



# Boss Loop Station Owner's Manual

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## Boss Loop Station Owner's Manual



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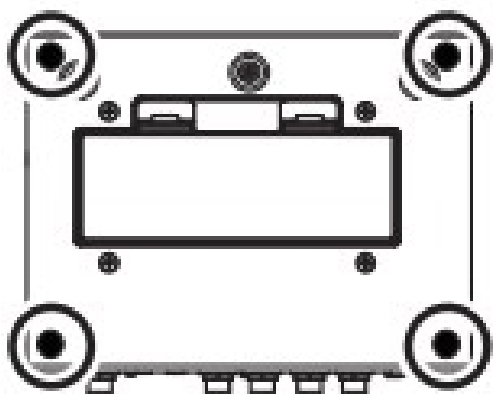
## Installing the Batteries

Install four alkaline batteries (AA, LR6) in the battery compartment located on the bottom of the unit.

- When turning the unit over, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.
- If you handle batteries improperly, you risk explosion and fluid leakage. Make sure that you carefully observe all of the items related to batteries that are listed in “USING THE UNIT SAFELY” and “IMPORTANT NOTES” (separate sheet “USING THE UNIT SAFELY” and owner’s manual.
- “BATTERY LOW” will appear on the display if the batteries are low. Replace them with new ones.

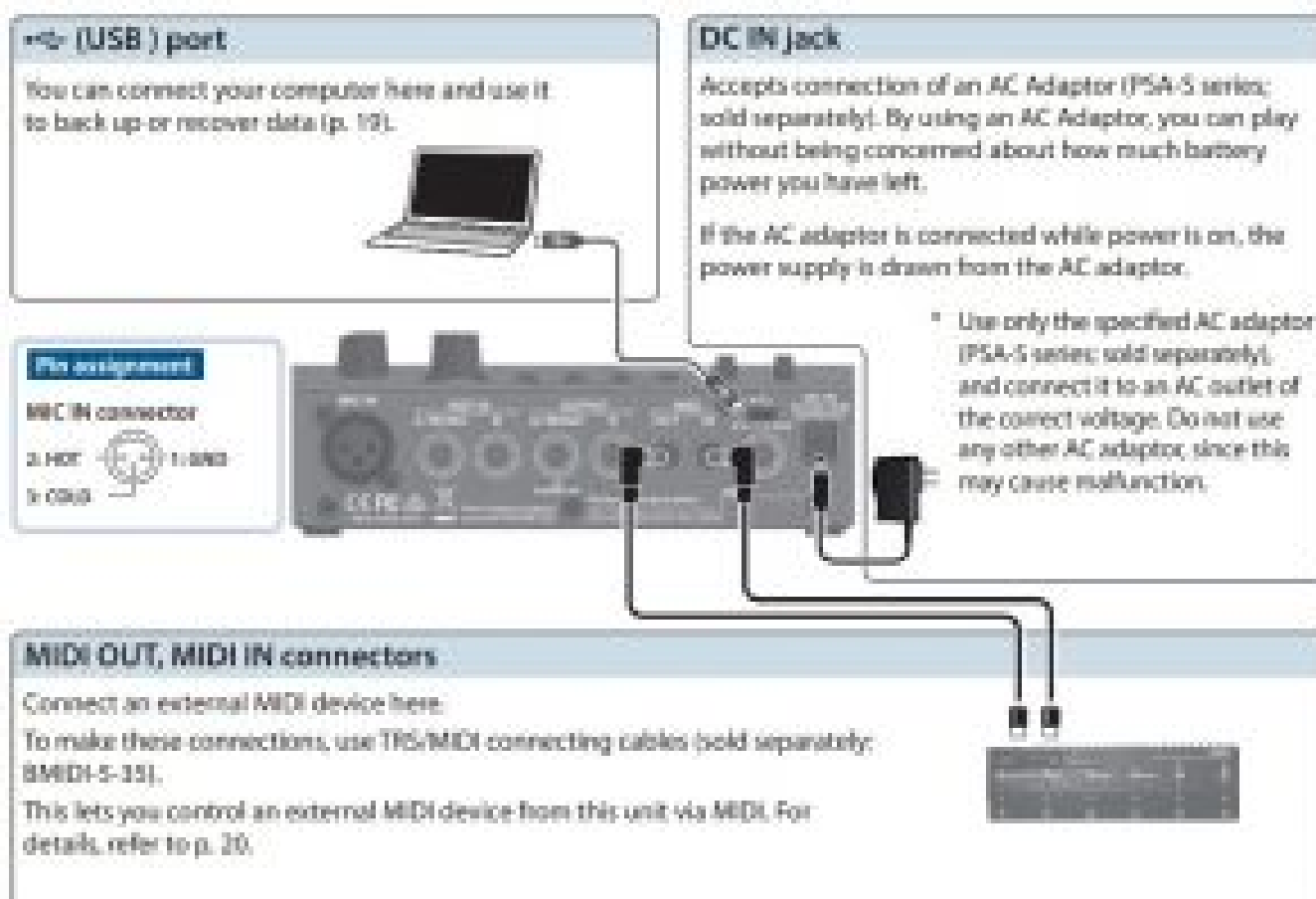
## Attaching the Rubber Feet

You can attach the rubber feet (included) if necessary. Attach them in the locations shown in the illustration.

