

**Oil Loss from the PDK Vent: Retrofitting Reservoir (69/22)**

Vehicle Type: **718 Cayman GTS 4.0 (982) / 718 Boxster GTS 4.0 (982) / 718 Cayman GT4 (982) / 718 Spyder (982)**

Model Year: **As of 2020 up to 2021**

Equipment: **PDK transmission (I-no. 250)**

Concerns: **PDK vent**

Information: Customers complain about oil loss from the double-clutch transmission (PDK) - particularly after sporty driving or after driving the vehicle on a race circuit. This can be caused by extreme centrifugal forces, which in unfavorable cases lead to oil leakage from the PDK vent.



*Oil loss from PDK vent*

Action: On vehicles from model year 2020 (L), retrofit the PDK vent reservoir. For instructions, see: ⇒ *Technical Information 'Retrofitting reservoir'*

On vehicles from model year 2021 (M), check PDK transmission number and either:

- Retrofit PDK vent reservoir
- Otherwise diagnose cause of oil loss

For instructions, see: ⇒ *Technical Information 'Checking double clutch transmission number'*



**Information**

In the current model year 2021 (M), double-clutch transmissions have been used in series production, which have an optimized shield on the PDK vent inside the transmission. This prevents oil from escaping as in the measure described here. Reservoir retrofitting is not intended for these vehicles.

The cause of oil loss must therefore be otherwise diagnosed on these vehicles.

**Required parts and materials as needed**

Parts Info:

**Required parts:**

<b>Part No.</b>	<b>Designation – Location</b>	<b>Number</b>
982300351	⇒ Reservoir – Double clutch transmission	1 piece
982321208	⇒ Retaining bracket – Reservoir	1 piece
982321343	⇒ Adapter – Reservoir	1 piece
N 10546403	⇒ Internal hexagon - flat-head screw – Reservoir	3 pieces
9A700846400	⇒ External hexagon round-head bolt M12 x 1.5 x 55 – Double clutch transmission	5 pieces
99907284001	⇒ Hexagon-head bolt M10 x 35 – Strut on body	2 pieces
99711111300	⇒ Seal – Exhaust flange	2 pieces
90091000303	⇒ Hexagon nut M8 – Exhaust flange	6 pieces
PAF013814	⇒ Sealing ring 14 x 18 – Coolant drain plug	2 pieces
N 10769401	⇒ Spring band clamp 13.5 x 8.4 – Differential pressure hoses	2 pieces
PAF007957	⇒ Hexagon self-clinching nut M10 – Connecting link for anti-roll bar	2 pieces
90037815901	⇒ Hexagon-head bolt M8 x 60 – Anti-roll bar mount	4 pieces
PAF105234	⇒ Cheese head bolt with multiple-tooth socket M10 x 52 – Drive shaft	12 pieces
9A740735700	⇒ Plate – Drive shaft	6 pieces
WHT007021	⇒ Hexagon nut, M22 x 1.5 – Drive shaft to wheel hub	2 pieces
PAF008528	⇒ Screw plug with sealing ring M18 x 1.5 – Transmission	1 piece

OPB115466A	⇒ Oil filter element – Engine oil	1 piece
OPB115499A	⇒ Sealing ring – Engine oil	1 piece

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

Part No.	Designation	Quantity
...	⇒ Engine oil	0.5 liter/ 16.9 fl oz
00004330516	⇒ Coolant additive	20-liter/ 5.28 gal container (approx. 0.5 liter/ 16.9 fl oz required per vehicle)
00004321012	⇒ Transmission oil	As required
00004320593	⇒ Klüber Syntheso Glep	As required

**Required tools**

- Tools:
- 9900 - 9900 - PIWIS Tester 3
  - VAS 6890 - Spring band clamp pliers
  - 9696 - 9696 - Filling device
  - VAS 6096/2 - Vacuum pump
  - VAS 6933 - Disassembly tool
  - V.A.G 1331/13 - Ring wrench insert, a/f 10
  - 9560 - 9560 - Press-out tool
  - 9204 - 9204 - Oil filter spanner
  - 3094 - 3094 - Hose clamp
  - VAS 6926 - Puller set
  - VAS 6563 - Manual metering pumps, Porsche set
  - Torque wrench, 6-50 Nm (4.5-37 ftlb), e.g. V.A.G 1331A - torque wrench, 6-50 Nm (4.5-37 ftlb)
  - Torque wrench, 40-200 Nm (30-148 ftlb), e.g. V.A.G 1332A - torque wrench, 40-200 Nm (30-148 ftlb)
  - Torque wrench, 150 - 800 Nm (111 - 592 ftlb.), e.g. V.A.G 1601 - Torque wrench, 150 - 800 Nm (111 - 592 ftlb.)

**Checking double clutch transmission number**



**Information**

The transmission number must only be checked on vehicles from model year 2021 (M).

- Work Procedure: 1 Remove strut plate.  
⇒ *Workshop Manual '421419 Removing and installing strut plate'*

- 2 Check double clutch transmission number.

