DB-30 Dr.Beat METRONOME **Owner's Manual**

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Thank you, and congratulations on your choice of the BOSS DB-30 Dr. Beat METRONOME.

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES." 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.

Main Features

- O Comes not only with basic Styles (the way the metronome sound is played) pre-programmed, but also Styles with compound beats
- O You can set the tempo by pressing the TAP button in time with the song tempo (tap input of the tempo).
- O You can specify the reference tone in semitone increments over a range of one octave. This is convenient for use in practicing with wind instruments and for tuning (Reference Tone function). O Features an Auto Power Off function, which
- automatically turns off the power when the DB-30 is not used for approximately 60 minutes.

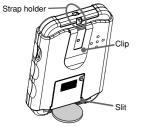
Panel Descriptions



POWER button

Turns the power on and off.

- * Always make sure to have the volume level turned down before switching on power. Even with the volume all the way down, you may still hear some sound when the power is switched on, but this is normal, and does not indicate a malfunction. 2. RHYTHM/BEAT button
- Switches the unit to Metronome mode. Switches the TEMPO/RHYTHM/BEAT display.
- **3.** NOTE/PITCH button
- Switches the unit to Reference Tone mode. **4.** TEMPO/VALUE button
- Changes the metronome tempo and the values indicated
- in the display.
- **5.** START/STOP button
- Starts and stops the metronome and reference tone
- **6.** TAP/MUTE button Sets the metronome tempo (Tap function, when the metronome is stopped), and temporarily mutes the sound (Mute function, when the metronome is playing).
- **7.** VOLUME dial
- Adjusts the overall volume.
- 8. Tempo indicators
- Lights in time with the tempo
- 9. Display
- Information in the display is changed depending on the modes.
- * Never strike or apply strong pressure to the display.
- **10.**PHONES jack
- Connect headphones here.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- You can insert a coin in the slit on the bottom of the unit and use the coin as a stand. • The strap can be passed through the hole shown in
- the figure
- You can use the clip on the back to set the unit on a music stand



Operation

- Using the DB-30 as a Metronome
- 1. With the power turned on, press the RHYTHM/BEAT button to switch the DB-30 to Metronome mode When the DB-30 is in Metronome mode, "RHYTHM," "TEMPO," and "BEAT" appear in the display. 2. If "RHYTHM." "TEMPO." and "BEAT" are dis-
- played, press the TEMPO/VALUE ▼/▲ buttons to set the tempo. Holding down the TEMPO/VALUE \checkmark or \blacktriangle button
- when setting the metronome tempo causes the values to change more rapidly. You can set the tempo within the range of J = 30-250.
- 3. Press the START/STOP button to start the metronome. To stop the metronome, press the START/ STOP button once more
- You cannot change the tempo with the TEMPO/VALUE \checkmark or \blacktriangle buttons while "RHYTHM" or "BEAT" is flashing in the display. If you want to change the tempo, press the RHYTHM/BEAT button so "RHYTHM" and "BEAT" stop flashing and remain lit in the display.

Setting the Tempo with Tap Input

- While in Metronome mode, with the metronome stopped, you can tap the TAP/MUTE button two or more times to set the tempo so it matches the timing you've used in tapping the button.
 - You cannot change the tempo with the TAP/MUTE button while the metronome is playing.

Setting the Way the Metronome Plays

- 1. Press the RHYTHM/BEAT button in Metronome mode so that "RHYTHM" or "BEAT" flashes in the display.
- 2. Select a Rhythm or a Beat with the TEMPO/VALUE If "RHYTHM" is flashing in the display, you can select from 9 different Rhythms. If "BEAT" is flashing in the display, you can select from 24 different Beats. Holding down the TEMPO/VALUE \checkmark or \blacktriangle button when setting the beat causes the values to change

Playing the Reference Tone

continuously

- 1. With the power turned on, press the NOTE/PITCH button to switch to Reference Tone mode. When the DB-30 is in Reference Tone mode, "PITCH"
- or "NOTE" appears in the display. **2.** While "NOTE" is lit in the display, set the note name with the TEMPO/VALUE \checkmark or \checkmark buttons. You can set the note name in semitone increments over an octave range from C to B.
- You cannot change the note name with the TEMPO/ VALUE \checkmark or \blacktriangle buttons while "PITCH" is lit in the display. If you want to change the note name, press the NOTE/PITCH button so "NOTE" is lit in the display.
- **3.** Press the START/STOP button to play the reference tone. Press the START/STOP button again to stop the sound

Setting the Reference Pitch

- Press the NOTE/PITCH button in Reference Tone mode so that "PITCH" is lit in the display.
- **2.** Set the reference pitch with the TEMPO/VALUE \checkmark or **▲** buttons. The reference pitch is set in terms of the value of A4,
- which can be any frequency from 438 to 445 Hz. If you want to change the note name, press the NOTE/
- PITCH button so "NOTE" is lit in the display.

