



SIB-01 Installation Manual

MRS-1044 ver 1.2 Supplemental Manual

Thank you for selecting the ZOOM SIB-01 (hereafter called the "SIB-01"). The SIB-01 is a SCSI interface board designed for installation in the ZOOM MultiTrak Recording Studio MRS-1044 (hereafter called "MRS-1044"). To ensure correct use of this product, please read and follow all instructions contained in this manual.

Contents

Safety Precautions	2
Installing the SIB-01	3
Updating the MRS-1044 to Version 1.2.....	5
MRS-1044 Version 1.2 Features	7
Connection of External SCSI Devices	8
Compatible drives	8
Connection of SCSI Devices	8
Creating an Audio CD.....	10
V-takes that can be written on an audio CD	10
About CD-R/CD-RW discs	11
Recording a V-take on a CD-R/CD-RW Disc	12
Playing an Audio CD	14
Finalizing a CD-R/CD-RW Disc	17
Erasing a CD-RW Disc	18
Storing a Project on External Media (Project Backup).....	20
Reading a Stored Project from External Media (Project Restore).....	26
Deleting Backup Data.....	32
Formatting an External Storage Device	34
Changing the Length of a V-take (Trimming)	35
Troubleshooting.....	38

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Safety Precautions

In this manual, important information that is intended to prevent the danger of injury to persons and damage to equipment is marked with special symbols. The meaning of these symbols is explained below.



Warning

Disregarding instructions printed here incurs the risk of death or severe injury to persons.



Caution

Disregarding instructions printed here incurs the risk of injury to persons and/or damage to peripheral equipment.

Please observe the following safety tips and precautions to ensure hazard-free use of the SIB-01.

■ Handling



Warning

- Before installing the SIB-01 in the MRS-1044, be sure to turn the MRS-1044 off and disconnect the AC adapter from the outlet.



Caution

- Before handling the SIB-01, touch a grounded metal surface or take other measures to discharge any buildup of static electricity. Otherwise static discharge can damage the SIB-01 or MRS-1044.



Caution

- The SIB-01 is a precision product. Do not subject it to strong force when installing it in the MRS-1044. To prevent the possibility of damage, take care not to drop it and protect it

from shocks.



Caution

- Only install the SIB-01 according to the instructions in this manual. Any damage or malfunction arising from improper installation is not covered by the warranty.



Caution

- Never attempt to modify this product in any way. Any damage or malfunction arising from modification attempts is not covered by the warranty.

■ Malfunction

If there is any malfunction or other sign of a problem, immediately turn off the MRS-1044, disconnect the AC adapter from the outlet, and remove the SIB-01.

Note the model number, serial number, symptoms, as well as name of the dealer where the product was purchased, and contact Zoom Corporation, providing your name, address, and telephone number.

Please keep this manual in a convenient place for future reference.

Installing the SIB-01

The SIB-01 is designed for installation in the side panel slot of the MRS-1044.

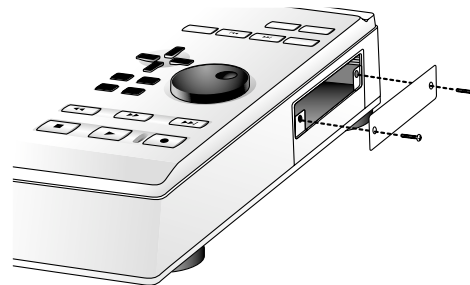


Warning

Before installing the SIB-01 in the MRS-1044, be sure to turn the MRS-1044 off and disconnect the AC adapter from the outlet.

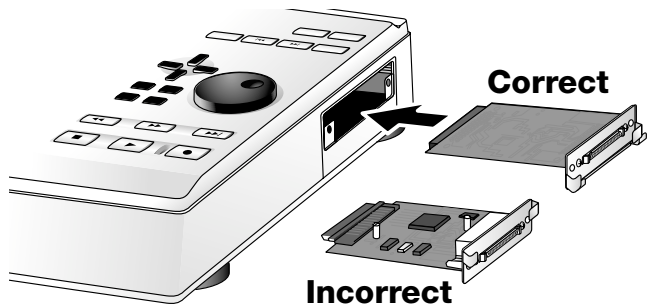
1. Remove the two screws that fasten the cover of the side panel slot, and remove the cover.

These screws will be used to fasten the SIB-01.

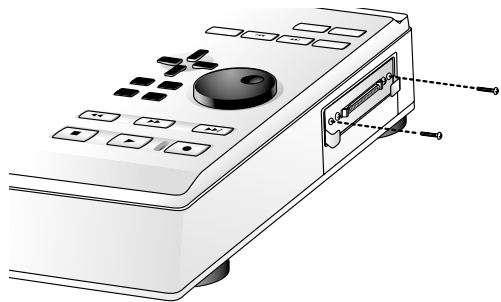


2. With the populated side of the SIB-01 board (the side with IC chips and other components) facing downwards, push the SIB-01 fully into the slot.

Align the board with the rails of the slot, and make sure that it clicks into place. If the board does not go all the way in, check whether the SIB-01 has not been inserted upside down, and whether it is properly aligned with the rails.



3. Use the screws removed in step 1 to fasten the SIB-01.



NOTE The SIB-01 works only in the MRS-1044 if the system is Version 1.2 and later. If your MRS-1044 is Version 1.0, you must update your system as described on the next page.

Updating the MRS-1044 to Version 1.2

In order to use the SIB-01, the MRS-1044 system must be updated to Version 1.2. Perform this update using the "Version Update" CD-ROM supplied with the SIB-01.

