

Transmission Symptom - Oil Leaks on Automatic Transmission: Observe Specified Procedure (SY 205/20)

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

Model Year: **As of 2018**

Concerns: **Automatic transmission**

Symptom: Oil leaks are 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 leak". 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 leaks 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 PQIS 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.

- 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 leak:
 - The oil leak is located on the transfer box, continue with \Rightarrow *Technical Information 'Transmission symptom - Oil leaks on transfer box: Observe specified procedure (SY 206/20)'*
 - The oil leak is located on the automatic transmission, continue with \Rightarrow *Technical Information 'Oil leaks on automatic transmission'*.
 - The oil leak cannot be clearly identified, continue with \Rightarrow *Technical Information 'Oil leaks on automatic transmission'*.
- 7 Produce photo documentation of the leakage point located using SpotCheck.
- 8 Attach documentation to PQIS line.



Oil migration

Oil leaks 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 leaks 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



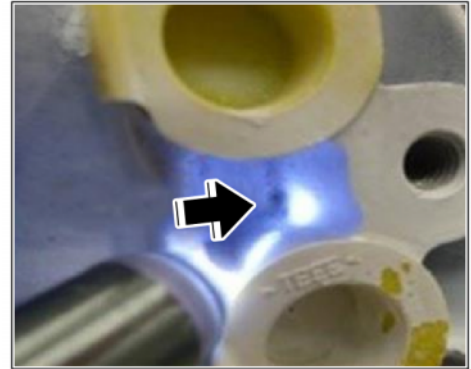
Information

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

- 2 Check for oil leaks on the flange of the ATF cooling line ⇒ *Flange leaking* or ⇒ *Transmission housing porous*.
 - 2.1 In the case of oil leaks on the flange, replace both sealing rings, see ⇒ *Technical Information 'Replacing sealing ring on ATF cooling line'*.
 - 2.2 In the case of oil leaks 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 leaks 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 leaks on the friction welded joint (production fault), replace the relevant ATF cooling line, see ⇒ *Technical Information 'Replacing ATF cooling line'*.



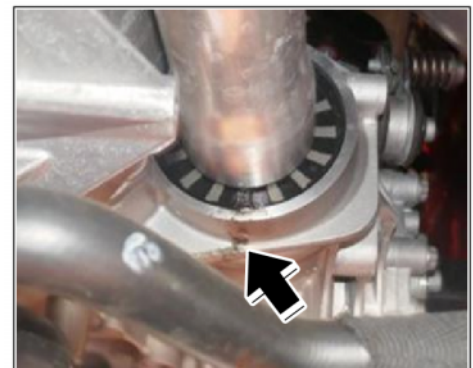
Friction welded joint for ATF cooling line faulty



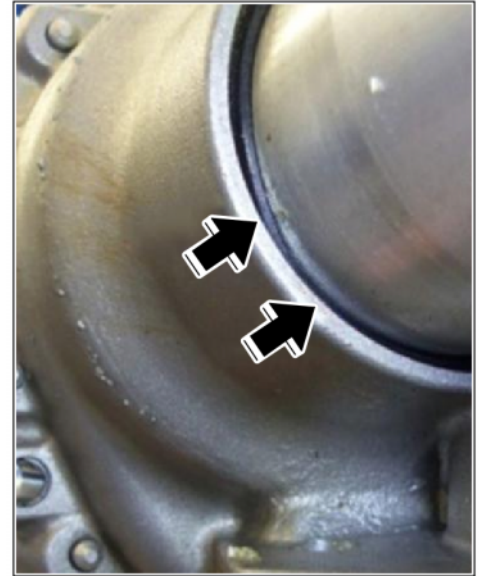
Friction welded joint for ATF cooling line PHEV faulty

- 4 Check for oil leaks 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 leaks around the output shaft to the transfer box ⇒ *Oil migration* and ⇒ *Oil leak 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 leaks on transfer box: Observe specified procedure (SY 206/20)'*



Oil migration



Oil leak 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:

Parts required:

Part No.	Designation – Location	Qty.
N 90666003	⇒ O-ring – ATF cooling line	2 ea.
PAF82595100	⇒ Screw – Center underbody cover	2 ea.
PAB39800803	⇒ Cover – ATF pan	1 ea.
or		
PAB398008B	⇒ Cover (transmission number A2901, A3001, A4002, A20P1, A30P1) – ATF pan	1 ea.
PAF00072900	⇒ Hexagon socket head bolt – Front underbody cover	3 ea.
PAB32154900	⇒ Screw plug – Checking and topping up ATF	1 ea.

