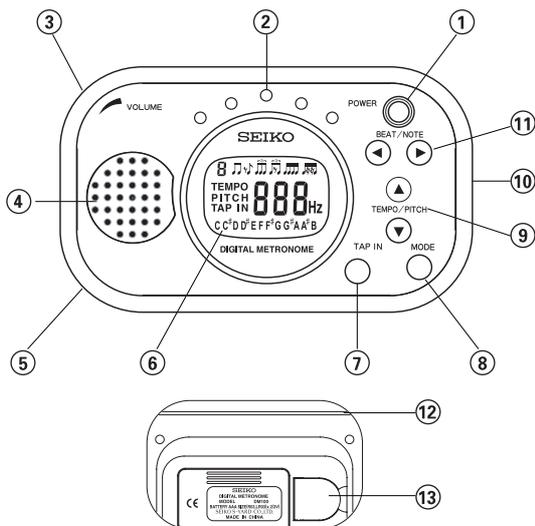


SEIKO Digital Metronome DM100

INSTRUCTION MANUAL

NAME AND OPERATION OF PARTS



- 1 Power switch**
Press it to turn on and off the metronome.
- 2 LED display**
It visually represents the tempo of the metronome with successive flashing of the LED lights.
- 3 Volume dial**
Turn it to adjust the volume of the tempo/beat sound of the metronome and the reference note.
- 4 Speaker**
It gives out the tempo/beat sound of the metronome and reference note.
- 5 Strap hole**
Use the hole to attach a strap to the metronome.
- 6 Liquid crystal display**
It displays the mode, tempo, reference note and other settings you have made.
- 7 Tap-in switch**
Press it several times at constant intervals. The metronome calculates and displays the input tempo.
- 8 Mode switch**
Press it to change over the mode among metronome, tap-in and reference note modes.
- 9 Tempo/pitch buttons**
Press the buttons to set the tempo in the metronome mode, and pitch in the reference note mode.
- 10 Earphone jack**
Insert the ø3.5 mm earphone plug into it to use with the earphone.
- 11 Beat/note buttons**
Press the buttons to set the beat/rhythm in the metronome and tap-in modes, and note in the reference note mode.
- 12 Slit for attaching the metronome to the music stand**
Use the slit to attach the metronome to the desired position of the music stand.
- 13 Prop-up stand**

HOW TO USE

* Before use, open the battery hatch, and insert the batteries included with your metronome into the battery compartment, referring to "BATTERY CHANGE" below. (Please note that the dry batteries included with the metronome are monitor batteries, and their life may be shorter than the specified period.)

● Metronome function

1. Press the power switch ① to turn on the metronome.
2. Press the mode switch ⑧ to set the mode to the metronome.
3. Press the tempo/pitch buttons ⑨ to set the tempo shown on the display as desired.
With each press of the respective buttons, the tempo digits increase or decrease by one as shown below. The digits advance or move back quickly by keeping the respective buttons pressed.
$$30 \Leftrightarrow 31 \Leftrightarrow \dots \Leftrightarrow 119 \Leftrightarrow 120 \Leftrightarrow 121 \Leftrightarrow \dots \Leftrightarrow 249 \Leftrightarrow 250$$
4. Press the beat/note buttons ⑪ to set the desired beat (0 ~ 7) or rhythm.

● Reference note function

1. Press the power switch ① to turn on the metronome.
2. Press the mode switch ⑧ to set the mode to the reference note.
3. Press the tempo/pitch buttons ⑨ to set the pitch shown on the display as desired.
With each press of the respective buttons, the pitch digits increase or decrease by one as shown below. The digits advance or move back quickly by keeping the respective buttons pressed.
$$410 \Leftrightarrow 411 \Leftrightarrow \dots \Leftrightarrow 439 \Leftrightarrow 440 \Leftrightarrow 441 \Leftrightarrow \dots \Leftrightarrow 449 \Leftrightarrow 450$$

4. Press the beat/note buttons ⑪ to set the desired reference note. With each press of the respective buttons, the reference note changes one by one in the following order. It changes quickly by keeping the respective buttons pressed.

$$C \Leftrightarrow C\# \Leftrightarrow D \Leftrightarrow D\# \Leftrightarrow E \Leftrightarrow F \Leftrightarrow F\# \Leftrightarrow G \Leftrightarrow G\# \Leftrightarrow A \Leftrightarrow A\# \Leftrightarrow B$$

● Tap-in function

1. Press the power switch ① to turn on the metronome.
2. Press the mode switch ⑧ to set the mode to the tap-in.
3. Press the tap-in switch ⑦ several times constantly at desired intervals, to a tune, for example.
4. The metronome calculates the input tempo and indicates it on the display. (The metronome indicates "Lo" when the input tempo is less than 30, and "Hi" when it is 251 and over.)
5. Press the mode switch ⑧ to change the mode to the metronome. The metronome sounds at the tempo you have input in the tap-in mode. In this case, the metronome plays the beat/rhythm that has been set previously before the tap-in function is used.