- NOTE**
- To perform the update, a SCSI compatible CD-R/CD-RW drive or CD-ROM drive is required. If you do not have a suitable drive, please consult your dealer or contact ZOOM Corporation.
 - The SIB-01 comes with two CD-ROMs: a "Version Update Disc" (green label) for updating the system and a "Recovery Disc" (red label) for restoring the hard disk of the MRS-1044 to the factory default condition. Be careful not to mix up these discs.

**Version Update Disc
Green label**



Only updates the system.
Projects created by user are retained.

**Recovery Disc
Red label**



Restores hard disk to factory default condition. System will be Version 1.2.
! Caution ! All projects created by user will be deleted.

If you use the "Recovery Disc" and perform the steps described below, all user projects will be deleted.

1. Connect the SCSI connector on the MRS-1044 (with SIB-01 installed) to the SCSI connector of the CD-R/CD-RW (CD-ROM) drive, using a SCSI cable.

Before performing this step, make sure that power to both components is turned off. For details regarding the SCSI connection, refer to page 8.

2. Turn power to the CD-R/CD-RW (CD-ROM) drive on, insert the "Version Update Disc" (green label), and then turn power to the MRS-1044 on.

This section describes additional features of the MRS-1044 which are available in Version 1.2.

• Audio CD creation

Using a CD-R/CD-RW drive connected to the SCSI connector of the MRS-1044 (with SIB-01 installed), you can create an audio CD. Audio data for up to 99 songs can be stored on a single CD-R/CD-RW disc, provided there is enough space on the disc.

An audio CD created in this way can also be played on a regular CD player after the finalizing operation has been performed.

• Project backup/restore

You can copy any project of the MRS-1044 to a CD-R/CD-RW drive, ZIP drive, MO drive, hard disk or other device connected to the SCSI connector of the MRS-1044 (with SIB-01 installed). This is convenient for creating backups of important projects. A backed-up project can be restored to the MRS-1044 at any time. When using a drive with removable media such as MO or ZIP, or a CD-R/CD-RW drive, large projects can be split up to span multiple media for backup and restore.

• V-take trimming

A new option is added to the track edit menu, allowing fine adjustment of V-take start position and end position. For example, when creating an audio CD, silent passages at the start or end of the V-take can be cut.

When power is turned on in this sequence, the MRS-1044 reads a program from the CD-ROM and starts up in a special mode called "CD-ROM mode". When the MRS-1044 starts in this mode, the indication "Ver Up to 1.20?" appears on the display.



NOTE If power is turned on in the reverse sequence, the MRS-1044 will start up in normal mode, and system update is not performed.

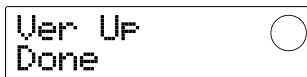
3. Press the [ENTER] key of the MRS-1044.

The display now shows the indication "Ver Up Sure?".



4. To perform the update, press the [ENTER] key once more.

The system update process begins. When the process is completed, the indication "Ver Up Done" appears on the display.



5. When the update process is complete, remove the "Version Update Disk" from the CD-R/CD-RW (CD-ROM) drive, and then turn power off in the sequence MRS-1044 → CD-R/CD-RW (CD-ROM) drive.

When you next turn the MRS-1044 on again, it will start up in normal mode.

NOTE The same procedure can also be performed if you insert the "Recovery Disc" instead of the "Version Update Disk" into the CD-R/CD-RW (CD-ROM) drive. Note that this will delete all projects created by the user and restore the MRS-1044 to the factory default condition. Be careful not to mix up these discs.

Connection of External SCSI Devices

This section describes the types of SCSI devices that can be connected to the MRS-1044 (with SIB-01 installed), and gives information about the connection procedure.

Compatible drives

Specifications for SCSI devices that can be connected to the MRS-1044 are as follows.

● Type

CD-R/CD-RW drive, MO (Magneto-optical disc) drive (128 MB, 230 MB, 540 MB), ZIP drive (100 MB, 250 MB), hard disk drive

● Interface

SCSI-2

● Confirmed models

CD-R/CD-RW drive: PLEXTOR PX-W1210TSE

For a list of other models, please visit the ZOOM Corporation web site (<http://www.zoom.co.jp>).

● Available functions

	Create audio CD	Backup/restore	Backup/restore over multiple media volumes
CD-R/CD-RW drive	Yes	Yes	Yes
MO drive	No	Yes	Yes
ZIP drive	No	Yes	Yes
Hard disk	No	Yes	No

NOTE

- "Confirmed" refers to the fact that normal operation was confirmed with a production unit purchased by ZOOM Corporation. An assurance that all functions will operate is not given.
- ZOOM Corporation does not accept any responsibility whatsoever for any kind of damage arising from the use of the above SCSI devices, whether direct or indirect or from any third parties.

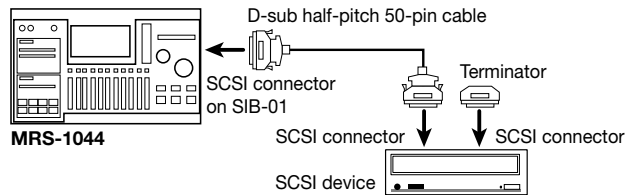
Connection of SCSI Devices

To connect the MRS-1044 (with SIB-01 installed) to a SCSI device, proceed as follows.

1. Make sure that power to the MRS-1044 and the external SCSI device is turned off. Then connect the SCSI connector on the SIB-01 to the SCSI connector of the CD-R/CD-RW (CD-ROM)

drive, using a SCSI cable.

The SCSI cable should be a high-impedance type and should be as short as possible. The use of an inferior cable can lead to malfunction and damage.



2. Mount the terminator on the external SCSI device.

The "terminator" is a special resistor that must be present on the last device in a SCSI chain. Some devices have a terminator built in. In such a case, set the switch for the terminator to ON.

