Inserting and removing SD cards

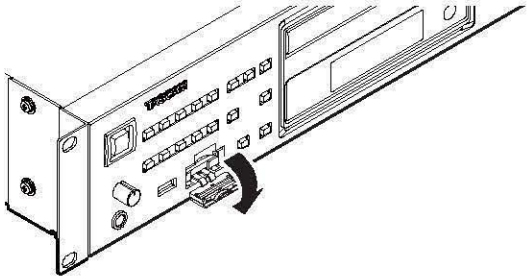
Inserting SD cards

To use an SD card with this unit for playback/dubbing, insert the SD card into the SD card slot on the front panel.

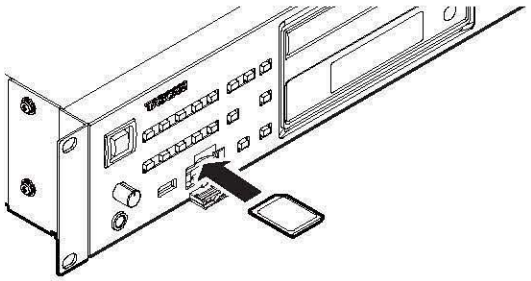
NOTE

You can insert an SD card regardless of whether the power is ON or OFF.

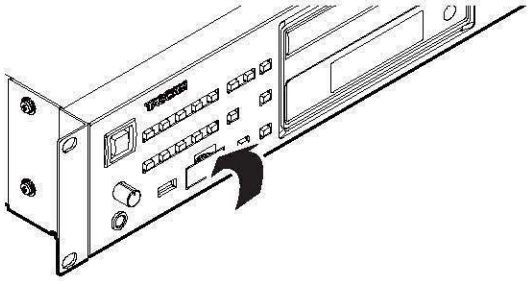
1. Pull the SD card slot cover forward to open it.



2. Insert the SD card with the correct orientation.
   The label side should be up and the connector end should be inserted first.



3. Close the card slot cover.



NOTE

If the SD card slot cover will not close, remove the SD card once and then reinsert it.

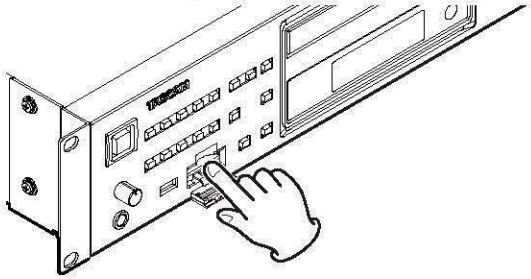
Removing SD cards

Turn the power OFF or stop operation before removing an SD card.

CAUTION

Never remove an SD card when this unit is operating (playing back, writing data to the SD card, etc.). Doing so could, for example, cause dubbing to fail, data to be lost or sudden loud noises from monitoring equipment, which might damage the equipment or harm your hearing.

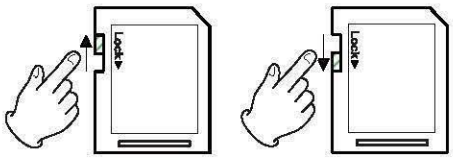
1. Pull the SD card slot cover forward to open it.
2. Press the SD card in gently to make it eject partially.



3. Grasp the SD card and pull it out.

SD card write-protection switches

SD cards usually have write-protection switches.



Writing possible Write-protected

When the write-protection switch is shifted to the "LOCK" position, dubbing and folder erase operations are not possible. To use the dubbing (copying) and folder erase functions, make sure write-protection is unlocked.

This unit saves direct folder settings on SD cards. These settings cannot be written to an SD card that has its write-protection switch set to LOCK. If the SD card is locked, these settings will be lost when the media is removed and the power is turned OFF. (See "Saving direct folder settings" on page 33.)

Connecting and disconnecting USB flash drives

Connecting USB flash drives

To use a USB flash drive with this unit for playback and dubbing, insert it into the USB port.

NOTE

You can insert a USB flash drive anytime regardless of whether the power is ON or OFF.

Disconnecting USB flash drives

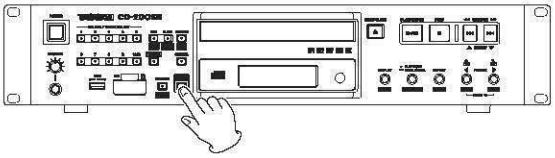
Turn the power OFF or stop operation before disconnecting a USB flash drive.

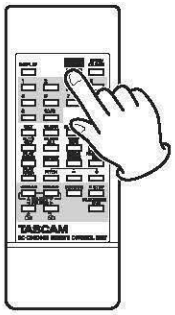
CAUTION

Never remove a USB flash drive when this unit is operating (playing back, writing data to the USB flash drive, etc.). Doing so could, for example, cause dubbing to fail, data to be lost or sudden loud noises from monitoring equipment, which might damage the equipment or harm your hearing.

Selecting the playback media

Press the **MEDIA SELECT** button on the main unit or the remote control to select the media played back by the main unit.





Cycle through the current media options in the following order.

→ CD → SD → USB

The icon for the selected current media (CD / SD / USB) is shown in the current media indicator area of the display.

NOTE

- *The SD / USB icons will not appear if the corresponding media has not been loaded (they cannot be selected).*
- *Whenever the current media type is changed, the previously selected media will stop if it was playing back or paused. (For example, when the current media is changed from CD to another type of media, the CD will stop if it was playing back or paused.)*
- *Even if the current media is changed, the playback mode setting, current folder and program contents will not be erased.*

In this chapter, we explain playback functions that can be used with tracks on audio CDs and audio files on data CDs, SD cards and USB flash drives.

The following explanations assume that a CD, SD card or USB flash drive that contains audio files/tracks has been loaded in this unit, the power is ON and the current media has been selected appropriately. (See "Selecting the playback media" on page 20.)

Playable media and files

This unit can play back the following types of media and files.

■ CD-DA (audio CD) format discs

Music CDs that are commercially available and CD-R and CD-RW discs that have been recorded as audio CD format can be played. In this manual, these types of discs are called "audio CDs."

■ Data CDs

This unit can play back CD-ROM/R/RW discs with MP3, MP2 and WAV files in ISO 9660 Level 1, Level 2 and Joliet formats. In this manual, these types of discs are called, "data CDs."

NOTE

This unit cannot read CD-R discs that have not been finalized.

■ SD cards and USB flash drives

In addition to files (WAV, MP3) dubbed using this unit, this unit can also play back audio files that have been recorded by other devices or written using a computer or another audio device if they are in the following formats.

Playable file types and their file extensions

AAC	.3gp .m4a .mp4
MP2	.mp2
MP3	.mp3
WAV	.wav
WMA	.asf .wma

NOTE

- ***For details about playable sampling frequencies and bit rates, see "Playback file formats" on page 47.***
- ***The sampling frequency of this unit's digital output is always 44.1 kHz regardless of the playback media/file sampling frequency. Digital output is possible when pitch control is ON, but the sampling frequency is altered in proportion to the pitch control value. When the pitch control function is ON, therefore, some equipment might not be able to receive the digital output of this unit.***
- ***This unit's display can only show single-byte characters (alphabet and numbers). File with names that use Japanese, Chinese or other double-byte characters can be played back, but those characters will be shown as _ on the display.***
- ***This unit identifies MP3 and MP2 files by their ".mp3" and ".mp2" file extensions. This unit cannot play MP3/MP2 files that do not have the correct ".mp3" and ".mp2" file extension, so always include these file extensions at the ends of MP3/MP2 file names. This unit cannot play files that are not in the MP3/MP2 data format even if they have an ".mp3" and ".mp2" file extension.***
- ***The unit identifies WAV files with the ".wav" file extension. This unit cannot play WAV files that do not have the ".wav" file extension, so always include the ".wav" file extension at the end of the name of an WAV file. The unit cannot play files that are not in the WAV data format even if they have the ".wav" file extension.***
- ***Data CDs with more than 999 files or 513 folders might not play correctly.***
- ***Depending on disc conditions, this unit might not be able to play some discs, or skips in the sound might occur.***

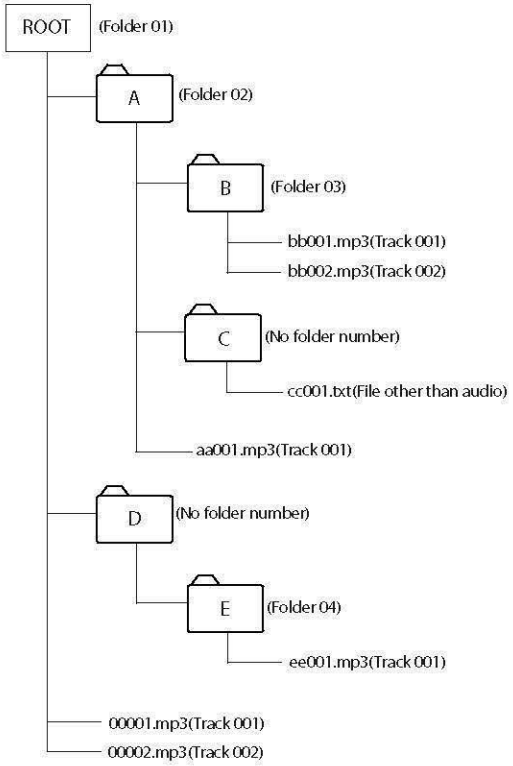
Folders and tracks on data CDs, SD cards and USB flash drives

This unit treats all the audio files on data CDs, SD cards and USB flash drives as "tracks". Some data CDs store files inside folders in the same way that computers usually do. In addition, multiple folders can be stored inside another folder creating a multilevel structure. (The maximum number of folder levels is 16.)

You can use this unit's folder search function to look for audio files among multiple folders. Searching starts from high-level folders and then moves to lower-level subfolders.

If there are audio files in the root directory of a data CD, this root directory is also treated as a folder.

Folders that do not directly contain audio files will be ignored when searching folders. For example, folders C and D in the illustration below would be ignored when searching folders.



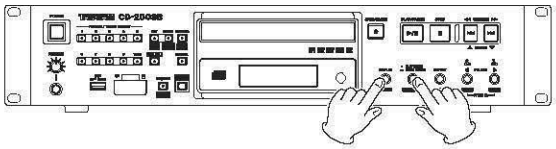
Example of a folder and file structure of a data CD, SD card or USB flash drive

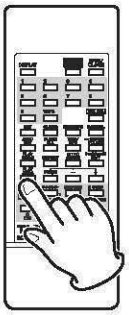
Playback area

You can set the area to be used for playback (PLAY AREA setting). Follow the procedures below to set the playback area.

Setting the playback area

While pressing and holding the main unit **DISPLAY [SHIFT]** button, press the **PLAY MODE/INTRO CHECK [PLAY AREA]** button, or press the remote control PLAY AREA button to set the playback area.





The selected playback area is shown as follows in the main display area for about two seconds and then disappears. Depending on the selected playback area, the FOLDER indicator might also appear on the display.

Main display area	FOLDER indicator	Meaning
ALL PLAY	Not shown	All files on the current media will be played back.
FOLDER	Shown	All files in the selected folder on the current media will be played back.

Playback modes

This unit can play back tracks using the following four playback modes.

Continuous playback mode (default setting)

Tracks on the current media are played back in numerical order.

NOTE

When the current media is a CD, SD card or USB flash drive and the playback area is set to FOLDER, tracks in the current folder are played back in numerical order.

Single playback mode

The selected track on the current media is played back once and then playback stops.

Random playback mode

The tracks on the current media are played back in random order regardless of their track numbers. Playback stops after all tracks have been played.

NOTE

- ***When the current media is a CD, SD card or USB flash drive and the playback area is set to FOLDER, tracks in the current folder are played back randomly. (See "Folder playback (data CDs/SD cards/USB flash drives)" on page 25.)***
- ***A maximum of 65535 tracks can be played back randomly from an SD card or USB flash drive. If the playback area is ALL PLAY and there are more than 65535 tracks in the playback area, tracks numbered higher than 65535 will not be played back.***

Program playback mode

The programmed tracks are played back in program order. See "Programmed playback" on page 25 for details.

Selecting the playback mode

Press the main unit **PLAY MODE/INTRO CHECK [PLAY AREA]** button or the remote **PLAY MODE** button to cycle through the playback modes. During playback, however, you can only switch among continuous, single and random playback modes.

To select programmed playback, press the main unit **PLAY MODE/INTRO CHECK [PLAY AREA]** button or the remote **PLAY MODE** button when playback is stopped.

The currently selected playback mode is shown on the display as follows.

