

WMA3 – Replacing Wheel Bearing Housing (Workshop Campaign)

Vehicle Type: **911 Turbo (992)/911 Turbo S (992)**

Model Year: **As of 2020 up to 2021**

Concerns: **wheel bearing housing**

Information: **There is a possibility that one or more taper bushings were not pressed into the wheel bearing housing reliably due to a temporary manufacturing fault.**

An eccentric deviation during the pressing-in process may have caused chips to form between the joining parts. Under extreme driving conditions, these chips could reduce the remaining life span of the affected components.



Information

Relevant for 911 Turbo S and Turbo (992): The transverse control arm connection on the wheel bearing housing must first be checked due to a change to the wheel carrier design during production.

If it has an, M12 threaded joint, install new wheel bearing housing with new transverse control arms on the front axle, see ⇒ *Technical Information 'Spare parts requirements for wheel carrier/transverse control arm on front axle - Check component pairing, a mixed installation is not permitted (158/20)'*.

Action required: To prevent this from happening, the affected wheel bearing housing must be replaced.



Information

Every vehicle is assigned just **one campaign scope**.

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

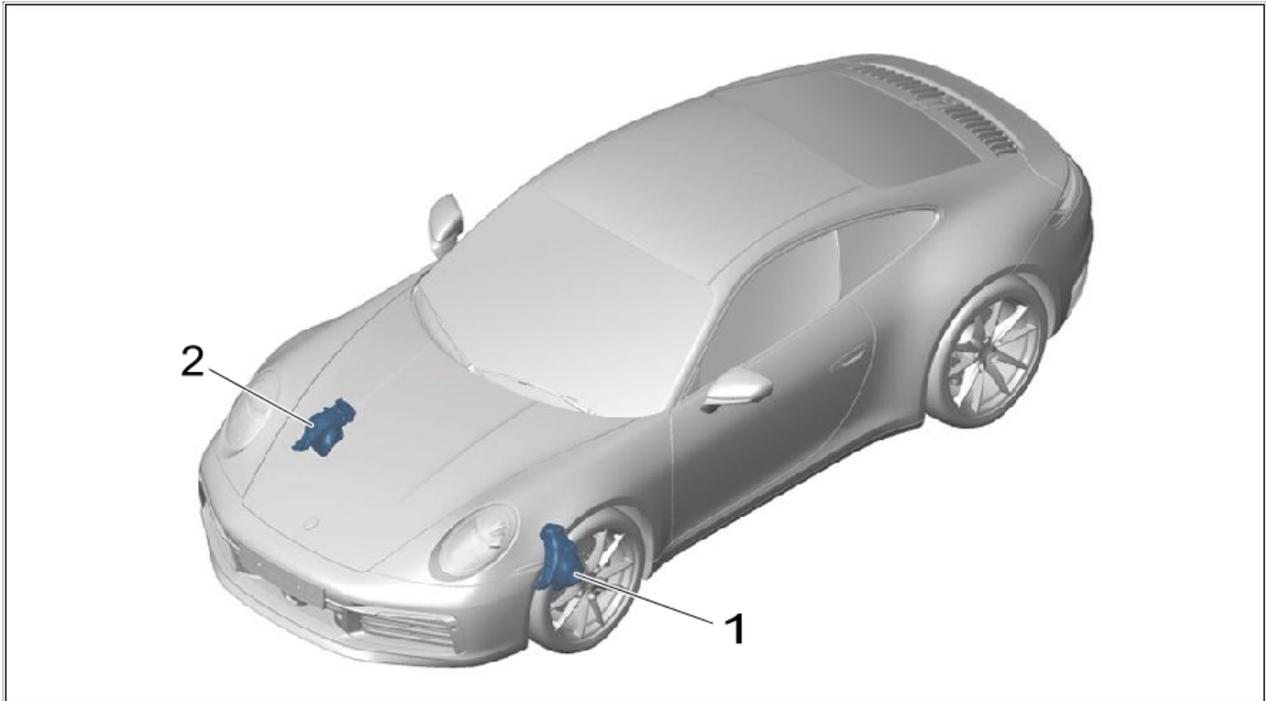
Scope 1-17: Not valid for this vehicle type.

