

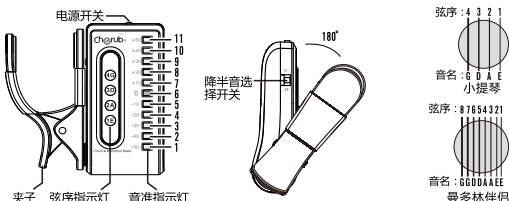


## WST-550VM 小提琴/曼多林夹式校音器

# 使用说明书

感谢您购买小天使WST-550VM小提琴/曼多林伴侣。在您首次使用本产品前，请花几分钟时间阅读一下本说明书，以便迅速掌握其使用方法。

### 产品界面



**警告：** 夹子旋转仅限于180度，如超过则会造成损坏。

### 产品特点

WST-550VM是为小提琴/曼多林设计的校音器，体积小，而且不受外界噪声的干扰，适合在各种环境中使用。它的使用极为方便，只有两个控制键，一个是电源开关，另一个是降半音选择开关，在各种环境下使用时都能明确地指示弦序音名和音分偏差。

- 为小提琴/曼多林设计，可清晰地显示弦序、音名及音分偏差。
- 体积小，方便携带。
- 仅有2个按键，方便操作。
- 振动拾音，不受外界噪音干扰，校音快速准确。
- CR2032电池供电。
- 2分钟无操作或信号输入自动关机。

### 操作说明

1. 将“电源开关”拨到“ON”的位置，开启电源，这时6号灯亮成红色。
2. 转开固定夹，夹在琴头上，旋转至一定的角度，以方便观察，如右图。
3. 拨动待测弦，在“弦序指示灯”位置会亮灯指示弦序，在“音准指示灯”位置会亮灯指示音分偏差，这时首先检查指示的弦序与实际拨的弦序是否一致；如果指示的弦序高于拨动的弦序，说明音偏低，应将该弦旋紧使之一致；如果指示的弦序低于拨动的弦序，则说明音偏高，应将该弦旋松使之一致。在指示的弦序与实际拨动的弦序一致时，再看音准指示灯，如果指示负音分，则说明音偏低，应将弦稍稍旋紧；如果指示正音分，则说明音偏高，应将弦稍稍放松。轻微旋动弦钮，使音分指示灯指向6号灯0音分位置，这时6号灯变成绿色，说明音已经调准了。
4. 用上面第3条所述方法依次调准其它弦的音高。有些小提琴/曼多林的柄在收到了弦的拉力后会稍稍缩短，这使原先已调准的弦又会稍稍变松使音稍稍变低，因此，应该用上面第3条所述方法多次轮流调教各弦，直至音准。
5. 大多数情况下，“降半音选择开关”应拨向还原音“ $\flat$ ”的位置，这时用本产品调校的各弦的音高就是“弦序音名图”所示的标准音高。在有些场合下，需要将小提琴/曼多林的每根弦降一个标准半音，这时只要将“降半音选择开关”拨向降半音“ $\flat$ ”的位置，用上面第3条、第4条所述的方法调校吉他即可。



### 电池安装

当显示变暗时，请更换电池，更换方法见右图：



1. 更换电池时，请注意电池的极性。
2. 若要长期放置产品，请把电池取出。



### 技术规格

- 校音范围：A<sub>2</sub>(110.0Hz)-G<sub>5</sub>(783.9Hz)
- 校音项目：小提琴，曼多林
- 校音精度：±1音分
- A4：440Hz
- 校音方式：夹式
- 降半调： $\flat$
- 显示模式：LED灯显示
- 电源：3V (CR2032) 锂电池
- 体积：60(L)×54(W)×17(H)mm
- 重量：20g

\* 技术规格如有变更，恕不另行通知。

### 注意事项

- 使用环境：
  1. 避免在高温、潮湿、零下等恶劣的环境中。
  2. 避免在强光下使用。
- 请勿自行拆卸本机。
- 请保存好本手册以便以后查阅。

### 随机附件

- 操作说明书
- 3V(CR2032)锂电池
- 合格证

### 有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于2007年3月1日以后本公司所制造的产品。

### 环保使用期限



此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在制造日起的规定的期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。

### 产品中有毒有害物质或元素的名称及含量

部件名称	有害有毒物质或元素					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳(壳体)	×	○	○	○	○	○
电子部件(印刷电路板等)	×	○	×	○	○	○
附件(电源线、交流适配器等)	×	○	○	○	○	○

○：表示该有害有毒物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规范的限制要求以下。

×：表示该有害有毒物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限制要求。因根据现有的技术水平，还没有什么物质能够代替它。

### 质量承诺

亲爱的小天使用户，在您使用本产品时，请仔细阅读产品说明书，当您有疑问和困难时，请拨打售后服务热线：400-990-9866

- 一周内出现质量问题可退货退款
- 一月内出现质量问题可调换
- 一年内出现质量问题可免费维修
- 终身享有咨询和维修服务

\* 请向销售商索取有效购买凭证并予以保存。

### 换修政策

#### 一、包换政策：

1. 消费者自购机之日起1个月之内，在正常使用情况下，出现非人为的产品性能故障，且产品外观及包装保持完好的可向所购机的经销商换机。
2. 消费者在换机时应出示由经销商开出的购机收据及保修卡，否则经销商可以不予更换。

