

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

Change overview:

Version	Date	Change
0	04/05/2021	First publication
1	05/26/2023	<ul style="list-style-type: none"> • Order types added. • General information added. • Leaks on left side of transmission: Graphics for position 1 added. • Leaks on right side of transmission: Graphics for position 1 added. • Leaks on lower side of transmission: Information and diagram added on how to proceed in the event of a complaint.
2	02/16/2024	Information on PDK oil pan added

Model Line: **Panamera (971)**

Model Year: **As of 2017**

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

Cause:



Information

It was established that the location and cause of oil leakage could not be clearly determined in some cases.

As a result, some measures were not always effective.

For example, ATF pans are being replaced more frequently, although these are not the cause of the oil loss.

Oil leaks on double clutch transmission.

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

**Information**

In the complaint "Oil leakages on the Porsche Doppelkupplung (PDK)", the ATF oil pan is often incorrectly diagnosed as a component causing damage. Component analyses have shown that the contested ATF oil pans have no defect and were wrongly replaced. Replacing the ATF oil pan is only justified if documentation is correct. A faulty exchange will result in the warranty claim being charged back. Observe the general warranty guidelines and the documentation guidelines.

Content:

- 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**

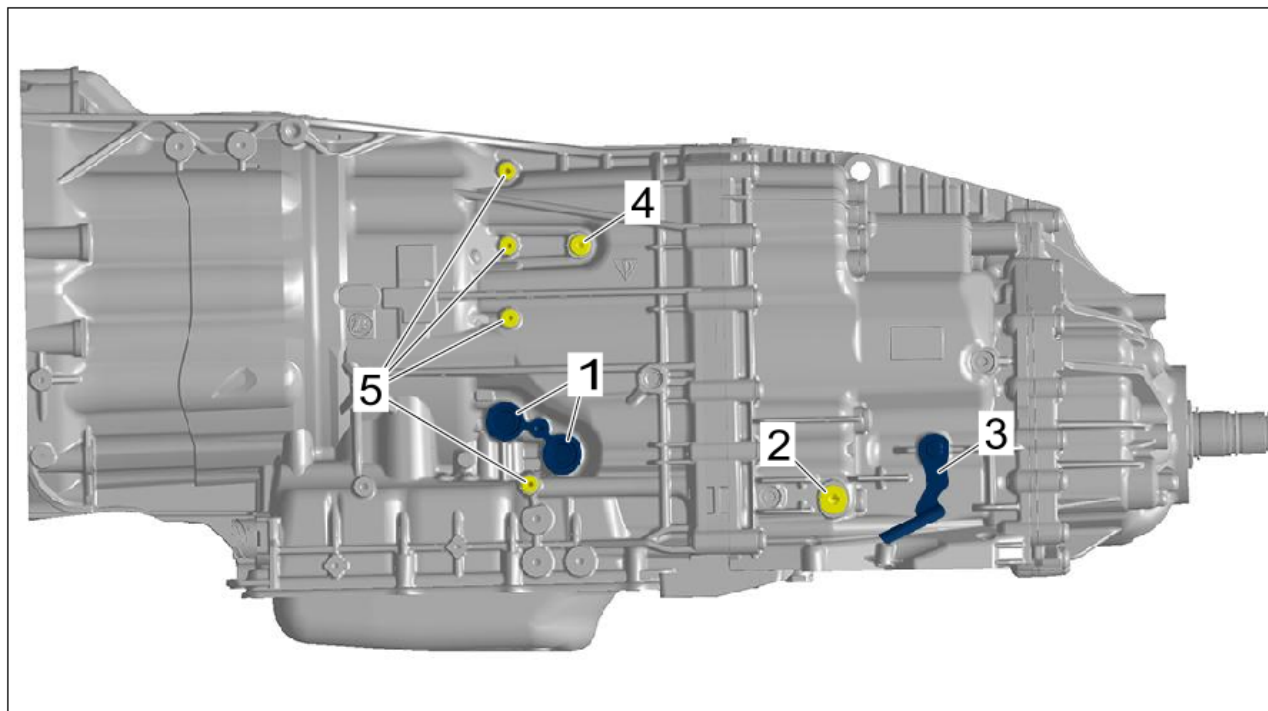
- Oil leaks must be clearly identifiable and reproducible.
 - Engine oil and coolant must have reached operating temperature during a test drive.
- 1 Document the original complaint condition with meaningful photos.
 - 2 Attach documentation to PQIS line.
 - 3 Clean the transmission thoroughly.

**Information**

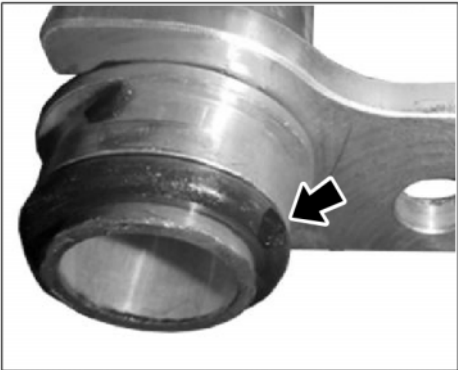
In the event of a complaint regarding oil leakages, the PDK must be thoroughly cleaned, including the transition between the oil pan and transmission, using a suitable cleaning agent. Then both the transmission and the oil pan have to be blown off with compressed air and dried before leakage detection spray is applied to the suspected leakage point.



