

**Transmission symptom - Oil leakage on automatic transmission: Observe specified procedure (SY 205/20)**

**Change overview:**

Release	Date	Change
0	03/01/2021	<ul style="list-style-type: none"> <li>• First publication</li> </ul>
1	06/27/2024	<ul style="list-style-type: none"> <li>• Vehicle types added</li> <li>• "Required parts" sections adapted to new vehicle types</li> </ul>

Model Line: **Cayenne (9YA / 9YB)**

Model Year: **As of 2018**

Concerns: **Automatic transmission**

Symptom: Oil leakage is found on the vehicle in the area of the automatic transmission. The location and cause of the problem cannot always be clearly determined.

Background: We have discovered that the location and cause could not always be clearly determined in the dealer organization when attempting to resolve the complaint "Oil leakage". As a result, some of the repair measures that were carried out were not always effective.

An oil-contaminated oil pan, for example, may also be caused by oil migrating from the threaded connection on the oil line.



**Information**

Oil leaks on the transfer box are described in the document ⇒ *Technical Information 'Transmission symptom - Oil leaks on transfer box: Observe specified procedure (SY 206/20)'*.

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

**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 PCSS line.
- 3 Clean automatic transmission and transfer box thoroughly.



#### Information

If the oil leak has spread so that the oil pan is also contaminated  $\Rightarrow$  *Oil migration*, proceed as follows in the event of a complaint:

- Check that the screws on the ATF pan are accessible and are seated correctly with the specified tightening torque and secure properly if necessary.
- Clean the area of the ATF pan extremely thoroughly as oil penetration of the ATF pan seal can result in incorrect interpretation.



*Oil migration*

- 4 Spray large areas of the automatic transmission and transfer box with SpotCheck around the suspected leakage points.
- 5 Perform a test drive.
- 6 Locate the oil leakage:
  - The oil leakage is located on the transfer box; continue with  $\Rightarrow$  *Technical Information 'Transmission symptom - Oil leakage on transfer box: Observe specified procedure (SY 206/20)'*.
  - The oil leakage is located on the automatic transmission; continue with  $\Rightarrow$  *Technical Information 'Oil leakage on automatic transmission'*.
  - The oil leakage cannot be clearly identified; continue with  $\Rightarrow$  *Technical Information 'Oil leakage on automatic transmission'*.
- 7 Produce photo documentation of the leakage point located using SpotCheck.
- 8 Attach documentation to PCSS line.

### Oil leakage on automatic transmission



#### Information

Traces of oil on the ATF pan can occur as a result of oil migration. Only in rare cases is the ATF pan seal defective.

- 1 Check for oil leakage on the underside of the ATF pan  $\Rightarrow$  *Crack in ATF pan*.  
If a crack is discovered, replace the ATF pan; see  $\Rightarrow$  *Technical Information 'Replacing ATF pan'*.



*Crack in ATF pan*



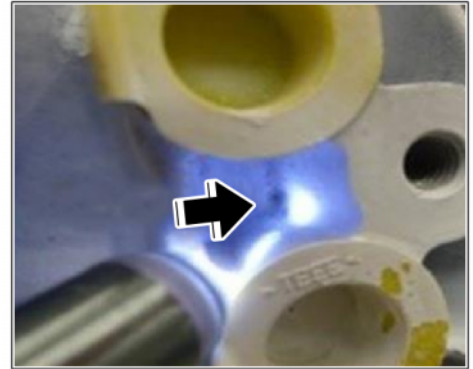
**Information**

An oil-contaminated oil pan may also be caused by oil migrating from the threaded connection on the oil line.

- 2 Check for oil leakage on the flange of the ATF cooling line ⇒ *Flange leaking* or ⇒ *Transmission housing porous*.
  - 2.1 In the case of oil leakage on the flange, replace both sealing rings; see ⇒ *Technical Information 'Replacing sealing ring on ATF cooling line'*.
  - 2.2 In the case of oil leakage between the flanges (transmission housing porous), replace the automatic transmission; see ⇒ *Technical Information 'Replacing automatic transmission'*



*Flange leaking*



*Transmission housing porous*

- 3 Check for oil leakage on the ATF cooling lines ⇒ *Friction welded joint for ATF cooling line faulty* or ⇒ *Friction welded joint for ATF cooling line PHEV faulty*.

