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## Updates

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Always use the most recent firmware for this device.

Please visit the TEAC web site (<http://audio.teac.com/support/downloads/>) to check for the latest firmware.

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## New function

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### V.1.20 addition

- Gapless playback of audio files (WAV/FLAC/DSD) saved on an SD card is now supported.

**NOTE**

For details, please see "New function in firmware V1.20" in the HA-P90SD Addendum.

### V.1.10 addition

- Output of 2.8MHz DSD signals using DoP is now supported.

### V.1.03 addition

- Support has been added for file names and tag information that contain Chinese fonts so they can be shown in song names on the PLAY screen and various lists on the MUSIC screen.

**NOTE**

For details, please see "New function in firmware V1.03" in the HA-P90SD Addendum.

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## Maintenance items

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### Fix in firmware version V.1.20

- Some Android devices could not be connected. This has been fixed.
- Operation stability has been improved.

### Fix in firmware version V.1.10

- Operation stability has been improved.

### Fix in firmware version V.1.04

- The unit would freeze when rescanning some SD cards with v2.2 ID3 tag data. This has been fixed.

### Fixes in firmware version V.1.03

- Some WAVE files became noisy when they were played back. This has been fixed.
- The set volume level when MAX VOL was set to EAR PROTEC was not suitable. This has been fixed.
- Operation stability has been improved.

### Fixes in firmware version V.1.02

- The scrolling speed on the MUSIC screen has been improved.
- Some playlists made on a Mac were not recognized. This has been fixed.
- Some files with names containing full-width lowercase characters were not recognized. This has been fixed.
- Operation stability has been improved.

### Fixes in firmware version V.1.01

- "Unknown" no longer appears for tag information of files created in FLAC format.
- Albums with files created in FLAC format can now be properly shown in track number order.
- Operation stability has been improved.

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## Checking the firmware version

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Before starting a firmware update, check the firmware version of the HA-P90SD that you are using.

### **1** Turn the unit on.

### **2** Use the multiway button to select **SETTINGS**, and then press the multiway button.

The SETTINGS menu will open.

### **3** Use the multiway button to select **OTHERS**, and then press the multiway button.

The OTHERS submenu will open.

### **4** Use the multiway button to move the cursor down and show the **ABOUT** item. "VER x.x.x." shows the current firmware version.

Version numbers are shown in the following manner.

"VER 1.0.0" is version 1.00.

"VER 1.0.1" is version 1.01.

Updating is not necessary if the version number shown here is the same or newer than the firmware version of the planned update.

## Firmware update procedures

### Precaution before updating

When conducting a firmware update, be sure that remaining battery power is sufficient or that power is being supplied by the recommended TASCAM PS-P515U AC adapter (sold separately). The unit will not allow updating if the remaining battery power is low.

### Precautions when updating to V1.02 and newer versions

- The dedicated driver for Windows playback must also be updated to V1.0.0.1.
- See the "Installation guide for the HA-P90SD USB DRIVER" for driver installation procedures.
- After updating to V1.02 or a newer version from V1.00 or V1.01, check the USB charging function ON/OFF setting. Set the USB CHR item in the OTHERS menu on the SETTINGS screen as follows.
  - ON to enable USB recharging
  - OFF to disable USB recharging

## Update procedures

### 1 Download the file and decompress it.

Download the latest version of the firmware from the TEAC website (<http://audio.teac.com/support/downloads/>). If the downloaded file is in ZIP format or another compressed file type, decompress it.

- Do not change the file name.

### 2 Copy the updater file to a microSD card.

- 1) Insert a microSD card into the unit and turn it on. When the Home Screen opens, connect the unit to a computer using the included USB cable. The computer recognizes the unit as an external drive (mass storage device).
- 2) Create a new folder named "UTILITY" in the root directory of the unit.
  - Do not use Japanese, Chinese or other multi-byte characters when creating the folder.
  - If a UTILITY folder already exists, this step can be skipped.
- 3) Copy the downloaded firmware updater ("HA-P90SD-b59.101" for V1.01) to the UTILITY folder.
- 4) After copying completes, follow the proper procedures to disconnect the unit from the computer and then turn the unit off. Do not remove the microSD card with the copied firmware from the unit before continuing with the following procedures.

### 3 Update the firmware.

- 1) While sliding the multiway button toward the top of the unit, turn the unit on.
- 2) When "UPDATE MODE" appears on the screen, release the multiway button.
- 3) The unit launches in update mode and the updater file is shown on the screen.



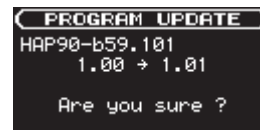
#### NOTE

- If this message does not appear on the screen, turn the power off once. Then, while sliding the multiway button toward the top of the unit, turn the unit on again. Keep sliding the multiway button toward the top of the unit until "UPDATE MODE" appears.
- If you copied the firmware file to the UTILITY folder on this unit from a Mac, another file named with "\_" before the firmware name might appear. Select the file without "\_" in this case.

#### NOTE

This screen shows a list of firmware update files in the UTILITY folder on the unit. The firmware copied in step 2 above should also be shown. "No Update File" will be shown if no update files are available.

- 4) Use the multiway button to select the firmware, and then press the multiway button. The screen shown below will appear.



The current version number is shown on the left and the update version number is shown on the right.

#### NOTE

This screen is an example. The actual version numbers shown might differ.

- 5) Press the multiway button to start the update.
- 6) After the update completes and "Update Complete" appears on the display, the unit will turn itself automatically. Turn the power/volume knob to the OFF position.

### 4 Confirm the result of the update.

Refer to "Checking the firmware version" and check that "VER x.x.x" is the latest firmware.

This completes the procedures to update the unit.

Connect the unit to a computer by USB and delete the firmware update file in the UTILITY folder on the unit.