

WNH7 - Replace Pressure Sensor for Air- Conditioning System (Workshop Campaign)

Model Line: **Macan (95B)**

Model Year: **As of 2021 up to 2022**

Concerns: **Pressure sensor for air-conditioning system**

Information: **A pressure sensor, which does not meet the required specifications, may have been installed on the condenser for the air-conditioning system on the affected vehicles.**
This can result in restricted function of the air conditioning system.

Action required: Replace pressure sensor on the condenser.



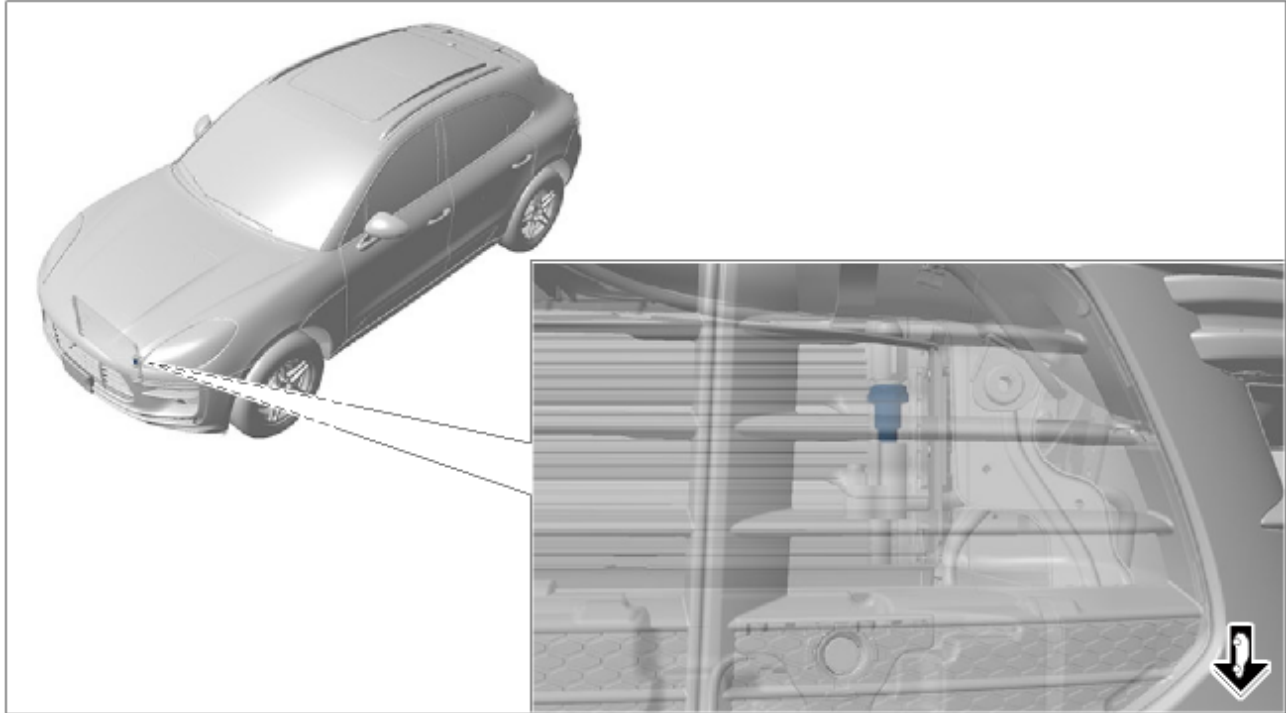
Information

Every vehicle is assigned just one campaign scope.

To find out which scope is assigned to the vehicle, see PCSS Vehicle Information.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information).

