

Technical Information

Service 163/20 ENU 3734

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	 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 \Rightarrow Technical Information 'Leaks on left side of transmission'
- Leaks on right side of transmission \Rightarrow Technical Information 'Leaks on right side of transmission'
- Leaks on upper side of transmission \Rightarrow Technical Information 'Leaks on upper side of transmission' ٠
- Leaks on lower side of transmission \Rightarrow Technical Information 'Leaks on lower side of transmission'
- Leaks on front side of transmission \Rightarrow Technical Information 'Leaks on front side of transmission'
- Leaks on rear side of transmission \Rightarrow Technical Information 'Leaks on rear side of transmission'

Preparatory work

Work Procedure:



- 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.



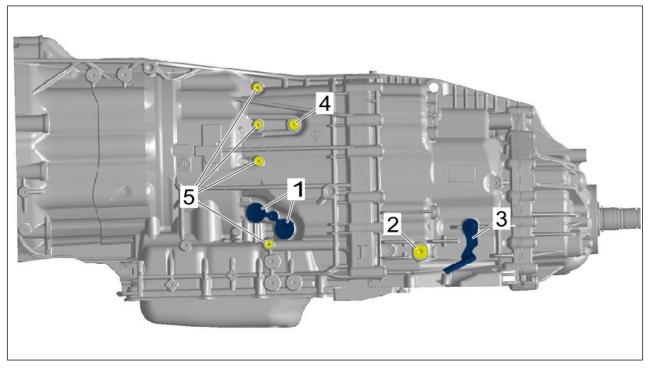
Information

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.

- Spray large areas of the transmission with SpotCheck around the suspected leakage points. 4
- 5 Test drive.
- Check the transmission for leaks and find the leak. 6
- Produce photo documentation of the leakage point located using SpotCheck. 7
- Attach documentation to PQIS line. 8

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Leaks on left side of transmission



Left side of transmission

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

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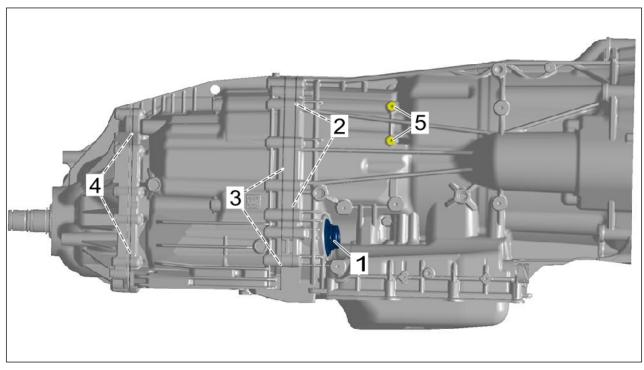
		Line corroded or crimping damaged:	
		<image/> <caption></caption>	Replace ATF cooling line, see \Rightarrow Technical Information 'Replacing ATF cooling line'.
		ATF cooling line - crimping damaged	
		Screw loose	Check that it is installed securely.
⇒ Left side of trans- mission -2-	Screw plug	Sealing ring damaged	Replace double clutch transmission, see ⇒ Technical Information 'Replacing double clutch transmission'.
⇒Left side of trans- mission- 3 -	Parking lock	Sealing ring damaged	Replace sealing ring for parking lock, see <i>⇒ Technical</i> Information 'Replacing sealing ring for parking lock'.

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		Screw loose Check that it is installed securely.	
⇒ Left side of trans- mission - 4 -	Screw plug	Sealing ring damaged	Replace double clutch transmission, see ⇒ <i>Technical Information</i> 'Replacing double clutch transmission'.
		Screw loose	Check that it is installed
⇒ Left side of trans- mission -5-	Screw plug	Sealing ring damaged	securely. Replace screw plug if necessary, see <i>⇒ Technical</i> <i>Information</i> ' <i>Replacing</i> <i>screw plug</i> '.

Leaks on right side of transmission



Right side of transmission

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

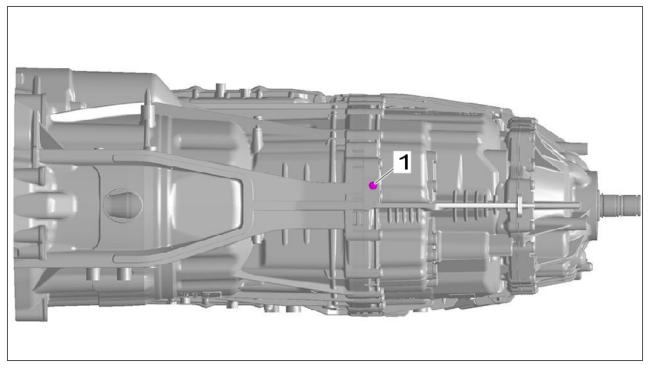
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Diaht		Screw loose	Check that it is installed securely.
⇒ Right side of trans- mission -2 -	Transmission housing	Seal damaged	Replace double clutch transmission, see ⇒ Technical Information 'Replacing double clutch transmission'.
Diabt		Screw loose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

Leaks on upper side of transmission



Upper side of transmission

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

Leaks on lower side of transmission



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.