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

Part No.	Designation – Use	Qty.
0004321054	⇒ Transmission oil (gearwheel 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.

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.
37350100	Checking automatic transmission	
38621900		
37023555	Checking and topping up ATF	

PQIS coding:

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 leaks 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: **Parts required:**

Part No.	Designation – Location	Qty.
PAF82595100	⇒ Screw – Center underbody cover	2 ea.
PAB39800803	⇒ Cover – ATF pan	1 ea.

	or	
PAB398008B	⇒ Cover (transmission number A2901, A3001, A4002, A20P1, A30P1) – ATF pan	1 ea.
PAF00072900	⇒ Hexagon socket head bolt – Front underbody cover	3 ea.
PAB32154900	⇒ Screw plug – Checking and topping up ATF	1 ea.

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

Part No.	Designation – Location	Qty.
PAB31781800	⇒ Oil supply line – ATF cooling	1 ea.
	or	
PAB31781700	⇒ Oil return line – ATF cooling	1 ea.

Additional parts required (V6 monoturbo PHEV):

Part No.	Designation – Location	Qty.
PAB317801A	⇒ Oil pressure line – ATF cooling	1 ea.

Additional parts required (V8 biturbo without PHEV):

Part No.	Designation – Location	Qty.
PAB31781810	⇒ Oil supply line – ATF cooling	1 ea.
	or	
PAB31781710	⇒ Oil return line – ATF cooling	1 ea.

Additional parts required (V8 biturbo PHEV):

Part No.	Designation – Location	Qty.
9Y0317817	⇒ Oil pressure line – ATF cooling	1 ea.
or		
9Y0317818	⇒ Oil pressure line – ATF cooling	1 ea.

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

Part No.	Designation – Use	Qty.
0004321054	⇒ Transmission oil (gearwheel 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.

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.
37350100	Checking automatic transmission	
38621900		
37023555	Checking and topping up ATF	

PQIS coding:

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

References: ⇒ *Workshop Manual '386219 Removing and installing line for ATF cooling'*
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*
 ⇒ *Technical Information '370235 Transmission symptom - Oil leaks 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 – Use	Qty.
	0Fxxx ¹⁾	⇒ 8-speed automatic transmission	1 ea.
	PAF911296	⇒ 12-point socket – Automatic transmission	4 ea.
	N 91129801	⇒ 12-point socket – Automatic transmission	1 ea.
	N 91150701	⇒ 12-point socket – Automatic transmission	2 ea.
	N 91153201	⇒ 12-point socket – Automatic transmission	1 ea.
	N 91129201	⇒ 12-point socket – Automatic transmission	1 ea.
	N 10314506	⇒ Hexagon flange bolt – Starter	1 ea.
	PAF911296	⇒ 12-point socket – Starter	1 ea.
	PAF911511	⇒ Hexagon-head bolt (combination) – Front-axle support	4 ea.
	WHT005372	⇒ Cheese head bolt with multiple-tooth head – Front-axle support	2 ea.
	PAF00072900	⇒ Hexagon socket head bolt – Front underbody cover	3 ea.
	N 10518405	⇒ Cheese head bolt with multiple-tooth head – Universal joint	1 ea.
	WHT006662	⇒ Hexagon-head bolt (combination) – Power-steering gear	2 ea.
	WHT002305	⇒ Square nut – Power-steering gear	2 ea.
	WHT006151	⇒ Hexagon collar nut, self-locking – Tie-rod ball	2 ea.
	9A700837900	⇒ Tie-wrap – Brake disc air guide	4 ea.
	WHT006917	⇒ 12-point socket – Connecting link for anti-roll bar	2 ea.

	or	
PAF007423	⇒ 12-point socket – Connecting link for PDCC anti-roll bar	2 ea.
PAF102861	⇒ Hexagon nut, self-locking – Connecting link for anti-roll bar	2 ea.
	or	
PAF015081	⇒ Hexagon nut – Connecting link for PDCC anti-roll bar.	2 ea.
9A725372510	⇒ Clamp – Primary catalytic converter / particle filter	1 ea.
9A725311507	⇒ Seal – Primary catalytic converter / particle filter	1 ea.
PAF82595100	⇒ Screw – Center underbody cover	2 ea.
PAF107722	⇒ Hose clamp – Rear cardan shaft	1 ea.
PAF107599	⇒ Cheese head bolt with multiple-tooth head – Rear cardan shaft	6 ea.
95534919121	⇒ Plate – Rear Cardan shaft	3 ea.
N 91175601	⇒ Cylinder install bolt with multiple-tooth head – Front-axle drive shaft	12 ea.
PAF82595100	⇒ Screw – Center underbody cover	2 ea.
PAB32154900	⇒ Screw plug – Checking and topping up ATF	1 ea.

