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

Model Line: Pa	namera (971)
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- Model Year: As of 2017
- Concerns: Double clutch transmission (PDK)
- Information: Oil leaks on double clutch transmission.
- Action required: Find oil leaks and carry out the relevant repair measure.
- Contents:
- Preparatory work, see ⇒ *Technical Information 'Preparatory work'*
 - Leaks on left side of transmission \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 ⇒ 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 \Rightarrow Technical Information 'Leaks on front side of transmission'
 - Leaks on rear side of transmission ⇒ Technical Information 'Leaks on rear side of transmission'

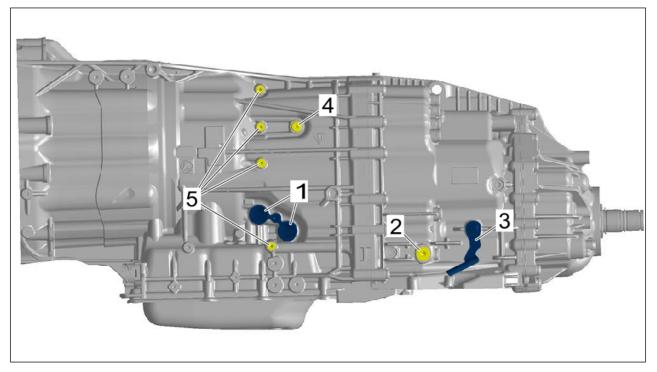
Preparatory work

Work Procedure:

Information

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

Leaks on left side of transmission



Left side of transmission

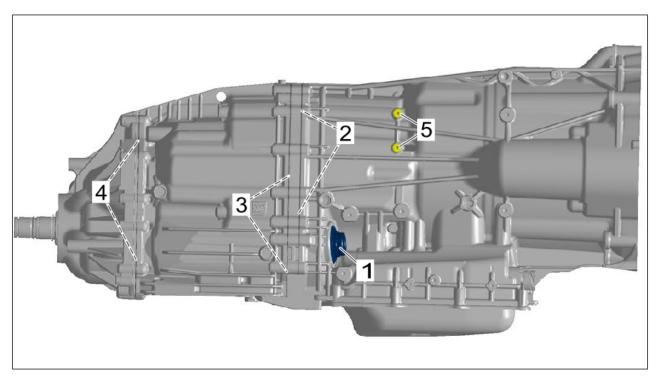
Position	Leak area	Possible cause(s)	Repair measure
⇒Left side of trans-	ATF cooler connections	Sealing ring damaged	Replace sealing ring on ATF cooling line, see <i>⇒ Technical Information 'Replacing</i> <i>sealing ring on ATF cooling line'</i> .
mission - 1 -		Line damaged	Replace ATF cooling line,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

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 \Rightarrow Left side
of trans-
mission -5-Plug looseCheck that it is installed securely.
Replace screw plug if necessary,
see \Rightarrow Technical Information
'Replacing screw plug'.

Leaks on right side of transmission

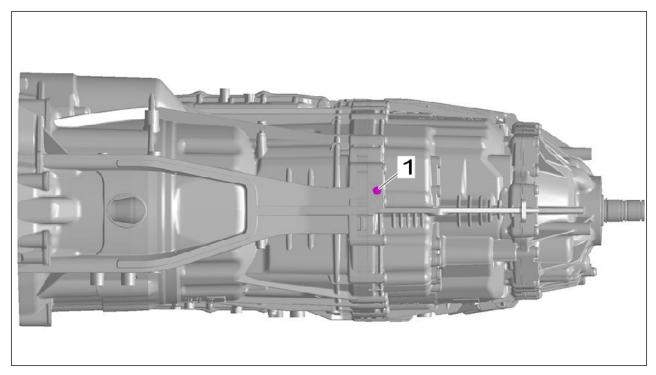


Right side of transmission

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

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

Leaks on upper side of transmission



Upper side of transmission

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Position	Oil leak	Cause	Repair measure
⇒ Upper		Oil over-filled	Check and top up ATF, see ⇒ Technical Information 'Checking and topping up ATF'.
side of	Hydraulic chamber breather	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> .