In the case of oil leakage on the friction welded joint (production fault), replace the relevant ATF cooling line; see ⇒ *Technical Information 'Replacing ATF cooling line'*.



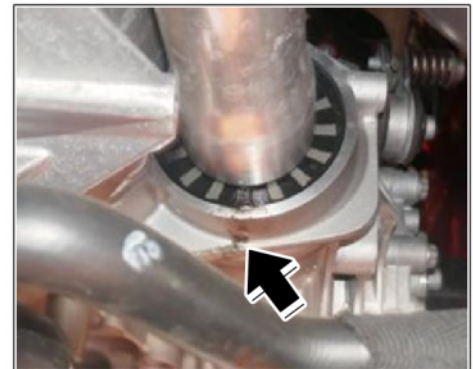
*Friction welded joint for ATF cooling line faulty*



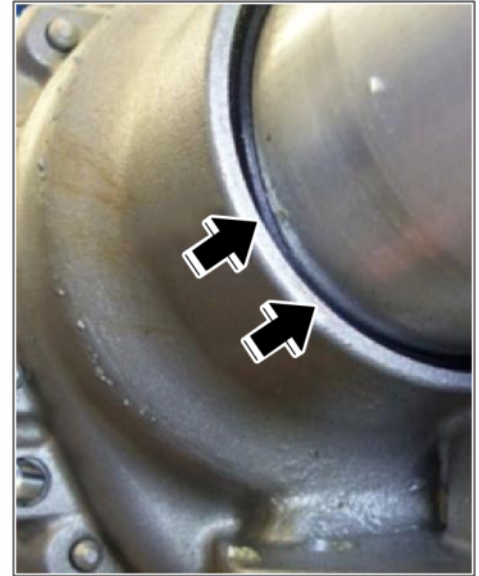
*Friction welded joint for ATF cooling line PHEV faulty*

- 4 Check for oil leakage around the protective tube for drive shaft ⇒ *Drive-shaft sealing ring damaged (front protective tube)* and ⇒ *Drive-shaft sealing ring damaged (rear protective tube)*.

In the case of damage, replace both drive-shaft sealing rings; see ⇒ *Technical Information 'Replacing drive shaft sealing ring'*.



*Drive-shaft sealing ring damaged (front protective tube)*



*Drive-shaft sealing ring damaged  
(rear protective tube)*

- 5 Check for oil leakage around the output shaft to the transfer box ⇒ *Oil migration* and ⇒ *Oil leakage on output-shaft sealing ring*.
  - 5.1 In the case of damage, replace the output shaft sealing ring; see ⇒ *Technical Information 'Replacing output shaft sealing ring'*.
  - 5.2 In the case of damage, replace the transfer-gear sealing ring; see ⇒ *Technical Information 'Transmission symptom - Oil leakage on transfer box: Observe specified procedure (SY 206/20)'*.



*Oil migration*



*Oil leakage on output-shaft sealing ring*

### Replacing sealing ring on ATF cooling line

Work Procedure: 1 Replace sealing ring on ATF cooling line at the flange; see ⇒ *Workshop Manual '386219 Removing and installing ATF cooling line'*.

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

Parts Info:

#### Required parts:

Part No.	Designation – Point of use	Number
N 90666003	⇒ O-ring – Line for ATF cooling	2 pieces
PAB39800803	⇒ Cover – ATF pan	1 piece
<b>or</b>		
PAB398008B	⇒ Cover – ATF pan	1 piece
PAF00072900	⇒ M8 x 20 hexagon socket head bolt – Front section of front underbody cover	3 pieces
<b>or</b>		
N 10082912	⇒ Hexagon screw (instrument cluster), self-locking M6 x 16 – Engine protection	3 pieces
PAF82595100	⇒ Screw – Center underbody cover	2 pieces
PAB32154900	⇒ 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
0004321054	⇒ Transmission oil gear wheel set - Checking and topping up ATF	20-liter/ 5.28 gal container 1)

