

印刷内容详见第2、3、4页

技术规格说明:

- 1) 此说明书为单页双面印刷
- 2) 尺寸: 260X195mm

版本说明:		历史	——
说明:		历史	——
* V4版		历史	V1
增加了折法图		历史	V2
* 展开尺寸: 260mm(长)×195mm (宽)		历史	V3
* 装订: 对折			
* 折后尺寸: 130mm(长)×195mm (宽)			
* 双面印刷			
* 印刷内容详见电子文档			
* 材料: 80g书写纸			
* 印前请送样确认			

日期	10-03-18	名称	T-23中英文说明书v4.cdr		料号		版本	V4
设计		文件名	T-23中英文说明书V4.cdr		光盘号	——	材料	80克书写纸
审核		单位	毫米(mm)	尺寸公差:±0.1mm	丝印颜色	黑色	图号	
标准化		 深圳市蔚科电子科技有限公司 CHERUB TECHNOLOGY COMPANY LIMITED					密级	普通
批准							第(1)页, 共(4)页	

祝贺您拥有musedo系列T-23校音器，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。

一、安全注意事项

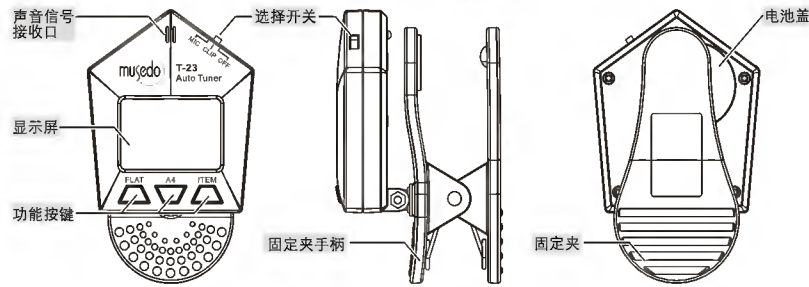
主机使用须知

- 请勿用酒精、汽油及其他强烈化学清洁剂擦拭屏幕或机壳。
- 请勿用力挤压或敲击机壳，否则会导致屏幕破裂、机器无法操作等故障。

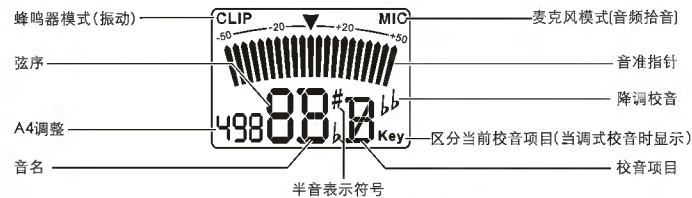
电池使用须知

- 装入电池时请先确认电池放入方向
- 长时间不使用机器时请将电池取出
- 装入电池后若出现异常现象或显示，请将开关选择至“OFF”位置后再重新开机
- 显示混暗时请更换新电池
- 废旧电池请勿当作普通垃圾随意丢弃

二、操作面板功能位置及说明



三、显示界面及功能介绍



四、校音器操作方法

1、开机并选择校音器拾音方式(将拨动开关拨至“CLIP”或“MIC”处，以选择校音器的音频信号拾取方式)。

拨至“CLIP”处时：校音器处于振动检测状态，此状态只用于对乐器发声时振动频率的检测。

1. 此功能适用于校音场所的噪音干扰较大时，可防止校音器误检测
2. 使用此状态校音时，请利用机器自身的拾音夹固定于乐器或琴体上，以确保本校音器良好拾取该乐器的振动信号。（以不影响演奏及乐器发音为准）

拨至“MIC”处时：校音器处于声音检测状态，此状态用于乐器发声时的频率检测。

1. 当被校乐器无法（不易）固定本校音器时，请选择此功能。
2. 使用此状态校音时，请确保校音场所无噪音干扰，以便您更好的完成乐器的音准调试过程。

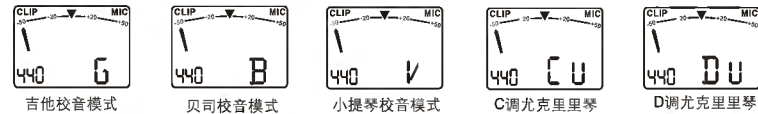
2、校音项目选择：开机状态下按“ITEM”键可选择校音项目。

校音调整顺序及范围：(初始) C_{key} → F_{key} → B_{key} → E_{key} → G → B → V → Cu → Du (返回)

当设定校音项目为 C_{key}、F_{key}、B_{key}、E_{key} 时(调式校音)：C_{key} → 十二平均率校音
F_{key}、B_{key}、E_{key} → F(调)、B(调)、E(调)校音，适用于部分管乐的音准检测

在C、F、B、E调校音项目下校音检测时只显示该乐器的对应音名

当设定校音项目为G、B、V、Cu、Du时(乐器校音)：



在乐器校音项目下进行校音检测时，校音器显示该乐器的对应音名及弦序

3、校音中心频率调整 (A4调整)