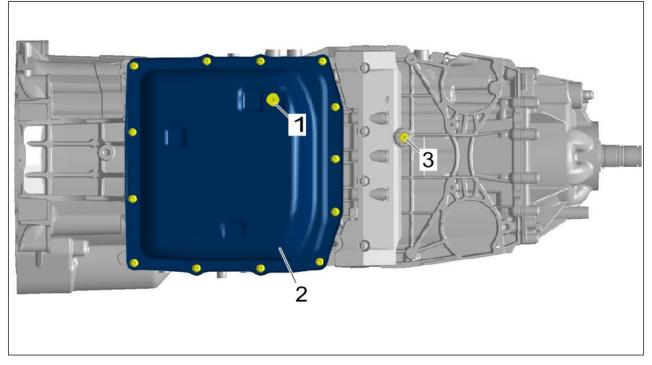
Leaks on lower side of transmission



Information

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

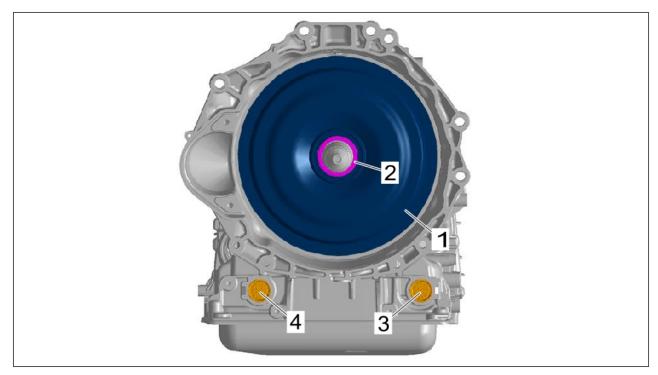
- Check that accessible screws on the ATF pan are installed securely with the specified tightening torque and tighten them correctly if necessary.
- Clean the ATF pan area thoroughly as oil leaking in under the ATF pan seal can lead to the wrong conclusions.



Lower side of transmission

Position	Oil leak	Cause	Repair measure
⇒Lower		Plug 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 ⇒ <i>Technical Information</i> ' <i>Replacing oil drain plug</i> '.
⇒Lower side of	ATF pan	Screws loose	Check that they are 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		Plug 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'.

Leaks on front side of transmission



Front side of transmission

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Position	Oil leak	Cause	Repair measure
		Apparent assembly grease leak	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-	Clutch bell-housing and clutch cover	Engine leaking	Find oil leaks and fix them.
mission-1-		Replace radial shaft seal on clutch Replace radial shaft seal, see =	Replace radial shaft seal, see ⇒ Technical Information 'Replacing radial shaft seal'.
		O-ring on clutch cover 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 at the left	Connector leaking	Replace wire harness in transmission, see ⇒ Technical Information 'Wire harness displaced'.
⇒ Front side of trans- mission - 4 -	Central connector at 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

 \Rightarrow Workshop Manual '386219 Removing and installing ATF cooling line (rear section)' or \Rightarrow Workshop Manual '386219 Removing and installing ATF cooling line (Hybrid)'.

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

Technic	al Information		Service 163/20 ENU 3734 3
Parts Info:	Parts required:		
	Part No.	Designation – Use	Qty.
	9A700819800	\Rightarrow O-ring – ATF cooling line	2 ea.
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 ea.
Materials:	Required materials	(usually already available at the Porsche d	ealer):
	Part No.	Designation – Use	Qty.
	00004321044	\Rightarrow Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾
	¹⁾ approx. 1 liter/ 33	3.8 fl oz required per vehicle	
	For doour ontation of	ad warranty invairing antar the labor an ar	stiene DOIC coding and relevant part

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

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

PQIS coding:

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

References: \Rightarrow Workshop Manual '386219 Removing and installing ATF cooling line (rear section)'

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

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

Replacing ATF cooling line

Work Procedure: 1 Replace ATF cooling line, see

 \Rightarrow Workshop Manual '386219 Removing and installing ATF cooling line (rear section)' or \Rightarrow Workshop Manual '386219 Removing and installing ATF cooling line (Hybrid)'.

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

Parts Info:	Parts required:		
	Part No.	Designation – Use	Qty.
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 ea.
	Additional parts requ	ired (not for PHEV):	
	Part No.	Designation – Use	Qty.
	0DS317760	\Rightarrow Oil pressure line (complete) – ATF cooling	1 ea.
	Additional parts requ	ired (V6 PHEV):	
	Part No.	Designation – Use	Qty.
	0DS317760A	\Rightarrow Oil pressure line (complete) – ATF cooling	1 ea.
	Additional parts requ	ired (V8 PHEV):	
	Part No.	Designation – Use	Qty.
	ODS317760A	\Rightarrow Oil pressure line (complete) – ATF cooling	1 ea.
		or	
	ODS317760B	\Rightarrow Rear oil pressure line (from 25.09.2017) – ATF cooling	1 ea.
		and	
	ODS317760C	\Rightarrow Front oil pressure line (from 25.09.2017) – ATF cooling	1 ea.

