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RC-3 Loop Station

Owner's Manual

* **This device contains demo phrases (90–99). Once you delete these, they cannot be recovered. Please back them up as described in "Backing up to your computer" (p. 14).**

* **This device will enter Sleep mode (power conservation mode) when ten hours have elapsed since the last operation, or since the last audio input while in Stop mode.**
If you want to prevent the device from entering Sleep mode, hold down the pedal while you turn on the power, and continue holding down it down for five seconds (p. 18).

Loop Station   RC-3
STOP : PRESS TWICE

[BOSS]

Main Features

Welcome to the Loop Station!

The RC-3 is a pedal-type recorder that lets you record audio phrases from your guitar or bass, and play them back by operating the pedal. You can create a wide variety of performances by layering sound while you record and carry out play back in real time.

- It's easy to create loop phrases.
- Up to 99 different loop phrases can be saved in phrase memory, for a total of approximately 3 hours (* total for all phrases).
- You can input audio in stereo.
- Sound from a digital audio player connected to the AUX IN jack can easily be recorded.
- Recorded phrases can be copied via USB to your computer, or WAV files from your computer can be loaded into the RC-3 and played back as loops (p. 14).

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (supplied on a separate sheet). These sections provide important information concerning the proper operation of the unit.

Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

Panel Descriptions

1. [OUTPUT LOOP] knob

This adjusts the volume level of the loop phrase being played back.

*   **This knob does not adjust the input level of the INPUT and AUX IN jacks.**

2. [OUTPUT RHYTHM] knob

This adjusts the volume level of the rhythm sound (p. 12).

3. REC, PLAY (DUB) indicator

This lights during recording, playback, and overdubbing.

Indicator	Explanation
REC (red)	During recording
PLAY (green)	During playback (while loading phrase memory, or during an internal memory operation: blinks rapidly)
Both	During overdubbing

4. Display

This indicates the current phrase memory number, or various other information (p. 20).

5. [▼] (DOWN) / [▲] (UP) buttons

These decrement or increment the number shown in the display.

6. [WRITE] button

Press this to save the recorded phrase to internal memory (p. 8).

7. [RHYTHM ON/OFF] button

This button turns the rhythm sound on/off (p. 12).

8. [TAP TEMPO] button

Press this button at the desired timing to set the tempo (p. 12).

9. Pedal Switch

This pedal switches you between phrase recording, overdubbing, and playback. Press the pedal twice in succession to stop playback (p. 6).

10. Thumbscrew

When this screw is loosened, the pedal will open, allowing you to change the battery.

* **If you're using the RC-3 only on a battery, the display will indicate "$b\ t$" when the battery runs low. Replace the battery as described on p. 22.**

* **A battery was installed in the unit before it left the factory. The life of this battery may be limited, however, since its primary purpose was to enable testing.**

USB connector

You can use a commercially available USB cable to connect the RC-3 to your computer, and use the computer to read/write RC-3 phrases (WAV files) (p. 14).

DC IN jack

Accepts connection of an AC Adaptor (PSA series; optional). By using an AC Adaptor, you can play without being concerned about how much battery power you have left.

> * **Use only the specified AC adaptor (PSA series), and connect it to an AC outlet of the correct voltage. Do not use any other AC adaptor, since this may cause malfunction.**

AUX IN jack

Use a stereo mini-plug cable to connect your audio player here.

By using the **Auto recording function** (p. 11), you can start recording the moment your audio player begins playback.

OUTPUT A/B jacks

Connect these jacks to your amp or monitor speakers.

If your system is monaural, use only the OUTPUT A jack. Sound that was input in stereo will also be output monaurally.

The OUTPUT A jack also operates as a power switch. The power will be on if a plug is inserted in the OUTPUT A jack. Remove the plug when you're not using the RC-3.

STOP/MEMORY SHIFT jack

You can connect a separately available foot switch (FS-5U, FS-6) here, and use it to stop playback or to switch phrases (p. 16).

