



Millenium

RW500
Rhythmpumper
metronome

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Table of contents

1	General information	4
	1.1 Further information.....	5
	1.2 Notational conventions.....	6
	1.3 Symbols and signal words.....	7
2	Safety instructions	9
3	Features	13
4	Connections and operating elements	14
5	Operating	20
6	Technical specifications	26
7	Protecting the environment	27

1 General information

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

1.1 Further information

On our website (www.thomann.de) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

Instructions


The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

Example:

1. ▶ Switch on the device.
2. ▶ Press *[Auto]*.
 - ⇒ Automatic operation is started.
3. ▶ Switch off the device.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

This device sets rhythm and tempo for musicians. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



CAUTION!

Possible hearing damage

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment.

Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.



NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.



NOTICE!

Risk of fire due to incorrect polarity

Incorrectly inserted batteries may destroy the device or the batteries.

Ensure that proper polarity is observed when inserting batteries.



NOTICE!

Possible damage by leaking batteries

Leaking batteries can cause permanent damage to the device.

Take batteries out of the device if it is not going to be used for a longer period.



NOTICE!

Possible staining

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

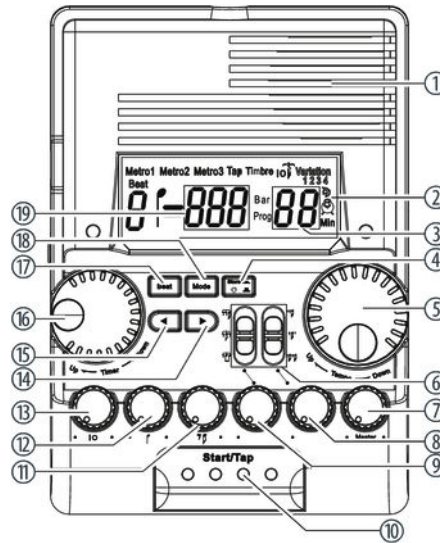
In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

3 Features

- Adjustable tempo range: 30 - 280 BPM
- Separate volume control for quarter, eighth, sixteenth notes and triplets as well as the first bar
- Illuminated display
- Two-coloured LED bar indicator
- Timing function adjustable from 0 to 90 minutes
- Start, Stop and Tap buttons
- Voice output
- 30 memory locations for bar / tempo
- Line out socket
- Stereo headphones output
- Mounting option on cymbalholder
- Remote control connector e. g. for a foot switch (not supplied)
- Connector for an optional power supply (not supplied)

4 Connections and operating elements

Front panel

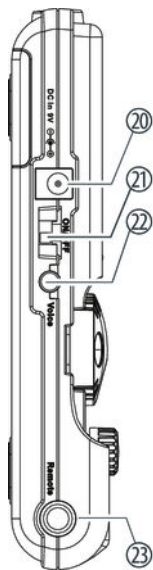


1	Internal speaker.
2	Display.
3	Bar or programme display.
4	Store / display illumination.
5	<i>[Tempo]</i> . Tempo control.
6	Rhythm select switches.
7	<i>[Master]</i> Overall volume control.
8	Volume control for sixteenth notes.
9	Volume control for triplets.
10	<i>[Start / Tap]</i> Button to start / stop playback or for tapping the tempo.

11	Volume control for eighth notes.
12	Volume control for quarter notes.
13	IO Volume control for the first bar.
14	▶ Programme selection up or pitch adjustment (Timber) or to select the number of bars per pattern (Variation).
15	◀ Programme selection down or pitch adjustment (Timber) or to select the number of bars per pattern (Variation).
16	<i>[Timer]</i> Control to adjust the time span for which the tempo runs in the time signature before it shuts down.
17	<i>[Beat]</i> Button to set the time signature.

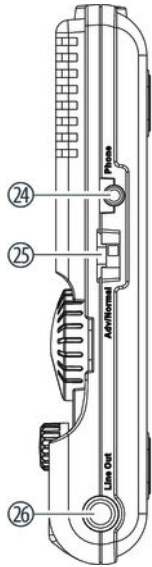
- | | |
|----|---|
| 18 | <i>[Mode]</i>
Toggles between metronome sounds (norm. mode) or between Timber and Variation (advanced mode). |
| 19 | Tempo display. |

Left side



- | | |
|----|--|
| 20 | Connector for an external power supply (not supplied). |
| 21 | On / off switch. |
| 22 | Voice output on / off. |
| 23 | Connector e. g. for a foot switch (not supplied). The switch then controls the Start / Tap function. |

Right side



24 Headphones socket.

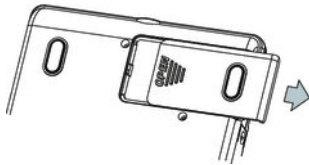
25 Toggles normal / advanced mode.

26 Line output.

5 Operating

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Inserting / changing the battery



1. ➤ Remove the battery compartment cover.
2. ➤ Insert the supplied battery.
3. ➤ Replace the battery compartment cover.

On battery operation, if 'Bat Lo' lights up shortly after turning on, the battery must be changed. In case the battery discharges during operation, the 'Bat Lo' display will flash. Then replace the exhausted battery according to the above-mentioned steps with a fresh one.