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Required materia	Is (usually already available at the Porsche deale	r):
Part No.	Designation – Use	Qty.
00004321044	\Rightarrow Transmission oil – Checking and topping up ATF	20 liter/ 5.28 gal container ¹⁾

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

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

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

PQIS coding:

Materials:

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

References: \Rightarrow Workshop Manual '386219 Removing and installing ATF cooling line (rear section)'

 \Rightarrow Workshop Manual '386219 Removing and installing ATF cooling line (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.

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

Parts Info: Parts required:

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



Materials:	Required materials	(usually already available at the Porsche dealer):	
	Part No.	Designation – Use	Qty.
	00004321044	\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 (6ftlb.).
 - 2 Check and top up ATF, see \Rightarrow Workshop Manual '370235 Checking and topping up ATF'.

Parts Info:	Parts required:		
	Part No.	Designation – Use	Qty.
	9A700852600	\Rightarrow Screw plug – Transmission housing	1 ea.
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 ea.
Materials:	Required materials ((usually already available at the Porsche dealer):	
	Part No.	Designation – Use	Qty.
	00004321044	\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

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

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

PQIS coding:

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

References: \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: Parts required:

Part No.	Designation – Location	Qty.
9A730145700	\Rightarrow Shaft sealing ring	1 ea.
	 Transmission output 	
9A700851900	\Rightarrow Cover ring	1 ea.
	 Transmission output 	
N 90576501	\Rightarrow 0-ring	2 ea.
	 Connecting shaft 	
9A700839600	\Rightarrow Hexagon-head bolt	5 ea.
	– Transmission	
N 91153202	\Rightarrow 12-point bolt	4 ea.
	– Transmission	
WHT004955A	\Rightarrow Internal hexagon round cheese head bolt	1 ea.
	– Universal joint	
N 10714101	\Rightarrow Hexagon flange bolt	2 ea.
	– Door sill strut	
N 91244301	\Rightarrow Hex flange bolt with hexagon socket head	2 ea.
	– Door sill strut	



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N 91006202	\Rightarrow Hexagon-head bolt	4 ea.
04700400400	- Anti-roll bar	1
9A700489400	⇒ O-ring – Rear cardan shaft	1 ea.
9A752572202	\Rightarrow Circlip	1 ea.
	– Rear cardan shaft	
WHT005156	\Rightarrow 0-ring	1 ea.
	– Rear cardan shaft	
9A750730100	\Rightarrow Circlip	1 ea.
	– Rear cardan shaft	
99904903240	\Rightarrow Hexagon plastic collar nut	4 ea.
	 Rear underbody cover 	
9A700852600	\Rightarrow Screw plug	1 ea.
	 Checking and topping up ATF 	

Additional parts required (V6 monoturbo):

Designation	Qty.
	1 ea.
•	i ea.
5 5	1 ea.
,	i ea.
5 5	2 ea.
-	z ea.
	2
5	2 ea.
	2 ea.
-	z ca.
	2 ea.
•	2 00.
	2 ea.
	2 ea.
	2 ea.
-	
\Rightarrow Round head screw	2 ea.
– Anti-roll bar mount	
\Rightarrow Hexagon collar nut	2 ea.
– Anti-roll bar mount	
\Rightarrow Hexagon flange bolt	4 ea.
– Anti-roll bar mount	
\Rightarrow Hexagon flange bolt with hexagon socket head	3 ea.
– Anti-roll bar mount	
	 → Clamp → Primary catalytic converter ⇒ Seal → Primary catalytic converter ⇒ Seal → Primary catalytic converter ⇒ Hex flange bolt → Dome strut ⇒ Hex flange bolt with multiple-tooth head > Dome strut ⇒ Hexagon nut > Dome strut ⇒ Collared cheese head bolt with multiple-tooth head > Dome strut ⇒ Collared cheese head bolt with multiple-tooth head > Dome strut ⇒ Hexagon flange bolt > Power-steering gear ⇒ Hexagon collar nut > Power-steering gear ⇒ Hexagon nut > Power-steering gear ⇒ Hexagon nut > Anti-roll bar mount ⇒ Hexagon flange bolt

