

**Complaint - Oil Leaks on Double Clutch Transmission (Porsche Doppelkupplung (PDK)):
Observe Specified Procedure (163/20)**

Model Line: **Panamera (971)**

Model Year: **As of 2017**

Concerns: **Double clutch transmission (PDK)**

Information: Oil leaks on double clutch transmission.

Action required: Find oil leaks and carry out the relevant repair measure.

- Contents:
- Preparatory work, see ⇒ *Technical Information 'Preparatory work'*
 - Leaks on left side of transmission ⇒ *Technical Information 'Leaks on left side of transmission'*
 - Leaks on right side of transmission ⇒ *Technical Information 'Leaks on right side of transmission'*
 - Leaks on upper side of transmission ⇒ *Technical Information 'Leaks on upper side of transmission'*
 - Leaks on lower side of transmission ⇒ *Technical Information 'Leaks on lower side of transmission'*
 - Leaks on front side of transmission ⇒ *Technical Information 'Leaks on front side of transmission'*
 - Leaks on rear side of transmission ⇒ *Technical Information 'Leaks on rear side of transmission'*

Preparatory work

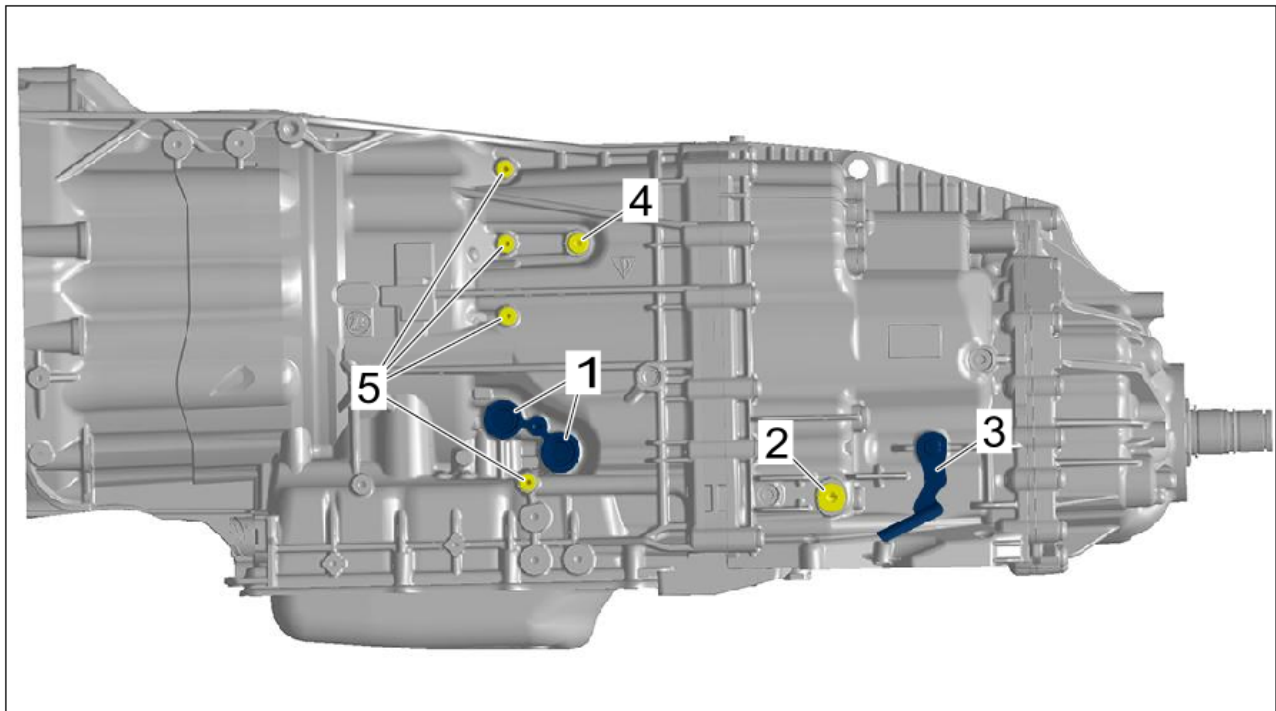
Work
Procedure:



Information

- Oil leaks must be clearly identifiable and reproducible.
 - Engine oil and coolant must have reached operating temperature during a test drive.
- 1 Document the original complaint condition with meaningful photos.
 - 2 Attach documentation to PQIS line.
 - 3 Clean the transmission thoroughly.
 - 4 Spray large areas of the transmission with SpotCheck around the suspected leakage points.
 - 5 Perform a test drive.
 - 6 Check the transmission for leaks and find the leak.
 - 7 Produce photo documentation of the leakage point located using SpotCheck.
 - 8 Attach documentation to PQIS line.

