Roland TR-09 Rhythm Composer Owner's Manual

Introduction

- The TR-09 is a sound module that uses cutting-edge modeling technology to faithfully model the Roland TR-909 which went on sale in 1983. In addition to its compact size, it allows battery-powered operation and contains a small speaker. You'll be able to enjoy full-fledged TR-909 sound anywhere
- The TR-09 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.
- 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" (leaflet "USING THE UNIT SAFELY"). 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 "b L.L. a" blinks in the display. Replace the battery as soon as possible
- Using the TR-09 in conjunction with the DK-01 Boutique Dock (accessory)
- moval/angle adjustment, refer to the DK-01's Owner's Manual.

Playing the TR-09 via MIDI or USB You can also play the TR-09 via MIDI or USB. For details, refer to "Connecting Your Equipment."

Connecting Your Equipment



Use a commercially available USB 2.0 cable (A-microB) to connect this port to your computer. ➡ "Connecting via USB"

B [VOLUME] knob

Adjusts the volume

GPHONES jack nnect headphones (sold separately) here

OUTPUT jack

ect this jack to your amp or monitor speakers MIX IN 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 synchronize the TR-09 with other MIDI device by using a commercially available MIDI cable to make connections

Turning the Power On

G [POWER] switch his turns the power on/off

- After you've made connections correctly, be sure to turn on the power in the order of the TR-09 first, and then the connected system. Powering-on in the incorrect order may cause ma unctions or damage. Whe turning the power off, power-off the connected system first, and then the TR-09.
- 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.

Overview The TR-09 has 96 "patterns" and eight "tracks" in which these patterns can be arranged.

Track (8)
Bank: 2 Track: 4
<u>8</u> 0
15
[1]–[3] buttons
]-[4] buttons
itton





1. Hold down the [SHIFT] button and press the [EDIT] button 2. Use the [TEMPO] dial to select the parameter.

Parameter Explanation GAIN GAIN Gain

MIDI IN

TR-09

MIDI device

Playing Sounds

EUNE Tuning (pitch) dEE DECAY Decay length

The editable main keys [1]-[16] are lit.

3. Press the [ENTER] button, to confirm the paramet

Value appears. 4. Press a main key [1]–[16] to select the sound that you want to edit





5. Use the [TEMPO] dial to set the value 6. Press the [EDIT] or [ENTER] button, to exit the edit.

Editing the Compressor Level

You can apply a compressor to the BASS DRUM and SNARE DRUM. 1. Press the [COMP] button. The editable main keys [1]–[4] are lit. 2. Press a main key to select BASS DRUM (1-2) or SNARE DRUM (3-4). **3.** Use the [TEMPO] dial to set the compressor level.

To turn the compressor off, turn the knob all the way to the left. 4. Press the [COMP] or [ENTER] button, to exit the edit.

Playing/Recording a Pattern

Pattern Playback

Enalish

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Selecting PATTERN PLAY mode

1. Press one of the PATTERN PLAY [1]–[3] buttons.

Playing a pattern

1. Press the [START] button to play a pattern.

- To stop, press the [STOP/CONT] button.
- · When you press the [STOP/CONT] button once again, playback resumes from the location at which you stopped.

 During playback, you can hold down the [SHIFT] button and press the [START] button to pause playback; playback restarts when you release the button. This is a convenient way to match the timing when you're synchronizing manually.

Selecting a pattern 1. Hold down the [SHIFT] button and press the BANK [I] or [II] button to select the bank.

2. Use the PATTERN PLAY [1]-[3] buttons to select a pattern group.

3. Use the main keys [1]–[16] to select a pattern.

• By pressing two main keys simultaneously you can select a range. The selected patterns play back

consecutively • You can also switch patterns during playback. When a pattern finishes playing, the next pattern plays.



ne [TEMPO] dial.	
	MEA

Pattern Write



Step Write (Step Recording)

Create a pattern by specifying the steps at which each sound is heard.

(Tap Write (Realtime Recording) Create a pattern by using the main keys [1]-[16] to perform in real time while you record that performance.

Step Write (Step Recording)

Before you continue, use the [SHIFT] + BANK [I] or [II] buttons to select a bank.