Indicator	Playback mode
No indicator	Continuous playback mode
SNGL	Single playback mode
RAND	Random playback mode
PROG	Program playback mode

The selected playback mode is retained even when the power is turned off.

NOTE

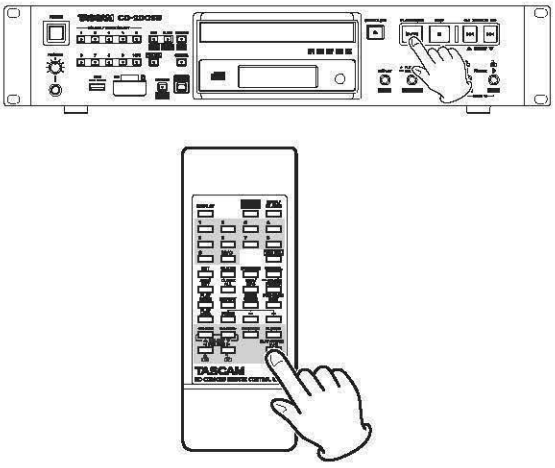
Immediately after pressing the **PLAY MODE/INTRO CHECK [PLAY AREA]** *button on the main unit or the* **PLAY MODE** *button on the remote control, the selected mode is shown on the main display area as follows.*

Continuous playback mode set: CONTINUE
Single playback mode set: SINGLE
Random playback mode set: RANDOM
Programmed playback mode set: PROGRAM

Playback

The following procedures assume that the necessary connections have been completed, the unit's power has been turned ON and the media has been loaded.

To start playback, press the **PLAY/PAUSE** button on the main unit or the remote control.



■ Stopping playback

Press the **STOP** button on the main unit or the remote control.

■ Pausing playback

Press the **PLAY/PAUSE** button on the main unit or the remote control.

In this manual, unless stated otherwise, explanations are given assuming that the playback mode is continuous. (See "Playback modes" on page 22.)

Selecting a track

There are two ways to select a track. You can move (skip) to the previous or next track, or you can select a track directly by its track number.

Skipping to the next or previous track

Use the main unit **SEARCH ◄◄/►► [I◄◄/►►I, SELECT ▲/▼]** buttons or the remote search (**◄◄/I◄◄ [SELECT ▲]** and **►►I/►► [SELECT ▼]**) buttons to skip to tracks.

After selecting the track, press the **PLAY/PAUSE** button on the main unit or the remote control to start track playback.

NOTE

If you press the main unit **SEARCH ◄◄/►► [I◄◄/►►I, SELECT ▲/▼]** *buttons or the remote search (* **◄◄/I◄◄ [SELECT ▲]** *and* **►►I/►► [SELECT ▼]**) *buttons during playback, playback will resume after skipping tracks.*

Selecting by track number

You can select tracks directly for playback by number. After pressing the **TRK SEL** button on the main unit or the remote control to light the **TRK SEL** indicator, use the number **(1–10/0)** buttons on the main unit or the remote control to select tracks.

Track numbers can have up to two digits for audio CDs and up to three digits for data CDs, SD cards and USB flash drives.

1. Press the **TRK SEL** button on the main unit or the remote control to light the **TRK SEL** indicator on the main unit.
2. Use the main unit **FOLDER/TRACK SELECT (1–10/0)** buttons or the remote number **(1–10/0)** buttons to input the track number. Enter the track number starting from the largest digit.
   To select track 1:
   Press the **1** button one time.
   To select track 12:
   Press the **1** button followed by the **2** button.
3. Press the **PLAY/PAUSE** button on the main unit or the remote control. The selected track begins to play.
   If you press the **STOP** button on the main unit or the remote control, the display stops showing the track number input and the display returns to its previous state.

NOTE

- *The highest track number that can be shown during playback is 999. – – – will appear for track numbers higher than 999.*
- *When the playback area is set to* ALL PLAY, *use the* **FOLDER ◄/►** *buttons on the main unit or the remote control to skip between folders.*
- *When in program or random mode, you cannot use the number* **(1–10/0)** *buttons to select tracks.*
- *To use the main unit* **FOLDER/TRACK SELECT (1–10/0)** *buttons or the remote number* **(1–10/0)** *buttons for direct folder selection, press the* **TRK SEL** *button on the main unit or the remote control to make the main unit* **TRK SEL** *indicator unlit.*

Search forward and backward

You can search forward and backward in a track while listening to it.

1 Play or pause the desired track.

2 Press and hold a **SEARCH ◄◄/►► [I◄◄/►►I, SELECT ▲/▼]** button on the main unit or a search (**◄◄/I◄◄ [SELECT ▲]** or **►►I/►► [SELECT ▼]**) button on the remote control to start searching forward or backward.

3 Release the button that you are holding to stop searching and return the unit to the state it was in before searching (playback or pause).

NOTE

Audio files on data CDs, SD cards and USB flash drives can also be searched forward and backward.

Folder playback (data CDs/SD cards/ USB flash drives)

With data CDs, SD cards and USB flash drives, you can set the selected folder (current folder) as the playback area. Follow the procedures below to set the playback folder. You can also set the playback area to be all the tracks/files on the current media by selecting ALL PLAY.

Setting the playback folder

1. While pressing and holding the main unit **DISPLAY [SHIFT]** button, press the **PLAY MODE/INTRO CHECK [PLAY AREA]** button (or press the remote PLAY AREA button) to set the playback area to FOLDER.
2. Use the main unit **FOLDER ◀/▶ [PITCH –/+, 🗀/🗀]** buttons or the remote **FOLDER ◀/▶ [🗀/🗀]** buttons to skip to the previous or next folder.
   This will skip to the beginning of the first track in the previous or next folder. If you hold down one of these buttons, you can skip through folders continuously in order.

NOTE

- *When you skip to a different folder, it becomes the current folder.*
- *During folder playback, repeat playback will play back all tracks inside the current folder repeatedly.*
- *During folder playback, random playback will play back all tracks inside the current folder randomly.*

Programmed playback

To use programmed playback, you must set a program either before or after setting the playback mode to programmed playback mode. (See "Selecting the playback mode" on page 23.)

When in programmed playback mode, press the **PLAY/PAUSE** button on the main unit or the remote control to start playback of the set program in order from the first track (program step 01).

Press the main unit **SEARCH ◀◀/▶▶ [⏮/⏭, SELECT ▲/▼]** button or the remote search (**◀◀/⏮ [SELECT ▲]** or **⏭/▶▶ [SELECT ▼]**) button to skip to the previous or next program step.

When playback is stopped in program playback mode using an audio CD, the total number of tracks in the program and the total program time are shown.

When using a data CD, only the program number is shown.

When using an SD card or USB flash drive, the number and time of the track being played back are shown.

NOTE

- *To select programmed playback, when stopped, press the main unit* **PLAY MODE/INTRO CHECK [PLAY AREA]** *button or the remote* **PLAY MODE** *button.*
- *When using a data CD, SD card or USB flash drive, you cannot set a program when the playback area is* ALL PLAY. *Change the playback area to* FOLDER *to enable tracks in the current folder to be used in the program.*

Setting the program

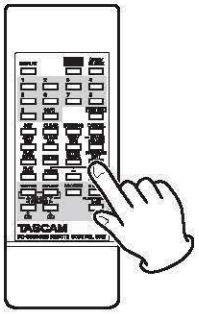
When no program is set, follow the procedures below to set a program using the remote control.

You can set programs independently for each type of media (CD/SD card/USB flash drive).

NOTE

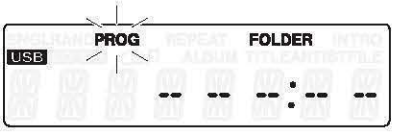
- *The program cannot be set from the main unit.*
- *You can set a program at any time regardless of the current playback mode.*
- *The maximum number of tracks that can be programmed with data CDs, SD cards and USB flash drives is 999.*
- *CD programs are cleared when the disc tray is opened or the current folder is changed.*
- *SD card and USB flash drive programs are cleared when the media is disconnected. Programs are also cleared when the dubbing (copying) or folder erase function is used, when the current folder is changed and when direct folder playback is used in program playback mode (PROG indicator appears).*

1. Press the remote **PROGRAM EDIT** button when playback is stopped.



The unit enters program setting mode. If no program has been set, it will be possible to choose a track for program step 01 (PROG indicator blinks).

Audio CD example



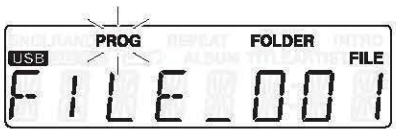
USB flash drive example

NOTE

If the program is already set, the track number of the track set as program step 01 is shown.

2. Use the remote number **(1–10/0)** buttons or search (◄◄/I◄◄ **[SELECT ▲]** and ►►I/►► **[SELECT ▼]**) buttons to select a track to set as program step 01 (PROG and the track number blink).
Use the number **(1–10/0)** buttons to input the number starting with the largest digit.

Audio CD example

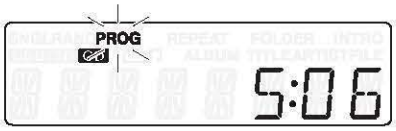


USB flash drive example

NOTE

- *When using a data CD, SD card or USB flash drive, the screen switches to file name display if more than a second passes after pressing one of the remote number* **(1–10/0)** *or search (◄◄/I◄◄* **[SELECT ▲]** *and ►►I/►►* **[SELECT ▼]***) buttons, but you can still add the track to the program.*
- *If you press the* **STOP** *button while a track is selected, selection of that track is canceled, and the screen returns to the state where you can select a track.*

3. Press the remote **PROGRAM EDIT** button to add the selected track as program step 1.



4. The unit is now ready for you to add another track as the next program step.
5. If you are finished adding tracks to the program, press the remote **PROGRAM EDIT** button when the empty program step is shown.
The unit exits program setting mode.

NOTE

- *The same track can be added to the program multiple times.*
- *If you press the* **STOP** *button when the empty program step where it is possible to add a track appears, all steps in the program are cleared.*
- *If you try to add more than 99 tracks, a PGM FULL error message appears. Only 99 tracks can be added.*

Checking the program

You can check the contents of the program.

1. Press the **PROGRAM EDIT** button on the remote control while playback is stopped to put the unit into program setting mode.
   The track number and playback time of the track set as program step 01 is shown on the screen and PROG blinks. (Playback time is not displayed when using a data CD, SD card or USB flash drive.)

2. Press the **PROGRAM EDIT** button to show the track information of the next program step.

3. If you press the **PROGRAM EDIT** button when the final program step is shown, it becomes possible to add another program step. (No track number is shown and PROG blinks.)

4. Press the **PROGRAM EDIT** button again to exit the program setting mode.

Replacing a program track

You can replace a track that has already been added to the program.

1. Press the **PROGRAM EDIT** button on the remote control while playback is stopped to put the unit into program mode.
2. Follow the steps in "Checking the program" above and press the **PROGRAM EDIT** button to show the program step with the track that you want to replace.
3. Use the remote number **(1–10/0)** buttons or skip (◄◄/I◄◄ **[SELECT ▲]** and ►►I/►► **[SELECT ▼]**) buttons to select the desired track and press the **PROGRAM EDIT** button.
   After replacing a track, the display shows the empty step at the end of the program and you can add another track to the end of the program if desired.
4. Press the **PROGRAM EDIT** button again to exit program setting mode.

Adding more program tracks

You can add tracks to the end of an already set program.

1. Press the **PROGRAM EDIT** button on the remote control while playback is stopped to activate program setting mode.
2. Press and hold the **PROGRAM EDIT** button until the empty program step where it is possible to add a track appears. (No track number is shown and PROG blinks.)
3. Use the remote number **(1–10/0)** buttons or skip (◄◄/I◄◄ **[SELECT ▲]** and ►►I/►► **[SELECT ▼]**) buttons to select the track to add and press the **PROGRAM EDIT** button.
4. In this state, you can repeat step 3 to add more tracks, or you can press the **PROGRAM EDIT** button to exit program setting mode.

CAUTION

- ***Although tracks can be added to the end of a program and tracks can be replaced with different tracks, tracks cannot be inserted into the middle of a program.***
- ***If you want to insert a track into the middle of the program, replace and add program tracks to alter the program contents.***

Clearing the program

You can clear the entire program that has been set.

1. Press the **PROGRAM EDIT** button on the remote control while playback is stopped to activate program setting mode.
2. Press and hold the **PROGRAM EDIT** button until the empty program step where it is possible to add a track appears. (No track number is shown and PROG blinks.)
3. Press the remote **STOP** button.
   -CLEAR- appears on the display. After clearing completes, program setting mode resumes with the empty program.