3. Set the SCSI ID of the external device to any number from 0 - 6.

The "SCSI ID" is a number from 0 to 7 that serves to identify a device in a SCSI chain. Because the SCSI ID of the MRS-1044 (SIB-01) is fixed to "7", the setting range for an external SCSI device connected to the MRS-1044 is 0 - 6.

4. Turn power on in the sequence external SCSI device → MRS-1044.

5. When turning power off, proceed in the sequence MRS-1044 → external SCSI device.

NOTE

- While a SCSI device is connected, make sure that its power is turned on when using the MRS-1044. Otherwise, operation of the MRS-1044 may become instable.
- It is in principle possible to connect up to two SCSI devices (CD-R/CD-RW drive x 1 and other SCSI device x 1) to the MRS-1044 (SIB-01). In such a case, make sure that the SCSI ID is not duplicated. However, to assure stable operation, it is highly recommended to connect only one SCSI device.

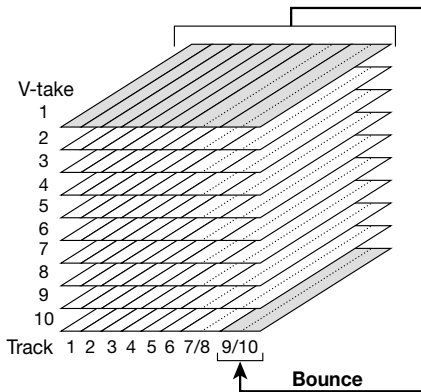
Creating an Audio CD

This section describes how you can write V-takes recorded on the MRS-1044 onto a disc in a CD-R/CD-RW drive connected to the MRS-1044, to create an audio CD.

V-takes that can be written on an audio CD

Only the V-takes 10 of tracks 9/10 can be used for writing to an audio CD. Therefore it is necessary to first make sure that these V-takes contain the desired material. This can be achieved in one the following ways.

- Perform playback on an external DAT or MD recorder which contains the project mixdown, and record it on V-takes 10 of tracks 9/10
- Bounce the entire project onto the V-takes corresponding to V-takes 10 of tracks 9/10



Only one project can be written at a time. However, as long as the CD-R/CD-RW disc has not been finalized, it is possible to call up another project and add audio data.

(Provided there is room on the media, up to 99 songs can be recorded.)



- For information on how to use the bounce function, refer to the instruction manual of the MRS-1044 (p. 37).
- "Finalizing" an audio CD refers to the procedure of making it playable on an ordinary CD player. After it has been finalized, no more data can be added to a CD-R/CD-RW disc.



- The waveform data of V-takes 10 of tracks 9/10 are recorded as is on the audio CD. Note that fader, EQ, effects, and panning have no effect on the recorded data.
- It is not possible to specify just a portion of a V-take for recording. If necessary, use the trimming function (p. 35) to cut unneeded sections before and after the desired portion.

About CD-R/CD-RW discs

When a CD-R/CD-RW drive is connected to the MRS-1044 for creating an audio CD, you can select either CD-R or CD-RW discs as media. The features of the two disc types are described below.

• CD-R

This media type allows only one-time recording or adding of data. Once data have been written, they cannot be changed or erased. CD-R discs are available in 650 MB and 700 MB capacities.

To newly write a V-take of the MRS-1044 to disc, a blank CD-R is required. As long as the disc has not been finalized, it is possible to add further audio data up to the maximum capacity of the disc.

• CD-RW

This media type allows recording, adding, and bulk-erasing of data. CD-RW discs are also available in 650 MB and 700 MB capacities.

To newly write a V-take of the MRS-1044 to disc, a blank or completely erased CD-RW is required. (For information on how to erase a CD-RW, refer to page 18.) As long as the disc has not been finalized, it is possible to add audio data up to the maximum capacity of the disc.

Recording a V-take on a CD-R/CD-RW Disc

V-takes 10 of tracks 9/10 in the currently selected project can be written to a CD-R/CD-RW disc, to create an audio CD.

1. **Verify that the CD-R/CD-RW drive is properly connected to the MRS-1044 and that a suitable disc is inserted.**

To newly write audio data, use a blank CD-R/CD-RW or a completely erased CD-RW.

To add audio data, use a CD-R/CD-RW which has not been finalized.

2. **Select the project on the MRS-1044 that is to be used as write source.**

Verify that V-takes 10 of tracks 9/10 contain the stereo data to be written as audio data to the disc. If necessary, use the trimming function (p. 35) to cut unneeded sections before and after the desired portion of the V-take.

3. **In the main screen, press the [PROJECT/UTILITY] key.**

The display will indicate "PROJECT".

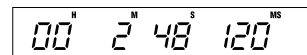
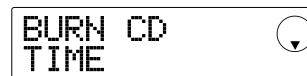
4. **Use the cursor [◀]/[▶] keys to make the display indicate "UTILITY CD-R/RW", and then press the [ENTER] key.**



If the above menu does not appear, the MRS-1044 has not properly recognized the CD-R/CD-RW drive. Check the power on/off condition of the drive and the SCSI connection.

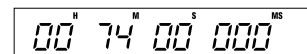
5. **Use the cursor [◀]/[▶] keys to make the display indicate "CD-R/RW BURN CD", and then press the [ENTER] key.**

The duration of the source V-takes is shown at the bottom of the display in hours (H), minutes (M), seconds (S), and milliseconds (MS).



6. **To check the remaining write capacity of the disc, press the cursor [▼] key.**

The indication at the bottom of the display changes to show the remaining capacity of the disc. Pressing the cursor [▲] key returns to the previous display.



7. **To audition the source V-takes, press the PLAY [▶] key. To stop playback, press the STOP [■] key.**

8. **Press the [ENTER] key twice.**

The display indication changes as follows.

Number of track on disc to be written



9. **To carry out the write process, press the [ENTER] key.**

Writing to the CD-R/CD-RW disc begins. During the write process, the indication "wait..." is shown on the display. On the lower part of the display, you can check the progress of the write operation.