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N 10793603	⇒ Hex flange bolt – Anti-roll bar or	2 ea.		
N 10702302	 ⇒ Hexagon-head bolt – Anti-roll bar (PDCC) 	2 ea.		
9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) - ATF cooling line	2 ea.		
N 91130801	⇒ Hexagon collar nut, self-locking – Catalytic converter	3 ea.		
95811111300	\Rightarrow Seal – Catalytic converter	1 ea.		
95511110830	⇒ Clamp – Catalytic converter	1 ea.		
Additional parts requ	ired (V6 biturbo):			
Part No.	Designation – Use	Qty.		
9A725372500	\Rightarrow Clamp – Primary catalytic converter	2 ea.		
971253115B	\Rightarrow Seal – Primary catalytic converter	2 ea.		
N 10664503	⇒ Hex flange bolt – Dome strut	2 ea.		
WHT008539	\Rightarrow Hex flange bolt with multiple-tooth head – Dome strut	2 ea.		
N 10261311	⇒ Hexagon nut – Dome strut	2 ea.		
N 91157202	\Rightarrow Collared cheese head bolt with multiple-tooth – Dome strut	n head 2 ea.		
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.		
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.		
9A700499500	\Rightarrow Hexagon nut – Power-steering gear	2 ea.		
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.		
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.		

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

Additional parts required (V8 biturbo):

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

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	1	163/20enu 3734	<u> </u>
012409413	\Rightarrow Circlip (I-no. 1X1) – Input flange on all-wheel final drive	1 ea.	
95511110830	⇒ Clamp – Catalytic converter	2 ea.	
9A725372500	\Rightarrow Clamp – Primary catalytic converter	2 ea.	
971253115B	\Rightarrow Seal – Primary catalytic converter	2 ea.	
Additional parts requ	ired (V8 Diesel):		
Part No.	Designation – Use	Qty.	
N 90440003	⇒ Hexagon-head bolt – Strut (A-strut)	2 ea.	
N 10261311	⇒ Hexagon nut – Strut (A-strut)	2 ea.	
PAB253725	⇒ Clamp – Catalytic converter	2 ea.	
5Q0253115B	\Rightarrow Seal – Catalytic converter	2 ea.	
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.	
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.	
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.	
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.	
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.	
N 10629602	\Rightarrow Hexagon flange bolt – Anti-roll bar mount	4 ea.	
N 91243701	\Rightarrow Hexagon flange bolt with hexagon socket he – Anti-roll bar mount	ead 3 ea.	
N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.	
	or		

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		N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
		9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – ATF cooling line	2 ea.
		9A725311531	⇒ Seal – Particle filter	1 ea.
		9A725372521	⇒ Clamp – Particle filter	1 ea.
		04L253115	\Rightarrow Seal – Reducing agent injection valve	1 ea.
		95811162510	\Rightarrow Clamp – Reducing agent injection valve	1 ea.
		9A725313940	⇒ Clamp – Particle filter	1 ea.
Materia	ls:	Required materia	als (usually already available at the Porsche de	aler):
		Part No.	Designation – Use	Qty.
		00004330586	\Rightarrow Mounting paste	10 g tube ¹⁾
		00004321044	 Input flange on all-wheel final drive ⇒ 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 mater	ials required (V8 biturbo):	
		Part No.	Designation – Use	Qty.
		00004320593	\Rightarrow Lubricating grease – O-rings for cooling system	100g tube ¹⁾
		00004330516	\Rightarrow Coolant additive	20 liter / 5.28 gal container ²⁾
		¹⁾ approx. 10 gram	ns/ 0.35 oz required per vehicle	
		2) approx O E liter	16.0 fl oz roguirod por vohiclo	

 $^{2)}$ approx. 0.5 liter/ 16.9 fl oz required per vehicle

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

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

PQIS coding:

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

References: \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: Parts required:

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

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\Rightarrow O-ring	1 ea.
– Rear cardan shaft	
\Rightarrow Circlip	1 ea.
– Rear cardan shaft	
\Rightarrow 0-ring	1 ea.
– Rear cardan shaft	
\Rightarrow Circlip	1 ea.
– Rear cardan shaft	
\Rightarrow Hexagon plastic collar nut	4 ea.
 Rear underbody cover 	
\Rightarrow Screw plug	1 ea.
 Checking and topping up ATF 	
	 Rear cardan shaft ⇒ Circlip Rear cardan shaft ⇒ O-ring Rear cardan shaft ⇒ Circlip Rear cardan shaft ⇒ Hexagon plastic collar nut Rear underbody cover ⇒ Screw plug

Additional parts required (V6 monoturbo):

