

WRJ4 - Review Power Steering Gear and Replace if Necessary (Workshop Campaign)

Model Line: **Cayenne (9YA / 9YB)**

Model Year: **2024**

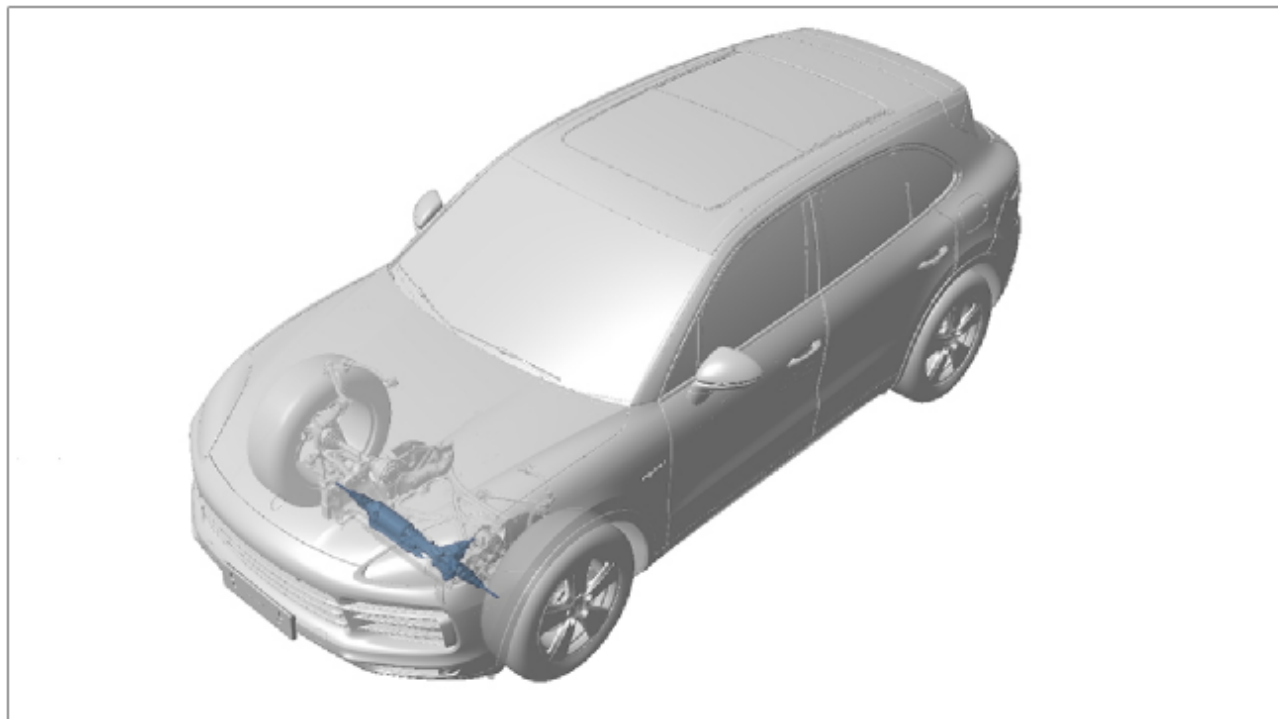
Concerns: **Power steering gear**

Cause: **There is a possibility that a power steering gear installed on the affected vehicles does not meet the required specifications.**

Action: Review power steering gear and replace if necessary.

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

Installation Position:



Installation position for power steering gear

Required parts



Information

The forecast failure rate is only **0.2%**.

Therefore, please order the required parts for replacing defective power steering gear **only if necessary**.

The **part numbers** of the **required parts and materials** for the respective vehicle can be seen in the **assigned scope**. For an overview of the campaign scopes, see: ⇒ *Technical Information 'Warranty processing'*.

For materials (lubricants) required for carrying out the action, see the corresponding Workshop Manual in PCSS. These lubricants are usually available in the Porsche Center.