INPUT A/B jacks

Connect your guitar, bass, or effects unit to these jacks.

Use the INPUT A jack and INPUT B jack when connecting a stereo-output effects unit. Use only the INPUT A jack if you're using a monaural source.

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NOTE

* To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

* Before connecting or disconnecting any connection cables, be sure all the volume controls in your system are set to minimum.

* Use connection cables that do not contain a built-in resistor. If you use cables that contain a resistor, there might be insufficient volume from the device connected to the AUX IN jacks, or it might be inaudible.

* Do not connect headphones to the OUTPUT jack. Doing so may damage the headphones.

Turning On the Power

Inserting a connecting plug into the OUTPUT A jack turns on the power to the unit.

Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

| When powering up | **Turn on** the power to your guitar amp **last**. |
| When powering down | **Turn off** the power to your guitar amp **first**. |

* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

Caution when turning off the power

While the RC-3 is in the following states, you must never turn off the power (i.e., disconnect the plug from the OUTPUT A jack).
Doing so may cause all the saved data to be lost.

- **While the REC or PLAY indicator is lit**
  (during recording/playback/overdubbing)

- **While the PLAY indicator is blinking rapidly**
  (while phrase memory is being read, or an internal memory operation is occurring)

Basic Operation

To perform recording, overdubbing, and playback, press the pedal as shown in the diagram.

Selecting a Phrase Memory

Use the [▼] / [▲] buttons to select a phrase memory (1–99).

Display	Explanation
Only number displayed	**Empty phrase**
	Press pedal to start recording
Dot in lower right	**Phrase containing data**
	Press pedal to start loop playback
Number and "ο5" displayed alternately	**One-shot phrase**
	Press pedal to play phrase only once (not loop)

• When shipped from the factory, phrases 90–99 contain demo phrases.

REC PLAY / DUB — Recording

Record your guitar or bass performance, or the sound from an audio player connected to the AUX IN jack.

• **Auto recording** (p. 11) lets you start recording the moment you begin performing.

• You can also record along with **rhythm sounds** (p. 12).

"Recording" versus "Overdubbing"

In this manual, we refer to the act of recording to an empty phrase 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 "overdubbing."

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REC PLAY

DUB

Overdubbing

Layer your performances while the phrase plays as a loop.

Pressing the pedal switches the unit to playback.

• You can **Undo** and **Redo** (p. 10).

REC PLAY

DUB

Loop Playback

Play back phrases as loops.

Pressing the pedal switches the unit to overdubbing.

• To use the **Memory Shift** function, press the [▼] / [▲] buttons while a phrase is playing; the phrase memory number will blink, allowing you to select the next phrase (p. 17).

Press twice

REC PLAY

DUB

Stop

During overdubbing or loop playback, you can stop by pressing the pedal twice in succession.

• Press the pedal twice within one second.

Basic Operation

NOTE

* While phrase memory is being read, the PLAY (green) indicator will blink rapidly. Never turn off the power while the PLAY indicator is blinking rapidly.

* The minimum recording time for a loop phrase is approximately 1.5 seconds. If you press the pedal within approximately 1.5 seconds after you start recording, recording will continue until the phrase is at least approximately 1.5 seconds long.

* The maximum recording time for a loop phrase is approximately 3 hours (total for all phrases). When the maximum recording time is exceeded, the display will show "FL" to indicate that internal memory is full, and recording or overdubbing may end before you intended. If this occurs, delete unneeded phrases (p. 9) and then try the operation again.

* If you use the Memory Shift function before saving a phrase, that phrase will be erased. For details on how to save a phrase, refer to p. 8.

Saving a Phrase

If you select a different phrase memory or turn off the power after recording or overdubbing, the phrase you recorded will be lost. If you want to keep the phrase, you must save it.

1. **While playback is stopped, press the [WRITE] button.**
   The display will indicate "Wr" (wr).