Leaks on left side of transmission

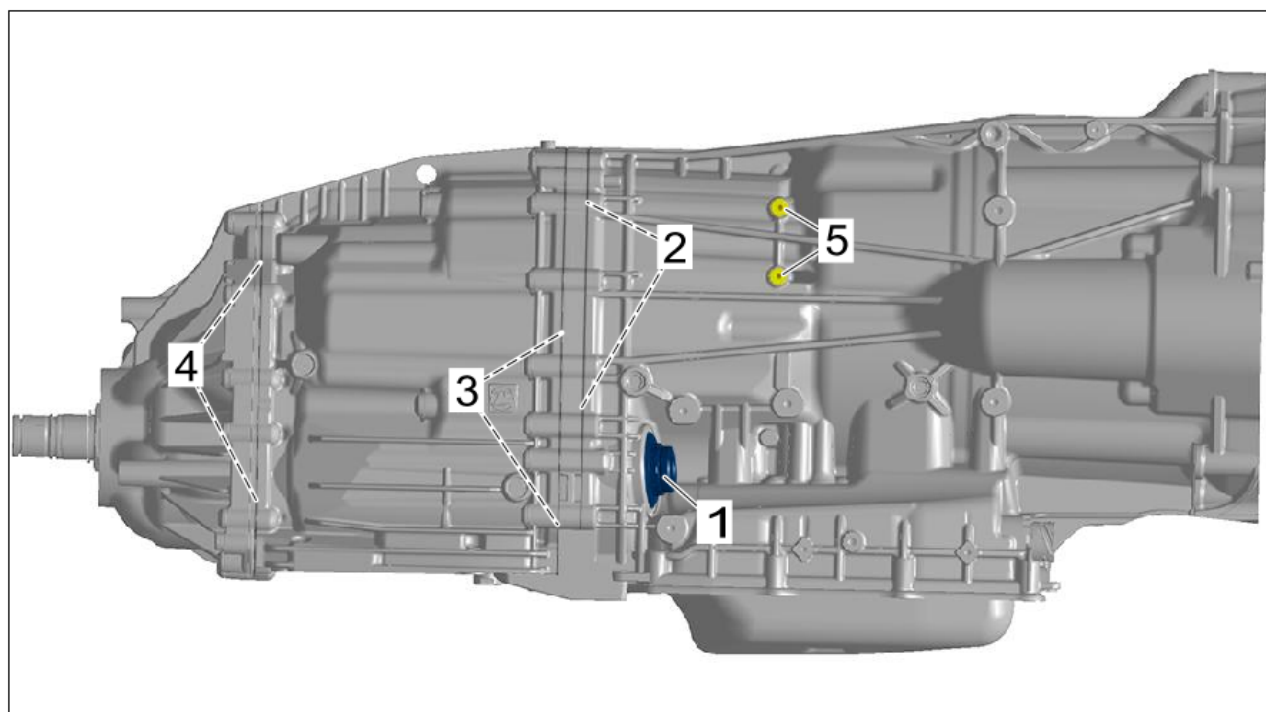


Left side of transmission

Position	Leak area	Possible cause(s)	Repair measure
⇒ Left side of transmission-1-	ATF cooler connections	Sealing ring damaged	Replace sealing ring on ATF cooling line, see ⇒ <i>Technical Information 'Replacing sealing ring on ATF cooling line'</i> .
		Line damaged	Replace ATF cooling line, see ⇒ <i>Technical Information 'Replacing ATF cooling line'</i> .
⇒ Left side of transmission-2-	Screw plug	Plug loose	Check that it is installed securely.
		Sealing ring damaged	Replace double clutch transmission, see ⇒ <i>Technical Information 'Replacing double clutch transmission'</i> .
⇒ Left side of transmission-3-	Parking lock	Sealing ring damaged	Replace sealing ring for parking lock, see ⇒ <i>Technical Information 'Replacing sealing ring for parking lock'</i> .
⇒ Left side of transmission-4-	Screw plug	Plug loose	Check that it is installed securely.
		Sealing ring damaged	Replace double clutch transmission, see ⇒ <i>Technical Information 'Replacing double clutch transmission'</i> .

⇒ Left side of transmission-5-	Screw plug	Plug loose	Check that it is installed securely. Replace screw plug if necessary, see ⇒ <i>Technical Information 'Replacing screw plug'</i> .
		Sealing ring damaged	

Leaks on right side of transmission

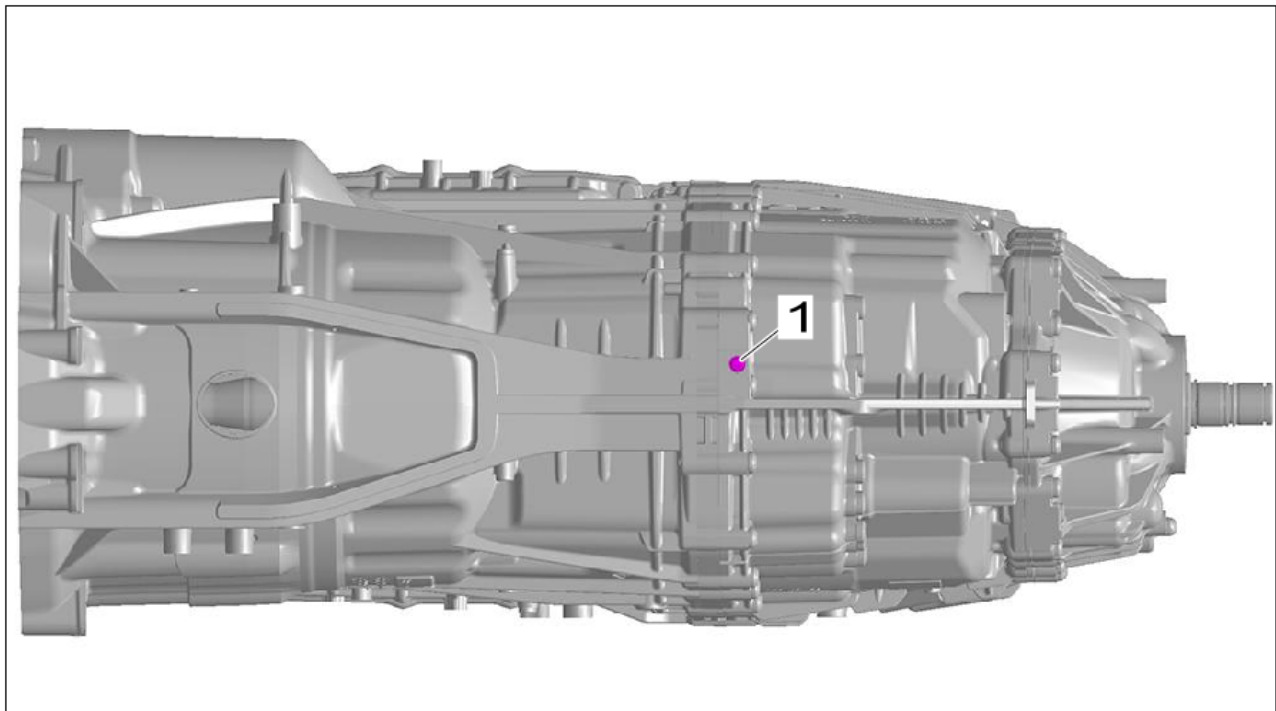


Right side of transmission

Position	Oil leak	Possible cause(s)	Repair measure
⇒ Right side of transmission-1-	Front output shaft	Sealing ring damaged	Replace sealing ring for front output shaft, see ⇒ <i>Technical Information 'Replacing sealing ring for front output shaft'</i> .
		O-ring damaged	
		Connecting shaft damaged	Check connecting shaft and replace it if necessary, see ⇒ <i>Technical Information 'Replacing connecting shaft'</i> .
		Cap damaged (2WD)	Replace cap at transmission output, see ⇒ <i>Technical Information 'Replacing cap at transmission output'</i> .

⇒ Right side of transmission-2-	Transmission housing	Screw loose	Check that it is installed securely.
		Seal damaged	Replace double clutch transmission, see ⇒ <i>Technical Information 'Replacing double clutch transmission'</i> .
⇒ Right side of transmission-3-	Transmission housing	Screw loose	Check that it is installed securely.
		Seal damaged	Replace double clutch transmission, see ⇒ <i>Technical Information 'Replacing double clutch transmission'</i> .
⇒ Right side of transmission-4-	Transmission housing	Screw loose	Check that it is installed securely.
		Seal damaged	Replace double clutch transmission, see ⇒ <i>Technical Information 'Replacing double clutch transmission'</i> .
⇒ Right side of transmission-5-	Screw plug	Plug loose	Check that it is installed securely. Replace screw plug if necessary, see ⇒ <i>Technical Information 'Replacing screw plug'</i> .
		Sealing ring damaged	

Leaks on upper side of transmission



Upper side of transmission

Position	Oil leak	Cause	Repair measure
⇒ Upper side of transmission-1-	Hydraulic chamber breather	Oil over-filled	Check and top up ATF, see ⇒ <i>Technical Information 'Checking and topping up ATF'</i> .
		Insufficient defoamer	Change ATF, see ⇒ <i>Technical Information 'Replacing oil drain plug'</i> .
		Breather defective	Replace hydraulic chamber breather, see ⇒ <i>Technical Information 'Replacing breather'</i> .

