

**Little or No Cooling Power from the Air-Conditioning System: Checking Refrigerant Lines on Air-Conditioning Compressor (174/23)**

**Change Overview**

Version	Date	Change
0	11/29/2023	▪ First Publication
1	01/27/2026	▪ Update of Order Types and MY

Model Line: **Panamera (971 / YAA / YAB)**  
**Cayenne (9YA / 9YB)**

Model Year: **As of 2019**

Equipment: Without alternative drive system (M-No. OK0)

Concerns: **Air-conditioning compressor**

Information: **Customers complain that the air-conditioning system cooling performance is too low. Drop formation of refrigerant compressor oil is detected at the low point of the air-conditioning compressor housing. ⇒ Drop formation on air-conditioning compressor**

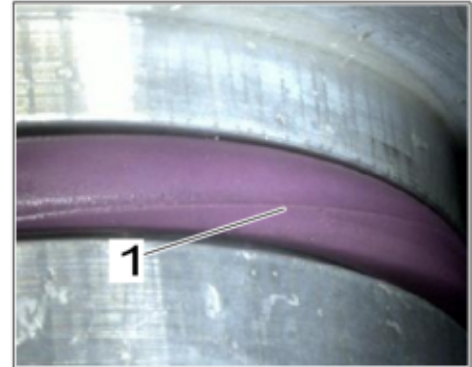


*Drop formation on air-conditioning compressor*

Cause: Insufficient sealing of the refrigerant lines on the air-conditioning compressor can lead to a leak in the air-conditioning system.

This leak can be caused by a twisted O-ring  $\Rightarrow$  *Twisted O-ring* installed in conjunction with the design-related burr on the O-ring  $\Rightarrow$  *Twisted O-ring -1-* or by a damaged O-ring on the refrigerant line.

As a result, refrigerant compressor oil can leak and collect at the flange of the refrigerant line and at the lowest point of the air-conditioning compressor.



*Twisted O-ring*

Action: If there is a complaint, check the respective O-ring of the affected refrigerant line and replace it if necessary.

Installation

Position:



*Installation location for air-conditioning compressor / refrigerant lines (shown on the Porsche Cayenne)*

### Required parts and materials

Parts Info:

Part No.	Designation – Location	Number
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N 10414402	⇒ Cheese head bolt with multiple-tooth head M8 x 28 – Refrigerant line to compressor	1 piece
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95557374903	⇒ O-ring, 23.8 x 2.4 – Refrigerant line between compressor and evaporator	1 piece
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or

#### Only for Panamera (971)

99970755741	⇒ O-ring 11.00 x 2.50 NX – Refrigerant line between compressor and condenser	1 piece
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or

#### Only for Cayenne (9YA / 9YB)

95557374901	⇒ O-ring, 11,0 x 2.5 – Refrigerant line between compressor and condenser	1 piece
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#### Additional parts required for Cayenne (9YA / 9YB) with Porsche Dynamic Chassis Control (PDCC) (M-No. 1P7)

PAF00072900	⇒ Hexagon socket head bolt, M8 x 20 – Front section of front underbody cover	3 pieces
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or

#### Additional parts required for Cayenne (9YA / 9YB) with engine protective plate (M-No. 1SF)

N 10082912	⇒ Hexagon screw (instrument cluster), self-locking M6 x 16 – Front engine protection on holder	3 pieces
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Materials:

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

Part No.	Designation – Location	Quantity
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**Vehicles with refrigerant R1234yf**

9A757390010	⇒ Refrigerant compressor oil 1234yf – Air-conditioning system	As required
....	⇒ Refrigerant 1234yf – Air-conditioning system	As required

**Vehicles with refrigerant R134a**

00004330579	⇒ Refrigerant compressor oil R134a – Air-conditioning system	As required
....	⇒ Refrigerant R134a – Air-conditioning system	As required