In addition to the above procedure, opening the disc tray or removing the media also clears the program.

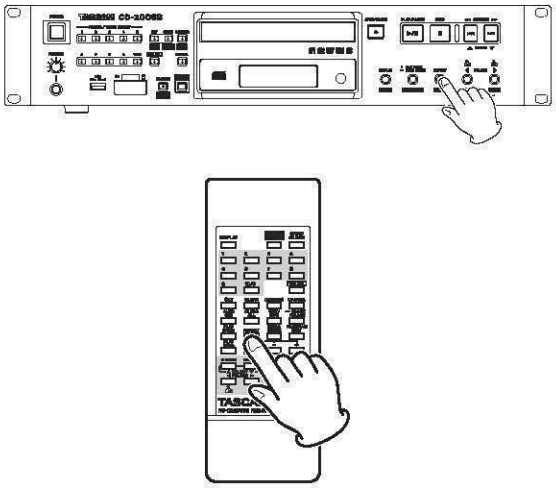
NOTE

- ***CD programs are cleared when the disc tray is opened or the current folder is changed.***
- ***SD card and USB flash drive programs are cleared when the media is disconnected. Programs are also cleared when the dubbing (copying) or folder erase function is used, when the current folder is changed and when direct folder playback is used in program playback mode (PROG indicator appears).***

Repeat playback

You can play back all the tracks in the playback area repeatedly.

Press the main unit **REPEAT [PITCH]** button or the remote **REPEAT** button to turn the repeat playback function ON/OFF.



Repeat ON (REPEAT indicator appears)

All tracks are played back repeatedly.

Repeat OFF (no indicator)

Repeat playback is OFF.

NOTE

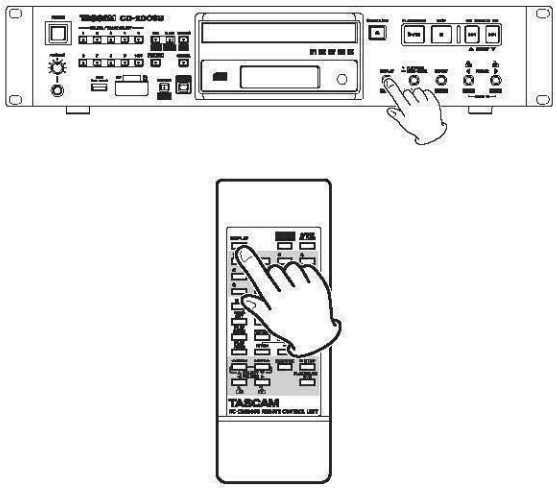
- *With data CDs, SD cards and USB flash drives, during folder playback all tracks within the current folder will be played back repeatedly. During program playback, all tracks within the program will be played back repeatedly.*
- *If the repeat playback function is turned ON during playback, playback continues as is until the end and then playback continues from the beginning.*
- *If repeat playback is turned ON when stopped, repeat playback begins when the* **PLAY/PAUSE** *button is pushed.*
- *The repeat playback function's ON/OFF state is retained even when the power is turned OFF.*

Time and text information display

You can set what type of time and text information is shown on the display.

Press the **DISPLAY [SHIFT]** button on the main unit or the **DISPLAY** button on the remote control to show for two seconds the type of information (playback time or text information) that is currently set to appear in the main area of the display. Press this button again while this is being shown to change the type of information displayed.

The types of data that can be shown when changing the display depend on the type and status of the current media or loaded disc, as well as this unit's operation status.



■ Audio CDs with CD text

When playing back or paused, you can change the information shown on the display, cycling through track elapsed time, track remaining time, total remaining time, track title and track artist.

When stopped, you can also change the information shown, but the album title, album artist and total number of tracks and total playback time are shown.

■ Audio CDs without CD text

When playing back or paused, you can change the information shown on the display, cycling through track elapsed time, track remaining time and total remaining time.

When stopped, you can also change the information shown, but the total number of tracks and total playback time are shown.

■ Data CD

When playing back or paused, you can change the information shown on the display, cycling through track elapsed time, track title, track artist and file name.

When stopped, you can still change the display mode from the track elapsed time to the album title.

When stopped, you can switch to the album title (current folder).

■ SD card/USB flash drive

When playing back, paused or stopped, you can change the information shown on the display, cycling through track elapsed time, track remaining time, title, artist and file name.

NOTE

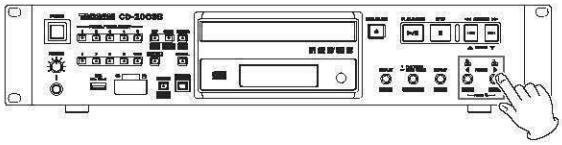
- *After pressing the* **DISPLAY [SHIFT]** *button on the main unit or the* **DISPLAY** *button on the remote control, the currently selected type of information to be shown on the main display appears for two seconds as follows.*

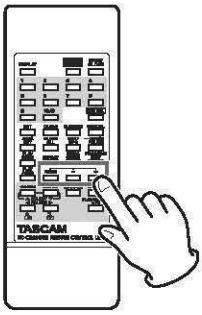
Track elapsed time:	ELAPSED
Track remaining time:	REMAIN
Total remaining time:	T REMAIN
Album/track title:	TITLE
Album/track artist:	ARTIST
File name:	FILENAME

- *The text information that can be shown on the display is CD text information for audio CDs, ID3 tag information for data CDs and ID3, WMA and AAC tag information for SD cards and USB flash drives.*
  When information is not included for a disc or file, NO TITLE *(title information) or* NO NAME *(artist information) is shown. If the information contains characters that cannot be displayed, those characters are replaced by _.*
- *When an audio CD is in programmed playback mode the elapsed time and remaining time of the entire program is shown.*
- *The display contents setting is retained even when the power is turned off.*
- *The number of songs and track numbers within a folder might not match on SD cards and USB flash drives that have been written on by a Mac. This is an existing problem with Mac system files, but it will not affect playback on this unit.*

Pitch control (with CDs only)

Using pitch control playback, CDs can be played back at a different pitch (sound frequency and playback speed).
Follow the procedures below to use pitch control playback.





1. Press the **REPEAT [PITCH]** button while pressing and holding the **DISPLAY [SHIFT]** button on the main unit or press the **PITCH** button on the remote control to turn pitch control ON. The current pitch control value is shown at this time.

2. Use the **FOLDER ◀/▶ [PITCH –/+, ⏫/⏬]** buttons while pressing and holding the **DISPLAY [SHIFT]** button on the main unit or use the **PITCH –/+** button on the remote control to set the pitch in 0.5% units in a range of ±14.0%.

- To turn pitch control playback OFF:
  Press the **REPEAT [PITCH]** button while pressing and holding the **DISPLAY [SHIFT]** button on the main unit or press the **PITCH** button on the remote control.

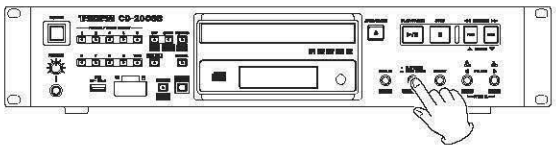
NOTE

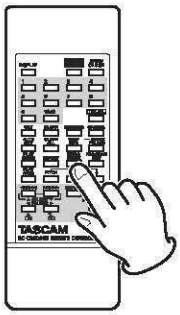
- *During playback, turning pitch control playback ON or OFF might cause the playback sound to skip momentarily.*
- *Using pitch control playback with a data CD (MP3, WAV) sometimes causes the playback sound to skip.*
- *Digital output is possible when the pitch control function is ON during playback of MP3 and WAV files on audio CDs, but the sampling frequency is changed by an amount proportional to the pitch control value. When pitch control is ON, therefore, some equipment might not be able to receive the digital output signal from the CD-200SB.*
- *The pitch control function cannot be used with SD cards and USB flash drives.*

Intro Check function

When stopped or during playback press and hold the main unit **PLAY MODE/INTRO CHECK [PLAY AREA]** button or press the remote **INTRO CHECK** button to play the first 10 seconds of each track one after another. The INTRO indicator appears when this function is active.

During intro check playback, press and hold the **PLAY MODE/ INTRO CHECK [PLAY AREA]** button on the main unit or the **INTRO CHECK** button on the remote to return to ordinary playback mode (**INTRO** disappears from the display).





- When using Intro Check, briefly press the main unit **SEARCH ◄◄/►► [I◄◄/►►I, SELECT ▲/▼]** buttons or the remote search (**◄◄/I◄◄ [SELECT ▲]** and **►►I/►► [SELECT ▼]**) buttons to skip to the preceding or next track.
- Press the **STOP** button to stop Intro Check.
- The intro check function can be used during program and folder playback modes.

Using this unit's browse function, you can examine the folder and file structure of SD cards and USB flash drives without need for a computer.

The name of the selected folder or file is shown on the display along with an icon that indicates its type.

You can search all the folders on the media, but this unit can only play back audio files with the following formats.

Audio file formats that this unit can play back

MP3, MP2, WAV, WMA, AAC
(WMA and AAC files can only be played back from SD cards and USB flash drives.)

The following information appears on the display when using this browse function.

Text characters

Shows the name of the selected folder or file.

Folder ( )

When a folder is selected, this icon appears above the text that shows the folder name.

Audio file ( )

When an audio file is selected, this icon appears above the text that shows the audio file name.

NOTE

The folder icon ( ) and audio file icon ( ) never appear at the same time.

Requirements for browsing

You can only browse the SD card or USB flash drive that has been inserted and selected as the current media.

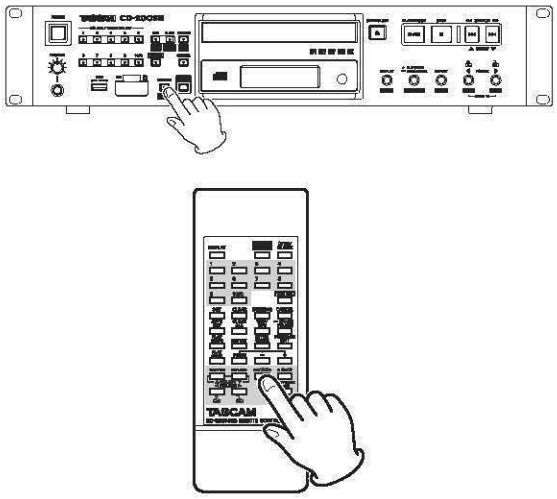
Information shown when browsing

- Audio files (determined by extension)
  Files other than audio files will not be shown.
- Folders

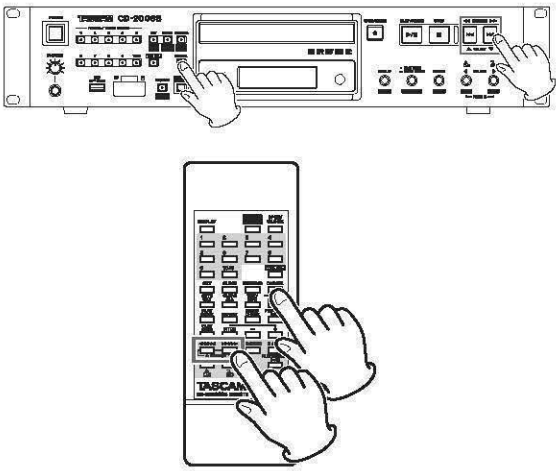
Browsing folders and files

Follow these procedures to move between and select folders and browse files.

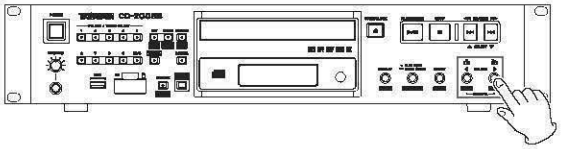
1. Press the main unit **BROWSE [ERASE FOLDER]** button or the remote **BROWSE** button to enter browse mode.
   When browse mode is active, the main unit **BROWSE [ERASE FOLDER]** and **CANCEL** indicators light.

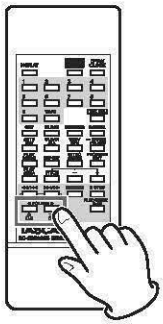


2. The name of the first folder or file at the top (root) level is shown in the main display area.
   To view other folders and files on the same level, use the main unit **SEARCH** ◄◄/►► **[**|◄◄/►►|**, SELECT** ▲/▼**]** buttons or the remote search (◄◄/|◄◄ **[SELECT** ▲**]** and ►►|/►► **[SELECT** ▼**]**) button to change the selection.
   Press the **CANCEL** button on the main unit or the remote to exit BROWSE mode.