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

Technical Information		ervice	\mathbf{O}
	1	63/20 enu 3734	3
	or		
N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.	
9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) - ATF cooling line	2 ea.	
N 91130801	 ⇒ Hexagon collar nut, self-locking – Catalytic converter 	3 ea.	
95811111300	\Rightarrow Seal	1 ea.	
	- Catalytic converter		
95511110830	\Rightarrow Clamp – Catalytic converter	1 ea.	
Additional parts requ	lired (V6 biturbo):		
Part No.	Designation	Qty.	
l'artivo.	– Use	Qty.	
9A725372500	⇒ Clamp – Primary catalytic converter	2 ea.	
971253115B	⇒ Seal – Primary catalytic converter	2 ea.	
N 10664503	⇒ Hex flange bolt – Dome strut	2 ea.	
WHT008539	\Rightarrow Hex flange bolt with multiple-tooth head – Dome strut	2 ea.	
N 10261311	\Rightarrow Hexagon nut – Dome strut	2 ea.	
N 91157202	\Rightarrow Collared cheese head bolt with multiple-toot – Dome strut	h head 2 ea.	
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.	
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.	
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.	
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.	
N 10609207	\Rightarrow Hexagon collar nut – Anti-roll bar mount	2 ea.	
N 10629602	\Rightarrow Hexagon flange bolt – Anti-roll bar mount	4 ea.	

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

Additional parts required (V8 biturbo):

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

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		163/20enu 3	734 J
95511110830	\Rightarrow Clamp – Catalytic converter	2 ea.	
9A725372500	⇒ Clamp – Primary catalytic converter	2 ea.	
971253115B	\Rightarrow Seal – Primary catalytic converter	2 ea.	
Additional parts requ	ired (V8 Diesel):		
Part No.	Designation – Use	Qty.	
N 90440003	⇒ Hexagon-head bolt – Strut (A-strut)	2 ea.	
N 10261311	⇒ Hexagon nut – Strut (A-strut)	2 ea.	
PAB253725	\Rightarrow Clamp – Catalytic converter	2 ea.	
5Q0253115B	\Rightarrow Seal – Catalytic converter	2 ea.	
N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.	
PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.	
9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.	
N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.	
N 10609207	⇒ Hexagon collar nut – Anti-roll bar mount	2 ea.	
N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.	
N 91243701	\Rightarrow Hexagon flange bolt with hexagon socket h – Anti-roll bar mount	ead 3 ea.	
N 10793603	\Rightarrow Hex flange bolt – Anti-roll bar	2 ea.	
	or		
N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.	

$\mathbf{}$	Service		Technical Information
<u> </u>	3734 ENU163/20		
	9A700819800	\Rightarrow O-ring (l-no. OKO, A8F, EOW) – ATF cooling line	2 ea.
	9A725311531	⇒ Seal – Particle filter	1 ea.
	9A725372521	⇒ Clamp – Particle filter	1 ea.
	04L253115	\Rightarrow Seal – Reducing agent injection valve	1 ea.
	95811162510	\Rightarrow Clamp – Reducing agent injection valve	1 ea.
	9A725313940	\Rightarrow Clamp – Particle filter	1 ea.
Materia	ls: Required material	is (usually already available at the Porsche d	lealer):
	Part No.	Designation – Use	Qty.
	00004330586	⇒ Mounting paste – Input flange on all-wheel final drive	10 g tube ¹⁾
	00004321044	\Rightarrow 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 materia	als required (V8 biturbo):	
	Part No.	Designation – Use	Qty.
	00004320593	⇒ Lubricating grease – O-rings for cooling system	100g tube ¹⁾
	00004330516	\Rightarrow Coolant additive	20 liter/ 5.28 gal container ²⁾
	¹⁾ approx. 10 grams	s/ 0.35 oz required per vehicle	

¹⁾ approx. 10 grams/ 0.35 oz required per vehicle
 ²⁾ approx. 0.5 liter/ 16.9 fl oz required per vehicle

Technical Information	Service		C
rechnical information	163/20enu	3734	<u> </u>

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

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

PQIS coding:

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

References: \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:	Parts required:		
	Part No.	Designation – Location	Qty.
	9A732107300	⇒ Cap – Transmission output	1 ea.
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 ea.
Materials:	Required materials	(usually already available at the Porsche dealer):	
	Part No.	Designation – Use	Qty.
	00004321044	\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

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

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

PQIS coding:

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

References: \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 Info: Parts required:

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

Technical Information		Service		^
Technical Information	1	63/20enu	3734	3
WHT004571	⇒ Collared cheese head bolt with multiple-tooth (I-no. 1LN, 1ZT, 1LU, 1LD) – Front brake calliper	i head 4 ea.		
WHT004572	or ⇒ Collared cheese head bolt with multiple-tooth (I-no. 1LJ, 1LW, 1LV, 1ZQ) – Front brake calliper	n head 4 ea.		
012409413	\Rightarrow Circlip (I-no. 1X1) = Input flange on all-wheel final drive	1 ea.		
9A700489400	\Rightarrow O-ring – Rear cardan shaft	1 ea.		
9A752572202	\Rightarrow Circlip – Rear cardan shaft	1 ea.		
WHT005156	\Rightarrow O-ring – Rear cardan shaft	1 ea.		
9A750730100	⇒ Circlip - Rear cardan shaft	1 ea.		
99904903240	\Rightarrow Hexagon plastic collar nut – Rear underbody cover	4 ea.		
9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 ea.		
Additional parts requ	uired (V6 monoturbo):			
Part No.	Designation – Use	Qty.		
95511110830	\Rightarrow Clamp – Catalytic converter	2 ea		
9A725372510	\Rightarrow Clamp – Primary catalytic converter	1 ea		
9A725311507	\Rightarrow Seal – Primary catalytic converter	1 ea		
Additional parts requ	uired (V6 and V8 biturbo):			
Part No.	Designation - Use	Qty.		
9A700863500 ¹⁾	⇒ Internal hexagon round-head bolt – Electric motor	14 e	8.	
9A7301131 ¹⁾	\Rightarrow Seal for transmission cover – Electric motor	1 ea		

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

¹⁾ Only for hybrid vehicles

²⁾ Not for hybrid vehicles

Additional parts required (V8 Diesel):

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

Technical Information		Service 2	
			163/20enu 3734 J
	95811162510	\Rightarrow Clamp – Reducing agent injection valve	1 ea.
	9A725313940	⇒ Clamp – Particle filter	1 ea.
Materials:	Required material	s (usually already available at the Porsche dea	aler):
	Part No.	Designation – Use	Qty.
	00004330586	\Rightarrow Mounting paste (I-no. 1X1) – Input flange on all-wheel final drive	10 g tube ¹⁾
	00004320593	\Rightarrow Lubricating grease – O-rings for cooling system	100 g 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⁾
	¹⁾ approx. 2 grams/	0.07 oz required per vehicle	
	²⁾ approx. 10 grams	/ 0.35 oz required per vehicle	
	³⁾ approx. 0.5 liter/	16.9 fl oz required per vehicle	
	⁴⁾ approx. 0.1 liter/	3.38 fl oz required per vehicle	

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

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

	PQIS coding:				
Location (F	ES5)	30490	Double clutch		
Damage ty	pe (SA4)	5041	Oil/grease leak		
References:	- Workshop	Manual '373455 Ponta	acing double clutch transmissior	,,	
Nelelelices.			0		
	\Rightarrow workshop	Manual 370235 Chec	king and topping up ATF'		
Checking a	nd topping up	ATF			
Work Procedu	ire 1 Check an	nd ton un ATE see - M	/orkshop Manual '370235 Chec.	king and topping up ATE'	
WORKFIDCEUU		$10 top up ATT, see \rightarrow n$	iorkshop manuar 570255 chec	King and topping up ATT .	
Parts Info:	Parts require	Parts required:			
	Part No.	Designatio	n	Qty.	
	9A70085260	- Use 0 ⇒ Screw pl	ua	1 ea.	
	////0000200	1	and topping up ATF	r ou.	
				,	
Materials:	Required materials (usually already available at the Porsche dealer):				
	Part No.	Designatio – Use	on	Qty.	
	0000432104			20 liter/ 5.28 gal	
		– Checking	and topping up ATF	container ¹⁾	
	¹⁾ approx. 0.1	liter/ 3.38 fl oz requir	ed per vehicle		
Invoicing:	For document	ation and warranty inv	oicing, enter the labor operation	s, PQIS coding and relevant part	

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

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

PQIS coding:

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

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

Tochnic	echnical Information		Service		\mathbf{O}
		Ι	163/20enu	3734	3
Changing A	ſF				
Work Procedur	e: 1 Change ATF, se	$ee \Rightarrow$ Workshop Manual '370255 Changing .	ATF'.		
Parts Info:	Parts required:				
	Part No.	Designation – Use	Qty.		
	PAF008973	\Rightarrow Screw plug with sealing ring – ATF pan	1 ea.		
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 ea.		
Materials:	Required materia	Is (usually already available at the Porsche c	lealer):		
	Part No.	Designation – Use	Qty.		
	00004321044	\Rightarrow Transmission oil – Changing ATF	20 liter contair	r/ 5.28 gal ner ¹⁾	

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

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

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

PQIS coding:

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

or

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

References: \Rightarrow Workshop Manual '370255 Changing ATF'

