Introduction

The JX-03 is a sound module that can be used in conjunction with the K-25m keyboard unit (sold separately). The sound can be heard through the built-in speakers.

* The JX-03 can operate on batteries or on USB bus power. If you are using batteries, insert four AA batteries, making sure that the batteries are oriented correctly.
* 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.
* **When the batteries run low, the LED above the Ribbon Controller C1 (❷) blinks.** Install new batteries.

Using the JX-03 in conjunction with the K-25m keyboard unit (sold separately)

➡ For installation, refer to the K-25m's Owner's Manual.

Playing the JX-03 via MIDI or USB

You can also play the JX-03 via MIDI or USB. For details, refer to "Connecting Your Equipment."

Connecting Your Equipment

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

Ⓐ Micro USB (⬩←⬩) port
Use a commercially available USB 2.0 cable (A-microB) to connect this port to your computer. It can be used to transfer USB MIDI and USB audio data. **You must install the USB driver when connecting the JX-03 to your computer.** Download the USB driver from the Roland website. For details, refer to Readme.htm which is included in the download.
➡ http://www.roland.com/support/

Ⓑ [VOLUME] knob
Adjusts the volume.

Ⓒ PHONES jack
Connect headphones (sold separately) here.

Ⓓ OUTPUT jack
Connect this jack to your amp or monitor speakers.

Ⓔ INPUT jack
This is the audio input jack. Sound from the connected device is output from the OUTPUT jack and PHONES jack.

Ⓕ MIDI connectors
You can play the JX-03 by connecting a MIDI device via a commercially available MIDI cable.

MIDI OUT → MIDI IN
MIDI keyboard → JX-03

Turning the Power On

Ⓖ [POWER] switch
This turns the power on/off.
* After you've made connections correctly, be sure to **turn on the power in the order of the JX-03 first, and then the connected system**. Powering-on in the incorrect order may cause malfunctions or damage. When turning the power off, **power-off the connected system first, and then the JX-03**.
* This unit is equipped with a protection circuit. A brief interval (a few seconds) after turning the unit on is required before it will operate normally.
* 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.

Restoring the Factory Settings (Factory Reset)

Here's how to return the JX-03 to its factory-set state.
1. While holding down the PATCH [1] button, turn on the power.
   The [MANUAL] button blinks.
   If you decide to cancel the factory reset, turn off the power.
2. Press the [MANUAL] button to execute the factory reset.
3. When all buttons blink, turn the JX-03's power off, then on again.

Data Backup/Restore

Backup
1. While holding down the PATCH [2] button, turn on the power.
2. Connect your computer to the JX-03's USB port via USB cable.
3. Open the "JX-03" drive on your computer.
   The backup files are located in the "BACKUP" folder of the "JX-03" drive.
4. Copy the backup files into your computer.
5. After copying is completed, eject the USB drive and then disconnect the USB cable.

Windows 8/7
Right-click on the "JX-03" icon in "My Computer" and execute "Eject."
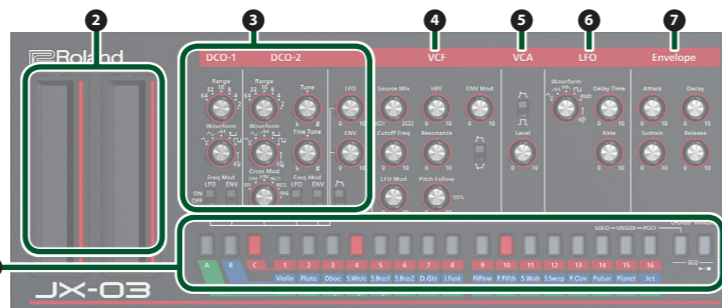
Mac OS
Drag the "JX-03" icon to the Trash icon in the Dock.
6. Turn the JX-03 power off.

Restore
1. As described in the procedure for "Backup" Step 1–3, open the "JX-03" drive on your computer.
2. Copy the JX-03 backup files into the "RESTORE" folder of the "JX-03" drive.
3. After copying is completed, eject the USB drive and then **press the [MANUAL] button.**
4. After the LEDs have completely stopped blinking, turn off the power.