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

Labor position:

APOS	Labour operation	I No.
37350100	Checking automatic transmission	
38621900	Removing and installing lines for ATF cooling	
37023550	Checking and topping up ATF	
37023555	Checking and topping up ATF	

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encryption:

Location (FES5)	38620	ATF cooling line
Damage type (SA4)	5043	Oil leak

References: ⇒ *Workshop Manual '386219 Removing and installing line for ATF cooling'*  
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*  
 ⇒ *Technical Information '370235 Transmission symptom - Oil leakage on transfer box: Observe specified procedure (SY 206/20)'*

### Replacing ATF cooling line

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

## Parts Info:

**Required parts:**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
PAB39800803	⇒ Cover – ATF pan	1 piece
<b>or</b>		
PAB398008B	⇒ Cover – ATF pan	1 piece
PAF00072900	⇒ M8 x 20 hexagon socket head bolt – Front section of front underbody cover	3 pieces
<b>or</b>		
N 10082912	⇒ Hexagon screw (instrument cluster), self-locking M6 x 16 – Engine protection	3 pieces
PAF82595100	⇒ Screw – Center underbody cover	2 pieces
PAB32154900	⇒ Screw plug – Checking and topping up ATF	1 piece

**Additional parts required (V6 mono and biturbo without PHEV):**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
PAB317818	⇒ Oil pressure line – ATF cooling	1 piece
<b>or</b>		
PAB317817	⇒ Oil pressure line – ATF cooling	1 piece
<b>or</b>		
PAB317801C	⇒ Oil pressure line – ATF cooling	1 piece

**Additional parts required (V6 monoturbo and R4 in-line engine PHEV):**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
PAB317801B	⇒ Oil pressure line – ATF cooling	1 piece

**Additional parts required (V8 biturbo without PHEV):**

Part No.	Designation – Point of use	Number
PAB317818A	⇒ Oil pressure line – ATF cooling	1 piece
<b>or</b>		
PAB317817A	⇒ Oil pressure line – ATF cooling	1 piece
<b>or</b>		
PAB317818	⇒ Oil pressure line – ATF cooling	1 piece
<b>or</b>		
PAB317817	⇒ Oil pressure line – ATF cooling	1 piece

**Additional parts required (V8 biturbo PHEV):**

Part No.	Designation – Point of use	Number
9Y0317817A	⇒ Oil pressure line – ATF cooling	1 piece
<b>or</b>		
9Y0317818A	⇒ Oil pressure line – ATF cooling	1 piece

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

Part No.	Designation – Point of use	Quantity
0004321054	⇒ Transmission oil gear wheel set – Checking and topping up ATF	20-liter/ 5.28 gal container 1)

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

Labor position:

APOS	Labor operation	I No.
37350100	Checking automatic transmission	
38621900	Removing and installing lines for ATF cooling	

APOS	Labor operation	I No.
37023550	Checking and topping up ATF	
37023555	Checking and topping up ATF	

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encryption:

<b>Location (FES5)</b>	38620	ATF cooling line
<b>Damage type (SA4)</b>	1511	Break

References: ⇒ *Workshop Manual '386219 Removing and installing line for ATF cooling'*  
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*  
 ⇒ *Technical Information '370235 Transmission symptom - Oil leakage on transfer box: Observe specified procedure (SY 206/20)'*

## Replacing automatic transmission

- Work Procedure: 1 Replace automatic transmission; see ⇒ *Workshop Manual '373555 Replacing automatic transmission'*.
- 2 Check and top up ATF; see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info:	Part No.	Designation - Point of use	Number
	OFxxx <sup>1)</sup>	⇒ 8-speed automatic transmission	1 piece
	PAF911296	⇒ 12-point bolt - Automatic transmission	4 pieces
	PAF911295	⇒ 12-point bolt - Automatic transmission	3 pieces
	N 91129801	⇒ 12-point bolt - Automatic transmission	1 piece
	N 91150701	⇒ 12-point bolt - Automatic transmission	2 pieces
	N 91153201	⇒ 12-point bolt - Automatic transmission	1 piece
	N 91129201	⇒ 12-point bolt - Automatic transmission	1 piece