3. To move down a level, select the folder (🗀) you want to open, and press the main unit **FOLDER ▶ [PITCH +, 🗀]** button or the remote **FOLDER ▶ [🗀]** button.
   After opening a folder, the first subfolder or track inside that folder is shown on the display.
   To move up a level (close the open folder), press the main unit **FOLDER ◀ [PITCH –, 🗀]** button or the remote **FOLDER ◀ [🗀]** button.
   After moving up a level, the folder that had been open will be the selected folder shown on the display.





NOTE

- *When a file is selected (♫), the main unit* **FOLDER ▶ [PITCH +, 🗀]** *button and remote* **FOLDER ▶ [🗀]** *button have no effect.*
- *When a folder or file in the top level (root) is shown, the main unit* **FOLDER ◀ [PITCH –, 🗀]** *button and remote* **FOLDER ◀ [🗀]** *button have no effect.*

4. When a file is selected (♫), press the **PLAY/PAUSE** button on the main unit or the remote control to start playback of that file.

TIP

- *If you enter browse mode during playback, the file being played back will be selected.*
- *Depending on the playback area setting, the playback area might change after selecting a file using the browse function.*
  When the playback area is set to `ALL PLAY`*, all files on the current media starting with the selected file will play back.*
  When the playback area is set to `FOLDER`*, the folder that contains the selected file will become the playback area.*

NOTE

- *In browse mode, all folders are shown, even folders that do not contain audio files or that are completely empty.*
- *Only files in formats that this unit can play are shown*
- *If you open a folder that does not contain any playable files,* `NO FILES` *will appear on the display.*
- *When the playback mode is set to random or program, playback is not possible in browse mode.*

You can assign folders on an SD card or USB flash drive to the main unit **FOLDER/TRACK SELECT (1–10/0)** buttons. When you press a button with an assigned folder, you can immediately select that folder on the SD card or USB flash drive and start playback.

A folder that has been assigned to a main unit **FOLDER/TRACK SELECT (1–10/0)** button using this function is called a "direct folder".

A maximum of 10 direct folders can be assigned.

NOTE

- *The direct folder function can only be used with SD cards and USB flash drives. It cannot be used with audio or data CDs.*
- *The main unit* **FOLDER/TRACK SELECT (1–10/0)** *buttons and the remote number* **(1–10/0)** *buttons can be used in the same way.*
- *You can assign direct folders to the main unit* **FOLDER/TRACK SELECT (1–10/0)** *buttons for each SD card and USB flash drive.*
- *You cannot mix the direct folder assignments of the main unit* **FOLDER/TRACK SELECT (1–10/0)** *buttons between an SD card and a USB flash drive.*

Saving direct folder settings

With this unit, direct folder assignments that have been made for the main unit **FOLDER/TRACK SELECT (1–10/0)** buttons (direct folder settings) are automatically saved to each SD card and USB flash drive.

This data is saved in a CD-200SB settings file named, "cd-200sb.dat" that is created in the root of each SD card and USB flash drive used with this unit.

Do not alter this settings file, because doing so could result in not being able to use the direct folder function correctly and other problems.

- This file is automatically saved when playback of the media is stopped.
- If settings are changed when playing back or paused, they will be saved automatically when playback is stopped.

During automatic saving, WRITING appears on the display. In addition, settings saved on media will be automatically read the next time the media is loaded (for example, when the power is turned ON), enabling use of direct folder settings for the **FOLDER/TRACK SELECT (1–10/0)** buttons quickly.

NOTE

- *If an SD card or USB flash drive is loaded in another CD-200SB unit, the direct folder settings saved on it will automatically be read from that media, enabling use of direct folder settings for the* **FOLDER/TRACK SELECT (1–10/0)** *buttons quickly.*
- *If a direct folder assignment has been changed during playback or when paused, be sure to stop playback once so that the setting can be saved to the media.*
- *If an SD card or USB flash drive is write-protected, the direct folder settings cannot be saved to that media. In this case,* PROTECT *will appear on the display for a few seconds before disappearing.*

- *If the media does not have enough open space, direct folder settings cannot be written to it. In this case,* FULL *will appear on the display for a few seconds before disappearing.*

- *If direct folder settings cannot be written to the media for the above reasons, they will be lost when this unit's power is turned OFF.*

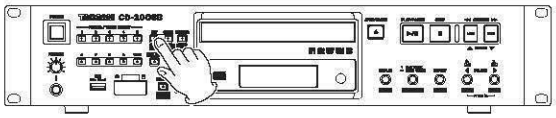
Assigning direct folders

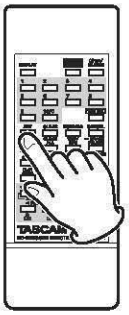
Using this function, folders on SD cards and USB flash drives can be assigned to the main unit **FOLDER/TRACK SELECT (1–10/0)** buttons as direct folders.

Assignments can either be made individually or automatically all at once. In either case the maximum number of assignments is 10.

Assigning direct folders individually

1. Press the **MEDIA SELECT** button on the main unit or the remote and select the media that contains the folder that you want to assign as a direct folder. (See "Selecting the playback media" on page 20.)
2. Press the main unit **SET [AUTO SET]** button or the remote **SET** button to enable direct folder setting mode.





When this mode is enabled, the main unit **SET [AUTO SET]** indicator lights, and SET and the name of the current folder appear on the display alternately.

The indicators for the **FOLDER/TRACK SELECT (1–10/0)** buttons that do not yet have direct folder assignments and the **CANCEL** indicator blink. The indicators for the **FOLDER/TRACK SELECT (1–10/0)** buttons that already have direct folder assignments light.
When the main unit **CANCEL** indicator is blinking, you can press the **CANCEL** button on the main unit or the remote to cancel assignment and return to ordinary playback mode.

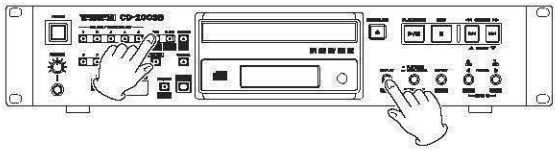
NOTE

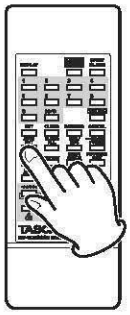
You can overwrite an existing direct folder assignment to change it. (See "Changing individual direct folder assignments" on page 35.)

3. Use the **FOLDER ◀/▶** buttons on the main unit or the remote control to select (show) the folder you want to assign as a direct folder.
   The current folder name shown on this display changes each time you change the selection.
4. Choose a **FOLDER/TRACK SELECT (1–10/0)** button that does not yet have a direct folder assignment (Indicator blinking) and press the button to assign the folder.
   After registration completes, DONE will appear on the display for a few seconds and then the unit will return to ordinary playback mode.

Automatically assign all direct folders (AUTO SET)

1. Press the **MEDIA SELECT** button on the main unit or the remote and select the media that contains the folders that you want to assign as direct folders. (See "Selecting the playback media" on page 20.)
2. When stopped, press the **SET [AUTO SET]** button while pressing and holding the main unit **DISPLAY [SHIFT]** button or press the remote **AUTO SET** button to enter direct folder AUTO SET mode.





When this mode is enabled, the main unit **SET [AUTO SET]** indicator blinks, and AUTO SET appears on the display.

3. Press the main unit **SET [AUTO SET]** button or the remote **AUTO SET** button again.
   The unit automatically checks which of the 1–10/0 buttons do not yet have direct folder assignments and assigns folders to them.
   SETTING appears on the display while this is happening.

   After registration completes, DONE will appear on the display for a few seconds and then the unit will return to ordinary playback mode.

   When the main unit **CANCEL** indicator is blinking, you can press the **CANCEL** button on the main unit or the remote to cancel assignment and return to ordinary playback mode.

NOTE

- ***FOLDER/TRACK SELECT (1–10/0)** buttons that already have assignments will not be overwritten.*
- *Unlike during individual folder assignment, the indicators for **FOLDER/TRACK SELECT (1–10/0)** button that do not yet have direct folder assignments do not blink.*
- *Assignments are made in the same order as folder searching as described in see "Folders and tracks on data CDs, SD cards and USB flash drives" on page 21. However, since already assigned folders are excluded, the same folder will not be assigned to more than one **FOLDER/TRACK SELECT (1–10/0)** button.*
- *Assignments are made to **FOLDER/TRACK SELECT (1–10/0)** buttons in order starting with the lowest number.*

Changing individual direct folder assignments

When assigning direct folders, indicators light on the main unit **FOLDER/TRACK SELECT (1–10/0)** buttons that already have direct folder assignments.

To change direct folder assignments, you must overwrite them.

1. Press the **MEDIA SELECT** button on the main unit or the remote and select the media that contains the folder that you want to assign as a direct folder. (See "Selecting the playback media" on page 20.)
2. Press the main unit **SET [AUTO SET]** button or the remote **SET** button to enable direct folder setting mode.
3. Use the main unit or remote **FOLDER ◀/▶** buttons to select the folder that you want to assign.
4. Press a **FOLDER/TRACK SELECT (1–10/0)** button that already has a direct folder assignment (indicator lit). The indicator for that button will start to blink. At the same time the indicators for all other buttons will become unlit.
   UPDATE appears on the display, showing that the unit is ready to change the assignment.

5. Press the **FOLDER/TRACK SELECT (1–10/0)** button, which now has a blinking indicator, again to change the direct folder assignment.
   When the main unit **CANCEL** indicator is blinking, you can press the **CANCEL** button on the main unit or the remote to cancel assignment and return to step 2 above (direct folder setting mode).

NOTE

- *Changing direct folder assignments never erases folders on media or audio files within folders.*
- *You can use the **FOLDER ◀/▶** buttons on the main unit or the remote control to select folders and assign them to different **FOLDER/TRACK SELECT (1–10/0)** buttons.*

Direct folder playback

When the main unit **TRK SEL** indicator is not lit, lit indicators for the **FOLDER/TRACK SELECT (1–10/0)** buttons show they have direct folder assignments for the current media (SD card or USB flash drive).

Press a **FOLDER/TRACK SELECT (1–10/0)** button that has a lit indicator to start playback of the folder assigned to that button.

During direct folder playback, the indicator for the **FOLDER/TRACK SELECT (1–10/0)** button of the assigned folder that is playing back blinks slowly.

Example of direct folder assignments

Button 1	Button 2	Button 3	Button 4	Button 5
01_FILE_1-1.wav	01_FILE_2-1.mp3	01_FILE_3-1.wma	No direct folder assigned	01_FILE_5-1.wav
02_FILE_1-2.wav	02_FILE_2-2.mp3	02_FILE_3-2.wma		02_FILE_5-2.wav
03_FILE_1-3.wav	03_FILE_2-3.mp3	03_FILE_3-3.wma		03_FILE_5-3.wav
04_FILE_1-4.wav	04_FILE_2-4.mp3	04_FILE_3-4.wma		04_FILE_5-4.wav
05_FILE_1-5.wav	05_FILE_2-5.mp3	05_FILE_3-5.wma		05_FILE_5-5.wav
06_FILE_1-6.wav	06_FILE_2-6.mp3	06_FILE_3-6.wma		06_FILE_5-6.wav
07_FILE_1-7.wav	07_FILE_2-7.mp3	07_FILE_3-7.wma		07_FILE_5-7.wav
08_FILE_1-8.wav	08_FILE_2-8.mp3	08_FILE_3-8.wma		08_FILE_5-8.wav
09_FILE_1-9.wav	09_FILE_2-9.mp3	⋮		09_FILE_5-9.wav
10_FILE_1-10.wav	10_FILE_2-10.mp3	⋮		10_FILE_5-10.wav
11_FILE_1-11.wav	11_FILE_2-11.mp3	19_FILE_3-19.wma		
12_FILE_1-12.wav	12_FILE_2-12.mp3	20_FILE_3-20.wma		

Button 6	Button 7	Button 8	Button 9	Button 10/0
No direct folder assigned	01_FILE_7-1.3gp	No direct folder assigned	No direct folder assigned	01_FILE_10-1.mp3
	02_FILE_7-2.3gp			02_FILE_10-2.mp3
	03_FILE_7-3.3gp			03_FILE_10-3.mp3
	04_FILE_7-4.3gp			04_FILE_10-4.mp3
	05_FILE_7-5.3gp			05_FILE_10-5.mp3
	06_FILE_7-6.3gp			06_FILE_10-6.mp3
	07_FILE_7-7.3gp			07_FILE_10-7.mp3
	08_FILE_7-8.3gp			08_FILE_10-8.mp3
	⋮			09_FILE_10-9.mp3
	⋮			10_FILE_10-10.mp3
	23_FILE_7-23.3gp			11_FILE_10-11.mp3
	24_FILE_7-24.3gp			12_FILE_10-12.mp3

Setting the playback area with direct folders

Direct folders are played back according to the playback area setting as follows. Press the main unit **PLAY MODE/INTRO CHECK [PLAY AREA]** button while pressing and holding the **DISPLAY [SHIFT]** button, or press the remote PLAY AREA button to set the playback area. (See "Setting the playback area" on page 22.)