When the write process is finished, the display indication changes to "COMPLETE".



- If you press the [EXIT] key instead of the [ENTER] key, the display returns to the condition of the previous step.
- The fastest writing speed supported by the connected CD-R/CD-RW drive will automatically be selected.

10. When writing is complete, press the [EXIT] key.

The system returns to the condition of step 5. To add more audio data, select the project with the desired source data and then repeat the above steps.



- When a new track is added, a pause of 2 seconds is created automatically.
- As long as the CD-R/CD-RW disc has not been finalized, the disc cannot be played on an ordinary CD player. (For information on how to audition a non-finalized CD-R/CD-RW disc, refer to the next section.)

11. To terminate the write process and return to the main screen, press the [EXIT] key several times.

Playing an Audio CD

To play an audio CD inserted in the CD-R/CD-RW drive, proceed as follows. This method can also be used to audition a CD-R/CD-RW disc to which audio data were written.



A non-finalized CD-R/CD-RW disc cannot be played by any other method.

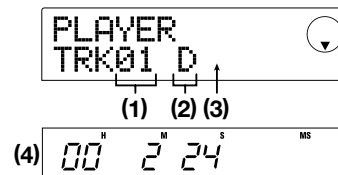
1. Verify that the CD-R/CD-RW drive is properly connected to the MRS-1044 and that a suitable disc is inserted.
2. In the main screen, press the [PROJECT/UTILITY] key.
3. Use the cursor [◀]/[▶] keys to make the display indicate "UTILITY CD-R/RW", and then press the [ENTER] key.



If the above menu does not appear, the MRS-1044 has not properly recognized the CD-R/CD-RW drive. Check the power on/off condition of the drive and the SCSI connection.

4. Use the cursor [◀]/[▶] keys to make the display indicate "CD-R/RW PLAYER", and then press the [ENTER] key.

The display indicates the following information.



(1) Track number

Indicates the number of the track on the audio CD or CD-R/CD-RW disc.

(2) Playback method

Indicates the currently selected audio CD playback method. "D" stands for digital playback and "A" for analog playback.

(3) Finalize status

When a "*" symbol is shown here, a non-finalized CD-R/CD-RW disc is inserted.

(4) Current location

The location in the current track is shown here in hours (H), minutes (M), and seconds (S).

5. Use the FF [▶▶] key and REW [◀◀] key to select the track to be played.

While the above indication is shown, the FF [▶▶] and REW [◀◀] keys can be used to select the track on the CD. The FF [▶▶] key selects the next track and the REW [◀◀] key selects the previous track.

6. Use the cursor [▲]/[▼] keys to select the playback method.

Each push of the cursor [▲]/[▼] keys toggles between the following two methods.

• D (Digital playback)

The digital audio signal of the CD is read into the MRS-1044 and

becomes available at the rear panel [OUTPUT] jacks (DIGITAL, PHONES, MASTER L/R). (Default setting)

● **A (Analog playback)**

The audio signal of the CD is reproduced via the headphone and line outputs of the CD-R/CD-RW drive.

NOTE During audio CD playback, the fader, EQ, reverb, chorus, and panning settings of the MRS-1044 have no effect. However, when "D" is selected, the MASTER fader can be used to adjust the CD volume.

7. To control CD playback/stop, use the transport section keys of the MRS-1044.

While the above indication is shown, the transport section keys of the MRS-1044 operate as follows.

● **PLAY [▶] key**

Playback of the selected track starts. Pressing the key during analog playback sets the system to pause mode.

● **STOP [■] key**

Playback stops, and the system returns to the beginning of the current track.

● **FF [▶▶] key**

Playback stops, and the system jumps to the beginning of the next track.

● **REW [◀◀] key**

Playback stops, and the system jumps to the beginning of the previous track.

NOTE During audio CD playback, the playback method (digital/analog) cannot be switched. If one of the cursor [▼]/[▲] keys is pressed, only the indication "STOP PLAYER" is shown and the key press is ignored.

8. To return to the main screen, press the [EXIT] key several times.

Finalizing a CD-R/CD-RW Disc

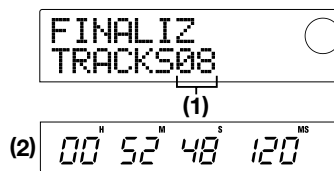
"Finalizing" a CD-R/CD-RW to which audio data were written refers to the procedure of making it playable on an ordinary CD player.

NOTE After a CD-R/CD-RW disc has been finalized, no more tracks can be added to it. Perform the following operation with care.

1. Verify that the CD-R/CD-RW drive is properly connected to the MRS-1044 and that a suitable disc is inserted.
2. In the main screen, press the [PROJECT/UTILITY] key.
3. Use the cursor [◀]/[▶] keys to make the display indicate "UTILITY CD-R/RW", and then press the [ENTER] key.

NOTE If the above menu does not appear, the MRS-1044 has not properly recognized the CD-R/CD-RW drive. Check the power on/off condition of the drive and the SCSI connection.

4. Use the cursor [◀]/[▶] keys to make the display indicate "CD-R/RW FINALIZE", and then press the [ENTER] key. The display indicates the following information.



(1) Total tracks

Indicates the total number of tracks on the CD-R/CD-RW disc.

(2) Play time

Indicates the total playing time of all tracks on the CD-R/CD-RW disc (including pauses) in hours (H), minutes (M), and seconds (S).

5. Press the [ENTER] key.

The display now shows the indication "FINALIZ SURE?".

6. To carry out the finalizing process, press the [ENTER] key once more.

The finalizing process starts. During the operation, the display shows "FINALIZ wait...".

