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WM 2706IN Work instructions after disconnecting the battery

Technical values

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Pole terminal to battery	Fastening nut	M6	5 Nm (3.5 ftlb.)		

Disconnecting and connecting the battery

Disconnecting and connecting the battery



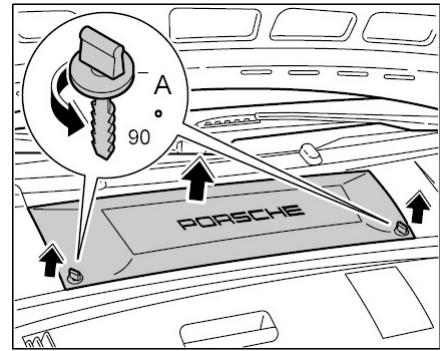
DANGER

Risk of explosion, injury, short circuit and damage to the generator and electronic control units!

- Protective goggles must be worn at all times when working on the battery.
- Do not disconnect battery with engine running.
- Disconnect and reconnect battery with extreme caution. Risk of short circuit and explosion.
- Do not tilt battery when removing it. Risk of acid burns as a result of emerging acid.
- Do not rub the battery with a dry cloth. Risk of explosion as a result of static charge.
- All loads must be switched off beforehand!
- Never start engine without securely connected battery!
- Do not use a boost charger to start the engine!
- Whenever possible, use jump leads with overvoltage protection!
- Always disconnect and cover both battery terminals before carrying out welding work on the vehicle!
- For vehicles with auxiliary battery, also disconnect and cover both terminals of this battery before carrying out welding work!
- Always pull off or push on the wiring harness plugs of control units or other electronic components when the ignition is switched off.

The battery is located at the front in the radiator tank.

1. Open the turn-lock caps **-A-** of the battery cover and take off the plastic lid.



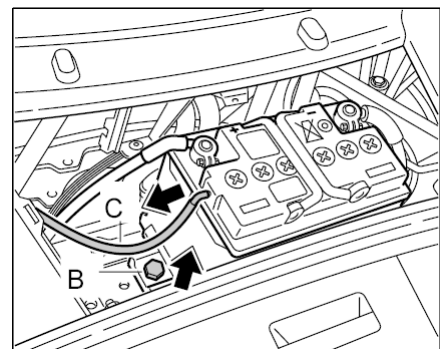
Battery cover



Information

For vehicles with a Vehicle Tracking System (VTS), please read the → *906323 Vehicle Tracking System (VTS) TI!*

2. Disconnect the negative cable from the battery.

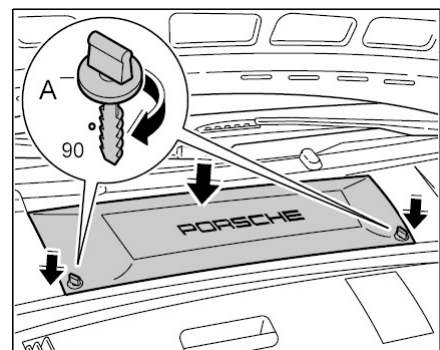


Disconnecting battery

3. Route or isolate negative cable so that all contact with a ground carrier (e.g. body) is avoided.

Screwing ground strap onto battery:

4. Connect the negative cable. → **M6: 5 Nm (3.5 ftlb.)**
5. Position the battery cover and secure by means of the two turn-lock caps **-A-**.



*Battery cover***Effect of disconnection or total discharge of battery on electrical systems in the vehicle and the precautions to be taken****Information****Control unit memories**

Values and faults stored in the control units can be deleted if the battery is disconnected or completely discharged.

- *If possible, all fault memories should be checked and, if necessary, printed out before the battery is disconnected.*

**Information****Supply voltage fault entry**

The entry "supply voltage" may be stored in various control units if the battery has been completely discharged.

- *Delete the "supply voltage" entry from the control units in question.*

**Information****Ready status**

In some countries (presently the U.S.A. and Canada), after disconnecting the battery, it is necessary to reach the Ready status by a test drive and/or by using the Porsche System Tester DME control module menu). If in doubt about this, contact the relevant importer.

**Information****2470 DME control module**

With all DME systems, the engine must run for several minutes before the engine control module can relearn the idle speed and mixture adaptation values!

After disconnection of the power supply, the idle speed might change or fluctuate briefly until the throttle valve adjusting unit has been readapted.

The mixture adaptation is also lost.

After the battery is connected:

With the DME, it is necessary to carry out a learning and adaptation routine as described below:

- *Switch ignition on for 30 seconds without starting the engine.*
- *Do not actuate accelerator pedal.*

This completes the adaptation of the throttle valve adjusting unit.