¹⁾ Part number varies depending on transmission type

Additional parts required (V6 monoturbo):

Part No.	Designation – Location	Qty.
9A725372510	⇒ Clamp – Primary catalytic converter/particle filter	1 ea.
9A725311507	⇒ Seal – Primary catalytic converter/particle filter	1 ea.

PAB25311520	⇒ Seal – Primary catalytic converter	1 ea.
or		
PAB253115	⇒ Seal – Particle filter	2 ea.
N 91130802	⇒ Hexagon collar nut, self-locking – Primary catalytic converter	3 ea.
or		
N 91130802	⇒ Hexagon collar nut, self-locking – Particle filter	6 ea.
N 10665001 ¹⁾	⇒ Countersunk screw with internal serration – High-voltage line for power electronics	3 ea.
N 91069601 ¹⁾	⇒ Internal hexagon round-head countersunk screw – High-voltage line for power electronics	3 ea.

¹⁾ Only for vehicles with hybrid drive

Additional parts required (V6 biturbo):

Part No.	Designation – Location	Qty.
PAB25372500	⇒ Clamp – Primary catalytic converter/particle filter	2 ea.
9A725311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.
PAB25311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter/particle filter	6 ea.

Additional parts required (V8 biturbo):

Part No.	Designation – Location	Qty.
PAB25372500	⇒ Clamp – Primary catalytic converter/particle filter	2 ea.
9A725311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.

PAB25311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter/particle filter	6 ea.
PAF91237901	⇒ Hexagon-head bolt – Front-axle carrier	4 ea.
PAF91184301	⇒ Hexagon-head bolt – Front-axle carrier	4 ea.
PAF007028	⇒ 12-point socket – Lower trailing arm	2 ea.
PAF001987	⇒ Hexagon nut, self-locking with washer – Lower trailing arm	4 ea.
N 10272202	⇒ Hexagon-head bolt (combination) – Lower trailing arm	2 ea.
N 10106402	⇒ Hexagon collar nut, self-locking – Lower trailing arm	2 ea.
N 10784702	⇒ Hexagon flange bolt – Lower trailing arm	2 ea.
PAF001987	⇒ Hexagon nut, self-locking with washer – Lower trailing arm	2 ea.
N 10665001 ¹⁾	⇒ Countersunk screw with internal serration – High-voltage line for power electronics	3 ea.
N 91069601 ¹⁾	⇒ Internal hexagon round-head countersunk screw – High-voltage line for power electronics	3 ea.

¹⁾ Only for vehicles with hybrid drive

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

Part No.	Designation – Use	Qty.
00004330537	⇒ Lubricating grease – Oxygen sensors	60 gram/ 2.12 oz tube tube ¹⁾
00004330515	⇒ Coolant additive	20 liter/ 5.28 gal container ²⁾
0004321054	⇒ Transmission oil (gearwheel set) – Checking and topping up ATF	20 liter/ 5.28 gal container ³⁾

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.

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.
37350100	Checking automatic transmission	
37355590	Replacing automatic transmission	
37023555	Checking and topping up ATF	

PQIS coding:

Location (FES5)	37350	Automatic transmission
Damage type (SA4)	3024	Porous

References: ⇒ *Workshop Manual '373555 Replacing automatic transmission'*
 ⇒ *Workshop Manual '370235 Checking and topping up ATF'*
 ⇒ *Technical Information '370235 Transmission symptom - Oil leaks 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), see ⇒ *Workshop Manual '393255 Replacing drive-shaft sealing ring (rear protective tube)'*.
- 2 Replace drive-shaft sealing ring (front protective tube), see ⇒ *Workshop Manual '392855 Replacing drive-shaft sealing ring (front protective tube)'*.
- 3 Check and top up ATF, see ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

Parts Info:

Part No.	Designation – Use	Qty.
PAB398001C	⇒ Set of seals	1 ea.
	or	
PAB398004A	⇒ Set of PHEV seals	1 ea.
PAB398189 ¹⁾	⇒ Radial shaft seal – Converter housing	1 ea.
9A7398001 ¹⁾	⇒ O-ring – Drive shaft	1 ea.
PAB971797C ²⁾	⇒ Transmission housing cover	1 ea.

