

WLE7 - Replacing Double Clutch Transmission (Workshop Campaign)

Vehicle Type: **Panamera (971)**
Panamera 4 (971)

Model Year: **2018**

Equipment: Transmission type CODSA
Transmission type CODS1

Subject: **Double clutch transmission**

Information: **There is a possibility that the affected vehicles were installed with a double clutch transmission on which a seal between the transmission bell housing and thrust block is missing. This can result in internal leaks in the double clutch transmission at transmission fluid temperatures greater than 80 °C/ 176 °F.**

If this happens, it will not be possible to engage any other gear initially after engaging transmission range "P" due to the reduced oil pressure. It will not be possible to continue driving until the transmission fluid temperature has cooled down.

Remedial Action: Replace double clutch transmission.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). There are 4 vehicles affected by this campaign.

Parts required

Parts Info:	Part No.	Designation	Qty.
		- Use	
	9A7300020DX	⇒ 8-speed double clutch transmission - Relevant for vehicles without all-wheel drive (transmission type CODSA)	1 ea.
	or		
	9A7300020FX	⇒ 8-speed double clutch transmission - Relevant for all-wheel drive vehicles (transmission type CODS1)	1 ea.
	9A700839600	⇒ Hexagon-head bolt, M12 x 100 x 30 - Bolts on transmission	5 ea.

N 91153202	⇒ 12 point socket, AM10 x 95 – Bolts on transmission	4 ea.
012409413	⇒ Circlip – Connecting shaft	1 ea.
N 10750001	⇒ Internal hexagon round-head countersunk screw, M6 x 16 – Heat shield on transmission	4 ea.
N 91251301	⇒ Hexagon flange bolt, M10 x 60 – Transmission support	6 ea.
N 10625901	⇒ Collared cheese head bolt with multiple-tooth head, M10 x 70 – Engine support	1 ea.
N 10784702	⇒ Hexagon flange bolt – Steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Tie-rod ball	2 ea.
WHT004955A	⇒ Internal hexagon round cheese head bolt, M8 x 30 – Steering column universal joint	1 ea.
N 10609207	⇒ Hexagon collar nut – Front-axle carrier	2 ea.
N 91244301	⇒ Hexagon flange bolt with hexagon socket head (duo), M12 x 1.5 x 90 – Bolts on body	4 ea.
N 10629602	⇒ Hexagon flange bolt, M10 x 35 – For securing anti-roll bar to steering gear	4 ea.
N 91257801	⇒ Hexagon-head bolt, M8 x 80 – For securing anti-roll bar to steering gear	1 ea.
N 10435506	⇒ Hexagon collar nut, self-locking, M8 – For securing anti-roll bar to steering gear	1 ea.
N 91260401	⇒ Hexagon flange bolt with hexagon socket head (duo), M10 x 45 – Strut to body	2 ea.
9A700489400	⇒ O-ring, 31.42 x 2.62 – Cardan shaft to double clutch transmission	1 ea.

9A752572202	⇒ Circlip – Cardan shaft to double clutch transmission	1 ea.
WHT005156	⇒ O-ring, 28 x 2 – Cardan shaft to rear axle differential	1 ea.
9A750730100	⇒ Circlip – Cardan shaft to rear axle differential	1 ea.
9A700819800	⇒ O-ring, 15 x 3.6 – ATF line (rear section)	2 ea.

Vehicles with I-no. D1I (3.0 V6 monoturbo):

9A725311507	⇒ Seal – Primary catalytic converter to exhaust turbocharger	1 ea.
9A725372510	⇒ V-band clamp – Primary catalytic converter to exhaust turbocharger	1 ea.
N 91130801	⇒ Hexagon collar nut, self-locking, M8 – Catalytic converter to primary catalytic converter	3 ea.
95811111300	⇒ Seal – Catalytic converter to primary catalytic converter	1 ea.

Vehicles with I-no. D0D (2.9 V6 biturbo without particle filter):

95811111300	⇒ Seal – Primary catalytic converter to catalytic converter	2 ea.
N 91130801	⇒ Hexagon collar nut, self-locking, M8 – Primary catalytic converter to catalytic converter	6 ea.

