The TB-03 is a sound module that uses cutting-edge modeling technology to faithfully model the Roland TB-303 which went on sale in 1982. In addition to its compact size, it allows battery-powered operation and contains a small speaker. You'll be able to enjoy full-fledged TB-303 sound anywhere

The TB-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. 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 Ł.L. a" blinks in the display. Replace the battery as soon as possible

Using the TB-03 in conjunction with the DK-01 Boutique Dock (accessory) → For installation/removal/angle adjustment, refer to the DK-01's Owner's Manual

Playing the TB-03 via MIDI or USB

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

**Connecting Your Equipment** To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units 

O O O O O O 00000(000

A Micro USB (←→) port Use a commercially available USB 2.0 cable (A-microB) to connect this ore to commercially available 030 2.0 cable (N-Inicitor) to commercially 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 TB-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/

Do not use a micro USB cable that is designed only for charging a device. Charge-only cables cannot

B [VOLUME] knob

**G** PHONES jack nect headphones (sold separately) here. OUTPUT jack

nect 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 TB-03 with other MIDI device by using a commercially available MIDI cable to make connections.

MIDI device ou can use a mini-plug (mono) cable to connect this to a device that's equipped with a TRIGGER OUT jack? (such as the TR-09). If a plug is inserted into this jack, the TB-03 is disconnected from its internal clock, so that its steps advance each time a trigger pulse is received at this jack.

CV OUTPUT jack \*1 u can use a mini-plug (mono) cable to connect this jack to an analog synthesizer that's equipped with CV/ GATE input jacks. The pitch that is played by the TB-03 is output from this jack without change. The pitch is output in the range of -1 V—+7 V. This supports OCT/V (Hz/V is not supported).

MIDI OUT

MIDI IN

- 20111 111 - 10

Bass Line

GATE OUTPUT jack \*1 This jack outputs note-on/off signals. During note-on, +12 V is output.

\*1 Do not use a "stereo mini-plug" cable; it won't work correctly

## [POWER] switch This turns the power on/off

Turning the Power On

Playing/Editing a Track

You can arrange patterns to create a track for a song

1. Turn the @[MODE] knob to set to "TRACK PLAY."

1. Use the TRACKI knob to select a track (1–7).

1. Use the [BAR RESET] button to return to measure 1.

consecutively after the last measure (D.C. measure) of the track has played

ou can use the following functions in either track play or write mode.

1. Turn the 42 [VALUE] knob to specify the measure number.

Using the [FUNCTION] button to recall a measure number

number numeric buttons Display \*1

131 [100] → [3] → [1] Lit: [100], [3], Blink: [1]

The 10s and 100s places are lit, and the 1s place is blinking.

Lit: [100], Blink: [1

Setting the tempo

While the tempo is shown, you can use the f 4[VALUE] knob to adjust the tempo.

\*1 When you press the [FUNCTION] button, the lit or blinking state of the numeric buttons indicates the

If the measure number consists of repeated digits such as 55 or 33, the lit and blinking states alternate at

In track play/write mode, the display shows the measure number, but you can press the 15 [TEMPO] button to

Setting the shuffle

→ Refer to "Pattern Playback"-"Setting the shuffle."

ঔ(Segno) indication

Viewing the transpose setting

Regardless of whether you are playing back or stopped, pressing the 

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While the tempo is shown, you can press the [TEMPO] button to see the two digits of the tempo value

2. Press the GRUN/STOP1 button to play/stop a track.

The display shows the measure number.

**Functions in Track Mode** 

Example setting:

101 [100] → [1]

make the tempo appear for three seconds.

What is D.C. (Da Capo)?

Indication of D.C. (Da Capo/last measure)

When playback reaches the end of the measure that is

The number of the measure specified as D.C. is displayed.