2. **Use the [▼] / [▲] buttons to specify the save-destination phrase memory.**
   You can skip this step if you want to save to the currently selected phrase.

   You can't select a phrase memory in which a phrase has already been saved.

   The maximum recording time is a total of approximately 3 hours for all phrases (including the phrase that has not been saved). If the phrase cannot be saved because there is insufficient free memory, the display will indicate "FL" alternately with the phrase memory number. In this case, delete unneeded phrases (p. 9) and then try the operation again.

3. **Press the [WRITE] button once again; the phrase will be saved.**
   If you decide not to save the phrase, press the [TAP TEMPO] button, the [RHYTHM ON/OFF] button, or the pedal.

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While the phrase is being saved, the number in the display and the PLAY indicator will blink rapidly.

NOTE

* **Never turn off the power while the PLAY indicator is blinking rapidly. This may cause all saved data to be lost.**

* **Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction or improper operation of the unit. You should back up important data as described in "Backing up to your computer" (p. 14).**

* **All due care is taken during repairs to avoid the loss of data. However, in certain cases, such as when there is damage to the memory, it may not be possible to restore the data.**

* **Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory once it has been lost. Roland Corporation assumes no liability concerning such loss of data.**

Deleting a Phrase

* **This device contains demo phrases (90–99). Once you delete these, they cannot be recovered. Please back them up as described in "Backing up to your computer" (p. 14).**

1. **Use the [▼] / [▲] buttons to select the phrase memory that you want to delete.**

2. **While playback is stopped, hold down the [WRITE] button for at least two seconds.**
   The display will indicate "dL."

* **At this point, you can't change the phrase memory number that will be deleted.**

3. **Press the [WRITE] button to delete the phrase.**
   If you decide not to delete the phrase, press the [TAP TEMPO] button, the [RHYTHM ON/OFF] button, or the pedal.

   While the phrase is being deleted, the number in the display and the PLAY indicator will blink rapidly.

* **Never turn off the power while the PLAY indicator is blinking rapidly. This may cause all saved data to be lost.**

Saving a Phrase for One-Shot Playback

One-shot playback will play the phrase once from the beginning to the end, and then stop automatically.

1. **Hold down the [TAP TEMPO] button and press the [WRITE] button.**

   The display will indicate "*o5*."

2. **Use the [▼] / [▲] buttons to specify the save-destination phrase memory.**

3. **Press the [WRITE] button once again; the phrase will be saved as a one-shot phrase.**

   If you decide not to save the phrase, press the [TAP TEMPO] button, the [RHYTHM ON/OFF] button, or the pedal.

   * **Overdubbing is disabled when one-shot playback is in effect. If the pedal is pressed during playback of the phrase, the phrase starts playing from the beginning again (retrigger playback).**

   * **You need to save the phrase over again in order to cancel one-shot playback (return to loop playback). (p. 8)**

   * **If you want to stop a One-Shot phrase while it is playing back, press the pedal twice within a period of 0.5 seconds.**

Cancelling an Overdub (Undo/Redo/Clear)

You can undo/redo/clear by holding down the pedal for at least two seconds.

Operation	Display	Explanation
Undo	*Un*	Hold down the pedal for at least two seconds during playback or overdubbing; the recording or the most recent overdubbing will be cancelled.
Redo	*rE*	If you want to restore the cancelled sound, hold down the pedal for at least two seconds while playback once again.
		* **Redo is only available for overdubbing.**
Clear	*CL*	Hold down the pedal for at least two seconds while stopped; the current phrase will be cleared. (Clear is temporary; phrases saved in phrase memory will not be deleted.)

During Undo/Redo, the PLAY and REC indicators will blink rapidly. During Clear, the PLAY indicator will blink rapidly.

Auto Recording/Count-In Recording Functions

"Auto recording" starts recording the moment you begin playing your guitar or play back your audio player. "Count-in" sounds the rhythm for one measure before recording starts.