- 4 Spray large areas of the transmission with SpotCheck around the suspected leakage points.
- 5 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



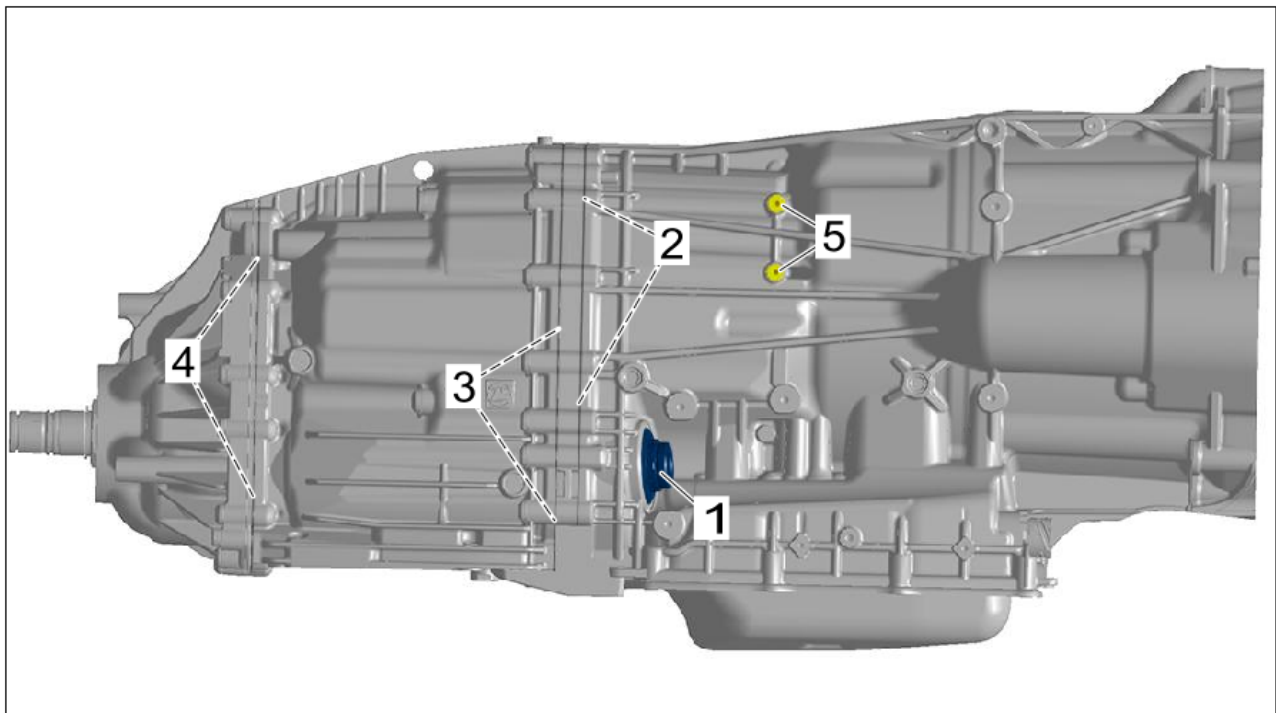
Left side of transmission

Position	Leak area	Possible cause(s)	Repair measure
<p>⇒ Left side of transmission-1-</p>	<p>ATF cooler connections</p>	<p>Sealing ring damaged:</p>  <p>ATF cooler sealing ring</p>	<p>Replace sealing ring on ATF cooling line, see ⇒ Technical Information 'Replacing sealing ring on ATF cooling line'.</p>



		<p>Line corroded or crimping damaged:</p>  <p><i>ATF cooling line - corroded</i></p>  <p><i>ATF cooling line - crimping damaged</i></p>	<p>Replace ATF cooling line, see ⇒ <i>Technical Information 'Replacing ATF cooling line'</i>.</p>
⇒ <i>Left side of transmission -2-</i>	Screw plug	Screw loose	Check that it is installed securely.
		Sealing ring damaged	Replace double clutch transmission, see ⇒ <i>Technical Information 'Replacing double clutch transmission'</i> .
⇒ <i>Left side of transmission -3-</i>	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	Screw 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	Screw 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