What is the reference pitch?

The frequency for A4 (the middle A on a piano) of a note played by an instrument (a piano, for example) as the pitch to which all other performers tune their instruments for performances is called the "reference pitch."

Other Functions

Auto Power Off

The Auto Power Off function works to help prevent unnecessary battery drainage by automatically turning off the DB-30's power if no operation or adjustment is made within 60 minutes after any button is pressed.

• Disabling the Auto Power Off Function

To disable the Auto Power Off function, first turn off the DB-30's power, then hold down the TAP/MUTE button as you press the POWER button to turn the power back on again.

The Auto Power Off function is disabled. " 888 " is indicated in the display while the TAP/MUTE button is held down. The Auto Power Off function is enabled again the next time the DB-30 is turned on again.

Changing the Batteries

The display and indicators get dimmer and the volume starts to drop when the battery starts running down. Replace the battery as soon as possible.

- The settings stored in the memory are reset to the default factory settings if the batteries are removed from the DB-30, or if the batteries get completely depleted.
- When turning the unit upside-down, handle with care to avoid dropping it, or damaging the buttons and controls
- 1. Removed the screw from the battery cover. . . **2.** Slide off the cover.
- 3. Remove the old batteries from the compartment.
- **4.** Insert the same type of fresh lithium battery.
- * Make sure the "+" and "-" ends of the battery are oriented correctly.
- 5. Securely close the battery cover, and fasten the screw

Restoring the Factory Settings

This returns all settings on the DB-30 to the values they had when the unit shipped from the factory.

- 1. Hold down the START/STOP button as you press the POWER button to turn the power on.
- " \$\$\$\$ " is indicated in the display while the START/ STOP button is held down.

All of the settings are restored to their original factory status.

Factory Settings

120	Beat:	4
ch·440Hz	Reference Tone: Mute	A Off
	120 J ch: 440Hz	120 Beat: Reference Tone:

Main Specifications

Metronome

- Tempo:] =30-250 (Accuracy: ±0.1%) - BEAT: 0-9, 2+3, 3+2, 3+4, 4+3, 4+5, 5+4, 5+6, 6+5, 6+7, 7+6, 7+8, 8+7, 8+9, 9+8 (24 kinds)
- RHYTHM: Quarter note (」), Eighth note (🞵), Eighth rest and eighth note (γh) , Triple $(\prod_{i=1}^{3})$, Triple with cen-

ter rest $(\sqrt[3]{7a})$, Sixteenth note $(\sqrt[3]{7a})$, Sixteenth note with

sixteenth rest (4) 4), CLAVE 1 (),),

CLAVE 2 $(, \gamma)) (9 \text{ kinds})$

Reference Tone

out prior notice.

- Reference Pitch: A4 = 438 Hz-445 Hz (1 Hz steps) Reference Tone Range: C4-B4 (Accuracy: ±1 cent)
- Auto Power Off function: Turns unit off after 60 min.
- Memory function: Stores the settings when the power is turned off. (The Mute status is not stored in memory.)
- Indicators: LCD Display, Tempo Indicator LED x 2 Connector: PHONES Jack (Stereo miniature phone type)
- Power Supply: CR2032 lithium battery x 1 Power Consumption: 10 mA or less (with reference)
- tone sounding) - Expected battery life under continuous use:
- Approximately 20 hours

• Weight: 70 g / 3 oz (including batteries)

* These figures will vary depending on the actual conditions of use • Dimensions: 61 (W) x 90 (D) x 20 (H) mm /

Accessories: CR2032 lithium battery, Owner's Manual

* In the interest of product improvement, the specifications

and/or appearance of this unit are subject to change with-

2-7/16 (W) x 3-9/16 (D) x 13/16 (H) inches

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USING THE UNIT SAFELY

About the Symbols

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R.

ALWAYS OBSERVE THE FOLLOWING

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place parts vides specific

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About A WARNING and A CAUTION Notices

improperly.

improperly.

animals or pets.

Before using this unit, make sure to read the instruct

tions below, and the Owner's Manual.

Do not open (or modify in any way) the unit.

Do not attempt to repair the unit, or replace parts within it (except when this manual provides specification)

Center, or an authorized Roland distributor, as

servicing to your retailer, the nearest Roland Service

Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are

Make sure you always have the unit placed so it is

level and sure to remain stable. Never place it on

headphones, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high

volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the

ears, you should immediately stop using the unit,

· Do not allow any objects (e.g., flammable material,

coins, pins); or liquids of any kind (water, soft

Immediately turn the power off, and request

as listed on the "Information" when:

If smoke or unusual odor occurs

onto the unit; or

operation of the unit

nas become wet); or

servicing by your retailer, the nearest Roland

Service Center, or an authorized Roland distributor,

Objects have fallen into, or liquid has been spilled

· The unit has been exposed to rain (or otherwise

The unit does not appear to operate normally or exhibits a marked change in performance.

