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WM 971019 Removing and installing vehicle electrical system control unit

Technical values

| Location | Description | Type | Basic value | Tolerance 1 | Tolerance 2 |
|----------------|-------------|---------------|-------------|-------------|-------------|
| Current rating | | Nominal value | 40 A | | |
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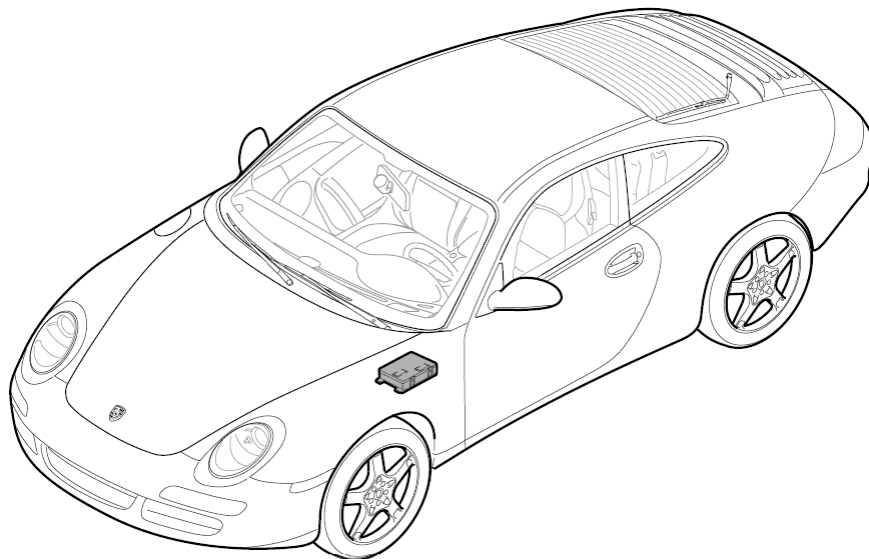
Preliminary work

Preliminary work - vehicle electrical system control unit

Detach relay carrier 1. → 978319 Removing and installing relay carrier 1 - "removing"

Removing vehicle electrical system control unit

Removing vehicle electrical system control unit



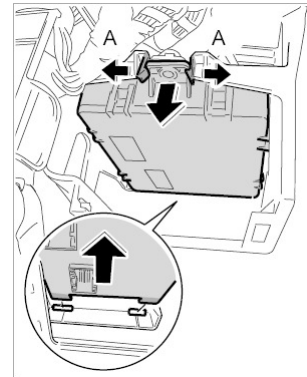
Install location

NOTICE**Voltage peaks**

- **Risk of damage to load or to the control unit**

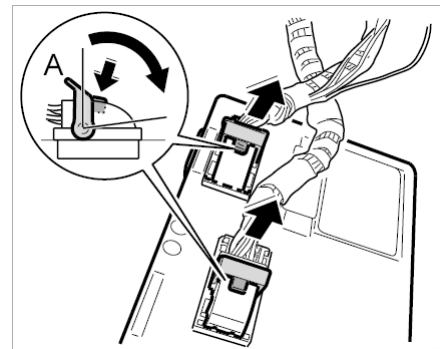
→ Remove the ignition key and switch off load before disconnecting or removing load.

1. Pull apart the locking tabs **-A-** for the vehicle electrical system control unit, pull the control unit forward and down with connectors still attached, then pull it out of its holder at the rear.



Bracket for the vehicle electrical system control unit

2. Release both electrical connectors **-A-** and unplug them.

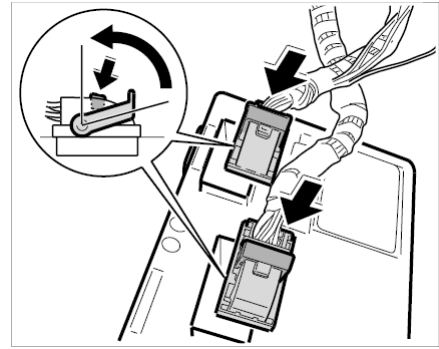


Release connector A and disconnect.