A simplified overview of the scopes is provided in the table below.

Scope	Suspension with PDCC (M-no.: 1P7)		Rear axle steering (M-no.: 0N5)	PCCB brake system (M-no.: 1LQ/ 1LX)	Affected area		
	yes	no			Left	Right	Left + Right
18	X		X	X			X
19		X	X	X			X

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

Installation Position:



Installation position of wheel bearing housing

- 1 – Front left wheel bearing housing (**exchange, depending on scope**)
- 2 – Front right wheel bearing housing (**exchange, depending on scope**)

Parts required

Parts Info: **Vehicles with assigned campaign scope 18**

Part No.	Designation – Use	Qty.
992407245CY	⇒ Left pivot bearing	1 ea.
992407246CY	⇒ Right pivot bearing	1 ea.
9P1407621	⇒ Angular-contact ball bearing – Pivot bearing	2 ea.
WHT007021	⇒ Hexagon nut, self-locking, M22 x 1.5 – Drive shaft	2 ea.

PAF008758	⇒ Hexagon flange bolt, M10 x 50 – Adapter (PDCC, M-no. 1P7)	4 ea.
PAF908088	⇒ Hexagon collar nut, self-locking, M12 x 1.5 – Tie-rod ball	2 ea.
PAF100829	⇒ Hexagon-head bolt (combination), M6 x 16 – Brake disc cover plate	6 ea.
WHT006151	⇒ Hexagon collar nut, self-locking, M14 x 1.5 – Lower trailing arm	2 ea.
PAF008742	⇒ Hexagon-head bolt, M12 x 1 x 5 x 70 – Spring strut	2 ea.
PAF909664	⇒ Hexagon collar nut, self-locking, M12 x 1.5 – Spring strut	2 ea.
WHT007021	⇒ Hexagon nut, self-locking with washer, M22 x 1.5 – Wheel hub	2 ea.
N 10456004	⇒ Internal hexagon round countersunk screw, self-locking, M6 x 12 – Brake disc	4 ea.
WHT008186	⇒ Cheese head bolt, M12 x 1.5 x 62 (M-no. 1LQ, 1LX) – Brake calliper	4 ea.

Parts Info: **Vehicles with assigned campaign scope 19**

Part No.	Designation – Use	Qty.
992407245CY	⇒ Left pivot bearing	1 ea.
992407246CY	⇒ Right pivot bearing	1 ea.
9P1407621	⇒ Angular-contact ball bearing – Pivot bearing	2 ea.
WHT007021	⇒ Hexagon nut, self-locking, M22 x 1.5 – Drive shaft	2 ea.
PAF909664	⇒ Hexagon collar nut, self-locking, M12 x 1.5 – Connecting link (conventional)	2 ea.
PAF908088	⇒ Hexagon collar nut, self-locking, M12 x 1.5 – Tie-rod ball	2 ea.
PAF100829	⇒ Hexagon-head bolt (combination), M6 x 16 – Brake disc cover plate	6 ea.

WHT006151	⇒ Hexagon collar nut, self-locking, M14 x 1.5 – Lower trailing arm	2 ea.
PAF008742	⇒ Hexagon-head bolt, M12 x 1 x 5 x 70 – Spring strut	2 ea.
PAF909664	⇒ Hexagon collar nut, self-locking, M12 x 1.5 – Spring strut	2 ea.
WHT007021	⇒ Hexagon nut, self-locking with washer, M22 x 1.5 – Wheel hub	2 ea.
N 10456004	⇒ Internal hexagon round countersunk screw, self-locking, M6 x 12 – Brake disc	4 ea.
WHT008186	⇒ Cheese head bolt, M12 x 1.5 x 62 (M-no. 1LQ, 1LX) – Brake calliper	4 ea.