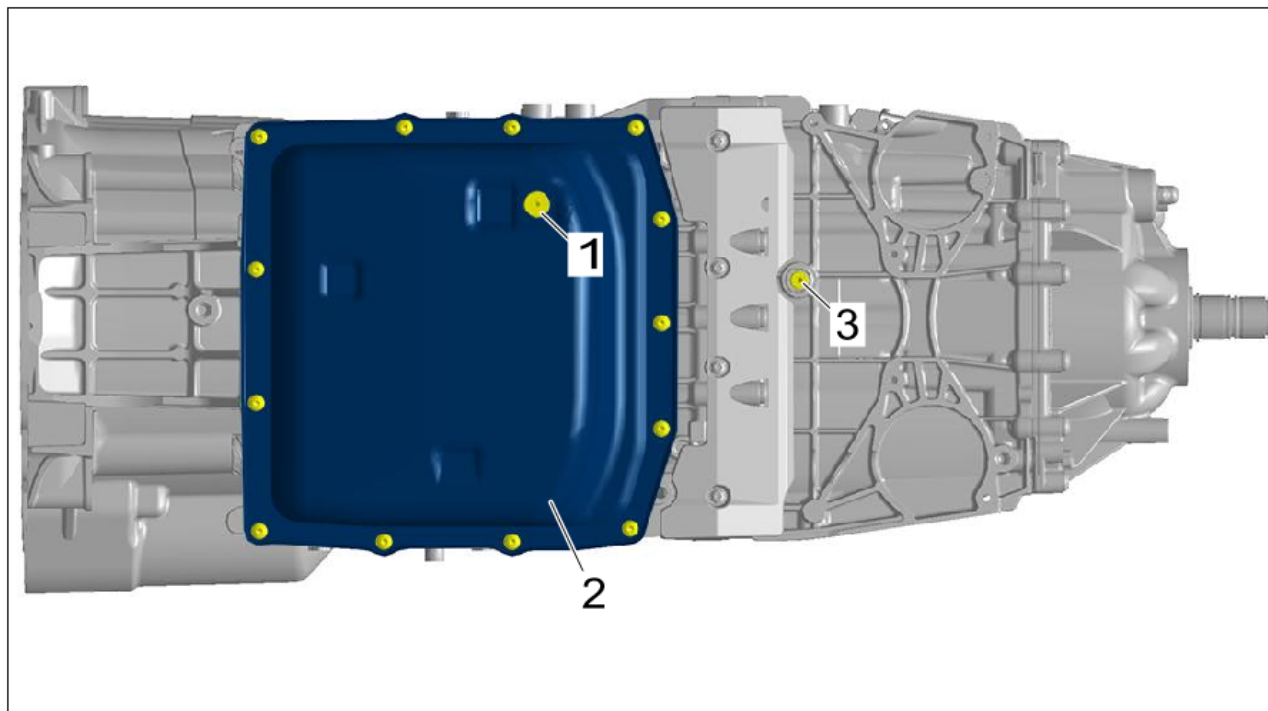
Leaks on lower side of transmission



Information

If oil has leaked into the ATF pan, proceed as follows in the event of a complaint:

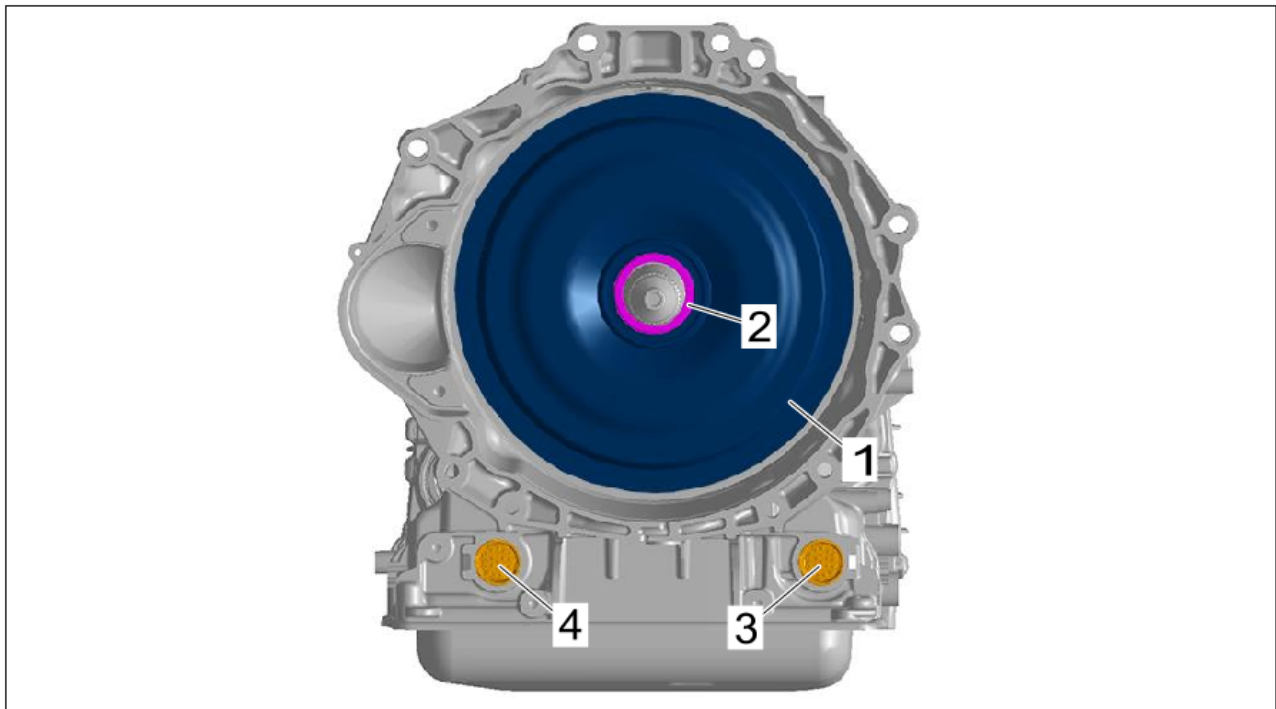
- Check that accessible screws on the ATF pan are installed securely with the specified tightening torque and tighten them correctly if necessary.
- Clean the ATF pan area thoroughly as oil leaking in under the ATF pan seal can lead to the wrong conclusions.



