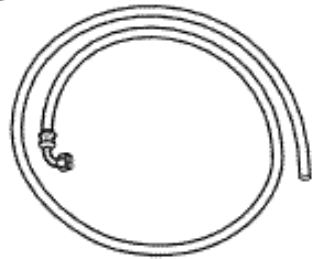
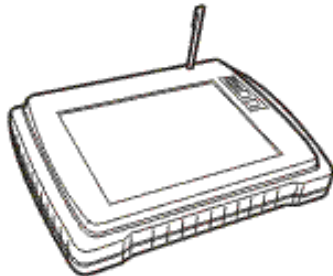


The present document was valid at the time of print. A later version may be available online

WM 375519 Removing and installing ATF pan

Tools

Designation	Type	Number	Description	
Screw connection hose	Special tool	95071		<div style="text-align: right;">20</div>  <div style="text-align: center;">9507/1 000 721 950 71</div>
PIWIS Tester	Special tool	97180		<div style="text-align: right;">03</div>  <div style="text-align: center;">9718 000 721 971 80</div>

Technical values

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Automatic transmission		total capacity	9 litres		
Automatic transmission		change quantity	4.5 litres		
ATF drain screw		Tightening torque	22 Nm (16 ftlb.)		
ATF pan		Tightening torque	8 Nm (6 ftlb.)		
Cross member		Tightening torque	65 Nm (48 ftlb.)		
Automatic transmission	Minimum permitted ATF temperature	ATF temperature	30 degrees Celsius		
Automatic transmission	Maximum permitted ATF temperature	ATF temperature	40 degrees Celsius		
Automatic transmission	ATF high temperature at start of test	ATF temperature	40 gradCelsius		
Automatic transmission	Engagement duration of transmission range	Time	10 s		

Cap nut		Tightening torque	40 Nm (30 ftlb.)		
ATF control screw		Tightening torque	22 Nm (16 ftlb.)		

Information

Notes



Information

Fill only with ATF approved by Porsche. See Spare Parts Catalogue.



Information

Hot vehicles should cool down before beginning the activity.



Information

Vehicle must be horizontal in order to be filled and checked.

Technical values

Filling capacities

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Automatic transmission		total capacity	9 litres		
Automatic transmission		change quantity	4.5 litres		

Preliminary work

Preliminary work

1. Raise the vehicle at the prescribed jacking points. → *400000 Lifting the vehicle*
2. Remove underbody panels. → *519419 Removing and installing rear trim - removing*
3. Place oil collection pan under the transmission.

Draining ATF

NOTICE

Too much refrigerant oil in new air-conditioning compressor.

- **Risk of damage to air-conditioning components.**

- Do not start engine.
- Do not tow the vehicle.

**Hot fluid**

- **Danger of scalding**

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

**Hot fluid**

- **Danger of scalding**

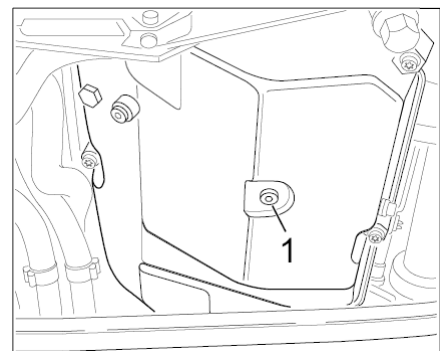
- Let the fluid cool down.
- Wear personal protective gear.