3. Take out the control unit.

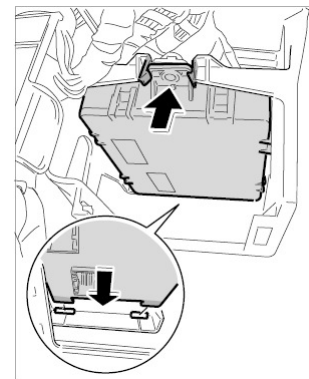
Installing vehicle electrical system control unit**Installing vehicle electrical system control unit**

1. Press electrical plugs into control unit and lock them **-arrow-** so they are felt to engage.



Inserting the connectors

2. Push vehicle electrical system control unit upwards into the holder. It must engage properly. Make sure the electrical leads are not pinched.



Push the electrical system wiring into its retaining bracket so that it engages.

Subsequent work for vehicle electrical system control unit

Subsequent work - vehicle electrical system control unit

Attach relay carrier 1. → 978319 Removing and installing relay carrier 1 - "installing"

Coding vehicle electrical system control unit

Programming the vehicle electrical system control unit:

Reading out and printing out values

NOTICE

Voltage drop

- Risk of irreparable damage to control unit
- Risk of damage to control unit
- Fault entries in the control unit
- Coding in the control unit is aborted
- Malfunctions in control unit, even during programming

- Prior to disconnecting the control unit, switch off the ignition and remove the ignition key.
- Ensure that the power supply is not interrupted during programming.
- Connect a battery charger with a current rating of at least → **Nominal value: 40 A** to the vehicle battery.

NOTICE**Voltage drop**









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**Information**

Follow the instructions on the Tester.

Later versions of the software may display slightly different text or require a slightly different procedure. The instructions you receive from the tester itself take precedence over this description.

1. Connect the Porsche System Tester to the vehicle and start the System Tester. Switch on the ignition.  Continue.
2. Select vehicle type using the cursor keys.
3. Switch from vehicle type to list of control units  .
4. Select the relevant control unit with the cursor keys and press the  key.
5. Select Control Unit Replacement with the cursor keys and press the  key.
6. Select Read Out Values (Code) with the cursor keys and press the  key.
7. The message "Reading code" will appear on the screen of the Porsche System Tester. Press the  key.
8. Switch off ignition and replace control unit.
9. Switch on ignition. After replacement of the control unit, the vehicle data that has been read out is transferred to the new unit using the "Write data" menu option (see Section 6). Press the  key.
10. System Tester displays Coding write-in complete. Press the  key.
11. Read out fault memory again and erase.

Coding (programming) the control module



Information

The procedure described must be applied when a control unit has to be replaced and the tester function **Control unit replacement** cannot be used.

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
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Information

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Later versions of the software may display slightly different text or require a slightly different procedure. The instructions you receive from the tester itself take precedence over this description.

1. Connect the Porsche System Tester to the vehicle and start the System Tester. Switch on the ignition.  Continue.
2. Select vehicle type using the cursor keys.
3. Using the  key, move from the vehicle type to the list of control modules. Perform the automatic control module search.

4. Select the relevant control module with the cursor keys and press the **>>** key.
 5. Select **Control unit replacement** with the cursor keys and press the **>>** key.
 6. Select **Write in data** and write in the relevant data. (Even if no data was read out, the required data is loaded for the control unit.)
 7. Select Coding with the cursor keys and press the **>>** key.
 8. Select the version required for the vehicle in question and follow the instructions on the Tester.
 9. In the menu **Vehicle type**, select **Control units** and then select the menu **Special functions**.
 10. Perform **Vehicle handover** and follow the instructions of the Tester.
 11. Read out and erase fault memory.
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997110, 997111, 997120, 997121, 997310, 997311, 997320, 997321, 997410, 997411, 997420, 997421, 997430, 997431, 997510, 997511, 997520, 997521, 997610, 997611, 997620, 997621, 997630, 997631, 997810, 997811, 997830, 997840, 997841, 997850, 997851, 997140, 997141, 997450, 997451, 997650, 997651, 997720, 997721, 997820, 997860, 997861

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