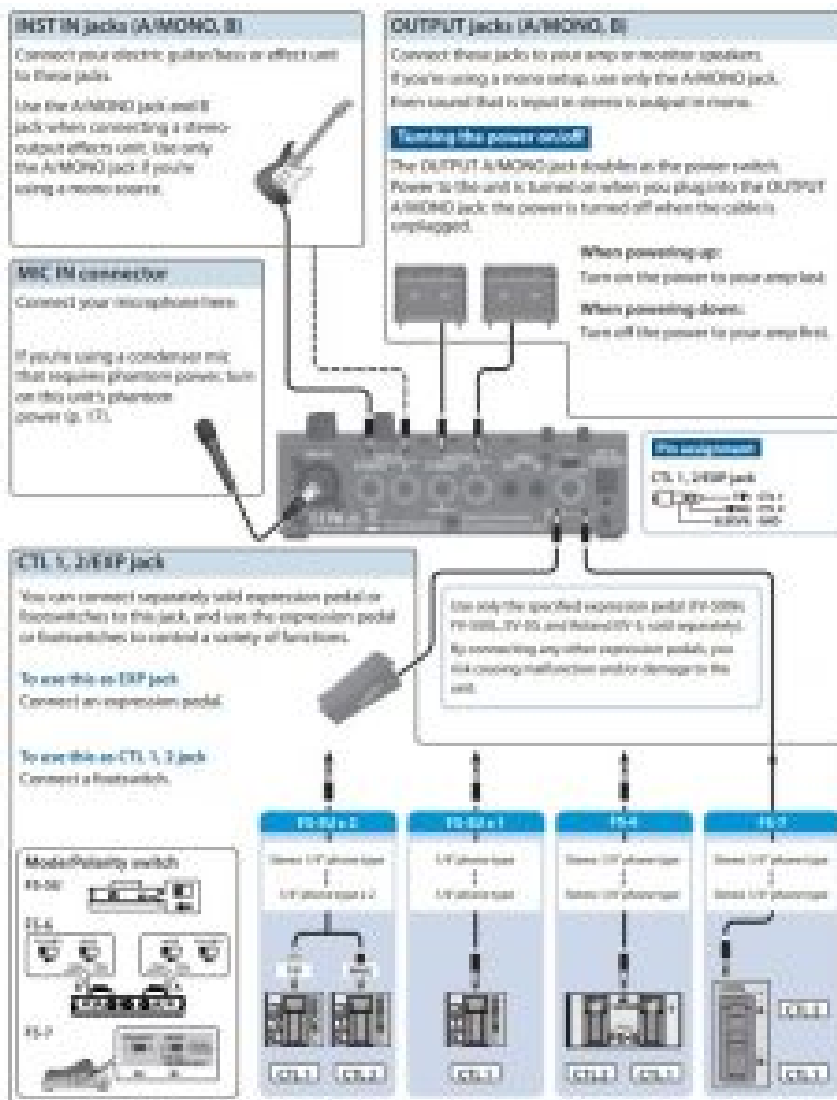


## Connecting the Equipment

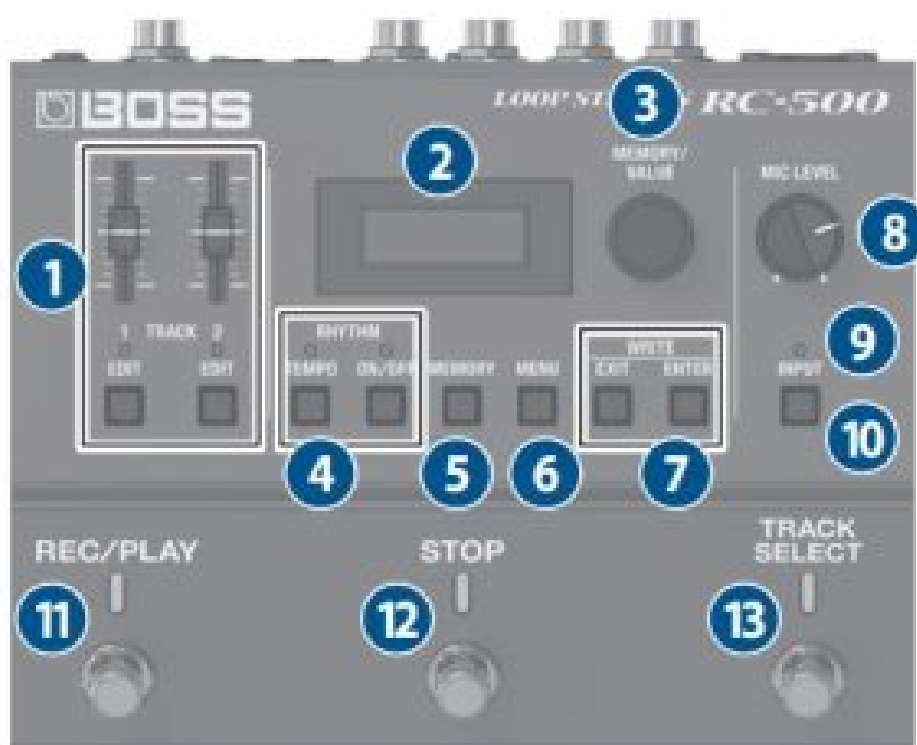
- To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
- Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.



## Connecting the Equipment



Top Panel



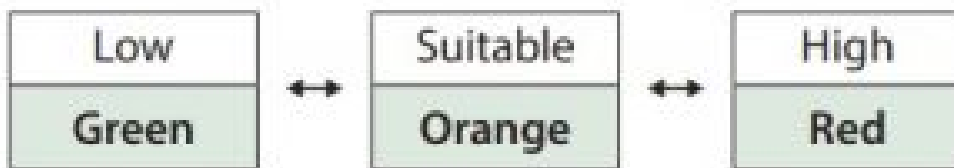
## Name / Explanation

1. TRACK 1, 2		
[TRACK 1], [TRACK 2] sliders	Adjust the playback levels of tracks 1 and 2	
TRACK 1, 2 indicators	Indicate the status of the tracks.	
	Lit blue	No phrase
	Lit red	Recording
	Lit green	Playing
	Lit Yellow	Overdubbing
	Lit White	Phrase exists
	Blink	Currently selected track (current track)
TRACK 1, 2 [EDIT] buttons	Press to make track settings. Press a button twice to switch the current track.	
2. Display		
Shows various information of the RC-500. During recording/playback/overdubbing, the color of the screen changes according to the status.		
Lit blue	No phrase	

Lit Red	Recording	
Lit Green	Playing	
Lit Yellow	Overdubbing	
Lit White	Phrase Exits	
3. [Memory/Value] knob		
Turning	Selects a memory. When editing, selects a parameter or changes a value.	
Pressing	Specifies the parameter to edit. Alternatively, confirms an operation.	
Turn while pressing	Changes a value in larger steps.	
4. Rhythm		
TEMPO indicator	Blinks in time with the specified tempo	
[TEMPO] button	Press to specify the tempo of the rhythm. You can also set the tempo by pressing the button at the desired interval (tap tempo).	
ON/OFF indicator	Indicates the status of the rhythm.	
	Unlit	Off
	Lit Green	On

	Blink	Ready to play Rhythm
[ON/OFF] button	Each time you press the button, the rhythm switches on/off/standby. Long-press the button (two seconds or longer) to select rhythm settings mode.	
5. <b>[MEMORY] button</b>		
Let's you make settings for loop play/record, and specify the function of an expression pedal or footswitch connected to this unit.		
6. <b>[MENU] button</b>		
Let's you make settings that affect the entire RC-500, such as system settings and MIDI settings.		
7. <b>Write</b>		
[EXIT] button	Press to return to the previous screen.	
[ENTER] button	Press to confirm an operation.	
By pressing the [EXIT] button and [ENTER] button simultaneously, you can save a memory (write) or erase (clear) memory data.		
8. <b>[MIC LEVEL] knob</b>		
Adjusts the mic input level		
9. <b>INPUT indicators</b>		

These are lit according to the input level.



Adjust the input level so that the indicator is occasionally lit red.

- With the factory settings, the indicators are set to show the input level of the MIC IN and INST IN mixed together. You can switch what is shown.

## 10. Input Button

Press to turn phantom power on/off, or to make settings related to input and output

## 11. (REC/PLAY) Switch

Switches between recording, playback, and overdubbing

Recording → Playback → overdubbing

For a phrase that contains data

Playback → overdubbing

Long press (two seconds or longer) the switch during playback or overdubbing to Undo (cancel the recording or the last overdubbing). Long press (two seconds or longer) the switch once again to Redo (cancel the Undo)

## 12. Stop Switch

Stops the track that is currently recording/playing/ overdubbing. If you long-press the switch (two seconds or longer), the track is cleared.

### 13. Track Select Switch

Switches between tracks 1 and 2.

#### **Memo:**

You can assign other functions to the [REC/PLAY], [STOP], and [TRACK SELECT] switches. For details, refer to “Specifying the Function of the Switches”.

## Getting Ready How the RC-500 Is Organized

#### **Track:**

You can use two “tracks” to record and play back audio from a mic or from an instrument such as guitar.

#### **Loop FX:**

The effect applied to the tracks is called the “loop FX.” By applying the loop FX, you can change how the loop plays back.

#### **Rhythm:**

In addition to the two tracks, the RC-500 can also play a “Rhythm”. You can record while listening to a rhythm at the tempo you specify.

#### **Memory:**

The two tracks, together with the “rhythm” and “loop FX” settings, are collectively called a “memory.” The RC-500 can store up to 99 memories.

#### **System:**

Settings that are common to the entire RC-500, such as the display contrast adjustment and MIDI settings, are called “system settings.”

#### **“Recording” versus “Overdubbing”**

In this manual, we refer to the act of recording to an empty track for the first time as “recording.” Any subsequent recordings that are made, which are added on top of the existing recording, we refer to as “over dubbning.”

#### **Play screen**

The screen that appears after you turn on the power is called the “Play screen.”



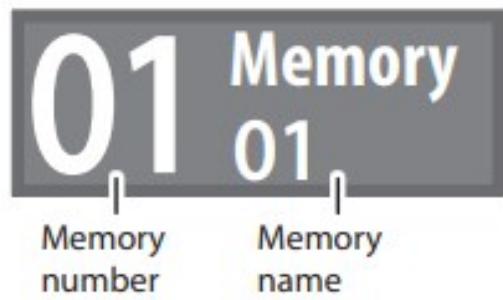
## Recording on a Single Track

### Getting ready to record

1. Connect your guitar or mic.

- If a mic is connected, use the [MIC LEVEL] knob to adjust the mic input level.