PAF911432	⇒ 12-point bolt – Dual mass flywheel	6 pieces
N 91239302	⇒ 12-point bolt, M10 x 65 – Transfer gear	6 pieces
N 10314506	⇒ Hexagon-head bolt – Starter	1 piece
	<b>or</b>	
PAF911472	⇒ Hexagon flange bolt – Starter	1 piece
PAF911296	⇒ 12-point bolt – Starter	1 piece
PAF91237901	⇒ Hexagon-head bolt – Front-axle carrier	4 pieces
PAF91184301	⇒ Hexagon-head bolt – Front-axle carrier	4 pieces
PAF007028	⇒ 12-point bolt – Lower trailing arm	2 pieces
PAF001987	⇒ Hexagon nut, self-locking with washer – Lower trailing arm	4 pieces
N 10272202	⇒ Hexagon-head bolt (combination) – Lower trailing arm	2 pieces
N 10106402	⇒ Hexagon collar nut, self-locking – Lower trailing arm	2 pieces
N 10784702	⇒ Hexagon flange bolt – Lower trailing arm	2 pieces
N 10640501	⇒ Hexagon-head bolt – Spring strut fork to lower trailing arm	2 pieces
PAF911511	⇒ Hexagon-head bolt (combination) – Front-axle support	4 pieces
PAF005372	⇒ Cheese head bolt with multiple-tooth head – Front-axle support	2 pieces
N 10518405	⇒ Cheese head bolt with multiple-tooth head – Universal joint	1 piece
WHT006662	⇒ Hexagon-head bolt (combination) – Power steering gear	2 pieces
WHT002305	⇒ Square nut – Power steering gear	2 pieces

WHT006151	⇒ Hexagon collar nut, self-locking – Tie-rod ball	2 pieces
9A700837900	⇒ Tie-wrap – Brake disc air guide	4 pieces
WHT006917	⇒ 12-point bolt – Connecting link for anti-roll bar	2 pieces
	<b>or</b>	
PAF007423	⇒ 12-point bolt – Connecting link for anti-roll bar (PDCC)	2 pieces
PAF102861	⇒ Hexagon nut, self-locking – Connecting link for anti-roll bar	2 pieces
	<b>or</b>	
PAF015081	⇒ Hexagon nut – Connecting link for anti-roll bar (PDCC)	2 pieces
95557374903	⇒ O-ring, 23.8 x 2.4 – Refrigerant line between compressor and evaporator	1 piece
95557374901	⇒ O-ring, 11.0 x 2.5 – Refrigerant line between compressor and condenser	1 piece
	<b>or</b>	
95557374902 <sup>2)</sup>	⇒ O-ring 13.7x2.5-N – Refrigerant line between compressor and condenser	1 piece
PAB121809 <sup>2)</sup>	⇒ Seal – Reservoir	1 piece
9A725372510	⇒ Clamp – Primary catalytic converter/particle filter	1 piece
9A725311507	⇒ Seal – Primary catalytic converter/particle filter	1 piece
PAF00072900	⇒ M8 x 20 hexagon socket head bolt – Front section of front underbody cover	3 pieces
	<b>or</b>	
N 10082912	⇒ Hexagon screw (instrument cluster), self-locking M6 x 16 – Engine protection	3 pieces
PAF82595100	⇒ Screw – Center underbody cover	2 pieces
PAF107722	⇒ Hose clamp 36.1 x 9 x 0.6 – Cardan shaft	1 piece
	<b>or</b>	