Required materials

Materials: **Required materials** (usually already available in the Porsche Centre):

Part No.	Designation – Location	Quantity
00004302000	⇒ Mounting paste – Brake disc	As much as required (approx. 5 grams required per vehicle).
00004320683	⇒ Lubricant – Speed sensor	As much as required (approx. 2 grams required per vehicle).
9A791557601	⇒ Anti-corrosion wax – Threaded joint securing tie rod to wheel bearing housing	As much as required (approx. 2 grams required per vehicle).

Required tools

- Tools:
- VAG 1783 Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)
 - VAG 1331A Torque wrench, 6-50 Nm (4.5-37 ftlb.)
 - VAS 5820 Torque wrench, 20-100 Nm (15-74 ftlb.)
 - VAG 1332A or equivalent — Torque wrench, 40-200 Nm (30-148 ftlb.)
 - VAS 6942 Torque/torque angle wrench, 20-400 Nm (15-296 ftlb.)
 - V.A.G 1601 - Torque wrench 150 – 800 Nm (111 - 592 ftlb.)
 - 9794 - Assembly aid
 - 9796 - Socket wrench
 - VAS 6266A - or equivalent — Wheel installing trolley
 - 9229/1 - Puller hook

- 9546 - Screwdriver
- 9560 - Press-out tool
- VAS 6926 - or equivalent — Puller set
- 30-205 - Pressure piece
- 9694/3 - Press-on sleeve
- P297a - or equivalent — Press-out mandrel
- T10205A - Attachments
- T10450 - Pressure piece
- T10473 - Test card
- VAS 6961 - or equivalent — Separating device
- VW433 - Pressure piece
- VW454 - Pressure piece
- VW457 - Holding rails
- 9730 - Socket-wrench insert
- VAS 6826 - Steering wheel balance
- VAS 6830 - Wheel-alignment adapter for wheels with central lock
- VAS 6918 - Quick-clamping unit
- VAS 6350/2A - Spacing laser
- VAS 6350A - Calibration unit
- VAS 6430/1A - Adjustment device with reflector
- VAS 6430/3 - Mirror for adjustment device
- VAS 6430/6 - Night View Assist calibration unit
- 9900 - PIWIS Tester 3 with current PIWIS Tester software version.
- 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 battery charger, 90A**



Information

The new 911 (992) is equipped with either a **lithium starter battery** (I-no. J2A) or an **AGM starter battery** (I-no. J0V, J4K) as standard.

This depends on the following:

- Country version
- Model type
- Vehicle equipment

Lithium starter batteries must only be charged using a **suitable battery charger** that has a current and voltage-controlled charge map.

For further information about the battery chargers to be used, see ⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*.

Replacing front left and front right wheel bearing housing (campaign scope 18 and 19)



Information

Please note that the required subsequent work for calibrating the assistance systems listed below can vary depending on equipment variant:

- ACC / Distance measuring sensor control unit (8T3, 3V1)
- Front camera (QK1, QK3)
- Infrared camera (9R1)

- Work Procedure:
- 1 Remove front left and front right wheel bearing housing ⇒ *Workshop Manual '405019 Removing and installing wheel bearing housing'*.
 - 2 Replace front left and front right wheel bearing housing. For instructions, see ⇒ *Workshop Manual '405755 Replacing front wheel bearing'*.
 - 3 Perform suspension alignment at front and rear ⇒ *Workshop Manual '449503 Performing suspension alignment at front and rear'*.
 - 4 Enter the campaign in the Warranty and Maintenance booklet. For warranty invoicing, see ⇒ *Technical Information '449503 Warranty processing', Scope 18 or 19.*

Warranty processing



Information

The specified working times were determined specifically for carrying out this campaign and include all required preliminary and subsequent work.

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

Scope 1 - 17: Not relevant for this vehicle type.

