



Dear Crescendo Customer,

Thank you for choosing the Crescendo ZenStrobe! Because the ZenStrobe is a true strobe, it is super accurate, allowing you to tune your instrument to within +/- .1 cent. We are proud to offer you this quality product.

We don't like to read manuals either, but it helps to become familiar with the ZenStrobe. If you have questions, you can email us at [support@crescendomusicgear.com](mailto:support@crescendomusicgear.com).

**⚠ CAUTION**

1. The tuner can malfunction under the following conditions:
  - ❖ Exposure to the sun for a long period of time
  - ❖ High temperature or humidity
  - ❖ Dirty environment
  - ❖ Close to a strong magnetic current
2. The ZenStrobe includes a standard CR2032 (3V) battery. Replace the battery when the display becomes dim or the tuner does not seem to be working properly. When the tuner is not in use for a long time, remove the battery to avoid any leakage.
3. Use a clean, soft, dry cloth to clean the product. Never use water or chemicals to clean the tuner.

## DISPLAY / FUNCTIONS

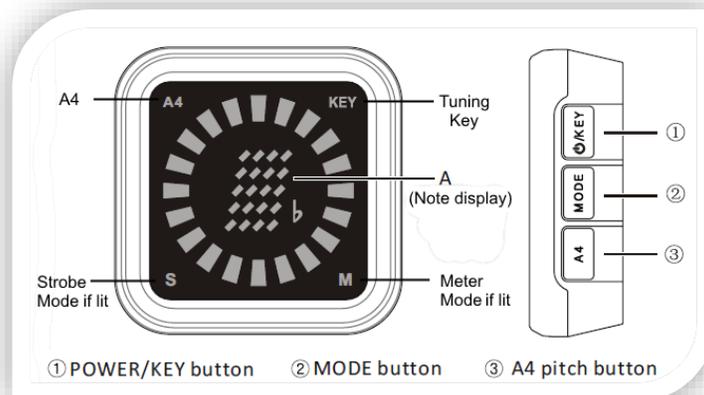


Figure 1.

## TUNER OPERATION

Please refer to Figure 1 for the settings described below.

### 1. Power On/Off

Press button ① for two seconds to turn the power on/off. A blinking row of lights and “S” will be lit. When there is no signal, the tuner will show just a blinking row of lights. If there has been no signal after about 3 minutes, the tuner will shut off automatically.

### 2. How To Tune

The ZenStrobe has two tuning modes: chromatic strobe mode and meter mode. When the “S” LED is lit, the strobe mode is activated. This is the default mode and will give the most accurate tuning. When the “M” LED is lit, then the tuner is in meter mode. Meter mode is easy to use and will provide a quick accurate tuning. To change tuning mode, press button ② for 2 seconds. Press button ② again for 2 seconds to switch back. These modes are explained below.

The ZenStrobe works by picking up the vibration of the instrument. It must be clipped on to the instrument so that it can pick up the vibrations. Because the vibration tuner is not affected by ambient room noise, it is the ideal tuner for use in a noisy environment.

The default settings should work for most applications, but if necessary, make your desired setting changes described elsewhere in these instructions, and clip the ZenStrobe onto your instrument; for instance, on the headstock of a guitar.

### True Strobe Tuning

The true strobe works by displaying the interference between a reference frequency (pitch) and the instrument’s signal input. Play a note and observe the rotary interface. The note being played will be displayed. The direction of the rotation indicates whether the note is flat or sharp. If the rotary interface is spinning clockwise, the note is sharp (Figure 2). If the rotary interface is spinning counter-clockwise, the note is flat. The further out of tune, the faster the interface spins. Tune the instrument so that the interface slows down and eventually stops. You may find it does not stop perfectly, but once it is moving very slowly or stops, it is in tune. Sometimes it is helpful to start flat in order to see the spinning of the tuner and how it slows down as it approaches being in tune. This process may take a little time to master, but once you master it, your instrument will always be perfectly in tune. The reference frequency generated by the internal generator is calibrated at the factory to maintain a precision of +/- .1 cent!

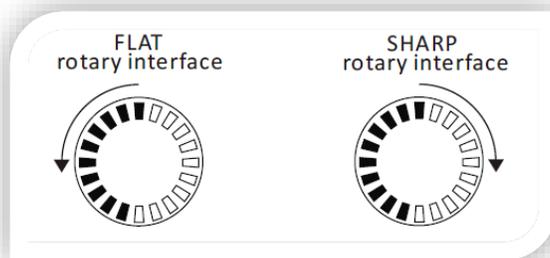


Figure 2.

### Meter Mode

Meter mode works similar to a needle-type meter. Tune your instrument so that the green LED is in the center of the meter interface. The tuning LED will be to the right of center if the note is sharp, and to the left of center if the note is flat. See Figure 3 which shows the meter when it is in tune.