If you press the 26[D.S.] (Dal Segno) button during playback, the playback jumps to the measure that is specified as (Segno)

The number of the measure specified as 😵 (Segno) is displayed.

keyboard button light to indicate the transpose setting of the current measur

1. Hold down the [FUNCTION] button and press the 🛂 [ 🛠 ]

What are D.S. (Dal Segno) and 🎖 (Segno)?

specified as D.C., playback returns to the first measure of the

1. Hold down the (FUNCTION) button and press the (D.C.) button

Selecting TRACK PLAY mode

Track Playback

After you've made connections correctly, be sure to turn on the power in the order of the TB-03 first, and then the connected system. Powering-on in the incorrect order may cause malfunctions or damage. Whe turning the power off, power-off the connected system first, and then the TB-03. Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down

Playing a track

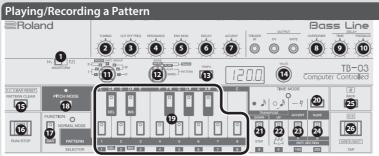
If you use the **1**[TRACK] knob to select a track (1–7) while a track is playing, the next track is played

Recalling a measure number

1. Hold down the **1**[FUNCTION] button and use the numeric buttons ([1]–[9], [0], [100], [200]) to specify

20 22 23 24 20 22 23 24

tching the unit on/off. However, this is normal and does not indicate



Adjusting the Sound [WAVEFORM] switch N: Saw wave, III: Square wave 2 [TUNING] knob Tunina 3 [CUT OFF FREQ] knob Filter cutoff (brightness of the sound) 4 [RESONANCE] knob Filter resonance (distinctive character) 5 [ENV MOD] knob Envelope modulation (tonal change) Decay (duration of the sound) 6 [DECAY] knob [ACCENT] knob Strength of accents you've input in the pattern Adjusts the overdrive. Turning this knob fully left turns it off. [OVERDRIVE] knob The overdrive type can be selected in the system settings. Furning the [FEEDBACK] knob fully left turns it off. 9 DELAY [TIME]/ The delay type can be selected in the system settings.

\* When reverb is selected, these knobs adjust the "reverb time" and "dry: [FEEDBACK] knob wet." Turning the [FEEDBACK] knob fully left turns it off.

Pattern Playback A "pattern" is performance data that divides a measure into 16 steps. The TB-03 has 96 "patterns" and seven "tracks" in which patterns can be arranged.

Selecting PATTERN PLAY mode

1. Turn the 12 [MODE] knob to set to "PATTERN PLAY."

Selecting a pattern 1. Use the U[PATT. GROUP] knob to select a pattern group (I–IV). Pattern group "I" is selected regardless of whether you select numbers 1 or 2.

2. Use the PATT. SECTION [A][B] buttons to select a pattern section (A, You can press the [A] and [B] buttons simultaneously to select C (both [A] and

3. Use the PATTERN [1]-[8] buttons to select a pattern.

When selecting a pattern, you can select multiple patterns by pressing two buttons at the same time. The patterns you've selected will play consecutively. The currently-playing pattern blinks.

Playing a pattern 1. Press the 6 [RUN/STOP] button to play/stop a pattern.

Pattern transpose 1. Hold down the  $^{f B}$ [PITCH MODE] button and then press the  $^{f \Phi}$ keyboard button.

Setting the tempo You can press the [TEMPO] button to see the two digits of the tempo value below the decimal point.

number of steps in "pattern write" mode.

Selecting TRACK WRITE mode

1. Turn the @[MODE] knob to set to "TRACK WRITE."

1. Use the U[TRACK] knob to select a track (1–7).

The pattern group that can be written to a track

1. Use the [BAR RESET] button to return to measure 1.

The pattern is entered, and you proceed to measure 2.

8. Press the 6 [RUN/STOP] button to exit the track write.

If you entered something by mistake, you can correct it as follows.

Here's how to delete one measure from the patterns in the track. 1. Turn the P[MODE] knob to set to "TRACK WRITE."

2. As described in "Recalling a measure number," move to the

3. Hold down the \*\*D[FUNCTION] button and press the \*\*D

1. Turn the @[MODE] knob to set to "TRACK WRITE."

sure 3 and measure 4.

the measure at which you want to insert.

4. Press the TRUN/STOP1 button.

6. Press the 20[WRITE/NEXT] button.

7. Press the 6 [RUN/STOP] button.

**2.** As described in "Recalling a measure number," move to

**Example:** If you select measure 4, the pattern is inserted

3. Hold down the [FUNCTION] button and press the [INS] (D#) button.

5. Use the PATT. SECTION [A][B] buttons and PATTERN [1]-[8] buttons to select the pattern that

1. Turn the @[MODE] knob to set to "TRACK WRITE."

5. Repeat steps 3–4 to enter up to one measure before the last measure.

7. Press the (D.C.) button, and then press the (WRITE / NEXT) button.

2. Recall the measure number as described in "Recalling a measure number."

Pressing the 15 [D.C.] button enters D.C. (Da Capo) at the current measure

Pressing the 25 [ & ] (Segno) button enters (Segno) at the current measure

The display shows the measure number.

