

2023-07-13 14:38:23.0

ALLDATA

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Pages: 14 LRS: BT Bus. #: 770-967-7767

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CSR: btipton

Year	Make	Model	Engine	Trans
2019	Porsche	911 GT3 RS (991)	F6-4.0L	A

Toc Zone: 35 - Transmission and Drivetrain

Component/Path: Disc Brake System
Brake Pad
Front

Info Type: 28 - Specifications

Additional Info:

Problem:

- Looking for fluid fill quantity for the PDK and the differential fluid

LRS Comments: Sending requested information.

Thank You for choosing ALLDATA

The present document was valid at the time of print. A later version may be available online.

WM, 370255 Changing ATF

Tools



◆ Tool denomination

◆ Type

◆ Tool number

Image

Manual metering pumps, Porsche set

Vehicle-specific workshop equipment

> VAS 6563

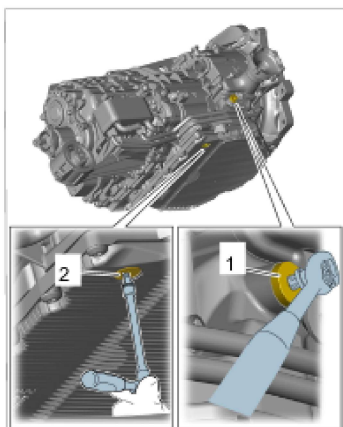


Technical values



Location	Descri...	Type	Basic value	Tolerance 1	Tolerance 2
Drain plug on ATF pan	Replace drain plug	Tightening torque	15 (11 ftlb.) Nm	+ 3 (2 ftlb.) Nm	

Information



Overview of ATF (clutch fluid)

- 1 Oil filler screw
- 2 Drain plug



Information

If a vehicle with Porsche Doppelkupplung (PDK) is not moved for more than 5 years, the ATF must be changed irrespective of the mileage driven since the last ATF change.

Preliminary work



Information

To ensure that the transmission is filled correctly, the vehicle must be horizontal on the lifting platform.

1 Jack and raise the vehicle at the prescribed jacking points.

> **4X00IN Lifting the vehicle**

2 Remove rear underbody cover.

> **519419 Removing and installing cover for rear underbody**

3 Place oil collection pan under the transmission.

Draining ATF



WARNING

Hot fluid

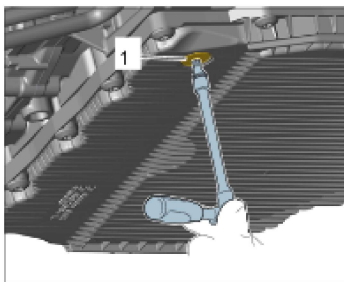
- **Danger of scalding**

- Let the fluid cool down.
- Wear personal protective gear.

1 Drain ATF.

1.1 Unscrew and remove ATF drain plug -1- and drain ATF.

1.2 Screw in new drain plug -1- and tighten to > Tightening torque 15 (11 ftlb.) Nm + 3 (2 ftlb.) Nm ✓ .



Drain plug

Topping up ATF



Information

ATF specifications for Porsche Doppelkupplung (PDK):

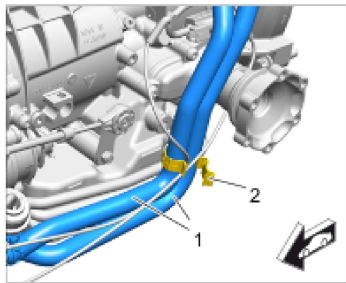
- **Storage:** Store in a dry place, away from direct sunlight, at a temperature not less than $-40\text{ }^{\circ}\text{C}$ and not higher than $+50\text{ }^{\circ}\text{C}$
- **Storage time:** 5 years from fill date on container
- **Before using oil:** Shake the container well for at least 10 seconds.

i Information

Only use oil approved by Porsche in the Porsche Doppelkupplung (PDK), see Parts Catalogue.