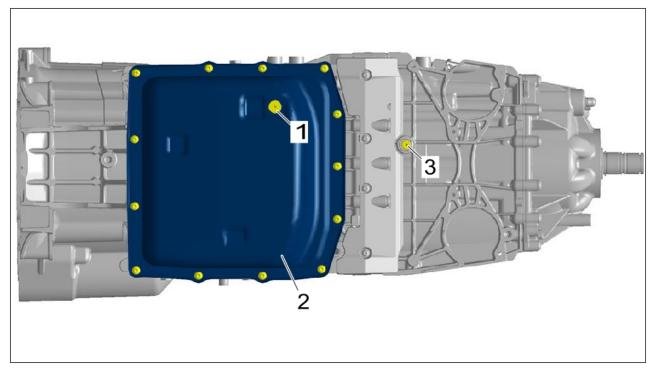
Information

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

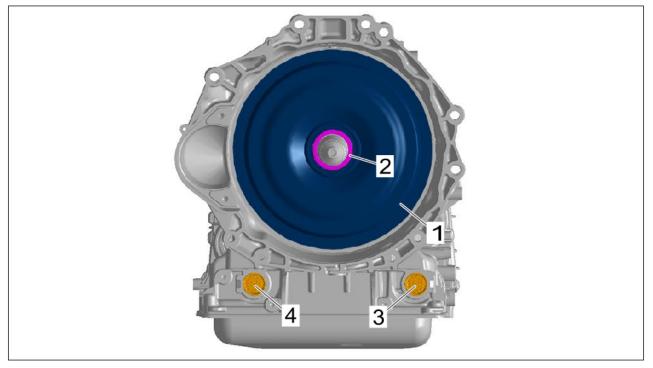


Lower side of transmission

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

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Leaks on front side of transmission

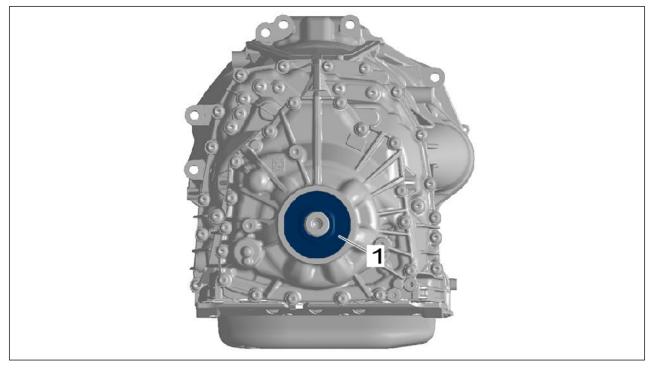


Front side of transmission

Position	Oil leak	Cause	Repair measure
		Apparent assembly grease No a	No action required.
⇒ Front		Grease leak on dual-mass flywheel	Check dual-mass flywheel, see ⇒ Technical Information 'Checking dual-mass flywheel (DMF) on vehicles with PDK (11/14)'.
side of trans-	<i>trans-</i> clutch cover	Engine leaking	Find oil leaks and fix them.
mission-1-		Radial shaft seal on clutch cover damaged	Replace radial shaft seal, see ⇒ Technical Information 'Replacing radial shaft seal'.
		Clutch cover O-ring damaged	Replace double clutch transmission, see <i>⇒ Technical Information 'Replacing</i> double clutch transmission'.
⇒ Front side of trans- mission- 2 -	Clutch cover	Radial shaft seal on clutch cover damaged	Replace radial shaft seal, see ⇒ Technical Information 'Replacing radial shaft seal'.

⇒ Front side of trans- mission -3-	Central connector on the left	Connector leaking	Replace wire harness in transmission, see ⇒ Technical Information 'Wire harness displaced'.
⇒ Front side of trans- mission- 4 -	Central connector on the right	Connector leaking	Replace double clutch transmission, see ⇒ Technical Information 'Replacing double clutch transmission'.

Leaks on rear side of transmission



Rear side of transmission

Position	Oil leak	Cause	Repair measure
⇒ Rear side of trans- mission -1-	Rear-axle shaft	Shaft sealing ring damaged	Replace sealing ring on cardan flange, see <i>⇒ Technical Information 'Replacing</i> <i>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 A	TF; see \Rightarrow Workshop Manual '370235 Checking and top	pping up ATF'.	
Parts:	Re	quired Parts Info:			
	Ра	art No.	Designation – Point of use	Number	
	9/	4700819800	\Rightarrow O-ring – Line for ATF cooling	2 pieces	
	9/	4700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 piece	
Materials:	Re	quired materials (u	sually already available in the Porsche Center):		
	Ра	art No.	Designation – Point of use	Quantity	
	00	0004321044	\Rightarrow Transmission oil – Checking and topping up ATF	20-liter/ 5.28 gal container ¹⁾	
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)'