**External power supply
(optional)**

You can also operate the device with an external mains power adaptor (not supplied). The mains adaptor must provide DC 9 V with 500 mA and transfer the positive pole via the middle pin (⊖—●—⊕).

Mode selection

Use the *[Adv/Normal]* switch to toggle between Normal and Advanced mode.

Normal mode:

1. ➤ Press *[Beat]* to set the desired time signature.
2. ➤ Use the rotary control *[Tempo]* to adjust the desired tempo which is then shown in the display.
3. ➤ Press *[Start / Tap]* to start or stop the metronome.
 - ⇒ Two LEDs act as bar indicator. The red LED indicates the first beat, the green one all others.
4. ➤ Press *[Mode]* to select various metronome sounds. Metro1 and Metro2 are fixed but you can change the sound of Metro3.
5. ➤ With *[Voice]* you can turn the voice output on and off.
6. ➤ Briefly press *[Store]* to save the set values in a programme. To select the programme memory location use ◀ and ▶.
7. ➤ Keep *[Store]* pressed to turn the backlight on or off.
8. ➤ To enter the tempo via *[Start / Tab]* or a footswitch connected to *[Remote]*, use *[Mode]* to select the 'Tap' mode. Press *[Start / Tap]* (or the foot switch) in the desired tempo.
 - ⇒ Then the device detects time measure and tempo (30 - 280 BPM). If the tempo is above 280 BPM, the display shows 'Hi'. If the tempo is below 30 BPM, 'Lo' is displayed.

9. ▶ Use the rotary control [*Timing*] to set the time span for which the tempo runs in the time signature before it shuts down. The preset time is 45 min. The display shows the value in minutes.

Mode for advanced users:

This mode adds two functions: Timber (tone pitch setting) and Variation (rhythm editing).

Timber mode

1. Use *[Mode]* to select the Timber mode.
2. Press *[Store]* to successively enable \uparrow , \downarrow , \leftarrow and \rightarrow . Simultaneously, the current tone is displayed.
3. Use \leftarrow and \rightarrow to change the tone. On each change the new sound is played briefly.

Variation mode

1. Use *[Mode]* to select the Variation mode. In this mode you can store four different patterns.
2. Press *[Store]* to view the current settings or to store the changes.
3. Use *[Beat]* to select the rhythm, use *[Tempo]* to select the tempo.
4. With \leftarrow and \rightarrow you can change the number of bars of the individual patterns. If you need, e.g. only two patterns set the number of bars of pattern 3 and 4 to 00.
5. Press *[Start / Tap]* to start the programmed bar sequence. Press *[Start / Tap]* again to stop the playback.

Adjustable rhythms:

Rhythm point Rhythm type	♩	♩♩	♩♩♩	♩♩♩♩	♩♩♩♩♩	♩♩♩♩♩♩	♩♩♩♩♩♩♩	♩♩♩♩♩♩♩♩
♩	●	×	×	×	×	×	×	×
♩♩	●	●	×	×	×	×	×	×
♩♩♩	×	●	×	×	×	×	×	×
♩♩♩♩	●	×	×	×	●	×	×	×
♩♩♩♩♩	●	×	●	×	×	×	×	×
♩♩♩♩♩♩	●	×	×	●	×	×	×	×
♩♩♩♩♩♩♩	×	×	●	×	×	×	×	×
♩♩♩♩♩♩♩♩	×	●	×	×	×	×	×	×
♩♩♩♩♩♩♩♩♩	●	●	×	×	×	●	×	×
♩♩♩♩♩♩♩♩♩♩	●	×	×	×	×	×	×	●
♩♩♩♩♩♩♩♩♩♩♩	●	●	×	×	×	×	●	×
♩♩♩♩♩♩♩♩♩♩♩♩	×	●	×	×	×	×	●	×
♩♩♩♩♩♩♩♩♩♩♩♩♩	●	×	×	×	×	×	●	×
♩♩♩♩♩♩♩♩♩♩♩♩♩♩	●	×	×	×	×	×	×	×
♩♩♩♩♩♩♩♩♩♩♩♩♩♩♩	×	×	×	×	×	×	×	●
♩♩♩♩♩♩♩♩♩♩♩♩♩♩♩♩	×	×	×	×	×	×	●	×
♩♩♩♩♩♩♩♩♩♩♩♩♩♩♩♩♩	×	×	×	×	×	×	×	×

6 Technical specifications

Voltage supply	9 V battery or external power supply 9 V, 500 mA $\overline{\text{---}}$	
Tempo deviation	At playback:	< 0.1 %
	At tempo measurement:	< 1 %
Dimensions (W × H × D)	116 mm × 165 mm × 32 mm	
Weight	290 g (incl. battery)	

7 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are fed to a recovery. Please follow the notes and markings on the packaging.

Disposal of batteries



Batteries must not be disposed of as domestic waste or thrown into fire. Dispose of the batteries according to national or local regulations regarding hazardous waste. To protect the environment, dispose of empty batteries at your retail store or at appropriate collection sites.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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