ALL PLAY

The playback area includes all folders assigned to **FOLDER/TRACK SELECT (1–10/0)** buttons (indicators lit).

For example, after playback of the last track in the folder assigned to button 1 (12_FILE_1-12.wav in the illustration above) ends, playback continues with the first track in the folder assigned to button 2 (01_FILE_2-1.mp3).

FOLDER (FOLDER appears on display)

The playback area is the folder assigned to the **FOLDER/TRACK SELECT (1–10/0)** button (indicator lit) pushed to start playback.

Selecting the playback mode with direct folders

Direct folders play back according to the playback mode as follows. Press the main unit **PLAY MODE/INTRO CHECK [PLAY AREA]** button or the remote **PLAY MODE** button to select the playback mode. (See "Selecting the playback mode" on page 23.)

Continuous playback mode

- The selected direct folder plays back from its first track to its last track.
  For example, if you press button **1**, the tracks in the assigned folder will be played back from first to last.
- If the playback area is set to ALL PLAY, after the last track in a folder plays back, playback of the next direct folder will begin.
  For example, after playback of the last track in the folder assigned to button **1** (12_FILE_1-12.wav in the illustration above) ends, playback continues with the first track in the folder assigned to button **2** (01_FILE_2-1.mp3).
- If the playback area is set to FOLDER and the repeat playback function is OFF, playback stops after the last track plays back.
  For example, after playback of the last track in the folder assigned to button **1** (12_FILE_1-12.wav in the illustration above) ends, playback stops.
- If the playback area is set to ALL PLAY and the repeat playback function is ON, after the last track in the folder assigned to the highest-numbered button plays back, playback will continue from the direct folder assigned to the lowest-numbered button.
  For example, after playback of the last track in the folder assigned to button **10/0** (12_FILE_10-12.mp3 in the illustration above) ends, playback continues from the first track (01_FILE_1-1.wav) in the folder assigned to button **1**.

Single playback mode

- The first track in the selected direct folder plays back, and then playback stops.
- If you skip tracks during playback, it is possible to move to the second and later tracks in the folder. The tracks that can be skipped to, however, depend on the playback area setting.
  For example, when you skip from the last track in the folder assigned to button **1** (12_FILE_1-12.wav in the illustration above), if the playback area is set to ALL PLAY, the first track in the folder assigned to button **2** (01_FILE_2-1.mp3) will be selected. If the playback area is set to FOLDER, the first track in the folder assigned to button **1** (01_FILE_1-1.wav) will be selected.
- If the repeat playback function is ON, the track that is playing will be played back repeatedly.

Random playback mode

- The tracks in the selected direct folder play back in random order.
  For example, if you press button 1, all the tracks in the assigned folder will be played back in random order.
- If the playback area is set to ALL PLAY, after all the tracks in the folder have played back, playback of the next direct folder will begin with all the tracks in it played back in random order.
  For example, after random playback of all the tracks in the folder assigned to button 1 ends, random playback of all the tracks in the folder assigned to button 2 will begin.
- If the playback area is set to FOLDER and the repeat playback function is OFF, playback stops after all the tracks in the folder have been played back.
  For example, after random playback of all the tracks in the folder assigned to button 1 ends, playback stops.
- If the playback area is set to ALL PLAY and the repeat playback function is ON, after all the tracks in the folder assigned to the highest-numbered button have been played back, random playback of the direct folder assigned to the lowest-numbered button begins.
  For example, after random playback of all the tracks in the folder assigned to button 10/0 ends, random playback of all the tracks in the folder assigned to button 1 begins.

Program playback mode

- If program playback mode (PROG indicator appears) is in use, pressing a direct folder button will make the playback mode change automatically to continuous playback mode and begin direct folder playback.
  If a program had been set, it will be cleared.

Using folder search/browse functions during direct folder playback

Using the folder search or browse function during direct folder playback will stop direct folder playback.

ALL PLAY

- After changing the selected folder by searching during direct folder playback, the entire media will begin playing back from the first track.
- After using the browse function during direct folder playback, the file selected using the browse function will begin playing back, and playback of later tracks will continue in order until the end of the media.

FOLDER (FOLDER appears on display)

- After changing the selected folder by searching during direct folder playback, the folder selected using folder search will begin playing back from its first track.
- After using the browse function during direct folder playback, the file selected using the browse function will begin playing back, and playback of later tracks will continue in order until the last track in the folder ends.

Clearing direct folder assignments

You can clear the direct folder assignments of the main unit **FOLDER/TRACK SELECT (1–10/0)** buttons.

Assignments can be cleared either individually or automatically all at once.

NOTE

Clearing direct folder assignments never erases folders on media or audio files within folders.

After clearing direct folder assignments, you can use the **FOLDER ◀/▶** *buttons on the main unit or the remote control to select folders and assign them to different* **FOLDER/TRACK SELECT (1–10/0)** *buttons.*

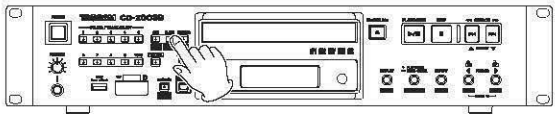
Clearing individual direct folder assignments

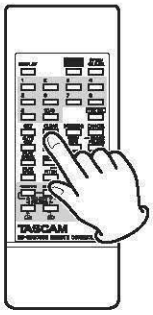
1. Press the **MEDIA SELECT** button on the main unit or the remote and select the media that contains folders with direct folder assignments.
   The SD icon will appear on the display if an SD card is selected and the USB icon will appear if a USB flash drive is selected.

NOTE

You cannot select media that is not loaded.

2. Press the main unit **CLEAR [CLEAR ALL]** button or the remote **CLEAR** button.





The main unit **CLEAR [CLEAR ALL]** button indicator lights and CLEAR appears on the display.

The indicators for the **FOLDER/TRACK SELECT (1–10/0)** buttons with direct folder assignments and the **CANCEL** button blink.

To cancel the operation, when the main unit **CANCEL** indicator is blinking, press the **CANCEL** button on the main unit or the remote. After canceling the operation, the display returns to its previous state.

3. Press the 1–10/0 button with a blinking indicator that has the direct folder assignment that you want to clear.
After the assignment has been cleared, DONE appears on the display for a few seconds and then, it returns to its previous state.

Clearing all direct folder assignments (CLEAR ALL)

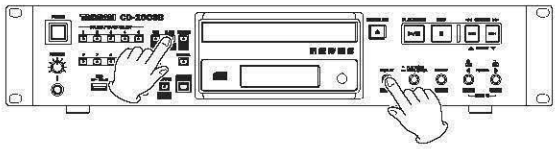
You can clear the direct folder assignments for all the main unit **FOLDER/TRACK SELECT (1–10/0)** buttons at once.

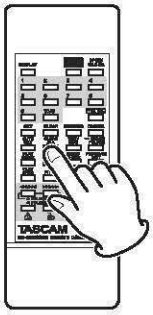
1. Press the **MEDIA SELECT** button on the main unit or the remote and select the media that contains folders with direct folder assignments.
The SD icon will appear on the display if an SD card is selected and the USB icon will appear if a USB flash drive is selected.

NOTE

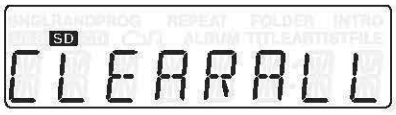
You cannot select media that is not loaded.

2. Press the main unit **CLEAR [CLEAR ALL]** button while pressing and holding the **SHIFT** button, or press the remote **CLEAR ALL** button.





The main unit **CLEAR [CLEAR ALL]** button indicator blinks and CLEARALL appears on the display.



3. Press the main unit **CLEAR [CLEAR ALL]** button or the remote **CLEAR ALL** button again to clear all direct folder assignments for the **FOLDER/TRACK SELECT (1–10/0)** buttons.
4. When clearing completes, DONE appears on the display for a few seconds and then it returns to its previous state.

To cancel the operation, when the main unit **CANCEL** indicator is blinking, press the **CANCEL** button on the main unit or the remote. After canceling the operation, the display returns to its previous state.

Using this unit's dubbing (copying) function you can dub the content of a CD to an SD card or USB flash drive. Moreover, you can change the format used for the dubbed files.

Dubbing overview

When this unit dubs a CD to an SD card or USB flash drive, it plays the CD back continuously regardless of the playback mode setting.

When dubbing a data CD, depending on the playback area setting, the entire CD (ALL PLAY) or the current folder (FOLDER) will be dubbed to the SD card or USB flash drive.

Dubbing always creates new folders and creates the dubbed files in those folders.

Dubbing never deletes existing files.

A dubbed folder can be assigned as a direct folder to the selected main unit **FOLDER/TRACK SELECT (1–10/0)** button or remote number **(1–10/0)** button.

Formats of dubbed files

This unit can create dubbed files in the following formats.

WAV

MP3 (HQ/MQ/LQ)

NOTE

When dubbing, a folder named "/music/albumXXX/" ("XXX" is a 3-digit number, such as "001") is created on the media used for dubbing, and a file is created for each dubbed CD track with a file name in the format "trackXXX.wav" (or "trackXXX.mp3").
When set to ALL PLAY, if you dub a data CD with multiple folders, all the files will be dubbed to single folder.

Operation during dubbing

During dubbing, this unit operates in the following manner.

- The audio of the CD being dubbed is output.
- SD cards and USB flash drives cannot be played back.
- Continuous playback mode is used for CD playback regardless of the playback mode setting.

NOTE

- ***Depending on the SD card or USB flash drive used for dubbing, recording might not be able to keep up with the audio input. If this occurs, the CD playback sound might skip or parts of the audio might be repeated during playback. This will not, however, affect the recording to the SD card or USB flash drive.***
- ***When an audio CD is dubbed, silent gaps will occur between dubbed tracks when they are played back even if the audio on the CD was continuous between tracks.***
- ***When dubbing a data CD, it does not simply copy the files on the CD to the SD card or USB flash drive.***
- ***Regardless of the sampling rates of the source files, the dubbed files will all be converted to a sampling rate of 44.1 kHz.***

Dubbing is not possible in the following cases.

Dubbing source cannot be an SD card or USB flash drive

This unit can only dub from audio and data CDs. It cannot dub the content of an SD card or USB flash drive.

Dubbing destination media is write-protected

PROTECT will appear on the display for a few seconds and the unit will return to its previous state.

Dubbing destination does not have enough open space

FULL will appear on the display for a few seconds and the unit will return to its previous state. Furthermore, if the dubbing destination runs out of space during dubbing, FULL will appear on the screen for a few seconds and dubbing will stop.

Dubbing

1. Load the dubbing source CD.
   If the dubbing source CD is a data CD, press the main unit or remote **MEDIA SELECT** button to set the dubbing source media to CD. (See "Selecting the playback media" on page 20.)
   Set the playback area to ALL PLAY or FOLDER as necessary.
   If set to FOLDER, use the main unit or remote **FOLDER ◀/▶** buttons to select the folder that you want to dub. (See "5 – Browsing" on page 31.)

NOTE

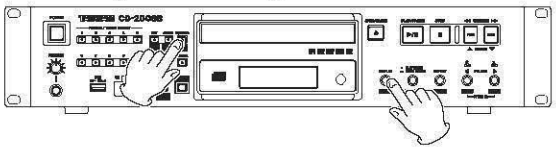
When dubbing an audio CD, setting the playback area is not necessary.

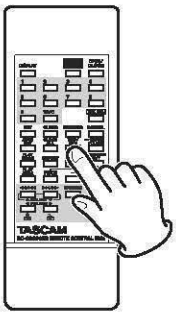
2. Press the **MEDIA SELECT** button on the main unit or the remote to select the dubbing destination media (SD card or USB flash drive).
   -SD- or -USB- will appear on the display.

