

Update instructions for the MMI High update

MMI update programming for vehicles equipped with MMI High, e.g. A8 (4E), A6 (4F), Q7 (4L), A5 (8T), and A4 (8K) via the on-board CD drive with feedback documentation via Software Versions Management (Audi SVM)



The steps which have to be carried out are explained in the Business TV episode 191/2002. See the film in a format which can be played on a Windows Media Player on the update CD 420906961B.

Also see the iTV programme 2345 about Online flashing and SVM. The iTV programme is on the following update CDs: CD 8D0906961C, 8Z0906961B, and also 8N0906961A .

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1. Overview of controls

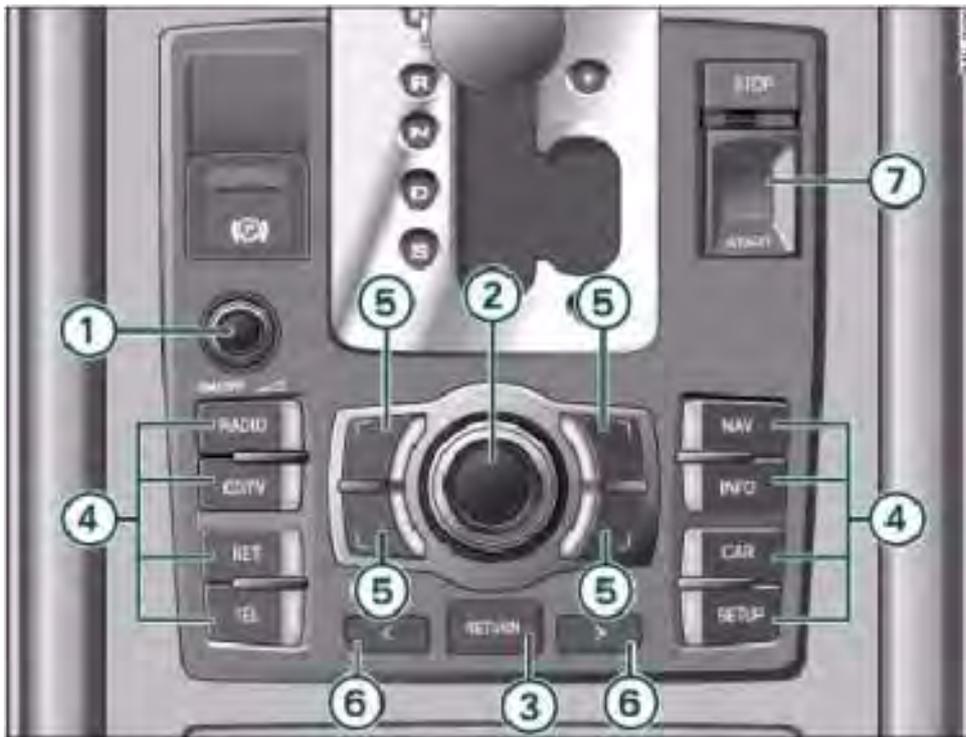


Figure 1: Controls (depending on vehicle type)

- ① ON/OFF button with volume control
- ② Rotary pushbutton
- ③ RETURN button
- ④ Function selector buttons
- ⑤ Control buttons
- ⑥ Arrow buttons
- ⑦ Fingerprint (not used in these instructions)

2. Important information about update programming

Attention:

→ After each update, the MMI system must be restarted and checked if there are still control units that need updating. This is necessary because some control units can only be updated in the second step.

→ (Failure to observe these instructions can cause hardware faults!)

→ Do not leave the flash CD in the vehicle!

Check that your software meets the requirements for update programming.

Requirements:

1 MMI flash CD (get the part number from the relevant TPL episode or step instructions).

1. Check that the no-load voltage of the vehicle battery is at least 12.5V.
2. Let the engine run for 1 minute and then immediately continue with update according to the instructions.
3. Connect a battery charger (VAS 5095) to maintain vehicle voltage throughout the entire update programming session.
4. Switch off all equipment with high electromagnetic emission values (such as mobile telephones or cordless land-line telephones) in and around the vehicle.
5. The Bluetooth handset (included with factory-installed Bluetooth car phone BTA) must be switched on.
6. Diagnostics using the VAS tester must not be run in parallel.
7. The ignition can be switched off and remain off.
8. Switch off all unnecessary electrical equipment (daytime running lights, air conditioning, etc.) in the vehicle and leave it switched off until all update programming has been completed.
9. Ensure that no other CDs (audio CDs, electronic on-board handbook, etc.) are in the CD drives while running update programming.

10. It is essential that you adhere to the flash sequence!

Note:

The screen shots in these instructions are for your information only, i.e. the texts shown here are not necessarily identical to the texts you will see on your display.

If problems should occur during the MMI software update, you can find important information about possible sources of error in the Audi Servicenet under "Technology – Product support – Electrical – Multi Media Interface (MMI) – MMI High".

3. Carrying out update programming

1. Switch on MMI.
2. Remove all CDs from the CD changer / CD player.
3. Put the MMI update CD into the first slot of the CD changer or the CD drive with the label facing up.
4. Wait at least **2 minutes** to allow the system to analyze the MMI update CD and for the MMI System to be ready to be updated.
5. Activate the RADIO menu by pressing the corresponding function selector button.
6. First press SETUP and then RETURN and hold both buttons down simultaneously for about 5 seconds until the display changes.
7. Activate the SW update by pressing the bottom right control button.



