

Spare Parts Requirements for Rear-Axle Final Drive - Observe Specified Procedure (151/20)

Model Line: **Taycan (Y1A)**

Model Year: **2020**

Subject: **Spare parts requirements for rear-axle final drive**

Information: **Due to different software versions used during production of the rear-axle final drive, there is no guarantee that the software of the new final drive will match the vehicle software on model year L (2020) vehicles.**

Remedial Action: Check the part number of the new rear-axle final drive and also install a new servo motor if necessary. Following installation, teach the rear-axle final drive with new servo motor as described under ⇒ *Technical Information 'Replacing servo motor and adapting rear-axle final drive'*.



Information

Once the PIWIS Tester test software version **39.900.000** becomes available (probably from week 48/20), the procedure described in the TI (Technical Information) will no longer be necessary. For spare parts requirements in the event of repairs, proceed as described in the Workshop Manual, see ⇒ *Workshop Manual '373519 Removing and installing automatic transmission (with electric motor)'*.

Parts Info: Affected part numbers for which a new servo motor must be used.

Part No.	Designation
9J1901141B	Drive motor for electric drive on rear axle (complete)
9J1901153E	Drive motor for electric drive on rear axle (complete)
9J1901153D	Drive motor for electric drive on rear axle (complete)

Required tools

- Tools:
- **9900 - PIWIS Tester 3** with PIWIS Tester test software version **39.700.020** (or higher) installed
 - Battery charger with a current rating of at least 90 A, e.g. **VAS 5908 Battery charger, 90 A**

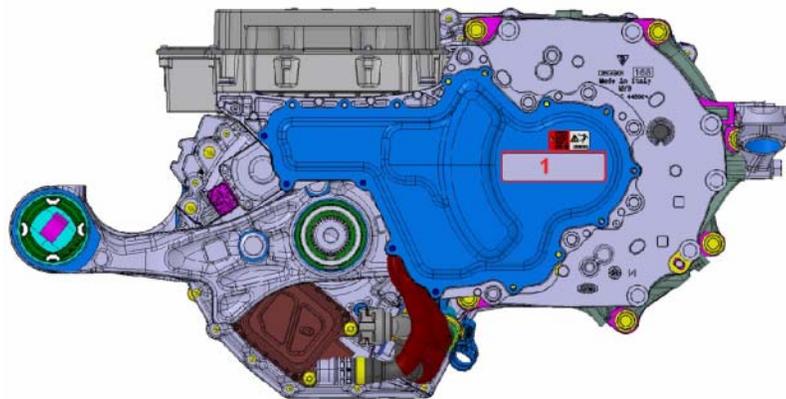
Parts required if necessary

Parts Info:

Part No.	Designation - Use	Qty.
OME325835E	⇒ Gear actuator - Rear axle differential	1 ea.
PAF009212	⇒ Round head screw - Gear actuator	2 ea.

Checking part number on new rear-axle final drive

Work Procedure: 1 Check part number on the new rear-axle final drive ⇒ *Label on rear axle differential -1-*.



Label on rear axle differential

- If the part number is 9J1901141B, 9J1901153E or 9J1901153D, a new servo motor must be used, see ⇒ *Technical Information '373519 Replacing servo motor and adapting rear-axle final drive'*.
- If the part number is **not** 9J1901141B, 9J1901153E or 9J1901153D, end of action required. Install rear-axle final drive as described in the Workshop Manual, see ⇒ *Workshop Manual '373519 Removing and installing automatic transmission (with electric motor)'*.

Replacing servo motor and adapting rear-axle final drive

Work Procedure: 1 **Install new** servo motor on the rear-axle final drive, see ⇒ *Workshop Manual '377519 Removing and installing servo motor (electric gear actuator)'*.

- 2 Install rear-axle final drive, see ⇒ *Workshop Manual '373519 Removing and installing automatic transmission (with electric motor)'*.

- 3 Connect and switch on battery charger.
- 4 Connect the PIWIS Tester to the vehicle and switch on the PIWIS Tester.
- 5 Establish operational readiness.
- 6 Start diagnostics.
- 7 Select the '**Engine electronics (DME)**' control unit in the control unit overview.
 - 7.1 Select the '**Replace servo motor (clutches)**' function in the '**Maintenance/repairs**' menu and perform the procedure according to menu guidance.
 - 7.2 Select the '**Clutch slip function test**' function, select '**Delete clutch fault**' and perform the procedure according to menu guidance.
 - 7.3 Then, select the '**Adapt transmission**' function and perform the procedure according to menu guidance.


Information

The specified sequence (6.1 - 6.3) must always be observed in order to ensure that the rear-axle final drive is taught correctly.

- 8 Read out and erase fault memory.
- 9 End operational readiness and disconnect the PIWIS Tester and battery charger from the vehicle.


Information

After adapting the rear-axle final drive, the electric motor must be re-calibrated.

- To do this, accelerate to at least 60 km/h (38 mph)
- Then, maintain an overrun phase for at least 1 second

The electric motor is calibrated during the overrun phase.

Once calibration is complete, the vehicle speed restriction in overrun is lifted immediately. The "Reduced speed" warning message in the instrument cluster is reset after switching the ignition off and on again (terminal 15 change).

Invoicing

Invoicing: For documentation and warranty invoicing, select the labor operations and PQIS coding specified below for the relevant repairs and enter them in the warranty claim:

APOS	Labor operation	I No.
37751950	Removing and installing servo motor	
37351950	Removing and installing automatic transmission	
42011903	Removing and installing rear axle (air springs)	
42011900	Removing and installing rear axle (steel springs)	

PQIS coding:

Location (FES5)	37350	Automatic transmission
Damage type (SA4)	9735	Repair in accordance with PAG instructions

Parts Info:	Part No.	Designation – Use	Qty.
	OME325835E	Gear actuator – Rear axle differential	1 ea.
	PAF009212	Round head screw – Gear actuator	2 ea.

References: ⇒ *Workshop Manual '373519 Removing and installing automatic transmission (with electric motor)'*
⇒ *Workshop Manual '377519 Removing and installing servo motor (electric gear actuator)'*

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