When the finalizing process is finished, the display indication changes to "FINALIZ COMPLETE".

The CD-R/CD-RW disc can now be played on an ordinary CD player. However, no more tracks can be added to it.



By erasing the entire disc, a CD-RW disc can be used again also after finalizing. Refer to the explanation in the next section.

7. To return to the main screen, press the [EXIT] key several times.

Erasing a CD-RW Disc

The entire information on a CD-RW disc (audio data or backup data) can be erased, thereby returning the disc to the blank state.

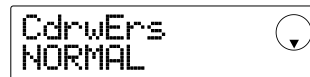
- 1. Verify that the CD-R/CD-RW drive is properly connected to the MRS-1044 and that a suitable CD-RW disc is inserted.**
- 2. In the main screen, press the [PROJECT/UTILITY] key.**
- 3. Use the cursor [◀]/[▶] keys to make the display indicate "UTILITY CD-R/RW", and then press the [ENTER] key.**



If the above menu does not appear, the MRS-1044 has not properly recognized the CD-R/CD-RW drive. Check the power on/off condition of the drive and the SCSI connection.

4. Use the cursor [◀]/[▶] keys to make the display indicate "CD-R/RW CDRW ERS", and then press the [ENTER] key.

The display indication changes to "CdrwErs NORMAL".



5. Use the cursor [▼]/[▲] keys to select one of the following two CD-RW erase methods.

● **NORMAL (Default setting)**

Information from all areas of the disc is erased. This operation takes longer than the QUICK erase operation, but all contents of the disc are reliably erased. This method is recommended. (Required time is max. 74 minutes for a 650 MB disc and 80 minutes for a 700 MB disc.)

● **QUICK**

Only the track information on the CD-RW disc is erased. The operation takes a few minutes.

6. Press the [ENTER] key.

The display now shows the indication "CdrwErs SURE?".

7. To carry out the erase process, press the [ENTER] key once more.

The erase process starts. During the operation, the display shows "CdrwErs wait...".

When the erasing process is finished, the display indication changes to "CdrwErs COMPLETE".

8. To return to the main screen, press the [EXIT] key several times.

Storing a Project on External Media (Project Backup)

You can store any project on an external SCSI device for backup. The following types of SCSI devices can be used.

- CD-R/CD-RW drive
- MO (Magneto-optical disc) drive (128 MB, 230 MB, 540 MB)
- ZIP drive (100 MB, 250 MB)
- Hard disk

Depending on the type of media used for backup, you can have a large project span several media volumes, or add backup data for a separate project on one media volume. The following table shows the available backup methods for various media.

	Adding backup data	Backup/restore spanning several volumes
CD-R (*1)	No	Yes
CD-RW (*2)	No	Yes
MO (*3)	Yes	Yes
ZIP (*3)	Yes	Yes
Hard disk (*3)	Yes	No

*1 Only possible with blank disc

*2 Possible with blank disc or bulk erased disc

*3 Only possible with disc formatted in MRS-1044. (For information on formatting media, refer to page 34.) Even if the media already contains a MRS-1044 backup, you can add more if there is still capacity on the disc.



For a list of compatible drive brands and models, please visit the ZOOM Corporation web site (<http://www.zoom.co.jp>).

1. Verify that the SCSI device is properly connected to the MRS-1044 and that the drive is turned on.
2. When using a CD-R/CD-RW drive, MO drive, or ZIP drive for

backup, make sure that a suitable disc is inserted.

3. In the main screen, press the [PROJECT/UTILITY] key.
4. Use the cursor [◀|/▶] keys to make the display indicate "UTILITY BACKUP", and then press the [ENTER] key.



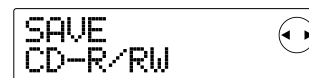
If the above menu does not appear, the MRS-1044 has not properly recognized the SCSI device. Check the power on/off condition of the device and the SCSI connection.

5. Use the cursor [◀|/▶] keys to make the display indicate "BACKUP SAVE", and then press the [ENTER] key.

The screen for selecting the project for backup appears.



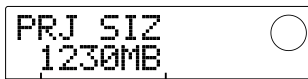
If a CD-R/CD-RW drive and another SCSI device are connected at the same time, a screen for selecting the target device appears after pressing the [ENTER] key in step 5.



Use the cursor [◀|/▶] keys to select "CD-R/RW" (when backing up onto a CD-R/CD-RW drive) or "ExtDRV" (when backing up on another SCSI device).

6. Turn the dial to select a project, and press the [ENTER] key.

The required storage capacity for backing up that project is shown on the display (in MB).



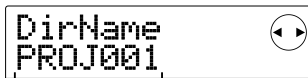
Size of project (required for backup)



When the target device is a hard disk and the capacity of the hard disk is smaller than the project size, backup cannot be carried out.

7. Press the [ENTER] key.

The name of the directory to be used for backup appears.



Directory name

The "directory" (also called "folder") is a hierarchical unit that will be created on the backup media when the backup is executed. All data for the project are stored in that directory.

In the default condition, the directory name is "PROJxxx" (where xxx is the project number). This can be changed as desired. (The currently flashing character can be edited.)

8. If required, use the cursor (<|/>) keys and the dial to edit the directory name, and then press the [ENTER] key.

The display now shows the indication "SAVE SURE?".



For details on the editing procedure and allowable characters, refer to page 36 of the MRS-1044 operation manual.

The subsequent screens and operation steps are slightly different, depending on which kind of drive is selected as backup target.

■ Backing up to a hard disk

9. To execute the backup, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.

While the backup is in progress, the indication "SAVE wait..." is shown on the display. When the backup is finished, the display indication changes to "SAVE COMPLETE".