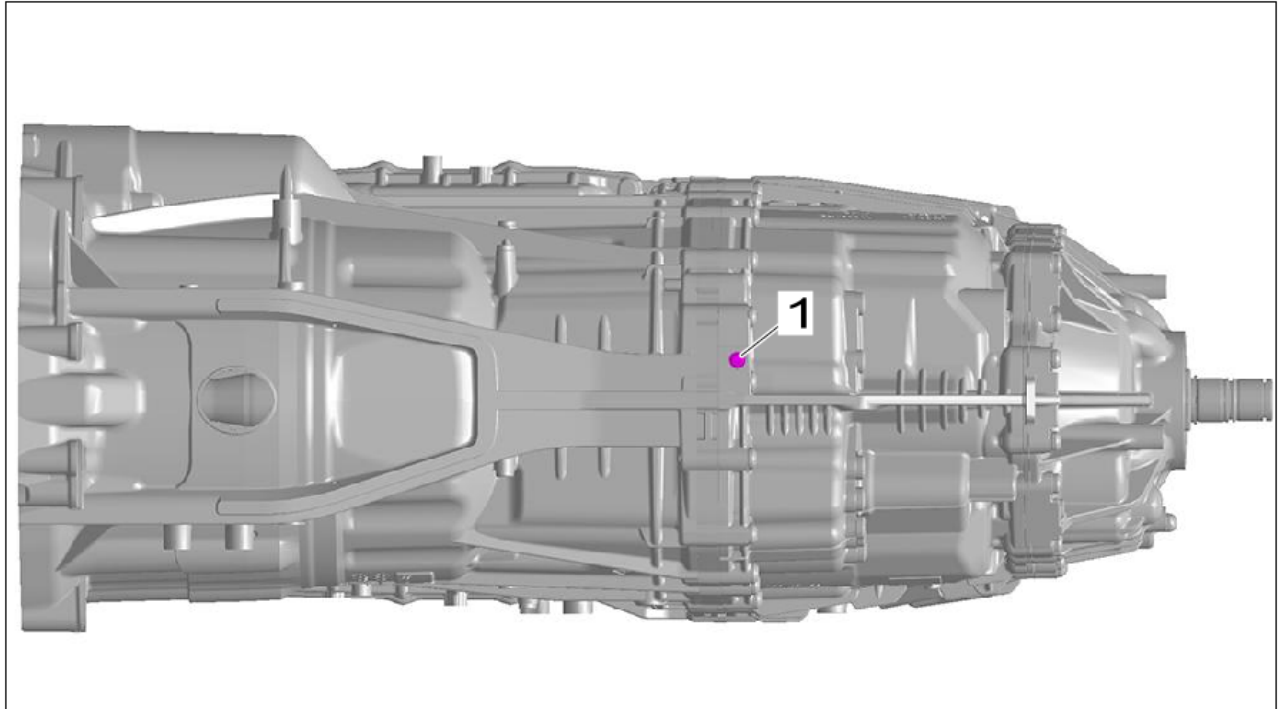


Right side of transmission

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

⇒ <i>Right side of transmission-2-</i>	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> .
⇒ <i>Right side of transmission-3-</i>	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> .
⇒ <i>Right side of transmission-4-</i>	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> .
⇒ <i>Right side of transmission-5-</i>	Screw plug	Screw 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 space bleeder	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.



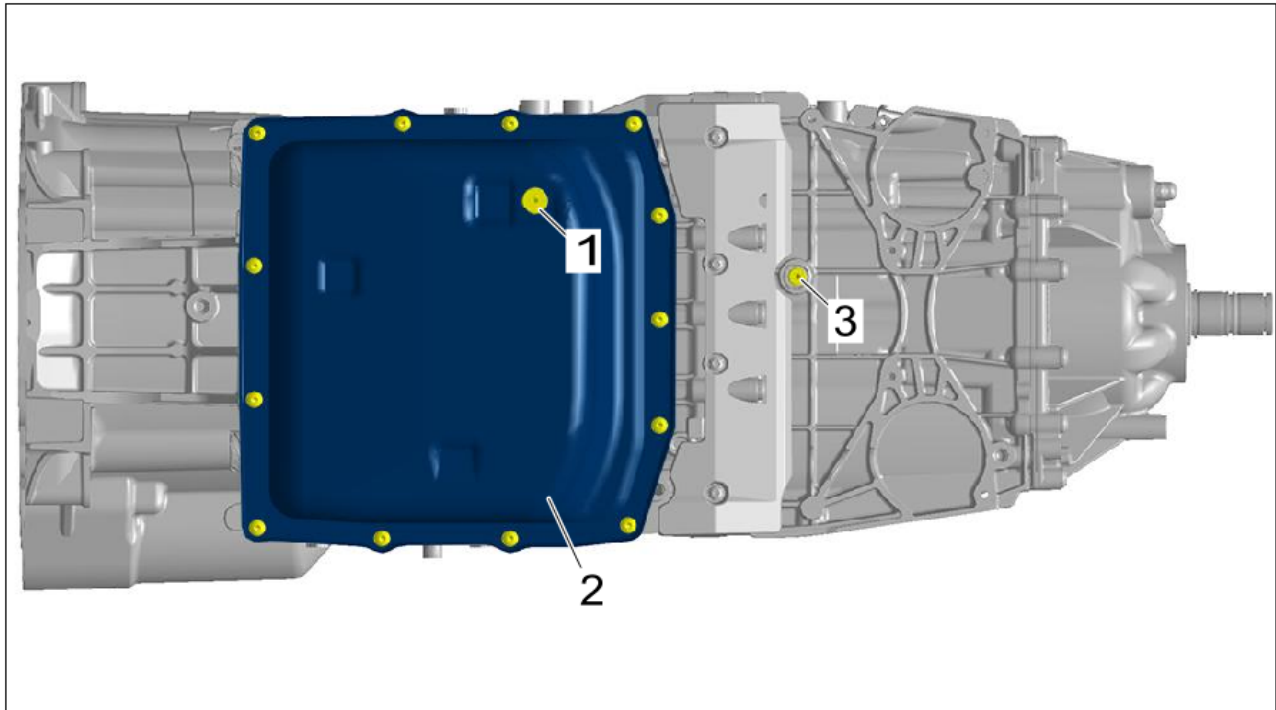
Information

If the oil leak has spread so that the oil pan is also oily, as shown, proceed as follows in the event of a complaint:

- Ensure that the accessible oil pan screws are tighten to the specified torque.
- Before carrying out any further work, the entire transmission must be thoroughly cleaned in the areas of oil leaks/ oil contamination and sprayed with a suitable leak tracer/ spray (commercially available).
- Clean the transmission oil pan area extremely thoroughly. An oil pan seal leak can lead to incorrect interpretations. Then perform a test drive.
- **After the test drive, check the transmission for oil leaks below.**