2. Turn the [MEMORY/VALUE] knob to select a memory.



Screen	Status
Blue	Empty Track
White	Track Contains Data

3. Press the [TRACK SELECT] switch to the track 1 or 2.



Track Indicator Status	
Lit Blue	No Phrase
Blink blue	No Phrase (current track)
Lit White	Phrase Exists
Blink White	Phrase exists (current track)

#### MEMO:

The track that is currently selected (currently the target of operations) is called the “current track.”

#### Recording

1. **Press the [REC/PLAY] switch to start recording.**

The screen and the REC/PLAY indicator are lit red.

2. **Play your guitar or vocalize into your mic to input audio.**



#### Playback

1. **Press the [REC/PLAY] switch.**

The screen and the REC/PLAY indicator are lit green. The recorded phrase plays as a loop.



#### Overdubbing

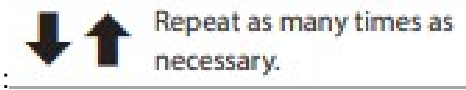
1. **Press the [REC/PLAY] switch to start overdubbing.**

The screen and the REC/PLAY indicator are lit yellow.

2. Overdub-record your performance (audio) onto the phrase that's playing as a loop.



### Playback



### Overdubbing

#### Stopping



1. Press the [STOP] switch.

The screen and the REC/PLAY indicator are lit white. If you want to keep the recorded phrase, save it in a memory.

## Recording on Two Tracks

You can use two tracks to create a single loop phrase. In this example, we explain how to record in the order of "track 1" → "track 2."

Press the [TRACK SELECT] switch to select track 1.



#### Recording (Track 1)



1. Press the [REC/PLAY] switch to start recording.

The screen and the REC/PLAY indicator are lit red.

2. Play your guitar or vocalize into your mic to input audio.



### Playback (Track 1)

1. Press the [REC/PLAY] switch.

The screen and the REC/PLAY indicator are lit green.

The recorded phrase plays as a loop.



Repeat as many times as necessary.

### Overdubbing (Track 1)

1. Press the [REC/PLAY] switch to start overdubbing.

The screen and the REC/PLAY indicator are lit yellow.

2. Overdub-record your performance (audio) onto the phrase that's playing as a loop.



### Playback (Track 1)

Press the [REC/PLAY] switch to start overdubbing.



Press the [TRACK SELECT] switch to select track 2.



### Recording (Track 2)

1. Press the [REC/PLAY] switch to start recording.

The screen and the REC/PLAY indicator are lit red.

2. Record your performance while you listen to the loop playback of track 1.



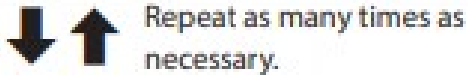
### Playback (Track 2)

1. Press the [REC/PLAY] switch.

The screen and the REC/PLAY indicator are lit green. The phrase recorded on track 2 plays as a loop.



### Overdubbing (Track 2)



### Playback (Track 2)

#### Stopping

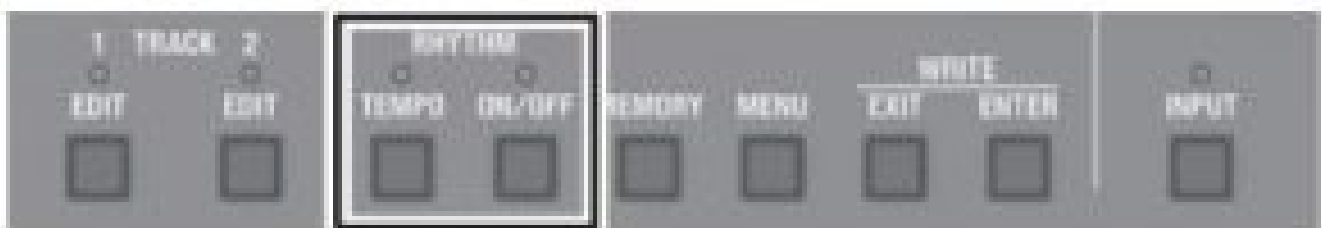
##### 1. Press the [STOP] switch.

The screen and the REC/PLAY indicator are lit white. If you want to keep the recorded phrase, save it in a memory.



### Record While Listening to the Rhythm Sound

In addition to the two tracks, the RC-500 can also play a "Rhythm." You can record while listening to a rhythm at the tempo you specify.



#### Sounding a Rhythm

##### 1. Press the RHYTHM [ON/OFF] button.

The rhythm switches on/off/ready to play rhythm each time you press the button. When the rhythm is on, the RHYTHM ON/OFF indicator is lit.

#### Setting the Tempo of Rhythm

##### 1. Press the RHYTHM [TEMPO] button.

The tempo setting screen appears.



2. While the tempo setting screen is shown, turn the [MEMORY/VALUE] knob to set the tempo.

Value: 40.0300.0

### Tap tempo

You can set the tempo by pressing a button at the desired interval.

1. Press the RHYTHM [TEMPO] button several times in time with the desired tempo.

### MEMO:

If you long-press the RHYTHM [TEMPO] button (two seconds or longer), the tempo returns to the default value.

- The specified tempo can be saved as a setting in memory
  - ➔ Saving a Memory (WRITE)
- You can specify the volume and type of rhythm, and how the rhythm plays.
  - ➔ "Editing the Rhythm Settings".

### Saving a Memory (Write)

If you select a different memory or turn off the power after recording or editing the settings, the recorded content or edited settings will be lost. If you want to keep the data, you must save it.

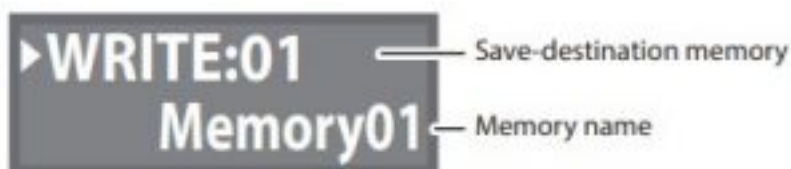


1. Press the [EXIT] button and [ENTER] button simultaneously.

The UTILITY screen appears.



2. Turn the [MEMORY/VALUE] knob to select "WRITE," and press the [MEMORY/VALUE] knob.



3. Turn the [MEMORY/VALUE] knob to select the save-destination memory.

- This procedure is not required if the memory number is acceptable as is.
- If you decide to cancel, press the [EXIT] button.

**4. Press the [MEMORY/VALUE] knob or [ENTER] button.**

The memory will be saved.

- Do not turn off the power while the “EXECUTING...” message is shown.

**MEMO:**

You can assign a name to the memory. For details, refer to “Parameter Guide” (PDF).

## Erasing Data from a Memory (CLEAR)

You can erase the data that is saved in a memory, clearing that memory to an empty state.

- Record/playback settings.
- CONTROL settings
  - \* If CTL1–2 PREF is “MEMORY”
- “Assign” settings.

**1. Press the [EXIT] button and [ENTER] button simultaneously.**

The UTILITY screen appears.



**2. Turn the [MEMORY/VALUE] knob to select “CLEAR,” and press the [MEMORY/VALUE] knob.**



**3. Turn the [MEMORY/VALUE] knob to select the memory that you want to clear.**

- This procedure is not required if the memory number is acceptable as is.
- If you decide to cancel, press the [EXIT] button.

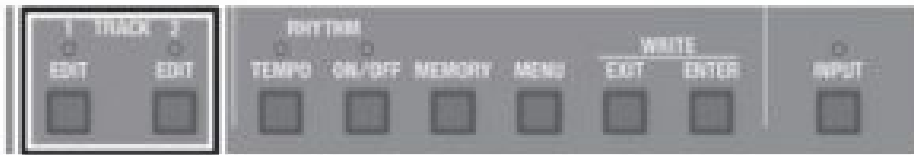
**4. . Press the [MEMORY/VALUE] knob or [ENTER] button.**

The memory will be cleared.

- \* Do not turn off the power while the “EXECUTING...” message is shown.

## Editing the Settings of Tracks 1 and 2

You can specify the volume and playback method for track 1 and track 2. For details on the parameters, refer to “Parameter Guide” (PDF).