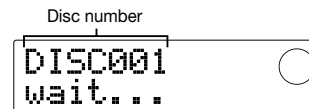
If the hard disk becomes full before the end of the backup process, the indication "SAVE FULL" appears on the display and the backup is aborted. Press the [EXIT] key to return to the previous screen.

10. To return to the main screen, press the [EXIT] key several times.

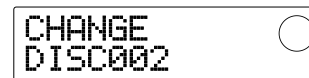
■ Backing up to CD-R/CD-RW drive

9. To execute the backup, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.

When backup starts, the disc number and the indication "wait..." appear on the display.

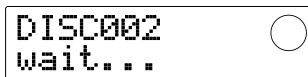


When the project size is larger than the capacity of one CD-R/CD-RW media volume, the disc will be ejected after it has been filled up, and a message prompting the user to insert the next CD-R/CD-RW disc appears.



10. When the above message appears, insert a new CD-R/CD-RW disc, and press the [ENTER] key.

The backup operation resumes. The new disc number and the indication "wait..." appear on the display.



To cancel the operation, press the [EXIT] key to bring up the indication "CANCEL?" on the screen, and then press the ENTER key.



- When a backup spans several media volumes, be sure to note the disc number on the case and label of the disc.
- During restore, CD-R/CD-RW discs must be inserted in the same order as during backup. Otherwise correct restore is not possible.

11. Repeat the above steps until the entire project is backed up.

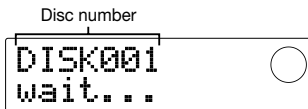
When the backup is finished, the display indication changes to "SAVE COMPLETE".

12. To return to the main screen, press the [EXIT] key several times.

■ Backing up to ZIP or MO drive

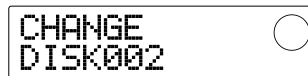
9. To execute the backup, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.

When backup starts, the disc number and the indication "wait..." appear on the display.



When the project size is larger than the capacity of one ZIP media volume, the disc will be ejected after it has been filled up, and a

message prompting the user to insert the next ZIP disc appears.



10. When the above message appears, insert a new ZIP disc, and press the [ENTER] key.

The backup operation resumes. The new disc number and the indication "wait..." appear on the display.

To cancel the operation, press the [EXIT] key to bring up the indication "CANCEL?" on the screen, and then press the ENTER key.



- When a backup spans several media volumes, be sure to note the disc number on the case and label.
- During restore, ZIP discs must be inserted in the same order as during backup. Otherwise correct restore is not possible.

11. Repeat the above steps until the entire project is backed up.

When the backup is finished, the display indication changes to "SAVE COMPLETE".

12. To return to the main screen, press the [EXIT] key several times.

Reading a Stored Project from External Media (Project Restore)

You can read any project that was stored on an external SCSI device back into the hard disk of the MRS-1044.

The screens and operation steps are slightly different, depending on which kind of drive is used as restore source.

■ Restoring from a CD-R/CD-RW drive

1. Verify that the CD-R/CD-RW drive is properly connected to the MRS-1044.
2. In the main screen, press the [PROJECT/UTILITY] key.
3. Use the cursor [←]/[→] keys to make the display indicate "UTILITY BACKUP", and then press the [ENTER] key.



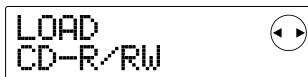
If the above menu does not appear, the MRS-1044 has not properly recognized the CD-R/CD-RW drive. Check the power on/off condition of the drive and the SCSI connection.

4. Use the cursor [◀]/[▶] keys to make the display indicate "BACKUP LOAD", and then press the [ENTER] key.

The indication "LOAD InsDisc1" appears on the display.

If a CD-R/CD-RW drive and another SCSI device are connected at the same time, a screen for selecting the restore source appears after pressing the [ENTER] key in step 4.

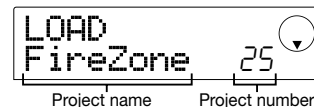
Use the cursor [◀]/[▶] keys to select "CD-R/RW".



5. Insert the CD-R/CD-RW disc (disc number 1) with the stored project into the drive, and press the [ENTER] key.

The name of the project to be restored and the new project number are

shown on the display.



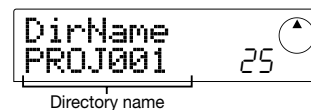
When restoring a project, the MRS-1044 automatically allocates a new project number. This prevents accidentally deleting or overwriting an existing project on the hard disk, even if it has the same name.



- If the backup spans several volumes, make sure that the first disc inserted is the disc number 1. If the disc number is different, correct restore will not be possible.
- To change the restore source disc, press the [EXIT] key and repeat the procedure from step 4.

6. If you wish to check the restore source directory, press the cursor [▼] key.

The display indication changes to the directory name. Pressing the cursor [▲] key returns to the previous display.



7. Press the [ENTER] key.

The indication "LOAD SURE?" appears on the display, to verify the restore process.

8. To execute the restore process, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.

When restore starts, the indication "LOAD wait..." appears on the display.

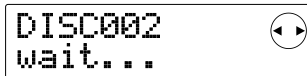
When the project backup spans several CD-R/CD-RW discs, a

message prompting the user to insert the next disc appears after data from the first disc have been read.

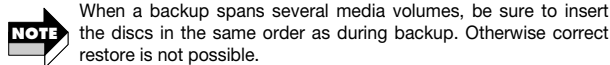


9. When the above message appears, insert the next CD-R/CD-RW disc, and press the [ENTER] key.

The restore operation resumes. The new disc number and the indication "wait..." appear on the display.



To cancel the operation, press the [EXIT] key to bring up the indication "CANCEL?" on the screen, and then press the ENTER key.



When a backup spans several media volumes, be sure to insert the discs in the same order as during backup. Otherwise correct restore is not possible.

10. Repeat the above steps until the entire project is restored.

When the restore operation is finished, the display indication changes to "LOAD COMPLETE".

