

**WMD4 – Checking Manual Transmission and Replacing it if Necessary (Workshop Campaign)**

Vehicle Type: **911 Carrera (997)  
911 Carrera S (997)**

Model Year: **As of 2005 up to 2008**

Concerns: **Manual transmission (M-no. 480)**

Information: During repairs involving the replacement of the transmission, the affected vehicles were installed with a manual transmission in which an oil baffle plate was not installed inside the transmission due to an assembly error by the transmission manufacturer.  
The absence of an oil baffle plate can lead to insufficient lubrication and consequently higher wear on the transmission components over the service life of the vehicle.

Action required: Check the manual transmission and replace, if required.

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

**Required parts and materials (911 Carrera/ S)**

Parts Info:	<b>Part No.</b>	<b>Designation – Use</b>	<b>Qty.</b>
	997300010BX	⇒ 6-speed manual gearbox – with differential	1 ea.
	99730180800	⇒ Sealing ring – Oil inspection plug for manual transmission	1 ea.
	99950784901	⇒ Captive nut – Center underbody cover	10 ea.
	99904900740	⇒ Plastic nut – Side underbody covers	26 ea.
	99907201001	⇒ Hexagon-head bolt, M12 x 1.5 x 100 – Transmission flange	2 ea.
	99907200801	⇒ Hexagon-head bolt, M12 x 1.5 x 70 – Transmission flange	3 ea.
	90037806101	⇒ Hexagon-head bolt, M12 x 1.5 x 50 – Transmission flange	1 ea.

PAF008758	⇒ Hexagon-head bolt, M10 x 50 – Transmission flange	1 ea.
90037701101	⇒ Hexagon nut, M10 – Transmission flange	1 ea.
99907311901	⇒ Cheese head bolt, M10 x 50 – Transmission flange	1 ea.

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

Part No.	Designation – Use	Qty.
00004330548	⇒ Transmission oil	20-liter/ 5.28 gal container (approx. 300 ml/ 10.14 fl oz required per vehicle)
00004321086	⇒ Brake fluid	30-liter/ 7.92 gal container (approx. 100 ml/ 3.28 fl oz required per vehicle)
00004320593	⇒ Lubricant Shift and selector cables	100 gram/ 3.52 oz tube (approx. 5 gram/ 0.17 oz required per vehicle)
00004330573	⇒ Extreme pressure grease Manual transmission and cardan shaft	80 gram/ 2.82 oz tube (approx. 6 gram/ 0.21 oz required per vehicle)

### Required tools

- Tools:
- **9769 - Retainer plate**
  - **VAS 6931 - Engine and gearbox jack**
  - **VAS 6563 - Manual metering pumps, Porsche set**

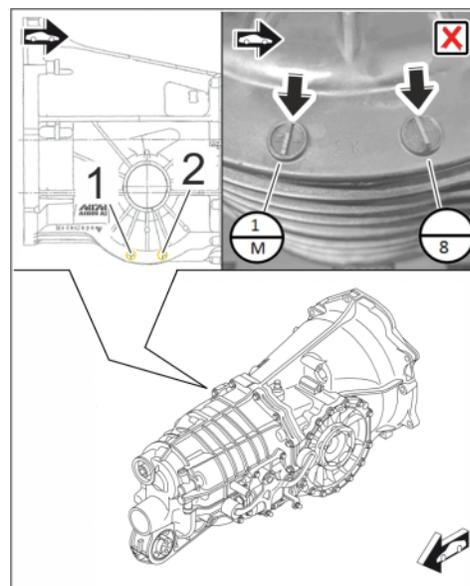
### Checking manual transmission

- Work Procedure: 1 Position the vehicle on a lifting platform and raise it at the prescribed jacking points. ⇒ *Workshop Manual '4X00INO1 Lifting the vehicle'*
- 2 Remove rear underbody panelling. ⇒ *Workshop Manual '519419 Removing and installing cover for rear underbody'*

**NOTE:** There are 2 sections to WM 519419. Only the rear underbody needs to be removed in this case.

3 Check both impressions ⇒ *Checking manual transmission -1-* and ⇒ *Checking manual transmission -2-* on the manual transmission.