Figure 2: Selecting the SW update using the bottom right control button

8. Activate the update from the CD-ROM by pressing the rotary pushbutton.

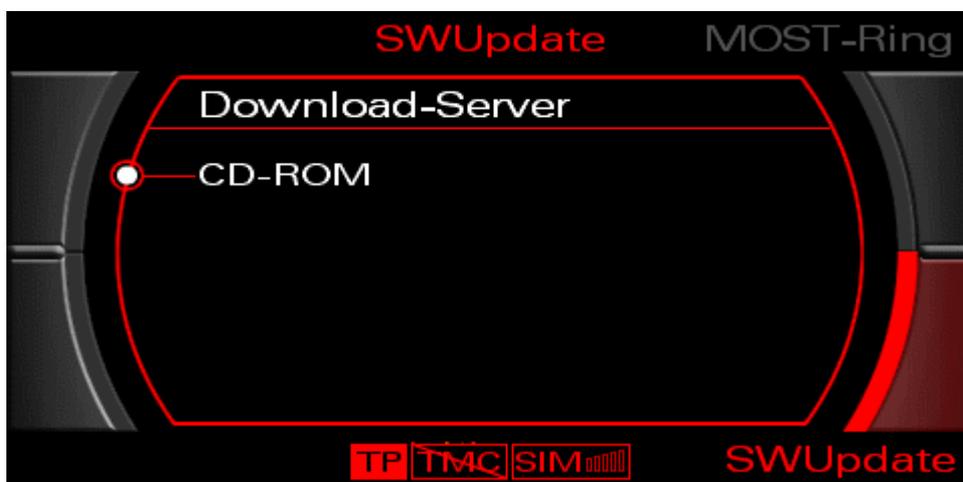


Figure 3: Selecting update of CD-ROM by pressing the rotary pushbutton

9. Wait at least 20 seconds while the Meta information is being read.

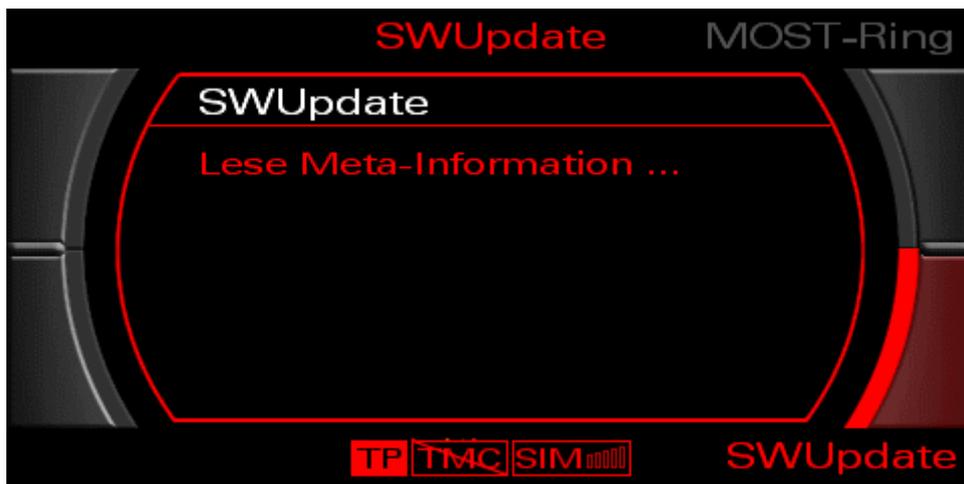


Figure 4: Waiting while the Meta information is being read

10. Select and activate "Standard" using the rotary pushbutton.



Figure 5: Selecting "Standard" using the rotary pushbutton

11. The list which now appears shows all the devices which can be updated.

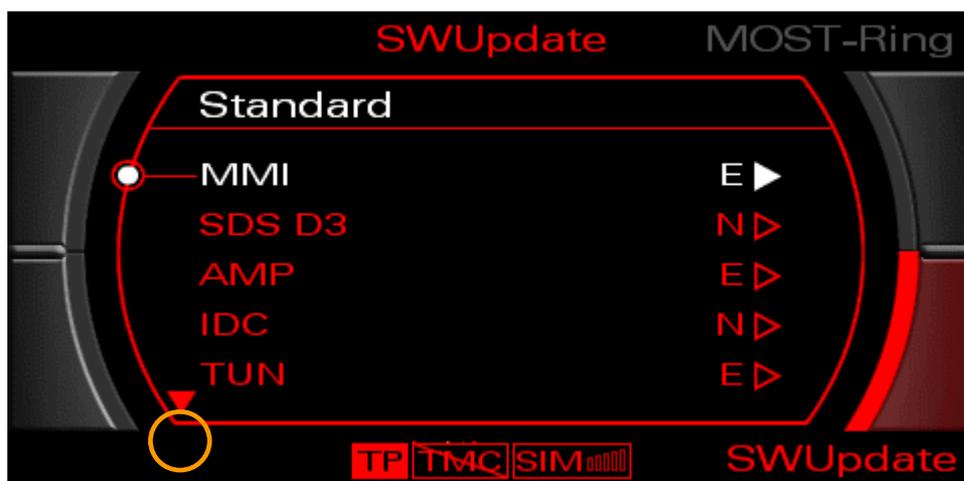


Figure 6: List view of the devices to be updated

Type of change:

N/A= No update information available on the present CD

N= No update required

E= Single update (partial update: bootloader or application) will be performed

J= Bootloader and application will be changed (complete update)

- Using the rotary pushbutton, select and confirm "Start download" at the end of the list.



Figure 7: Activating Start download using the rotary pushbutton

- Read the note if one appears. Then select and activate "OK" at the end of the list using the rotary pushbutton (this only appears in the case of a bootloader update of a component).

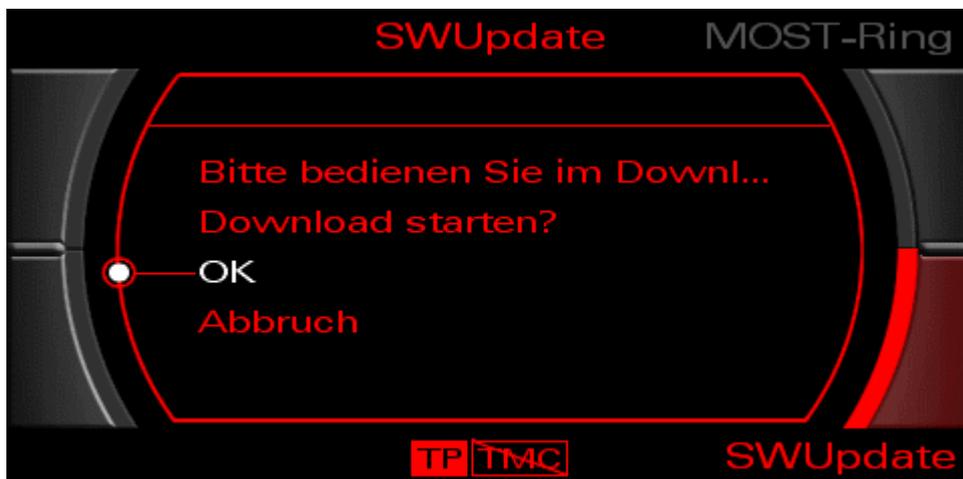


Figure 8: Start download by selecting "OK" using the rotary pushbutton

Note:

A warning message may appear informing you about the risk of damaging control units. You can ignore this message at this point.

14. Update programming for the individual infotainment components now starts; this can take up to 50 minutes, depending on the vehicle equipment.



Figure 9: Download progress during update programming

15. The display automatically shows "Start applications" when update programming is completed. Wait until the listed devices have been initialised.