Installation
Position:



Installation position of pressure sensor

– Pressure sensor (**replace**)

Required parts and materials

Parts Info:	Part No.	Designation – Location	Number
	V04015800AT	⇒ Pressure sensor - Condenser	1 piece
	V04015800CA	⇒ O-ring - Pressure sensor	1 piece

Materials: **Required materials** (usually already available at the Porsche dealer):

Part No.	Designation	Number
...	Refrigerant oil ND12 (250 ml/ 8.45 fl oz container) Corresponds to Part No. 9A757390010. Alternatively, commercially available refrigerant oil – ND12 ¹⁾	approx. 15 ml/ 0.5 fl oz (Only if required)
...	Refrigerant R134a ²⁾	approx. 220 g/ 7.76 oz (Only if required)
or		
...	Refrigerant R1234yf ³⁾	approx. 200 g/ 7.05 oz (Only if required)

¹⁾ For warranty processing, enter Part No. WNH70000001 with the designation 'Refrigerant oil ND12' **as an external part** in the warranty claim; maximum cost: \$7.50

²⁾ For warranty processing, enter Part No. WNH70000002 with the designation 'Refrigerant R134a' **as an external part** in the warranty claim; maximum cost: \$6.25

³⁾ For warranty processing, enter Part No. WNH70000003 with the designation 'Refrigerant R1234yf' **as an external part** in the warranty claim; maximum cost: \$18.75



Information

Depending on usage and environmental influences, approx. 10% of the refrigerant can escape from the refrigerant circuit each year. This corresponds to 220 g for the refrigerant R134a and 200 g for the refrigerant R1234yf during a service life of two years.

If significantly more refrigerant has escaped from the refrigerant circuit, this needs to be checked. This work **cannot** be invoiced under the workshop campaign number.

Required tool

- Tools:
- Socket wrench, a/f 24, e.g. **T40363 - socket wrench, a/f 24**
 - 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, 6-50 Nm (4.5-37 ftlb.) e.g. **V.A.G 1331A - torque wrench, 6-50 Nm (4.5-37 ftlb.)**
 - **Air conditioning servicing equipment** for refrigerant **R134a** or **R1234yf** recommended by Porsche (depending on the refrigerant used). For recommended service equipment, see the Workshop Equipment and Special Tools Manual.

- Battery charger with a current rating of **at least 90 A** and - if required - **also with a current and voltage controlled charge map** for lithium starter batteries, e.g. **VAS 5908 90A battery charger**
- **9900 - PIWIS Tester 3**

Replacing air-conditioning system pressure sensor



Information

- For all work on the air-conditioning system that necessitates opening the refrigerant system, the system contents must first be disposed of in accordance with regulations.
- Dirt and moisture must be kept out of the air-conditioning system's pipes and hoses.
- Cleanliness must be ensured during all work.
- System components must never be cleaned on the inside with hot steam.
- Only use nitrogen for cleaning.
- When replacing a component, all openings must be closed off using suitable stoppers immediately after opening the system.

- Work Procedure: 1 Move the vehicle onto a lifting platform and raise it. ⇒ *Workshop Manual '4X00IN Lift vehicle'*
- 2 Drain refrigerant. ⇒ *Workshop Manual '870317 Draining and filling R1234yf refrigerant'*
- 3 **Only for Turbo and S vehicles:** Remove pressure pipe. ⇒ *Workshop Manual '214119 Removing and installing pressure pipe'*
- Observe all necessary preliminary work in accordance with the Workshop Manual that applies to the respective vehicle type.
- 4 Remove main headlight. ⇒ *Workshop Manual '941519 Removing and installing main headlights'*
- 5 Remove front bumper. ⇒ *Workshop Manual '631519 Removing and installing front bumper'*
- 6 Remove front retaining strips. ⇒ *Workshop Manual '631719 Removing and installing front retaining strip'*
- 7 Remove lower part of front lid lock. ⇒ *Workshop Manual '551719 Removing and installing lower part of front lid lock'*
- 8 Remove upper part of lock carrier. ⇒ *Workshop Manual '503819 Removing and installing upper part of lock carrier'*
- 9 Remove pressure switch. ⇒ *Workshop Manual '878319 Removing and installing pressure switch'*