NOTE

- *If only one type of media—an SD card or a USB flash drive—is loaded, that media will be the dubbing destination regardless of the current media setting made using the* **MEDIA SELECT** *button on the main unit or the remote.*
- *If both an SD card and a USB flash drive are loaded and the media selected using the* **MEDIA SELECT** *button on the main unit or the remote is either SD card or CD, the CD will be dubbed to the SD card. If the media selected is the USB flash drive, the CD will be dubbed to the USB flash drive.*

3. Press the main unit **DUBBING [WAV/MP3]** button while pressing and holding the **DISPLAY [SHIFT]** button or press the remote **WAV/MP3** button to set the file format used when writing to the dubbing destination.





→DUB WAV→DUBMP3HQ→DUBMP3MQ→DUBMP3LQ

Cycle through dubbing destination file formats

Dubbing file format settings

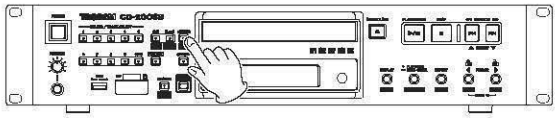
Display	File format
DUB WAV	44.1kHz 16-bit stereo WAV
DUBMP3HQ (default value)	44.1kHz 256kbps stereo MP3
DUBMP3MQ	44.1kHz 128kbps stereo MP3
DUBMP3LQ	44.1kHz 64kbps stereo MP3

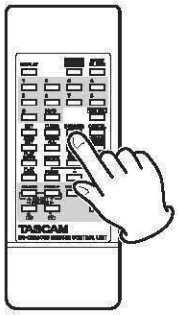
When the current format setting is shown, press the main unit **DUBBING [WAV/MP3]** button while pressing and holding the **DISPLAY [SHIFT]** button or the remote **WAV/MP3** button again to cycle through the setting options.

NOTE

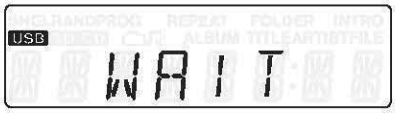
The dubbing destination file format setting is retained even when the power is turned OFF.

4. Press the main unit **DUBBING [WAV/MP3]** button or the remote **DUBBING** button.





WAIT appears on the display as the unit begins checking the dubbing destination media.



5. After the dubbing destination media has been successfully confirmed, SEL FLDR appears on the display and the **FOLDER/TRACK SELECT (1–10/0)** button indicators blink or light.

Blinking indicators show that no direct folder has been assigned to that button. Lit indicators show that a folder has been assigned.

6. Press the main unit **FOLDER/TRACK SELECT (1–10/0)** button or the remote number **(1–10/0)** button for the folder that you want to select as the dubbing destination.
PREPARE appears on the display for a few seconds, then the time counter for the track being dubbed is shown and dubbing begins.

NOTE

- *When selecting the dubbing destination folder, you can choose folders that have blinking or lit indicators.*
- *If you press a* **FOLDER/TRACK SELECT (1–10/0)** *button that does not have a direct folder assigned (blinking indicator), a new folder will be created for dubbing and that folder will automatically be assigned to that button.*
- *If you press a* **FOLDER/TRACK SELECT (1–10/0)** *button that does have a direct folder assigned (lit indicator), dubbing will overwrite the current folder assignment. (See "Dubbing using a 1–10/0 button that already has a direct folder assignment" on page 41.)*

7. While dubbing, you can press the **CANCEL** button (lit on main unit) or **STOP** button on the main unit or the remote to stop the operation. After canceling the operation, CANCELED will appear on the display for a few seconds.

NOTE

- *If you cancel dubbing in the middle of the first track, no files will be created on the SD card or USB flash drive. Furthermore, the folder created at the beginning of dubbing will be erased.*
- *If you cancel dubbing any time after the first track has been dubbed, files that have completed dubbing will be created on the SD card or USB flash drive. Furthermore, the folder created at the beginning of dubbing will be assigned to the* **FOLDER/TRACK SELECT (1–10/0)** *button selected in step 6 above.*

8. When the last track on the CD (or in the selected folder of the data CD) finishes dubbing, FINISHED appears on the display, and then the unit returns to the state it was in before dubbing began.
The folder created at the beginning of dubbing will be assigned to the **FOLDER/TRACK SELECT (1–10/0)** button selected in step 6 above, and that **FOLDER/TRACK SELECT (1–10/0)** button will light.

NOTE

The date and time data of folders and audio files created by dubbing will be different from the current date and time.

Dubbing using a 1–10/0 button that already has a direct folder assignment

When dubbing, you can use the following procedure to overwrite an existing direct folder assignment.

1. After pressing the main unit **DUBBING [WAV/MP3]** button or the remote **DUBBING** button (the main unit **DUBBING [WAV/MP3]** indicator lit), press a lit **FOLDER/TRACK SELECT (1–10/0)** button that already has a direct folder assignment (indicator lit). The indicator for that button will start to blink. At the same time the indicators for all other buttons will become unlit.
UPDATE appears on the display, showing that the unit is ready to change the assignment.

2. Press the **FOLDER/TRACK SELECT (1–10/0)** button, which now has a blinking indicator, again to start dubbing.
When dubbing completes, the direct folder assignment for the selected **FOLDER/TRACK SELECT (1–10/0)** button will be changed.
Before starting dubbing when UPDATE is shown on the display and the main unit **CANCEL** indicator is blinking, you can press the **CANCEL** button on the main unit or the remote to cancel changing the assignment and return to step 5 of "Dubbing" above.

NOTE

Changing direct folder assignments for **FOLDER/TRACK SELECT (1–10/0)** *buttons never erases folders on media or audio files within folders.*

You can use the **FOLDER ◀/▶** *buttons on the main unit or the remote control to select folders and assign them to different* **FOLDER/TRACK SELECT (1–10/0)** *buttons.*

Recording times when dubbing

The following table shows recording times (in hours and minutes) for different file formats and SD/SDHC card and USB flash drive capacities.

File format (dubbing setting)			SD card/USB flash drive			
			1 GB	2 GB	4 GB	8 GB
WAV (STEREO)	16 bit	44.1 kHz	1:34	3:08	6:17	12:35
MP3 (STEREO)	64 kbps (LQ)	44.1 kHz	34:42	69:25	138:35	277:29
	128 kbps (MQ)	44.1 kHz	17:21	34:42	69:17	138:44
	256 kbps (HQ)	44.1 kHz	8:40	17:21	34:38	69:22

- The above recording times are approximate. They may differ according to the SD/SDHC card or USB flash drive being used.
- The above recording times are not continuous recording times. They are total possible recording times for SD/SDHC cards and USB flash drives.

8 – Erase folder function

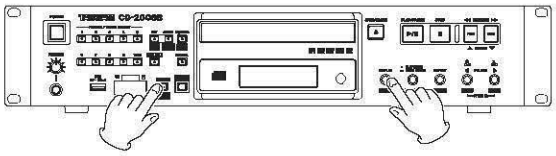
Using this unit, you can erase unwanted folders containing audio files on SD cards and USB flash drives.

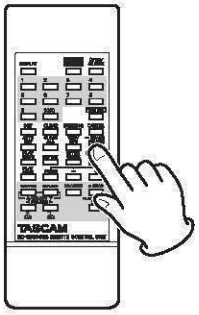
CAUTION

- *You cannot use this unit to erase individual files.*
- *All files (not just music files) in the designated folder will be erased, regardless of their statuses (Read Only, etc.).*

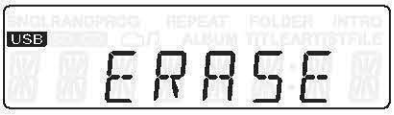
Erasing folders

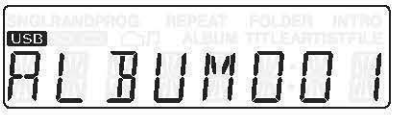
1. Use the **MEDIA SELECT** button to select the media (SD card or USB flash drive) that contains the folder you want to erase.
2. Press the main unit **BROWSE [ERASE FOLDER]** button while pressing and holding the **DISPLAY [SHIFT]** button or press the remote **ERASE FOLDER** button to enter erase folder mode.





When erase folder mode is enabled, the main unit **BROWSE [ERASE FOLDER]** and **CANCEL** indicators blink, and ERASE and the name of the current folder appear alternately on the display.





3. If you want to erase the currently selected folder, skip to the next step.
   If you want to erase a folder of audio files other than the currently selected folder, select the folder that you want to erase using the main unit **FOLDER/TRACK SELECT (1–10/0)** buttons, the remote number **(1–10/0)** buttons and the **FOLDER ◀/▶** buttons on the main unit or the remote control.

NOTE

When the main unit CANCEL indicator is blinking, you can press the CANCEL button on the main unit or the remote to cancel erasing the folder. The display returns to its state before entering erase folder mode.

4. When the folder is selected, press the main unit **BROWSE [ERASE FOLDER]** button or the remote **ERASE FOLDER** button again to erase the folder.
   ERASING appears on the display for a few seconds while the folder is being erased.

   If the selected folder does not have a subfolder, all the files in it (not just music files) will be erased. If this results in the folder that contained the erased folder also becoming empty, that folder will also be erased.
   If the selected folder has a subfolder, all the files (not just music files) in the folder except the files in the subfolder will be erased.

NOTE

- *If the selected media (SD card/USB flash drive) is write-protected, the erase folder function will not function. In this case,* PROTECT *will appear on the display for a few seconds and the unit will return to its previous state.*

- *If a folder that is assigned to a main unit* **FOLDER/TRACK SELECT (1–10/0)** *button is erased, that assignment will automatically be cleared.*

9 – Message Lists

Operation messages

Depending on the operation of the unit, the following messages will appear in the main display area.

Message	Meaning	Response
CANCELED	An operation has been canceled.	
-CLEAR-	All programs have been cleared.	
CLOSE	The disc tray is closing.	
DONE	An operation has completed.	
ERASING	A folder is being erased. Do not remove the media.	
FINISHED	An operation has completed.	
LOADING	Media information is being read.	
NO DISC	There is no disc or the disc cannot be verified.	
NO FILES	The disc has no files that can be played back.	Load a disc or other media that contains playable files.
NO MEDIA	There is no media.	
NO NAME	There is no artist data or no file data that can be displayed.	
NO TITLE	There is no title data that can be displayed.	
OPEN	The disc tray is open.	
SETTING	The AUTO SET operation is in progress. Do not remove the media.	
TOC READ	TOC information is being read.	
WAIT	A file is being processed. Do not remove the media.	
WRITING	Data is being written to the media. Do not remove the media.	

Warning messages

If an operation cannot be completed, one of the following messages will appear for about two seconds and then disappear.

Message	Meaning	Response
FULL	There is not enough space.	Delete unnecessary files or replace the media.*
NO MEDIA	No media is loaded.	Confirm that the media is properly loaded. If this does not work, try replacing the media.
NO PGM	No program has been created.	Add tracks to the program.
PGM FULL	No more tracks can be added to the program.	A program can contain a maximum of 99 tracks. Clear tracks from the program and try again.
PROTECT	The SD card/USB flash drive is write-protected.	Unlock the write-protection.
WRT ERR	A file could not be created.	Format the media using a computer. If this does not work, try replacing the media.

* After deleting a file on an SD card or USB flash drive using a Mac, empty the Trash before ejecting it.

Error messages

If one of the following error messages is shown, please refer to the Response column and try to resolve it. If these measures do not solve the problem, please contact the store where you purchased this unit or TASCAM customer support service.

Message	Meaning	Response
COMM ERR (Blinking)	Cannot communicate with the CD drive.	Contact the nearest retailer or TASCAM representative.
COMM ERR	An error occurred during communication with the CD drive.	Contact the nearest retailer or TASCAM representative.
DEC ERR	The file type is not supported or otherwise could not be played.	Change the disc
DISC ERR	The TOC or file system could not be read, or focus adjustment was not possible.	Clean or change the disc.
DRV ERR	The CD drive hardware is broken.	Contact the nearest retailer or TASCAM representative.
MEDIAERR	The file system cannot be read.	Format the media using a computer. If this does not work, try replacing the media.
PATH ERR	The path might either be too long or contain characters that the unit cannot recognize.	Revise the folder and file names so that the path, including the file extension, contains only ASCII characters and is no more than 255 characters. (The maximum number of folder levels is 16.)
READ ERR	The track cannot be accessed.	Clean or change the disc.

10 – Troubleshooting

If you are having trouble with the operation of this unit, please try the following before seeking repair.
If these measures do not solve the problem, please contact the store where you purchased this unit or TASCAM customer support service.