つ		Service	Technical Information	
<u> </u>	3734	enu 163/20		
Replac	ing hyc	Iraulic chamber b	reather	
Work Pro	ocedure:	1 Replace hydrau	lic chamber breather.	
		2 Check and top u	IP ATF, see $⇒$ Workshop Manual '370235 Cl	hecking and topping up ATF'.
Parts Inf	0:	Parts required:		
		Part No.	Designation – Use	Qty.
		9A732121100	\Rightarrow Breather pipe – Upper side of transmission	1 ea.
		9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 ea.
Materials	S:	Required material	s (usually already available at the Porsche de	ealer):

Part No.	Designation – Use	Qty.
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)	37020	ATF
Damage type (SA4)	3017	Traces of oil/grease/wax

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

Replacing ATF pan

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

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

Technical Information		Service	<u></u>	
			163/20enu 3734	<u>3</u>
	PAF008973	\Rightarrow Screw plug with sealing ring – ATF pan	1 ea.	
	9A700852600	\Rightarrow Screw plug - Checking and topping up ATF	1 ea.	
Materials:	Required materia	Is (usually already available at the Porsche c	dealer):	
	Part No.	Designation – Use	Qty.	
	00004321044	\Rightarrow Transmission oil – Changing ATF	20 liter/ 5.28 gal container ¹⁾	

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

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

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

PQIS coding:

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

References: \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 lifting tube and tighten to Tightening torque 27 Nm (20 ftlb.) .

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

Parts Info: **Parts required:**

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

3	Service 3734 ENU163/20	Teo	chnical Information
	9A7321475	\Rightarrow Oil pipe (from production number 00007000) – Checking and topping up ATF or) 1 ea.
	9A732147501	 ⇒ Oil pipe (Panamera base model) – Checking and topping up ATF 	1 ea.
	PAF008973	\Rightarrow Screw plug with sealing ring – ATF pan	1 ea.
	9A700852600	\Rightarrow Screw plug – Checking and topping up ATF	1 ea.
Material	s: Required materia	Is (usually already available at the Porsche dealer):	
	Part No.	Designation – Use	Qty.
	00004321044	\Rightarrow Transmission oil – Changing ATF	20 liter/ 5.28 gal container ¹⁾
	¹⁾ approx. 6 liter/ 1	.59 gal required per vehicle	

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

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

PQIS coding:

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

References: \Rightarrow Workshop Manual '370255 Changing ATF'

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

Replacing radial shaft seal

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

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

Technical Information	Service		C
	163/20enu	3734	3

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

Additional parts required (V6 monoturbo):

Parts Info:

Parts required:

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

$\overline{1}$	Service	Tachni	collaformation
<u> </u>	3734 ENU163/20	Techini	cal Information
	N 91157202	\Rightarrow Collared cheese head bolt with multiple-tooth head – Dome strut	2 ea.
	N 10784702	\Rightarrow Hexagon flange bolt – Power-steering gear	2 ea.
	PAF104029	⇒ Hexagon collar nut – Power-steering gear	2 ea.
	9A700499500	⇒ Hexagon nut – Power-steering gear	2 ea.
	N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.
	N 10609207	\Rightarrow Hexagon collar nut – Anti-roll bar mount	2 ea.
	N 10629602	\Rightarrow Hexagon flange bolt – Anti-roll bar mount	4 ea.
	N 91243701	\Rightarrow Hexagon flange bolt with hexagon socket head – Anti-roll bar mount	3 ea.
	N 10793603	\Rightarrow Hex flange bolt – Anti-roll bar	2 ea.
		or	
	N 10702302	\Rightarrow Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.
	9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – ATF cooling line	2 ea.
	N 91130801	\Rightarrow Hexagon collar nut, self-locking – Catalytic converter	3 ea.
	95811111300	\Rightarrow Seal – Catalytic converter	1 ea.
	95511110830	⇒ Clamp – Catalytic converter	1 ea.
	Additional parts requ	ired (V6 biturbo):	
	Part No.	Designation – Use	Qty.
	9A725372500	\Rightarrow Clamp – Primary catalytic converter	2 ea.
	971253115B	\Rightarrow Seal – Primary catalytic converter	2 ea.