Here we explain how to edit the settings of track 1. The procedure is the same when editing track 2.

1. **Select the memory for which you want to edit the track settings.**
2. **Press the TRACK 1 [EDIT] button.**

The track settings screen appears.



3. **Turn the [MEMORY/VALUE] knob to select the parameter that you want to edit, and press the [MEMORY/VALUE] knob.**



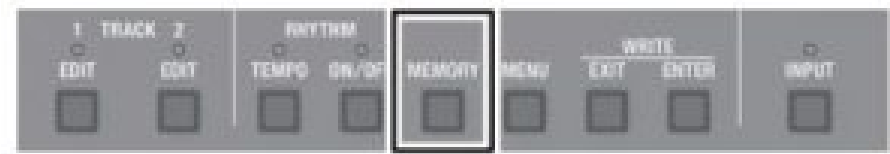
4. **Turn the [MEMORY/VALUE] knob to change the value, and press the [MEMORY/VALUE] knob.**
5. **Repeat steps 3-4 to edit the parameter that you want.**
6. **Press the TRACK 1 [EDIT] or [EXIT] button to return to the play screen.**
7. **If you want to save the edited settings, execute the Write operation.**

Parameter	Explanation
REVERSE	Specifies whether to play back normally or in reverse.
LOOP FX	Specifies whether to apply the loop FX.
1SHOT	Specifies whether to play back as one- shot or as the usual loop playback.

<b>LEVEL</b>	Adjusts the playback level of the track. You can also use the [TRACK 1] and [TRACK 2] sliders to adjust the playback level.
<b>PAN</b>	Specifies the stereo position (pan) of the track.
<b>START</b>	Specifies whether playback starts with a fade-in or immediately when the track plays.
<b>STOP</b>	Specifies how the track stops.
<b>MEASURE</b>	Specifies the number of measures in the track.
<b>LOOPS (LOOP SYNC)</b>	Specifies whether the beginning of the track 1 and track 2 phrases are aligned for loop playback, or whether they loop-play at the length of their respective phrases.
<b>TEMPO.S (TEMPO SYNC)</b>	Specifies whether each track plays at its original tempo (the tempo during recording) or at the tempo that is specified in memory.
<b>INPUT</b>	Specifies the input from which sound is recorded.
<b>OUTPUT</b>	Specifies the output destination of the playback audio.

## Editing the Settings of a Memory

Here’s how to edit the settings of each memory. For details on the parameters, refer to “Parameter Guide” (PDF).



- 1. Select the memory that you want to edit.
- 2. Press the [MEMORY] button.

The memory settings screen appears.



- 3. Turn the [MEMORY/VALUE] knob to select the item that you want to edit, and press the [MEMORY/VALUE] knob.



- 4. Turn the [MEMORY/VALUE] knob to select the parameter that you want to edit, and press the [MEMORY/VALUE] knob.



- 5. Turn the [MEMORY/VALUE] knob to change the value.
- 6. Press the [MEMORY] button to return to the play screen.
- 7. If you want to save the edited settings, execute the Write operation.

Item	Explanation
REC	Make settings related to recording/ overdubbing.

<b>PLAY</b>	Specify how loop phrases play back.
<b>LOOP FX</b>	Make settings for loop FX.
<b>RHYTHM</b>	Make rhythm settings.
<b>CONTROL</b>	<p>Specify the functions of the [REC/PLAY] switch, [STOP] switch, [TRACK SELECT] switch, and a footswitch or expression pedal connected to the CTL 1, 2/EXP jack.</p> <p>* With the factory settings, these perform the functions that are specified by the system settings.</p>
<b>ASSIGN1–8</b>	<p>Make “assign” settings.</p> <p>By using the assign settings, you can control other parameters at the same time as the specified functions when you operate the RC-500’s switches/knobs or a footswitch or expression pedal connected to the CTL 1, 2/EXP jack.</p> <p>You can also make settings to control the RC-500 from an external MIDI device.</p> <p>Eight assign settings can be specified for each memory.</p>
<b>NAME</b>	<p>Specifies the memory name.</p> <p>* Maximum of 12 characters</p>

### Using the Loop FX

By applying the loop FX, you can change how the loop plays back.

1. In step 3 of p. 12, select “LOOP FX” and then press the [MEMORY/VALUE] knob.
2. Press the [MEMORY/VALUE] knob, then turn the [MEMORY/VALUE] knob to select “ON,” and then press the [MEMORY/VALUE] knob.
3. Turn the [MEMORY/VALUE] knob to select “TYPE,” and press the [MEMORY/VALUE] knob.



4. Turn the [MEMORY/VALUE] knob to set the type.
5. Press the [MEMORY] button to return to the play screen.
6. If you want to save the edited settings, execute the Write operation.

Type	Explanation
<b>REPEAT1–3</b>	Plays the track repeatedly in time with the beat.
<b>SHIFT1–2</b>	The track will play shifted by the length of the beat.
<b>SCATTER1–4</b>	The track will be scrubbed in time with the beat.
<b>VINYL FLICK</b>	The track will sound as though you are touching the turntable.

#### **MEMO:**

The function of turning loop FX on/off can be assigned to the [REC/PLAY], [STOP], or [TRACK SELECT] switch.

#### **Specifying the Function of the Switches**

As appropriate for your method of use, you can assign other functions to the [REC/PLAY], [STOP], and [TRACK SELECT] switches.

As an example, here's how to assign the following functions to these switches.

Switch	Function
<b>[REC/PLAY]</b>	Track 1 record/play/stop (clear)
<b>[STOP]</b>	Track 2 record/play/stop (clear)
<b>[TRACK SELECT]</b>	Loop FX On/Off

1. In step 3 of p. 12, select “CONTROL” and then press the [MEMORY/VALUE] knob.
2. Turn the [MEMORY/VALUE] knob to select one of “PDL 1 FUNC” to “PDL 3 FUNC,” and press the [MEMORY/VALUE] knob.



3. Turn the [MEMORY/VALUE] knob to make the following settings.

Parameter	Value
PDL 1 FUNC	T1 R/P/S(C
PDL 2 FUNC	T2 R/P/S(C
PDL 3 FUNC	LOOP FX

4. Press the [MEMORY] button to return to the play screen.

The functions assigned to each switch can be saved and used as “system” settings (one for the entire unit) or as “memory” settings (individual memories).

**To save and use the assignments as system settings:**

In the system settings (p. 16), set PREF/PDL13 PREF to “SYSTEM.” There is no need to execute the Write operation.

**To save and use the assignments as memory settings:**

In the system settings, set PREF/PDL13 PREF to “MEMORY.” Execute the Write operation to save the settings in a memory.

## Editing the Rhythm Settings

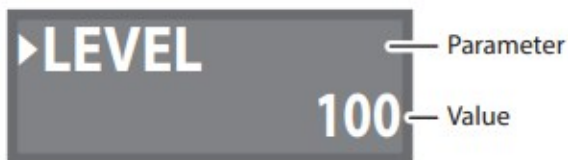
For details on the parameters, refer to “Parameter Guide” (PDF).

\* Rhythm parameters can also be edited from the edit screens for a memory.



1. Select the memory for which you want to edit the rhythm settings.
2. Long press the RHYTHM [ON/OFF] button.

The rhythm settings screen appears.



3. Turn the [MEMORY/VALUE] knob to select the parameter that you want to edit, and press the [MEMORY/VALUE] knob.



4. Turn the [MEMORY/VALUE] knob to change the value, and press the [MEMORY/VALUE] knob.
5. Repeat steps 34 to edit the parameter that you want.
6. Long press the RHYTHM [ON/OFF] button, or press the [EXIT] button to return to the play screen.
7. If you want to save the edited settings, execute the Write operation.

Parameter	Explanation
LEVEL	Adjusts the volume of the rhythm sound.
REVERB	Specifies the depth of the reverb that is applied to the rhythm.
PATTERN	Selects the rhythm pattern.
VARIATION	Selects the rhythm pattern variation.
VAR.CHANGE	Specifies the timing at which the rhythm pattern's variation is changed.
KIT	Selects the drum kit used to play the rhythm.
BEAT	Specifies the time signature of the rhythm.