Vehicles with I-no. D0D (2.9 V6 biturbo with particle filter):

5C0253115A	⇒ Seal – Primary catalytic converter to catalytic converter	2 ea.
9A725372504	⇒ Clamp – Primary catalytic converter to catalytic converter	2 ea.

Vehicles with I-no. 1P0 (standard suspension):

N 91006202	⇒ Hexagon-head bolt, M10 x 32 (combination) – Anti-roll bar	4 ea.
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N 10793603	⇒ Hexagon flange bolt, M12 x 1.5 x 60 – Anti-roll bar to connecting link	2 ea.
N 0150818	⇒ Hexagon collar nut – Anti-roll bar to connecting link	2 ea.

Vehicles with I-no. 1P7 (PDCC/eAWS)

N 91006202	⇒ Hexagon-head bolt, M10 x 32 (combination) – Anti-roll bar	4 ea.
N 10702302	⇒ Hexagon-head bolt, M12 x 1.5 x 50 – Anti-roll bar to connecting link	2 ea.

Additional parts required if the camber on the front axle must be corrected during suspension alignment:

**Information**

The camber on the front axle cannot be adjusted, but must be centered evenly within the tolerance range by moving the front-axle carrier.

After correcting the camber, the front-axle carrier must be screwed to the body using **new fastening screws**.

We recommend that you keep **one set of fastening screws** available for each affected Porsche dealer in order to prevent delays in carrying out this campaign.

Part No.	Designation – Use	Qty.
N 91244301	⇒ Combination screw, M12 x 1.5 x 90 – Front-axle carrier to body	8 ea.
N 91260401	⇒ Combination screw, M10 x 45 – Front-axle carrier to body	2 ea.

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

Part No.	Designation – Use	Qty.
00004321044	⇒ Pentosin FFL-8, 1-liter container – ATF for transmission	As much as required (approx. 0.2 liter required per vehicle)

00004330539	⇒ Klüberplus Gel grease, 100g/ 3.5 oz tube – O-rings	As much as required (approx. 10 grams/ 0.35 oz required per vehicle)
00004320707	⇒ Optimol Paste MF grease, 100g/ 3.5 oz tube – Oxygen sensor	As much as required (approx. 10 grams/ 0.35 oz required per vehicle)
00004330122	⇒ Anti Seize AS 040P mounting paste, 10g/ 0.35 oz container – Engine/transmission flange	As much as required (approx. 10 grams/ 0.35 oz required per vehicle)

Required tools

Tools:

Special tools:

Designation/Comment	Use
T10187 - Press-out tool	Removing wishbone at the wheel carrier
9889 - Press-off tool	Removing and installing cardan shaft
VAS 6931 Transmission and Engine Jack	Removing and installing exhaust system
VAS 6262A Adapter for Oil Filling	Checking and topping up ATF
VAS 6262/2 Adapter for Filling ATF Oil	
9900 - PIWIS Tester 3	On-board diagnosis (OBD)
VAS 5908 Battery Charger, 90 A	
VAS 6826 Steering wheel balance	Performing suspension alignment
VAS 6918 Quick-Clamping Unit	
9229/1 - Puller hook	
T10188 - Open-end spanner insert	

General tools:

- Torque wrench, 2 – 10 Nm (1.5 – 7.5 ftlb.), e.g. **VAG 1783 Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
- Torque wrench, 6 – 50 Nm (4.5 – 37 ftlb.), e.g. **VAG 1331A Torque wrench, 6-50 Nm (4.5-37 ftlb.)**
- Torque wrench, 40 – 200 Nm (30 – 148 ftlb.), e.g. **VAG 1332 Torque wrench, 40-200 Nm (30-148 ftlb.)**
- Torque angle torque wrench, e.g. **9768 - Electronic torque wrench, 2 - 100 Nm/1.5 - 74 ftlb.**

Replace double clutch transmission

- Work Procedure: 1 Remove double clutch transmission ⇒ *Workshop Manual '373419 Removing and installing double clutch transmission (V6 monoturbo)'*
⇒ *Workshop Manual '373419 Removing and installing double clutch transmission (V6 biturbo)'*.
- 2 Remove peripheral parts on the double clutch transmission to be replaced and install them on the new double clutch transmission ⇒ *Workshop Manual '373455 Replacing double clutch transmission (V6 monoturbo)'*.
- 3 Install new double clutch transmission ⇒ *Workshop Manual '373419 Removing and installing double clutch transmission (V6 monoturbo)'*.
- 4 Re-program and calibrate PDK control unit ⇒ *Workshop Manual '373455 Replacing double clutch transmission'*.
- 5 Enter the campaign in the Warranty and Maintenance booklet.