1. **Hold down the [TAP TEMPO] button for at least two seconds.**

   The display will indicate "*no*."

2. **Use the [▼] / [▲] buttons to select the desired recording mode, and then press the pedal to start recording.**

Display	Mode	Explanation
no	**Normal recording**	Recording will begin the instant you press the pedal.
AU	**Auto recording**	The REC indicator will blink rapidly, and the RC-3 will enter recording-standby mode. When you begin playing, the REC indicator will light and recording will start.

Display	Mode	Explanation
CE	**Count-in recording**	The [RHYTHM ON/OFF] button will blink. When you press the pedal, the REC indicator will blink rapidly, and the rhythm will sound for one measure. (You can stop by pressing the pedal during this time.) When the one measure of playback has ended, recording will start. (The rhythm will continue sounding even after recording has begun.) For more about the rhythm settings, refer to "About Rhythm" (p. 12).

The recording mode will be reset to Normal recording when you turn off the power.

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About Rhythm

Sounding a Rhythm

1. **Press the [RHYTHM ON/OFF] button to switch the rhythm sound between playing and stopped.**
- Use the [OUTPUT RHYTHM] knob to adjust the volume of the rhythm.
- The [TAP TEMPO] button will blink in time with the rhythm (red on the first beat, green on subsequent beats).
- When you save a phrase (p. 8), the rhythm type and time signature selected at that time will also be saved.

Setting the Tempo

When recording, you can set the tempo before you start recording. When playing back a saved phrase, you can change the playback tempo without changing the pitch of the phrase.

1. **Use the [▼] / [▲] buttons to select the phrase memory whose tempo you want to set.**
2. **Press the [TAP TEMPO] button several times at the desired tempo.**
   The tempo will be set to the interval at which you press the button.
- If the RC-3 is stopped, the rhythm ([RHYTHM ON/OFF] button) will turn on after you set the tempo.

* You can only change the tempo of phrases that have been saved in phrase memory. If you want to change the tempo of a phrase immediately after recording or overdubbing, you must first save it to phrase memory (p. 8).
* There are limitations on the proportion of the possible tempo change.
* You can't specify a tempo that would cause the phrase to loop in a shorter time than the minimum recording time (approximately 1.5 seconds).
   The tempo setting is stored when you save the phrase (p. 8).

Setting the Rhythm Type

1. **Hold down the [RHYTHM ON/OFF] button for at least two seconds.**
   The display will indicate "г 0" – "г 9"; the RC-3 is now in rhythm type selection mode.
2. **Use the [▼] / [▲] buttons to select the desired rhythm type (г 0–г 9).**
3. **Press the [RHYTHM ON/OFF] button to return to normal operation.**

Rhythm Type List	
г 0	Hi-Hat
г 1	Kick & Hi-Hat
г 2	Rock 1
г 3	Rock 2
г 4	Pop
г 5	Funk
г 6	Shuffle
г 7	R & B
г 8	Latin
г 9	Percussion

Setting the Time Signature

You can set the time signature before you start recording.

* **You can't change the time signature after recording.**

1. **Hold down the [RHYTHM ON/OFF] button for at least two seconds.**

   The display will indicate "$r\ 0$" – "$r\ 9$"; the RC-3 is now in rhythm type selection mode.

2. **While in rhythm type selection mode, hold down the [RHYTHM ON/OFF] button once again for at least two seconds.**

   The display will indicate "$b\ 4$" or "$b\ 3$"; the RC-3 is now in time signature selection mode.

Display	Explanation
$b\ 4$	4/4 beat (default)
$b\ 3$	3/4 beat

3. **Use the [▼] / [▲] buttons to select the desired time signature.**

4. **Press the [RHYTHM ON/OFF] button to return to normal operation.**

Recording with the rhythm sound

If you record while the rhythm sound is on, **recording will start from the beginning of the measure the instant you press the pedal to initiate recording.**

By using the "Count-in recording" function (p. 11), you can start recording after the rhythm sound has played back for one measure.