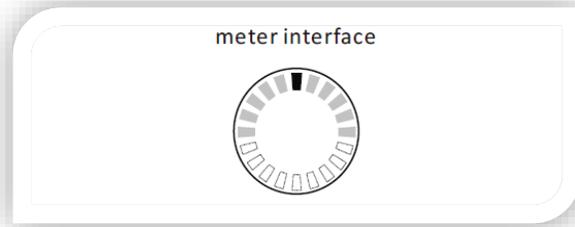


Figure 3.

### 3. Key Setting

The default key is C and will be used for the majority of your tuning needs. However, other key settings are also supported. The available key settings are C, B $\flat$ , E $\flat$ , and F.

To set the tuning, press button ③ (A4) for 2 seconds while powered on, and the A4 LED will flash. Then press button ① and the key LED and the current key setting will flash on the display (A). Press button ② to change the tuning key. Once you have found the desired value, press button ① for 2 seconds. This will save the value and return the tuner to normal operation. When the tuning is set to anything other than C, the "KEY" LED will light.

### 4. A4 Pitch Calibration

A4 pitch calibration is an advanced function. The default and recommended setting is 440.0 Hz. A4, or A440, is a generally accepted tuning standard in most countries. However, the ZenStrobe can adjust the A4 frequency in .1 Hz increments from 420.0 Hz to 459.9 Hz if necessary. Press button ③ (A4) for 2 seconds while powered on, and the A4 LED will flash and the default setting of 4 will display. Press button ③ to scroll through the setting, and you will notice that it shows 4, 0, a decimal (.) and 0 (40.0 altogether). Use button ② to change each digit anywhere from 20.0 to 59.9 in .1 increments. Once you have the desired value, press button ③ for 2 seconds to save it and return to normal operation. When the reference pitch has been set to anything other than 440.0 Hz (40.0), the "A4" LED will light.

## BATTERY INSTALLATION AND REPLACEMENT

The ZenStrobe uses a CR2032 battery (included) for power to the tuner. When the ZenStrobe does not work properly and/or the display becomes dim, first try to "reseat" the battery by taking it out and reinserting it according to Figure 4. If the tuner still does not work properly, replace the battery. Take care to insert the battery correctly according to the polarity indicated in Figure 4. If you will not be using the ZenStrobe for a long period of time, take the battery out in order to preserve the life of the battery and prevent possible leakage.

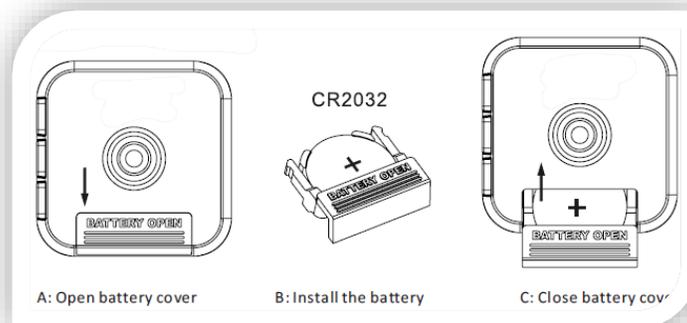


Figure 4.

## SPECIFICATIONS

<b>Display</b>	LCD Color
<b>Power Source</b>	CR2032 (3V) button battery
<b>Auto Shut-Off</b>	The unit will shut off automatically after 3 minutes of receiving no signal.
<b>Tuning Range</b>	A0 ~ C8
<b>Key Settings</b>	C, B $\flat$ , E $\flat$ , and F
<b>Tuning Modes</b>	True strobe mode and meter mode
<b>Tuning Accuracy (True Strobe Mode)</b>	+/- .1 cent
<b>Tuning Accuracy (Meter Mode)</b>	+/- 1 cent
<b>A4 Calibration Range</b>	420.0 Hz ~ 459.9 Hz with .1 Hz steps
<b>Sound Detection</b>	Vibration sensor
<b>Dimensions</b>	41 mm (W) x 41mm (H) x 13mm (D)
<b>Weight</b>	Approx. 40 g (including battery)

## INSTRUMENT NOTES TABLE

1. Chromatic notes table:

C	D $\flat$	D	E $\flat$	E	F	G $\flat$	G	A $\flat$	A	B $\flat$	B
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2. Guitar notes table:

7B	6E	5A	4D	3G	2B	1E
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3. Bass notes table:

LB	4E	3A	2D	1G	HC
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4. Violin notes table:

4G	3D	2A	1E
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5. Ukulele notes table:

4G	3C	2E	1A	Key C
4A	3D	2F $\sharp$	1B	Key D

Specifications subject to change without prior notice.

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