11. To return to the main screen, press the [EXIT] key several times.

■ Restoring from a ZIP or MO drive

1. Verify that the ZIP or MO drive is properly connected to the MRS-1044.
2. In the main screen, press the [PROJECT/UTILITY] key.
3. Use the cursor [◀]/[▶] keys to make the display indicate

"UTILITY BACKUP", and then press the [ENTER] key.



If the above menu does not appear, the MRS-1044 has not properly recognized the ZIP or MO drive. Check the power on/off condition of the drive and the SCSI connection.

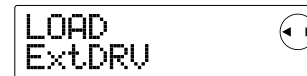
4. Use the cursor [◀]/[▶] keys to make the display indicate "BACKUP LOAD", and then press the [ENTER] key.

The indication "LOAD InsDisk1" appears on the display.



If a CD-R/CD-RW drive and another SCSI device are connected at the same time, a screen for selecting the restore source appears after pressing the [ENTER] key in step 4.

Use the cursor [◀]/[▶] keys to select "ExtDRV".



5. Insert the ZIP or MO disc (disc number 1) with the stored project into the drive, and press the [ENTER] key.

The name of the project to be restored and the new project number are shown on the display.

If you wish to check the restore source directory, press the cursor [▼] key.



- If the backup spans several volumes, make sure that the first disc inserted is the disc number 1. If the disc number is different, correct restore will not be possible.
- To change the restore source disc, press the [EXIT] key and repeat the procedure from step 4.

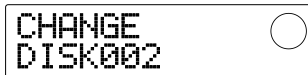
- Turn the dial to select a restore source project, and press the [ENTER] key.

The indication "LOAD SURE?" appears on the display, to verify the restore process.

- To execute the restore process, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.

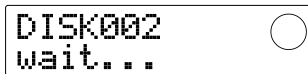
When restore starts, the indication "LOAD wait..." appears on the display.

When the project backup spans several ZIP or MO discs, a message prompting the user to insert the next disc appears after data from the first disc have been read.



- When the above message appears, insert the next ZIP or MO disc, and press the [ENTER] key.

The restore operation resumes. The new disc number and the indication "wait..." appear on the display.



To cancel the operation, press the [EXIT] key to bring up the indication "CANCEL?" on the screen, and then press the ENTER key.



When a backup spans several media volumes, be sure to insert the discs in the same order as during backup. Otherwise correct restore is not possible.

- Repeat the above steps until the entire project is restored.

When the restore operation is finished, the display indication changes to "LOAD COMPLETE".

- To return to the main screen, press the [EXIT] key several

times.

■ Restoring from a hard disk

- Verify that the hard disk is properly connected to the MRS-1044.
- In the main screen, press the [PROJECT/UTILITY] key.
- Use the cursor [◀]/[▶] keys to make the display indicate "UTILITY BACKUP", and then press the [ENTER] key.



If the above menu does not appear, the MRS-1044 has not properly recognized the hard disk. Check the power on/off condition of the hard disk and the SCSI connection.

- Use the cursor [◀]/[▶] keys to make the display indicate "BACKUP LOAD", and then press the [ENTER] key.

The name of the project to be restored and the new project number are shown on the display. If you wish to check the restore source directory, press the cursor [▼] key.



- Turn the dial to select a restore source project, and press the [ENTER] key.

The indication "LOAD SURE?" appears on the display, to verify the restore process.

- To execute the restore process, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.

When restore starts, the indication "LOAD wait..." appears on the display. When the restore operation is finished, the display indication changes to "LOAD COMPLETE".

- To return to the main screen, press the [EXIT] key several times.

Deleting Backup Data

You can delete backup data (directories) from the media used for backup, if the data are no longer needed.

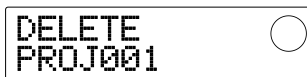
NOTE Once a directory has been deleted, it cannot be restored. Take care not to accidentally delete a directory that you may still need.

1. Verify that the SCSI device is properly connected to the MRS-1044.
2. When using a MO drive, or ZIP drive, make sure that the correct disc is inserted.
3. In the main screen, press the [PROJECT/UTILITY] key.
4. Use the cursor [◀]/[▶] keys to make the display indicate "UTILITY BACKUP", and then press the [ENTER] key.

NOTE If the above menu does not appear, the MRS-1044 has not properly recognized the SCSI device. Check the power on/off condition of the device and the SCSI connection.

5. Use the cursor [◀]/[▶] keys to make the display indicate "BACKUP DELETE", and then press the [ENTER] key.

The screen for selecting the project to delete appears.



6. Turn the dial to select the project to be deleted, and press the [ENTER] key.

The indication "DELETE SURE?" appears on the display, to verify the delete process.

7. To execute the delete process, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.

When delete starts, the indication "DELETE wait..." appears on the

display.

When the delete operation is finished, the display indication changes to "DELETE COMPLETE".

8. To return to the main screen, press the [EXIT] key several times.

NOTE

- When wishing to delete backup data spanning several media volumes, repeat the above procedure for each volume.
- Always verify the directory name, to make sure that you do not accidentally delete another project.

Formatting an External Storage Device

The MRS-1044 can format a connected hard disk or media in a connected ZIP or MO drive. This is required before using ZIP or MO media or a hard disk for the first time.



When formatting is carried out, all data present on the media are lost and cannot be restored. Take care not to accidentally format a disc which contains data that you wish to keep.

1. Verify that the SCSI device is properly connected to the MRS-1044.
2. When using a MO or ZIP drive, make sure that a suitable disc is inserted.
3. In the main screen, press the [PROJECT/UTILITY] key.
4. Use the cursor [◀]/[▶] keys to make the display indicate "UTILITY BACKUP", and then press the [ENTER] key.