1 Fill in ATF.

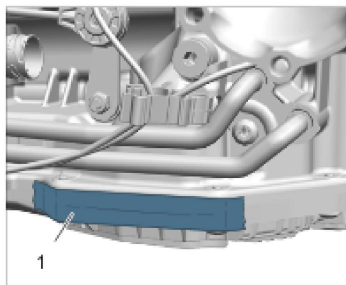
1.1 Unclip coolant hoses -1- from the hose holder -2- .



Disconnecting coolant hoses

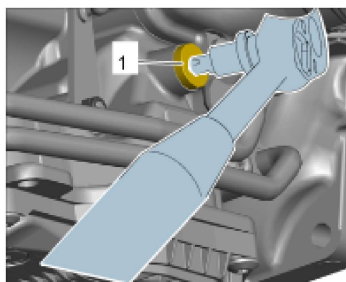
i Information

Affix adhesive tape -1- to the area between the transmission housing and ATF pan to prevent dirt from getting into the oil pan.



Adhesive tape on transmission (shown on PDK transmission in Carrera as an example)

1.2 Unscrew and remove oil filler screw -1- .



Oil filler screw

1.3 Fill in ATF at the filler bore using > [VAS 6563 - Manual metering pumps, Porsche set](#) until ATF emerges.

1.4 Tighten filler screw slightly.

2 Get the Porsche Doppelkupplung (PDK) ready and check ATF oil level.

> 370235 Checking and topping up ATF

Preliminary work

Information

To ensure that the transmission is filled correctly, the vehicle must be horizontal on the lifting platform.

1 Jack and raise the vehicle at the prescribed jacking points.

> 4X00IN Lifting the vehicle

2 Remove rear underbody cover.

> 519419 Removing and installing cover for rear underbody

3 Place oil collection pan under the transmission.

Checking and topping up ATF

Information

Before getting started, the transmission in the stationary vehicle must already be filled with ATF.

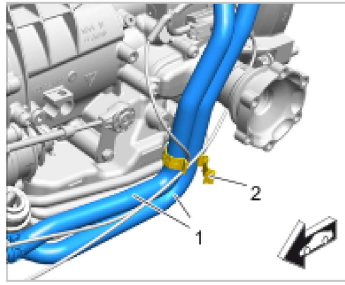
> 370255 Changing ATF (clutch fluid)

1 Pre-fill ATF.

1.1 Get the vehicle ready:

- Move selector lever to position "P".
- Start the engine and leave it running at idle speed.
- Apply the parking brake.

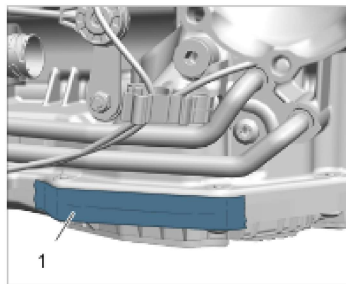
1.2 Unclip coolant hoses -1- from the hose holder -2-.



Disconnecting coolant hoses

i Information

Affix adhesive tape -1- to the area between the transmission housing and ATF pan to prevent dirt from getting into the oil pan.



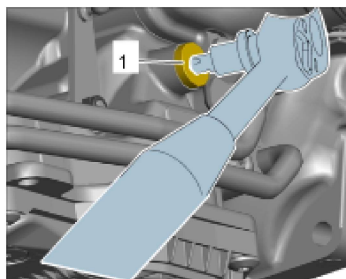
Adhesive tape on transmission (shown on PDK transmission in Carrera as an example)

1.3 Unscrew and remove oil filler screw -1- .

1.3.1 ATF emerges: Collect emerging ATF until only drops of ATF are emerging.

1.3.2 No ATF emerges: Top up ATF using [> VAS 6563 - Manual metering pumps, Porsche set](#) until ATF emerges at the filler bore.

1.4 Screw in oil filler screw -1- .



Oil filler screw

i Information

- **Oil fill mode can be activated when the transmission fluid temperature is between 30 °C and 50 °C. The transmission control unit ends the process automatically after 5 minutes.**

- **Get another person to help you to fill in oil. This person must sit in the vehicle and carry out the required tasks as instructed.**

2 Preparatory work:

Prerequisite: Transmission oil temperature > 10 °C

- 2.1 [> 9818 - PIWIS Tester II](#) must now be connected.
- 2.2 Shift the selector lever through gearshift positions R-N-D once with the engine running and pause for one second at each position.
- 2.3 Move selector lever to position "P".
- 2.4 Start oil fill mode on the Tester and follow the instructions.