<b>START</b>	Specifies how rhythm playback starts.
<b>STOP</b>	Specifies how rhythm playback stops.
<b>REC COUNT</b>	Specifies whether a count-in is heard for recording.
<b>PLAY COUNT</b>	Specifies whether a count-in is heard for playback.
<b>FILL</b>	Specifies whether the rhythm plays with a fill-in or without a fill-in.
<b>PART1–4</b>	Specify individually whether each drum sound of the selected drum kit is heard.
<b>TONE LOW</b>	Adjusts the tonal character of the rhythm sound.
<b>TONE HIGH</b>	

### Changing How the Rhythm Starts and Stops

As appropriate for your recording method or the phrase that you're recording, you can change the way in which the rhythm starts and stops.

1. In step 3 of p. 14, select “START” and then press the [MEMORY/VALUE] knob.



2. Turn the [MEMORY/VALUE] knob to specify how the rhythm starts, and then press the [MEMORY/VALUE] knob.



3. Turn the [MEMORY/VALUE] knob to select “STOP,” and press the [MEMORY/VALUE] knob.
4. Turn the [MEMORY/VALUE] knob to specify how the rhythm stops, and then press the [MEMORY/VALUE] knob.
5. Long press the RHYTHM [ON/OFF] button, or press the [EXIT] button to return to the play screen.
6. If you want to save the edited settings, execute the Write operation.

Parameter	Explanation
<b>START</b>	
<b>LOOP START</b>	The rhythm plays when loop recording or playback starts.
<b>REC END</b>	<p>The rhythm plays when loop recording ends and switches to playback.</p> <p>This is useful if you want to perform without specifying a tempo, then start recording, and then play the loop in time with the rhythm when playback starts.</p>
<b>BEFORE LOOP</b>	<p>The rhythm plays before loop recording or playback.</p> <p>The rhythm starts playing when you press the switch once, and recording/playback starts in time with the rhythm when you press the switch once again.</p>
<b>Stop</b>	
<b>OFF</b>	<p>The rhythm always continues playing.</p> <p>If you are performing in synchronization with an external MIDI device, you can keep the rhythm playing continuously to allow synchronized playback.</p>
<b>LOOP STOP</b>	The rhythm stops when the loop stops.
<b>REC END</b>	<p>The rhythm stops when loop recording ends.</p> <p>This is useful when you want to use the rhythm as a guide during recording.</p>

## System Settings

For details on the parameters, refer to “Parameter Guide” (PDF).

1. Press the [MENU] button.  
The SETUP screen appears.



2. Turn the [MEMORY/VALUE] knob to select the item that you want to edit, and press the [MEMORY/VALUE] knob.



3. Turn the [MEMORY/VALUE] knob to select the parameter that you want to edit, and press the [MEMORY/VALUE] knob.



4. Turn the [MEMORY/VALUE] knob to change the value.
5. Press the [MENU] button to return to the play screen.

Item	Parameter/Explanation
	<b>DISP CONT</b>
	Adjusts the display contrast.
	<b>DISP MODE</b>
	Specify what is shown in the screen during recording, playback, and overdubbing .  * If you use the unit with High Brightness mode turned on, we recommend that you use an alkaline battery.

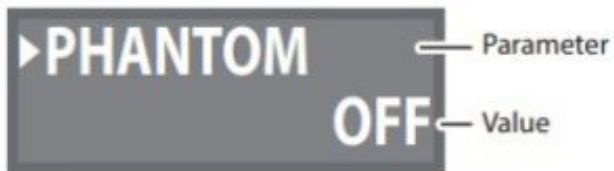
GENERAL	UNDO/REDO
	Specifies whether Undo/Redo is executed while you hold down the switch, or the instant that you take your foot off the switch.
PREFERENCE	PDL1–3 PREF, CTL1–2 PREF, EXP PREF
	Selects whether the [REC/PLAY] switch, [STOP] switch, [TRACK SELECT] switch, and a footswitch or expression pedal connected to the CTL 1, 2/EXP jack perform the functions specified by each memory or the functions specified by the system settings.
MIDI	Refer to <a href="#">“Controlling Devices via MIDI”</a>
EXTENT	EXT1–5 MIN, EXT1–5 MAX
	Specifies the extent (lower limit and upper limit) in which memories can be switched.  You can create five types of settings.
STORAGE	Refer to <a href="#">“Connecting a Computer via USB”</a>
F.RESET	Returns the RC-500 to its factory-set state.

## Input/Output Settings

Here’s how to make settings such as phantom power on/off, and settings related to the input and output jacks. For details on the parameters, refer to “Parameter Guide” (PDF).

### 1. Press the [INPUT] button.

The editing screen for input/output settings appears.



2. Turn the [MEMORY/VALUE] knob to select the parameter that you want to edit, and press the [MEMORY/VALUE] knob.



3. Turn the [MEMORY/VALUE] knob to change the value, and press the [MEMORY/VALUE] knob.
4. Repeat steps 23 to edit the parameter that you want.
5. Press the [INPUT] or [EXIT] button to return to the play screen.

Parameter	Explanation
<b>PHANTOM</b>	<p>Turns phantom power on/off.</p> <p><b>NOTE</b></p> <p>Always turn the phantom power off when connecting any device other than condenser microphones that require phantom power.</p>
<b>MIC IN</b>	Specifies the output destination of the audio that is input to the MIC IN jack.
<b>INST IN</b>	Specifies the output destination of the instrumental sound that is input to the INST I N (A/MONO, B) jacks.
<b>RHYTHM</b>	Specifies the output destination of the rhythm sound.
<b>MIC IN NS</b>	Specifies the depth of the noise suppressor that's applied to the audio input from the MIC IN jack.
<b>INST IN NS</b>	Specifies the depth of the noise suppressor that's applied to the instrumental sound i nput from the INST IN (A/MONO, B) jacks.
<b>PEAK SRC</b>	Specifies the input/output that is shown by the INPUT indicator.

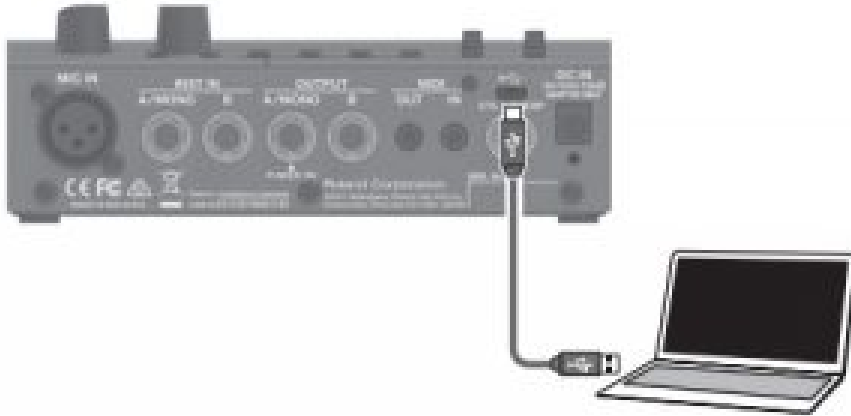
### Connecting a Computer via USB

If the RC-500 is connected via USB to your computer, you'll be able to do the following.

- Back up the RC-500's data to your computer.
- Restore (recover) backed-up data from your computer to the RC-500.
- Use BOSS TONE STUDIO to import or back-up loop phrases (audio files).

Access the following URL, and download BOSS TONE STUDIO. & <https://www.boss.info/support/>

1. Use a commercially available USB cable to connect the RC-500's O (USB) port to your computer's USB port.



- Use a USB cable that supports USB 2.0 Hi-Speed.
- Do not use a micro USB cable that is designed only for charging a device. Charge-only cables cannot transmit data.
- This might not work correctly for some models of computer. Refer to the BOSS website for details on the operating systems that are supported.