 \Rightarrow 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				
		-	al '386219 Removing and installing ATF cooling line (real al '386219 Removing and installing line for ATF cooling (i			
	2	Check and top up A	TF; see \Rightarrow Workshop Manual '370235 Checking and top	ping up ATF'.		
Parts Info: Re		quired parts:				
	Pa	art No.	Designation – Point of use	Number		
	9A	700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 piece		
	Ado	ditional parts requi	red (not for PHEV):			
	Pa	art No.	Designation – Point of use	Number		
	00	DS317760	\Rightarrow Oil pressure line (complete) – ATF cooling	1 piece		
	Additional parts rec		red (V6 PHEV):			
	Pa	art No.	Designation – Point of use	Number		
	00	DS317760A	\Rightarrow Oil pressure line (complete) – ATF cooling	1 piece		
	Ado	ditional parts requi	red (V8 PHEV):			
	Pa	art No.	Designation – Point of use	Number		
	0[DS317760A	\Rightarrow Oil pressure line (complete) – ATF cooling	1 piece		
			or			
	0[DS317760B	\Rightarrow Rear oil pressure line (from 25/09/2017) – ATF cooling	1 piece		
			and			
	O	DS317760C	\Rightarrow Front oil pressure line (from 25/09/2017) – ATF cooling	1 piece		

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Materials:	Required materia	Is (usually already available in the Porsche (Center):		
	Part No.	Designation – Point of use	Quar	ntity	
	00004321044	\Rightarrow Transmission oil – Checking and topping up ATF		er/ 5.28 ga liner ¹⁾	I

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	
38621900	Removing and installing front ATF cooling line	
38621951	Removing and installing rear ATF cooling line	
37023550	Checking and topping up ATF	

PQIS coding:

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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)'

 \Rightarrow Workshop Manual '386219 Removing and installing line for ATF cooling (hybrid)'

 \Rightarrow Workshop Manual '370235 Checking and topping up ATF'

Replacing sealing ring for parking lock

Work Procedure: 1 Replace sealing ring for parking lock.

> Check and top up ATF; see \Rightarrow Workshop Manual '370235 Checking and topping up ATF'. 2

Parts Info:	Required parts:		
	Part No.	Designation – Point of use	Number
	9A700851800	⇒ Shaft seal – Parking lock	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	\Rightarrow 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: \Rightarrow 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 \Rightarrow Workshop Manual '370235 Checking and topping up ATF'.

Parts Info:	Required parts:			
	Part No.	Designation – Point of use	Number	
	9A700852600	\Rightarrow Screw plug – Transmission housing	1 piece	
	9A700852600	\Rightarrow 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	\Rightarrow Transmission oil – Checking and topping up ATF	20-liter/ 5.28 gal container ¹⁾	
	¹⁾ approx. 0.1 liter/ 3	3.38 fl oz required per vehicle		
Invoicing:		nd warranty invoicing, enter the labor operations, F elow in the warranty claim:	PQIS coding and relevant part	

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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: \Rightarrow 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 \Rightarrow Workshop Manual '387055 Replacing sealing ring for front output shaft'.

2 Check and top up ATF; see \Rightarrow 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	\Rightarrow 0-ring – Connecting shaft	2 pieces
9A700839600	\Rightarrow Hexagon-head bolt – Transmission	5 pieces
N 91153202	\Rightarrow 12-point bolt – Transmission	4 pieces
WHT004955A	⇒ Hex socket head screw – Universal joint	1 piece
N 10714101	\Rightarrow Hexagon flange bolt – Door sill strut	2 pieces
N 91244301	\Rightarrow Hexagon-head bolt with hex socket head – Door sill strut	2 pieces

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N 91006202	⇒ Hexagon-head bolt – Anti-roll bar	4 pieces
9A700489400	\Rightarrow O-ring \Rightarrow Rear cardan shaft	1 piece
9A752572202	\Rightarrow Circlip \Rightarrow Cardan shaft = Rear cardan shaft	1 piece
WHT005156	\Rightarrow O-ring = Rear cardan shaft	1 piece
9A750730100	⇒ Circlip	1 piece
99904903240	 Rear cardan shaft ⇒ Hexagon-head plastic collar nut Rear underbody cover 	4 pieces
9A700852600	\Rightarrow 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	\Rightarrow Seal	1 piece
N 10664503	 Primary catalytic converter ⇒ 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	\Rightarrow 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	\Rightarrow Hexagon collar nut – Anti-roll bar mounting	2 pieces
N 10629602	\Rightarrow Hexagon-head bolt	4 pieces
N 91243701	 Anti-roll bar mounting ⇒ Hexagon-head bolt with hex socket head Anti-roll bar mounting 	3 pieces

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N 10793603	⇒ Hexagon-head bolt – Anti-roll bar or	2 pieces	
N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 pieces	
9A700819800	\Rightarrow 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 requ	ired (V6 biturbo):		
Part No.	Designation – Point of use	Number	
9A725372500	\Rightarrow Clamp – Primary catalytic converter	2 pieces	
971253115B	\Rightarrow Seal – Primary catalytic converter	2 pieces	
N 10664503	⇒ Hexagon-head bolt – Dome strut	2 pieces	
WHT008539	\Rightarrow Hexagon-head bolt with multiple-tooth head – Dome strut	2 pieces	
N 10261311	\Rightarrow Hexagon nut – Dome strut	2 pieces	
N 91157202	\Rightarrow Collared cheese head bolt with multiple-tooth – Dome strut	h head 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	\Rightarrow Round head screw – Anti-roll bar mounting	2 pieces	
N 10609207	\Rightarrow Hexagon collar nut – Anti-roll bar mounting	2 pieces	