PAF10848901	⇒ Hose clamp 40 x 9 x 0.9 – Cardan shaft	1 piece
PAF107599	⇒ Cheese head bolt with multiple-tooth head – Rear cardan shaft	6 pieces
95534919121	⇒ Plate – Rear cardan shaft	3 pieces
N 91175601	⇒ Cylinder fit bolt with multiple-tooth head, M12 x 1.5 x 22 – Front axle drive shaft	12 pieces
	<b>or</b>	
PAF904411	⇒ Cylinder fit bolt with multiple-tooth head, M10 x 20 – Front axle drive shaft	12 pieces
PAF91203204	⇒ Round head screw – Protective plate for transfer case	2 pieces
PAF004571	⇒ Collared cheese head bolt with hexagon socket head, M14 x 1.5 x 115 – Fixed calliper	4 pieces
	<b>or</b>	
PAF004572	⇒ Collared cheese head bolt with hexagon socket head, M14 x 1.5 x 135 – Fixed calliper	4 pieces
	<b>or</b>	
PAF004571	⇒ Collared cheese head bolt with hexagon socket head, M14 x 1.5 x 135 – Fixed calliper	4 pieces
PAC409131	⇒ Cover for final drive	1 piece
01V409133A	⇒ O-ring – Differential gear cover	1 piece
PAC409400	⇒ Radial shaft seal – Flanged shaft	1 piece
PAC409399	⇒ Radial shaft seal – Flanged shaft	1 piece
PAC409297	⇒ Circlip – Flanged shaft	1 piece
PAC409297A	⇒ Circlip – Flanged shaft	1 piece
PAB39800803	⇒ Screw plug – Checking and topping up ATF	1 piece

	<b>or</b>	
PAB398008B	⇒ Cover – ATF pan	1 piece
PAB32154900	⇒ Screw plug – Checking and topping up ATF	1 piece
N 10665001 <sup>2)</sup>	⇒ Countersunk screw with internal serration – High-voltage line for power electronics	3 pieces
N 91069601 <sup>2)</sup>	⇒ Internal hexagon round-head countersunk screw – High-voltage line for power electronics	3 pieces
PAB971797E <sup>2)</sup>	⇒ Transmission housing cover	1 piece
N 10671702 <sup>2)</sup>	⇒ Hexagon-head bolt (combination) – Transmission housing cover	1 piece
N 91069601 <sup>2)</sup>	⇒ Internal hexagon round-head countersunk screw – Transmission housing cover	4 pieces

<sup>1)</sup> Part number varies depending on transmission type

<sup>2)</sup> Only for vehicles with hybrid drive

**Vehicles with hybrid drive from Model Year 24: Additional parts required if the high-voltage line must be disconnected from the drive motor.**

PAB971054	⇒ High-voltage line set (V6 monoturbo) – Drive motor	1 piece
	<b>or</b>	
PAB971054A	⇒ High-voltage line set (V8 biturbo) – Drive motor	1 piece
	<b>or</b>	
PAB971054B	⇒ High-voltage line set (R4 in-line engine PHEV) – Drive motor	1 piece

**Additional parts required (R4 in-line engine PHEV):**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
PAB25311500	⇒ Seal – Primary catalytic converter/particle filter	1 piece
	<b>or</b>	
PAB253115D	⇒ Seal – Particle filter	1 piece

PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter	3 pieces
	<b>or</b>	
PAF911308	⇒ Hexagon collar nut, self-locking – Particle filter	6 pieces
PAB111220A	⇒ Clamping sleeve – Primary catalytic converter/particle filter	1 piece

**Additional parts required (V6 monoturbo):**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
9A725372510	⇒ Clamp – Primary catalytic converter/particle filter	1 piece
	<b>or</b>	
PAB253725B	⇒ Clamp – Primary catalytic converter/particle filter	1 piece
9A725311507	⇒ Seal – Primary catalytic converter/particle filter	1 piece
PAB25311520	⇒ Seal – Primary catalytic converter	1 piece
	<b>or</b>	
PAB253115D	⇒ Seal – Particle filter	2 pieces
	<b>or</b>	
PAB253725A	⇒ Clamp – Particle filter	2 pieces
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter	3 pieces
	<b>or</b>	
PAF911308	⇒ Hexagon collar nut, self-locking – Particle filter	6 pieces
	<b>or</b>	
PAB253115B	⇒ Seal – Particle filter	2 pieces
PAB111220A	⇒ Clamping sleeve – Exhaust system	1 piece

	<b>or</b>	
PAB111220A	⇒ Clamping sleeve – Exhaust system	2 pieces
	<b>or</b>	
PAB25314120	⇒ Clamping sleeve – Exhaust system	1 piece