1. Press the [MENU] button. The SETUP screen appears.



**STORAGE** **OFF**

4. Use a USB cable to connect the RC-500's USB port to your computer's USB port.

\* USB connection is not possible if the unit is not stopped, or if there is a phrase that has not been saved.

**5. Open the BOSS RC-500 drive.**

## Windows

Within My Computer (or Computer), open “BOSS RC-500” (or Removable Disk).

## Mac OS:

On the desktop, open the “BOSS RC-500” icon.

6. Back-up or recover the data.

## Backup:

Copy the entire “ROLAND” folder from the BOSS RC-500 drive to your computer.

## Recover:

\* When you execute this operation, the memory currently saved in the RC-500 disappears. Back up in advance.

**In the BOSS RC-500 drive, delete the “ROLAND” folder, and then copy the backed-up “ROLAND” folder from the computer into the BOSS RC-500 drive.**

**NOTE:** Do not delete the folders in the BOSS RC-500 drive other than when executing the recovery operation.

7. Eject the USB drive.

## Windows:

In the lower right of your screen, click the  icon →  icon, and then click “Eject BOSS RC-500.”

## Mac OS:

Drag the “BOSS RC-500” icon to the trash (“Eject” icon).

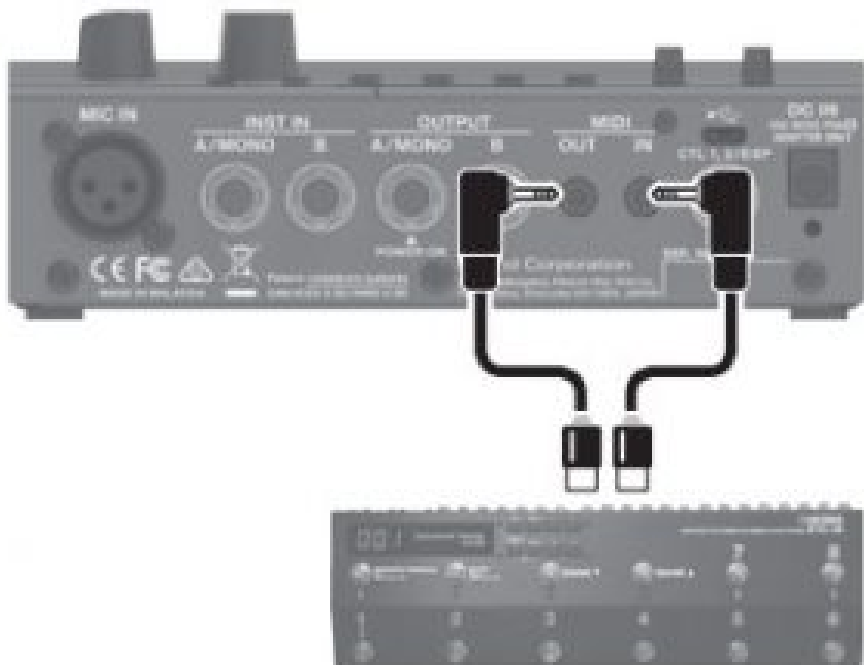
## Controlling Devices via MIDI

### Connection

MIDI cables are connected to these connectors as needed.

Connector	Explanation
MIDI IN	Receives messages from another MIDI device.
MIDI OUT	Transmits messages from this device.

To make these connections, use TRS/MIDI connecting cables (sold separately: BMIDI-5-35).



### MIDI Settings

Use of MIDI requires that the MIDI channels be matched with those of the connected device. Data cannot be transmitted to, nor received from another MIDI device unless the MIDI channels are set properly. For details on each of the MIDI setting parameters, refer to “Parameter Guide” (PDF).

### Controlling an External MIDI Device from the RC-500

Overview	Explanation
Transmitting tempo data and data for starting and stopping playback	
<p>The RC-500’s performance tempo data is transmitted to external MIDI devices as MIDI Clock.</p>	<p><b>Setting an external MIDI device to the same tempo as the RC-500:</b>  MIDI Clock messages are output from the RC-500 at all times. Set the external MIDI device beforehand so it is ready to receive MIDI Clock and MIDI Start and Stop messages. For details, refer to the owner’s manual that came with the device.</p>

<p>Playback start and stop operations with the RC-500's switches can be transmitted as MIDI Start and Stop messages.</p>	<p><b>Transmitting Start/Stop</b></p> <p>A MIDI Start message is transmitted at the moment that recording or playback of the track begins, when tracks had been stopped. This message is also transmitted when an All Start is carried out. A MIDI Stop message is transmitted when tracks have stopped. This is also transmitted when All Stop is carried out.* If you want MIDI synchronized performance to continue even after the track stops, set the RHYTHM parameter STOP to "OFF."* Tracks whose 1SHOT setting (p. 11) is "ON" and tracks whose LOOP.S setting (p. 11) is "OFF" will not transmit Start/Stop data</p>
<p>Transmitting Program Change messages</p>	
<p>When a memory is selected with the RC-500, a Program Change message corresponding to the selected memory number is transmitted simultaneously.</p>	<p><b>Transmitting Program Change messages</b></p> <p>When memories are switched on the RC-500, a MIDI Program Change message is transmitted to the connected external MIDI device. You can transmit Program Change messages numbered 1 through 99, corresponding to the 99 individual memories 1–99.</p> <p>* Set "PC OUT" to ON beforehand.</p> <p>* Program Change messages 100–128 cannot be transmitted.</p> <p>* Bank Select MIDI messages (Control Change #0, #32) cannot be transmitted</p>
<p>Transmitting Control Change messages</p>	

Operating information for the RC-500's switches, buttons, knobs, and an external expression pedal or footswitch is transmitted as Control Change messages.	<b>Transmitting Control Change messages</b>  If you select a Control Change as the "ASSIGN" target, you can transmit MIDI Control Change messages by operating the RC-500's switches, buttons, knobs, or an external footswitch or expression pedal (connected to the CTL 1, 2/EXP jack).
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## Controlling the RC-500 from an External MIDI Device

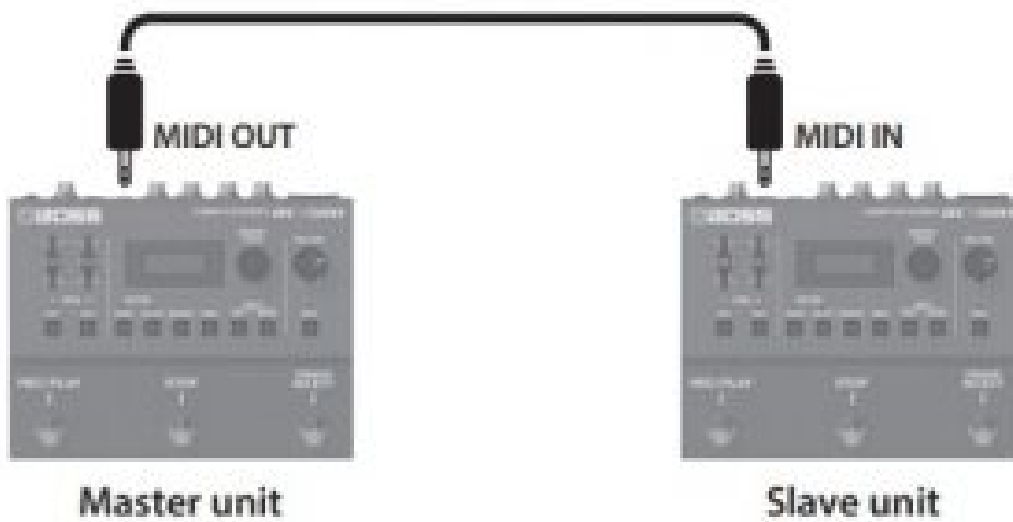
Overview	Explanation
Receiving tempo data and data for starting and stopping playback	
The RC-500 will synchronize to the tempo of MIDI Clock data from an external MIDI device.	<p>Setting the RC-500 to the same tempo as an external MIDI device</p> <p>Make settings on your external MIDI device so that it will transmit MIDI Clock and MIDI Start/Stop data. For details, refer to the owner's manual of your device. Set the RC-500's MIDI SYNC to "AUTO."</p> <p>* You can't switch the tempo during recording</p>
Start/stop data will be received from an external MIDI device to play/stop the RC-500.	<b>Receiving MIDI Start</b>  When MIDI Start (FA) is received, all tracks will play (All Start).
Switching memories	