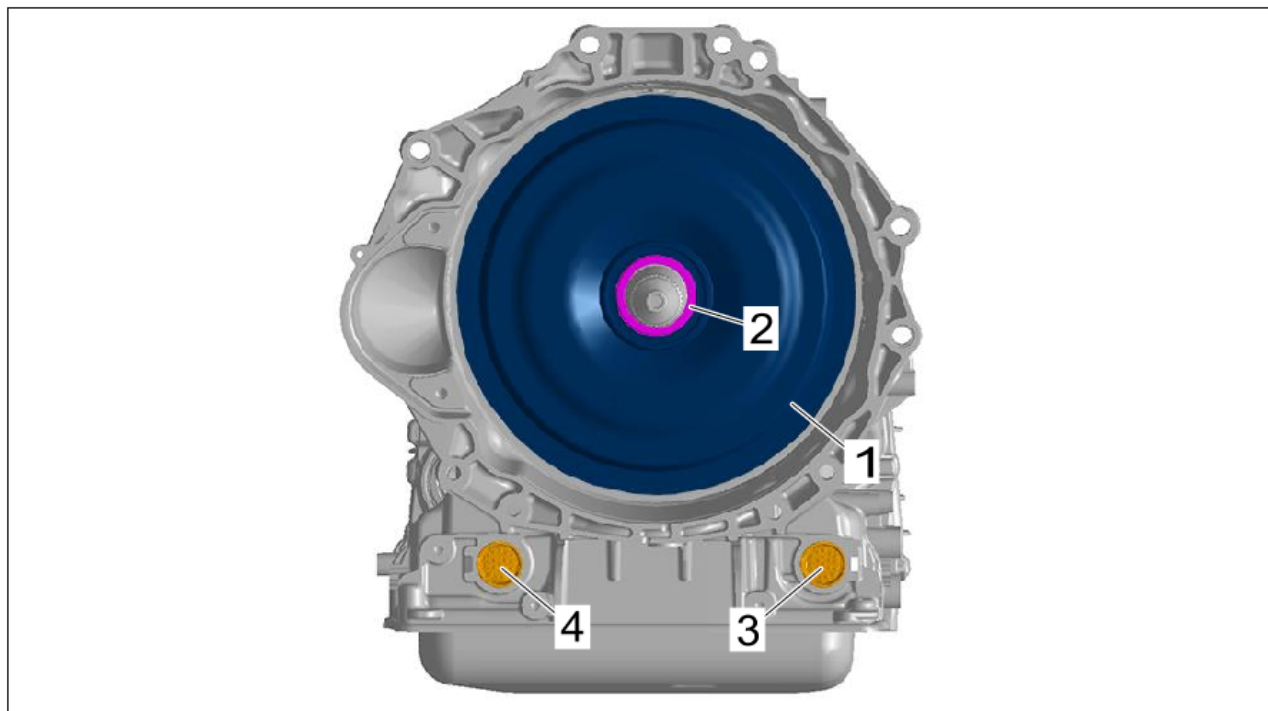
ATF oil pan



Lower side of transmission

Position	Oil leak	Cause	Repair measure
⇒ Lower side of transmission-1-	Oil drain plug	Screw 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 it is 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	Screw 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