**Additional parts required (V6 biturbo):**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
PAB25372500	⇒ Clamp – Primary catalytic converter/particle filter	2 pieces
9A725311500	⇒ Seal – Primary catalytic converter/particle filter	2 pieces
PAB253115D	⇒ Seal – Primary catalytic converter/particle filter	2 pieces
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter/particle filter	6 pieces
PAB111220A	⇒ Clamping sleeve – Exhaust system	2 pieces

**Additional parts required (V8 biturbo):**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
PAB25372500	⇒ Clamp – Primary catalytic converter/particle filter	2 pieces
9A725311500	⇒ Seal – Primary catalytic converter/particle filter	2 pieces
PAB25311500	⇒ Seal – Primary catalytic converter/particle filter	2 pieces
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter/particle filter	6 pieces
9A725314100	⇒ Clamping sleeve – Exhaust system	2 pieces

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

Part No.	Designation – Point of use	Quantity
00004330537	⇒ Grease – Oxygen sensors	60-gram/ 2.12 oz tube 1)
00004330515	⇒ Coolant additive	20-liter/ 5.28 gal container 2)
0004321054	⇒ Transmission oil gear wheel set – Checking and topping up ATF	20-liter/ 5.28 gal container 3)
9A757390010	⇒ Refrigerant compressor oil 1234yf – Air-conditioning system	As required
...	⇒ Refrigerant 1234yf – Air-conditioning system	As required

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

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

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

Labor position:

APOS	Labor operation	I No.
37350100	Checking automatic transmission	
37355590	Replacing automatic transmission	
37023550	Checking and topping up ATF	
37023555	Checking and topping up ATF	

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Location (FES5)	37350	Automatic transmission
Damage type (SA4)	5000	Leaks

References: ⇒ *Workshop Manual '373555 Replacing automatic transmission'*

⇒ Workshop Manual '370235 Checking and topping up ATF'

⇒ Technical Information '370235 Transmission symptom - Oil leakage on transfer box: Observe specified procedure (SY 206/20)'

## Replacing drive shaft sealing ring

- Work Procedure: 1 Replace drive shaft sealing ring (rear protective tube). ⇒ Workshop Manual '393255 Replacing drive shaft sealing ring (rear protective tube)'
- 2 Replacing drive shaft sealing ring (front protective tube). ⇒ Workshop Manual '392855 Replacing drive shaft sealing ring (front protective tube)'
- 3 Checking and topping up ATF. ⇒ Workshop Manual '370235 Checking and topping up ATF'
- 4 Checking and topping up oil for all-wheel final drive (front axle). ⇒ Workshop Manual '399035 Checking and topping up oil for all-wheel final drive'

Parts Info:



### Information

**In addition** to the parts listed in the table below, all parts specified **in the section** ⇒ Technical Information '399035 Replace automatic transmission' **are required to replace the drive shaft sealing ring.**

Part No.	Designation – Point of use	Number
PAB398001C <sup>1)</sup>	⇒ Set of seals	1 piece
	<b>or</b>	
PAB398001D <sup>1)</sup>	⇒ Set of seals	1 piece
	<b>or</b>	
PAB398004A <sup>2)</sup>	⇒ Installation kit for body transmission and hybrid module	1 piece
	<b>or</b>	
PAB398008 <sup>2)</sup>	⇒ Installation kit for body transmission and hybrid module	1 piece
PAB398189 <sup>1)</sup>	⇒ Radial shaft seal – Converter housing	1 piece
9A7398001 <sup>1)</sup>	⇒ O-ring – Drive shaft	1 piece
9A7398135 <sup>1)</sup>	⇒ 1 set of internal hexagon - flat-head screws – Screw connection for converter housing	1 piece
PAB39800810	⇒ Screw plug (oil filler opening), M18 x 1.5 – Front-axle final drive	1 piece