Figure 10: Starting applications after update programming

16. The programming success is displayed in the overview which follows.

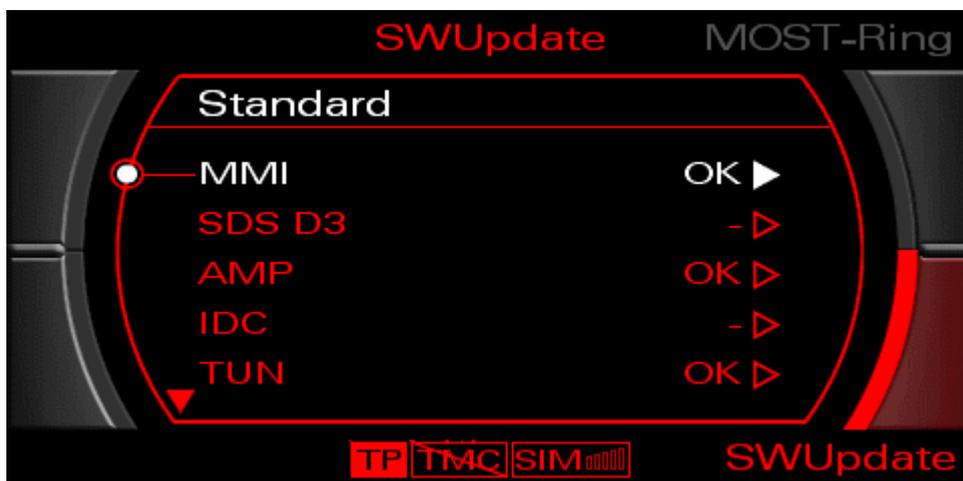


Figure 11: Displaying the update programming success

17. Use the rotary pushbutton to scroll down the list. If a device has not been programmed properly ("NotOK), select "Try again?" and start the update again by activating "Start download". If one of the control units cannot be flashed using this procedure (testing 2-3 times), please proceed with the next step in the instructions.
- Note:** If the status "OLD" appears after updating the telephone control unit (UHV), please proceed with the next step of the instructions.



Figure 12: Update programming successful

18. Normally, every updated device is OK and you can select and activate "Restart MMI" at the end of the list.



Figure 13: Final screen after successful update programming

Important

When restarting the MMI, an additional download must be started (with a 2 minute waiting time) after each update programming. Check and see if additional update programming is necessary. The download is actually finished when there is no longer a device in the list view of devices to be updated displaying a "J" or an "E" (see Figure 6: List view of the devices to be updated).

This applies to all update programming!

19. After restarting the MMI **wait 2 minutes** (so that all devices have time to log on to the system) and check that none of the control units needs an additional update.

Note:

The process is necessary after every download to ensure correct system status.

20. You can use the infotainment components again afterwards, or switch the system on or off with the on/off button.

Note:

If no final screen appears (see Figure 13: Final screen after successful update programming) and the MMI restarts automatically with user input, the update must be carried out once again as described in Chapter 3. The final screen, however, can also appear in English, depending on the previous status of the components. In this case, select "Restart MMI".

4. Changing the language of the MMI speech dialogue system (SDS)

Note:

If you wish to change the language setting for the speech dialogue system (SDS), please perform the following steps; otherwise, go straight to the next chapter.

Please inform the customer that after changing the language of the speech dialogue system the name tags allocated by the user (names for radio stations, CDs and directory entries) will no longer be usable. They must be deleted in the MMI using the "Setup → Settings → Speech dialogue system → Delete all name tags" (see operating manual).

1. Switch on MMI.
2. Remove all CDs from the drive.
3. Put the MMI flash CD into the first slot of the CD changer or the CD drive with the label facing up.
4. Wait at least 10 seconds to allow the system to analyse the MMI flash CD.
5. Activate the RADIO menu by pressing the corresponding function selector button.
6. First press SETUP and then RETURN and hold both buttons down simultaneously for about 5 seconds until the display changes.
7. Activate the SW update via the control button.