Required tools for testing power steering gear

- Tool:
- 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.)**

Required tools for replacement of power steering transmission

- Tools:
- Threaded bolts for installing wheel
 - Assembly wedge
 - Plastic-coated assembly lever
 - 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 spanner, 6-50 Nm (4.5-37 ftlb.)**
 - Torque wrench, 40-200 Nm (30-148 ftlb.) e.g. **V.A.G 1332A - torque wrench, 40-200 Nm (30-148 ftlb.)**
 - Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 - battery charger 90 A**
 - **P90999 - PIWIS Tester 4**
 - **T10187 - Press-out tool**
 - **VAS 6927 - Tie-wrap pliers**
 - **VAS 6931A - Transmission and gearbox jack**
 - **VAS 6826 - Steering wheel balance**
 - **T40183 - Insertion tool**
 - **VAS 6918 - Quick-clamping unit**

Tools additionally required for vehicles with hybrid drive system PHEV (M-No. 0K3)

- **T40262 - Locking cap**
- **VAS 6410 - Contact surface cleaning set**
- **VAS 6558/9-7 High-Voltage Test Adapter HVR 40**
- **VAS 6558A - High-Voltage test adapter**

- VAS 6558A/45 - HV test adapter
- VAS 6883A - Insulated tool set
- WE 1383 - Hybrid warning signs

Tools additionally required for vehicles with adaptive air suspension (M-No. 1BK / 2MA) or Sport air suspension (M-No. 2MB)

- 9229/1 - Puller hook
- VAS 6918 - Quick-clamping unit

Tools additionally required for vehicles with Night View Assist (M no. 9R1)

- VAS 6350A - Calibration unit
- VAS 6430/1A - Adjustment device with reflector
- VAS 6430/6 - Night View Assist calibration unit

Tools additionally required for vehicles with multi-function camera (M-No. QK1)

- VAS 6350/2A - Spacing laser
- VAS 6430/4 - Lane Keep Assist calibration board
- Wheel center mounting VAS 6350
- VAS 6430/3 - Mirror for adjustment device

Tools additionally required for vehicles with automatic distance control (M-No. 3V2 / 8T8)


- VAS 6430/3 - Mirror for adjustment device

Check power steering gear

- Work Procedure: 1 Loosen front underbody cover.
For instructions, see: ⇒ *Workshop Manual '51921900 Removing and installing front underbody cover'*
- 2 Check power steering gear in the area of the left and right rubber-metal mounts. ⇒ *Rubber-metal mount (shown on the right side of the vehicle)*



Rubber-metal mount (shown on the right side of the vehicle)

Assessment		Action
(✓)	Cast housing of the power steering gear has no cracks.	Check OK. <ul style="list-style-type: none"> Secure cover for front underbody Entering campaign in Warranty and Maintenance logbook Scope 1 or Scope 2
(x)	The cast housing of the power steering gear has cracks.  <i>Cracking of rubber-metal mount</i>	Review not OK. Replace power steering gear. Continue with ⇒ <i>Technical Information '51921900 Replacing the power steering gear'</i>

Replacing power steering gear

Work Procedure: 1 **Vehicles with PHEV hybrid drive system (M-No. OK3):**

Isolate the high-voltage system from the power supply. ⇒ *Workshop Manual '2X00IN Deactivate/Start the high-voltage system'*

2 Remove power steering gear and install **new** power steering gear. ⇒ *Workshop Manual '489019 Removing and installing power steering gear'*

3 **Vehicles with PHEV hybrid drive system (M-No. OK3):**

Start the high-voltage system ⇒ *Workshop Manual '2X00IN Deactivating high-voltage electrical system from power supply/Starting high-voltage electrical system'*

4 Recode the power steering (EPS) control unit. ⇒ *Workshop Manual '489055 Replacing power steering gear'*

5 Teach **new** power steering gear. ⇒ *Workshop Manual '489025 Teach power steering gear'*

6 Enter the campaign in the Warranty and Maintenance logbook.

Warranty processing



Information

The specified labor time was determined specifically for carrying out this campaign and include all necessary preliminary and subsequent rework. The labor time may differ from the labor time published in the Labor Operation List in PCSS.