Selecting PATTERN WRITE mode 1. Hold down the [SHIFT] button and press one of the PATTERN PLAY [1]-[3] buttons. That PATTERN PLAY [1]-[3] button blinks.

Selecting STEP WRITE (Step Recording) mode

1. Hold down the [SHIFT] button and press the [STEP] (TEMPO) button. PATTERN WRITE MODE Clearing a pattern

1. Hold down the [CLEAR] button and press one of the main keys [1]-[16] to select the pattern that you vant to clear

Executing step write 1. Press the [START] button.

2. Hold down the [INSTRUMENT SELECT] button and press one of the main keys [1]-[16] to select the sound that you want to reco

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1											INS				
BASSI	RUM	SNARE	DRUM	LOW	TOM	MID	TOM	HIII	OM	RIM	CLAP	CLOSED OPE	N CLOSED	CRASH	RIDE
BA: DRU			ARE UM		W W M	MI TO	-		l HI DM	RIM SHOT	HAND CLAP	HI HA		SH CYMB RIDE C	
For HI-I	HAT, sir	nultan	eously	pressir	ng [13]	and [14	1] selec	ts the	open h	i-hat.					

3. Use the main keys [1]–[16] to specify the steps at which you want the sound to be heard.

BASS DRUM, SNARE DRUM, TOM, CLOSED HI-HAT:	
Each time you press the button, the setting cycles between off \rightarrow weak \rightarrow	
strong (accented).	
Other Sounds:	

Each time you press the button, the setting cycles between off \rightarrow strong

(accented) The order of this cycle can be changed using the system setting "Programming Mode."

Entering backbeats (32 steps)

By holding down the [ENTER] button and pressing a main key [1]-[16], you can enter a note that is skewed 1/2 step later. This lets you enter up to 32 steps in one pattern. 4. Repeat steps 2–3.

5. Press the [STOP/CONT] button to stop

Trigger Out

Setting the scale Perform this operation in step write or tap write mode (the started cond

1. Press the [SCALE] button to set the scale.

* Do not use a "stereo mini-plug" cable; it won't work correctly

LED	Explanation	
0-1%	16th note triplet ()	Six steps will be one beat.
	8th note triplet ()3)	Three steps will be one beat.
	32nd note ()	Eight steps will be one beat.
	16th note ()	Four steps will be one beat.

You can prevent the scale from being accidentally changed by pressing a button. Change this setting in the system setting "SCALE button lock."

The TRIGGER OUT jack outputs a trigger pulse. You can use a mini-plug (mono) cable to connect this jack to an external device and control that device from the TR-09.

Setting the last step Perform this on in step write mode (the started condition

1. Hold down the [LAST STEP] button and press a main key [1]–[16] to specify the last step. You can also change the Last Step by holding down the [LAST STEP] button and turning the [TEMPO] dial.

Entering the total accent Perform this operation in step write mode (the started conditi

1. Hold down the [INSTRUMENT SELECT] button and press the [TOTAL ACCENT] (ENTER) button.

Higher numbers produce greater shuffle. You can use the [TEMPO] dial to adjust the setting in detail.

Here's how to enter a flam for the BASS DRUM, SNARE DRUM, or TOM.

Press two buttons simultaneously.

TOM (Example: for BASS DRUM, press [1] + [2])

1. Hold down the [INSTRUMENT SELECT] button and simultaneously press the two buttons sho

Т

MID TOM

3. By holding down the [SHUFFLE/FLAM] button and press one of the main keys [9]–[16] you can specify

Higher numbers produce a more widely spaced flam. You can use the [TEMPO] dial to adjust the setting in

Selecting PATTERN WRITE mode

2. Press the main keys [1]-[16] of the steps to which you want to add an accent.

3. Use the [TOTAL ACCENT] knob to adjust the strength of the accent.

SHUFFLE OFF: [SHUFFLE/FLAM]+[8]

SNARE

DRUM

Tap Write (Realtime Recording)

That PATTERN PLAY [1]-[3] button blinks.

setting.

Entering a flam

Т

BASS

DRUM

want to clear.

1. Press the [START] button

You'll hear the click.

2. Press the [CYCLE/GUIDE] button.

3. Use the main keys [1]–[16] to perform

4. Press the [STOP/CONT] button to stop.

Chain (Connecting Patterns)

Convenient Functions

Copying a Pattern

Setting a chain

[ENTER] button.