N 10671702 ²⁾	⇒ Hexagon-head bolt (combination) – Transmission housing cover	1 ea.
N 91069601 ²⁾	⇒ Internal hexagon round-head countersunk screw – Transmission housing cover	4 ea.
PAF911296	⇒ 12-point socket – Automatic transmission	4 ea.
N 91129801	⇒ 12-point socket – Automatic transmission	1 ea.
N 91150701	⇒ 12-point socket – Automatic transmission	2 ea.
N 91153201	⇒ 12-point socket – Automatic transmission	1 ea.
N 91129201	⇒ 12-point socket – Automatic transmission	1 ea.
N 10314506	⇒ Hexagon flange bolt – Starter	1 ea.
PAF911296	⇒ 12-point socket – Starter	1 ea.
PAF911511	⇒ Hexagon-head bolt (combination) – Front-axle support	4 ea.
WHT005372	⇒ Cheese head bolt with multiple-tooth head – Front-axle support	2 ea.
PAF00072900	⇒ Hexagon socket head bolt – Front underbody cover	3 ea.
N 10518405	⇒ Cheese head bolt with multiple-tooth head – Universal joint	1 ea.
WHT006662	⇒ Hexagon-head bolt (combination) – Power-steering gear	2 ea.
WHT002305	⇒ Square nut – Power-steering gear	2 ea.
WHT006151	⇒ Hexagon collar nut, self-locking – Tie-rod ball	2 ea.
9A700837900	⇒ Tie-wrap – Brake disc air guide	4 ea.
WHT006917	⇒ 12-point socket – Connecting link for anti-roll bar	2 ea.

or

PAF007423	⇒ 12-point socket – Connecting link for PDCC anti-roll bar	2 ea.
PAF102861	⇒ Hexagon nut, self-locking – Connecting link for anti-roll bar	2 ea.
or		
PAF015081	⇒ Hexagon nut – Connecting link for PDCC anti-roll bar.	2 ea.
9A725372510	⇒ Clamp – Primary catalytic converter / particle filter	1 ea.
9A725311507	⇒ Seal – Primary catalytic converter / particle filter	1 ea.
PAF82595100	⇒ Screw – Center underbody cover	2 ea.
PAF107722	⇒ Hose clamp – Rear cardan shaft	1 ea.
PAF107599	⇒ Cheese head bolt with multiple-tooth head – Rear cardan shaft	6 ea.
95534919121	⇒ Plate – Rear Cardan shaft	3 ea.
N 91175601	⇒ Cylinder install bolt with multiple-tooth head – Front-axle drive shaft	12 ea.
PAF82595100	⇒ Screw – Center underbody cover	2 ea.
PAB32154900	⇒ Screw plug – Checking and topping up ATF	1 ea.

¹⁾ Not for vehicles with hybrid drive

²⁾ Only for vehicles with hybrid drive

Additional parts required (V6 monoturbo):

Part No.	Designation – Location	Qty.
9A725372510	⇒ Clamp – Primary catalytic converter/particle filter	1 ea.
9A725311507	⇒ Seal – Primary catalytic converter/particle filter	1 ea.

PAB25311520	⇒ Seal – Primary catalytic converter	1 ea.
or		
PAB253115	⇒ Seal – Particle filter	2 ea.
N 91130802	⇒ Hexagon collar nut, self-locking – Primary catalytic converter	3 ea.
or		
N 91130802	⇒ Hexagon collar nut, self-locking – Particle filter	6 ea.
N 10665001 ¹⁾	⇒ Countersunk screw with internal serration – High-voltage line for power electronics	3 ea.
N 91069601 ¹⁾	⇒ Internal hexagon round-head countersunk screw – High-voltage line for power electronics	3 ea.

¹⁾ Only for vehicles with hybrid drive

Additional parts required (V6 biturbo):

Part No.	Designation – Location	Qty.
PAB25372500	⇒ Clamp – Primary catalytic converter/particle filter	2 ea.
9A725311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.
PAB25311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter/particle filter	6 ea.

Additional parts required (V8 biturbo):

Part No.	Designation – Location	Qty.
PAB25372500	⇒ Clamp – Primary catalytic converter/particle filter	2 ea.
9A725311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.