Figure 1414: Selecting the SW update using the bottom right control button

8. Activate the update from the CD-ROM by pressing the rotary pushbutton

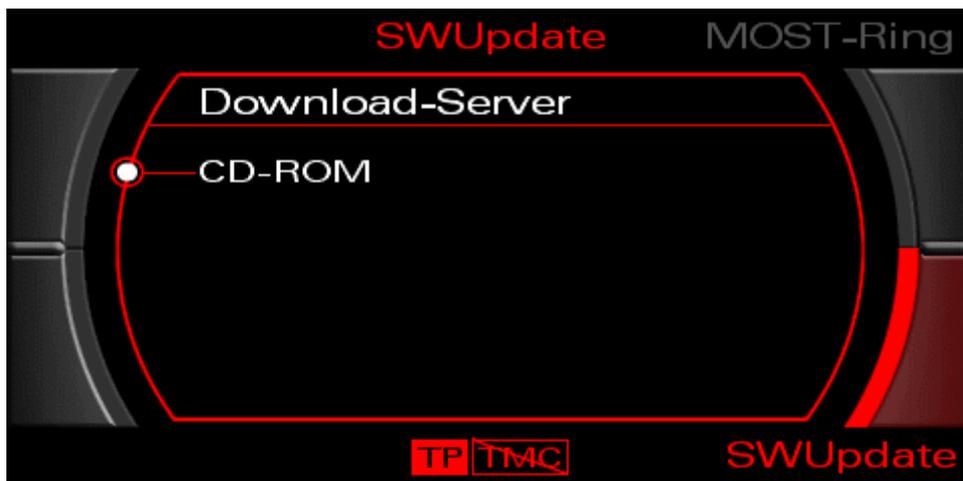


Figure 15: Selecting update of CD-ROM by pressing the rotary pushbutton

9. Wait for 20 seconds while the Meta information is being read.

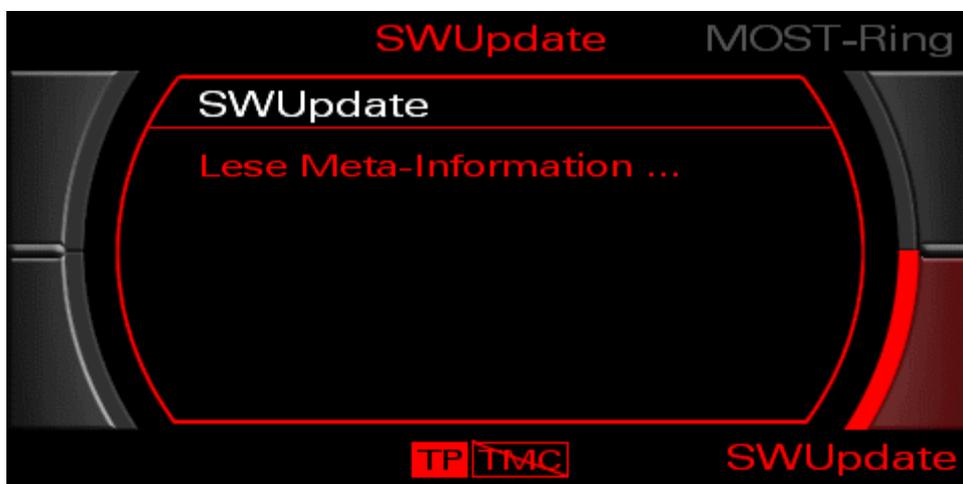


Figure 15: Waiting while the Meta information is being read

10. Select and activate "Standard" using the rotary pushbutton.



Figure 17: Selecting "Standard" using the rotary pushbutton

11. Using the rotary pushbutton, select and confirm "SDS D3" in the list that now appears.

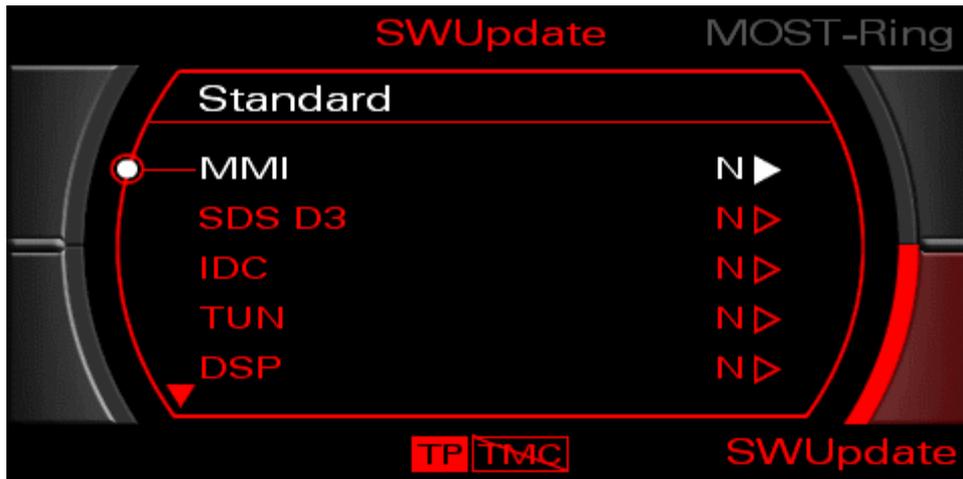


Figure 1816: Selecting from the list of SDS devices to be updated

12. Select and activate the menu option "Select language".



Figure 1917: SDS menu option "Select language"