[7] + [ENTER]

System Settings

1. Press the [MENU] button to make it light.

3. Use the [TEMPO] dial to set the value.

Example: to chain patterns 7–10 [7] + [10] + [ENTER]

Example: to remove pattern 7 from patterns 7–10

the spacing of the flam.

Shuffle settings Perform this operation in step write mode (the started condition 1. Hold down the [SHUFFLE/FLAM] button and press one of the main keys [1]–[7] to specify the shuffle

Perform this operation in step write mode (the started condition).

LOW

TOM

2. Press a main key [1]-[16] to specify the step at which you want to enter a flam

* Before you continue, use the [SHIFT] + BANK [I] or [II] buttons to select a bank.

1. Hold down the [SHIFT] button and press the [TAP] (BACK) button.

➡ Refer to "Using the Main Keys [1]–[16] to Play Manually."

lere's how to copy a pattern. You can also copy to another bank or group.

You can connect two or more patterns and use them as a single pattern

Select the paste-destination pattern.
 Hold down the [SHIFT] button and press the following buttons in the order given.
 BANK (I, II) → PATTERN GROUP (1-3) → MAIN KEY (1-16)

2. Select the copy-source pattern. Hold down the [SHIFT] button and press the following buttons in the order given.

Perform this operation in step write or tap write mode (the unstarted condition).

1. Hold down the pattern that you want to unchain, and press the [ENTER] button.

2. Use the [TEMPO] dial to select the parameter, and then press the [ENTER] button.

To exit the system settings, press the [MENU] button to make it go dark.

[COPY] (11) → BANK (I, II) → PATTERN GROUP (1-3) → MAIN KEY (1-16) → [ENTER]

1. Hold down the first and last buttons of the pattern that you want to connect as a chain, and press the

Removing a chain

1. Hold down the [SHIFT] button and press one of the PATTERN PLAY [1]–[3] buttons.

Selecting TAP WRITE (Realtime Recording) mode

Clearing a pattern

1. Hold down the [CLEAR] button and press one of the main keys [1]-[16] to select the pattern that you

Executing tap write

• During recording, you can clear a sound by holding down the [CLEAR] button and then holding down a main key of the sound that you want to clear (in the case of SNARE DRUM, either [3] or [4]).

• Your performance is entered at the timing that you specified by the scale setting (quantized).

Selecting a track 1. Hold down the [SHIFT] button and press the BANK [I] or [II] button to select the bank.

2. Use the TRACK PLAY [1]–[4] buttons to select a track.

ou can arrange patterns to create a track for an entire song.

The display shows the measure number "1." If there is no data in the track, the display shows "0."

- Playing a track **1.** Press the [START] button to play a track.
- **2.** To stop, press the [STOP/CONT] button.

Playing/Editing a Track

Track Playback

- When you press the [STOP/CONT] button once again, playback resumes from the location at which you stopped
- During playback, you can hold down the [SHIFT] button and press the [START] button to pause playback; playback restarts when you release the button. This is a convenient way to match the timing when you're synchronizing manually.

Starting from mid-way (recalling a measure number)

1. Hold down the [SHIFT] button and press the following buttons in the order given. Use the main keys to specify the measure number $(0-9) \rightarrow [ENTER]$ Example: to specify measure 20

 $[2] \rightarrow [0] \rightarrow [ENTER]$ 2. Press the [STOP/CONT] button to continue playback

Track mode functions



Controller	Explanation
[TEMPO] button	Indicates the tempo. While holding down the button, you can turn the [TEMPO] dial to change the tempo. To make an adjustment below the decimal point, hold down the [SHIFT] button and turn the [TEMPO] dial.
[BACK] button	Moves one measure back.
[FWD] button	Moves one measure forward.
[AVAILABLE MEAS] button	(Only in track write mode) Displays the number of measures that can be entered.
[CYCLE/GUIDE] button	(Only in track play mode) Loop-plays the track.
[SHIFT] + [CYCLE/GUIDE] (LAST MEAS) button	Displays the last measure number.

Track Write

Before you continue, use the [SHIFT] + BANK [I] or [II] buttons to select a bank.