<p>The RC-500's memories switch simultaneously upon receipt of corresponding Program Change messages from external MIDI devices.</p>	<p><b>Switching memories</b></p> <p>You can switch the RC-500's memories with Program change messages from external MIDI devices. The RC-500 can receive program change messages numbered 1 through 99, corresponding to the 99 individual memories 1–99.</p> <p>* Program Change messages 100–128 cannot be received.</p> <p>* Even if received, Bank Select MIDI messages (Control Change #0, #32) are disregarded.</p>
<p>Receiving Control Change messages</p>	
<p>The RC-500 can be controlled using Control Change messages from external MIDI devices.</p>	<p><b>Receiving Control Change messages</b></p> <p>You can use Control Change messages from an external MIDI device to control functions that would be difficult to control using the RC-500's own controllers. As the "ASSIGN" setting, set SOURCE to "CC#1–#31 or CC#64–#95," and as TARGET select the parameter that you want to control.</p>

## Connecting Two RC-500 Units

Two RC-500 units can be synchronized after connecting them together using a MIDI cable.

\* To make this connection, use a stereo mini-plug , stereo mini-plug cable.



Begin recording on the master RC-500 unit's tracks. The slave RC-500 unit starts in synchronization when the master RC-500 unit's track starts playing. Tracks for which TEMPO.S is ON will play at the memory tempo of the master unit. Tracks whose LOOP.S is ON will loop according to the first recorded phrase on the master RC-500.

### Troubleshooting

Problem	Items to Check	Action
Problems with sound		
	Is the RC-500 properly connected to other devices?	Check the connections to other devices.
	Is the power to the connected amp or mixer not turned on, or is the volume turned down?	Check the settings for connected devices.
	Are the connection cables shorted?	Try replacing the connection cable.

<b>No sound/low volume</b>	Could the [TRACK 1] slider, [TRACK 2] slider, or the [MIX LEVEL] knob be lowered?	Adjust sliders/knob to the suitable positions.
	Are the track 1 and 2 level set correctly?	Check the T1 LEVEL and T2 LEVEL settings.  Check whether an external expression pedal might have been used to adjust the level .
	Are the track 1 and 2 audio output destinations set correctly?	Check the T1 OUTPUT and T2 OUTPUT settings.
	Has anything been recorded to the tracks?	Check the TRACK 1, 2 [EDIT] button to see whether the track has been recorded. If the TRACK 1, 2 [EDIT] button is lit blue, nothing has been recorded.
<b>No rhythm sound</b>	Is RHYTHM LEVEL set correctly?	Check the RHYTHM LEVEL setting.
	Is the output destination of the rhythm sound set correctly?	In <a href="#">“Input/Output Settings”</a> check the RHYTHM setting.
<b>Sound is missing from the beginning and end of the recorded track</b>	To prevent noise, a fade-in and a fade-out are applied at the beginning and end of a recording. In some cases, it may sound as if some of the sound has been left out.	

<b>Unable to hear sounds from device connected to INST IN jacks/ MIC IN connector</b>		Could the [TRACK 1] slider, [TRACK 2] slider, or the [MIC LEVEL] knob be lowered?	Adjust sliders/knob to the suitable positions.
		Is the audio output destination set correctly?	In <a href="#">“Input/Output Settings”</a> check the MIC IN, INST IN, and RHYTHM settings.
<b>Problems with operation</b>			
<b>Memories not switching</b>	Is something other than the Play screen appearing in the display?		You cannot switch memories while any screen other than the Play screen is displayed. Press the [EXIT] button to return to the Play screen.
<b>Recording/overdubbing stops before finishing</b>	Is there insufficient memory remaining?		If memory is insufficient, clear any unneeded memories before recording or overdubbing.
	Is LOOP.S set to “ON” in the track?		When recording with Loop Sync set to ON, once the end of the longest track is reached, the RC-500 automatically switches to overdubbing.
	Is recording or overdubbing in progress?		You cannot change the memory tempo during recording or overdubbing. Change the tempo while the performance is stopped or being played back.

<b>Playback tempo not changing</b>	Is TEMPO.S set to “ON” in the track?	<p>When TEMPO.S is not set to ON in a track, the playback speed does not change even if the memory tempo is changed.</p> <p>To match the playback speed to the memory tempo, set the track’s TEMPO.S setting to “ON.”</p>
	Is the RC-500 synchronized via MIDI?	<p>If MIDI clock is being received via the MIDI IN connector or the USB port, the RC-500 will synchronize its tempo to MIDI clock.</p> <p>If you don’t want to synchronize with an external device, set SYNC to “INTERNAL.”</p>
<b>MIDI messages not being transmitted/received</b>	Could there be a short in the MIDI cable?	Try replacing the MIDI cable.
	Is the external MIDI device properly connected?	Check the connections to the external MIDI device.
	Are the MIDI channels matched to those of the external MIDI device?	Confirm that both devices are set to the same MIDI channels.
	If transmitting from the RC-500, have you made the necessary settings for transmission?	Check the TX CH (transmit channel) setting and the P C OUT (program change message transmit) on/off setting.
<b>Problems with USB</b>		

Unable to communicate with computer	Is the USB cable properly connected?	Check the connection.
	(If exchanging files via USB with your computer) Could “STORAGE” be OFF?	In the procedure “Backing-Up or Recovering Data,” set STORAGE to “PREPARING...”.
	Could you be editing a memory?	USB connection is not possible if there is an unsaved memory. Save the memory (p. 10), and then try USB connection again.

## Error Message List

	Message	Meaning	Action
	LOOPER		
	DATA DAMAGED	Data may have been damaged.	In the factory reset function, choose “SYS+MEM” to return the RC-500 to its factory settings.

	<b>DATA READ ERR</b>		
	<b>DATA WRITE ERR</b>	A problem has occurred with the content of the RC-500's memory.	Consult your Roland dealer or local Roland Service.
	<b>DATA TOO LONG</b>	Playback is not possible because the recording time or audio file is too long.	The recording time or audio file length must not exceed 1.5 hours.
	<b>DATA TOO SHORT</b>	Playback is not possible because the recording time or audio file is too short.	The recording time or audio file length must be at least 0.1 seconds.
	<b>EVENT FULL</b>	Further overdubbing is not possible.	Save the memory (p. 10).
	<b>MEMORY FULL</b>	The recorded time of one track exceeded 1.5 hours (approximately).	No further recording is possible on the current track.  Save the memory (p. 10). If you want to continue recording, select a different memory.

	<b>LL</b>	<p>The total recording time of all memories exceeded 13 hours (approximately).</p> <p>No further recording is possible.</p>	Clear unneeded memories.
	<b>NOT EMPTY</b>	You are attempting to overwrite-save onto a memory in which a phrase is already recorded.	Either clear the currently selected memory, or select an empty memory.
	<b>TEMPO TOO FAST</b>	Since the track is being played at a much faster tempo than when it was recorded, it might not play back correctly.	Adjust the tempo.
	<b>TEMPO TOO SLOW</b>	Since the track is being played at a much slower tempo than when it was recorded, it might not play back correctly.	
		<p>The RC-500 could not process the data completely.</p> <p><b>For “TOO BUSY OMSG”:</b></p>	<p>Lower the performance tempo.</p> <p>In the case of “TOO BUSY OMSG,” return to the tempo that was used during recording.</p>