WARNING

Hot fluid

- **Danger of scalding**
 - Let the fluid cool down.
 - Wear personal protective gear.

Information


Only use oil approved by Porsche in the Porsche Doppelkupplung (PDK), see Parts Catalogue.

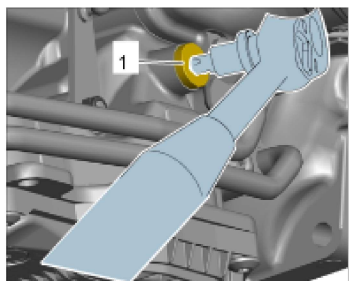
3 Check ATF in oil fill mode.

- 3.1 Unscrew and remove oil filler screw [-1-](#).

3.1.1 ATF emerges: Collect emerging ATF until only drops of ATF are emerging.

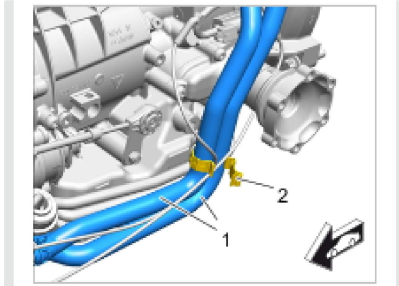
3.1.2 No ATF emerges: Top up ATF using [> VAS 6563 - Manual metering pumps, Porsche set](#) until ATF emerges at the filler bore.

- 3.2 Screw in new oil filler screw [-1-](#) and tighten to [> Tightening torque 27 \(20 ftlb.\) Nm](#) .



Oil filler screw

- 4 Remove adhesive tape from the area between the transmission housing and ATF pan. Carefully clean the transmission housing and ATF pan.
- 5 Clip coolant hoses -1- into the hose holder -2- .



Securing coolant hoses

- 6 Switch off engine.

Subsequent work

Reworking

- 1 Install cover for rear underbody.

➤ **519419 Removing and installing cover for rear underbody**

Subsequent work

Reworking

- 1 Install cover for rear underbody.

➤ **519419 Removing and installing cover for rear underbody**

991110, 991111, 991120, 991121, 991140, 991141, 991150, 991151, 991310, 991311, 991320, 991321, 991340, 991341, 991410, 991411, 991420, 991421, 991430, 991431, 991440, 991441, 991450, 991451, 991480, 991481, 991510, 991511, 991520, 991521, 991540, 991541, 991610, 991611, 991620, 991621, 991630, 991631, 991640, 991641, 991650, 991651, 991680, 991810, 991811, 991850, 991851, 991860, 991861

From 2017 To 2019

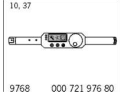


C00, C02, C05, C06, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C32, C33, C34, C35, C36, C37, C38, C39, C45, C46, C96, C98, C99

The present document was valid at the time of print. A later version may be available online.

WM, 399055 Changing oil for final drive (transmission oil)

Tools



◆ Tool denomination	◆ Type	◆ Tool number	Image
electronic torque wrench from 2 - 100 Nm (1.5 - 74 ftlb.)	Special tool	> 9768	
Socket wrench set, 39-piece	Vehicle-specific workshop equipment	> VAS 6928	
Manual metering pumps, Porsche set	Vehicle-specific workshop equipment	> VAS 6563	

Technical values

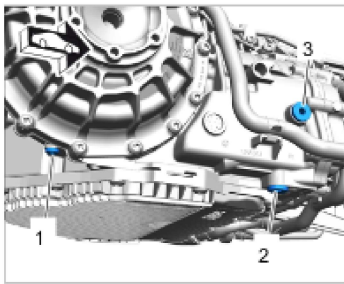


◆ Location	◆ Des...	◆ Type	◆ Basic val...	◆ Toleranc...	◆ Toleranc...
Screw plug or filler plug on Porsche Doppelkupplung (PDK)	M18 x 1.5 - replace sealing ring	Tightening torque	27 (20 ftlb.) Nm		
Drain plug and filler plug on manual transmission	M18 x 1.5	Tightening torque	35 (26 ftlb.) Nm		
Drain plug for differential space	M10 x 1	Tightening torque	10 (7.5 ftlb.) Nm		