2. Press the GRUN/STOPI button

**6.** Select the pattern for the last measure.

D.C. (Da Capo) is entered

**Making Corrections** 

3. Press the 6 [RUN/STOP] button.

measure that you want to delete.

[DELETE] (C #) button

6. Press the 16[RUN/STOP] button.

Entering D.C. (Da Capo)

Entering 🛠 (Segno)

Delete

Insert

If you long-press the [TEMPO] button, the shuffle value is displayed.

You can use the [VALUE] knob to adjust the tempo. 

You can set the shuffle setting by holding down the [3 [TEMPO] button and turning the [4 [VALUE] knob

Temporarily changing the number of steps in a pattern Hold down the @[TIME MODE] button and turn the 4 [VALUE] knob to change the number of steps in the pattern (1–16). This change in the number of steps is temporary; it is not saved. If you want to save the change, change the

Selecting a track

The pattern group that can be written to a track is the group that is selected by the [TRACK] knob. For example in the case of tracks 1 and 2, the pattern group is "!."

Writing a track

Loop-playback occurs during track write. The pattern that plays at this time is the pattern that was written

If you want to write with transposition, hold down the 

[PITCH MODE] button and press a 

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[Pitch Mode] b

4. Use the PATT. SECTION [A][B] buttons and the PATTERN [1]-[8] buttons to re-select the pattern.

3. Use the 22 PATT. SECTION [A][B] buttons and the PATTERN [1]-[8] buttons to select the pattern

6-111

7 —IV

1-12

What is "step"? Each pattern is divided into 16 grid locations called "steps." One step is a 16th note long (أ).

## Pattern Write (TB-303 Original Mode

Original mode and step recording mode

The TB-03 has two pattern write modes "Original mode" reproduces the pattern write operation of the TB-303, and "step recording mode" is newly

added on the TB-03. You can use the system setting "Step Recording Mode" to switch between these mode Selecting PATTERN WRITE mode

1. Turn the <sup>1</sup> [MODE] knob to set to "PATTERN WRITE."

Selecting a pattern

→ Refer to "Pattern Playback"—"Selecting a pattern

**Setting the tempo**In pattern write mode, the display shows the step number, but you can press the <sup>1</sup> [TEMPO] button to make the tempo appear for three seconds. While the tempo is shown, you can press the <sup>1</sup> [TEMPO] button to see the two digits of the tempo value

While the tempo is shown, you can use the [VALUE] knob to adjust the tempo. Setting the shuffle

→ Refer to "Pattern Playback"—"Setting the shuffle"

Clearing a pattern 1. Hold down the PATTERN [1]–[8] button that you want to clear, and press the [PATTERN CLEAR]

**To use a triplet grid**By default, each step is a 16th note, but by holding down the  $\mathfrak{D}$ [FUNCTION] button and pressing the  $\mathfrak{D}$ [ $\overset{\sim}{\mathbb{L}}$ ] button you can use a triplet grid (each step is an 8th note triplet).

Changing the number of steps in a pattern

1. Hold down the [FUNCTION] button and press the 2 [STEP] button the number of times that you want **Example:** If you want there to be eight steps, press the button eight times.

The display shows the number of steps. You can also change the number of steps in the pattern by holding down the 20[TIME MODE] button and turning the 4 [VALUE] knob (1–16).

Entering the pitches

In TB-303 original mode, you enter the notes of a pattern using separate operations to specify the pitch and the

timing. Enter the pitches first 1. Press the [PITCH MODE] button so it's lit.

You're in pitch entry mode. 2. Use the <sup>19</sup>keyboard buttons to enter the pitches.

II- I GROUP **Example:** In the case of the following notes, enter pitches in the order "C, C, D#, C..." **Z-**-IV

> C C D C C G F D# The display shows a number (1, 2, 3...) in the order of the notes that you enter; you can use the 4 [VALUE] 3. Press the D[FUNCTION] button

Entering octave-up or octave-down pitches Shift the octave up or down by pressing (or holding down) 22[TRANSPOSE UP] or 32[TRANSPOSE DOWN], then press a weekeyboard button (Lit: ± 1 octave, Blink: ± 2 octaves).