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

Additional parts required (V8 biturbo):

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

Additional parts required (V8 Diesel):

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

Technical Information			Service		つ
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	N 10704700	-> Llovegon flange holt	2.00		
	N 10784702	⇒ Hexagon flange bolt – Power-steering gear	2 ea.		
	PAF104029	\Rightarrow Hexagon collar nut – Power-steering gear	2 ea.		
	9A700499500	\Rightarrow Hexagon nut – Power-steering gear	2 ea.		
	N 91259801	⇒ Round head screw – Anti-roll bar mount	2 ea.		
	N 10609207	\Rightarrow Hexagon collar nut – Anti-roll bar mount	2 ea.		
	N 10629602	⇒ Hexagon flange bolt – Anti-roll bar mount	4 ea.		
	N 91243701	\Rightarrow Hexagon flange bolt with hexagon socket h – Anti-roll bar mount	nead 3 ea.		
	N 10793603	⇒ Hex flange bolt – Anti-roll bar	2 ea.		
		or			
	N 10702302	⇒ Hexagon-head bolt – Anti-roll bar (PDCC)	2 ea.		
	9A700819800	\Rightarrow O-ring (I-no. OKO, A8F, EOW) – ATF cooling line	2 ea.		
	9A725311531	\Rightarrow Seal – Particle filter	1 ea.		
	9A725372521	⇒ Clamp – Particle filter	1 ea.		
	04L253115	\Rightarrow Seal – Reducing agent injection valve	1 ea.		
	95811162510	\Rightarrow Clamp – Reducing agent injection valve	1 ea.		
	9A725313940	\Rightarrow Clamp – Particle filter	1 ea.		
Materials:	Required materials	(usually already available at the Porsche dealer):			
	Part No.	Designation	Qty.		
	00004321044	 – Use ⇒ Transmission oil – Checking and topping up ATF 	20 liter contain	7 5.28 gal ner ¹⁾	
	$^{1)}$ approx 0.1 liter/3	38 fl oz reguired per vehicle			

AfterSales

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

Additional materials required (V8 biturbo):

Part No.	Designation	
	- Use	Qty.
00004330586	 → Mounting paste (I-no. 1X1) – Input flange on all-wheel final drive 	10 g tube ¹⁾
00004320593	⇒ Lubricating grease – O-rings for cooling system	100 g tube ²⁾
00004330516	\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 double clutch transmission	
38695550	Replacing radial shaft seal	
37023550	Checking and topping up ATF	

PQIS coding:

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

References: \Rightarrow Workshop Manual '386955 Replacing radial shaft seal'

 \Rightarrow 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

Parts Info: Parts required:

Part	No.	Designation – Use	Qty.
9A79	90799800	⇒ Wire harness – Hydraulic control unit	1 ea.
		or	
9A79	90799801	\Rightarrow Wire harness (Panamera base model) – Hydraulic control unit	1 ea.
9A73	31710000	\Rightarrow Sealing ring – ATF filter	1 ea.
9A73	31707000	⇒ Seal – ATF pan	1 ea.
9A70	0855200	⇒ Round head screw – ATF pan	13 ea.
PAFO	08973	\Rightarrow Screw plug with sealing ring – ATF pan	1 ea.
9A70	00852600	 ⇒ Screw plug – Checking and topping up ATF 	1 ea.

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

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

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

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

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

PQIS coding:

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

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

Replacing cardan flange sealing ring

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

Parts Info:	Parts required:		
	Part No.	Designation	Qty.
		– Use	
	9A730122710	\Rightarrow Shaft sealing ring	1 ea.
		– Cardan flange	
	9A730122710	\Rightarrow Dust cap	1 ea.
		– Cardan flange	
	9A730715800	\Rightarrow Circlip	1 ea.
		– Cardan flange	
	9A700489400	\Rightarrow O-ring	1 ea.
		– Rear cardan shaft	
	9A752572202	\Rightarrow Circlip	1 ea.
		– Rear cardan shaft	
	WHT005156	\Rightarrow O-ring	1 ea.
		– Rear cardan shaft	
	9A750730100	\Rightarrow Circlip	1 ea.
		– Rear cardan shaft	
	99904903240	\Rightarrow Hexagon plastic collar nut	4 ea.
		 Rear underbody cover 	
	9A700852600	\Rightarrow Screw plug	1 ea.
		 Checking and topping up ATF 	
	Additional parts requ	uired (V6 monoturbo):	
	Part No.	Designation – Location	Qty.
	95511110830	\Rightarrow Clamp	1 ea.
	70011110000	– Catalytic converter	r cu.
	Additional parts requ	uired (V6 and V8 biturbo):	
	Part No.	Designation	Qty.
		– Use	
	95511110830	\Rightarrow Clamp	2 ea.
		– Catalytic converter	
		-	

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	Additional parts re	quired (V8 Diesel):	
	Part No.	Designation – Use	Qty.
	9A725313940	\Rightarrow Clamp – Particle filter	1 ea.
Materials:	Materials: Required materials (usually already available at the Porsche dealer):		dealer):
	Part No.	Designation – Use	Qty.
	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:	The work involved is invoiced under the labor operation:		

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

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

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

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

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

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