Regardless of the timing at which you press the pedal to end recording, the length of the phrase will automatically be adjusted to units of one measure.

Recording without the rhythm sound

If you record while the rhythm sound is off, the tempo of the phrase will be automatically specified after recording has ended.

The automatic tempo setting is calculated by assuming that you have recorded "1, 2, 4, 8, 16, ... measures in the specified time signature (p. 13)."

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Connecting to Your Computer via USB

You can connect the RC-3 to your computer via a commercially available USB cable, and back up RC-3 phrases (WAV files) to your computer or load WAV files from your computer to the RC-3.

Playable WAV file formats

Data Format	WAV
Bit Rate	16-bit linear, stereo
Sampling Frequency	44.1 kHz

Maximum WAV file size is 1.7 GB (total of all files), maximum time is approximately 3 hours (total of all phrases), and minimum time is approximately 1.5 seconds.

1. **Turn on the RC-3's power (insert a plug into the OUTPUT A jack).**

   * **The RC-3 will not operate on USB bus power. We recommend that you use an AC adaptor (sold separately) to ensure that the power does not turn off while connected via USB.**

2. **Use a commercially available USB cable to connect the RC-3's USB connector to your computer's USB connector (a connector that supports USB 2.0 Hi-Speed).**
   The display will indicate "⌐ ⌐."

   * **You can't make USB connections if the RC-3 is not stopped, or if there is a phrase that has not been saved.**

3. **Back up the phrases as described below.**

   Windows users

   Within My Computer (or Computer), open **"BOSS_RC-3"** (or Removable Disk).

   Mac OS users

   On the desktop, open the **"BOSS_RC-3"** icon.

Backing up to your computer

Copy the entire **"ROLAND"** folder from the BOSS_RC-3 drive to your computer.

Recovering backed-up data from your computer to the RC-3

* <u>Performing this operation will erase all phrases that are currently saved in the RC-3. Be sure to make a backup before you proceed.</u>

   In the BOSS_RC-3 drive, delete the **"ROLAND"** folder, and then copy the backed-up **"ROLAND"** folder from your computer to the BOSS_RC-3 drive.

Writing individual WAV files from your computer to the RC-3's phrase memory

You can copy WAV files from your computer to the **"001_1"–"099_1"** folders within the **"ROLAND"–"WAVE"** folder in the BOSS_RC-3 drive. (The **XX** in **"0XX_1"** is the phrase memory number.)

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NOTE

* **Do not delete the folders inside the BOSS_RC-3 drive unless you are performing a recovery operation.**

* **You can use the following characters in file names.**
  A–Z (uppercase letters), 0–9 (numerals), _ (underscore)

* **Do not place more than one WAV file in any folder. If a folder already contains a WAV file, do not overwrite it. Write your WAV files into empty folders.**

4. **When you've finished copying WAV files, disconnect the USB drive as follows.**

   Windows 7 users

   In the lower right of your screen, click the [▲] icon → [🔌] icon, and then click "Eject RC-3."

   Windows Vista/Windows XP users

   In the lower right of your screen, click the [🔌] icon ([🔌] in XP) and then click "Safely remove USB Mass Storage Device."

   Mac OS users

   Drag the "BOSS_RC-3" icon to the trash ("Eject" icon).

5. **Disconnect the USB cable from your computer.**
   When you have disconnected the USB cable, the display will indicate "*d C*" and the [RHYTHM ON/OFF] button will blink.