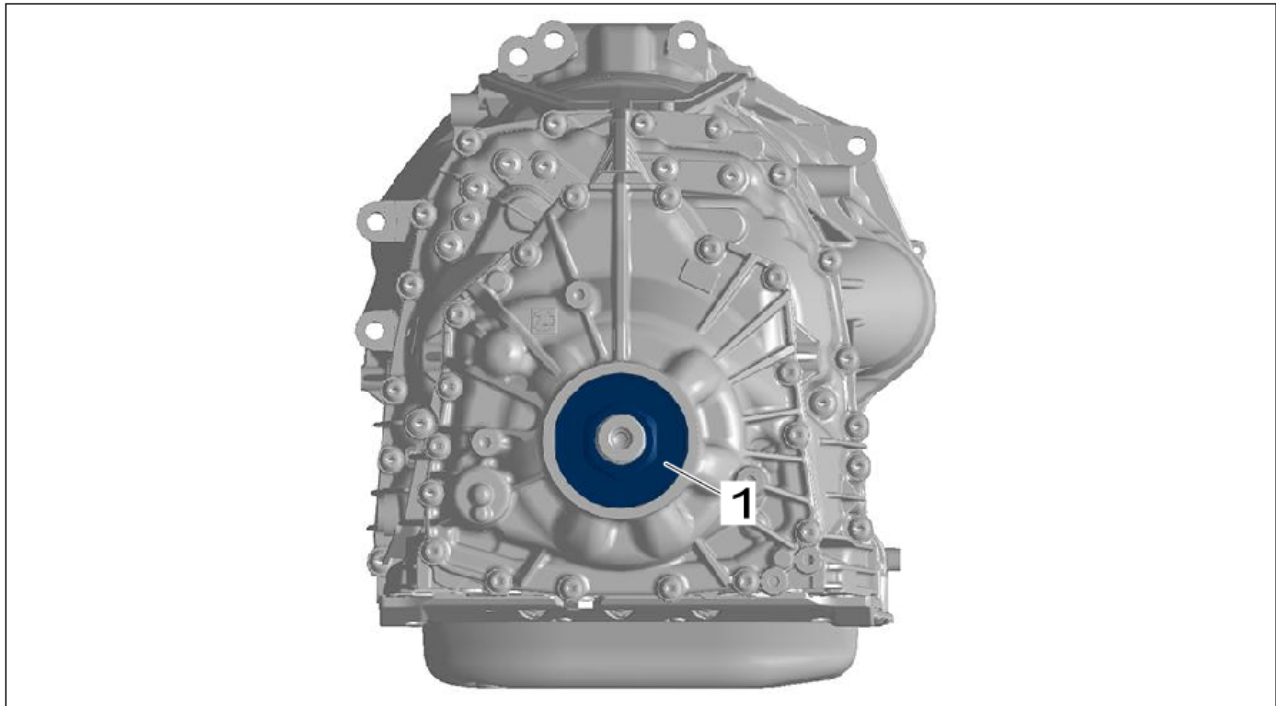


Front side of transmission

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> .
		Clutch cover O-ring 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 on the left	Connector leaking	Replace wire harness in transmission, see ⇒ <i>Technical Information 'Wire harness displaced'</i> .
⇒ Front side of transmission-4-	Central connector on 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
⇒ Rear side of transmission-1-	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 line for ATF cooling (hybrid)'*.

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

Parts: **Required Parts Info:**

Part No.	Designation – Point of use	Number
9A700819800	⇒ O-ring – Line for ATF cooling	2 pieces
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

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

Part No.	Designation – Point of use	Quantity
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 the double clutch transmission	
38624940	Reowrking 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 line for ATF cooling (rear section)'*
 ⇒ *Workshop Manual '386219 Removing and installing line for ATF cooling (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 line for ATF cooling (hybrid)'*.

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

Parts Info:

Required parts:

Part No.	Designation – Point of use	Number
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

Additional parts required (not for PHEV):

Part No.	Designation – Point of use	Number
ODS317760	⇒ Oil pressure line (complete) – ATF cooling	1 piece

Additional parts required (V6 PHEV):

Part No.	Designation – Point of use	Number
ODS317760A	⇒ Oil pressure line (complete) – ATF cooling	1 piece

Additional parts required (V8 PHEV):

Part No.	Designation – Point of use	Number
ODS317760A	⇒ Oil pressure line (complete) – ATF cooling	1 piece
or		
ODS317760B	⇒ Rear oil pressure line (from 25/09/2017) – ATF cooling	1 piece
and		
ODS317760C	⇒ Front oil pressure line (from 25/09/2017) – ATF cooling	1 piece

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

Part No.	Designation – Point of use	Quantity
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

r

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 the 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 line for ATF cooling (rear section)'*
 ⇒ *Workshop Manual '386219 Removing and installing line for ATF cooling (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: **Required parts:**

Part No.	Designation – Point of use	Number
9A700851800	⇒ Shaft seal	1 piece
9A700852600	– Parking lock ⇒ Screw plug – Checking and topping up ATF	1 piece

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

Part No.	Designation – Point of use	Quantity
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 (5.9 ftlb.)**.

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

Parts Info: **Required parts:**

Part No.	Designation – Point of use	Number
9A700852600	⇒ Screw plug – Transmission housing	1 piece
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

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

Part No.	Designation – Point of use	Quantity
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 the 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: **Required parts:**

Part No.	Designation – Point of use	Number
9A730145700	⇒ Shaft seal – Transmission output	1 piece
9A700851900	⇒ Cover ring – Transmission output	1 piece
N 90576501	⇒ O-ring – Connecting shaft	2 pieces
9A700839600	⇒ Hexagon-head bolt – Transmission	5 pieces
N 91153202	⇒ 12-point bolt – Transmission	4 pieces
WHT004955A	⇒ Hex socket head screw – Universal joint	1 piece
N 10714101	⇒ Hexagon flange bolt – Door sill strut	2 pieces
N 91244301	⇒ Hexagon-head bolt with hex socket head – Door sill strut	2 pieces

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

Additional parts required (V6 monoturbo):

Part No.	Designation – Point of use	Number
9A725372510	⇒ Clamp – Primary catalytic converter	1 piece
9A725311507	⇒ Seal – Primary catalytic converter	1 piece
N 10664503	⇒ Hexagon-head bolt – Dome strut	2 pieces
WHT008539	⇒ Hexagon-head bolt with multiple-tooth head – Dome strut	2 pieces
N 10261311	⇒ Hexagon nut – Dome strut	2 pieces
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Dome strut	2 pieces
N 10784702	⇒ Hexagon flange bolt – Power steering gear	2 pieces
PAF104029	⇒ Hexagon collar nut – Power steering gear	2 pieces
9A700499500	⇒ Hexagon nut – Power steering gear	2 pieces
N 91259801	⇒ Round head screw – Anti-roll bar mounting	2 pieces
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mounting	2 pieces
N 10629602	⇒ Hexagon-head bolt – Anti-roll bar mounting	4 pieces
N 91243701	⇒ Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pieces

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

Additional parts required (V6 biturbo):

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

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

Additional parts required (V8 biturbo):

Part No.	Designation – Point of use	Number
N 10628301	⇒ Hexagon-head bolt – Lower trailing arm	2 pieces
PAF104029	⇒ Hexagon collar nut – Lower trailing arm	2 pieces
N 91244301	⇒ Hexagon-head bolt with hex socket head – Front-axle carrier	6 pieces
N 90666003	⇒ O-ring (I-no. OK0, A8F, EOW) – Line for ATF cooling	2 pieces
WHT004571	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	4 pieces
	or	
WHT004572	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	4 pieces

012409413	⇒ Snap ring (I-no. 1X1) – All-wheel final drive input flange	1 piece
95511110830	⇒ Clamp – Catalytic converter	2 pieces
9A725372500	⇒ Clamp – Primary catalytic converter	2 pieces
971253115B	⇒ Seal – Primary catalytic converter	2 pieces