The display shows the measure number

Selecting TRACK WRITE mode **1.** Hold down the [SHIFT] button and press the TRACK PLAY [1]–[4] buttons to select a track. That TRACK PLAY [1]-[4] button blinks.

Deleting a track **1.** Hold down the [SHIFT] button and press the following buttons in the order given. $[1] \rightarrow [ENTER] \rightarrow [DEL] (13) \rightarrow [LAST MEAS] (CYCLE/GUIDE) \rightarrow [ENTER]$

Executing track write

1. Press the [START] button

- 2. Use the PATTERN PLAY [1]–[3] buttons and the main keys [1]–[16] to select the pattern that you want to enter at the first measu
- You can only select patterns that are in the same bank as the track.

3. Press the [ENTER] button.

- The pattern is entered, and you advance to the second measure.
- 4. Repeat steps 2–3 for the second and following measures.

5. To exit the track write, press the [STOP / CONT] button.

Making Corrections

If you made an entry by mistake, correct it as follows. 1. Hold down the [SHIFT] button and press the TRACK PLAY [1]–[4] buttons to select a track.

2. Press the [START] button.

You can also make corrections while playback is stopped. In this case, the operation of step 2 is not necessary.

- 3. Use one of the following methods to move to the measure that you want to correct.
- Use the [ENTER] button to advance the measure.
- Use the [FWD] / [BACK] buttons to move to a measure.

• Recall the measure number using step 1 of "Starting from mid-way (recalling a measure number)."

4. Use the main keys [1]–[16] to re-select the rhythm pattern.

5. Press the [ENTER] button.

6. Press the [STOP/CONT] button.

can delete patterns from the track in units of measures. Use one of the following methods to move to the measure at which you want to start deleting.					
Jse the [ENTER] button to advance the measure.					
Jse the [FWD] / [BACK] buttons to move to a measure.					
Recall the measure number using step 1 of "Starting from mid-way (recalling a measure number)."					
Hold down the [SHIFT] button and press the following buttons in the order given.					

2. [DEL] (13) \rightarrow use the main keys to specify the last measure to delete (0–9) \rightarrow [ENTER]

• Example: deleting to measure 25 $[\mathsf{DEL}] (13) \rightarrow [2] \rightarrow [5] \rightarrow [\mathsf{ENTER}]$ • Example: deleting only the first measure

Convenient Functions

Delete

1.

[DEL] (13) → [ENTER]

• Example: deleting to the last measure [DEL] (13) → [LAST MEAS] (CYCLE/GUIDE) → [ENTER]



You can also select multiple patterns by simultaneously pressing two of the main keys. 3. Hold down the [SHIFT] button and press the following buttons in the order given.

[INS] (12) → [ENTER]

Сору	
You can copy and paste the contents of a track in units of measures.	
1. Move to the paste-destination measure. Example: If you select measure 5, the data is pasted between measure 4 and measure 5.	
2. Select the copy-source pattern. Hold down the [SHIFT] button and press the following buttons in the order given. [COPY] (11) → use the main keys to specify th keys to specify the ending measure number	the starting measure number \rightarrow [ENTER] \rightarrow use the n
 If the display indicates "000," you specified a me 	

Tempo Memory

You can specify a tempo for each track.

Specifying the Perform th 1. Hold dow

The displa

Recalling the tempo Normally, the track plays at the current tempo, but you can recall the specified tempo as follo

ng the tempo								
his operation in track play mode.								
vn the [TEMPO] button and press the [ENTER] button.								
ayed tempo is specified for the selected track.								
, the terms								