#### 二、保修政策：

产品在购买之日起1年内，可免费享有维修服务；对于超过1年的产品及人为或不可抗力因素造成损坏的产品，我司可提供有偿维修服务。

售后服务地址：

制造商：珠海市蔚科科技开发有限公司

广东省珠海市高新区唐家湾镇科技九路10号

制造商地址：广东省珠海市高新区唐家湾镇科技九路10号

珠海市蔚科科技开发有限公司 售后服务部

邮箱：mail@cherubtechnology.com

邮编：519085

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www.cherub.cn

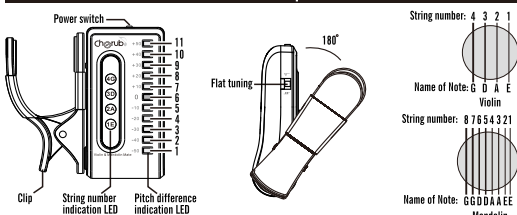
中国制造



# WST-550VM Violin&Mandolin Mate Owner's Manual

Thank you for selecting the Cherub WST-550VM Violin&Mandolin Mate. Please read this manual carefully to make sure that you are using it correctly.

## Product Description



**WARNING:** The clip can be only turned 180 degrees, over turning will cause damage to the tuner.

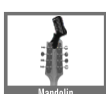
## Features

The WST-550VM is designed specifically for Violin and Mandolin tuning. Your new tuner is packed with useful features:

- Small, portable design let's you take it anywhere.
- Works by vibration, allowing accurate tuning despite ambient noise.
- Easy operation with only two control switches: one for power, one for flat tuning.
- Auto-detect function displays string number and name of the note.
- Easy-to-read LED lights show you which way to tune.
- Auto-off function shuts off WST-550VM if no input signal is detected for 2 minutes.
- CR2032 Lithium Battery included.

## Operation Instruction

1. Turn on your WST-550VM by setting the power switch to "ON" position. The No. 6 LED(in the middle) will turn red.
2. Clip your WST-550VM to the headstock of your Violin/Mandolin and adjust it to an easy-to-read position.
3. Lightly pluck the string you wish to tune. The WST-550VM will automatically detect the current pitch, indicate which string you are tuning and indicate the note with the LED lights on the left. A difference in pitch will be indicated by the LED lights on the right(No. 1 to 11).
4. If the pitch is more than 50 cents sharp, the LED No. 11 will light. If the pitch is more than 50 cents flat, LED No.1 will be lit.
5. Make sure the LED on the left correctly indicates the string you are tuning. For instance, if you are tuning the third string and the LED indicates "2A", then the string is too tight and you should loosen it. If the LED indicates "4G", your string is too loose and you should tighten it.
6. When the LED on the left correctly indicates the string you are tuning, fine tune the string using the LED display on the right, Loosening or tightening the string as needed. The string will be in tune when the LED No.6 turns green.
7. After getting all the strings in tune, go back and double check each one. You may find some of the strings are slightly flat. As you tune-up, pressure from the strings naturally bends the Violin/Mandolin neck by a very small amount. This makes some of strings which you have just tuned slightly loose again. Tuning all the string in order two or three times is a good way to solve the problem.
8. For standard tuning, the flat tuning switch is set to "n" (natural). In some situations, you may need to tune your Violin&Mandolin down one half-step or semitone. To do this, simply set the semitone tuning switch to the "b" position for tuning.



## Installing the battery

When the battery charge is low, the LCD will become dim. Please replace the battery as soon as possible.



**NOTE:**

1. Pay attention to polarity when replacing battery.
2. Remove the battery if the product will not be used for a long period.

## Specifications

- Tuning range: A<sub>2</sub>(110.0Hz)~G<sub>5</sub>(783.9Hz)
  - Tuning mode: Violin, Mandolin
  - Tuning precision:  $\pm 1$  cent
  - Flat:  $\flat$
  - A4 range: 440Hz
  - Detection method: Clip
  - Display mode: LED Display
  - Tuning method: Auto
  - Power supply: 3V(CR2032)Lithium battery
  - Dimensions: 60(L)x50(W)x17(H)mm
  - Weight: 20g
- \*Specification may change without notice.

## Precautions

- Environment:
  1. Do NOT use the tuner in high temperature, or high humidity, or subzero environments.
  2. Do NOT use the tuner in the direct sunlight.
- Please do NOT disassemble the tuner by yourself.
- Please keep this manual for future reference.

## Accessories

- Owner's manual
- 3V(CR2032)Lithium battery

## THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or 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 measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## CE mark for European Harmonized Standards

CE Mark which is attached to our company's products of Battery mains the product is in fully conformity with the harmonized standard(s) EN 61000-6-3:2007+A1:2011 & EN 61000-6-1:2007 Under the Council Directive 2004/108/ EC on Electromagnetic Compatibility.