Checking the pitches 1. Press the <sup>®</sup>[PITCH MODE] button so it's lit.

2. Press the [TAP] button to check the pitch of each note. 3. Press the T[FUNCTION] button.

If the pitches were not entered as you intended, re-enter them starting with step 1 of "Entering the pitches." Note that when you re-enter the pitches, the accent and slide data you entered are lost.

1. Press the @[TIME MODE] button so it's lit.

Entering the timing

2. Use the note selector  $\mathfrak{D}[\bullet]$  (note),  $\mathfrak{D}[\bigcirc]$  (tie), and  $\mathfrak{D}[-]$  (rest) buttons to enter the timing. **Example:** In the case of the following notes, enter "●, ○, ●, ○..." in that order 3 4 5 6 7 8 9 10 11 12 13 14 15

2. Press the [TAP] button to check the data of each note.

0000000000 The display shows the step number; you can use the 4 [VALUE] knob to select the step. When you've finished entering all of the steps (16 steps by default), the <sup>20</sup>[TIME MODE] button goes dark.

Checking the time 1. Press the [TIME MODE] button so it's lit. 3. Press the FUNCTION button

You can also check by pressing the 6 [RUN/STOP] button to play/stop the pattern.

If the notes were not entered as you intended, re-enter them starting with step 1 of "Entering the timing."

Entering accents and slides 1. Press the [PITCH MODE] button 18 so it's lit. 2. Press the @[TAP] button to check each note. If you want to add an accent, hold down the @[TAP]

button and press the [ACCENT] button. If you want to add a slide, hold down the [TAP] button and press the [SLIDE] button 3. Press the T[FUNCTION] button.

Tap Write (Entering Timing in Real Time) Before you continue, complete the steps for "Entering the pitches."

1. Press the D[FUNCTION] button.

2. Press the 16[RUN/STOP] button.

3. Press the DIPATTERN CLEAR! button.

4. In time with the sound of the metronome, press the 25[TAP] button at the timing at which you want

\* Entering the TIE: Hold down one of the  $\mathfrak{O}$ [1]–[8] buttons and tap the  $\mathfrak{O}$ [TAP] button. When you finish entering the first measure, the metronome stops and the pattern plays as a loop. If the timing was not entered as you intended, re-do the procedure from step 3.

Pattern Write (Step Recording Mode)

This is the step recording mode that was newly added on the TB-03. You'll enter notes, rests, accents, and slides/ties while watching the step number in the display

Select "step recording mode" in system settings

1. Hold down the \*\*D[FUNCTION] button and turn the \*\*P[VALUE] knob to select \*\* ##\(\alpha \delta E\).

2. Release the [FUNCTION] button.

3. Use the 4 [VALUE] knob to select "5 LEP." 4. Press the [FUNCTION] button.

Selecting PATTERN WRITE mode 1. Turn the [MODE] knob to set to "PATTERN WRITE."

Selecting a pattern → Refer to "Pattern Playback"—"Selecting a pattern

Clearing a pattern 1. Hold down the PATTERN [1]–[8] button that you want to clear, and press the [PATTERN CLEAR]

1. Press the BIPITCH MODE button so it's lit. You're in step recording entry mode 2. Use the buttons and the  $\Theta$ [VALUE] knob to enter performance data into the steps.

\* Even during step recording, you can play back the pattern by pressing the 6 [RUN/STOP] button Explanation 14 [VALUE] knob Moves between steps. 19 Keyboard buttons Enter a note and proceed to the next step. Shift the octave up/down. 2 [DOWN] button Lit: + 1 octave [UP] button While you hold down this button, the note, tie, and rest are shown by the lit buttons. [TIME MODE] button

The display shows the current step number (1–16). You can also use the \*\*[VALUE] knob to move to a

[TIME MODE] + 20[UP] button Enters a tie and proceeds to the next step. [TIME MODE] + 3 [ACCENT] button Enters a rest and proceeds to the next step. Enters an accent on/off (the step does not advance). 23 [ACCENT] button 24 [SLIDE] button Enters a slide on/off (the step does not advance).