Lower side of transmission

Position	Oil leak	Cause	Repair measure
⇒ Lower side of transmission-1-	Oil drain plug	Plug loose	Check that it is installed securely. Replace oil drain plug if necessary, see ⇒ <i>Technical Information 'Replacing oil drain plug'</i> .
		Sealing ring damaged	
⇒ Lower side of transmission-2-	ATF pan	Screws loose	Check that they are installed securely. Replace screws on the ATF pan if necessary.
		Seal damaged	Replace ATF pan, see ⇒ <i>Technical Information 'Replacing ATF pan'</i> .
⇒ Lower side of transmission-3-	Oil inspection plug	Plug loose	Check that it is installed securely. Replace lifting tube and oil inspection plug if necessary, see ⇒ <i>Technical Information 'Replacing oil inspection plug and oil pipe'</i> .
		Lifting tube loose	

Leaks on front side of transmission



Front side of transmission

Position	Oil leak	Cause	Repair measure
⇒ Front side of transmission-1-	Clutch bell-housing and clutch cover	Apparent assembly grease leak	No action required.
		Grease leak on dual-mass flywheel	Check dual-mass flywheel, see ⇒ <i>Technical Information 'Checking dual-mass flywheel (DMF) on vehicles with PDK (11/14)'</i> .
		Engine leaking	Find oil leaks and fix them.
		Radial shaft seal on clutch cover damaged	Replace radial shaft seal, see ⇒ <i>Technical Information 'Replacing radial shaft seal'</i> .
		O-ring on clutch cover damaged	Replace double clutch transmission, see ⇒ <i>Technical Information 'Replacing double clutch transmission'</i> .
⇒ Front side of transmission-2-	Clutch cover	Radial shaft seal on clutch cover damaged	Replace radial shaft seal, see ⇒ <i>Technical Information 'Replacing radial shaft seal'</i> .
⇒ Front side of transmission-3-	Central connector at the left	Connector leaking	Replace wire harness in transmission, see ⇒ <i>Technical Information 'Wire harness displaced'</i> .
⇒ Front side of transmission-4-	Central connector at the right	Connector leaking	Replace double clutch transmission, see ⇒ <i>Technical Information 'Replacing double clutch transmission'</i> .

Leaks on rear side of transmission*Rear side of transmission*

Position	Oil leak	Cause	Repair measure
⇒ <i>Rear side of transmission-1-</i>	Rear-axle shaft	Shaft sealing ring damaged	Replace sealing ring on cardan flange, see ⇒ <i>Technical Information 'Replacing cardan flange sealing ring'</i> .

Replacing sealing ring on ATF cooling line

Work Procedure: 1 Replace sealing ring on ATF cooling line, see

- ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line (rear section)'* or
- ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line (Hybrid)'*.

2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Parts required:**

Part No.	Designation - Use	Qty.
9A700819800	⇒ O-ring - ATF cooling line	2 ea.
9A700852600	⇒ Screw plug - Checking and topping up ATF	1 ea.

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

Part No.	Designation - Use	Qty.
00004321044	⇒ Transmission oil - Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 1 liter/ 33.8 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
38624940	Reworking ATF cooling line	
38624945	Reworking ATF cooling line (PHEV)	

PQIS coding:

Location (FES5)	38620	ATF cooling line
Damage type (SA4)	1521	Crack/tear

References: ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line (rear section)'*
 ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line (Hybrid)'*
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing ATF cooling line

- Work Procedure: 1 Replace ATF cooling line, see
 ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line (rear section)'* or
 ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line (Hybrid)'*
- 2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info:

Parts required:

Part No.	Designation - Use	Qty.
9A700852600	⇒ Screw plug - Checking and topping up ATF	1 ea.

Additional parts required (not for PHEV):

Part No.	Designation - Use	Qty.
ODS317760	⇒ Oil pressure line (complete) - ATF cooling	1 ea.

Additional parts required (V6 PHEV):

Part No.	Designation - Use	Qty.
ODS317760A	⇒ Oil pressure line (complete) - ATF cooling	1 ea.

Additional parts required (V8 PHEV):

Part No.	Designation - Use	Qty.
ODS317760A	⇒ Oil pressure line (complete) - ATF cooling	1 ea.
	or	
ODS317760B	⇒ Rear oil pressure line (from 25.09.2017) - ATF cooling	1 ea.
	and	
ODS317760C	⇒ Front oil pressure line (from 25.09.2017) - ATF cooling	1 ea.

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

Part No.	Designation – Use	Qty.
00004321044	⇒ Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 1 liter/ 33.8 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
38621900	Removing and installing front ATF cooling line	
38621951	Removing and installing rear ATF cooling line	
37023550	Checking and topping up ATF	

PQIS coding:

Location (FES5)	38620	ATF cooling line
Damage type (SA4)	1521	Crack/tear

- References: ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line (rear section)'*
 ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line (Hybrid)'*
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing sealing ring for parking lock

Work Procedure: 1 Replace sealing ring for parking lock.

2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Parts required:**

Part No.	Designation – Use	Qty.
9A700851800	⇒ Shaft sealing ring – Parking lock	1 ea.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

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

Part No.	Designation - Use	Qty.
00004321044	⇒ Transmission oil - Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the PQIS coding and relevant part numbers specified below in the warranty claim:

Location (FES5)	38740	Parking lock
Damage type (SA4)	1711	Sluggish, jammed, too little play

References: ⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing screw plug

Work Procedure: 1 Replace screw plug and tighten to **Tightening torque 8 Nm (6ftlb.)** .

2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Parts required:**

Part No.	Designation - Use	Qty.
9A700852600	⇒ Screw plug - Transmission housing	1 ea.
9A700852600	⇒ Screw plug - Checking and topping up ATF	1 ea.

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

Part No.	Designation - Use	Qty.
00004321044	⇒ Transmission oil - Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
37344905	Replacing left screw plug	
37344903	Replacing left screw plugs	
37344902	Replacing right screw plugs	
37023550	Checking and topping up ATF	

PQIS coding:

Location (FES5)	37340	Double clutch transmission
Damage type (SA4)	5071	Oil consumption too high

References: ⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing sealing ring for front output shaft

- Work Procedure: 1 Replace sealing ring for front output shaft, see ⇒ *Workshop Manual '387055 Replacing sealing ring for front output shaft'*.
- 2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Parts required:**

Part No.	Designation	Qty.
	- Location	
9A730145700	⇒ Shaft sealing ring	1 ea.
	- Transmission output	
9A700851900	⇒ Cover ring	1 ea.
	- Transmission output	
N 90576501	⇒ O-ring	2 ea.
	- Connecting shaft	
9A700839600	⇒ Hexagon-head bolt	5 ea.
	- Transmission	
N 91153202	⇒ 12-point bolt	4 ea.
	- Transmission	
WHT004955A	⇒ Internal hexagon round cheese head bolt	1 ea.
	- Universal joint	
N 10714101	⇒ Hexagon flange bolt	2 ea.
	- Door sill strut	
N 91244301	⇒ Hex flange bolt with hexagon socket head	2 ea.
	- Door sill strut	

N 91006202	⇒ Hexagon-head bolt – Anti-roll bar	4 ea.
9A700489400	⇒ O-ring – Rear cardan shaft	1 ea.
9A752572202	⇒ Circlip – Rear cardan shaft	1 ea.
WHT005156	⇒ O-ring – Rear cardan shaft	1 ea.
9A750730100	⇒ Circlip – Rear cardan shaft	1 ea.
99904903240	⇒ Hexagon plastic collar nut – Rear underbody cover	4 ea.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

Additional parts required (V6 monoturbo):

Part No.	Designation – Location	Qty.
9A725372510	⇒ Clamp – Primary catalytic converter	1 ea.
9A725311507	⇒ Seal – Primary catalytic converter	1 ea.
N 10664503	⇒ Hex flange bolt – Dome strut	2 ea.
WHT008539	⇒ Hex flange bolt with multiple-tooth head – Dome strut	2 ea.
N 10261311	⇒ Hexagon nut – Dome strut	2 ea.
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Dome strut	2 ea.
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.
N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.