13. Select and activate the desired language by pressing the rotary pushbutton. A tick (checkmark) will appear next to the selected language.



Figure 18: Selecting desired language using the rotary pushbutton

14. Press the RETURN button twice. This will take you back to the selection list. "SDS D3" is not marked with a "Y".

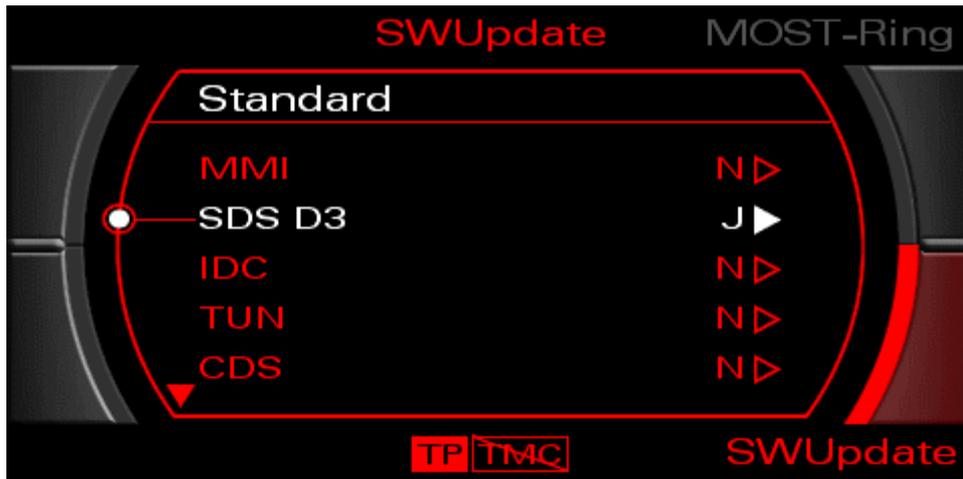


Figure 19: Back to the list of devices to be updated

15. Select and activate "Start download" at the end of the list using the rotary pushbutton.

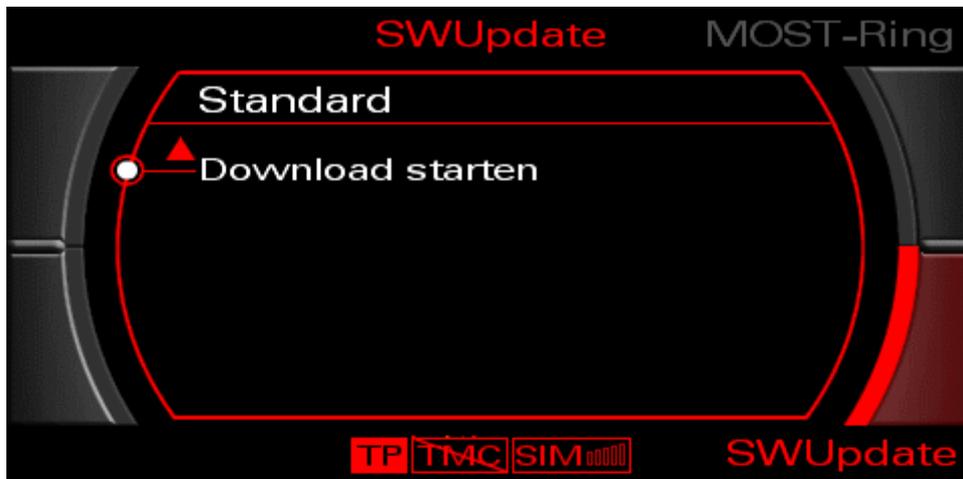


Figure 2220: Activating Start download using the rotary pushbutton

16. Read the note if one appears. Then select and activate "OK" at the end of the list using the rotary pushbutton.

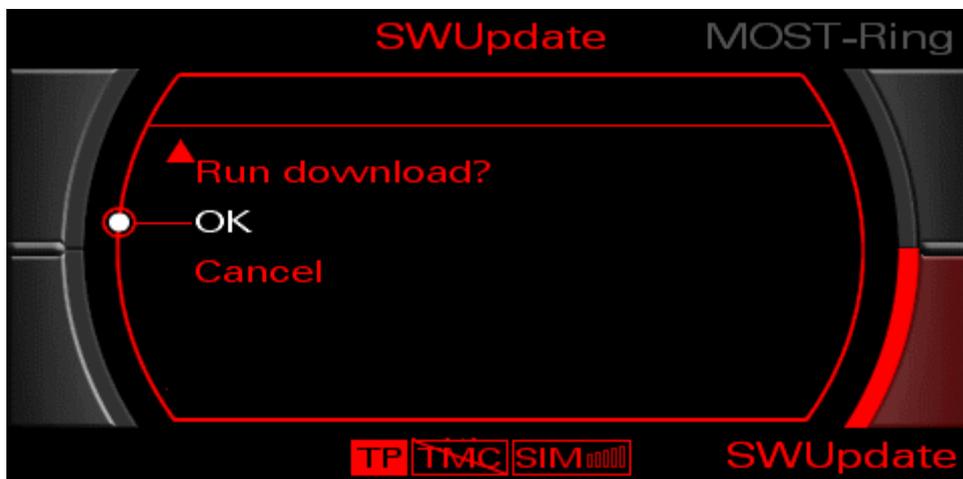


Figure 21: Start download by selecting "OK" using the rotary pushbutton

Note:

A warning message may appear informing you about the risk of damaging control units. You can ignore this message at this point.