**3.** To exit the step recording, press the  ${\bf v}_{\rm [FUNCTION]}$  button. \* For details on the following operations, refer to "Pattern Write (TB-303 Original Mode)." • Using a triplet grid

• Changing the number of steps in the pattern

1. Hold down the **(**[FUNCTION] button and turn the **(**(VALUE) knob to select a parameter.

When you release the **U**[FUNCTION] button, the parameter is finalized and the value is

2. Use the 4 [VALUE] knob to set the value

**3.** Press the **1** [FUNCTION] button, to exit the system settings. Display Parameter Value Explanation

MIDI Channel | I- IB, DFF | Specifies the MIDI transmit/receive channel. If MIDI clock is input from the MIDI IN connector or the USB port, the tempo automatically synchronizes to MIDI clock (default). If MIDI clock is input simultaneously from the MIDI IN connector and the USB port, the USB port takes priority. MIDI Clock The tempo operates according to the TB-03's own setting. Use this setting if you don't want to synchronize with an external device. The tempo synchronizes to MIDI clock being input from the MIDI IN 7 . . . . И5Ь

BAR

The tempo synchronizes to MIDI clock being input from the USB port. Specifies whether data received from the MIDLIN connector will be retransmitted from the MIDI OUT connector (On: default) or will not be Lhru oft Thru retransmitted (OFF). The power does not turn off automatically. R.DFF Auto Off The power turns off automatically after 30 minutes (default). *∃□* (min) \* Auto Off does not occur while USB-connected. *дЕПО* Specifies the time until the LED DEMO is shown (default: 3). LED Demo (min) This is original mode, which reproduces the TB-303's pattern write operation (default setting). This mode uses a unique concept in which pitch and timing (time) are

entered using separate processes, and requires practice in order to enter the phrase that you intend. Although this mode requires complex operation, it can result in some remarkable phrases being created by NodE accident, so please try using it. This is step recording mode, which was newly added on the TB-03. You can enter notes while watching the step number in the display. Compared with original mode, this mode makes it easier to enter the phrase that you intend. We recommend that beginners start by learning this mode. This is the high-gain overdrive sound of the BOSS OD-2. Overdrive This gives a basic, traditional distortion sound. Dδ Produces a distortion sound with both the smoothness of an overdrive

along with a deep distortion.

1. While holding down the  ${\mathfrak D}_{[2]}$  button, turn on the power. The [TAP] button blinks. If you decide to cancel the factory reset, turn off the power.

2. Press the [TAP] button to execute the factory reset. 3. When all buttons blink, turn the TB-03's power off, then on again

Backup

d. ESP

Delay Type

**4.** Copy the backup files into your computer.

Right-click on the "TB-03" icon in "Computer" and execute "Eject."

Mac OS

Drag the "TB-03" icon to the Trash icon in the Dock.

Restore

4. After the LEDs have completely stopped blinking, turn off the power.

This document explains the specifications of the product at the time that the document was issued. For the

Main Specifications Roland TB-03: Bass Line Rechargeable Ni-MH battery (AA, HR6) x 4, Alkaline battery (AA, LR6) x 4, USB bus power 500 mA (USB bus power) Current Draw 308 (W) x 130 (D) x 52 (H) mm 12-1/8 (W) x 5-1/8 (D) x 2-1/16 (H) inches 940 g (including batteries, excluding | 2 lbs 2 oz

Boutique Dock)

Boutique Dock: DK-01, Owner's Manual, DK-01 Owner's Manual, Leaflet "USING THE UNIT SAFELY," Alkaline battery (AA, LR6) x 4

Delay Tempo Delay time is synchronized to the tempo (default: off).

Tape Echo

Reverb

ਰ ਾਹਿ । Digital Delay

Restoring the Factory Settings (Factory Reset) Here's how to return the TB-03 to its factory-set state

Data Backup/Restore

1. Connect your computer to the TB-03's USB port via USB cable. 2. While holding down the 6 [RUN/STOP] button, turn on the power 3. Open the "TB-03" drive on your computer. The backup files are located in the "BACKUP" folder of the "TB-03" drive

5. After copying is completed, eject the USB drive and then disconnect the USB cable

6. Turn the TB-03 power off.

1. As described in the procedure for "Backup" Step 1–3, open the "TB-03" drive on your computer. 2. Copy the TB-03 backup files into the "BACKUP" folder of the "TB-03" drive. 3. After copying is completed, eject the USB drive and then press the [TAP] button.