Additional parts required (V8 Diesel):

Part No.	Designation – Point of use	Number
N 90440003	⇒ Hexagon-head bolt – Strut (A-strut)	2 pieces
N 10261311	⇒ Hexagon nut – Strut (A-strut)	2 pieces
PAB253725	⇒ Clamp – Catalytic converter	2 pieces
5Q0253115B	⇒ Seal – Catalytic converter	2 pieces
N 10784702	⇒ Hexagon flange bolt – Power steering gear	2 pieces
PAF104029	⇒ Hexagon collar nut – Power steering gear	2 pieces
9A700499500	⇒ Hexagon nut – Power steering gear	2 pieces
N 91259801	⇒ Round head screw – Anti-roll bar mounting	2 pieces
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mounting	2 pieces
N 10629602	⇒ Hexagon-head bolt – Anti-roll bar mounting	4 pieces
N 91243701	⇒ Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pieces
N 10793603	⇒ Hexagon-head bolt – Anti-roll bar	2 pieces

or

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

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

Part No.	Designation – Point of use	Quantity
00004330586	⇒ Mounting paste – All-wheel final drive input flange	10 g/ 0.35 oz 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 – Point of use	Quantity
00004320593	⇒ Lubricant – Cooling system O-rings	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 the double clutch transmission	
38705550	Replacing front output shaft sealing ring	
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: **Required parts:**

Part No.	Designation – Point of use	Number
9A730720300	⇒ Connecting shaft	1 piece
9A730145700	⇒ Shaft seal	1 piece
	– Transmission output	
9A700851900	⇒ Cover ring	1 piece
	– Transmission output	
9A700839600	⇒ Hexagon-head bolt	5 pieces
	– Transmission	
N 91153202	⇒ 12-point bolt	4 pieces
	– Transmission	
WHT004955A	⇒ Hex socket head screw	1 piece
	– Universal joint	
N 10714101	⇒ Hexagon flange bolt	2 pieces
	– Door sill strut	
N 91244301	⇒ Hexagon-head bolt with hex socket head	2 pieces
	– Door sill strut	
N 91006202	⇒ Hexagon-head bolt	4 pieces
	– Anti-roll bar	

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

Additional parts required (V6 monoturbo):

Part No.	Designation – Point of use	Number
9A725372510	⇒ Clamp – Primary catalytic converter	1 piece
9A725311507	⇒ Seal – Primary catalytic converter	1 piece
N 10664503	⇒ Hexagon-head bolt – Dome strut	2 pieces
WHT008539	⇒ Hexagon-head bolt with multiple-tooth head – Dome strut	2 pieces
N 10261311	⇒ Hexagon nut – Dome strut	2 pieces
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Dome strut	2 pieces
N 10784702	⇒ Hexagon flange bolt – Power steering gear	2 pieces
PAF104029	⇒ Hexagon collar nut – Power steering gear	2 pieces
9A700499500	⇒ Hexagon nut – Power steering gear	2 pieces
N 91259801	⇒ Round head screw – Anti-roll bar mounting	2 pieces
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mounting	2 pieces
N 10629602	⇒ Hexagon-head bolt – Anti-roll bar mounting	4 pieces
N 91243701	⇒ Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pieces
N 10793603	⇒ Hexagon-head bolt – Anti-roll bar	2 pieces

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

Additional parts required (V6 biturbo):

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

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

Additional parts required (V8 biturbo):

Part No.	Designation – Point of use	Number
N 10628301	⇒ Hexagon-head bolt – Lower trailing arm	2 pieces
PAF104029	⇒ Hexagon collar nut – Lower trailing arm	2 pieces
N 91244301	⇒ Hexagon-head bolt with hex socket head – Front-axle carrier	6 pieces
N 90666003	⇒ O-ring (I-no. OK0, A8F, EOW) – Line for ATF cooling	2 pieces
WHT004571	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	4 pieces
or		
WHT004572	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	4 pieces
012409413	⇒ Snap ring (I-no. 1X1) – All-wheel final drive input flange	1 piece

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

Additional parts required (V8 Diesel):

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

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

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

Part No.	Designation – Point of use	Quantity
00004330586	⇒ Mounting paste – All-wheel final drive input flange	10 g/ 0.35 oz 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 – Point of use	Quantity
00004320593	⇒ Lubricant – Cooling system O-rings	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 the double clutch transmission	
38705550	Replacing front output shaft sealing ring	
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: **Required parts:**

Part No.	Designation – Point of use	Number
9A732107300	⇒ Locking cap – Transmission output	1 piece
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

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

Part No.	Designation – Point of use	Quantity
00004321044	⇒ Transmission oil – Checking and topping up ATF	20-liter/ 5.28 gal 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 the 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: **Required Parts Info:**

Part No.	Designation – Point of use	Number
9A700839600	⇒ Hexagon-head bolt – Transmission	5 pieces
N 91153202	⇒ 12-point bolt – Transmission	4 pieces
WHT004955A	⇒ Hex socket head screw – Universal joint	1 piece
N 10714101	⇒ Hexagon flange bolt – Door sill strut	2 pieces
N 91244301	⇒ Hexagon-head bolt with hex socket head – Door sill strut	2 pieces
N 91006202	⇒ Hexagon-head bolt – Anti-roll bar	4 pieces
N 10628301	⇒ Hexagon-head bolt – Lower trailing arm	2 pieces
PAF104029	⇒ Hexagon collar nut – Lower trailing arm	2 pieces
N 91244301	⇒ Hexagon-head bolt with hex socket head – Front-axle carrier	6 pieces
N 90666003	⇒ O-ring (I-no. OK0, A8F, E0W) – Line for ATF cooling	2 pieces