N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.
	or	
N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
9A700819800	⇒ O-ring (I-no. OKO, A8F, EOW) – ATF cooling line	2 ea.
N 91130801	⇒ Hexagon collar nut, self-locking – Catalytic converter	3 ea.
95811111300	⇒ Seal – Catalytic converter	1 ea.
95511110830	⇒ Clamp – Catalytic converter	1 ea.

Additional parts required (V6 biturbo):

Part No.	Designation – Use	Qty.
9A725372500	⇒ Clamp – Primary catalytic converter	2 ea.
971253115B	⇒ Seal – Primary catalytic converter	2 ea.
N 10664503	⇒ Hex flange bolt – Dome strut	2 ea.
WHT008539	⇒ Hex flange bolt with multiple-tooth head – Dome strut	2 ea.
N 10261311	⇒ Hexagon nut – Dome strut	2 ea.
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Dome strut	2 ea.
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.

N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.
N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.
	or	
N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
9A700819800	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
N 91130801	⇒ Hexagon collar nut, self-locking – Catalytic converter	6 ea.
95811111300	⇒ Seal – Catalytic converter	2 ea.
95511110830	⇒ Clamp – Catalytic converter	2 ea.

Additional parts required (V8 biturbo):

Part No.	Designation – Use	Qty.
N 10628301	⇒ Hex flange bolt – Lower trailing arm	2 ea.
PAF104029	⇒ Hexagon collar nut – Lower trailing arm	2 ea.
N 91244301	⇒ Hex flange bolt with hexagon socket head – Front-axle carrier	6 ea.
N 90666003	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
WHT004571	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	4 ea.
	or	
WHT004572	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	4 ea.

012409413	⇒ Circlip (I-no. 1X1) – Input flange on all-wheel final drive	1 ea.
95511110830	⇒ Clamp – Catalytic converter	2 ea.
9A725372500	⇒ Clamp – Primary catalytic converter	2 ea.
971253115B	⇒ Seal – Primary catalytic converter	2 ea.

Additional parts required (V8 Diesel):

Part No.	Designation – Use	Qty.
N 90440003	⇒ Hexagon-head bolt – Strut (A-strut)	2 ea.
N 10261311	⇒ Hexagon nut – Strut (A-strut)	2 ea.
PAB253725	⇒ Clamp – Catalytic converter	2 ea.
5Q0253115B	⇒ Seal – Catalytic converter	2 ea.
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.
N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.

or

N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
9A700819800	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
9A725311531	⇒ Seal – Particle filter	1 ea.
9A725372521	⇒ Clamp – Particle filter	1 ea.
04L253115	⇒ Seal – Reducing agent injection valve	1 ea.
95811162510	⇒ Clamp – Reducing agent injection valve	1 ea.
9A725313940	⇒ Clamp – Particle filter	1 ea.

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

Part No.	Designation – Use	Qty.
00004330586	⇒ Mounting paste – Input flange on all-wheel final drive	10 g tube ¹⁾
00004321044	⇒ Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ²⁾

¹⁾ approx. 2 grams/ 0.07 oz required per vehicle

²⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Additional materials required (V8 biturbo):

Part No.	Designation – Use	Qty.
00004320593	⇒ Lubricating grease – O-rings for cooling system	100g tube ¹⁾
00004330516	⇒ Coolant additive	20 liter/ 5.28 gal container ²⁾

¹⁾ approx. 10 grams/ 0.35 oz required per vehicle

²⁾ approx. 0.5 liter/ 16.9 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
38705550	Replacing sealing ring for front output shaft	
37023550	Checking and topping up ATF	

PQIS coding:

Location (FES5)	37340	Double clutch transmission
Damage type (SA4)	5071	Oil consumption too high

References: ⇒ *Workshop Manual '387055 Replacing sealing ring for front output shaft'*

⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing connecting shaft

Work Procedure: 1 Replace connecting shaft, see ⇒ *Workshop Manual '387055 Replacing sealing ring for front output shaft'*.

2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Parts required:**

Part No.	Designation – Location	Qty.
9A730720300	⇒ Connecting shaft	1 ea.
9A730145700	⇒ Shaft sealing ring – Transmission output	1 ea.
9A700851900	⇒ Cover ring – Transmission output	1 ea.
9A700839600	⇒ Hexagon-head bolt – Transmission	5 ea.
N 91153202	⇒ 12-point bolt – Transmission	4 ea.
WHT004955A	⇒ Internal hexagon round cheese head bolt – Universal joint	1 ea.
N 10714101	⇒ Hexagon flange bolt – Door sill strut	2 ea.
N 91244301	⇒ Hex flange bolt with hexagon socket head – Door sill strut	2 ea.
N 91006202	⇒ Hexagon-head bolt – Anti-roll bar	4 ea.

9A700489400	⇒ O-ring – Rear cardan shaft	1 ea.
9A752572202	⇒ Circlip – Rear cardan shaft	1 ea.
WHT005156	⇒ O-ring – Rear cardan shaft	1 ea.
9A750730100	⇒ Circlip – Rear cardan shaft	1 ea.
99904903240	⇒ Hexagon plastic collar nut – Rear underbody cover	4 ea.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

Additional parts required (V6 monoturbo):

Part No.	Designation – Location	Qty.
9A725372510	⇒ Clamp – Primary catalytic converter	1 ea.
9A725311507	⇒ Seal – Primary catalytic converter	1 ea.
N 10664503	⇒ Hex flange bolt – Dome strut	2 ea.
WHT008539	⇒ Hex flange bolt with multiple-tooth head – Dome strut	2 ea.
N 10261311	⇒ Hexagon nut – Dome strut	2 ea.
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Dome strut	2 ea.
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.
N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.

	or	
N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
9A700819800	⇒ O-ring (I-no. OK0, A8F, E0W) – ATF cooling line	2 ea.
N 91130801	⇒ Hexagon collar nut, self-locking – Catalytic converter	3 ea.
95811111300	⇒ Seal – Catalytic converter	1 ea.
95511110830	⇒ Clamp – Catalytic converter	1 ea.

Additional parts required (V6 biturbo):

Part No.	Designation – Use	Qty.
9A725372500	⇒ Clamp – Primary catalytic converter	2 ea.
971253115B	⇒ Seal – Primary catalytic converter	2 ea.
N 10664503	⇒ Hex flange bolt – Dome strut	2 ea.
WHT008539	⇒ Hex flange bolt with multiple-tooth head – Dome strut	2 ea.
N 10261311	⇒ Hexagon nut – Dome strut	2 ea.
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Dome strut	2 ea.
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.

N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.
or		
N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
9A700819800	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
N 91130801	⇒ Hexagon collar nut, self-locking – Catalytic converter	6 ea.
95811111300	⇒ Seal – Catalytic converter	2 ea.
95511110830	⇒ Clamp – Catalytic converter	2 ea.