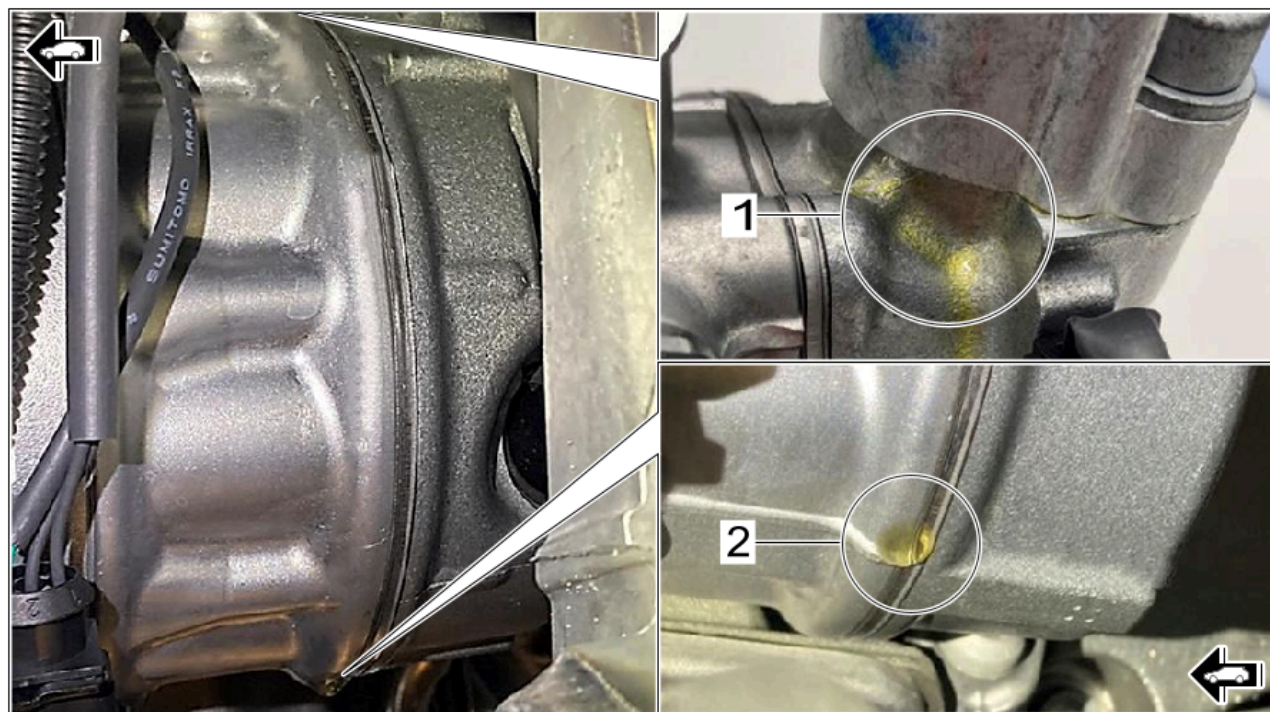
**Required tools**

## 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. **battery charger 90 A.VAS 5908 - battery charger 90 A**
- Torque wrench, 2-10 Nm (1.5-7.5 ftlb.), e.g., **V.A.G 1783 - Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
- Torque wrench, 20-100 Nm (15-74 ftlb.), e.g., **VAS 5820 - Torque wrench, 20-100 Nm (15-74 ftlb.)**
- Air conditioning service unit for R1234yf, e.g., **VAS 581 001A - air-conditioning service unit R1234yf** or air conditioning service unit for R134a, e.g., **VAS 6746A - air-conditioning service station R134a**
- **VAS 6122 - Engine plug set**

