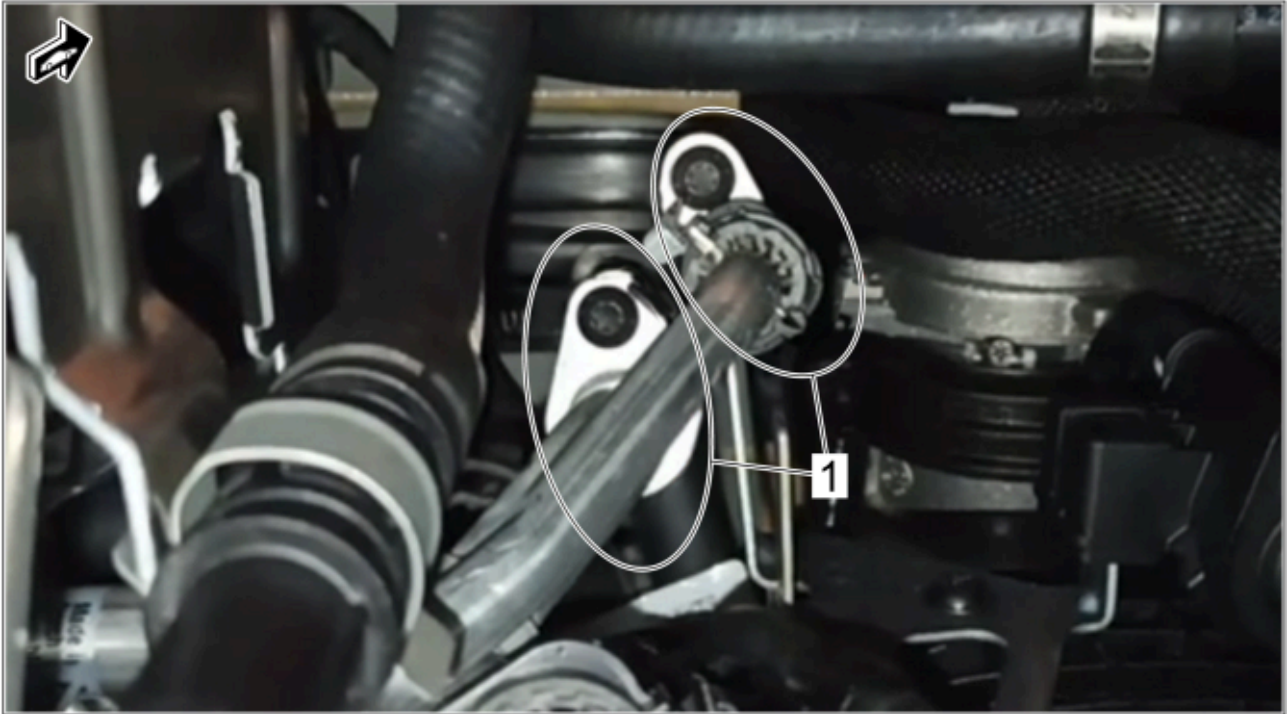
Part No.	Designation – Location of use	Quantity
....	⇒ Refrigerant compressor oil 1234yf – Air-conditioning system	As required
....	⇒ Refrigerant 1234yf – Air-conditioning system	As required

Required Tools

- Tools:
- **P90999 - Porsche Tester 4**
 - Battery charger with a current rating of **at least 90 A** and a **current and voltage-controlled charge map** for lithium starter batteries, e.g., **VAS 5908 - battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charge battery and vehicle electrical system'*
 - **Air-conditioning service device** recommended by Porsche for refrigerant **R1234yf**, e.g. **VAS 581 001A - Air-conditioning service device R1234yf**
 - Nitrogen or forming gas
 - Leak detector, commercially available

Checking air-conditioning system in the area of the refrigerant line connection points in the engine compartment for leaks

- Work Procedure:
- 1 Remove air cleaner housing (upper part).
⇒ *Workshop Manual '242519A2 Removing and installing air cleaner housing (upper part)'*
 - 2 Remove DME control unit.
⇒ *Workshop Manual '247019A5 Removing and installing DME control unit'*
 - 3 Check both refrigerant line connection points in the engine compartment for leaks ⇒ *Test areas for refrigerant line connection points in engine compartment -1-* in accordance with the Workshop Manual.
⇒ *Workshop Manual '870101A2 Checking air-conditioning system'*



Test areas for refrigerant line connection points in engine compartment

Assessment		Action
(✓)	Both refrigerant line connection points in the engine compartment have no leaks.	Round seals on the refrigerant lines are OK. Continue troubleshooting in some other way. Continue with Step ⇒ 5.
(x)	One or both refrigerant line connection points in the engine compartment have leaks.	The round seal on one or both refrigerant lines is not OK. Continue with Step ⇒ 4.

- 4 Replace round seal of the affected refrigerant line at the refrigerant line connection point in the engine compartment.

It is not necessary to remove the affected refrigerant line for this purpose.

For work procedure, see:

⇒ Workshop Manual '874319A1 Removing and installing refrigerant line from air-conditioning compressor to condenser (section from air-conditioning compressor to engine compartment connection point)'

and/or

⇒ Workshop Manual '874519A2 Removing and installing refrigerant line from air-conditioning compressor to evaporator (section from air-conditioning compressor to engine compartment connection point)'

- 5 Install DME control unit.
⇒ *Workshop Manual '247019A5 Removing and installing DME control unit'*
- 6 Install air cleaner housing (upper part).
⇒ *Workshop Manual '242519A2 Removing and installing air cleaner housing (upper part)'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
87450140	Check compressor/evaporator line (without aero package)	
87450141	Check compressor/evaporator line (with aero package)	
87454940	Rework compressor/evaporator line (without aero package, 1 O-ring defective)	
87454941	Rework compressor/evaporator line (with aero package, 1 O-ring defective)	
87454942	Rework compressor/evaporator line (without aero package, 2 O-rings defective)	
87454943	Rework compressor/evaporator line (with aero package, 2 O-rings defective)	

PCSS encryption:

Location (FES5)	87450	Compressor/evaporator line
Damage type (SA4)	5000	Leaks

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