Additional parts required (V8 biturbo):

Part No.	Designation – Use	Qty.
N 10628301	⇒ Hex flange bolt – Lower trailing arm	2 ea.
PAF104029	⇒ Hexagon collar nut – Lower trailing arm	2 ea.
N 91244301	⇒ Hex flange bolt with hexagon socket head – Front-axle carrier	6 ea.
N 90666003	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
WHT004571	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	4 ea.
or		
WHT004572	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	4 ea.
012409413	⇒ Circlip (I-no. 1X1) – Input flange on all-wheel final drive	1 ea.

95511110830	⇒ Clamp – Catalytic converter	2 ea.
9A725372500	⇒ Clamp – Primary catalytic converter	2 ea.
971253115B	⇒ Seal – Primary catalytic converter	2 ea.

Additional parts required (V8 Diesel):

Part No.	Designation – Use	Qty.
N 90440003	⇒ Hexagon-head bolt – Strut (A-strut)	2 ea.
N 10261311	⇒ Hexagon nut – Strut (A-strut)	2 ea.
PAB253725	⇒ Clamp – Catalytic converter	2 ea.
5Q0253115B	⇒ Seal – Catalytic converter	2 ea.
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.
N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.
	or	
N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.

9A700819800	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
9A725311531	⇒ Seal – Particle filter	1 ea.
9A725372521	⇒ Clamp – Particle filter	1 ea.
04L253115	⇒ Seal – Reducing agent injection valve	1 ea.
95811162510	⇒ Clamp – Reducing agent injection valve	1 ea.
9A725313940	⇒ Clamp – Particle filter	1 ea.

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

Part No.	Designation – Use	Qty.
00004330586	⇒ Mounting paste – Input flange on all-wheel final drive	10 g tube ¹⁾
00004321044	⇒ Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ²⁾

¹⁾ approx. 2 grams/ 0.07 oz required per vehicle

²⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Additional materials required (V8 biturbo):

Part No.	Designation – Use	Qty.
00004320593	⇒ Lubricating grease – O-rings for cooling system	100g tube ¹⁾
00004330516	⇒ Coolant additive	20 liter/ 5.28 gal container ²⁾

¹⁾ approx. 10 grams/ 0.35 oz required per vehicle

²⁾ approx. 0.5 liter/ 16.9 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
38705550	Replacing sealing ring for front output shaft	
37023550	Checking and topping up ATF	

PQIS coding:

Location (FES5)	37340	Double clutch transmission
Damage type (SA4)	5071	Oil consumption too high

References: ⇒ *Workshop Manual '387055 Replacing sealing ring for front output shaft'*
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing cap at transmission output

- Work Procedure: 1 Replace cap at transmission output.
 2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Parts required:**

Part No.	Designation	Qty.
	- Location	
9A732107300	⇒ Cap	1 ea.
	- Transmission output	
9A700852600	⇒ Screw plug	1 ea.
	- Checking and topping up ATF	

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

Part No.	Designation	Qty.
	- Use	
00004321044	⇒ Transmission oil	20 liter/ 5.28 gal
	- Checking and topping up ATF	container ²⁾

¹⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
34495590	Replacing cap	
37023550	Checking and topping up ATF	

PQIS coding:

Location (FES5)	37340	Double clutch transmission
Damage type (SA4)	5071	Oil consumption too high

References: ⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing double clutch transmission

- Work Procedure: 1 Replace double clutch transmission, see ⇒ *Workshop Manual '373455 Replacing double clutch transmission'*.
- 2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Parts required:**

Part No.	Designation	Qty.
	- Use	
9A700839600	⇒ Hexagon-head bolt - Transmission	5 ea.
N 91153202	⇒ 12-point bolt - Transmission	4 ea.
WHT004955A	⇒ Internal hexagon round cheese head bolt - Universal joint	1 ea.
N 10714101	⇒ Hexagon flange bolt - Door sill strut	2 ea.
N 91244301	⇒ Hex flange bolt with hexagon socket head - Door sill strut	2 ea.
N 91006202	⇒ Hexagon-head bolt - Anti-roll bar	4 ea.
N 10628301	⇒ Hex flange bolt - Lower trailing arm	2 ea.
PAF104029	⇒ Hexagon collar nut - Lower trailing arm	2 ea.
N 91244301	⇒ Hex flange bolt with hexagon socket head - Front-axle carrier	6 ea.
N 90666003	⇒ O-ring (I-no. OK0, A8F, EOW) - ATF cooling line	2 ea.

WHT004571	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	4 ea.
or		
WHT004572	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	4 ea.
012409413	⇒ Circlip (I-no. 1X1) – Input flange on all-wheel final drive	1 ea.
9A700489400	⇒ O-ring – Rear cardan shaft	1 ea.
9A752572202	⇒ Circlip – Rear cardan shaft	1 ea.
WHT005156	⇒ O-ring – Rear cardan shaft	1 ea.
9A750730100	⇒ Circlip – Rear cardan shaft	1 ea.
99904903240	⇒ Hexagon plastic collar nut – Rear underbody cover	4 ea.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

Additional parts required (V6 monoturbo):

Part No.	Designation – Use	Qty.
95511110830	⇒ Clamp – Catalytic converter	2 ea.
9A725372510	⇒ Clamp – Primary catalytic converter	1 ea.
9A725311507	⇒ Seal – Primary catalytic converter	1 ea.

Additional parts required (V6 and V8 biturbo):

Part No.	Designation – Use	Qty.
9A700863500 ¹⁾	⇒ Internal hexagon round-head bolt – Electric motor	14 ea.
9A7301131 ¹⁾	⇒ Seal for transmission cover – Electric motor	1 ea.

N 90440003 ¹⁾	⇒ Hexagon-head bolt – Strut (A-strut)	2 ea.
N 10261311 ¹⁾	⇒ Hexagon nut – Strut (A-strut)	2 ea.
N 10750001 ²⁾	⇒ Internal hexagon round-head countersunk screw – Heat protection on transmission	4 ea.
95511110830	⇒ Clamp – Catalytic converter	2 ea.
9A725372500	⇒ Clamp – Primary catalytic converter	2 ea.
971253115B	⇒ Seal – Primary catalytic converter	2 ea.

¹⁾ Only for hybrid vehicles

²⁾ Not for hybrid vehicles

Additional parts required (V8 Diesel):

Part No.	Designation – Use	Qty.
N 10750001	⇒ Internal hexagon round-head countersunk screw – Heat protection on transmission	4 ea.
N 10664503	⇒ Hex flange bolt – Dome strut	2 ea.
95557374902	⇒ Round seal – Air-conditioning line in engine compartment	1 ea.
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Front lock carrier reinforcement	2 ea.
9A791194602	⇒ Cheese head bolt – Front lock carrier reinforcement	7
PAB253725	⇒ Clamp – Catalytic converter	2 ea.
5Q0253115B	⇒ Seal – Catalytic converter	2 ea.
04L253115	⇒ Seal – Reducing agent injection valve	1 ea.

95811162510	⇒ Clamp – Reducing agent injection valve	1 ea.
9A725313940	⇒ Clamp – Particle filter	1 ea.

