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› [Tetra-Teknica](#) /

› Tetra-Teknica Essential Series EMT-800 Digital Metronome, Tuner, and Tone Generator User Manual

## Tetra-Teknica EMT-800

# Tetra-Teknica Essential Series EMT-800 Digital Metronome, Tuner, and Tone Generator User Manual

## INTRODUCTION

The Tetra-Teknica Essential Series EMT-800 is a versatile 3-in-1 digital device combining a metronome, instrument tuner, and tone generator. Designed for musicians of all levels, it offers precise timing and accurate tuning capabilities in a compact form factor. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance of your device.

## PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Tetra-Teknica EMT-800 3-in-1 Digital Metronome, Tuner, and Tone Generator
- 1 x INPUT cable with clamp
- 2 x AAA batteries



Image: The EMT-800 device, clip-on input cable, and two AAA batteries as included in the package.

## PRODUCT FEATURES

- **3-in-1 Functionality:** Combines a digital metronome, instrument tuner, and tone generator with a large LCD display.
- **Metronome Mode:** Offers a tempo range of 30-260 beats per minute (BPM), 0-9 beats per measure, and 9 distinct rhythms. Features adjustable sound volume.
- **Tuner Mode:** Supports 5 tuning modes: Chromatic, Guitar, Bass, Ukulele, and Violin. Pickup range from A0 (27.5Hz) to C8 (4186Hz). Adjustable tuning calibration from 430-450Hz with a precision of  $\pm 0.5$  cent. Includes an INPUT cable with clamp for direct instrument connection.
- **Tone Generator Mode:** Easily activated by pressing the SOUND button while in tuner mode.
- **Power Management:** Operates on 2 AAA batteries (included). Features an automatic shut-off function after 3 minutes of no sound detection in tuner mode to conserve power.

## DEVICE LAYOUT AND CONTROLS



Image: Front view of the EMT-800 with labeled buttons and display.

The EMT-800 features an intuitive layout for easy operation:

- **LCD Display:** Shows tuning information, metronome settings, and mode indicators.
- **MIC:** Built-in microphone for acoustic instrument tuning.
- **Speaker:** Outputs metronome clicks and tone generator sounds.
- **Power Button ( ):** Turns the device on/off.
- **M/T Button:** Toggles between Metronome and Tuner modes.
- **▲ / ▼ Buttons:** Used to adjust values (Tempo, Pitch, Beat, Rhythm, Tone).
- **ITEM Button:** In Tuner mode, selects instrument tuning type (Chromatic, Guitar, Bass, Ukulele, Violin).
- **PITCH Button:** In Tuner mode, adjusts the calibration frequency (A4).
- **SOUND Button (♪):** In Tuner mode, activates the Tone Generator. In Metronome mode, selects rhythm patterns.
- **BEAT Button:** In Metronome mode, selects the number of beats per measure.
- **TEMPO Button:** In Metronome mode, allows adjustment of the tempo.
- **VALUE Button:** Used in conjunction with ▲ / ▼ buttons to change values.



Image: Side view of the EMT-800, highlighting the INPUT jack and volume control slider.

- **INPUT Jack:** 6.35mm (1/4 inch) input for connecting the included clamp pickup cable or an instrument directly.
- **Volume Slider:** Adjusts the output volume of the metronome and tone generator.



Image: Back view of the EMT-800, showing the integrated metal kickstand for upright positioning.

- **Kickstand:** A foldable metal stand on the back allows the device to be propped up for better viewing.

## SETUP

### 1. Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open.
3. Insert two AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

### 2. Connecting the Pickup Cable (Optional for Tuner Mode)

For direct and accurate tuning, especially in noisy environments, use the included pickup cable:

1. Insert the 6.35mm (1/4 inch) plug of the pickup cable into the INPUT jack on the side of the EMT-800.
2. Attach the clamp to the headstock of your instrument (e.g., guitar, violin). Ensure a secure connection for optimal signal detection.



Image: The EMT-800 connected to a guitar via its clip-on pickup cable for tuning.

## OPERATING MODES

### 1. Metronome Mode

To use the metronome function:

1. Press the **Power Button** ( ) to turn on the device.
2. Press the **M/T Button** until the device is in Metronome mode (indicated on the display).
3. **Adjusting Tempo:** Press the **TEMPO Button**, then use the **▲ / ▼ Buttons** to set the desired tempo (30-260 BPM).
4. **Adjusting Beat:** Press the **BEAT Button**, then use the **▲ / ▼ Buttons** to select the number of beats per measure (0-9).