Scope 1: **Check power steering gear**

Valid for vehicles with the following equipment:

- **with** Porsche Dynamic Chassis Control (PDCC) (M-No. 1P7)
- **without** engine underbody protection plate (M-No. 1SA)

Labor time:

Check power steering gear Labor time: **39 TU**
 Includes: Loosen and fasten cover for underbody cover at the front

Required parts:

Part No.	Designation – Location	Quantity
PAF00072900	M8 x 20 hexagon socket head bolt – Front underbody cover	3 pieces

⇒ Damage number WRJ4 066 000 1

Scope 2: **Check power steering gear**

Valid for vehicles with the following equipment:

- **without** Porsche Dynamic Chassis Control (PDCC) (M-No. 1P0)
- **with** (M-No. 1SF) and **without** (M-No. 1SA) engine underbody protection plate

Labor time:

Check power steering gear Labor time: **39 TU**
 Includes: Loosen and fasten engine underbody protection plate at the front
 or
 Loosen and fasten cover for underbody cover at the front

Required parts for vehicles with engine underbody protection plate (M-No. 1SF)

Part No.	Designation – Location	Quantity
N 10082912	Hexagon flange bolt (combination), M6 x 16 – Engine under underbody protection plate	3 pieces
and		
9A791194602	Cheese head screw M8 x 20 – Engine under underbody protection plate	5 pieces
⇒ Damage number WRJ4 066 000 1		

Scope 3: **Check and replace power steering gear**

Valid for vehicles with the following equipment:

- Hybrid drive system PHEV (M-No. OK3)

Labor time:		
Check and replace power steering gear		Labor time: 570 TU
Includes:		
Deactivating and activating high-voltage system		
Removing and installing front cover		
Removing and installing front-axle support		
Removing and installing wheel		
Removing and installing front anti-roll bar		
Removing and installing power steering gear		
Removing and installing battery cover		
Connecting and disconnecting battery charger		
Connecting and disconnecting PIWIS Tester		
Reading out and erasing fault memories		
Check and adjust steering-angle sensor		
Adjusting distance measuring sensor control unit		
Programming night vision system control unit		
Calibrating front camera		
Required parts:		
Part No.	Designation – Location	Quantity
Required parts for left hand drive vehicles (M-No. LOL) without rear axle steering (M-No. ON1)		
9Y1423057A	Steering gear	1 piece
or		
Required parts for left hand drive vehicles (M-No. LOL) with rear axle steering (M-No. ON5)		

9Y1423056A	Steering gear	1 piece
or		
Required parts for right hand drive vehicles (M-No. LOR) without rear axle steering (M-No. ON1)		
PAB423055K	Steering gear	1 piece
or		
Required parts for right hand drive vehicles (M-No. LOR) with rear axle steering (M-No. ON5)		
9Y2423055L	Steering gear	1 piece
Additionally required parts		
N 10518405	Cheese head bolt with multiple-tooth head, self-locking, M8 x 30 – Universal joint on power steering gear	1 piece
WHT006662	Hexagon-head bolt (combination) M12 x 1.5 x 167 – Power steering gear on front axle carrier	2 pieces
WHT002305	Square nut, M12 x 1.5 – Power steering gear on front axle carrier	2 pieces
WHT006151	Hexagon collar nut, self-locking M14 x 1.5 – Tie-rod ball to wheel bearing housing	2 pieces
PAF005372	M12 x 1.5 x 51 cylinder head screw with multiple-tooth head – Front-axle support	2 pieces
PAF911511	Hexagon-head bolt (combination) M12 x 1.5 x 42 – Front-axle support	4 pieces
WHT002305	Square nut, M12 x 1.5 – Front-axle support	4 pieces
PAF91237901	Hexagon flange bolt (combination), M14 x 1.5 x 100 – Front-axle carrier, rear	4 pieces
PAF91184301	Hexagon-head bolt, M12 x 1.5 x 90 – Front axle carrier, front	4 pieces
Additional parts required for vehicles with Porsche Dynamic Chassis Control (PDCC) (M-No. 1P7)		
PAF015081	Hexagon collar nut, M12 – Connecting link (PDCC)	4 pieces
PAF007423	12-point socket, M12 x 65 – Connecting link (PDCC)	4 pieces
PAF00072900	M8 x 20 hexagon socket head bolt – Front underbody cover	3 pieces
Required parts for vehicles with engine underbody protection plate (M-No. 1SF)		
N 10082912	Hexagon flange bolt (combination), M6 x 16 – Engine under underbody protection plate	3 pieces