★ A tip on using the tap-in mode

After setting the metronome to the tap-in mode, press the beat/note buttons ⑪ to select the desired rhythm, and then, press the tap-in switch ⑦ to input tempo. The metronome plays the selected rhythm at the tempo you have input.

● To use DM100 with earphone

Insert the ø3.5 mm earphone plug (SEP-2: sold separately) into the earphone jack ⑩, and press the power switch ① to turn on the metronome.

- * When the earphone is used, the speaker ④ will not work, and the sound can be heard only through the earphone.
- * The DM100 earphone jack is of a monophonic type. If a stereo-type earphone is used, the sound can be heard only through one of the earphones.

MEMORY BACKUP FUNCTION

Even after the metronome is turned off, the beat, tempo, reference pitch, reference note and mode you have set are stored in memory and will not be initialized.

* If the batteries are replaced, the metronome will return to the following initial settings.

1. Beat: "0"
2. Tempo: "20"
3. Reference pitch: "440 Hz"
4. Reference note: "A"
5. Mode (metronome/reference note/tap-in): Metronome

AUTO POWER-OFF FUNCTION

DM100 is equipped with the auto power-off function to prevent the battery energy from being wasted while the metronome is left untouched with the power on.

The power will be turned off automatically if the metronome is left untouched for:

- approximately 20 minutes in the metronome and tap-in modes; and
- approximately 5 minutes in the reference note mode.

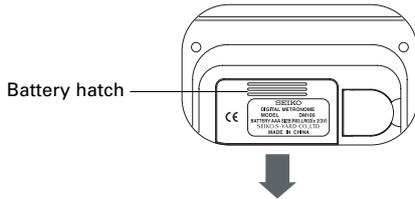
To use the metronome for an extended period of time, turn on the power by pressing the power switch ① while keeping the mode switch ⑧ pressed. Flashing "CLA" appears on the liquid crystal display ⑥ to indicate that the auto power-off function is canceled.

BATTERY CHANGE

- * When the batteries near their end, the LED and liquid crystal displays become dim, and the volume of the sound becomes weak. In that case, replace the batteries with new ones immediately. Otherwise, the metronome may work improperly.
- * The metronome may work improperly after the batteries are replaced with new ones. In that case, turn off the metronome and then turn it on by pressing the power switch ①.

● How to replace the batteries

1. Press the power switch ① to turn off the metronome.
 2. Open the battery hatch by pushing it rather strongly with a thumb in the direction of the arrow.
 3. Remove the old batteries, and insert new ones, checking that the (+) and (-) terminals of the batteries are correctly connected.
- * If the batteries are inserted in the wrong direction, a malfunction will be caused.
 - * Replace both of the two batteries with new ones at a time. Make sure that they are of the same type and of the same manufacturer's make.
 - * When disposing of the batteries, observe the regulations of the authorities concerned.



SPECIFICATIONS

1. METRONOME MODE

1-1 Range of tempo and beat/rhythm

Tempo	: Range	30 to 250 times/minute
	Selection method	Push switch (tempo/pitch buttons for increase and decrease)
Beat/rhythm	: Range	0, 1, 2, 3, 4, 5, 6 and 7
	Selection method	Push switch (beat/note buttons for advancing and moving back)

1-2 Tempo and beat display

Sound	: Strong beat / weak beat / rhythm
LED display	: Successive lighting of 5 LEDs
Accuracy	: within $\pm 0.2\%$

2. REFERENCE NOTE MODE

Pitch	: A4... ..	410 ~ 450 Hz
	Selection method	Push switch (tempo/pitch buttons for increase and decrease)
Note	: C, C#, D, D#, E, F, F#, G, G#, A, A# and B	
	Selection method	Push switch (beat/note buttons for advancing and moving back)
Accuracy	: Less than 1 cent ($\pm 0.06\%$)	

3. TAP-IN MODE

Tempo	: Range	30 to 250 times/minute
Beat	: Range	0,
	Selection method	Push switch (beat/note buttons for advancing and moving back)

4. VOLUME

The volume of tempo/beat sound and reference note can be controlled continuously.

5. EXTERNAL OUTPUT

Earphone jack : $\phi 3.5$ mm monophonic-type jack

6. POWER SOURCE

1.5 V AAA dry battery (R03C, LR03, L30), 2 pcs.

7. OVERALL DIMENSIONS AND WEIGHT

100 (W) x 60 (H) x 19 (D) mm, approx. 90 g

8. ACCESSORY

1.5 V AAA dry battery for checking purpose

- * The design and specifications are subject to change without prior notice for product improvement.