Scope 18: **Replacing front left and right wheel bearing housing**

- Relevant for **911 Turbo (992) / 911 Turbo S (992)**
- Relevant for vehicles with **Porsche Dynamic Chassis Control (PDCC) (M-no. 1P7)**

Working time:

Replacing front left and right wheel bearing housing

Labor time: **581 TU**

- Includes:
- Adjusting distance measuring sensor
 - Calibrating front camera
 - Programming infrared camera
 - Checking and adjusting steering-angle sensor for PSM
 - Adjusting and measuring vehicle front and rear
 - Installing and removing front left and right wheel-bearing housing
 - Replacing front wheel bearing at the left and right

Required parts:

992407245CY	Left pivot bearing	1 ea
992407246CY	Right pivot bearing	1 ea
9P1407621	Angular-contact ball bearing	2 ea.
WHT007021	Hexagon nut, self-locking, M22 x 1.5	2 ea.
PAF008758	Hexagon flange bolt, M10 x 50 – Adapter (PDCC, M-no. 1P7)	4 ea.
PAF908088	Hexagon collar nut, self-locking, M12 x 1.5	2 ea.
PAF100829	Hexagon-head bolt (combination), M6 x 16	6 ea.
WHT006151	Hexagon collar nut, self-locking, M14 x 1.5	2 ea.
PAF008742	Hexagon-head bolt, M12 x 1 x 5 x 70	2 ea.
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	1 ea
WHT007021	Hexagon nut, self-locking with washer, M22 x 1.5	2 ea.
N 10456004	Internal hexagon round countersunk screw, self-locking, M6 x 12	4 ea.
WHT008186	Cheese head bolt, M12 x 1.5 x 62 (M-no. 1LQ, 1LX)	4 ea.

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

00004302000	Mounting paste (100 gram/ 3.52 oz tube)	0.05 ea.
00004320683	Lubricating grease (80 gram/ 2.82 oz tube)	0.03 ea.
9A791557601	Anti-corrosion wax (100 gram/ 3.52 oz tube)	0,02 ea.

⇒ **Damage Code WMA3 066 000 2**

Scope 19: **Replacing front left and right wheel bearing housing**– Relevant for **911 Turbo (992) / 911 Turbo S (992)**– Relevant for vehicles **without** Porsche Dynamic Chassis Control (PDCC) (M-no. 1P7)**Working time:**

Replacing front left and right wheel bearing housing

Labor time: **581 TU**

Includes:

- Adjusting distance measuring sensor
- Calibrating front camera
- Programming infrared camera
- Checking and adjusting steering-angle sensor for PSM
- Adjusting and measuring vehicle front and rear
- Installing and removing front left and right wheel-bearing housing
- Replacing front wheel bearing at the left and right

Required parts:

992407245CY	Left pivot bearing	1 ea
992407246CY	Right pivot bearing	1 ea
9P1407621	Angular-contact ball bearing	2 ea.
WHT007021	Hexagon nut, self-locking, M22 x 1.5	2 ea.
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5 – Connecting link (conventional)	2 ea.
PAF908088	Hexagon collar nut, self-locking, M12 x 1.5	2 ea.
PAF100829	Hexagon-head bolt (combination), M6 x 16	6 ea.
WHT006151	Hexagon collar nut, self-locking, M14 x 1.5	2 ea.
PAF008742	Hexagon-head bolt, M12 x 1 x 5 x 70	2 ea.
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	1 ea
WHT007021	Hexagon nut, self-locking with washer, M22 x 1.5	2 ea.
N 10456004	Internal hexagon round countersunk screw, self-locking, M6 x 12	4 ea.
WHT008186	Cheese head bolt, M12 x 1.5 x 62 (M-no. 1LQ, 1LX)	4 ea.

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

00004302000	Mounting paste (100 gram/ 3.52 oz tube)	0.05 ea.
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00004320683	Lubricating grease (80 gram/ 2.82 oz tube)	0.03 ea.
9A791557601	Anti-corrosion wax (100 gram/ 3.52 oz tube)	0,02 ea.

⇒ Damage Code WMA3 066 000 2

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