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

Part No.	Designation – Use	Qty.
00004330586	⇒ Mounting paste (I-no. 1X1) – Input flange on all-wheel final drive	10 g tube ¹⁾
00004320593	⇒ Lubricating grease – O-rings for cooling system	100 g tube ²⁾
00004330516	⇒ Coolant additive	20 liter/ 5.28 gal container ³⁾
00004321044	⇒ Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ⁴⁾

- 1) approx. 2 grams/ 0.07 oz required per vehicle
- 2) approx. 10 grams/ 0.35 oz required per vehicle
- 3) approx. 0.5 liter/ 16.9 fl oz required per vehicle
- 4) approx. 0.1 liter/ 3.38 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
37344901	Reworking bottom left screw plug	
37344904	Reworking top left screw plug	
37374990	Reworking front transmission housing screws	
37374991	Reworking rear transmission housing screws	
37345560	Replacing double clutch transmission	
37345565	Replacing double clutch transmission	
37345570	Replacing double clutch transmission	
37345580	Replacing double clutch transmission	
37345595	Replacing double clutch transmission	
37023550	Checking and topping up ATF	

PQIS coding:

Location (FES5)	30490	Double clutch
Damage type (SA4)	5041	Oil/grease leak

References: ⇒ *Workshop Manual '373455 Replacing double clutch transmission'*⇒ *Workshop Manual '370235 Checking and topping up ATF'***Checking and topping up ATF**Work Procedure: 1 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.Parts Info: **Parts required:**

Part No.	Designation – Use	Qty.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

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

Part No.	Designation – Use	Qty.
00004321044	⇒ Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
37023550	Checking and topping up ATF	

PQIS coding:

Location (FES5)	37020	ATF
Damage type (SA4)	3017	Traces of oil/grease/wax

References: ⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Changing ATF

Work Procedure: 1 Change ATF, see ⇒ *Workshop Manual '370255 Changing ATF'*.

Parts Info:

Parts required:

Part No.	Designation – Use	Qty.
PAF008973	⇒ Screw plug with sealing ring – ATF pan	1 ea.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

Materials:

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

Part No.	Designation – Use	Qty.
00004321044	⇒ Transmission oil – Changing ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 6 liter/ 1.59 gal required per vehicle

Invoicing:

For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
37554990	Reworking oil drain plug	
37554991	Replacing ATF pan	
37025550	Changing ATF	

PQIS coding:

Location (FES5)	37020	ATF
Damage type (SA4)	3017	Traces of oil/grease/wax

or

Location (FES5)	37550	ATF pan
Damage type (SA4)	1817	Loose

References: ⇒ *Workshop Manual '370255 Changing ATF'*

Replacing hydraulic chamber breather

Work Procedure: 1 Replace hydraulic chamber breather.

2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info:

Parts required:

Part No.	Designation – Use	Qty.
9A732121100	⇒ Breather pipe – Upper side of transmission	1 ea.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

Materials:

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

Part No.	Designation – Use	Qty.
00004321044	⇒ Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the PQIS coding and relevant part numbers specified below in the warranty claim:

Location (FES5)	37020	ATF
Damage type (SA4)	3017	Traces of oil/grease/wax

References: ⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing ATF pan

Work Procedure: 1 Replace ATF pan, see ⇒ *Workshop Manual '375519 Removing and installing ATF pan'*.

Parts Info:

Parts required:

Part No.	Designation – Use	Qty.
9A731716500	⇒ Transmission oil pan (ATF pan)	1 ea.
9A731707000	⇒ Seal – ATF pan	1 ea.
9A700855200	⇒ Round head screw – ATF pan	13 ea.

PAF008973	⇒ Screw plug with sealing ring – ATF pan	1 ea.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

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

Part No.	Designation – Use	Qty.
00004321044	⇒ Transmission oil – Changing ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 6 liter/ 1.59 gal required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
37551900	Removing and installing ATF pan	

PQIS coding:

Location (FES5)	37550	ATF pan
Damage type (SA4)	1817	Loose

References: ⇒ *Workshop Manual '375519 Removing and installing ATF pan'*

Replacing lifting tube and oil inspection plug

- Work Procedure:
- 1 Replace oil drain plug, see ⇒ *Workshop Manual '370255 Changing ATF'*.
 - 2 Replace lifting tube and tighten to **Tightening torque 27 Nm (20 ftlb.)** .
 - 3 Replace oil inspection plug, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Parts required:**

Part No.	Designation – Use	Qty.
9A732147500	⇒ Oil pipe (up to production number 00006999) – Checking and topping up ATF or	1 ea.

9A7321475	⇒ Oil pipe (from production number 00007000) – Checking and topping up ATF	1 ea.
	or	
9A732147501	⇒ Oil pipe (Panamera base model) – Checking and topping up ATF	1 ea.
PAF008973	⇒ Screw plug with sealing ring – ATF pan	1 ea.
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 ea.

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

Part No.	Designation – Use	Qty.
00004321044	⇒ Transmission oil – Changing ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 6 liter/ 1.59 gal required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
37554992	Reworking lifting tube and oil inspection plug	

PQIS coding:

Location (FES5)	37020	ATF
Damage type (SA4)	3017	Traces of oil/grease/wax

References: ⇒ *Workshop Manual '370255 Changing ATF'*
⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing radial shaft seal

Work Procedure: 1 Replace radial shaft seal, see ⇒ *Workshop Manual '386955 Replacing radial shaft seal'*.

2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info:

Parts required:

Part No.	Designation - Location	Qty.
9A714242600	⇒ Shaft sealing ring - Clutch cover	1 ea.
9A700839600	⇒ Hexagon-head bolt - Transmission	5 ea.
N 91153202	⇒ 12-point bolt - Transmission	4 ea.
WHT004955A	⇒ Internal hexagon round cheese head bolt - Universal joint	1 ea.
N 10714101	⇒ Hexagon flange bolt - Door sill strut	2 ea.
N 91244301	⇒ Hex flange bolt with hexagon socket head - Door sill strut	2 ea.
N 91006202	⇒ Hexagon-head bolt - Anti-roll bar	4 ea.
9A700489400	⇒ O-ring - Rear cardan shaft	1 ea.
9A752572202	⇒ Circlip - Rear cardan shaft	1 ea.
WHT005156	⇒ O-ring - Rear cardan shaft	1 ea.
9A750730100	⇒ Circlip - Rear cardan shaft	1 ea.
99904903240	⇒ Hexagon plastic collar nut - Rear underbody cover	4 ea.
9A700852600	⇒ Screw plug - Checking and topping up ATF	1 ea.

Additional parts required (V6 monoturbo):

Part No.	Designation - Location	Qty.
9A725372510	⇒ Clamp - Primary catalytic converter	1 ea.
9A725311507	⇒ Seal - Primary catalytic converter	1 ea.
N 10664503	⇒ Hex flange bolt - Dome strut	2 ea.
WHT008539	⇒ Hex flange bolt with multiple-tooth head - Dome strut	2 ea.
N 10261311	⇒ Hexagon nut - Dome strut	2 ea.