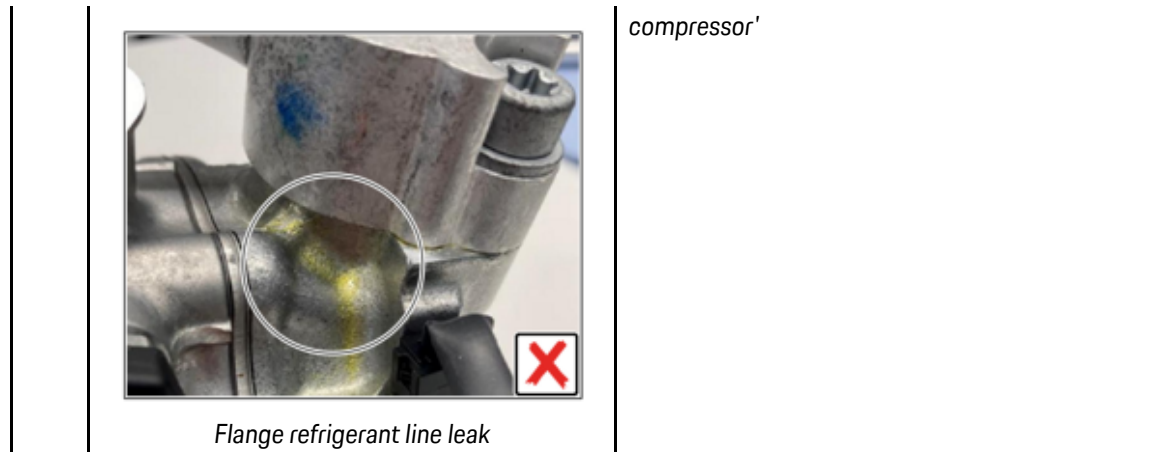
**Checking refrigerant compressor oil loss**

- Work Procedure: 1 Remove front underbody cover.  
⇒ *Workshop Manual '519219 Removing and installing cover for front underbody cover'*
- 2 Remove front left wheel housing liner.  
For procedure, see: ⇒ *Workshop Manual '505619 Removing and installing wheel housing liner front'*
- 3 Check and evaluate refrigerant compressor oil loss on the flange of the refrigerant line for the compressor - evaporator and refrigerant line for the compressor - condenser on the air-conditioning compressor. ⇒ *Oil loss on air-conditioning compressor*



Oil loss on air-conditioning compressor

	Assessment	Action
(✓)	No refrigerant compressor oil loss can be detected on flange ⇒ Oil loss on air-conditioning compressor -1- or air-conditioning compressor ⇒ Oil loss on air-conditioning compressor -2-.	Locate the complaint elsewhere. End of test. Continue with: ⇒ Technical Information '505619 Follow-up actions'
(✗)	Refrigerant compressor oil loss can be detected on flange ⇒ Oil loss on air-conditioning compressor -1- or air-conditioning compressor ⇒ Oil loss on air-conditioning compressor -2-. ⇒ Flange refrigerant line leak	Replace the O-ring of the affected refrigerant line. Continue with: ⇒ Technical Information '505619 Replacing O-ring refrigerant line on air-conditioning



### Replacing O-ring refrigerant line on air-conditioning compressor

- Work Procedure: 1 Replace the O-ring of the affected refrigerant line on the air-conditioning compressor.  
For procedure, see:  
⇒ Workshop Manual '874319 Removing and installing refrigerant line between compressor and condenser'  
⇒ Workshop Manual '874519 Removing and installing compressor/evaporator line (section from air-conditioning compressor to internal heat exchanger)'

### Follow-up actions

- Work Procedure: 1 Install the front left wheel housing liner.  
For procedure, see: ⇒ Workshop Manual '505619 Removing and installing wheel housing liner front'
- 2 Install front underbody panelling.  
⇒ Workshop Manual '519219 Removing and installing cover for front underbody cover'

### Working position and PCSS encryption (Panamera)

Labor position:

APOS	Labor operation	I No.
87450100	Checking refrigerant compressor oil loss	
87454910	Replacing O-ring refrigerant line on air-conditioning compressor	

PCSS encryption:

Location (FES5)	87340	Air-conditioning compressor
Damage type (SA4)	5000	Leaks

**Working position and PCSS encryption (Cayenne)**

Labor position:

<b>APOS</b>	<b>Labor operation</b>	<b>I No.</b>
87450100	Checking refrigerant compressor oil loss	
87454900	Replacing O-ring refrigerant line on air-conditioning compressor	

PCSS encryption:

<b>Location (FES5)</b>	87340	Air-conditioning compressor
<b>Damage type (SA4)</b>	5000	Leaks

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