- References: ⇒ *Workshop Manual '108319 Removing and installing engine cover (design cover) (V6 Turbo)'*
⇒ *Workshop Manual '2X00IN Technical values (V6 Turbo)'*
⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*
⇒ *Workshop Manual '247319 Removing and installing oxygen sensor downstream of catalytic converter (V6 monoturbo)'*
⇒ *Workshop Manual '247319 Removing and installing oxygen sensor downstream of catalytic converter (V6 biturbo)'*
⇒ *Workshop Manual '260119 Removing and installing exhaust system'*
⇒ *Workshop Manual '261219 Removing and installing heat shield for turbocharger (V6 biturbo and monoturbo)'*
⇒ *Workshop Manual '261420 Removing and installing heat shields'*
⇒ *Workshop Manual '267319 Removing and installing catalytic converter (V6 monoturbo)'*
⇒ *Workshop Manual '267319 Removing and installing catalytic converter (V6 BT)'*
⇒ *Workshop Manual '267619 Removing and installing primary catalytic converter (V6 monoturbo)'*
⇒ *Workshop Manual '267619 Removing and installing primary catalytic converter (V6 biturbo)'*
⇒ *Workshop Manual '272219 Removing and installing generator (V6 Turbo)'*
⇒ *Workshop Manual '276019 Removing and installing starter'*
⇒ *Workshop Manual '3X00IN Technical values - Transmission'*
⇒ *Workshop Manual '370235 Checking and topping up ATF'*

- ⇒ Workshop Manual '373419 Removing and installing double clutch transmission (V6 monoturbo)'
- ⇒ Workshop Manual '373419 Removing and installing double clutch transmission (V6 biturbo)'
- ⇒ Workshop Manual '373455 Replacing double clutch transmission (V6 monoturbo)'
- ⇒ Workshop Manual '373455 Replacing double clutch transmission'
- ⇒ Workshop Manual '386219 Removing and installing ATF cooling line (rear section)'
- ⇒ Workshop Manual '393519 Removing and installing rear cardan shaft'
- ⇒ Workshop Manual '4X00IN Lifting the vehicle'
- ⇒ Workshop Manual '4X00IN Tightening torques for front axle'
- ⇒ Workshop Manual '400819 Removing and installing front-axle support'
- ⇒ Workshop Manual '407719 Removing and installing front anti-roll bar'
- ⇒ Workshop Manual '407719 Removing and installing front anti-roll bar (PDCC)'
- ⇒ Workshop Manual '407919 Removing and installing anti-roll bar mount'
- ⇒ Workshop Manual '421319 Removing and installing strut'
- ⇒ Workshop Manual '440519 Removing and installing wheel'
- ⇒ Workshop Manual '449503 Performing front and rear suspension alignment'
- ⇒ Workshop Manual '4495TW Adjustment values for suspension alignment'
- ⇒ Workshop Manual '489055 Replacing power-steering gear'
- ⇒ Workshop Manual '505619 Removing and installing front wheel housing liner'
- ⇒ Workshop Manual '519219 Removing and installing cover for front underbody'
- ⇒ Workshop Manual '519319 Removing and installing cover for centre underbody'
- ⇒ Workshop Manual '519419 Removing and installing cover for rear underbody'
- ⇒ Workshop Manual '536919 Removing and installing rear wheel housing liner'
- ⇒ Workshop Manual '635519 Removing and installing rear apron'

Warranty processing

- Scope 1:
- Vehicles with I-no. D1I (3.0 V6 monoturbo)

Working time:

Replacing double clutch transmission

Labor time: **1231 TU**

- Includes:
- Removing and installing double clutch transmission
 - Removing peripheral parts on the double clutch transmission to be replaced and install them on the new double clutch transmission
 - Disconnecting and connecting the battery
 - Removing and installing primary catalytic converter
 - Removing and installing engine cover (design cover)
 - Removing and installing heat shield on turbocharger
 - Removing and installing oxygen sensor downstream of catalytic converter
 - Removing and installing front-axle support
 - Removing and installing cover for front underbody
 - Removing and installing catalytic converter
 - Removing and installing power-steering gear
 - Removing and installing anti-roll bar mount

Removing and installing front anti-roll bar
 Removing and installing front wheel housing liner
 Removing and installing ATF cooling line (rear section)
 Checking and topping up ATF
 Removing and installing rear cardan shaft
 Removing and installing exhaust system
 Removing and installing heat shields
 Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Re-programming and calibrating PDK control unit
 Performing on-board diagnosis using the PIWIS Tester
 Performing suspension alignment and adjusting the vehicle
 Carrying out an extended test drive

Parts required:

9A7300020DX	8-speed double clutch transmission	1 ea.
9A700839600	Hexagon-head bolt, M12 x 100 x 30	5 ea.
N 91153202	12 point socket, AM10 x 95	4 ea.
012409413	Circlip	1 ea.
N 10750001	Internal hexagon round-head countersunk screw, M6 x 16	4 ea.
N 91251301	Hexagon flange bolt, M10 x 60	6 ea.
N 10625901	Collared cheese head bolt with multiple-tooth head, M10 x 70	1 ea.
N 10784702	Hexagon flange bolt	2 ea.
PAF104029	Hexagon collar nut	2 ea.
9A700499500	Hexagon nut, M12 x 1.5	2 ea.
WHT004955A	Internal hexagon round cheese head bolt, M8 x 30	1 ea.
N 10609207	Hexagon collar nut	2 ea.
N 91244301	Hexagon flange bolt with hexagon socket head (duo), M12 x 1.5 x 90	4 ea.
N 10629602	Hex flange bolt, M10 x 35	4 ea.
N 91257801	Hexagon-head bolt, M8 x 80	1 ea.
N 10435506	Hexagon collar nut, self-locking, M8	1 ea.
N 91260401	Hexagon flange bolt with hexagon socket head (duo), M10 x 45	2 ea.

9A700489400	O-ring, 31.42 x 2.62	1 ea.
9A752572202	Circlip	1 ea.
WHT005156	O-ring, 28 x 2	1 ea.
9A750730100	Circlip	1 ea.
9A700819800	O-ring, 15 x 3.6	2 ea.
9A725311507	Seal	1 ea.
9A725372510	V-band clamp	1 ea.
N 91130801	Hexagon collar nut, self-locking, M8	3 ea.
95811111300	Seal	1 ea.
Vehicles with I-no. 1P0 (standard suspension):		
N 91006202	Hexagon-head bolt, M10 x 32 (combination)	4 ea.
N 10793603	Hexagon flange bolt, M12 x 1.5 x 60	2 ea.
N 0150818	Hexagon collar nut	2 ea.
Vehicles with I-no. 1P7 (PDCC/eAWS)		
N 91006202	Hexagon-head bolt, M10 x 32 (combination)	4 ea.
N 10702302	Hexagon-head bolt, M12 x 1.5 x 50	2 ea.
Additional parts required if the camber on the front axle must be corrected:		
N 91244301	Combination screw, M12 x 1.5 x 90	8 ea.
N 91260401	Combination screw, M10 x 45	2 ea.
Materials required:		
00004321044	Pentosin FFL-8 (1-liter container)	0.2 ea. (= approx. 0.2 liter)
00004330539	Klüberplus Gel grease (100g/ 3.5 oz tube)	0.1 ea. (= approx. 10 g/ 0.35 oz)
00004320707	Optimol Paste MF grease (100g/ 3.5 oz tube)	0.1 ea. (= approx. 10 g/ 0.35 oz)
00004330122	Anti Seize AS 040P mounting paste (10g/ 0.35 oz container)	1 ea. (= approx. 10 g/ 0.35 oz)
⇒ Damage Code WLE7 066 000 2		

Scope 2:

- Vehicles with I-no. D0D (2.9 V6 biturbo)

Working time:

Replacing double clutch transmission

Labor time: **1245 TU**

Includes:

- Removing and installing double clutch transmission
- Removing peripheral parts on the double clutch transmission to be replaced and install them on the new double clutch transmission
- Disconnecting and connecting the battery
- Removing and installing primary catalytic converter
- Removing and installing engine cover (design cover)
- Removing and installing heat shield on turbocharger
- Removing and installing oxygen sensor downstream of catalytic converter
- Removing and installing front-axle support
- Removing and installing cover for front underbody
- Removing and installing catalytic converter
- Removing and installing power-steering gear
- Removing and installing anti-roll bar mount
- Removing and installing front anti-roll bar
- Removing and installing front wheel housing liner
- Removing and installing ATF cooling line (rear section)
- Checking and topping up ATF
- Removing and installing rear cardan shaft
- Removing and installing exhaust system
- Removing and installing heat shields
- Connecting and disconnecting battery charger
- Connecting and disconnecting PIWIS Tester
- Re-programming and calibrating PDK control unit
- Performing on-board diagnosis using the PIWIS Tester
- Performing suspension alignment and adjusting the vehicle
- Carrying out an extended test drive

Parts required:

9A7300020DX	8-speed double clutch transmission	1 ea.
9A700839600	Hexagon-head bolt, M12 x 100 x 30	5 ea.
N 91153202	12 point socket, AM10 x 95	4 ea.
N 91251301	Hexagon flange bolt, M10 x 60	6 ea.
N 10625901	Collared cheese head bolt with multiple-tooth M10 x 70	1 ea.
N 10784702	Hexagon flange bolt	2 ea.

PAF104029	Hexagon collar nut	2 ea.
9A700499500	Hexagon nut, M12 x 1.5	2 ea.
WHT004955A	Internal hexagon round cheese head bolt, M8 x 30	1 ea.
N 10609207	Hexagon collar nut	2 ea.
N 91244301	Hexagon flange bolt with hexagon socket head (duo), M12 x 1.5 x 90	4 ea.
N 10629602	Hexagon flange bolt, M10 x 35	4 ea.
N 91257801	Hexagon-head bolt, M8 x 80	1 ea.
N 10435506	Hexagon collar nut, self-locking, M8	1 ea.
N 91260401	Hexagon flange bolt with hexagon socket head (duo), M10 x 45	2 ea.
9A700489400	O-ring, 31.42 x 2.62	1 ea.
9A752572202	Circlip	1 ea.
WHT005156	O-ring, 28 x 2	1 ea.
9A750730100	Circlip	1 ea.
9A700819800	O-ring, 15 x 3.6	2 ea.
Vehicles without petrol particulate filter		
95811111300	Seal	2 ea.
N 91130801	Hexagon collar nut, self-locking, M8	6 ea.
Vehicles with petrol particulate filter		
5C0253115A	Seal	2 ea.
9A725372504	Clamp	2 ea.
Vehicles with I-no. 1P0 (standard suspension):		
N 91006202	Hexagon-head bolt, M10 x 32 (combination)	4 ea.
N 10793603	Hexagon flange bolt, M12 x 1.5 x 60	2 ea.
N 0150818	Hexagon collar nut	2 ea.
Vehicles with I-no. 1P7 (PDCC/eAWS)		
N 91006202	Hexagon-head bolt, M10 x 32 (combination)	4 ea.
N 10702302	Hexagon-head bolt, M12 x 1.5 x 50	2 ea.
Additional parts required if the camber on the front axle must be corrected:		
N 91244301	Combination screw, M12 x 1.5 x 90	8 ea.

N 91260401	Combination screw, M10 x 45	2 ea.
Materials required:		
00004321044	Pentosin FFL-8 (1-liter container)	0.2 ea. (= approx. 0.2 liter)
00004330539	Klüberplus Gel grease (100g/ 3.5 oz tube)	0.1 ea. (= approx. 10 g/ 0.35 oz)
00004320707	Optimol Paste MF grease (100g/ 3.5 oz tube)	0.1 ea. (= approx. 10 g/ 0.35 oz)
00004330122	Anti Seize AS 040P mounting paste (10g/ 0.35 oz container)	1 ea. (= approx. 10 g/ 0.35 oz)

⇒ **Damage Code WLE7 066 000 2**

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

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