<sup>1)</sup> Not for vehicles with hybrid drive

<sup>2)</sup> Only for vehicles with hybrid drive

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

Part No.	Designation – Point of use	Quantity
00004330537	⇒ Grease – Oxygen sensors	60-gram/ 2.12 oz tube <sup>1)</sup>
00004330515	⇒ Coolant additive	20-liter/ 5.28 gal container <sup>2)</sup>
00004321054	⇒ Transmission oil gear wheel set – Checking and topping up ATF	1-liter/ 33.8 fl oz container
00004321055	⇒ Transmission oil for front-axle final drive – All-wheel final drive	1-liter/ 33.8 fl oz container
9A757390010	⇒ Refrigerant compressor oil 1234yf – Air-conditioning system	As required
....	⇒ Refrigerant 1234yf – Air-conditioning system	As required

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

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

Labor position:

APOS	Labor operation	I No.
37350100	Checking automatic transmission	
39285550	Replacing drive shaft sealing ring	
39325550	Replacing drive shaft sealing ring	

APOS	Labor operation	I No.
39285565	Replacing drive shaft sealing ring (hybrid)	
39325565	Replacing drive shaft sealing ring (hybrid)	
37023550	Checking and topping up ATF	
37023555	Checking and topping up ATF	
39903553	Check and top up oil for final drive	

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encryption:

<b>Location (FES5)</b>	39280	Sealing ring on drive shaft for
<b>Damage type (SA4)</b>	5041	oil/grease leaks

References: ⇒ *Workshop Manual '392855 Replacing drive shaft sealing ring (front protective tube)'*  
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*  
 ⇒ *Technical Information '370235 Transmission symptom - Oil leakage on transfer box: Observe specified procedure (SY 206/20)'*

## Replacing ATF pan

Work Procedure: 1 Replace ATF pan; see ⇒ *Workshop Manual '375519 Removing and installing ATF pan'*.  
 2 Check and top up ATF; see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info: **Required parts:**

Part No.	Designation – Point of use	Number
PAB398009	⇒ Transmission oil pan with seal	1 piece
	<b>or</b>	
PAB39804703	⇒ Transmission oil pan with seal	1 piece
PAF911511	⇒ Hexagon-head bolt (combination) – Front-axle support	4 pieces
PAF005372	⇒ Cheese head bolt with multiple-tooth head – Front-axle support	2 pieces
PAF00072900	⇒ Hexagon socket head bolt – Front underbody cover	3 pieces
	<b>or</b>	

N 10082912	⇒ Hexagon screw (instrument cluster), self-locking M6 x 16 – Engine protection	3 pieces
PAF82595100	⇒ Screw – Center underbody cover	2 pieces

**Vehicles with hybrid drive from Model Year 24: Additional parts required if the high-voltage line must be disconnected from the drive motor.**

PAB971054	⇒ High-voltage line set (V6 monoturbo) – Drive motor	1 piece
<b>or</b>		
PAB971054A	⇒ High-voltage line set (V8 biturbo) – Drive motor	1 piece
<b>or</b>		
PAB971054B	⇒ High-voltage line set (R4 in-line engine PHEV) – Drive motor	1 piece
PAB971797E	⇒ Transmission housing cover	1 piece
N 10671702	⇒ Hexagon-head bolt (combination) – Transmission housing cover	1 piece
N 91069601	⇒ Internal hexagon round-head countersunk screw – Transmission housing cover	4 pieces
N 10665001	⇒ Countersunk screw with internal serration – High-voltage line for power electronics	3 pieces
N 91069601	⇒ Internal hexagon round-head countersunk screw – High-voltage line for power electronics	3 pieces

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

Part No.	Designation – Point of use	Quantity
0004321054	⇒ Transmission oil gear wheel set – Checking and topping up ATF	20-liter/ 5.28 gal container 1)

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

Labor position:

APOS	Labor operation	I No.
37350100	Checking automatic transmission	
37551900	Removing and installing ATF pan	
37023550	Checking and topping up ATF	
37023555	Checking and topping up ATF	

PCSS

encryption:

Location (FES5)	37550	ATF pan
Damage type (SA4)	1521	Crack/tear

References: ⇒ *Workshop Manual '375519 Removing and installing ATF pan'*  
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*  
 ⇒ *Technical Information '370235 Transmission symptom - Oil leakage on transfer box: Observe specified procedure (SY 206/20)'*

## Replacing output-shaft seal

Work Procedure: 1 Replace output-shaft seal; see ⇒ *Workshop Manual '387055 Replacing output-shaft seal'*.