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N 10629602	\Rightarrow Hexagon-head bolt – Anti-roll bar mounting	4 pieces
N 91243701	\Rightarrow Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pieces
N 10793603	\Rightarrow Hexagon-head bolt – Anti-roll bar	2 pieces
	or	
N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 pieces
9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 pieces
N 91130801	\Rightarrow 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	\Rightarrow Hexagon-head bolt with hex socket head – Front-axle carrier	6 pieces
N 90666003	⇒ O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 pieces
WHT004571	\Rightarrow Collared cheese head bolt with multiple-tooth head (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	4 pieces
	or	
WHT004572	\Rightarrow Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	4 pieces

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012409413	\Rightarrow Snap ring (l-no. 1X1) – All-wheel final drive input flange	1 piece
95511110830	\Rightarrow Clamp – Catalytic converter	2 pieces
9A725372500	\Rightarrow Clamp – Primary catalytic converter	2 pieces
971253115B	\Rightarrow Seal – Primary catalytic converter	2 pieces
Additional parts requ	ired (V8 Diesel):	
Part No.	Designation – Point of use	Number
N 90440003	\Rightarrow Hexagon-head bolt – Strut (A-strut)	2 pieces
N 10261311	\Rightarrow Hexagon nut – Strut (A-strut)	2 pieces
PAB253725	\Rightarrow Clamp – Catalytic converter	2 pieces
5Q0253115B	\Rightarrow Seal – Catalytic converter	2 pieces
N 10784702	\Rightarrow 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	\Rightarrow Hexagon collar nut – Anti-roll bar mounting	2 pieces
N 10629602	\Rightarrow Hexagon-head bolt – Anti-roll bar mounting	4 pieces
N 91243701	\Rightarrow Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pieces
N 10793603	\Rightarrow Hexagon-head bolt – Anti-roll bar	2 pieces
	or	

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	N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 pieces
	9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 pieces
	9A725311531	\Rightarrow Seal – Particle filter	1 piece
	9A725372521	\Rightarrow Clamp – Particle filter	1 piece
	04L253115	\Rightarrow Seal – Reducing agent injection valve	1 piece
	95811162510	\Rightarrow Clamp – Reducing agent injection valve	1 piece
	9A725313940	\Rightarrow Clamp – Particle filter	1 piece
Materials:	Required materials	s (usually already available in the Porsche	Center):
	Part No.	Designation – Point of use	Quantity
	00004330586	\Rightarrow Mounting paste	10 g/ 0.35 oz tube ¹⁾
00004321044	 All-wheel final drive input flange ⇒ Transmission oil Checking and topping up ATF 	20-liter/ 5.28 gal container ²⁾	
		0.07 oz required per vehicle 3.38 fl oz required per vehicle	
	Additional materia	ls required (V8 biturbo):	
	Part No.	Designation – Point of use	Quantity
	00004320593	→ Lubricant → Cooling system 0-rings	100g tube ¹⁾
	00004330516	\Rightarrow Coolant additive	20-liter/ 5.28 gal container ²⁾
		/ 0.35 oz required per vehicle 16.9 fl oz required per vehicle	
Invoicing:		nd warranty invoicing, enter the labor ope elow in the warranty claim:	rations, PQIS coding and relevant part

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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: \Rightarrow Workshop Manual '387055 Replacing sealing ring for front output shaft' \Rightarrow Workshop Manual '370235 Checking and topping up ATF'

Replacing connecting shaft

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

Parts Info: Required parts:

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

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\Rightarrow 0-ring	1 piece
– Rear cardan shaft \Rightarrow Circlip	1 piece
– Rear cardan shaft	1
⇒ 0-ring – Rear cardan shaft	1 piece
\Rightarrow Circlip	1 piece
\Rightarrow Hexagon-head plastic collar nut	4 pieces
\Rightarrow Screw plug	1 piece
	 Rear cardan shaft ⇒ Circlip Rear cardan shaft ⇒ O-ring Rear cardan shaft ⇒ Circlip Rear cardan shaft ⇒ Hexagon-head plastic collar nut Rear underbody cover

Additional parts required (V6 monoturbo):

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

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N 10702302	or ⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 pieces	
9A700819800	\Rightarrow 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 requ	ired (V6 biturbo):		
Part No.	Designation – Point of use	Number	
9A725372500	\Rightarrow Clamp – Primary catalytic converter	2 pieces	
971253115B	\Rightarrow Seal – Primary catalytic converter	2 pieces	
N 10664503	⇒ Hexagon-head bolt – Dome strut	2 pieces	
WHT008539	\Rightarrow Hexagon-head bolt with multiple-tooth head – Dome strut	2 pieces	
N 10261311	⇒ Hexagon nut – Dome strut	2 pieces	
N 91157202	\Rightarrow Collared cheese head bolt with multiple-toot – Dome strut	h head 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	\Rightarrow Hexagon collar nut – Anti-roll bar mounting	2 pieces	
N 10629602	\Rightarrow Hexagon-head bolt – Anti-roll bar mounting	4 pieces	

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N 91243701	\Rightarrow Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pieces
N 10793603	\Rightarrow Hexagon-head bolt – Anti-roll bar	2 pieces
	or	
N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 pieces
9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 pieces
N 91130801	\Rightarrow 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	\Rightarrow Hexagon-head bolt with hex socket head – Front-axle carrier	6 pieces
N 90666003	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 pieces
WHT004571	\Rightarrow 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	\Rightarrow Snap ring (I-no. 1X1) – All-wheel final drive input flange	1 piece