Information

Tyre pressure monitoring system

When the battery is disconnected and connected, the tyre pressure is first displayed as "- - -".

- *Once the battery has been disconnected and work is complete, the vehicle must be driven for a short distance.*

The actual pressures will then be displayed again.



Information

4560 Steering angle sensor

The steering angle sensor must be re-initialised when the battery is disconnected and connected.

- *Turn wheels to straight-ahead position.*
- *Switch ignition off and then on again twice.*
- *Start engine.*
- *From the straight-ahead position, turn steering wheel approx. 20° to the right, past the straight-ahead position.*
- *Drive the vehicle straight ahead for at least one second at a speed above 4 km/h (2.5 mph).*

The steering angle sensor segment is recognised again in this process.

Once the sensor has been successfully initialised, the fault code that is stored in the fault memory is documented using the fault deletion counter.

The fault memory erases itself automatically.

The PSM indicator light in the instrument cluster goes out.



Information

6452 Power windows

The end positions of the power windows are deleted from the control unit when the battery is disconnected and connected.

Perform the following procedure for all power windows:

- *Close the doors.*
- *Actuate rocker switch and fully close window once.*
- *Actuate rocker switch once more to close.*

The upper end position of the window is stored.

- *Actuate rocker switch and fully open window once.*
- *Actuate rocker switch once more to open.*

The lower end position of the window is stored.



Information

9025 Instrument cluster

Clock

The time is deleted when the power supply is disconnected.

- *Press clock control button approx. 1 second on instrument cluster. Hour display flashes.*
- *Press clock control button in the corresponding direction. Hours can be adjusted.*
- *Press the clock control button again, the minute display flashes and can be adjusted by turning the clock control button.*

Trip odometer

- *The trip counter is set to 0 when the power supply is disconnected.*



Information

Airbag control module

If the battery is disconnected for less than 100 seconds when the ignition is switched on, a CAN time fault, which makes diagnosis of the airbag control unit impossible, may be stored in the airbag control unit.

- *The fault is erased by removing the ignition key.*



Information

On-board computer

Disconnection of the vehicle battery deletes the memories for average speed and average consumption. As a result, the displayed range on remaining fuel can be markedly different or even 0. The outside temperature display loses its memory effect. In other words, the indicated outside temperature can be too high due to the heat radiated when the vehicle is hot.



Information

PCM

When the power supply is disconnected, the built-in GPS receiver loses the so-called almanac containing the satellite orbital paths.

- *Switch on PCM when there is a free panoramic view (load GPS almanac); the almanac is reloaded as soon as four satellites have been identified.*

The date and time are deleted when the battery is disconnected. The summer-/wintertime recognition feature is maintained. The time is lost and is updated again when there is a plausible GPS reception (four satellites).

- *The date and time are also adopted once the GPS almanac has been loaded; it may be necessary to change over to summer time (daylight-saving time). This time is transferred to the instrument cluster. If the time is then manually changed by means of the instrument cluster, this time is adopted by the PCM and synchronised with GPS time.*

If the telephone car had been inserted and the telephone was ready for operation, the telephone is subsequently disabled (only if "Use last PIN" is deactivated).

- *The telephone is enabled again when the telephone PIN code is entered with the SIM telephone card inserted.*

Test drive after disconnecting battery



Information

Depending on the vehicle equipment fitted, all these work steps are carried out during the test drive.

The fault memories of all vehicle control units should be read out again after the test drive!

Effects of overvoltage on electrical and electronic systems during welding work and the precautions to be taken



Caution

Risk of damage to generator and electronic control units.

- Disconnect and cover both battery terminals before carrying out welding work on the vehicle!
→ *270619 Removing and reinstalling battery - chapter on "Removing".*
- Risk of triggering of airbag modules! Before starting welding work, the airbag triggering unit must be disconnected from the vehicle electrical system by pulling off the connector. → *695319 Removing and reinstalling airbag triggering unit - chapter on "Removing"*
- During electric arc welding (e.g. gas shielded arc welding), high currents and voltages flow; these are greater than the vehicle voltage and can lead to the damage or destruction of electric and electronic components. To keep the risk of damage as low as possible, the ground strap must be clamped as near as possible to the welding area.
- On completion, first install the airbag triggering unit → *695319 Removing and reinstalling airbag triggering unit - chapter on "Installing"*, then connect the battery → *270619 Removing and reinstalling battery - chapter on "Installing"* → *270619 Removing and reinstalling battery - chapter on "Removing and reinstalling"*.

987110, 987111, 987120, 987121, 987310, 987311, 987320, 987321, 987330, 987340, 987360, 987361

Model year as of 2005

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