Information

Information

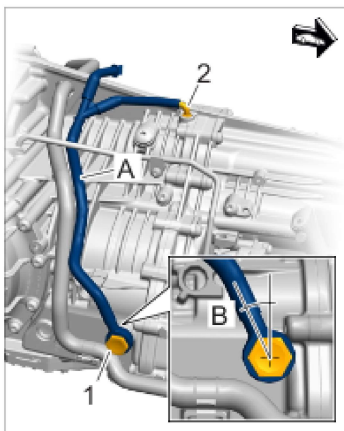
View of PDK transmission - Carrera, Carrera S and Turbo/Turbo S:



Position of oil filler screws and drain plugs (view of PDK transmission)

- 1 Oil drain plug for differential space
- 2 Oil drain plug for gearwheel set space
- 3 Oil filler screw/inspection plug

View of oil filler screw (banjo bolt) on PDK transmission - GT3/GT3 RS/GT2 RS:



View of oil filler screw - GT3/GT3 RS/GT2 RS

- 1 Banjo bolt with seals – replace seals
- 2 Ventilation
- A Vent line
- B Line secured at an angle of 25 +/- 3 degrees

Preliminary work

Preliminary work

Information

- **Align the lifting platform so that the vehicle is raised according to driving position.**
- **To do this, the contact points of the lifting platform must be guided without gaps onto the jacking points of the vehicle before lifting the vehicle.**

1 Jack and raise the vehicle at the prescribed jacking points.

> **4X00IN01 Lifting the vehicle**

2 Remove rear underbody cover.

> **519419 Removing and installing cover for rear underbody - section on "Removing"**

> **51941915 Removing and installing cover for rear underbody - section on "Removing"**

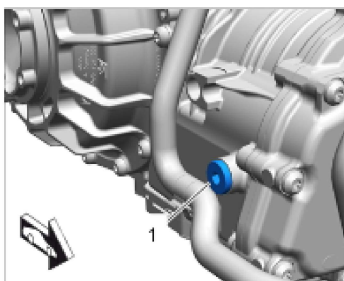
3 Remove support plate (if fitted).

> **421419 Removing and installing support plate - section on "Removing"**

4 Place oil collection pan under the transmission.

Draining oil for final drive (transmission oil)

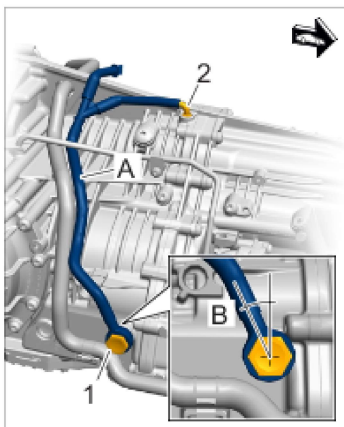
1 **Carrera/Carrera S (including all-wheel) and Turbo/Turbo S:** Unscrew oil filler screw -1- using socket-wrench insert (a/f 8 mm) from > [VAS 6928 - Socket wrench set, 39-piece](#) .



Oil filler screw/inspection plug

2 **GT3 / GT3 RS / GT2 RS:** Unscrew banjo bolt -1- .

2.1 Replace seals.



Banjo bolt for filling oil



WARNING

Hot fluid

- **Danger of scalding**

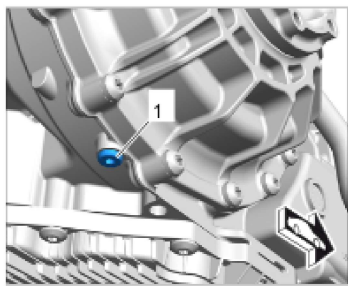
- Let the fluid cool down.
- Wear personal protective gear.