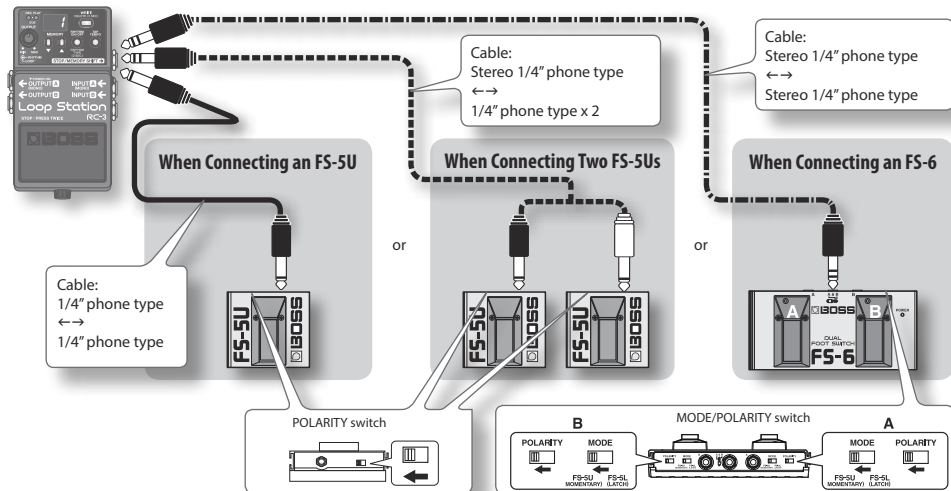6. **Press the [RHYTHM ON/OFF] button to return to normal operation.**
   The "*d C*" indication will disappear from the display, and the RC-3 will return to normal operation.

NOTE

* **Never use your computer to format the "BOSS_RC-3" drive. Doing so will cause the RC-3 to stop operating correctly.** **If this occurs, executing the format using the procedure described in "Formatting the Internal Memory" (p. 19).**

* **Never perform the following actions until you have disconnected the USB drive. Doing so might make your computer freeze, or might result in the loss of all of the RC-3's data.**

  • Disconnect the USB cable.

  • Allow your computer to enter suspend (standby) or hibernate mode, restart it, or shut it down.

  • Turn off the RC-3's power.

* **Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory once it has been lost. Roland Corporation assumes no liability concerning such loss of data.**

Connecting to an External Footswitch

Connect your foot switch to the STOP/MEMORY SHIFT jack as shown in the illustration, and set its POLARITY switch.

When Connecting an FS-5U

Cable:
1/4" phone type
←→
1/4" phone type

When Connecting Two FS-5Us

or

Cable:
Stereo 1/4" phone type
←→
1/4" phone type x 2

When Connecting an FS-6

or

Cable:
Stereo 1/4" phone type
←→
Stereo 1/4" phone type

POLARITY switch

MODE/POLARITY switch

When Connecting an FS-5U

* **The FS-5L cannot be used.**

Operation	Explanation
Stop	While recording/playing/overdubbing, press the foot switch to stop.
Tempo setting	While stopped, you can press the foot switch several times to set the tempo.
Clear phrase	To clear the phrase, hold down the foot switch for at least two seconds (p. 10).

When Connecting Two FS-5Us or an FS-6

When you operate an FS-5U connected to the white plug (stereo L side) or pedal B of an FS-6

The operation will be the same as when a single FS-5U is connected.

When you operate an FS-5U connected to the red plug (stereo R side) or pedal A of an FS-6

Operation	Explanation
Memory shift (up)	When you press the foot switch, the next-numbered phrase memory will be selected.
	If you press the foot switch during playback, the newly selected phrase memory number will blink in the display, and the phrase memory will be changed when the currently playing phrase has ended.
Memory shift (down)	When you hold down the foot switch for at least two seconds, the previous-numbered phrase memory will be selected.

* **If the current phrase has not been saved, that phrase will be lost when you perform the memory shift. For details on how to save a phrase, refer to p. 8.**

- If you perform the memory shift operation near the end of the phrase, there may be cases in which the shift-destination phrase memory will not be selected.

- You can also perform memory shift operations by pressing the [▼] / [▲] buttons.

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Other Settings

About Sleep Mode

When ten hours have elapsed since the last operation or audio input, the RC-3 will enter sleep mode (power conservation mode; only the bypass sound will be output). From sleep mode, you can press the pedal to return to normal mode.