■ No power

➜ Is the unit's power plug completely inserted into a working power outlet?

■ Remote control doesn't work.

➜ Check to see if the batteries are properly installed in the remote control.
➜ If the batteries are dead, change the batteries.

■ No sound

➜ Check the connection to the monitor system again.
➜ Check the volume and settings of the amplifier.

■ There is unwanted noise.

➜ Are the connecting cables all properly connected and functioning?

■ A CD cannot be played back.

➜ If you are using a data CD with MP3 files, confirm that the file bit-rates are compatible with this unit.
➜ Is the disc scratched or dirty?

■ I cannot play back all the files on a data CD, SD card or USB flash drive.

➜ Make sure the unit is not in folder playback mode.

■ I cannot use program playback.

➜ Make sure the playback area is not set to ALL PLAY.
To use program playback with data CDs, SD cards and USB flash drives, the playback area must be set to FOLDER.

Ratings

Supported media types

CD, CD-R and CD-RW discs

(including 12cm, 8cm and multisession discs and discs with CD text)

The following types of media must be formatted in FAT16 or FAT32 format.

USB	(4GB–64GB)
SD	(2GB)
SDHC	(4GB–32GB)

Playback file formats

CDA:	44.1kHz, 16-bit stereo
MP2:	32/44.1/48kHz, 32–320kbps (data CDs/SD cards/USB flash drives)
MP3:	32/44.1/48kHz, 32–320kbps, VBR (data CDs/SD cards/USB flash drives)
WAV:	8/16/32/11.025/22.05/44.1/12/24/48kHz, 16-bit (data CDs/SD cards/USB flash drives)
AAC*:	32/44.1/48kHz, 32–320kbps, VBR (SD cards/USB flash drives)
WMA**:	32/44.1/48kHz, 32–384kbps, VBR (SD cards/USB flash drives)

*AAC DRM not supported

**WMA files must be compliant with Ver. 9 Standard; DRM is not supported.

Dubbing file formats

WAV:	44.1kHz, 16-bit stereo
MP3:	44.1kHz, 64/128/256kbps

Output ratings

Analog audio output ratings

ANALOG OUTPUT (BALANCED)

Connector: XLR-3-32 (1: GND 2: HOT 3: COLD)
Output impedance: 200 Ω
Reference Output Level: +4 dBu (1.23 Vrms)
Maximum Output Level: +20 dBu (7.75 Vrms)

ANALOG OUTPUT (UNBALANCED)

Connector: RCA pin jack
Output Impedance: 200 Ω
Reference Output Level: –10 dBV (0.32 Vrms)
Maximum Output Level: +6 dBV (2.0 Vrms)

PHONES output

Connector: 6.3 mm (1/4') Stereo Phone Jack
Maximum Output Level: 20 mW + 20 mW
(THD+N: 0.1%, 32Ω)

Digital audio output ratings

DIGITAL OUTPUT (COAXIAL)

Connector: RCA Pin Jack
Compatible Signal Format: IEC-60958-3 (S/PDIF)

DIGITAL OUTPUT (OPTICAL)

Connector: Optical Jack
Compatible Signal Format: IEC-60958-3 (S/PDIF)

Audio performance

Frequency Response

20 Hz - 20 kHz ±1.0 dB (during playback, JEITA)

Signal-to-Noise Ratio (S/N)

More than 90 dB (during playback, JEITA)

Total Harmonic Distortion

Less than 0.01% (during playback, JEITA)

Dynamic Range

More than 90 dB (during playback, JEITA)

Channel Separation

More than 90 dB (during playback, JEITA)

Backup memory

The following settings are backed up even when the unit power is turned off.

- Time and title display settings
- Playback mode
- Program (CD/SD card/USB flash drive)
- Current folder (CD/SD card/USB flash drive)
- Media selection
- Repeat playback function setting (ON/OFF)
- Pitch control ON/OFF (CD)
- Pitch control value (CD)

11 – Specifications

General

Power Requirement
AC 120 V, 60 Hz (U.S.A./Canada)
AC 230 V, 50 Hz (U.K./Europe)
AC 240 V, 50 Hz (Australia)

Power Consumption
11 W

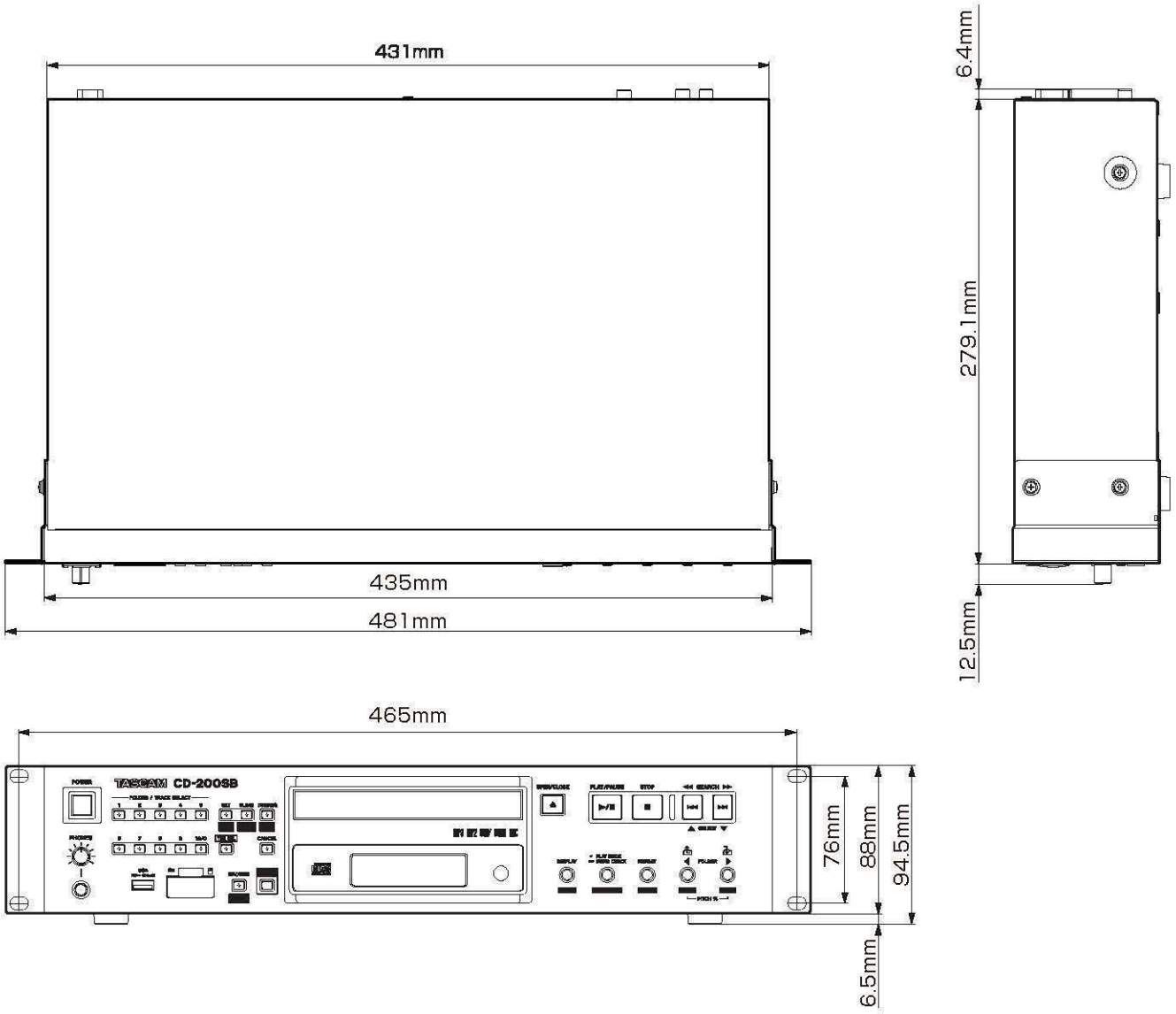
Dimensions (W x H x D)
481 x 94.5 x 298 (mm) / 18.94 x 3.72 x 11.73 (in)

Weight
4.7 kg (10.36 lb)

Operating Temperature
5 to 35°C

Inclination of installation
5° or less

Dimensions



- Illustrations and other depictions may differ in part from the actual product.
- Specifications and external appearance may be changed without notification to improve the product.

Notes

Notes

Notes

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CD-200SB

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0918.MA-2668A

Printed in China

Product Specifications

Beta® 58A Supercardioid Dynamic Vocal Microphone

Overview

The Shure Beta 58A dynamic vocal microphone is precision-engineered for professional live sound reinforcement and studio recording applications. A tailored frequency response accentuates clarity of vocals and a tight supercardioid pattern insures high gain-before-feedback, maximum isolation from other sound sources and minimum off-axis tone coloration.

Beta 58A

Features

- Premier live performance microphone with Shure quality, ruggedness, and reliability
- Uniform supercardioid pick-up pattern for maximum gain before feedback and superior rejection of off-axis sound
- Tailored frequency response specifically shaped for vocals, with brightened midrange and bass roll off to control proximity effect
- Neodymium magnet for greater sensitivity and higher output
- Advanced pneumatic shock mount system that minimizes transmission of mechanical noise and vibration
- Dent-resistant steel mesh grille and enamel coated die-cast metal construction resist wear and abuse
- Effective built-in pop filter reduces undesirable wind and breath noise

Available Models

Beta 58A	Supercardioid Dynamic Vocal Microphone with High-output Neodymium Element

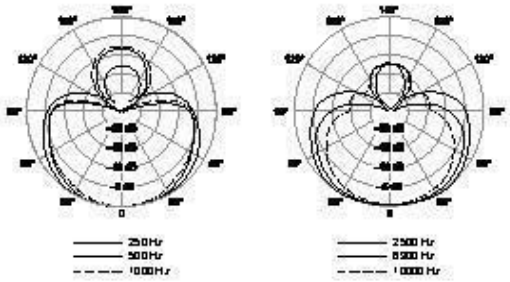
Specifications

Cartridge Type	Dynamic (moving coil)
Frequency Response	50 to 16,000 Hz
Polar Pattern	Supercardioid
Output Impedance	150 Ω
Sensitivity *(at 1 kHz, open circuit voltage)*	−51 dBV/Pa (2.8 mV) *1 Pascal = 94 dB SPL*
Weight	Net: 0.278 kg (0.62 lbs)
Connector	Three pin professional audio (XLR), male

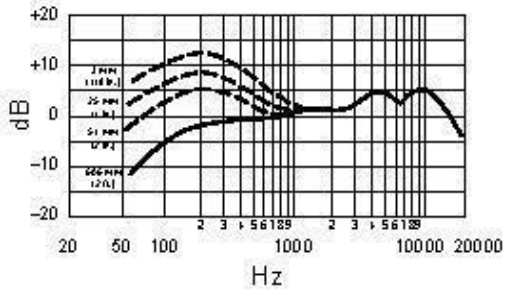
Accessories and Replacement Parts

RK265G	Replacement grille	R176	Replacement cartridge
A58WS	Gray microphone windscreen	A25D	Microphone clip

Polar Pattern



Frequency Response



SHURE

LEGENDARY PERFORMANCE™

www.shure.com

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BLX® WIRELESS SYSTEMS

LEGENDARY SOUND. RIGHT OUT OF THE BOX.

BLX® Wireless Systems

WIRELESS FREEDOM, MADE SIMPLE.

Making the jump to wireless should be liberating, not challenging. Shure BLX Wireless Systems combine professional quality sound with simple setup and an intuitive interface for performance you can trust right out of the box. Precision built and available in a variety of handheld, lavalier, instrument and headset configurations, it's the most accessible way to own the stage.

SYSTEM COMPONENTS

BLX4, BLX4R and BLX88 Diversity Receivers

- Up to 12 compatible systems per frequency band (region dependent)
- Microprocessor-controlled internal antenna diversity
- One-touch QuickScan frequency selection quickly locates the best frequency
- 1/4" and XLR audio outputs
- Two color audio status indicator LED

BLX4 Wireless Receiver

Additional BLX4R features:

- Adjustable output level
- Removable antennas for quick antenna distribution
- LCD display with detailed RF and audio metering
- Rugged metal construction, rack mount hardware included

BLX4R Rack Mount Wireless Receiver

BLX88 Dual Wireless Receiver

Wireless Transmitters

- Power and battery status LED
- Adjustable gain control
- Quick & easy frequency matching
- 2 AA batteries (included) provide up to 14 hours of continuous use
- 300 feet (91 m) operating range (line of sight)

BLX2 Handheld Transmitter

BLX1 Bodypack Transmitter

BLX2 HANDHELD SYSTEM OPTIONS

VOCAL

For lead and backup vocals.