3 Drain oil for final drive.

3.1 Unscrew oil drain plug for differential space -1- and drain oil for final drive.

Screw in and tighten new oil drain plug.

> [Tightening torque 10 \(7.5 ftlb.\) Nm](#) ✓



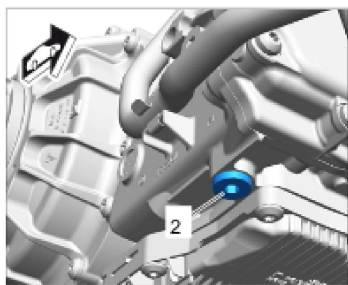
Oil drain plug for differential space

3.2 Unscrew oil drain plug for gearwheel set space -2- and drain oil for final drive.

Screw in and tighten new oil drain plug.

Porsche Doppelkupplung (PDK): > [Tightening torque 27 \(20 ftlb.\) Nm](#) ✓

Manual transmission: > [Tightening torque 35 \(26 ftlb.\) Nm](#) ✓



Oil drain plug for gearwheel set space

Adding oil for final drive (transmission oil)

1 Top up oil for final drive.

1.1 Add oil for final drive using > [VAS 6563 - Manual metering pumps, Porsche set](#) until oil emerges at the filler opening.

Transmission oil filling capacities (change quantity): Specification as listed in the Spare Parts Catalogue:

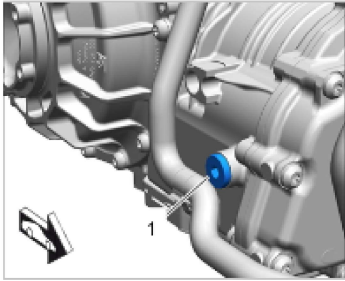
Transmission	991 Carrera/Carrera S	991 Turbo/Turbo S	991 GT3 / GT3 RS / GT2 RS
Manual transmission	3.4 litre	—	—
Double clutch transmission	3.2 litre	3.36 litre	3.4 litre

2 Carrera/Carrera S and Turbo/Turbo S: Screw in filler screw -1- by hand.

The transmission must be prepared in order to fill oil correctly and the oil level must be checked!

> **390035 Checking and topping up oil for final drive (with transmission oil)**

Observe specification for GT3 vehicles!



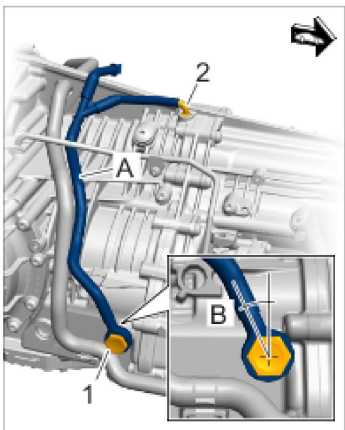
Oil filler screw/inspection plug

3 GT3 / GT3 RS / GT2 RS: Screw in banjo bolt -1- with new seals by hand.

The transmission must be prepared in order to fill oil correctly and the oil level must be checked!

> **390035 Checking and topping up oil for final drive (with transmission oil)**

Observe specification for GT3 vehicles!



Banjo bolt for filling oil

Subsequent work

1 Install rear underbody cover.

> **519419 Removing and installing cover for rear underbody - section on "Installing"**

> **51941915 Removing and installing cover for rear underbody - section on "Installing"**

2 Install support plate (if fitted).

> **421419 Removing and installing support plate - section on "Installing"**

3 Lower the vehicle.

991110, 991111, 991120, 991121, 991140, 991141, 991150, 991151, 991310, 991311, 991320, 991321, 991340, 991341, 991410, 991411, 991420, 991421, 991430, 991431, 991440, 991441, 991450, 991451, 991480, 991481, 991510, 991511, 991520, 991521, 991540, 991541, 991610, 991611, 991620, 991621, 991630, 991631, 991640, 991641, 991650, 991651, 991680, 991810, 991811, 991850, 991851, 991860, 991861

From 2017 To 2019

C00, C02, C05, C06, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C32, C33, C34, C35, C36, C37, C38, C39, C45, C46, C96, C98, C99