**Hot fluid**

- **Danger of scalding**

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

1. Unscrew drain plug **-1-** and drain ATF.



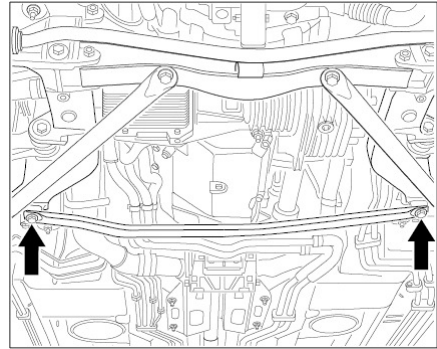
ATF — ATF drain plug

2. Replace sealing ring for drain plug and tighten screw. → **Tightening torque: 22 Nm (16 ftlb.)**.

Removing ATF pan

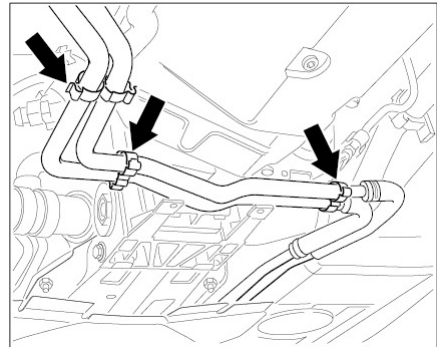
Removing ATF pan

1. Remove cross member.



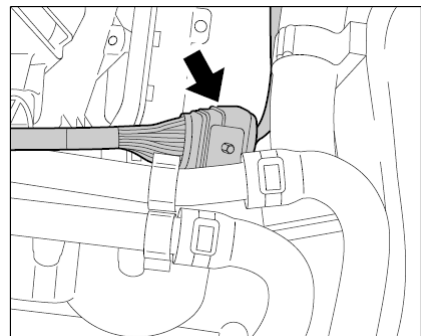
Cross member

2. Disengage coolant lines at the fastening points.



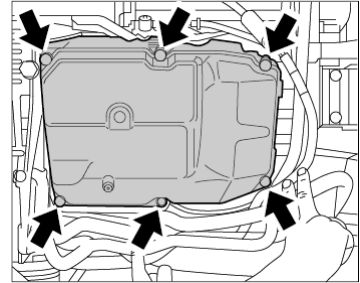
Bracket for coolant lines

3. Remove electric plug.



Electric plug

4. Disengage cable and vacuum line from the retaining clips of the ATF pan.
5. Loosen screws crosswise and remove ATF pan.

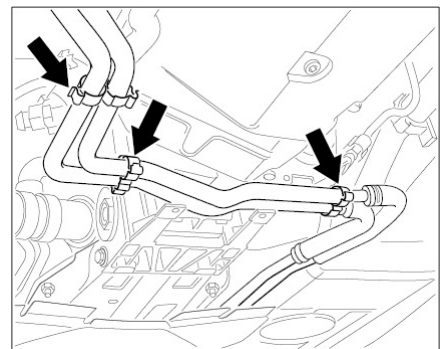


Removing ATF pan

Installing ATF pan

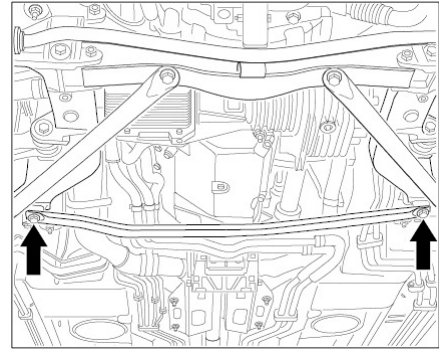
Installing ATF pan

1. Clean ATF pan and place on transmission with new seal.
2. Screw in screws and tighten them crosswise. → **Tightening torque: 8 Nm (6 ftlb.)**
3. Engage cable and vacuum line in the retaining clips of the ATF pan.
4. Fit electric plugs.
5. Engage the coolant lines at the fastening points.



Bracket for the coolant lines

6. Install cross member.



Cross member

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Cross member		Tightening torque	65 Nm (48 ftlb.)		

Subsequent work

Topping up ATF

NOTICE

Too much refrigerant oil in new air-conditioning compressor.

- Risk of damage to air-conditioning components.