- 10 **Install new** pressure switch with the part number V04015800AT and **new** O-ring with the part number V04015800CA. ⇒ *Workshop Manual '878319 Removing and installing pressure switch'*
- 11 Install upper part of lock carrier. ⇒ *Workshop Manual '503819 Removing and installing upper part of lock carrier'*
- 12 Installing lower part of front lid lock. ⇒ *Workshop Manual '551719 Removing and installing lower part of front lid lock'*
- 13 Installing front retaining strips. ⇒ *Workshop Manual '631719 Removing and installing front retaining strip'*
- 14 Install front bumper. ⇒ *Workshop Manual '631519 Removing and installing front bumper'*
- 15 Install main headlights. ⇒ *Workshop Manual '941519 Removing and installing main headlights'*
- 16 **Only for Turbo and S vehicles:** Installing pressure pipe. ⇒ *Workshop Manual '214119 Removing and installing pressure pipe'*
- 17 **If installed:** Adjust control unit for distance measuring sensor. For instructions, see ⇒ *Workshop Manual '278515 Adjusting control unit for distance measuring sensor'*
- 18 **If installed:** Calibrate Surround View camera. For instructions, see ⇒ *Workshop Manual '917225 Calibrating Surround View camera'*
- 19 Add refrigerant. ⇒ *Workshop Manual '870317 Draining and filling R1234yf refrigerant'*
- 20 Lower the vehicle and remove it from the lifting platform. ⇒ *Workshop Manual '4X00IN Lift vehicle'*
- 21 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing



Information

The specified labor time was determined specifically for carrying out this campaign and includes all necessary preliminary work and rework.

The labor time may differ from the working times published in the Labor Operation List in the PCSS.

Scope 1: **Replacing air-conditioning system pressure sensor**

Only relevant for vehicles **without** adaptive cruise control (**8T1, 8T6**) and **without** Surround View camera (**KA0, KA2, 7X8**).

Labor time:

Replacing air-conditioning system pressure sensor

Labor time: **329 TU**

Includes: Draining and filling refrigerant
 Removing and installing front bumper
 Removing and installing upper part of lock carrier

Parts required:

V04015800AT	Pressure sensor	1 piece
V04015800CA	O-ring	1 piece

Required materials (usually already available at the Porsche dealer):

WNH70000001 ¹⁾	Refrigerant oil ND12 (250 ml/ 8.45 fl oz container)	1 piece
---------------------------	---	---------

WNH70000002 ²⁾	Refrigerant R134a	1 piece
---------------------------	-------------------	---------

or

WNH70000003 ³⁾	Refrigerant R1234yf	1 piece
---------------------------	---------------------	---------

¹⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil ND12' **as an external component** in the warranty claim; maximum cost: \$7.50

²⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R134a' **as an external component** in the warranty claim; maximum cost: \$6.25

³⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R1234yf' **as an external component** in the warranty claim; maximum cost: \$18.75

⇒ **Damage code WNH7 066 000 2**

Scope 2:

Replacing air-conditioning system pressure sensor

Only relevant for vehicles with **adaptive cruise control (8T3)** and **without** Surround View camera (**KA0, KA2, 7X8**).

Labor time:

Replacing air-conditioning system pressure sensor

Labor time: **394 TU**

Includes: Draining and filling refrigerant
 Removing and installing front bumper
 Removing and installing upper part of lock carrier
 Adjusting control unit for distance measuring sensor

Parts required:

V04015800AT	Pressure sensor	1 piece
V04015800CA	O-ring	1 piece
Required materials (usually already available at the Porsche dealer):		
WNH70000001 ¹⁾	Refrigerant oil ND12 (250 ml/ 8.45 fl oz container)	1 piece
WNH70000002 ²⁾	Refrigerant R134a	1 piece
or		
WNH70000003 ³⁾	Refrigerant R1234yf	1 piece
<p>¹⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil ND12' as an external component in the warranty claim; maximum cost: \$7.50</p> <p>²⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R134a' as an external component in the warranty claim; maximum cost: \$6.25</p> <p>³⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R1234yf' as an external component in the warranty claim; maximum cost: \$18.75</p>		
⇒ Damage code WNH7 066 000 2		

Scope 3: **Replacing air-conditioning system pressure sensor**

Only relevant for vehicles with **Surround View camera (KA6, 8A4)** and **without Adaptive cruise control (8T1, 8T6)**.