- If the impressions "1/M" and "8" shown in the illustration are present on the manual transmission ⇒ *Checking manual transmission -Arrows-*, the transmission must be replaced. This applies irrespective of whether the impression is present at position ⇒ *Checking manual transmission -1-* or ⇒ *Checking manual transmission -2-*. What is important here is the combination of 1/M and 8 or vice versa. **The manual transmission must be replaced in both cases.** To do this, continue with step ⇒ *Technical Information '519419 Replacing manual transmission'*
- The **impression on the manual transmission differs from the marking as shown in the illustration** ⇒ *Checking manual transmission*. **The manual transmission does not need to be replaced.** In this case, take photos of the impressions and continue with **step 4**.



Checking manual transmission

- 4 Install rear underbody panelling. ⇒ *Workshop Manual '519419 Removing and installing cover for rear underbody'*
- 5 Lower the vehicle and remove it from the lifting platform.
- 6 Enter the campaign in the Warranty and Maintenance booklet. For warranty processing, see ⇒ *Technical Information '519419 Warranty processing', Scope 1.*  
**Please document the photos of the impressions on the manual transmission in WWS.**

### Replacing manual transmission

- Work Procedure: 1 Disconnect the battery. ⇒ *Workshop Manual '2706IN00 Work instructions after disconnecting the battery'*
- 2 Remove cover for center underbody. ⇒ *Workshop Manual '519319 Removing and installing cover for centre underbody'*



#### Information

After removal of the manual transmission, any required add-on parts must be converted to the new manual transmission.

**3 Removing manual transmission and installing a new one.**

For procedure see:

⇒ *Workshop Manual '343519 Removing and installing transmission'*4 Check transmission oil and top up if necessary. ⇒ *Workshop Manual '340135 Checking and topping up transmission oil'*5 Bleed the clutch hydraulic system. ⇒ *Workshop Manual '30010700 Bleeding the clutch system'*6 Adjust the shift and selector cables. See "Securing selector cable". ⇒ *Workshop Manual '341219 Removing and installing shift and selector cables'*

Installing underbody panelling.

For procedure see:

⇒ *Workshop Manual '519419 Removing and installing cover for rear underbody'*⇒ *Workshop Manual '519319 Removing and installing cover for centre underbody'*

7 Lower the vehicle.

8 Re-connect the battery. ⇒ *Workshop Manual '2706IN00 Work instructions after disconnecting the battery'*

9 Prepare old manual transmission for shipping.

9.1 Drain transmission oil and dispose of it.

9.2 Clean manual transmission.

10 Enter the campaign in the Warranty and Maintenance booklet.

**Warranty processing**Scope 1: **Checking manual transmission – the manual transmission does not have to be replaced****Working time:**

Checking manual transmission

Labor time: **56 TU**

Includes: Removing and installing rear underbody cover

⇒ **Damage Code WMD4 066 000 1**Scope 2: **Checking and replacing manual transmission**

- Relevant for 911 Carrera (997)/911 Carrera S (997)

**Working time:**

Checking and replacing manual transmission

Labor time: **526 TU**

- Includes:
- Removing and installing underbody cover
  - Removing and installing cross member
  - Removing and installing anti-roll bar
  - Removing and installing transmission bracket
  - Removing and installing transmission support
  - Loosening and securing clutch slave cylinder
  - Loosening and securing drive shafts
  - Loosening and securing cable plugs
  - Loosening and securing operating cables
  - Checking and topping up transmission oil
  - Converting add-on parts
  - Cleaning old unit
  - Draining transmission oil from old unit

**Parts required:**

997300010BX	6-speed manual transmission	1 ea.
99730180800	Sealing ring	1 ea.
99950784901	Captive nut	10 ea.
99904900740	Plastic nut	26 ea.
99907201001	Hexagon-head bolt, M12 X 1.5 X 100	2 ea.
99907200801	Hexagon-head bolt, M12 X 1.5 X 70	3 ea.
90037806101	Hexagon-head bolt, M12 X 1.5 X 50	1 ea.
PAF008758	Hexagon-head bolt, M10 X 50	1 ea.
90037701101	Hexagon nut, M10	1 ea.
99907311901	Cheese head bolt, M10 X 50	1 ea.

**Materials required**

00004330548	Transmission oil	0,03 ea.
00004321086	Brake fluid	0,01 ea.
00004320593	Lubricant	0,05 ea.
00004330573	Extreme pressure grease	0,08 ea.

⇒ Damage Code WMD4 066 000 2

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