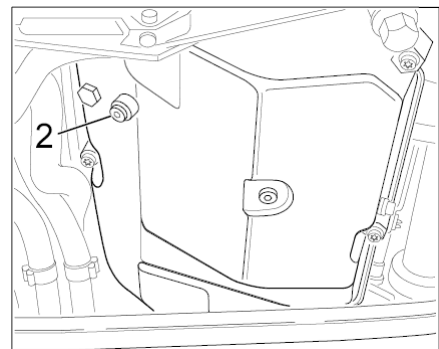
- Do not start engine.
- Do not tow the vehicle.



Information

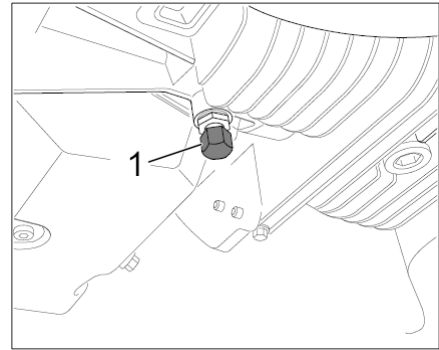
To undo and tighten the cap nut for the charging valve, counter with a ring wrench!

1. Unscrew control screw -2- .



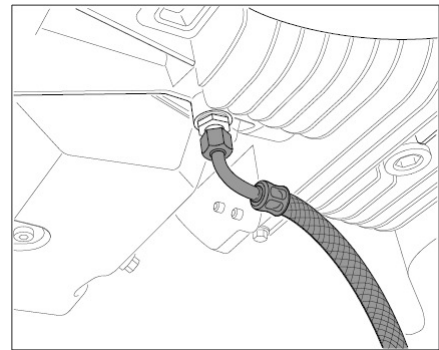
ATF — control screw

2. Screw off cap nut -1- for the charging valve.



Cap nut

3. **Screw connection hose 95071** onto charging valve.



Connection hose onto ATF — charging valve

⚠ WARNING

Hot fluid

- **Danger of scalding**

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

⚠ WARNING

Hot fluid

- **Danger of scalding**

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

⚠ WARNING

Hot fluid

- **Danger of scalding**

- Let the fluid cool down.
 - Wear personal protective gear.
4. Top up ATF through the charging valve until ATF emerges at the inspection bore.

Checking and topping up the ATF

- The transmission must not be in the reduced driving program.
- The ATF temperature must be between → **ATF temperature: 30 degrees Celsius** and → **ATF temperature: 40 degrees Celsius**. An ATF inspection when the temperature is too high causes insufficient filling, while an inspection when the temperature is too low causes over-filling.
- The selector lever must be in position "P" and the engine must be idling.
- The air conditioning must be switched off.
- The vehicle must stand horizontally.



Information

The ATF temperature at the start of testing must not be higher than → **ATF temperature: 40 gradCelsius**.

1. **PIWIS Tester 97180** must be connected before calling up the ATF temperature.
2. Put selector lever in position "P", start vehicle, and allow engine to idle.
3. Top up ATF via the charging valve until ATF runs out at the control bore.
4. With the brake pedal pressed, change through all selector lever positions, remaining in each position for approximately → **Time: 10 s**.



Hot fluid

- **Danger of scalding**

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



Hot fluid

- **Danger of scalding**

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



Hot fluid

- **Danger of scalding**

- Let the fluid cool down.
 - Wear personal protective gear.
5. Top up ATF through the charging valve again until ATF emerges at the inspection bore.

Subsequent work

1. **Unscrew connection hose 95071** from ATF — charging valve.
2. Replace sealing ring for cap nut and screw on cap nut. → **Tightening torque: 40 Nm (30 ftlb.)**
3. Replace sealing ring for ATF control screw and screw in ATF control screw. → **Tightening torque: 22 Nm (16 ftlb.)**
4. Fit underbody panels. → *519419 Removing and installing rear trim - installing*
5. Lower the vehicle.

997420, 997421, 997450, 997451, 997630, 997631, 997650, 997651

Model year as of 2007, Model year up to 2008

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