

**WJ88 - Replacing Manual Transmission (Workshop Campaign)**

Vehicle Type: **Cayman GT4 (981)**

Model Year: **2016**

Subject: **6-speed manual transmission**

Information: **A 6-speed manual gearbox, in which the durability of the gear wheel for 3rd gear cannot be guaranteed over the entire service life of the vehicle due to the high performance characteristic of the drive train, was installed on the affected vehicles.**

This can result in transmission damage during mainly sporty, highly dynamic driving, e.g. when driving on race tracks. In this case, no further driving force is possible in 3rd gear, while all other gears can be used to a limited extent for a short period of time.

Remedial Action: Replace 6-speed manual transmission with a transmission with reinforced gear wheels.

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle information). This campaign affects 1,270 vehicles in North America.

**Parts required**

Parts Info:	Part No.	Designation - Use	Qty.
	00004321099	⇒ Manual transmission - Transmission code G8120 - with 40% rear-differential lock (I-no. 220)	1 ea.
	99908444701	⇒ Hexagon nut, M8 - Transmission mount to body mounting	4 ea.
	90037824901	⇒ Hexagon-head bolt, M10 x 55 - Transmission mount to transmission	4 ea.
	99920911830	⇒ Spacer sleeve, 10.2 x 7.4 - Transmission mount to transmission	4 ea.
	99907284001	⇒ Hexagon-head bolt, M10 x 35 - Diagonal brace to body	2 ea.
	99907283701	⇒ Hexagon-head bolt, M10 x 55 - V strut to body	2 ea.

982251263	⇒ Seal - Silencer to catalytic converter	2 ea.
90091000303	⇒ Hexagon nut, M8 - Silencer to catalytic converter	4 ea.
99908412309	⇒ Hexagon nut, M10 - Anti-roll bar to connecting link	2 ea.

Additional parts required **only in certain cases**:

Part No.	Designation - Use	Qty.
90007536502	⇒ Screw, M8 x 30 - Replacement for catalytic converter threaded bolt	up to 4 ea. (only if required)
99938500901	⇒ External hexagon round-head bolt, M12 x 1.5 x 55 - Transmission to engine	up to 6 ea. (only if required)
99908444501	⇒ Lock nut, M12 x 1.5 - Toe/camber eccentric adjuster on rear axle	up to 4 ea. (only if required)

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

Part No.	Designation - Use	Qty.
00004330516	⇒ Coolant additive, 20-liter container - Cooling system	As much as required (approx. 1 liter required per vehicle)
00004330548	⇒ Transmission oil, 20-liter container - Manual transmission	As much as required (approx. 0.5 liters required per vehicle)

### Required tools

- Tools:
- **9768 - Electronic torque wrench, 2 - 100 Nm (1.5 - 74 ftlb.)**
  - Suitable engine and gearbox jack, e.g. **VAS 6931 - engine and gearbox jack** with **VAS 6867 - support plate**
  - **VAS 6832 - Master Gear unit elevating platform**
  - **9769 - Retainer plate**
  - **9510/1 - Adapter plate**
  - **VAS 6933 - Disassembly tool**
  - Suitable hose clamps, e.g. **3093 - Hose clamp**
  - **9696 - Filling device**
  - **9900 - PIWIS Tester 3**

- Battery charger with a current rating of **at least 90 A**

**Additional tools required for suspension alignment:**

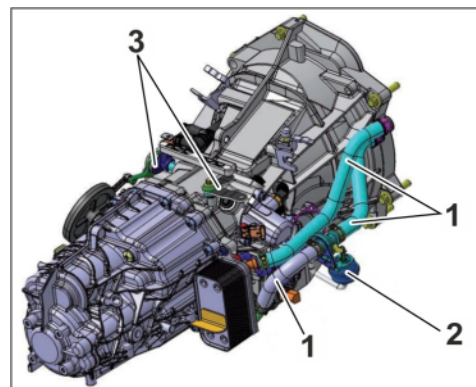
- **9229/1 - Puller hook**
- **VAS 6918 - Quick-Clamping Unit**
- **9647 - Hook wrench**
- **9847 - Socket-wrench insert**
- **9626 - Insert for torque wrench**

**Replacing manual transmission**

Work Procedure: 1 Remove manual transmission and install new manual transmission ⇒ *Workshop Manual '343519 Removing and installing transmission'*.

Pay particular attention to the following points:

- **Do not disconnect the clutch line** when removing and installing the clutch slave cylinder because if you do, you will have to bleed the brake system and clutch system completely.
- If the **threaded bolts** on the catalytic converters are **damaged**, replace them with screws with Part No. 90007536502.
- **Check the thread of the fastening screws** for securing the transmission to the engine before re-using them. Replace the screws if they are damaged.
- Remove **coolant hoses** ⇒ *Manual transmission - add-on parts -1-*, **disc valve** with vacuum control ⇒ *Manual transmission - add-on parts -2-* and **exterior shift linkage** ⇒ *Manual transmission - add-on parts -3-* on the transmission you removed earlier and fit them on the new transmission. For tightening torques, see ⇒ *Workshop Manual '3X00IN Technical values'*.



*Manual transmission - add-on parts*

- 2 Perform suspension alignment and correct the chassis setup on the rear axle if necessary.  
⇒ *Workshop Manual '449503 Suspension alignment, complete'*  
⇒ *Workshop Manual '4X00IN Adjustment values for suspension alignment'*
- 3 Enter the campaign in the Warranty and Maintenance booklet.

**Warranty processing**

Scope 1:

**Working time:**

Replacing manual transmission

Labor time: **955 TU**

Includes: Converting coolant lines for manual transmission  
 Converting disc valve with vacuum control  
 Converting exterior shift linkage  
 Replacing threaded bolts on catalytic converters (if required)  
 Performing suspension alignment  
 Correcting chassis setup on rear axle (if required)

**Parts required:**

00004321099	Manual transmission with rear-differential lock	1 ea.
99908444701	Hexagon nut M8	4 ea.
90037824901	Hexagon-head bolt, M10 x 55	4 ea.
99920911830	Spacer sleeve, 10.2 x 7.4	4 ea.
99907284001	Hexagon-head bolt, M10 x 35	2 ea.
99907283701	Hexagon-head bolt, M10 x 55	2 ea.
982251263	Seal	2 ea.
90091000303	Hexagon nut M8	4 ea.
99908412309	Hexagon nut, M10	2 ea.

**Additional parts required in certain cases:**

90007536502	Screw, M8 x 30	up to 4 ea.
99938500901	External hexagon round-head bolt, M12 x 1.5 x 55	up to 6 ea.
99908444501	Lock nut, M12 x 1.5	up to 4 ea.

**Required materials:**

00004330516	Coolant additive (20-liter container)	0.05 ea. (= approx. 1 liter)
00004330548	Transmission oil (20-liter container)	0.02 ea. (= approx. 0.5 liter)

⇒ **Damage Code WJ88 066 000 2**

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