<b>TOO BUSY</b>  <b>TOO BUSY OMSG</b>	<p>Since you attempted to apply the loop FX to a phrase that was set to a significantly slower tempo than when it was recorded, the data could not be processed quickly enough.</p>	<p>Save the current content to a memory.</p>
		<p>If this appears frequently, back up the data to your computer, then execute factory reset "SYS+MEM," and then recover the data.</p>
<b>UNDEFINED ERR</b>	<p>An error of unknown cause has occurred during recording, playback, or overdubbing.</p>	<p>Consult your Roland dealer or local Roland Service.</p>
<b>MIDI</b>		
<b>BUFFER FULL</b>	<p>An excessive volume of messages were received and could not be processed properly.</p>	<p>Reduce the number or size of MIDI messages transmitted to the RC-500.</p>
<b>OFFLINE</b>	<p>There is a problem with the MIDI cable connection.</p>	<p>Check to make sure the cable has not been disconnected and that there is no short in the cable.</p>

<b>Others</b>		
<b>BATTERY LOW</b>	The battery has run down.	Replace the batteries, or use an AC adaptor.
<b>BATTERY LOW!! STOP ALL</b>	<p>Because the battery has run down, the unit cannot function correctly.</p> <p>All operations of the RC-500 have stopped.</p>	
<b>MEMORY FULL</b>	This unit's memory is insufficient. If this message appears, recording or overdubbing might end mid-way.	Clear unneeded memories and then try recording again.
<b>STOP LOOPER</b>	The operation is not possible during recording, playback, or overdubbing.	Stop before performing the operation.
<b>STOP ALL</b>	The operation is not possible during recording, playback, overdubbing, or rhythm playback.	Stop all of these before performing the operation.

<b>STOP ALL&amp;SAVE</b>	The operation is not possible during recording, playback, overdubbing, or rhythm playback when there is also unsaved data.	Stop all of these, and then save the memory.
<b>UNSUPPORTED FILE</b>	This audio file is unplayable.	Check the format of the audio file.

## Restoring the Factory Default Settings (Factory Reset)

Not only can you return all of the settings to the values in effect when the RC-500 was shipped from the factory, you can also specify the items to be reset.

\* When you execute "Factory Reset," the settings you made will be lost. In advance, back up important data to your computer.

### 1. Press the [MENU] button.

The SETUP screen appears.



### 2. Turn the [MEMORY/VALUE] knob to select "F.RESET," and press the [MEMORY/VALUE] knob.



### 3. Turn the [MEMORY/VALUE] knob to specify the settings that will be returned to their factory set state, and press the [MEMORY/VALUE] knob.

Value	Explanation
<b>MEMORY</b>	Memory 1–99
<b>SYSTEM</b>	System settings
<b>MEM+SYS</b>	Memory 1–99 and system settings

A confirmation message “ARE YOU OK?” appears.

\* Do not turn off the power while the “EXECUTING...” message is shown.

4. Once the factory reset is complete, you are returned to the Play screen.

\* Do not turn off the power while the “EXECUTING...”

message is shown. Once the factory reset is complete, you are returned to the Play screen.

## Main Specifications

<b>Sampling Frequency</b>	44.1 kHz
<b>AD/DA Conversion</b>	32 bits
<b>Processing</b>	32-bit floating point
<b>Recording/Playback</b>	Number of Tracks: 2 Data Format: WAV (44.1 kHz, 32-bit float, stereo) Approx. 1.5 hours (1 track), Approx.13 hours (total of all memories)
<b>Rhythm Type</b>	57 Patterns x 2 Variations
<b>Rhythm Kit</b>	16 types

<b>Effect</b>	LOOP FX (only for loop tracks) Type: BEAT REPEAT, BEAT SHIFT, BEAT SCATTER, VINYL FLICK
	Reverb (only for rhythm part)
<b>Memory</b>	99
<b>Nominal Input Level</b>	MIC IN:-40 dBu (variable) INST IN A/MONO, B: -10 dBu
<b>Maximum Input Level</b>	MIC IN:+8 dBu INST IN A/MONO, B: +8 dBu
<b>Input Impedance</b>	MIC IN: 4 k $\Omega$ INST IN A/MONO, B: 1 M $\Omega$
<b>Nominal Output Level</b>	OUTPUT A/MONO, B: -10 dBu
<b>Maximum Output Level</b>	OUTPUT A/MONO, B: +8 dBu
<b>Output Impedance</b>	OUTPUT A/MONO, B: 1 k $\Omega$
<b>Recommended Load Impedance</b>	OUTPUT A/MONO, B: 10 k $\Omega$ or greater

<b>Bypass</b>	Buffered bypass	
<b>Display</b>	Graphic LCD (96 x 32 dots, RGB backlit LCD)	
<b>Connectors</b>	<p>INST IN A/MONO, B jacks: 1/4-inch phone type</p> <p>MIC IN jack: XLR type (balanced, phantom power: DC 48 V, 10 mA Max OUTPUT A/MONO, B jacks: 1/4-inch phone type</p> <p>CTL 1,2/EXP jack: 1/4-inch TRS phone type USB port: USB micro B type</p> <p>MIDI (IN, OUT) jacks: stereo miniature type</p> <p>DC IN jack</p>	
<b>Power Supply</b>	<p>Alkaline battery (AA, LR6) x 4</p> <p>AC adaptor (PSA series: sold separately)</p>	
<b>Current Draw</b>	<p>330 mA (with phantom power)</p> <p>240 mA (without phantom power)</p>	
<b>Expected battery life under continuous use</b>	<p>* These figures will vary depending on the actual conditions of use.</p> <p>Alkaline: Approx. 3.5 hours (without phantom power), Approx. 2 hours (with phantom power)</p>	
<b>Dimensions</b>	<p>(excluding rubber foot)</p> <p>170 (W) x 138 (D) x 60 (H) mm</p> <p>6-3/4 (W) x 5-7/16 (D) x 2-3/8 (H) inches</p>	<p>(including rubber foot)</p> <p>170 (W) x 138 (D) x 62 (H) mm</p> <p>6-3/4 (W) x 5-7/16 (D) x 2-1/2 (H) inches</p>

<b>Weight (including battery)</b>	950 g 2.1 lbs
<b>Accessories</b>	Owner's Manual, Leaflet "USING THE UNIT SAFELY," AC adaptor, Rubber foot x 4
<b>Options (sold separately)</b>	AC adaptor: PSA-S series Footswitch: FS-5U Dual Footswitch: FS-6, FS-7 Expression Pedal: FV-500H, FV-500L, EV-30, Roland EV-5 TRS/MIDI connecting cable: BMIDI-5-35

- dBu = 0.775 Vrms
- This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

## USING THE UNIT SAFELY



### CAUTION

**Keep small items out of the reach of children**



To prevent accidental ingestion of the parts listed below, always keep them out of the reach of small children.

- Included Parts  
Rubber feet.



### CAUTION

#### **Precautions concerning use of phantom power supply**

Always turn the phantom power off when connecting any device other than condenser microphones that require phantom power. You risk causing damage if you mistakenly supply phantom power to dynamic microphones, audio playback devices, or other devices that don't require such power. Be sure to check the specifications of any microphone you intend to use by referring to the manual that came with it. (This instrument's phantom power: 48 V DC, 10 mA Max)

## IMPORTANT NOTES

### **Power Supply: Use of Batteries**

- Batteries should always be installed or replaced before connecting any other devices. This way, you can

prevent malfunction and damage.

- If operating this unit on batteries, please use alkaline batteries.
- Even if batteries are installed, the unit will turn off if you connect or disconnect the power cord from the AC outlet while the unit is turned on, or if you connect or disconnect the AC adaptor from the unit. When this occurs, unsaved data may be lost. You must turn off the power before you connect or disconnect the power cord or AC adaptor.


## Repairs and Data

- Before sending the unit away for repairs, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information. Although we will do our utmost to preserve the data stored in your unit when we carry out repairs, in some cases, such as when the memory section is physically damaged, restoration of the stored content may be impossible. Roland assumes no liability concerning the restoration of any stored content that has been lost.

## Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.
- Never strike or apply strong pressure to the display.
- When disposing of the packing carton or cushioning material in which this unit was packed, you must observe the waste disposal regulations that apply to your locality.
- Do not use connection cables that contain a built-in resistor.

## Documents / Resources

	<p><a href="#">Boss Loop Station</a> [pdf] Owner's Manual Loop Station, RC-500</p>
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