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95511110830	\Rightarrow Clamp – Catalytic converter	2 pie	ces	
9A725372500	\Rightarrow Clamp – Primary catalytic converter	2 pie	ces	
971253115B	⇒ Seal – Primary catalytic converter	2 pie	ces	
Additional parts requ	ired (V8 Diesel):			
Part No.	Designation – Point of use	Num	lber	
N 90440003	⇒ Hexagon-head bolt – Strut (A-strut)	2 pie	ces	
N 10261311	⇒ Hexagon nut – Strut (A-strut)	2 pie	ces	
PAB253725	⇒ Clamp – Catalytic converter	2 pie	ces	
5Q0253115B	\Rightarrow Seal – Catalytic converter	2 pie	ces	
N 10784702	⇒ Hexagon flange bolt – Power steering gear	2 pie	ces	
PAF104029	⇒ Hexagon collar nut – Power steering gear	2 pie	ces	
9A700499500	⇒ Hexagon nut – Power steering gear	2 pie	ces	
N 91259801	\Rightarrow Round head screw – Anti-roll bar mounting	2 pie	ces	
N 10609207	\Rightarrow Hexagon collar nut – Anti-roll bar mounting	2 pie	ces	
N 10629602	\Rightarrow Hexagon-head bolt – Anti-roll bar mounting	4 pie	ces	
N 91243701	\Rightarrow Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pie	ces	
N 10793603	\Rightarrow Hexagon-head bolt – Anti-roll bar	2 pie	ces	
	or			
N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 pie	ces	

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	9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 pieces
	9A725311531	\Rightarrow Seal – Particle filter	1 piece
	9A725372521	\Rightarrow Clamp – Particle filter	1 piece
	04L253115	\Rightarrow Seal – Reducing agent injection valve	1 piece
	95811162510	\Rightarrow Clamp – Reducing agent injection valve	1 piece
	9A725313940	\Rightarrow Clamp – Particle filter	1 piece
Materials:	Required materials	(usually already available in the Porsche (Center):
	Part No.	Designation – Point of use	Quantity
	00004330586	\Rightarrow Mounting paste – All-wheel final drive input flange	10 g/ 0.35 oz tube ¹⁾
	00004321044	\Rightarrow Transmission oil – Checking and topping up ATF	20-liter/ 5.28 gal container ²⁾
		0.07 oz required per vehicle .38 fl oz required per vehicle	
	Additional material	s required (V8 biturbo):	
	Part No.	Designation – Point of use	Quantity
	00004320593	\Rightarrow Lubricant – Cooling system O-rings	100g tube ¹⁾
	00004330516	\Rightarrow Coolant additive	20-liter / 5.28 gal container ²⁾
		0.35 oz required per vehicle 6.9 fl oz required per vehicle	
Invoicing:		nd warranty invoicing, enter the labor oper slow in the warranty claim:	rations, PQIS coding and relevant part

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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: \Rightarrow Workshop Manual '387055 Replacing sealing ring for front output shaft' \Rightarrow 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 \Rightarrow Workshop Manual '370235 Checking and topping up ATF'.

Parts Info: **Required parts:**

Part No.	Designation – Point of use	Number
9A732107300	\Rightarrow Locking cap – Transmission output	1 piece
9A700852600	\Rightarrow 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	\Rightarrow 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: \Rightarrow Workshop Manual '370235 Checking and topping up ATF'

Replacing double-clutch transmission

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

Parts: **Required** Parts Info:

Part	No.	Designation – Point of use	Number
9A70	0839600	\Rightarrow Hexagon-head bolt – Transmission	5 pieces
N 91	153202	\Rightarrow 12-point bolt – Transmission	4 pieces
WHT	004955A	⇒ Hex socket head screw – Universal joint	1 piece
N 1C	0714101	\Rightarrow Hexagon flange bolt – Door sill strut	2 pieces
N 91	244301	\Rightarrow Hexagon-head bolt with hex socket head – Door sill strut	2 pieces
N 91	006202	\Rightarrow Hexagon-head bolt – Anti-roll bar	4 pieces
N 10	628301	\Rightarrow Hexagon-head bolt – Lower trailing arm	2 pieces
PAF1	04029	\Rightarrow Hexagon collar nut – Lower trailing arm	2 pieces
N 91	244301	\Rightarrow Hexagon-head bolt with hex socket head – Front-axle carrier	6 pieces
N 90	0666003	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 pieces