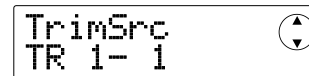
If the above menu does not appear, the MRS-1044 has not properly recognized the SCSI device. Check the power on/off condition of the device and the SCSI connection.

5. Use the cursor [◀]/[▶] keys to make the display indicate "BACKUP FORMAT", and then press the [ENTER] key.
The indication "FORMAT SURE?" appears on the display, to verify the formatting process.
6. To execute the formatting process, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.
When formatting starts, the indication "FORMAT wait..." appears on the display.
When formatting is finished, the display indication changes to "FORMAT COMPLETE".
7. To return to the main screen, press the [EXIT] key several times.

Changing the Length of a V-take (Trimming)

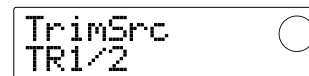
The start position and end position of a recorded V-take can be adjusted, to cut unneeded waveform data. This is useful for example to remove silent portions from a V-take before writing it to CD-R/CD-RW disc.

1. In the main screen, press the [PROJECT/UTILITY] key.
2. Use the cursor [◀]/[▶] keys to make the display indicate "UTILITY TR EDIT", and then press the [ENTER] key.
The track edit menu appears.
3. Use the cursor [◀]/[▶] keys to make the display indicate "TR EDIT TRIM", and then press the [ENTER] key.
The screen for selecting the track/V-take appears.



4. Use the dial and the cursor [◀]/[▶] keys to select the track/V-take for trimming.
In the indication "TR xx- yy", "xx" stands for the track number and "yy" for the V-take number. Use the dial to select the track number (1 – 10) and the cursor [◀]/[▶] keys to select the V-take number (1 – 10).

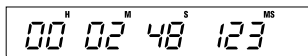
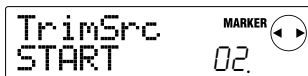
Turning the dial further to the right when track 10 is selected brings up the following indication.



This screen serves for selecting dual odd/even tracks (1/2, 3/4, 5/6, 7/8, 9/10). When dual tracks are selected, the currently selected V-take for each track is automatically selected for trimming.

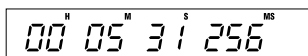
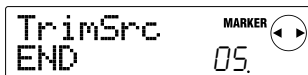
5. Press the [ENTER] key.

The screen for specifying the V-take start point appears.



6. Move the start point back as required, and press the [ENTER] key.

The screen for specifying the V-take end point appears.



HINT For details on how to specify the position, refer to page 39 of the MRS-1044 operation manual.

7. In the same way, move the end point forward as required, and press the [ENTER] key.

By pressing the PLAY [▶] key in the transport section of the MRS-1044, you can play the range from the specified start point to the specified end point.

NOTE The start point cannot be moved forward from the original position, and the end point cannot be moved backward from the original position.

8. When the end point has been specified, press the [ENTER] key.

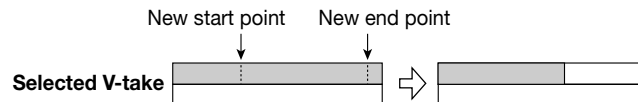
The indication "TrTrim SURE?" appears on the display, to verify the trimming process.

HINT Also after the start point and end point have been specified, the original audio data are still available until the [ENTER] key is pressed in step 9. By pressing the [EXIT] key you can move back through the steps one by one and make corrections if needed.

9. To execute the trimming process, press the [ENTER] key. If you wish to cancel the process, press the [EXIT] key instead.

When you press the [ENTER] key, data outside of the specified start point to end point range are deleted.

When the trimming operation is finished, the display indication changes to "COMPLETE".



NOTE When the start point was moved back, the entire V-take is shifted to the front.

10. To return to the main screen, press the [EXIT] key several times.

If there are problems during MRS-1044 or SCSI device operation, check the following points first.

■ MRS-1044 does not recognize SCSI device

- Check whether SIB-01 is correctly installed.
- Check whether MRS-1044 system has been upgraded to version 1.2.
- Check whether SCSI cable is correctly connected, and whether SCSI device is powered.
- Check whether SCSI ID setting is appropriate.
- Check whether terminator is installed in the last device, or internal terminator has been set to ON. In rare cases, removing the terminator may improve operation stability.

■ Audio CDs created with the MRS-1044 cannot be played on an ordinary CD player

- Check whether the disc was finalized.
- Check whether the CD player is an old model.
On some old CD players, CD-R/CD-RW discs will not play properly as audio CDs, even if the disc was finalized.

■ Audio data cannot be written to the CD-R/CD-RW media

- Check whether the disc has already been finalized.

■ Backup cannot be performed

- Check whether the disc already contains other audio data.
- Check whether the hard disk has enough capacity.

■ A backup spanning multiple volumes cannot be restored

- Was the number one disc inserted in the drive first?

■ When trying to execute a command, one of the following messages appears.

[MO drive, ZIP drive, or hard disk related]

- EMPTY Directory does not exist.
- FULL Hard disk does not have sufficient space.
- NO DATA No applicable data exist.
- NO DISK No disc inserted in ZIP/MO drive
- SAME DIR Directory with the same name already exists.

[CD-R/CD-RW drive related]

- FULL CD-R/CD-RW disc does not have sufficient space.
- NO AUDIO Disc other than audio CD is inserted in CD-R/CD-RW drive.
- NO DATA No applicable data exist.
- NO DISC No disc inserted in CD-R/CD-RW drive.
- NotBLANK CD-R/CD-RW disc is not blank.
- NOT CD-R Disc inserted in CD-R/CD-RW drive is not a CD-R/CD-RW disc.

[MRS-1044 related]

- HDD FULL Internal hard disk of MRS-1044 is full.
- PRJ FULL No more projects can be created on internal hard disk of MRS-1044.



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