

Technical Information

Service

64/26

ENU

4883

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Yellow Warning Message "Rear Axle Steering Has Failed" in Instrument Cluster: Replace Servo Motors for Rear Axle Steering (64/26)

Model Line: 911 (992)

Model Year: 2021 to 2026

Equipment: Rear axle steering (M-no. 05N)

Concerns: Servo motor for rear axle steering

Information: The customer complains that the yellow warning message "Rear-axle steering failed/Adapted driving permitted" appears in the instrument cluster.

This fault can occur due to an electronic interruption within the servo motor for rear axle steering.

One or several of the following fault memory entries is stored in the fault memory of the rear axle steering control unit:

- C1445F3 - Servo motor defective (000011)
- C1445F1 - Malfunction of the left servo motor (000014)
- C1445F2 - Malfunction of the right servo motor (000015)

Action: Replace servo motors for rear axle steering on the left and right.

Required parts

For all derivatives except 911 GT3

Parts:

Part no.	Designation - Location	Quantity
...*	> 1 piece(s) rear-axle control arm (- left) ... Rear-axle control arm - left	1 piece(s)
...*	> 1 piece(s) rear-axle control arm (- right) ... Rear-axle control arm - right	1 piece(s)
PAF909664	> 8 piece(s) hexagon collar nut, self-locking (M12 x 1.5) PAF909664 hexagon collar nut, self-locking M12 x 1.5 - servo motor for rear axle steering to wheel bearing	8 piece(s)

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	housing - trailing arm to wheel bearing housing - rear axle steering to wheel bearing housing	
WHT008736	> <u>4 piece(s) eccentric screw (M12 x 1.5 x 97)</u> <u>WHT008736</u> eccentric screw, M12 x 1.5 x 97 - servo motor for rear axle steering to wheel bearing housing	4 piece(s)
9A740735700	> <u>6 piece(s) plate</u> <u>9A740735700</u> plate - drive shaft	6 piece(s)
PAF008735	> <u>4 piece(s) hexagon-head bolt (M12 x 1.5 x 95)</u> <u>PAF008735</u> hexagon-head bolt, M12 x 1.5 x 95 - rear axle carrier side section to body	4 piece(s)
N 90916701	> <u>2 piece(s) hexagon collar nut, self-locking (M12 x 1.5) N</u> <u>90916701</u> hexagon collar nut, self-locking - rear axle carrier side section to body	2 piece(s)
PAF008735	> <u>2 piece(s) hexagon-head bolt (M12 x 1.5 x 95)</u> <u>PAF008735</u> hexagon-head bolt, M12 x 1.5 x 95 - rear axle carrier, outer	2 piece(s)
PAF008673	> <u>2 piece(s) hexagon-head bolt (M12 x 1.5 x 110)</u> <u>PAF008673</u> hexagon-head bolt, M12 x 1.5 x 110 - rear axle carrier, inner	2 piece(s)

PAF008674

> 2_piece(s)_hexagon_flange
bolt_(M12_x_1.5_x_105)
PAF008674
hexagon flange bolt, M12 x 1.5 x 105 2 piece(s)
- trailing arm to wheel bearing housing

WHT008676

> 4_piece(s)_hexagon-head
bolt_(M12_x_1.5_x_45)
WHT008676
hexagon-head bolt, M12 x 1.5 x 45 4 piece(s)
- strut to body

***Determine the variant of the servo motor for rear axle steering required for the respective vehicle using the vehicle identification number in the Porsche Spare Parts Catalogue (PET2).**

Additionally required parts for the following derivatives:

- 911 Carrera
- 911 Carrera T
- 911 Carrera 4
- 911 Targa 4

WHT008727

> 12_piece(s)_cylinder
screw_(M10_x_1_x_46.5)
WHT008727
cylinder screw M10 x 1 x 46.5 12 piece(s)
- drive shaft

Additionally required parts for the following derivatives:

- 911 Carrera S
- 911 Carrera 4S
- 911 Carrera GTS
- 911 Carrera 4 GTS
- 911 Targa 4S
- 911 Targa GTS
- 911 Targa 4 GTS
- 911 Turbo
- 911 Turbo S
- 911 Dakar

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WHT008727A	> 12 piece(s) cylinder screw (M10 x 1 x 46.5)	12 piece(s)
	WHT008727A cylinder screw, M10 x 1 x 46.5 - drive shaft	

Additionally required parts for vehicles with the following equipment:

- **With** Porsche Dynamic Chassis Control (PDCC) (M-no. 1P7)

9A700781900	> 2 piece(s) hexagon nut (M12) 9A700781900	2 piece(s)
	hexagon nut M12 - damper to anti-roll bar	

Additionally required parts for vehicles with the following equipment:

- **Without** Porsche Dynamic Chassis Control (PDCC) (M-no. 1P7)

PAF007957	> 2 piece(s) hexagon nut (M10) PAF007957	2 piece(s)
	hexagon nut, M10 - connecting link to anti-roll bar	

Only for 911 GT3:

Parts:

Part no.	Designation - Location	Quantity
...*	> 1 piece(s) rear-axle control arm (- left) ...	1 piece(s)
	Rear-axle control arm - left	
...*	> 1 piece(s) rear-axle control arm (- right) ...	1 piece(s)
	Rear-axle control arm, right	
PAF909664	> 10 piece(s) hexagon collar nut, self-locking (M12 x 1.5)	10 piece(s)
	PAF909664 hexagon collar nut, self-locking M12 x 1.5 - servo motor for rear axle steering to side section for rear	

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	axle carrier - rear axle carrier to rear axle carrier, top and bottom side section	
WHT008736	> <u>4 piece(s) eccentric screw (M12 x 1.5 x 97)</u> <u>WHT008736</u> eccentric screw, M12 x 1.5 x 97 - servo motor for rear axle steering on rear axle carrier side section	4 piece(s)
WHT008727	> <u>12 piece(s) cylinder screw (M10 x 1 x 46.5)</u> <u>WHT008727</u> cylinder screw M10 x 1 x 46.5 - drive shaft	12 piece(s)
95533219121	> <u>6 piece(s) plate</u> <u>95533219121</u> plate - drive shaft	6 piece(s)
PAF008735	> <u>4 piece(s) hexagon-head bolt (M12 x 1.5 x 95)</u> <u>PAF008735</u> hexagon-head bolt, M12 x 1.5 x 95 - rear axle carrier side section to body	4 piece(s)
N 90916701	> <u>2 piece(s) hexagon collar nut, self-locking (M12 x 1.5) N</u> <u>90916701</u> hexagon collar nut, self-locking M12 x 1.5 - rear axle carrier side section to body	2 piece(s)
N 10793603	> <u>2 piece(s) hexagon-head bolt (M12 x 1.5 x 60) N</u> <u>10793603</u> hexagon-head bolt M12 x 1.5 x 60 - rear axle carrier on rear axle carrier, upper side section	2 piece(s)

9A700867700	> 2 piece(s) hexagon-head bolt (M12 x 1.5 x 80) 9A700867700 hexagon-head bolt, M12 x 1.5 x 80 - rear axle carrier to rear axle carrier, lower side section	2 piece(s)
PAF909417	> 4 piece(s) cylinder screw with multiple-tooth head (M10 x 45) PAF909417 cylinder screw with multiple-tooth head M10 x 45 - strut to body	4 piece(s)

***Determine the variant of the servo motor for rear axle steering required for the respective vehicle using the vehicle identification number in the Porsche Spare Parts Catalogue (PET2).**

Required tools:

Tools:

- > P90999 – Porsche Tester 4th generation
- Battery charger with a current rating of **at least 90 A** and a **current and voltage-controlled charging characteristic** 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. **270689A2 Charging the vehicle electrical system battery**
- > VAS 6931A – Transmission and engine jack
- > 9730 – Socket-wrench insert
- > 9229/1 – Pull-off hook
- > VAS 6918 – Quick-clamping unit
- > VAS 6826 – Steering wheel balance
- > VAS 6266A – Wheel fitting trolley
- 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 ft lb)
- Torque wrench 6 – 50 Nm (4.5–37 ftlb.) e.g. > V.A.G. 1331A – Torque wrench 6–50 Nm (4.5–37 ft lb)
- Torque wrench 40–200 Nm (29–147 ftlb.) e.g. > V.A.G. 1332 – Torque wrench, 40–200 Nm (29–147 ft lb)

Only for vehicles with central wheel lock (M-no. 1PJ):

- > VAS 6830 – Wheel-alignment adapter for wheels with central lock
- Torque wrench 150–800 Nm (111–592 ftlb.) e.g. > V.A.G. 1601 – Torque wrench 150–800 Nm (111–592 ft lb)
- > 9794 – Assembly aid

Only for vehicles with ACC High End with Innodrive (M-no. 3V1):

- > VAS 6430/1A – Adjustment device with reflector
- > VAS 6430/3 – Mirror for adjustment device

Only for vehicles with Night View Assist (M-no. 9R1):

- > [VAS 6430/1A - Adjustment device with re lector](#)
- > [VAS 6430/6 - Calibration unit for Night View Assist](#)
- > [VAS 6350A - Calibration unit](#)

Only for vehicles with Real Top View (M-no. KA6) or multi-function camera (M-no. QK1/QK3).

- > [VAS 6430/1A - Adjustment device with re lector](#)
- > [VAS 6430/4 - Calibration board for Lane Keep Assist](#)
- > [VAS 6350A - Calibration unit](#)
- VAS 6350/2A - Spacing laser

Replacing servo motors for rear axle steering on the left and right

Work Procedure:

- 1 Replacing servo motors for rear axle steering on the left and right.

Work procedure, see:

488319A1 Removing and installing servo motor for rear axle steering

Labor position and PCSS encryption

Labor position:

Replace servo motor for rear axle steering

Replace servo motor for rear axle steering

Replace servo motors for rear axle steering

PCSS encryption:

Servo motor for rear axle steering

does not function in some cases

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