PAB25311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.
PAF911308	⇒ Hexagon collar nut, self-locking – Primary catalytic converter/particle filter	6 ea.
PAF91237901	⇒ Hexagon-head bolt – Front-axle carrier	4 ea.
PAF91184301	⇒ Hexagon-head bolt – Front-axle carrier	4 ea.
PAF007028	⇒ 12-point socket – Lower trailing arm	2 ea.
PAF001987	⇒ Hexagon nut, self-locking with washer – Lower trailing arm	4 ea.
N 10272202	⇒ Hexagon-head bolt (combination) – Lower trailing arm	2 ea.
N 10106402	⇒ Hexagon collar nut, self-locking – Lower trailing arm	2 ea.
N 10784702	⇒ Hexagon flange bolt – Lower trailing arm	2 ea.
PAF001987	⇒ Hexagon nut, self-locking with washer – Lower trailing arm	2 ea.
N 10665001 ¹⁾	⇒ Countersunk screw with internal serration – High-voltage line for power electronics	3 ea.
N 91069601 ¹⁾	⇒ Internal hexagon round-head countersunk screw – High-voltage line for power electronics	3 ea.

¹⁾ Only for vehicles with hybrid drive

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

Part No.	Designation – Use	Qty.
00004330537	⇒ Lubricating grease – Oxygen sensors	60 gram/ 2.12 oz tube ¹⁾
00004330515	⇒ Coolant additive	20 liter/ 5.28 gal container ²⁾
0004321054	⇒ Transmission oil (gearwheel set) – Checking and topping up ATF	20 liter/ 5.28 gal container ³⁾

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.

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.
37350100	Checking automatic transmission	
39285550	Replacing drive-shaft sealing ring	
37023555	Checking and topping up ATF	

PQIS coding:

Location (FES5)	37350	Automatic transmission
Damage type (SA4)	9731	Other

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 leaks 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: **Parts required:**

Part No.	Designation - Location	Qty.
PAB398009	⇒ Transmission oil pan with seal	1 ea.
PAF911511	⇒ Hexagon-head bolt (combination) - Front-axle support	4 ea.
WHT005372	⇒ Cheese head bolt with multiple-tooth head - Front-axle support	2 ea.
PAF00072900	⇒ Hexagon socket head bolt - Front underbody cover	3 ea.
PAF82595100	⇒ Screw - Center underbody cover	2 ea.

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

Part No.	Designation – Use	Qty.
0004321054	⇒ Transmission oil (gearwheel 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.

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.
37350100	Checking automatic transmission	
37551900	Removing and installing ATF pan	
37023555	Checking and topping up ATF	

PQIS coding:

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 leaks 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: **Parts required:**

Part No.	Designation – Location	Qty.
9A7398189B	⇒ Radial shaft seal – Output shaft	1 ea.
9A7398001E	⇒ Set of seals – Output shaft	1 ea.

N 91239302	⇒ Bi-hexagonal flange screw – Input shaft	6 ea.
PAF107722	⇒ Hose clamp – Rear cardan shaft	1 ea.
PAF107599	⇒ Cheese head bolt with multiple-tooth head – Rear cardan shaft	6 ea.
95534919121	⇒ Plate – Rear Cardan shaft	3 ea.
PAF00072900	⇒ Hexagon socket head bolt – Front underbody cover	3 ea.
PAB32154900	⇒ Screw plug – Checking and topping up ATF	1 ea.

Additional parts required (V6 monoturbo):

Part No.	Designation – Location	Qty.
PAB25311520	⇒ Seal – Primary catalytic converter	1 ea.
or		
PAB253115	⇒ Seal – Particle filter	2 ea.
N 91130802	⇒ Hexagon collar nut, self-locking – Primary catalytic converter	3 ea.
or		
N 91130802	⇒ Hexagon collar nut, self-locking – Particle filter	6 ea.
N 10518405 ¹⁾	⇒ Cheese head bolt with multiple-tooth head – Universal joint	1 ea.

¹⁾ Only for vehicles with particle filter

Additional parts required (V6 and V8 biturbo):

Part No.	Designation – Location	Qty.
PAB25311500	⇒ Seal – Primary catalytic converter/particle filter	2 ea.
N 91130802	⇒ Hexagon collar nut, self-locking – Primary catalytic converter/particle filter	6 ea.

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

Part No.	Designation – Use	Qty.
00004321030	⇒ Lubricating grease – Transfer box	20 gram/ 0.7 oz tube 1)
0004321054	⇒ Transmission oil (gearwheel set) – 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.

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.
37350100	Checking automatic transmission	
38705550	Replacing output-shaft seal	
37023555	Checking and topping up ATF	

PQIS coding:

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

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

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