N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Dome strut	2 ea.
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.
N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.
	or	
N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
9A700819800	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
N 91130801	⇒ Hexagon collar nut, self-locking – Catalytic converter	3 ea.
95811111300	⇒ Seal – Catalytic converter	1 ea.
95511110830	⇒ Clamp – Catalytic converter	1 ea.

Additional parts required (V6 biturbo):

Part No.	Designation – Use	Qty.
9A725372500	⇒ Clamp – Primary catalytic converter	2 ea.
971253115B	⇒ Seal – Primary catalytic converter	2 ea.

N 10664503	⇒ Hex flange bolt – Dome strut	2 ea.
WHT008539	⇒ Hex flange bolt with multiple-tooth head – Dome strut	2 ea.
N 10261311	⇒ Hexagon nut – Dome strut	2 ea.
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Dome strut	2 ea.
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.
N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.
	or	
N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
9A700819800	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
N 91130801	⇒ Hexagon collar nut, self-locking – Catalytic converter	6 ea.
95811111300	⇒ Seal – Catalytic converter	2 ea.
95511110830	⇒ Clamp – Catalytic converter	2 ea.

Additional parts required (V8 biturbo):

Part No.	Designation - Use	Qty.
N 10628301	⇒ Hex flange bolt - Lower trailing arm	2 ea.
PAF104029	⇒ Hexagon collar nut - Lower trailing arm	2 ea.
N 91244301	⇒ Hex flange bolt with hexagon socket head - Front-axle carrier	6 ea.
N 90666003	⇒ O-ring (I-no. OK0, A8F, EOW) - ATF cooling line	2 ea.
WHT004571	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LN, 1ZT, 1LU, 1LD) - Front brake calliper	4 ea.
or		
WHT004572	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) - Front brake calliper	4 ea.
012409413	⇒ Circlip (I-no. 1X1) - Input flange on all-wheel final drive	1 ea.
95511110830	⇒ Clamp - Catalytic converter	2 ea.
9A725372500	⇒ Clamp - Primary catalytic converter	2 ea.
971253115B	⇒ Seal - Primary catalytic converter	2 ea.

Additional parts required (V8 Diesel):

Part No.	Designation - Use	Qty.
N 90440003	⇒ Hexagon-head bolt - Strut (A-strut)	2 ea.
N 10261311	⇒ Hexagon nut - Strut (A-strut)	2 ea.
PAB253725	⇒ Clamp - Catalytic converter	2 ea.
5Q0253115B	⇒ Seal - Catalytic converter	2 ea.

N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.
N 91243701	⇒ Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.
	or	
N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
9A700819800	⇒ O-ring (I-no. OK0, A8F, EOW) – ATF cooling line	2 ea.
9A725311531	⇒ Seal – Particle filter	1 ea.
9A725372521	⇒ Clamp – Particle filter	1 ea.
04L253115	⇒ Seal – Reducing agent injection valve	1 ea.
95811162510	⇒ Clamp – Reducing agent injection valve	1 ea.
9A725313940	⇒ Clamp – Particle filter	1 ea.

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

Part No.	Designation – Use	Qty.
00004321044	⇒ Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Additional materials required (V8 biturbo):

Part No.	Designation	Qty.
	- Use	
00004330586	⇒ Mounting paste (I-no. 1X1) - Input flange on all-wheel final drive	10 g tube ¹⁾
00004320593	⇒ Lubricating grease - O-rings for cooling system	100 g tube ²⁾
00004330516	⇒ Coolant additive	20 liter/ 5.28 gal container ³⁾

1) approx. 2 grams/ 0.07 oz required per vehicle

2) approx. 10 grams/ 0.35 oz required per vehicle

3) approx. 0.5 liter/ 16.9 fl oz required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
38695550	Replacing radial shaft seal	
37023550	Checking and topping up ATF	

PQIS coding:

Location (FES5)	30490	Double clutch
Damage type (SA4)	5041	Oil/grease leak

References: ⇒ *Workshop Manual '386955 Replacing radial shaft seal'*
⇒ *Workshop Manual '370235 Checking and topping up ATF'*

Replacing wire harness in transmission

Work Procedure: 1 Replace wire harness in transmission, see ⇒ *Workshop Manual '381819 Removing and installing*

Parts Info: **Parts required:**

Part No.	Designation - Use	Qty.
9A790799800	⇒ Wire harness - Hydraulic control unit	1 ea.
or		
9A790799801	⇒ Wire harness (Panamera base model) - Hydraulic control unit	1 ea.
9A731710000	⇒ Sealing ring - ATF filter	1 ea.
9A731707000	⇒ Seal - ATF pan	1 ea.
9A700855200	⇒ Round head screw - ATF pan	13 ea.
PAF008973	⇒ Screw plug with sealing ring - ATF pan	1 ea.
9A700852600	⇒ Screw plug - Checking and topping up ATF	1 ea.

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

Part No.	Designation - Use	Qty.
00004321044	⇒ Transmission oil - Changing ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 6 liter/ 1.59 gal required per vehicle

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and relevant part numbers specified below in the warranty claim:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
38181950	Removing and installing wire harness for transmission	

PQIS coding:

Location (FES5)	38180	Wire harness for transmission
Damage type (SA4)	5000	Leaks

References: ⇒ *Workshop Manual '381819 Removing and installing wire harness in transmission'*

Replacing cardan flange sealing ring

- Work Procedure: 1 Replace sealing ring on cardan flange, see ⇒ *Workshop Manual '398255 Replacing cardan flange sealing ring'*.
- 2 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info:

Parts required:

Part No.	Designation - Use	Qty.
9A730122710	⇒ Shaft sealing ring - Cardan flange	1 ea.
9A730122710	⇒ Dust cap - Cardan flange	1 ea.
9A730715800	⇒ Circlip - Cardan flange	1 ea.
9A700489400	⇒ O-ring - Rear cardan shaft	1 ea.
9A752572202	⇒ Circlip - Rear cardan shaft	1 ea.
WHT005156	⇒ O-ring - Rear cardan shaft	1 ea.
9A750730100	⇒ Circlip - Rear cardan shaft	1 ea.
99904903240	⇒ Hexagon plastic collar nut - Rear underbody cover	4 ea.
9A700852600	⇒ Screw plug - Checking and topping up ATF	1 ea.

Additional parts required (V6 monoturbo):

Part No.	Designation - Location	Qty.
95511110830	⇒ Clamp - Catalytic converter	1 ea.

Additional parts required (V6 and V8 biturbo):

Part No.	Designation - Use	Qty.
95511110830	⇒ Clamp - Catalytic converter	2 ea.

Additional parts required (V8 Diesel):

Part No.	Designation - Use	Qty.
9A725313940	⇒ Clamp - Particle filter	1 ea.

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

Part No.	Designation - Use	Qty.
00004321044	⇒ Transmission oil - Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

¹⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle

Invoicing: The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
37340140	Checking double clutch transmission	
39825500	Replacing cardan flange sealing ring	
37023550	Checking and topping up ATF	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	38700	Output shaft seal
Damage type (SA4)	1521	Crack/tear

References: ⇒ *Workshop Manual '398255 Replacing cardan flange sealing ring'*

⇒ *Workshop Manual '370235 Checking and topping up ATF'*

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