Labor time:		
Replacing air-conditioning system pressure sensor		Labor time: 391 TU
Includes:	Draining and filling refrigerant	
	Removing and installing front bumper	
	Removing and installing upper part of lock carrier	
	Calibrating Surround View camera	
Parts required:		
V04015800AT	Pressure sensor	1 piece
V04015800CA	O-ring	1 piece
Required materials (usually already available at the Porsche dealer):		
WNH70000001 ¹⁾	Refrigerant oil ND12 (250 ml/ 8.45 fl oz container)	1 piece
WNH70000002 ²⁾	Refrigerant R134a	1 piece

orWNH70000003 ³⁾ Refrigerant R1234yf 1 piece

¹⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil ND12' **as an external component** in the warranty claim; maximum cost: \$7.50

²⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R134a' **as an external component** in the warranty claim; maximum cost: \$6.25

³⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R1234yf' **as an external component** in the warranty claim; maximum cost: \$18.75

⇒ **Damage code WNH7 066 000 2**Scope 4: **Replacing air-conditioning system pressure sensor**

Only relevant for vehicles with **adaptive cruise control (8T3)** and with **Surround View camera (KA6, 8A4)**.

Labor time:Replacing air-conditioning system pressure sensor Labor time: **446 TU**

Includes: Draining and filling refrigerant
Removing and installing front bumper
Removing and installing upper part of lock carrier
Adjusting control unit for distance measuring sensor
Calibrating Surround View camera

Parts required:

V04015800AT Pressure sensor 1 piece

V04015800CA O-ring 1 piece

Required materials (usually already available at the Porsche dealer):WNH70000001 ¹⁾ Refrigerant oil ND12 (250 ml/ 8.45 fl oz container) 1 pieceWNH70000002 ²⁾ Refrigerant R134a 1 piece**or**WNH70000003 ³⁾ Refrigerant R1234yf 1 piece

- 1) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil ND12' **as an external component** in the warranty claim; maximum cost: \$7.50
- 2) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R134a' **as an external component** in the warranty claim; maximum cost: \$6.25
- 3) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R1234yf' **as an external component** in the warranty claim; maximum cost: \$18.75

⇒ Damage code WNH7 066 000 2

Warranty processing



Information

The specified labor time was determined specifically for carrying out this campaign and includes all necessary preliminary work and rework.

The labor time may differ from the working times published in the Labor Operation List in the PCSS.

Scope 1 to 4: **Not** relevant for this vehicle type.

Scope 5: **Replacing air-conditioning system pressure sensor**

Only relevant for vehicles **without** adaptive cruise control (**8T1, 8T6**) and **without** Surround View camera (**KA0, KA2, 7X8**).

Labor time:		
Replacing air-conditioning system pressure sensor		Labor time: 357 TU
Includes:	Draining and filling refrigerant	
	Removing and installing front bumper	
	Removing and installing upper part of lock carrier	
Parts required:		
V04015800AT	Pressure sensor	1 piece
V04015800CA	O-ring	1 piece
Required materials (usually already available at the Porsche dealer):		
WNH70000001 ¹⁾	Refrigerant oil ND12 (250 ml/ 8.45 fl oz container)	1 piece
WNH70000002 ²⁾	Refrigerant R134a	1 piece
or		

WNH70000003 ³⁾ Refrigerant R1234yf 1 piece

¹⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil ND12' **as an external component** in the warranty claim; maximum cost: \$7.50

²⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R134a' **as an external component** in the warranty claim; maximum cost: \$6.25

³⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R1234yf' **as an external component** in the warranty claim; maximum cost: \$18.75

⇒ **Damage code WNH7 066 000 2**

Scope 6: **Replacing air-conditioning system pressure sensor**

Only relevant for vehicles with **adaptive cruise control (8T3)** and **without** Surround View camera (**KA0, KA2, 7X8**).