* Battery power continues to be consumed even in sleep mode. To prevent battery consumption, turn off the power by removing the plug from the OUTPUT A jack.

* The RC-3 will not enter sleep mode if there is a phrase that has not been saved.

Disabling Sleep Mode

1. **While holding down the pedal, turn on the power (insert a plug into the OUTPUT A jack).**
2. **Continue holding down the pedal for five seconds.**
   The display will blink "_ _."
3. **Release the pedal; the RC-3 will resume normal operation.**

Enabling Sleep Mode (default setting)

1. **While holding down the pedal, turn on the power (insert a plug into the OUTPUT A jack).**
2. **Within two seconds after the display appears, step on the pedal two more times.**
   The display will blink "5L."

   After two seconds, the RC-3 will resume normal operation; sleep mode will be enabled.

Changing the Switching Order of Recording → Overdubbing → Playback

When you press the pedal, the RC-3 will switch its operation in the order of **recording → overdubbing → playback** (default setting) (p. 6). However, you can change this so that the order is **recording → playback → overdubbing** (RC-2 compatible).

1. **While holding down the [TAP TEMPO] button, turn on the power (insert a plug into the OUTPUT A jack).**

2. **Use the [▼] / [▲] buttons to select the desired mode.**

Display	Explanation
$r\,d$	Operation will switch in the order of **Recording → Overdubbing → Playback** (default setting).
$r\,P$	Operation will switch in the order of **Recording → Playback → Overdubbing** (RC-2 compatible).

3. **Press the [TAP TEMPO] button to return to normal operation.**

Formatting the Internal Memory

* **When you format the RC-3's internal memory, all phrase memories that were saved will be erased, and cannot be recovered.**
  Do not format the internal memory unless the display indicates "$E\,r$" and the RC-3 has stopped operating correctly.

1. **While holding down the [WRITE] button and the [RHYTHM ON/OFF] button, turn on the power (insert a plug into the OUTPUT A jack).**
   The display will indicate "$F\,\Pi$."

2. **Press the [RHYTHM ON/OFF] button once again.**
   The display will blink "$F\,\Pi$."

3. **Press the [WRITE] button; formatting of the internal memory will begin.**
   The indication "$F\,\Pi$" in the display will blink rapidly. When formatting is completed, the RC-3 will return to normal operation.

   * **Never turn off the power while "$F\,\Pi$" is blinking rapidly.**

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Troubleshooting

Problem	Action
Recording does not end immediately when you press the pedal	If rhythm is on, or if you recorded a phrase that is shorter than the minimum recording time (approximately 1.5 seconds), the length of the phrase is adjusted automatically; this may mean that recording does not end immediately when you press the pedal.
Recording started immediately even though Auto recording mode is selected	If due to distortion or other causes there is a significant amount of noise, that noise may be enough to trigger the beginning of recording. Reduce the noise, for example by lowering the distortion level.
Cannot change the playback tempo	You cannot change the playback tempo in the following situations. • If the phrase has not been saved. • While phrases are being switched (PLAY indicator blinking rapidly). • When you attempt to set the tempo for a phrase that is looped over an interval shorter than the minimum recording time (approximately 1.5 seconds).

Error Message List

Display	Meaning	Action	Page
bt	**The battery has run low.**	Replace the battery.	p. 22
FL	**Memory is full.**	Delete unneeded phrases.	p. 9
UF	**This WAV file is unplayable.**	Check the format of the WAV file.	p. 14
EF	**Further overdubbing is not possible.**	Re-save the phrase.	p. 8
Er	**Internal memory must be formatted.**	Format the RC-3's internal memory.	p. 19
$d\Pi$	**The RC-3 has malfunctioned.**	Contact your dealer.	