#### 718 Cayman GT4 / 718 Spyder

Transmission number	Assessment	Action
CG2705002997	<b>Transmission number</b> on the vehicle's PDK is <b>lower</b> than the transmission number specified here.	Retrofit reservoir. Continue with: ⇒ <i>Technical Information '421419 Retrofitting reservoir'</i>
	<b>Transmission number</b> on the vehicle's PDK is the <b>same as or higher</b> than the transmission number specified here.	Continue oil loss fault finding otherwise.

#### 718 Cayman GTS 4.0 / 718 Boxster GTS 4.0

Transmission number	Assessment	Action
CG2702003107	<b>Transmission number</b> on the vehicle's PDK is <b>lower</b> than the transmission number specified here.	Retrofit reservoir. Continue with: ⇒ <i>Technical Information '421419 Retrofitting reservoir'</i>
	<b>Transmission number</b> on the vehicle's PDK is the <b>same as or higher</b> than the transmission number specified here.	Continue oil loss fault finding otherwise.

### Retrofitting reservoir

Work Procedure: 1 Remove the double-clutch transmission.

For instructions, see:

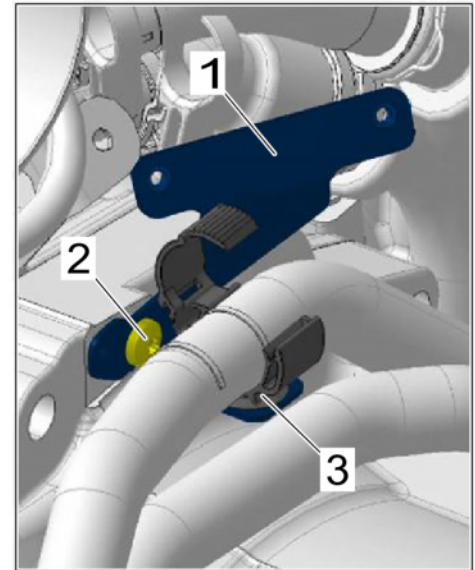
⇒ *Workshop Manual '373419 Removing and installing Porsche double-clutch transmission'*

- 2 Tighten retaining bracket ⇒ *Retaining bracket -1-* with screw ⇒ *Retaining bracket -2-* on double-clutch transmission.

#### Tightening torque 8 Nm (5.9 ftlb.)

Part No.	Designation	Number
982321208	Retaining bracket	1 piece
N 10546403	Internal hexagon - flat-head screw	1 piece

- 3 Clip coolant line clip ⇒ *Retaining bracket -3-* on the retaining bracket ⇒ *Retaining bracket -1-*.

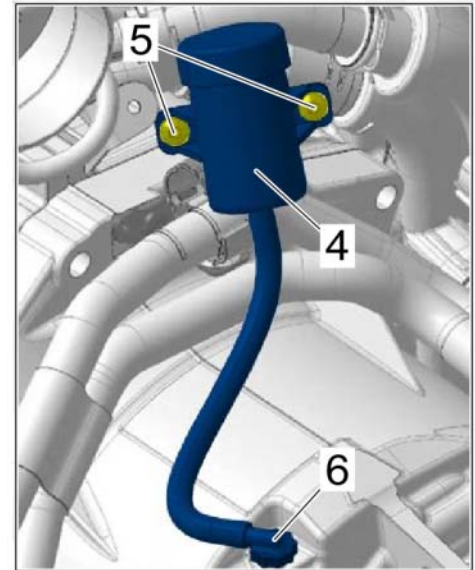


*Retaining bracket*

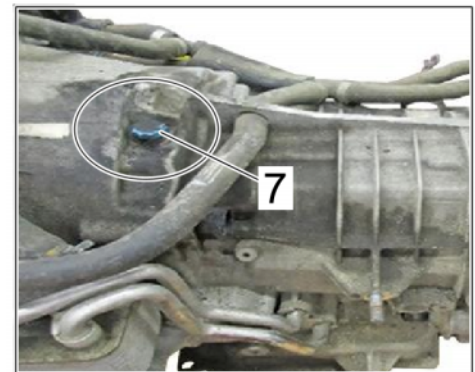
- 4 Fasten reservoir ⇒ *Reservoir -4-* to the retaining bracket ⇒ *Reservoir -5-* with screws ⇒ *Retaining bracket -1-* and tighten.

**Tightening torque 8 Nm (5.9 ftlb.)**

Part No.	Designation	Number
982300351	Reservoir	1 piece
N 10546403	Internal hexagon - flat-head screw	2 pieces

*Reservoir*

- 5 Pull blue cap ⇒ *Blue cap-7-* off vent opening.

*Blue cap*

- 6 Insert reservoir line with adapter ⇒ *Reservoir-6-* into the vent opening of the double-clutch transmission.

Part No.	Designation	Number
982321343	Adapter	1 piece

- 7 Installing double-clutch transmission.  
For instructions, see:  
⇒ *Workshop Manual '373419 Removing and installing Porsche double-clutch transmission'*

**Labor position and PCSS encryption**

Labor position:

APOS	Labor operation	I No.
42141900	Removing and installing strut plate	
37341900	Removing and installing Porsche double-clutch transmission	
37344950	Reworking double clutch transmission	

PCSS encryption:

Location (FES5)	37340	Double-clutch transmission
Damage type (SA4)	5041	Oil/grease leak

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