and

9A791194602 Cheese head screw M8 x 20 5 pieces
– Engine under underbody protection plate

⇒ **Damage number WRJ4 066 000 2**

Scope 4:

Check and replace power steering gear

Valid for vehicles with the following equipment:

- **without** PHEV hybrid drive system (**M-No. OK0**)

Labor time:

Check and replace power steering gear

Labor time: **570 TU**

Includes:

- Removing and installing front cover
- Removing and installing front-axle support
- Removing and installing wheel
- Removing and installing front anti-roll bar
- Removing and installing power steering gear
- Removing and installing battery cover
- Connecting and disconnecting battery charger
- Connecting and disconnecting PIWIS Tester
- Reading out and erasing fault memories
- Check and adjust steering-angle sensor
- Adjusting distance measuring sensor control unit
- Programming night vision system control unit
- Calibrating front camera

Required parts:

Part No.	Designation – Location	Quantity
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Required parts for left hand drive vehicles (**M-No. LOL**) **without** rear axle steering (**M-No. ON1**)

PAB423055J	Steering gear	1 piece
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or

Required parts for left hand drive vehicles (**M-No. LOL**) **with** rear axle steering (**M-No. ON5**)

9Y1423055L	Steering gear	1 piece
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or

Required parts for right hand drive vehicles (**M-No. LOR**) **without** rear axle steering (**M-No. ON1**)

PAB423055K	Steering gear	1 piece
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or

Required parts for right hand drive vehicles **(M-No. LOR) with rear axle steering (M-No. ON5)**

9Y2423055L	Steering gear	1 piece
N 10518405	Cheese head bolt with multiple-tooth head, self-locking, M8 x 30 – Universal joint on power steering gear	1 piece
WHT006662	Hexagon-head bolt (combination) M12 x 1.5 x 167 – Power steering gear on front axle carrier	2 pieces
WHT002305	Square nut, M12 x 1.5 – Power steering gear on front axle carrier	2 pieces
WHT006151	Hexagon collar nut, self-locking M14 x 1.5 – Tie-rod ball to wheel bearing housing	2 pieces
PAF005372	M12 x 1.5 x 51 cylinder head screw with multiple-tooth head – Front-axle support	2 pieces
PAF911511	Hexagon-head bolt (combination) M12 x 1.5 x 42 – Front-axle support	4 pieces
WHT002305	Square nut, M12 x 1.5 – Front-axle support	4 pieces
PAF91237901	Hexagon flange bolt (combination), M14 x 1.5 x 100 – Front-axle carrier, rear	4 pieces
PAF91184301	Hexagon-head bolt, M12 x 1.5 x 90 – Front axle carrier, front	4 pieces

Additional parts required for vehicles **with Porsche Dynamic Chassis Control (PDCC) (M-No. 1P7)**

PAF015081	Hexagon collar nut, M12 – Connecting link (PDCC)	4 pieces
PAF007423	12-point socket, M12 x 65 – Connecting link (PDCC)	4 pieces
PAF00072900	M8 x 20 hexagon socket head bolt – Front underbody cover	3 pieces

Required parts for vehicles **with engine underbody protection plate (M-No. 1SF)**

N 10082912	Hexagon flange bolt (combination), M6 x 16 – Engine under underbody protection plate	3 pieces
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and

9A791194602	Cheese head screw M8 x 20 – Engine under underbody protection plate	5 pieces
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⇒ Damage number WRJ4 066 000 2

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