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WHT004571	⇒ Collared cheese head bolt with mu (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	ultiple-tooth head 4 pieces	
WHT004572	or ⇒ Collared cheese head bolt with mu (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	ultiple-tooth head 4 pieces	
012409413	\Rightarrow Snap ring (I-no. 1X1) - All-wheel final drive input flange	1 piece	
9A700489400		1 piece	
9A752572202		1 piece	
WHT005156	⇒ O-ring – Rear cardan shaft	1 piece	
9A750730100	$0 \qquad \Rightarrow Circlip \\ - Rear cardan shaft$	1 piece	
99904903240	0 ⇒ Hexagon-head plastic collar nut – Rear underbody cover	4 pieces	
9A700852600	$ \Rightarrow \text{Screw plug} $ - Checking and topping up ATF	1 piece	
Additional pa	rts required (V6 monoturbo):		
Part No.	Designation – Point of use	Number	
9551111083	$\begin{array}{ll} 30 & \Rightarrow Clamp \\ & - Catalytic converter \end{array}$	2 pieces	
9A72537251	10 \Rightarrow Clamp – Primary catalytic converter	1 piece	
9A72531150	 D7 ⇒ Seal – Primary catalytic converter 	1 piece	
Additional pa	rts required (V6 and V8 biturbo):		
Part No.	Designation – Point of use	Number	
9A70086350	 ⇒ Internal hexagon round-head bol – Electric machine 	t 14 pieces	
9A7301131 ¹		1 piece	

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N 90440003 ¹⁾	⇒ Hexagon-head bolt – Strut (A-strut)	2 pieces
N 10261311 ¹⁾	⇒ Hexagon nut – Strut (A-strut)	2 pieces
N 10750001 ²⁾	\Rightarrow Internal hexagon round-head countersunk screw – Transmission heat shield	4 pieces
95511110830	⇒ Clamp – Catalytic converter	2 pieces
9A725372500	\Rightarrow 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	\Rightarrow Internal hexagon round-head countersunk screw – Transmission heat shield	4 pieces
N 10664503	\Rightarrow Hexagon-head bolt – Dome strut	2 pieces
95557374902	\Rightarrow Round seal – Air-conditioning line in engine compartment	1 piece
N 91157202	\Rightarrow Collared cheese head bolt with multiple-tooth head – Reinforcement for front lock carrier	2 pieces
9A791194602	\Rightarrow 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

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	95811162510	\Rightarrow 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	\Rightarrow Assembly paste (l-no. 1X1) – All-wheel final drive input flange	10 g/ 0.35 oz tube ¹		
	00004320593	\Rightarrow Lubricant – Cooling system O-rings	100 g/ 3.52 oz tube ²		
	00004330516	\Rightarrow Coolant additive	20-liter/ 5.28 gal container ³⁾		
	00004321044	\Rightarrow Transmission oil – Checking and topping up ATF	20-liter / 5.28 gal container ⁴⁾		
		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 (FE	Location (FES5)		Double clutch	
Damage type (SA4)		5041	Oil/grease leaking	
References:	⇒ Workshop Manual '373455 Replacing dou ⇒ Workshop Manual '370235 Checking and		0	n'
Checking an	d topping up	ATF		
Work Procedure: 1 Check and top up ATF; see \Rightarrow Workshop Manual '370235 Checking and topping up ATF'.			cking and topping up ATF'.	
Parts Info: Required part		arts:		
	Part No. Designat – Point of			Number
	9A7008526	$00 \Rightarrow Screw$		1 piece
Materials:	Required m	aterials (usually alrea	ady available in the Porsche Cente	er):
	Part No.	Designa – Point o		Quantity
	000043210	44 \Rightarrow Transm	nission oil ng and topping up ATF	20-liter / 5.28 gal container ¹⁾
	¹⁾ approx. 0.1 liter/ 3.38 fl oz required per vehicle			
Invoicing:		ntation and warranty in ecified below in the wa	nvoicing, enter the labor operation arranty claim:	ns, PQIS coding and relevant part

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: \Rightarrow Workshop Manual '370235 Checking and topping up ATF'

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Replacing AT	ſF					
Work Procedure	e: 1 Change ATF, se	$ m ee \Rightarrow$ Workshop Manual '370255 Changing /	4 <i>TF</i> '.			
Parts Info:	Required parts:					
	Part No.	Designation – Point of use	Numb	ber		
	PAF008973	\Rightarrow Screw plug with sealing ring – ATF pan	1 piec	ē		
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 piec	e		
Materials:	Required materia	Is (usually already available in the Porsche C	enter):			
	Part No.	Designation – Point of use	Quan	tity		
	00004321044	\Rightarrow Transmission oil – Replacing ATF	20-lite contai	er/ 5.28 gal iner 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: \Rightarrow Workshop Manual '370255 Replacing ATF'

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Replacing hy	ydraulic chamber b	reather	
Work Procedur	e: 1 Replace hydrauli	c chamber breather.	
	2 Check and top up	o ATF; see \Rightarrow Workshop Manual '370235 Ci	hecking and topping up ATF'.
Parts Info:	Required parts:		
	Part No.	Designation – Point of use	Number
	9A732121100	⇒ Bleed tube – Upper transmission side	1 piece
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 piece
Materials:	Required materials	(usually already available in the Porsche Ce	nter):
	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	

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

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

 \Rightarrow Workshop Manual '370235 Checking and topping up ATF' References:

Replacing ATF pan

Replace ATF pan; see \Rightarrow Workshop Manual '375519 Removing and installing ATF pan'. Work Procedure: 1

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

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	PAF008973	\Rightarrow Screw plug with sealing ring – ATF pan	1 piece	
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 piece	
Materials:	Required material	s (usually already available in the Porsche Cente	er):	
	Part No.	Designation – Point of use	Quantity	
	00004321044	\Rightarrow Transmission oil – Replacing ATF	20-liter/ 5.28 ga container ¹⁾	I

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: \Rightarrow Workshop Manual '375519 Removing and installing ATF pan'

Replacing lifting tube and oil inspection plug

Work Procedure: 1 Replace oil drain plug, see \Rightarrow Workshop Manual '370255 Changing ATF'.