In households with small children, an adult should

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

reasonable protection against narmul interference in a residential installation. Intre equipment generates, uses, and can radiate radio focuency entergrand. In oil installation communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following

onnected. dealer or an experienced radio/TV technician for help

device complies with Part 15 of the FCC Rules. Operation is subject

s Class R dinital annaratus meets all renu

BOSS Corporation

1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may

ent has been tested and found to comply with the limits for a Class B digit suant to Part 15 of the FCC Rules. These limits are designed to provid

ant or relocate the receiving antenna. use the separation between the equipment and receiver. act the equipment into an outlet on a circuit different from that to which the user is connected.

zed changes or modification to this system can void the users authority to

IL. es shielded interface cables in order to meet FCC class B I imit

NOTICE

AVIS Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada

provide supervision until the child is capable of following all the rules essential for the safe

stands that could wobble, or on inclined surfaces

This unit, either alone or in combination with

• Damp (e.g., baths, washrooms, on wet floors); or are

instructions directing you to do so). Refer all

Never use or store the unit in places that are

Subject to high levels of vibration.

listed on the "Information."

· Exposed to rain; or are

and consult an audiologist.

drinks, etc.) to penetrate the unit.

Dusty: or are

WARNING

A CAUTION

Used for instructions intended to alert

the user to the risk of death or severe

injury should the unit be used

Used for instructions intended to alert

the user to the risk of injury or material

damage should the unit be used

Material damage refers to damage o

other adverse effects caused with

respect to the home and all its furnishings, as well to domestic

The Λ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger. The 🚫 symbol alerts the user to items that must never

ied out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled. The • symbol alerts the user to things that must be arried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the powercord plug must be unplugged from the outlet.

 \bigcirc Batteries must never be recharged, heated, taken \bigcirc (

· Protect the unit from strong impact

apart, or thrown into fire or wat

battery, see a doctor immediately

· Keep lithium batteries out of reach of small

taken apart, or thrown into a fire or water

· Try to prevent cords and cables from beco

entangled. Also, all cords and cables should be

placed so they are out of the reach of children.

such as ballpoint pens, necklaces, hairpins, etc.

be observed in the region in which you live.

· Used lithium batteries must be disposed of in

reach, so there is no chance of them being

posal that may be observed in the region in

A CAUTION

(Do not drop it!)

the unit

before moving the unit.

ensure correct polarity).

swallowed accidentally.

ADVARSEL!

fejlagtig håndtering. Udskiftning må kun ske med batteri a samme fabrikat og type. Levér det brugte batteri tilbage til

Benytt samme batteritype eller en tilsvarende type anbefalt av

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ADVARSEL sfare ved feilaktig skifte

(E T

which you live.

 \triangle children. If a child has accidentally swallowed a Lithium batteries must never be recharged, heated.

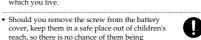
 \triangle Never climb on top of, nor place heavy objects on \bigcirc

 Disconnect all cords coming from external devices A · If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions • Carefully follow the installation instructions for

 \bigcirc batteries, and make sure you observe the correct Remove the batteries whenever the unit is to remain unused for an extended period of time. • Never keep batteries together with metallic objects

· Used batteries must be disposed of in compliance with whatever regulations for their safe disposal that may Use only the specified type (model no. CR2032) of ithium battery. Be sure to insert it as directed (to

compliance with whatever regulations for their safe



CAUTION tracion if battery is

Danger of

eplaced. y with the same or manutacturer. Discard used batteries according to

VARNING lent typ som rek

verkaren. använt batteri enligt

VAROITUS vyppiin. Hävitä käytetty pa

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In addition to the items listed under "USING THE UNIT SAFELY", please read and observe the following

Power Supply: Use of Batteries

- When installing or replacing batteries, always turn off the power on this unit and disconnect any other devices you may have connected. This way, you can prevent malfunction and/or damage to other devices.
- 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
- Before connecting this unit to other devices, turn off the power to all units This will help prevent malfunctions and/or damage to other devices.

Placement

- · This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers
- · Noise may be produced if wireless inications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight place it near devices that radiate heat. eave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possi bility of discoloration and/or defor

Additional Precautions

- Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of loosing important data, we recommend that you write down important data you have stored in the unit's memory on paper.
- Please be aware that all data contain in the unit's memory may be lost when the unit is sent for repairs. Important data should always be written down or paper (when possible). During repairs, care is taken to avoid the loss of data. However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Roland assumes no liability concerning such loss of data.
- · Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting / disconnecting all cables, grasp the connector itself-never pull on the cable. This way you will oid causing shorts, or damage to the cable's internal elements.
- · When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland

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As of August 20, 2004 (ROLAND)

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