Other Display Indications

Display	Explanation	Page
1-99	Phrase memory number	p. 6
. (dot)	Phrase memory containing data	
o5	One-shot phrase	p. 10
Un	Undo	
rE	Redo	p. 10
CL	Clear	
8r	Save phrase	p. 8
dL	Delete phrase	p. 9
no	Normal recording	
AU	Auto recording	p. 11
Ct	Count-in recording	
r0-r9	Rhythm type	p. 12
b3-b4	Time signature	p. 13
Cn	USB connected	p. 14
dC	USB disconnected	

Display	Explanation	Page
SL	Sleep mode enabled	p. 18
_ _	Sleep mode disabled	
rd	Switch in the order of record/overdub/play	p. 19
rP	Switch in the order of record/play/overdub	
Fn	Format internal memory	p. 19

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Changing the Battery

If the display indicates "*bt*," the battery has run low. Replace the battery as described below.

* **The use of an AC adaptor is recommended as the unit's power consumption is relatively high. Should you prefer to use batteries, please use the alkaline type.**

* **The contents of internal memory will not be lost when you replace the battery, but we recommend that you make regular backups (p. 14) for safety's sake.**

Thumbscrew — Pedal

Spring Base

Battery Snap Cord — Coil Spring

Guide Bush Hole

+ —

Battery Snap

Battery Housing
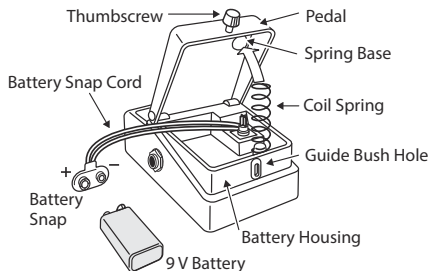
9 V Battery

* **Incorrect handling of batteries, rechargeable batteries, or a battery charger can cause leakage, overheating, fire, or explosion. Before use, you must read and strictly observe all of the precautions that accompany the batteries, rechargeable batteries, or battery charger.**

1. **Loosen the thumbscrew at the front of the pedal, then lift the pedal upwards to open the unit.**
   * **The thumbscrew can be left in the pedal while changing the battery.**

2. **Remove the old battery from the battery housing, and remove the battery snap connected to it.**

3. **Connect the battery snap to the new battery, and place the battery inside the battery housing.**
   * **Be sure to carefully observe the battery's polarity (+ versus -).**

4. **Slip the coil spring onto the spring base on the back of the pedal, then close the pedal.**
   * **Carefully avoid getting the snap cord caught in the coil spring.**

5. **Finally, insert the thumbscrew into the guide bush hole and fasten it securely.**

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Nominal Input Level	INPUT: -20 dBu AUX IN: -10 dBu
Input Impedance	INPUT: 1 MΩ AUX IN: 22 kΩ
Nominal Output Level	-20 dBu
Output Impedance	1 kΩ
Recommended Load Impedance	10 kΩ or larger
Recording/Playback	Maximum recording time: Approx. 3 hours Maximum number of stored phrases: 99 phrases Data format: WAV (44.1 kHz, 16-bit linear, stereo)
USB Interface	USB 2.0/1.1 mass storage device class
Power Supply	DC 9 V: Alkaline battery (9 V, 6LR61), AC Adaptor (PSA-series: sold separately)
Current Draw	Maximum 70 mA (DC 9 V)
	Alkaline battery (9 V, 6LR61) : Approx. 3 hours
	* These figures will vary depending on the actual conditions of use.
Dimensions	73 (W) x 129 (D) x 59 (H) mm 2-7/8 (W) x 5-1/8 (D) x 2-3/8 (H) inches
Weight	450 g/1 lb (including battery)

Accessories	Owner's Manual, Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTES," and "Information"), Alkaline battery (9 V, 6LR61): already installed in unit
	* The battery that was supplied with the unit is for temporary use, intended primarily for testing the unit's operation. We suggest replacing this with an alkaline dry cell.
Options (sold separately)	AC Adaptor (PSA series) Foot Switch: FS-5U, FS-6

* 0 dBu= 0.775 Vrms

* **In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.**