2 Replace riser and tighten to **Tightening torque 27 Nm (19.9 ftlb.)**.

3 Replace oil inspection plug, see \Rightarrow Workshop Manual '370235 Checking and topping up ATF'.

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Parts Info: **Required parts:**

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

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	9A7321475	\Rightarrow Oil pipe (from production number 00007000) – Checking and topping up ATF	1 piece
		or	
	9A732147501	\Rightarrow Oil pipe (standard Panamera) – Checking and topping up ATF	1 piece
	PAF008973	\Rightarrow Screw plug with sealing ring – ATF pan	1 piece
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 piece
Material	s: Required material	s (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		Ind warranty invoicing, enter the labor operations, PQIS	coding and relevant part

voicing:	For documentation and warranty invoicing, enter the la
	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: \Rightarrow Workshop Manual '370255 Replacing ATF'

 \Rightarrow Workshop Manual '370235 Checking and topping up ATF'

Replacing radial shaft seal

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

> 2 Check and top up ATF; see \Rightarrow Workshop Manual '370235 Checking and topping up ATF'.

Parts Info: **Required parts:**

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Part No.	Designation	Number
Faitinu.	– Point of use	Number
9A714242600	\Rightarrow Shaft seal	1 piece
	– Clutch cover	
9A700839600	\Rightarrow Hexagon-head bolt	5 pieces
	– Transmission	·
N 91153202	\Rightarrow 12-point bolt	4 pieces
	– Transmission	
WHT004955A	\Rightarrow Hex socket head screw	1 piece
	– Universal joint	
N 10714101	\Rightarrow Hexagon flange bolt	2 pieces
	– Door sill strut	
N 91244301	\Rightarrow Hexagon-head bolt with hex socket head	2 pieces
N 0100/000	– Door sill strut	4
N 91006202	\Rightarrow Hexagon-head bolt	4 pieces
9A700489400	– Anti-roll bar	1 piece
94700409400	\Rightarrow O-ring – Rear cardan shaft	1 piece
9A752572202	\Rightarrow Circlip	1 piece
78732372202	– Rear cardan shaft	i piece
WHT005156	\Rightarrow 0-ring	1 piece
	– Rear cardan shaft	1 piece
9A750730100	⇒ Circlip	1 piece
	– Rear cardan shaft	
99904903240	\Rightarrow Hexagon-head plastic collar nut	4 pieces
	– Rear underbody cover	·
9A700852600	\Rightarrow Screw plug	1 piece
	 Checking and topping up ATF 	

Additional parts required (V6 monoturbo):

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

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	N 9115	7202	\Rightarrow Collared cheese head bolt with multiple-tooth hea – Dome strut	d 2 pieces
	N 1078	34702	\Rightarrow Hexagon flange bolt – Power steering gear	2 pieces
	PAF104	1029	⇒ Hexagon collar nut – Power steering gear	2 pieces
	9A7004	499500	⇒ Hexagon nut – Power steering gear	2 pieces
	N 9125	59801	⇒ Round head screw – Anti-roll bar mounting	2 pieces
	N 1060)9207	\Rightarrow Hexagon collar nut – Anti-roll bar mounting	2 pieces
	N 1062	9602	\Rightarrow Hexagon-head bolt – Anti-roll bar mounting	4 pieces
	N 9124	13701	\Rightarrow Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pieces
	N 1079	3603	\Rightarrow Hexagon-head bolt – Anti-roll bar	2 pieces
			or	
	N 1070	02302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 pieces
	9A7008	319800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 pieces
	N 9113	30801	\Rightarrow Hexagon collar nut, self-locking – Catalytic converter	3 pieces
	958117	111300	\Rightarrow Seal – Catalytic converter	1 piece
	955112	110830	⇒ Clamp – Catalytic converter	1 piece
	Addition	nal parts requ	ired (V6 biturbo):	
	Part No	0.	Designation – Point of use	Number
	9A7253	372500	\Rightarrow Clamp – Primary catalytic converter	2 pieces
	971253	3115B	\Rightarrow Seal – Primary catalytic converter	2 pieces

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N 10664503	⇒ Hexagon-head bolt – Dome strut	2 pieces
WHT008539	\Rightarrow Hexagon-head bolt with multiple-tooth head – Dome strut	2 pieces
N 10261311	\Rightarrow Hexagon nut – Dome strut	2 pieces
N 91157202	\Rightarrow 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	\Rightarrow Hexagon-head bolt – Anti-roll bar mounting	4 pieces
N 91243701	\Rightarrow 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	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 pieces
9A700819800	\Rightarrow 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	\Rightarrow Hexagon collar nut – Lower trailing arm	2 pieces
N 91244301	\Rightarrow Hexagon-head bolt with hex socket head – Front-axle carrier	6 pieces
N 90666003	\Rightarrow O-ring (I-no. OKO, 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	\Rightarrow Collared cheese head bolt with multiple-tooth head (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	4 pieces
012409413	\Rightarrow 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	\Rightarrow Hexagon nut – Strut (A-strut)	2 pieces
PAB253725	⇒ Clamp – Catalytic converter	2 pieces
5Q0253115B	⇒ Seal – Catalytic converter	2 pieces