17. The update programming will now change the system to the desired language.

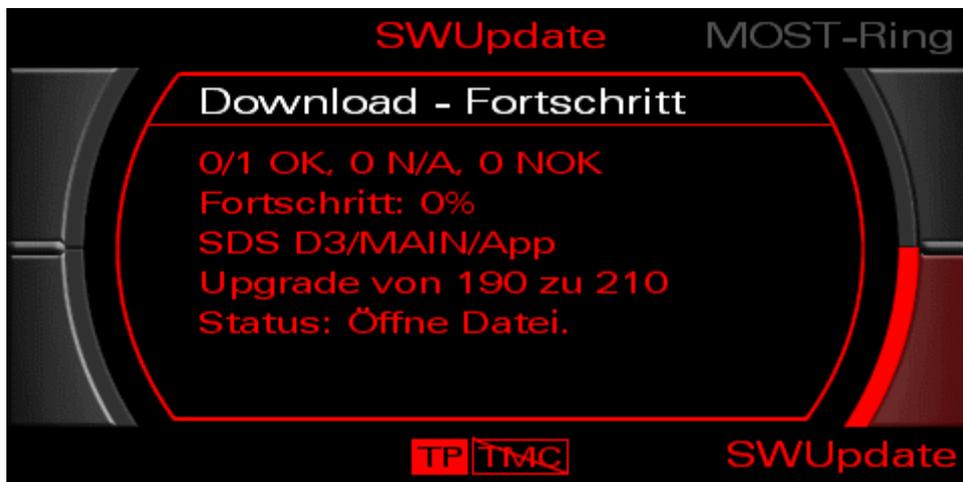


Figure 2422: Update programming changes the language

18. The display automatically shows "Start applications" when update programming is complete. Wait until the listed devices have been initialised.



Figure 23: Starting applications after update programming

19. After you have completed the changes to the language setting, select "Restart MMI" (at the end of the list) and activate your selection using the rotary pushbutton.

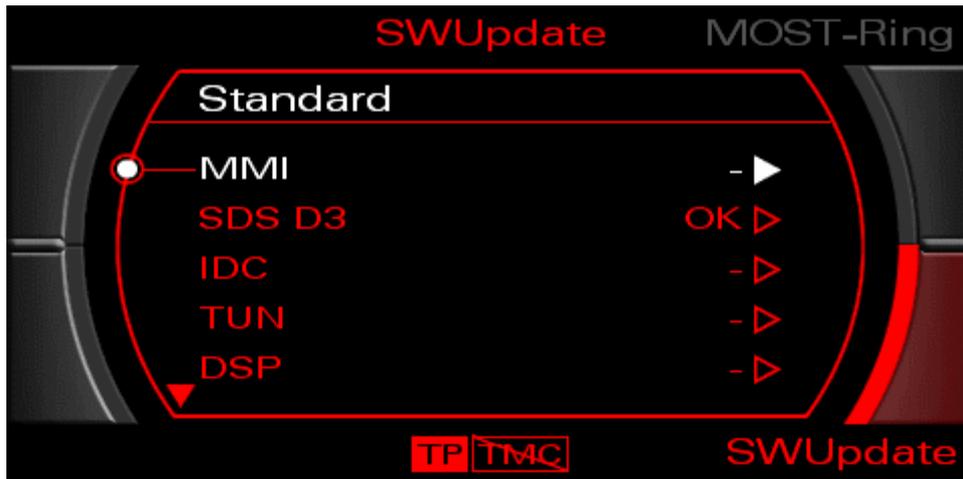


Figure 24: Final screen after successful update programming

20. Switch the MMI off for 10 seconds and then back on again.
21. The infotainment components will be fully functional after a delay of 3-15 minutes after the first on/off cycle. The new language undergoes internal processing during this time.
22. Changing the language of the speed dialogue system has finished when the Speed dialogue system clearly indicates it is ready by beeping when the speech operation button (PTT button) in the steering wheel has been pressed with the MMI switched on.
23. You can now switch off the MMI again.

Note:

If there is a navigation system installed in the vehicle, you also have to change the language for voice messages there.

5. USB – consumer update for the Audi music interface (AMI)

Note:

**Only applicable to vehicles with PR No. 7D3 or 7D8
Vehicles with Audi music interface (AMI)**

A driver update of the AMI is performed using the consumer update. This allows new consumer devices (mobile devices) to be supported and driver conflicts to be rectified.

You can find the current consumer update as well as a detailed description of the update in the Audi Servicenet under "*Accessories/Tyres --> Original accessories -> Products -> Infotainment -> Audi music interface*".

Please check to see that the vehicle has the current driver version of the AMI control unit.

6. SVM feedback documentation

The new vehicle configuration must be transmitted to Audi after every software update (also for multi-stage MMI software updates) to support the fault elimination process. For this purpose, the VAS tester is equipped with Software Versions Management (Audi SVM). Connect a VAS 5051 or VAS 5052 which can be used online (with current Base CD and Brand CD version) to the vehicle's diagnosis socket and link it up with your workshop network CPN.

Note:

For later invoicing of the work carried out it is important that the vehicle data is transmitted correctly and completely. For this reason, please answer the questions at the end of Guided Fault Finding regarding workshop order number, chassis number and success of work carried out. Then transmit this information using the online VAS tester.

If you fail to do so, the work cannot be billed under warranty.

1. Turn on the ignition.
2. Switch on MMI.
3. Activate the radio menu by pressing the RADIO function selector button.
4. Start Guided Fault Finding.



Figure 25: Starting Guided Fault Finding

5. Select "Audi" as brand.

6. Select vehicle type, such as <Audi A8 2003>.
7. The tester will now establish the vehicle identification. If the tester does not do so automatically carry out vehicle identification as usual.
8. Select engine version.
9. Follow the directions on the screen.
10. The "vehicle system test" will now be carried out, during which all fault memories will be read. If applicable, follow additional directions on the screen.
11. When all control units have been interrogated, press "Next" arrow (on bottom right of screen).
12. Use the "go to function" to select the option "Function /Component Selection".