- 5. **Adjusting Rhythm:** Press the **SOUND Button** (🔊), then use the **▲ / ▼ Buttons** to choose from 9 available rhythm patterns.
- 6. **Adjusting Volume:** Use the **Volume Slider** on the side of the device to set the desired sound level.
- 7. The metronome will start automatically once settings are applied.

2. Tuner Mode

To tune your instrument:

- 1. Press the **Power Button** (🔌) to turn on the device.
- 2. Press the **M/T Button** until the device is in Tuner mode (indicated on the display).
- 3. **Selecting Tuning Mode:** Press the **ITEM Button**, then use the **▲ / ▼ Buttons** to select your instrument type: Chromatic (C), Guitar (G), Bass (B), Ukulele (U), or Violin (V).
- 4. **Adjusting Calibration (Pitch):** Press the **PITCH Button**, then use the **▲ / ▼ Buttons** to set the A4 calibration frequency (430-450Hz). The standard is 440Hz.
- 5. **Tuning Your Instrument:** Play a single note on your instrument. The display will show the detected note and a needle/indicator showing if the note is flat, sharp, or in tune. Adjust your instrument's tuning pegs until the indicator is centered and the display shows the correct note.
- 6. The device can detect sound via its built-in microphone or through the connected INPUT cable with clamp.

3. Tone Generator Mode

To generate a reference tone:

- 1. Ensure the device is in **Tuner Mode**.
- 2. Press the **SOUND Button** (🔊). The device will now generate a continuous tone.
- 3. Use the **▲ / ▼ Buttons** to cycle through different notes (e.g., C, C#, D, etc.).
- 4. Adjust the **Volume Slider** on the side to control the tone's output level.
- 5. To exit Tone Generator mode, press the **SOUND Button** (🔊) again.

SPECIFICATIONS

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Item Model Number     | EMT-800                                                      |
| Item Weight           | 2.8 ounces                                                   |
| Product Dimensions    | 4 x 0.7 x 2.5 inches                                         |
| Metronome Tempo Range | 30-260 BPM                                                   |
| Beats Per Measure     | 0, 1, 2, 3, 4, 5, 6, 7, 8, 9                                 |
| Rhythms               | 9 types                                                      |
| Tuning Modes          | Chromatic (C), Guitar (G), Bass (B), Ukulele (U), Violin (V) |
| Tuning Range          | A0 (27.5Hz) – C8 (4186Hz)                                    |
| Calibration Range     | 430Hz – 450Hz                                                |
| Tuning Precision      | ±0.5 cent                                                    |
| Power Source          | 2 x AAA batteries                                            |

MAINTENANCE

Proper care will extend the life of your EMT-800:

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or abrasive materials.
- **Battery Replacement:** Replace batteries when the display dims, the sound becomes weak, or the device stops functioning correctly. Always replace both batteries at the same time.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage. Store the device in a dry place, away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts, as this may damage internal components.

## TROUBLESHOOTING

If you encounter issues with your EMT-800, refer to the following common solutions:

- **Device does not power on:**
  - Check if the batteries are inserted correctly with the right polarity.
  - Replace with fresh AAA batteries.
- **Tuner is inaccurate or not detecting sound:**
  - Ensure the correct tuning mode (Chromatic, Guitar, etc.) is selected for your instrument.
  - If using the built-in microphone, ensure the instrument is close to the device and there is minimal background noise.
  - If using the pickup cable, ensure it is securely connected to both the device and the instrument.
  - Check the A4 calibration setting (PITCH button) and adjust if necessary.
- **Metronome sound is too low or absent:**
  - Adjust the Volume Slider on the side of the device.
  - Ensure the device is in Metronome mode.
- **Display is dim or flickering:**
  - This usually indicates low battery power. Replace the AAA batteries.

## WARRANTY AND SUPPORT

The Tetra-Teknica EMT-800 comes with a **3-year manufacturer warranty**. For warranty claims or technical support, please refer to the contact information provided on your warranty card or visit the official Tetra-Teknica website. Please retain your proof of purchase for warranty validation.

### ASK A QUESTION ABOUT THIS MANUAL

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### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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