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	N 10784702	⇒ Hexagon flange bolt – Power steering gear	2 piec	ces	
	PAF104029	 → Hexagon collar nut – Power steering gear 	2 piec	ces	
	9A700499500	⇒ Hexagon nut – Power steering gear	2 piec	ces	
	N 91259801	\Rightarrow Round head screw – Anti-roll bar mounting	2 piec	ces	
	N 10609207	\Rightarrow Hexagon collar nut – Anti-roll bar mounting	2 pieces		
	N 10629602	\Rightarrow Hexagon-head bolt – Anti-roll bar mounting	4 pieces		
	N 91243701	\Rightarrow Hexagon-head bolt with hex socket head – Anti-roll bar mounting	3 pieces		
	N 10793603	\Rightarrow Hexagon-head bolt – Anti-roll bar	2 piec	ces	
		or			
	N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 piec	ces	
	9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – Line for ATF cooling	2 piec	ces	
	9A725311531	⇒ Seal – Particle filter	1 piec	ce	
	9A725372521	\Rightarrow Clamp – Particle filter	1 piec	ce	
	04L253115	\Rightarrow Seal – Reducing agent injection valve	1 piec	ce	
	95811162510	\Rightarrow Clamp – Reducing agent injection valve	1 piec	ce	
	9A725313940	\Rightarrow Clamp – Particle filter	1 piec	ce	
Materials:	Required materials (usually already available in the Porsche Center)	:		
	Part No.	Designation	Quant	ity	
	00004321044	 – Point of use ⇒ Transmission oil – Checking and topping up ATF 	20-liter contair	r/ 5.28 gal her 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	\Rightarrow Assembly paste (I-no. 1X1) – All-wheel final drive input flange	10 g/ 0.35 oz tube ¹⁾
00004320593	\Rightarrow Lubricant – Cooling system O-rings	100 g/ 3.52 oz tube ²⁾
00004330516	\Rightarrow Coolant additive	20-liter/ 5.28 gal container ³⁾

approx. 2 grams/ 0.07 oz required per vehicle
 approx. 10 grams/ 0.35 oz required per vehicle
 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: \Rightarrow 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 \Rightarrow Workshop Manual '381819 Removing and installing wire harness in transmission'.

Parts Info: Required parts:

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	Part No.	Designation	Number
	9A790799800	 – Point of use ⇒ Wire harness – Hydraulic control unit 	1 piece
		or	
	9A790799801	\Rightarrow Wiring harness (standard Panamera) – Hydraulic control unit	1 piece
	9A731710000	\Rightarrow Sealing ring – ATF filter	1 piece
	9A731707000	⇒ Seal – ATF pan	1 piece
	9A700855200	⇒ Round head screw – ATF pan	13 pieces
	PAF008973	\Rightarrow Screw plug with sealing ring – ATF pan	1 piece
	9A700852600	\Rightarrow 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: 1Replace sealing ring on cardan flange, see \Rightarrow Workshop Manual '398255 Replacing cardan flange
sealing ring'.
 - 2 Check and top up ATF; see \Rightarrow Workshop Manual '370235 Checking and topping up ATF'.

Parts Info:	Required parts:		
	Part No.	Designation	Number
		– Point of use	
	9A730122710	\Rightarrow Shaft seal	1 piece
		– Cardan flange	
	9A730122710	\Rightarrow Dust boot	1 piece
		– Cardan flange	
	9A730715800	\Rightarrow Circlip	1 piece
		– Cardan flange	
	9A700489400	\Rightarrow 0-ring	1 piece
		– Rear cardan shaft	
	9A752572202	\Rightarrow Circlip	1 piece
		– Rear cardan shaft	
	WHT005156	\Rightarrow 0-ring	1 piece
		– Rear cardan shaft	
	9A750730100	\Rightarrow Circlip	1 piece
		– Rear cardan shaft	
	99904903240	\Rightarrow Hexagon-head plastic collar nut	4 pieces
		 Rear underbody cover 	
	9A700852600	\Rightarrow Screw plug	1 piece
		 Checking and topping up ATF 	
	Additional parts re	quired (V6 monoturbo):	
	Part No.	Designation – Point of use	Number
	95511110830	\Rightarrow Clamp	1 piece
	75511110050	– Catalytic converter	i piece
	Additional parts re	quired (V6 and V8 biturbo):	
	Part No.	Designation	Number
		– Point of use	
	95511110830	\Rightarrow Clamp	2 pieces
		– Catalytic converter	F
		,	

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	Additional parts re	quired (V8 Diesel):	
	Part No.	Designation – Point of use	Number
	9A725313940	⇒ Clamp – Particle filter	1 piece
Materials:	Required materials	s (usually already available in the Porsche C	center):
	Part No.	Designation – Point of use	Quantity
	00004321044	\Rightarrow Transmission oil – Checking and topping up ATF	20-liter/ 5.28 gal container ¹⁾
	¹⁾ approx. 0.1 liter/ 3	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: \Rightarrow Workshop Manual '398255 Replace cardan flange sealing ring'

 \Rightarrow 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.

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