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

Additional parts required (V6 monoturbo):

Part No.	Designation – Point of use	Number
95511110830	⇒ Clamp – Catalytic converter	2 pieces
9A725372510	⇒ Clamp – Primary catalytic converter	1 piece
9A725311507	⇒ Seal – Primary catalytic converter	1 piece

Additional parts required (V6 and V8 biturbo):

Part No.	Designation – Point of use	Number
9A700863500 ¹⁾	⇒ Internal hexagon round-head bolt – Electric machine	14 pieces
9A7301131 ¹⁾	⇒ Seal for transmission cover – Electric machine	1 piece

N 90440003 ¹⁾	⇒ Hexagon-head bolt – Strut (A-strut)	2 pieces
N 10261311 ¹⁾	⇒ Hexagon nut – Strut (A-strut)	2 pieces
N 10750001 ²⁾	⇒ Internal hexagon round-head countersunk screw – Transmission heat shield	4 pieces
95511110830	⇒ Clamp – Catalytic converter	2 pieces
9A725372500	⇒ Clamp – Primary catalytic converter	2 pieces
971253115B	⇒ Seal – Primary catalytic converter	2 pieces

¹⁾ Only for hybrid vehicles

²⁾ Not for hybrid vehicles

Additional parts required (V8 Diesel):

Part No.	Designation – Point of use	Number
N 10750001	⇒ Internal hexagon round-head countersunk screw – Transmission heat shield	4 pieces
N 10664503	⇒ Hexagon-head bolt – Dome strut	2 pieces
95557374902	⇒ Round seal – Air-conditioning line in engine compartment	1 piece
N 91157202	⇒ Collared cheese head bolt with multiple-tooth head – Reinforcement for front lock carrier	2 pieces
9A791194602	⇒ Cheese head bolt – Reinforcement for front lock carrier	7 pieces
PAB253725	⇒ Clamp – Catalytic converter	2 pieces
5Q0253115B	⇒ Seal – Catalytic converter	2 pieces
04L253115	⇒ Seal – Reducing agent injection valve	1 piece

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

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

Part No.	Designation – Point of use	Quantity
00004330586	⇒ Assembly paste (I-no. 1X1) – All-wheel final drive input flange	10 g/ 0.35 oz tube ¹⁾
00004320593	⇒ Lubricant – Cooling system O-rings	100 g/ 3.52 oz 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 the double clutch transmission	
37344901	Reworking lower left screw plug	
37344904	Reworking upper left screw plug	
37374990	Reworking front transmission housing screw connection	
37374991	Reworking rear transmission housing screw connection	
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 leaking

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: **Required parts:**

Part No.	Designation – Point of use	Number
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

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

Part No.	Designation – Point of use	Quantity
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 the 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'*

Replacing ATF

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

Parts Info:

Required parts:

Part No.	Designation – Point of use	Number
PAF008973	⇒ Screw plug with sealing ring – ATF pan	1 piece
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

Materials:

Required materials (usually already available in the Porsche Center):

Part No.	Designation – Point of use	Quantity
00004321044	⇒ Transmission oil – Replacing ATF	20-liter/ 5.28 gal container ¹⁾

¹⁾ approx. 6 liter/ 1.58 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 the double clutch transmission	
37554990	Reworking oil drain plug	
37554991	Replacing ATF pan	
37025550	Replacing 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 Replacing 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: **Required parts:**

Part No.	Designation – Point of use	Number
9A732121100	⇒ Bleed tube – Upper transmission side	1 piece
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

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

Part No.	Designation – Point of use	Quantity
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: **Required parts:**

Part No.	Designation – Point of use	Number
9A731716500	⇒ Transmission oil pan (ATF pan)	1 piece
9A731707000	⇒ Seal – ATF pan	1 piece
9A700855200	⇒ Round head screw – ATF pan	13 pieces

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

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

Part No.	Designation – Point of use	Quantity
00004321044	⇒ Transmission oil – Replacing ATF	20-liter/ 5.28 gal container ¹⁾

¹⁾approx. 6 liter/ 1.58 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 the 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 riser and tighten to **Tightening torque 27 Nm (19.9 ftlb.)**.
 - 3 Replace oil inspection plug, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Required parts:**

Part No.	Designation – Point of use	Number
9A732147500	⇒ Oil pipe (to production number 00006999) – Checking and topping up ATF or	1 piece

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

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

Part No.	Designation – Point of use	Quantity
00004321044	⇒ Transmission oil – Replacing ATF	20-liter/ 5.28 gal container ¹⁾

¹⁾ approx. 6 liter/ 1.58 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 the double clutch transmission	
37554992	Reworking riser pipe and oil regulator screw	

PQIS coding:

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

References: ⇒ *Workshop Manual '370255 Replacing 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: **Required parts:**

Part No.	Designation – Point of use	Number
9A714242600	⇒ Shaft seal – Clutch cover	1 piece
9A700839600	⇒ Hexagon-head bolt – Transmission	5 pieces
N 91153202	⇒ 12-point bolt – Transmission	4 pieces
WHT004955A	⇒ Hex socket head screw – Universal joint	1 piece
N 10714101	⇒ Hexagon flange bolt – Door sill strut	2 pieces
N 91244301	⇒ Hexagon-head bolt with hex socket head – Door sill strut	2 pieces
N 91006202	⇒ Hexagon-head bolt – Anti-roll bar	4 pieces
9A700489400	⇒ O-ring – Rear cardan shaft	1 piece
9A752572202	⇒ Circlip – Rear cardan shaft	1 piece
WHT005156	⇒ O-ring – Rear cardan shaft	1 piece
9A750730100	⇒ Circlip – Rear cardan shaft	1 piece
99904903240	⇒ Hexagon-head plastic collar nut – Rear underbody cover	4 pieces
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