Panel Descriptions

❶ Common section
Here you can switch the sound (patch/bank).

Controller	Explanation
BANK [A]–[C] buttons	**What is "Patch/Bank"?** You can recall up to 32 preset patches (16 patches x Bank A/B) and 16 user patches (16 patches x Bank C). **To switch the bank/patch** 1. Press the BANK [A]–[C] buttons to switch the bank.
PATCH [1]–[16] buttons	2. Press the PATCH [1]–[16] buttons to switch the patch. * For each sound, refer to the "JX-03 Sound List" (PDF). ➡ http://www.roland.com/manuals/ **To store the patch** 1. Long-press the PATCH [1]–[16] button of the save-destination. * User patches are saved in bank C.
[CHORUS] button	Turns the chorus effect On/Off.
[MANUAL] button	Causes sound to be produced according to the current settings of the knobs.

❷ Ribbon controller (C1/C2)
These are touch-type ribbon controllers. C1 (left) is pitch bend, and C2 (right) is modulation.
* If a K-25m keyboard unit, USB, or MIDI are not connected, touching the C1 controller plays a preview sound.

❸ DCO-1/DCO-2
Here you can select the waveform that determines the character of the sound, and specify its pitch.

Controller	Explanation
[Range] (64–2) knob	Specifies the octave of the oscillator.
[Waveform] knob	Selects the waveform that is the basis of the sound. ∿ (Sine wave), ◿ (Triangle wave), ◣ (Sawtooth wave), ⊓ (Asymmetrical pulse wave), ⊓⊔ (Square wave), ░ (Pink noise), ▒ (White noise)
[Tune] knob	Adjusts the pitch of the DCO-2.
[Fine Tune] knob	Makes a fine adjustment to the DCO-2 pitch.
Freq Mod [LFO] switch	Allows the ❻ LFO to modulate the DCO pitch (producing vibrato).
Freq Mod [ENV] switch	Allows the ❼ Envelope to modulate the DCO pitch.
[Cross Mod] knob	**SYNC 1–2** This is oscillator sync. It generates a complex waveform by forcibly resetting DCO-2 to the beginning of its cycle in synchronization with the DCO-1 frequency. Setting the value to 2 produces a greater effect. **MET 1–2 (METAL)** Produces a metallic sound by using the DCO-2 waveform to modulate the DCO-1 frequency. Setting the value to 2 produces a greater effect. **RING** This is a ring modulator. It generates a complex waveform by multiplying DCO-1 and DCO-2.
[LFO] knob	Adjusts the depth by which ❻ LFO modulate the DCO.
[ENV] knob	Adjusts the depth by which ❼ Envelope modulate the DCO.
[⊓/⊔] switch	Selects the polarity (direction) of the envelope.

❹ VCF
These settings determine the brightness and thickness of the sound.

Controller	Explanation
[Source Mix] knob	Adjusts the volume balance of the DCO-1 and DCO-2. Turning the knob to the left increases the DCO-1 volume; turning it to the right increases the DCO-2 volume.
[HPF] knob	Specifies the cutoff frequency of the high-pass filter. Frequency components below the cutoff frequency are cut.
[Cutoff Freq] knob	Specifies the cutoff frequency of the low-pass filter. Frequency components above the cutoff frequency are cut, making the sound mellower.
[Resonance] knob	Resonance boosts the sound in the region of the filter's cutoff frequency. Higher settings produce stronger emphasis, creating a distinctively "synthesizer-like" sound.
[LFO Mod] knob	Uses the ❻ LFO to vary the cutoff frequency.
[Pitch Follow] knob	Adjusts the way in which the pitch of the note affects the cutoff frequency (key follow) when using the keyboard to control cutoff frequency. Turning the knob to the left causes the cutoff frequency to fall as you play higher on the keyboard.
[ENV Mod] knob	Adjusts the depth by which the ❼ Envelope controls the cutoff frequency.
[⊓/⊔] switch	Selects the polarity (direction) of the envelope.

❺ VCA
Here you can adjust the amount of time-varying change (envelope) for the volume.

| Controller	Explanation
[⊓/⊓⊔] switch	Selects whether the volume is controlled by ❼ Envelope (⊓) or by the gate signal (⊓⊔).
[Level] knob	Adjusts the volume of the patch.