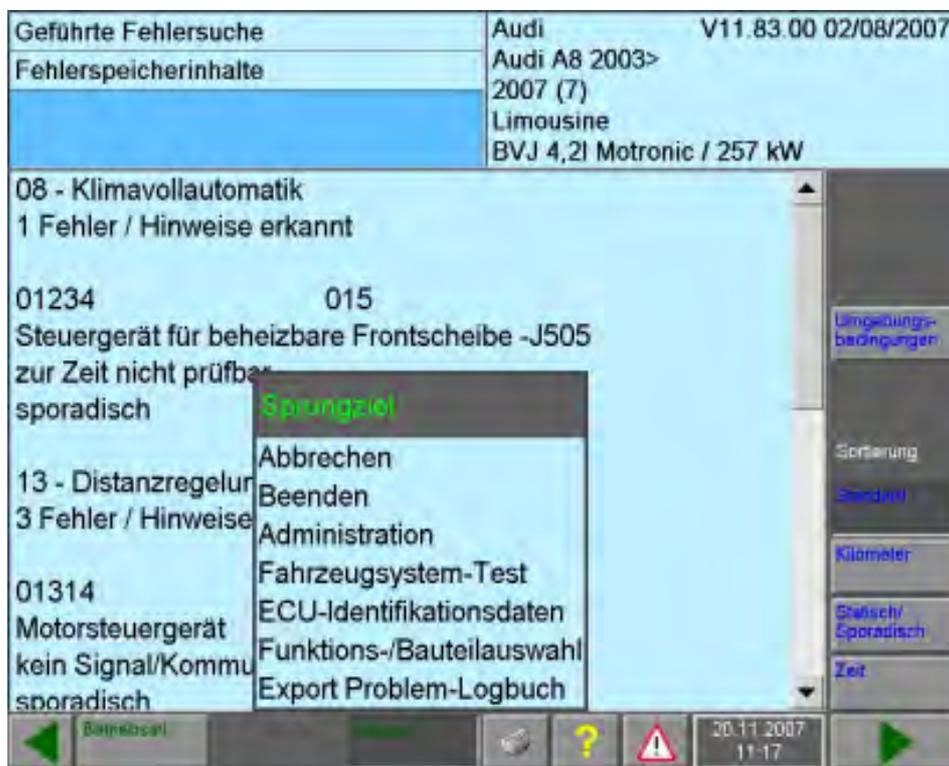


Figure 26: Selecting the function/component

13. Now select "Software Versions Management".

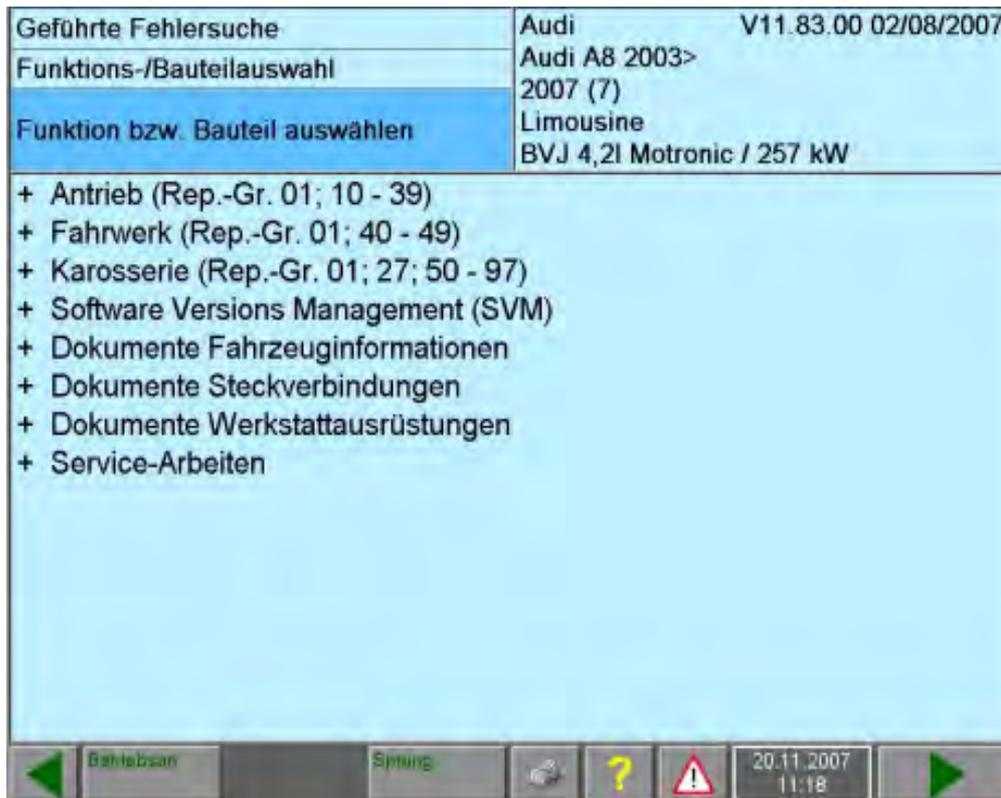


Figure 27: Software Versions Management

14. Highlight "Problem-related hardware and software update" and then press on the Next arrow (bottom right).

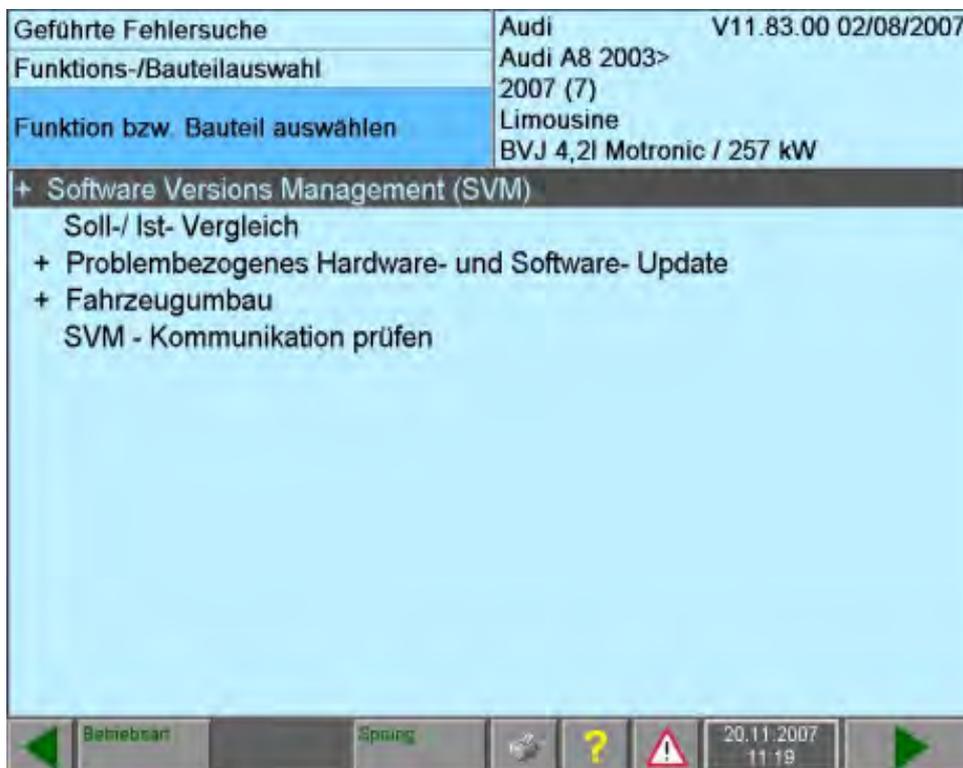


Figure 28: Problem-related hardware and software update

15. In the next menu, select "Action code: Direct input" and then press the Next arrow (bottom right).

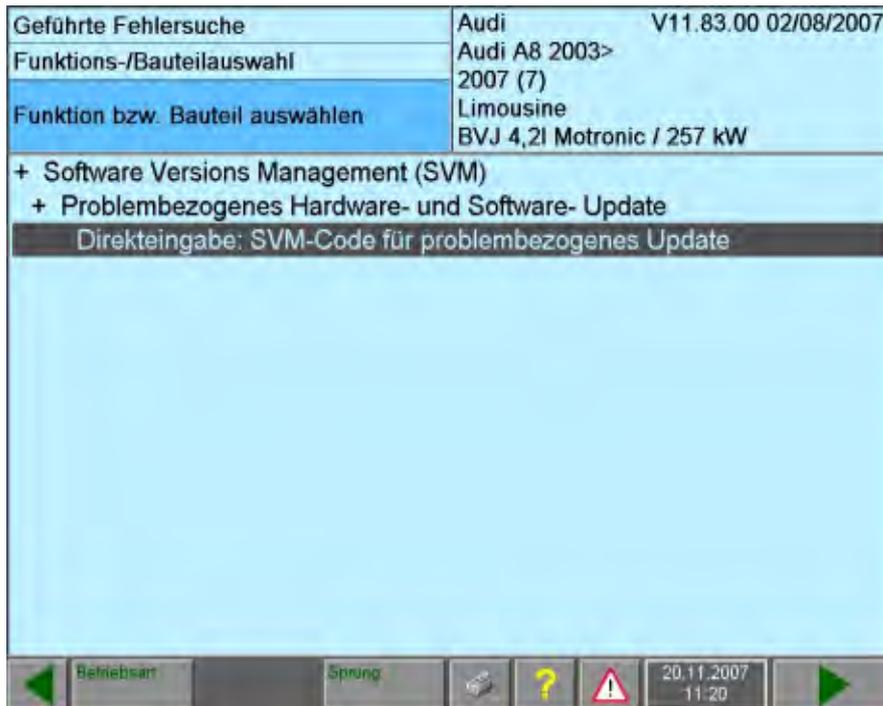


Figure 29: Action code: Direct input

16. On the following screen, confirm "Own test plan" – "Direct input: action code for problem-related update" by pressing the Next arrow (bottom right).
17. On the following screen select the screen button to activate the screen keypad.