Labor time:

Replacing air-conditioning system pressure sensor Labor time: **422 TU**

Includes: Draining and filling refrigerant
Removing and installing front bumper
Removing and installing upper part of lock carrier
Adjusting control unit for distance measuring sensor

Parts required:

V04015800AT Pressure sensor 1 piece

V04015800CA O-ring 1 piece

Required materials (usually already available at the Porsche dealer):

WNH70000001 ¹⁾ Refrigerant oil ND12 (250 ml/ 8.45 fl oz container) 1 piece

WNH70000002 ²⁾ Refrigerant R134a 1 piece

or

WNH70000003 ³⁾ Refrigerant R1234yf 1 piece

- 1) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil ND12' **as an external component** in the warranty claim; maximum cost: \$7.50
- 2) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R134a' **as an external component** in the warranty claim; maximum cost: \$6.25
- 3) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R1234yf' **as an external component** in the warranty claim; maximum cost: \$18.75

⇒ **Damage code WNH7 066 000 2**

Scope 7: **Replacing air-conditioning system pressure sensor**

Only relevant for vehicles with **Surround View camera (KA6, 8A4)** and **without** Adaptive cruise control **(8T1, 8T6)**.

Labor time:

Replacing air-conditioning system pressure sensor Labor time: **419 TU**
 Includes: Draining and filling refrigerant
 Removing and installing front bumper
 Removing and installing upper part of lock carrier
 Calibrating Surround View camera

Parts required:

V04015800AT	Pressure sensor	1 piece
V04015800CA	O-ring	1 piece

Required materials (usually already available at the Porsche dealer):

WNH70000001	¹⁾ Refrigerant oil ND12 (250 ml/ 8.45 fl oz container)	1 piece
WNH70000002	²⁾ Refrigerant R134a	1 piece
or		
WNH70000003	³⁾ Refrigerant R1234yf	1 piece

- 1) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil ND12' **as an external component** in the warranty claim; maximum cost: \$7.50
- 2) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R134a' **as an external component** in the warranty claim; maximum cost: \$6.25
- 3) For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R1234yf' **as an external component** in the warranty claim; maximum cost: \$18.75

⇒ **Damage code WNH7 066 000 2**

Scope 8: **Replacing air-conditioning system pressure sensor**

Only relevant for vehicles with **adaptive cruise control (8T3)** and with **Surround View camera (KA6, 8A4)**.

Labor time:

Replacing air-conditioning system pressure sensor Labor time: **474 TU**

Includes: Draining and filling refrigerant
 Removing and installing front bumper
 Removing and installing upper part of lock carrier
 Adjusting control unit for distance measuring sensor
 Calibrating Surround View camera

Parts required:

V04015800AT	Pressure sensor	1 piece
V04015800CA	O-ring	1 piece

Required materials (usually already available at the Porsche dealer):

WNH70000001 ¹⁾	Refrigerant oil ND12 (250 ml/ 8.45 fl oz container)	1 piece
WNH70000002 ²⁾	Refrigerant R134a	1 piece
or		
WNH70000003 ³⁾	Refrigerant R1234yf	1 piece

¹⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil ND12' **as an external component** in the warranty claim; maximum cost: \$7.50

²⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R134a' **as an external component** in the warranty claim; maximum cost: \$6.25

³⁾ For warranty processing, enter the corresponding part number with the designation 'Refrigerant oil R1234yf' **as an external component** in the warranty claim; maximum cost: \$18.75

⇒ **Damage code WNH7 066 000 2**

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2022 Porsche Cars North America, Inc.