❻ LFO
Here you can create cyclic change (modulation) in the sound.

Controller	Explanation
[Waveform] knob	Selects the LFO waveform. ∿ (Sine wave), ◿ (Sawtooth wave), ◺ (Reverse sawtooth wave), ⊓⊔ (Square wave), RND (Random wave), ▒ (Noise)
[Delay Time] knob	Specifies the time from when the tone sounds until the LFO reaches its maximum amplitude.
[Rate] knob	Determines the speed of the LFO.

❼ Envelope
Here you can create time-varying change (envelope).

Controller	Explanation
[Attack] knob	Attack time
[Decay] knob	Decay time
[Sustain] knob	Sustain level
[Release] knob	Release time
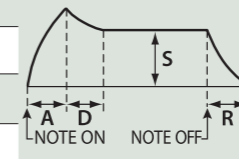
Step Sequencer

The step sequencer lets you input a note at each of up to 16 steps, and play back the notes as a loop.
You can change the number of steps between 1 and 16. Up to 16 patterns can be stored.
1. Press the [CHORUS] and [MANUAL] buttons (SEQ) simultaneously to enter the Step Sequencer mode.
   The [▶/■] button blinks.
   * To exit the Step Sequencer mode, press again [CHORUS] and [MANUAL] buttons simultaneously.

Step buttons [1]–[16]
In Step Sequencer mode, the 16 numeric buttons shown in the illustration are called **[1]–[16] (Step buttons)**.

Function	Controller
Play start/stop	[MANUAL] (▶/■)
Tempo	[CHORUS] + C1
On/off status of each step	[1]–[16]
Enter a note	[1]–[16] + C1 (or keyboard)
Enter a tie	Step button + Next step button (e.g.: [1] + [2])
Enter a gate time	[1]–[16] + C2
Set the gate time of all steps	[CHORUS] + C2
Select a pattern (1–16)	[CHORUS] + [1]–[16]
Write the pattern (1–16)	[CHORUS] + [1]–[16] (long-press)
Pattern settings	
Number of steps (1–16)	[MANUAL] + [1] ➡ [1]–[16]
Shuffle	[MANUAL] + [2] ➡ [4]–[12] (default: [8])
Scale	[MANUAL] + [3] ➡ (see diagram; default: [2])
Sequencer settings *1	
Step order type	[MANUAL] + [15] ➡ [1] Normal (default), [2] Even/Odd reverse, [3] Odd only, [4] Even only, [5] Odd only → Even only, [6] Even only → Odd only, [7] Random
Off step mode	[MANUAL] + [16] ➡ [1] Rest (default), [2] Skip

*1 Sequencer settings return to the default setting when the power is turned off.

Inputting steps
1. Hold down the step button ([1]–[16] buttons) at which you want to enter a note.
2. While holding down the step button, play the keyboard. Alternatively, use the C1 ribbon controller to specify the note.
3. Release the step button.
4. Press the [▶/■] button to play back.
* To delete the note at a step, turn off a step button ([1]–[16]) that contains a note (making the button go dark).

Settings

Numeric buttons [1]–[16]
In Settings mode, the 16 numeric buttons shown in the illustration are called the **[1]–[16] buttons**.

SOLO/UNISON/POLY/Octave Shift/Portamento
1. While holding down the [CHORUS] button, specify the value by using the numeric buttons shown in the following table or the C1/C2 ribbon controller.

Parameter	Value setting	Explanation
SOLO/UNISON/POLY mode	[14]	Plays monophonically (SOLO).
	[15]	Plays all sounds in unison (UNISON).
	[16]	Plays polyphonically (POLY).
Octave Shift *1	[4]–[13] (-4–+5)	Shifts the keyboard range in steps of one octave. For the ±0 (default) setting, [8] is lit.
Portamento Switch	C1 (OFF/ON)	Creates a smooth change in pitch between one key and the next key played.
Portamento Time	C2 (0–100)	Adjusts the time required for the pitch change.

System Settings
1. While holding down the [MANUAL] button, press one of the numeric buttons shown in the following table to select the parameter.
   * Keep holding down the [MANUAL] button.
2. Press a numeric button to select the value, and release the [MANUAL] button to confirm the value.