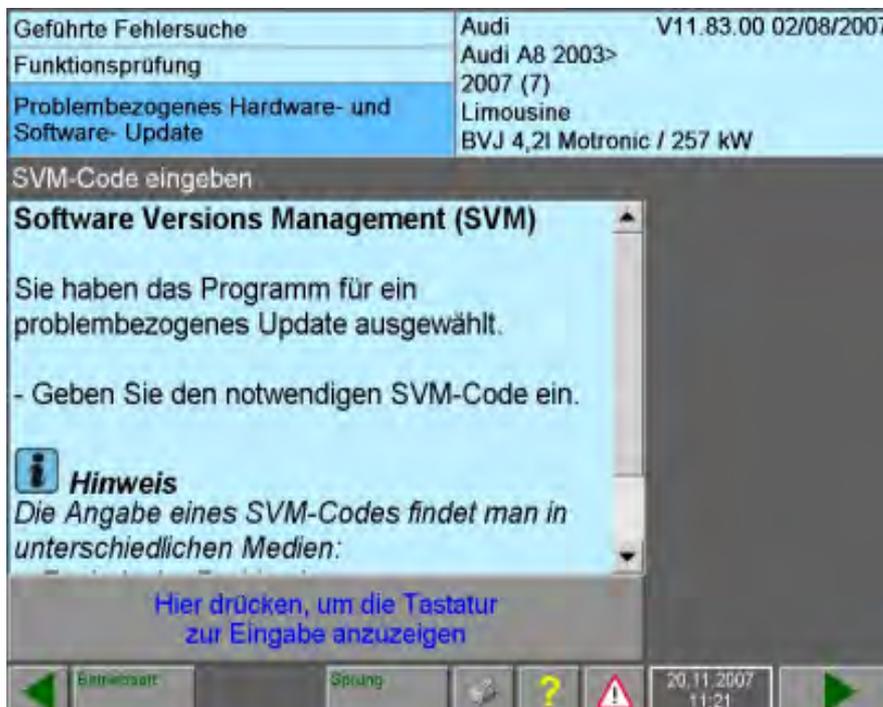


Figure 30: Activating the screen keypad

18. Then enter the SVM code listed in the TPL and press the Q key to confirm.



Figure 31: Entering SVM code

19. Then press Next arrow (bottom right).

20. The data for the vehicle's control units will then be read.

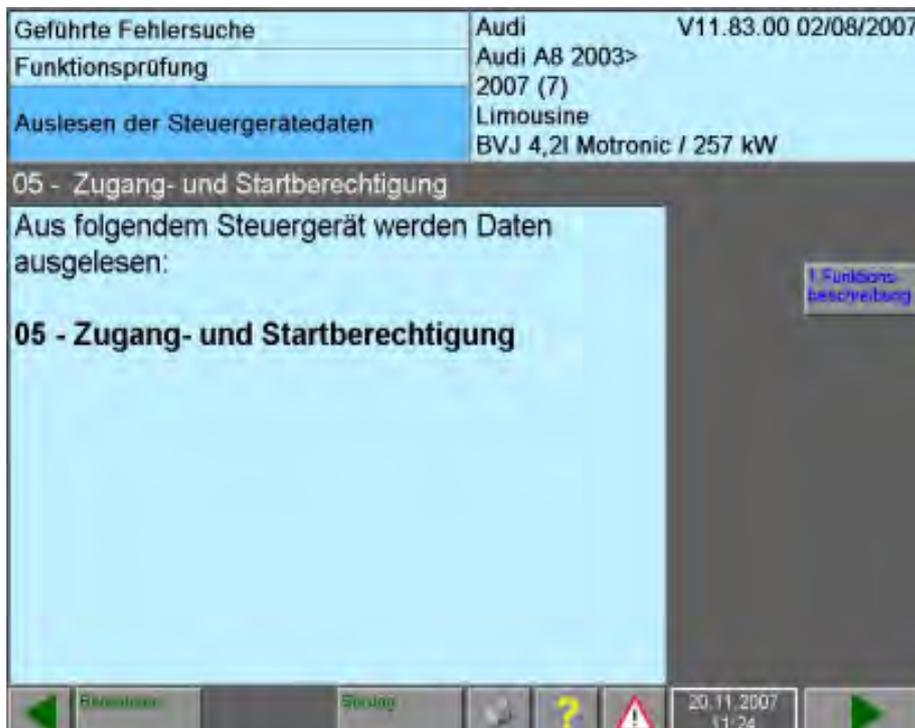


Figure 32: Reading the control unit data from the vehicle

21. Please enter your SeCo (GeKo) user ID.



Figure 33: SeCo user ID

22. Please enter your SeCo (GeKo) password.

23. To set up an online connection please press the "Done" button.

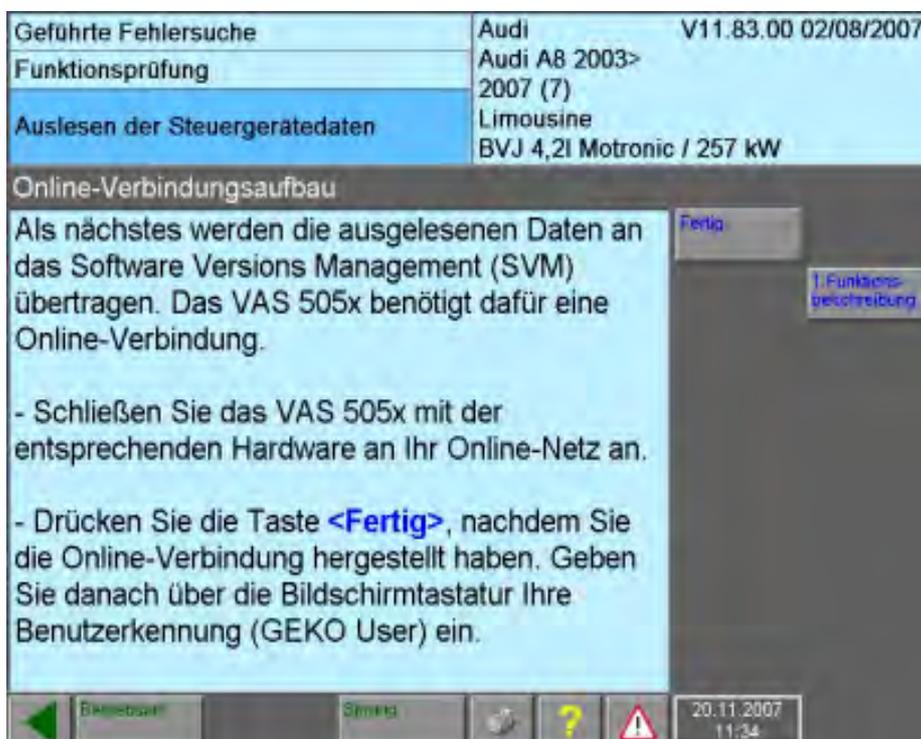


Figure 34: Establishing an online connection

24. The data will now be transmitted and evaluated.

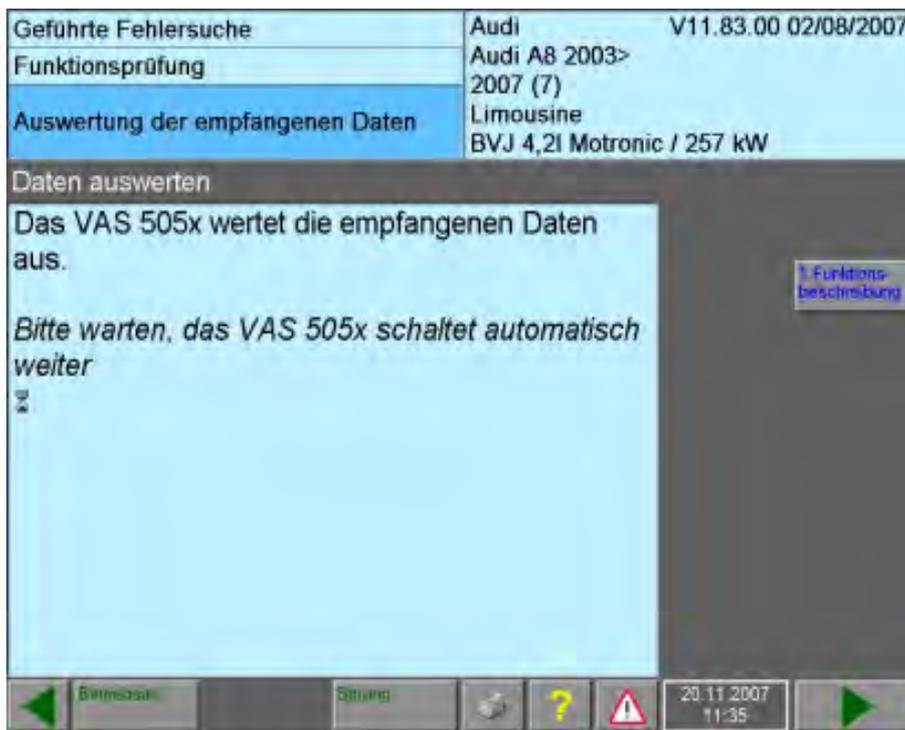


Figure 35: Transmitting and evaluating data

25. You will then receive a feedback message from SVM (Software Versions Management).



Figure 36: Feedback message from Software Versions Management

If applicable, you will receive a feedback message to inform you that not all components have accepted the update programming. Should this occur, please go through all steps once again, starting with chapter 0. You can find information about possible feedback messages and associated procedures in the SOST documentation, March 2007 (in the Audi Servicenet under Technology – Product support – Electrical).

26. Exit Guided Fault Finding via the "Go to" function "Quit".



Figure 37: Quitting Guided Fault Finding

27. The fault memories of all control units will now automatically be erased.
28. When you quit the programme, answer the questions regarding workshop order number, chassis number and success of the repair work.
29. Transmit your answers via the workshop network.
30. Switch off the ignition.
31. If satellite reception is poor (e.g. in the workshop) update programming may result in the navigation system losing its location details. For this reason, please check that the navigation system (if fitted) is functioning correctly. To do so, press the "NAV" button to switch to the navigation menu.

32. Activate the map display via the bottom right control button, located next to the rotary pushbutton (see illustration in chapter 0; button ⑤). If a map with the correct vehicle position is displayed, the navigation system has been initialised and you can leave out the next step.
33. If the display only shows an arrow on an empty map, the vehicle must be left standing in the open with the MMI switched on for about 5-10 minutes.

Update programming has now been completed. Remove the update CD from the vehicle. The CD can be used for updates in other vehicles.

Thank you very much!

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