PG58

CARDIOID | DYNAMIC

Professional-quality microphone capsule for lead and backup vocal performance applications

WITH **BLX4** OR **BLX88**

SM58®

CARDIOID | DYNAMIC

Industry-standard microphone capsule tailored to deliver warm, clear vocal reproduction

WITH **BLX4** OR **BLX4R**

BETA 58A®

SUPERCARDIOID DYNAMIC

Precision-engineered microphone capsule optimized for lead vocal applications

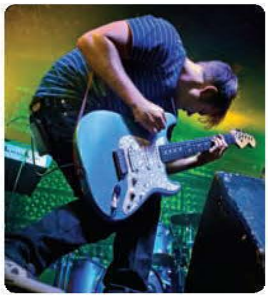
WITH **BLX4** OR **BLX4R**

Optional Accessory:
5 Color ID Caps for handheld transmitter

BLX1 BODYPACK SYSTEM OPTIONS

GUITAR

For guitar or bass.



WA302

GUITAR CABLE

1/4"-to-TA4F instrument cable to connect transmitter to a guitar or bass

WITH **BLX4** OR **BLX4R**

INSTRUMENT

For brass, wind, and percussion instruments.

BETA 98H/C

CARDIOID | CONDENSER

Precision-crafted, flexible gooseneck instrument microphone for brass, woodwind, and percussion applications

WITH **BLX4** OR **BLX4R**

HEADSET

For vocalists, presenters, aerobics instructors and drummers.

PGA31

CARDIOID | CONDENSER

Comfortable, durable head-worn microphone for active performance applications

WITH **BLX4, BLX4R** OR **BLX88**

SM31FH

CARDIOID | CONDENSER

Rugged, comfortable head-worn microphone with increased moisture-resistance for active speech and fitness applications

WITH **BLX4, BLX4R** OR **BLX88**

SM35

CARDIOID | CONDENSER

Rugged, comfortable head-worn microphone for roadworthy, high-quality live vocal performance applications

WITH **BLX4, BLX4R** OR **BLX88**

PRESENTER

For presenters, instructors, teachers and clergy.

CVL

CARDIOID | CONDENSER

Reliable wearable microphone for spoken word applications

WITH **BLX4, BLX4R** OR **BLX88**

WL93

OMNIDIRECTIONAL CONDENSER

Miniature wearable microphone for spoken word applications

WITH **BLX4R**

WL185

CARDIOID | CONDENSER

Premium wearable microphone optimized for spoken word applications

WITH **BLX4R**

MX153

OMNIDIRECTIONAL CONDENSER

Premium sub-miniature earset microphone for discrete, exceptional clarity in spoken word applications

WITH **BLX4R**

BLX® Wireless Systems

BLX2 HANDHELD SYSTEM OPTIONS

Model	Includes
BETA 58A® VOCAL 50Hz – 16kHz	• BETA 58A® Handheld Microphone with BLX2 Transmitter • BLX4 or BLX4R Wireless Receiver • Durable Padded Zipper Case • Break-resistant Microphone Clip • 2 AA Batteries
PG58 VOCAL 60Hz – 15kHz	• PG58 Handheld Microphone with BLX2 Transmitter • BLX4 or BLX88 Wireless Receiver • Break-resistant Microphone Clip • 2 AA Batteries

BLX1 BODYPACK SYSTEM OPTIONS

Model	Includes
WA302 GUITAR	• WA302 Guitar Cable • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4 or BLX4R Wireless Receiver • Durable Padded Zipper Case
PGA31 HEADSET 40Hz – 20kHz	• PGA31 Headset Microphone • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4, BLX4R OR BLX88 Wireless Receiver • Windscreen
WL93 PRESENTER 50Hz – 20kHz	• WL93 Lavalier Microphone • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4R Wireless Receiver • Durable Padded Zipper Case • Tie Clip and Windscreen
MX153 PRESENTER 20Hz – 20kHz	• MX153 Earset Microphone • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4R Wireless Receiver • Durable Padded Zipper Case • Collar Clip, Windscreen, and Protective Pouch

Model	Includes
SM58® VOCAL 50Hz – 15kHz	• SM58® Handheld Microphone with BLX2 Transmitter • BLX4 or BLX4R Wireless Receiver • Durable Padded Zipper Case • Break-resistant Microphone Clip • 2 AA Batteries

BLX1 BODYPACK SYSTEM OPTIONS

Model	Includes
BETA 98H/C INSTRUMENT 20Hz – 20kHz	• BETA 98H/C Instrument Microphone • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4 or BLX4R Wireless Receiver • Durable Padded Zipper Case
CVL PRESENTER 60Hz – 12kHz	• CVL Lavalier Microphone • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4, BLX4R OR BLX88 Wireless Receiver • Tie Clip and Windscreen
WL185 PRESENTER 50Hz – 20kHz	• WL185 Lavalier Microphone • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4R Wireless Receiver • Durable Padded Zipper Case • Tie Clip and Windscreen
SM31FH HEADSET 40Hz – 20kHz	• SM31FH Headset Microphone • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4, BLX4R OR BLX88 Wireless Receiver • Windscreen
SM35 HEADSET 40Hz – 20kHz	• SM35 Headset Microphone • BLX1 Bodypack Transmitter with 2 AA Batteries (included) • BLX4, BLX4R OR BLX88 Wireless Receiver • Windscreen

Operating Principle
Dynamic, Condenser

Polar Pattern
Cardioid, SuperCardioid, OmniDirectional

Frequency Response
Flat, Tailored

TECHNICAL SPECIFICATIONS

Operating Range:
300 ft (91 m) line of sight
(actual range depends on RF signal absorption, reflection and interference)

Available Frequencies:
Between 524–865 MHz
(available frequencies depend on applicable regulations in country where system used)

Audio Range:
50–15,000 Hz
(dependent on microphone type)

Transmitter RF Output Power:
10 mW, typical *(varies by region)*

Audio Output Connector:
XLR and 1/4" (6.3 mm) unbalanced

Maximum Output Level:
-27 dBV (XLR, mic level), -13 dBV (1/4")

Battery Life:
Up to 14 hours

Dynamic Range:
100 dB A-weighted

System Distortion:
0.5% THD typical (ref. +/- 38 kHz deviation, 1 kHz tone)

Operating Temperature Range:
-18°C (0°F) – +50°C (122°F)

Power Requirements:
BLX1, BLX2: 2 AA alkaline or rechargeable batteries

BLX4: 12–18 V DC at 150 mA, supplied by external power supply

BLX88: 12–18 V DC at 320 mA, supplied by external power supply

BLX4R: 12–18 V DC at 260 mA, supplied by external power supply

Note: Performance may vary depending on country regulations and operating environment.

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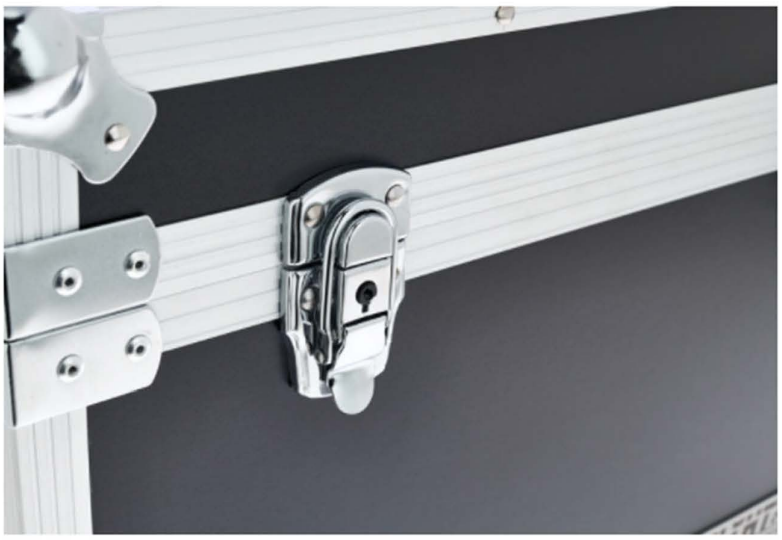
AL21324B 2.5K 03/14

Flyht Pro Case for 9.5" Wireless System

★★★★★ 1 Rating

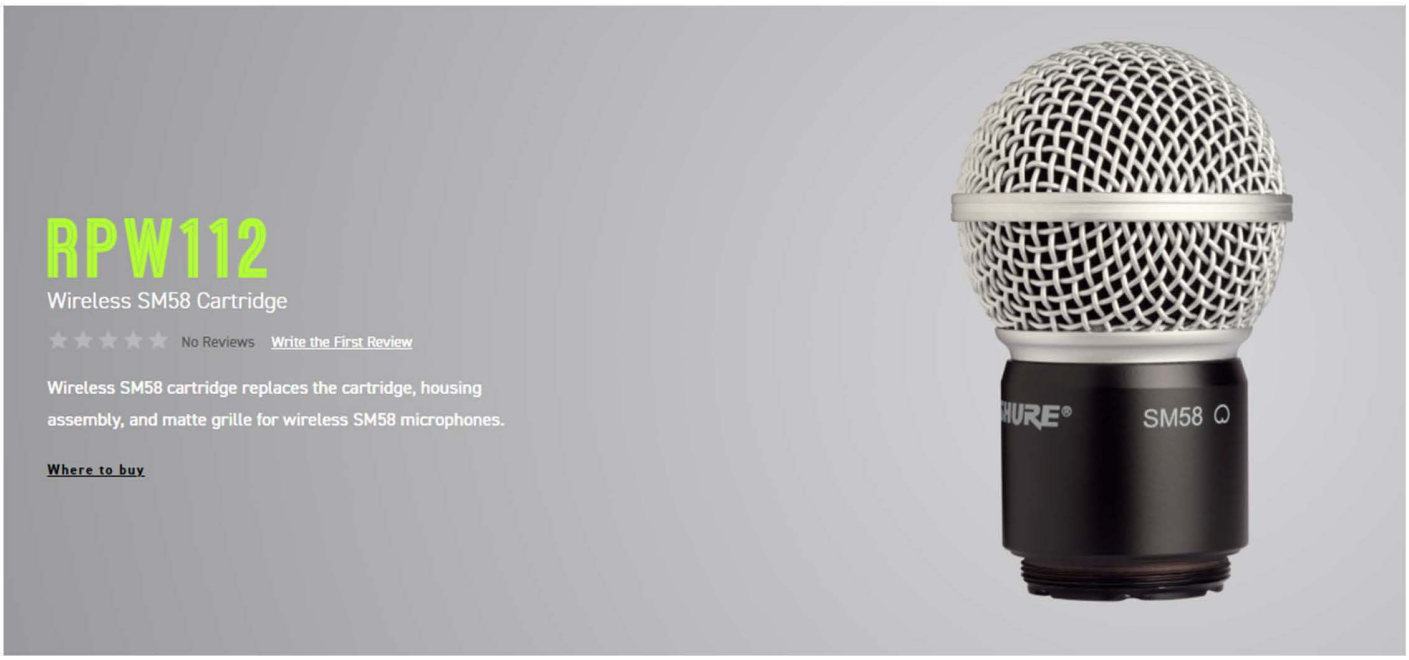


Transport Case

- Suitable for two 9.5" wireless systems
- Sections for 2 handheld transmitters and 2 pocket transmitters
- Space for lavalier microphones, cables, etc.
- Made from 3.6 mm plywood
- 22 x 22 mm Aluminium edges
- 1 Suitcase handle
- 2 Drawbolt latches
- 2 Locking hinges
- Detachable lid
- 8 Small ball corners
- External dimensions (W x H x D): 460 x 150 x 350 mm
- Weight: 3.6 kg
- Colour: Black, coated

Further Information

Interior	2 Wireless Systems
Wheels	No
IP Class	No
Color	Black



Dynamic Capsule with Cardioid Directivity

- Optimised frequency response with brightened mids and bass cuts
- Integrated effective wind and pop filter
- Shock absorber system
- Robust construction, sturdy steel mesh grille
- Directivity: Cardioid
- Frequency range: 50 - 15,000 Hz
- Output impedance: 300 Ohm
- Sensitivity: -54.5 dBV/Pa (1.85 mV)

Šaltinis: www.shure.eu

GLXD4

Wireless Receivers

The Shure GLXD4 Single Channel Wireless Receiver online user guide.
Version: 6.1 (2021-E)

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