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

Parts Info: **Required parts:**

Part No.	Designation – Point of use	Number
PAB398189A	⇒ Radial shaft seal – Output shaft	1 piece
9A7398001E	⇒ Set of seals – Output shaft	1 piece
N 91239302	⇒ 12-point flange bolt – Final drive housing	6 pieces
PAF107722	⇒ Hose clamp 36.1 x 9 x 0.6 – Cardan shaft	1 piece

**or**

PAF10848901	⇒ Hose clamp 40 x 9 x 0.9 – Cardan shaft	1 piece
PAF107599	⇒ Cheese head bolt with multiple-tooth head – Rear cardan shaft	6 pieces
95534919121	⇒ Plate – Rear cardan shaft	3 pieces
PAF91203204	⇒ Round head screw – Protective plate for transfer case	2 pieces
PAB39800810	⇒ Screw plug (oil filler opening), M18 x 1.5 – Final drive housing	1 piece
PAF00072900	⇒ M8 x 20 hexagon socket head bolt – Front section of front underbody cover	3 pieces
<b>or</b>		
N 10082912	⇒ Hexagon screw (instrument cluster), self-locking M6 x 16 – Engine protection	3 pieces
N 10518405 <sup>1)</sup>	⇒ Cheese head bolt with multiple-tooth head – Universal joint	1 piece

<sup>1)</sup> Only for vehicles with particle filter

#### Additional parts required (R4 in-line engine PHEV):

Part No.	Designation – Point of use	Number
PAB25311500	⇒ Seal – Primary catalytic converter	1 piece
<b>or</b>		
PAB253115D	⇒ Seal – Particle filter	1 piece
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter	3 pieces
PAB111220A	⇒ Clamping sleeve – Primary catalytic converter/particle filter	1 piece

**Additional parts required (V6 monoturbo):**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
PAB25311520	⇒ Seal – Primary catalytic converter	1 piece
	<b>or</b>	
PAB253115D	⇒ Seal – Particle filter	2 pieces
	<b>or</b>	
PAB253725A	⇒ Clamp – Particle filter	2 pieces
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter	3 pieces
	<b>or</b>	
PAF911308	⇒ Hexagon collar nut, self-locking – Particle filter	6 pieces
	<b>or</b>	
PAB253115B	⇒ Seal – Particle filter	2 pieces
PAB25314120	⇒ Clamping sleeve – Primary catalytic converter	1 piece
	<b>or</b>	
PAB111220A	⇒ Clamping sleeve – Particle filter	2 pieces

**Additional parts required (V6 and V8 biturbo):**

<b>Part No.</b>	<b>Designation – Point of use</b>	<b>Number</b>
PAB25311500	⇒ Seal – Primary catalytic converter/particle filter	2 pieces
	<b>or</b>	
PAB253115D	⇒ Seal – Primary catalytic converter/particle filter	2 pieces
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter/particle filter	6 pieces
9A725314100	⇒ Clamping sleeve – Primary catalytic converter/particle filter	2 pieces

or

PAB111220A ⇒ Clamping sleeve 2 pieces  
– Primary catalytic converter/particle filter

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

Part No.	Designation – Point of use	Quantity
00004321030	⇒ Grease – Transfer gear	20-gram/ 0.7 oz tube 1)
00004321055	⇒ Transmission oil for final drive housing – All-wheel final drive	1-liter/ 33.8 fl oz container

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

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

Labor position:

APOS	Labor operation	I No.
37350100	Checking automatic transmission	
38705550	Replacing output-shaft seal	
37023550	Checking and topping up ATF	
37023555	Checking and topping up ATF	

PCSS  
encryption:

Location (FES5)	38620	ATF cooling line
Damage type (SA4)	1511	Break

References: ⇒ *Workshop Manual '387055 Replacing output-shaft seal'*  
⇒ *Workshop Manual '370235 Checking and topping up ATF'*  
⇒ *Technical Information '370235 Transmission symptom - Oil leakage on transfer box: Observe specified procedure (SY 206/20)'*

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