Parameter	Select	Value setting	Explanation
Master Tune	[MANUAL] + [1]	[1]–[16] (433–448 Hz)	Specifies the master tuning. For the 440 Hz (default) setting, [8] is lit.
MIDI Channel	[MANUAL] + [2]	[1]–[16]	Specifies the MIDI transmit/receive channel (1–16).
MIDI Clock Source	[MANUAL] + [3]	[1] (AUTO)	If MIDI clock is being input to the MIDI IN connector or the USB port, the JX-03's tempo will automatically synchronize to MIDI clock (default).
		[2] (INTERNAL)	The JX-03 operates at the tempo specified on the unit itself. Choose the "INTERNAL" setting if you don't want to synchronize to an external device.
Transpose *1	[MANUAL] + [4]	[2]–[13] (-6–+5)	Transposes the keyboard range in semitones. For the ±0 (default) setting, [8] is lit.
Key Velocity *1	[MANUAL] + [5]	[1] (TOUCH)	Adjusts the velocity value that will be transmitted when you play the keyboard. Actual keyboard velocity will be transmitted.
		[2] (64)	A fixed velocity value (64 or 127) will be transmitted regardless of how you play.
		[3] (127)	
Velocity Curve *1	[MANUAL] + [6]	[1] (LIGHT)	Sets the keyboard's touch. Sets the keyboard to a light touch.
		[2] (MEDIUM)	Sets the keyboard to the standard touch.
		[3] (HEAVY)	Sets the keyboard to a heavy touch.
Auto Off	[MANUAL] + [7]	[1] (OFF)	The power does not turn off automatically.
		[2] (30 min)	The power turns off automatically after 30 minutes. * Auto Off does not occur while USB-connected.
LED Demo	[MANUAL] + [8]	[1] (OFF)	Specifies the time until the LED DEMO is shown.
		[2] (1 min)	
		[3] (3 min)	
		[4] (10 min)	
Chain Mode	[MANUAL] + [9]	[1] (OFF)	Although the JX-03 is four-note polyphonic, you can increase the polyphony by using a MIDI cable to connect two or more JX-03 units and turning Chain mode on. If Chain mode is on, the fifth voice and subsequent notes are passed "thru" via MIDI OUT.
		[2] (ON)	
Ribbon Controller Note Scale	[MANUAL] + [10]	[1]–[16]	Sets the note scale type of the ribbon controller (default: [1]). For details, refer to "JX-03 Sound List" (PDF). ➡ http://www.roland.com/manuals/
C2 Modulation Hold	[MANUAL] + [11]	[1] (HOLD OFF) (default)	
		[2] (HOLD ON)	
Chorus Noise	[MANUAL] + [12]	[1] (NOISE OFF)	
		[2] (HALF)	
		[3] (ORIGINAL JX CHORUS) (default)	
Patch settings			
Bend Range	[MANUAL] + [13]	[1]–[12], [13] (2 oct), [16] (OFF)	Specifies the Pitch Bend Range in semitones. (default: [2])
Delay Level	[MANUAL] + [14]	[1]–[16]	Adjusts the volume of delay sound. (OFF=[1])
Delay Time	[MANUAL] + [15]	[1]–[16]	Adjusts the delay time (the time by which the sound is delayed).
Delay Feedback	[MANUAL] + [16]		Adjusts the delay feedback. (OFF=[1])

*1 Only when using the K-25m keyboard unit (sold separately)

Main Specifications — Roland JX-03: SOUND MODULE

Maximum Polyphony	4 voices
Power Supply	Rechargeable Ni-MH battery (AA, HR6) x 4, Alkaline battery (AA, LR6) x 4, USB bus power
Current Draw	500 mA (USB bus power)
Dimensions	300 (W) x 128 (D) x 46 (H) mm / 11-13/16 (W) x 5-1/16 (D) x 1-13/16 (H) inches
Weight (including batteries)	950 g / 2 lbs 2 oz
Accessories	Owner's Manual, Leaflet "USING THE UNIT SAFELY," Alkaline battery (AA, LR6) x 4
Options (sold separately)	Keyboard unit: K-25m

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