1. Hold down the [TEMPO] button and press one of the TRACK PLAY [1]-[4] buttons to select the track.



Using tap write to specify trigger out

	ЕH	MIDI Channel	1– <i>16,0FF</i>	Specifies the MIDI transmit/receive channel (1–16, OFF).
	5475	MIDI Clock Source	RUED	If MIDI clock is being input to the MIDI IN connector or the USB port, the TR-09's tempo will automatically synchronize to MIDI clock (default). The TR-09 operates at the tempo specified on the unit itself. Choose
		Jource	Int	the "INTERNAL" setting if you don't want to synchronize to an external
			DFF	device. The power does not turn off automatically.
	R.DFF	Auto Off	30 (min)	The power turns off automatically after 30 minutes (default).
Using step write to specify trigger out * Perform this operation in step write mode (the started condition).	аело	LED Demo	<i>□F F</i> / (min) ∃ (min)	Auto Off does not occur while USB-connected. Specifies the time until the LED DEMO is shown (default: 3).
1. Hold down the [INSTRUMENT SELECT] button and press the [TRIGGER OUT] (MENU) button.	_		/[] (min)	Specifies the operation of main keys [1]–[16] during step write.
2. Use the main keys [1]–[16] to specify the steps at which a trigger is output.	РгБ.Л	Programming Mode	P-F F-P	Each time you press, the setting cycles in the order of Off \rightarrow Weak \rightarrow Strong (default).
Using tap write to specify trigger out	_		F - P	→ Weak.
 Perform this operation in tap write mode (the started condition). Hold down the [INSTRUMENT SELECT] button and press the [TRIGGER OUT] (MENU) button at the moment that you want a trigger to be output. To clear this, hold down the [CLEAR] + [INSTRUMENT SELECT] + [TRIGGER OUT] buttons. 	USЬ I USЬ2 USЬ3 USЬ4	USB Parallel Out	Use a com (A-microB computer, It can be u driver wh from the F the downl http: * Do not Charge In addition the parallel out Sounds for v making this BASS DRUM	<pre>ised to transfer USB MIDI and USB audio data. You must install the USB en connecting the TR-09 to your computer. Download the USB driver load. V/www.roland.com/support/ use a micro USB cable that is designed only for charging a deviceonly cables cannot transmit data. o the USB audio port MIX, the TR-09 provides four USB audio ports for out. which you press the main keys ((1]–[16]) to make them blink when setting are output via parallel output. </pre>
Restoring the Factory Settings (Factory Reset) Here's how to return the TR-09 to its factory-set state. 1. While holding down the [2] button, turn on the power. The [ENTER] button blinks. If you decide to cancel the factory reset, turn off the power. 2. Press the [ENTER] button to execute the factory reset. 3. When all buttons blink, turn the TR-09's power off, then on again. Data Backup/Restore Backup	DUE	Parallel Out	and the spec Sounds for V making this are output in are ou	of the OUTPUT jack (stereo mini) is split between left and right channels, cified sounds are output via parallel output. which you press the main keys (11–161) to make them blink while setting are output from the right channel, and sounds whose key is lit n parallel from the left channel. SNARE LOW MID HING HING COMPARENT OF THE STATE AND
1. Connect your computer to the TR-09's USB port via USB cable.	SERL	SCALE button	OFF	The scale switches each time you press the [SCALE] button (default). Hold down the [SCALE] button and use the [TEMPO] dial to select the
 Connect your computer to the TR-09 USB port valous Cable. While holding down the [START] button, turn on the power. Open the "TR-09" drive on your computer. The backup files are located in the "BACKUP" folder of the "TR-09" drive. Copy the backup files into your computer. After copying is completed, eject the USB drive and then disconnect the USB cable. Windows Right-click on the "TR-09" icon in "Computer" and execute "Eject." MacOS Drag the "TR-09" icon to the Trash icon in the Dock. Torus the TR-09 power off. Restore As described in the procedure for "Backup" Step 1-3, open the "TR-09" drive on your computer. Copy the TR-09 backup files into the "BACKUP" folder of the "TR-09" drive. After copying is completed, eject the USB drive and then press the [ENTER] button. After the LEDs have completely stopped blinking, turn off the power. 		ipecificatio	<u>ПЛ</u>	TR-09: Rhythm Composer
	Power Su			-MH battery (AA, HR6) x 4, Alkaline battery (AA, LR6) x 4, USB bus power
	Current D	Draw 500	mA (USB bu:	s power)

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	308 (W) x 130 (D) x 51 (H) mm	12-1/8 (W) x 5-1/8 (D) x 2-1/16 (H) inches				
Weight	980 g (including batteries, excluding Boutique Dock)	2 lbs 3 oz				
Accessories	Boutique Dock: DK-01, Owner's Manual, DK-01 Owner's Manual, Leaflet "USING THE UNIT SAFELY," Alkaline battery (AA, LR6) x 4					

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