Additional parts required (V6 monoturbo):

Part No.	Designation – Point of use	Number
9A725372510	⇒ Clamp – Primary catalytic converter	1 piece
9A725311507	⇒ Seal – Primary catalytic converter	1 piece
N 10664503	⇒ Hexagon-head bolt – Dome strut	2 pieces
WHT008539	⇒ Hexagon-head bolt with multiple-tooth head – Dome strut	2 pieces
N 10261311	⇒ Hexagon nut – Dome strut	2 pieces

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

Additional parts required (V6 biturbo):

Part No.	Designation – Point of use	Number
9A725372500	⇒ Clamp – Primary catalytic converter	2 pieces
971253115B	⇒ Seal – Primary catalytic converter	2 pieces

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

Additional parts required (V8 biturbo):

Part No.	Designation – Point of use	Number
N 10628301	⇒ Hexagon-head bolt – Lower trailing arm	2 pieces
PAF104029	⇒ Hexagon collar nut – Lower trailing arm	2 pieces
N 91244301	⇒ Hexagon-head bolt with hex socket head – Front-axle carrier	6 pieces
N 90666003	⇒ O-ring (I-no. OK0, A8F, EOW) – Line for ATF cooling	2 pieces
WHT004571	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	4 pieces
or		
WHT004572	⇒ Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	4 pieces
012409413	⇒ Snap ring (I-no. 1X1) – All-wheel final drive input flange	1 piece
95511110830	⇒ Clamp – Catalytic converter	2 pieces
9A725372500	⇒ Clamp – Primary catalytic converter	2 pieces
971253115B	⇒ Seal – Primary catalytic converter	2 pieces

Additional parts required (V8 Diesel):

Part No.	Designation – Point of use	Number
N 90440003	⇒ Hexagon-head bolt – Strut (A-strut)	2 pieces
N 10261311	⇒ Hexagon nut – Strut (A-strut)	2 pieces
PAB253725	⇒ Clamp – Catalytic converter	2 pieces
5Q0253115B	⇒ Seal – Catalytic converter	2 pieces

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

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

Part No.	Designation – Point of use	Quantity
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 – Point of use	Quantity
00004330586	⇒ Assembly paste (I-no. 1X1) – All-wheel final drive input flange	10 g/ 0.35 oz tube ¹⁾
00004320593	⇒ Lubricant – Cooling system O-rings	100 g/ 3.52 oz 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 the 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 leaking

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 wire harness in transmission'*.

Parts Info: **Required parts:**

Part No.	Designation - Point of use	Number
9A790799800	⇒ Wire harness - Hydraulic control unit	1 piece
	or	
9A790799801	⇒ Wiring harness (standard Panamera) - Hydraulic control unit	1 piece
9A731710000	⇒ Sealing ring - ATF filter	1 piece
9A731707000	⇒ Seal - ATF pan	1 piece
9A700855200	⇒ Round head screw - ATF pan	13 pieces
PAF008973	⇒ Screw plug with sealing ring - ATF pan	1 piece
9A700852600	⇒ Screw plug - Checking and topping up ATF	1 piece

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

Part No.	Designation - Point of use	Quantity
00004321044	⇒ Transmission oil - Replacing ATF	20-liter/ 5.28 gal container ¹⁾

¹⁾ approx. 6 liter/ 1.58 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 the double clutch transmission	
38181950	Removing and installing transmission wire harness	

PQIS coding:

Location (FES5)	38180	Transmission line
Damage type (SA4)	5000	leakage

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

Replace 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:

Required parts:

Part No.	Designation – Point of use	Number
9A730122710	⇒ Shaft seal – Cardan flange	1 piece
9A730122710	⇒ Dust boot – Cardan flange	1 piece
9A730715800	⇒ Circlip – Cardan flange	1 piece
9A700489400	⇒ O-ring – Rear cardan shaft	1 piece
9A752572202	⇒ Circlip – Rear cardan shaft	1 piece
WHT005156	⇒ O-ring – Rear cardan shaft	1 piece
9A750730100	⇒ Circlip – Rear cardan shaft	1 piece
99904903240	⇒ Hexagon-head plastic collar nut – Rear underbody cover	4 pieces
9A700852600	⇒ Screw plug – Checking and topping up ATF	1 piece

Additional parts required (V6 monoturbo):

Part No.	Designation – Point of use	Number
95511110830	⇒ Clamp – Catalytic converter	1 piece

Additional parts required (V6 and V8 biturbo):

Part No.	Designation – Point of use	Number
95511110830	⇒ Clamp – Catalytic converter	2 pieces

Additional parts required (V8 Diesel):

Part No.	Designation - Point of use	Number
9A725313940	⇒ Clamp - Particle filter	1 piece

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

Part No.	Designation - Point of use	Quantity
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: Work is invoiced under the labor operation:

APOS	Labor operation	I No.
37340140	Checking the double clutch transmission	
39825500	Replace 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 Replace cardan flange sealing ring'*

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

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.

© 2024 Porsche Cars North America, Inc.