按“A4”键可在430-450Hz范围内调整校音器的校音中心频率

校音器默认校音中心频率为“440”Hz，当调整数值大于默认中心频率时，被校乐器校音完毕后，该乐器所发之音的音准将整体偏高，反之则发之音准整体降低。

4、降调校音设置

G或B校音模式下按“FLAT”键可设定降小二度校音，再按该键将继续降小二度校音，再按则退出降调校音模式

此功能只能在以上两种校音项目内设置，其余校音项目模式按此“FLAT”键无效！

五、校音器使用

1. 将设定好的校音器靠近(固定)容易检测到乐器声音(振动)的位置。
2. 使乐器发音
3. 校音器自动进行音准判断
 - 当设定为调式校音内的校音项目时：校音器自动检测并显示该音的对应音名
 - 当设定为乐器校音内的校音项目时：校音器自动检测并显示该乐器的相应弦序及该音音名
4. 根据校音器判断的音准显示结果，调整乐器发音的音高。
 - A. 当自动显示的弦序音名与该乐器的实际对应弦序音名一致时，且音准指针指示中间“0”处，绿色背光灯亮表示该乐器音准确。
 - B. 当自动显示的弦序音名与该乐器的实际对应弦序音名一致，但红色背光灯亮或指针往上偏(+50方向)，指针刻度为音偏高的音分值，此时应小心将乐器的音高调低再次发音，反复调校使音准指针指示中间“0”处为止。若橙色背光灯亮或指针往下偏，调节方法与往上偏相反。
 - C. 当自动显示的弦序音名与该乐器的实际对应弦序音名不一致时，依声音高低规律调高或调低该乐器音，直至检测弦序音名与乐器音实际弦序音名相同，再按B方法调整则可校准该乐器音。

橙色背光灯亮时表示该音偏低，绿色背光灯亮时为该音以校准，红色背光灯亮时表示该音偏高)

六、随机包装附件

- 说明书
- 合格证
- 2032纽扣电池（一粒）

七、技术规格

- 校音项目
调式校音：C、F、B、E[♯]
乐器校音：G（吉他）、B（BASS）、V（小提琴）、Cu（C调尤克里里琴）、Du（D调尤克里里琴）
- 校音范围：A0(27.5Hz)~c3(1760Hz)
- 校音方式：自动校音
- 电源：3V（2032纽扣电池1粒）

八、更换电池的取出方法



打开电池盖后，请按此图示中箭头方向用指尖顶压电池边缘，此时电池将自动弹出。

USER'S MANUAL T-23

Congratulations on buying a new musedo Tuner, please read this manual carefully to make sure you are using it correctly

ONE. Notice for safety use

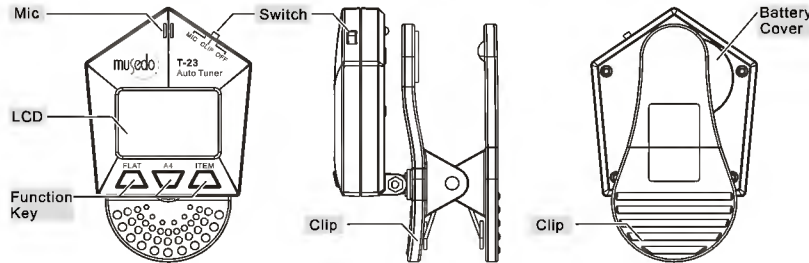
Overall

- Never use alcohol, petrol or other strong chemical detergent washing LCD or the body of the tuner;
- Please do not crush or strike the body of the tuner, otherwise its LCD can be broken or cause other malfunctions.

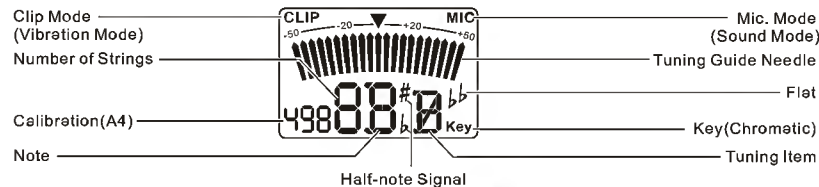
Battery Use

- Please pay attention to the polarity of the battery when putting in new battery; Take out of battery if the tuner will not be used for a long time;
- Please switch it off and turn it on again when the tuner does not show perfect working status;
- Replace with new battery when the LCD show is not clear;
- Please dispose of the used battery properly.

TWO. Appearance and Sketch



THREE. LCD Sketch



FOUR. Instructions

1. Choose between Clip Mode or Mic. Mode: (Move the switch to "CLIP" or "MIC" to choose a proper tuning mode, the tuner then will be turned on.)

A. Clip Mode: The tuner will detect the vibration of the instrument you are tuning.

- (1) The mode can be used for tuning in a noisy circumstance;
- (2) Clip the tuner onto one part of the instrument you are tuning. (Please make sure it will not affect playing the instrument and its sound)

B. Mic. Mode: The tuner will detect the sound of the instrument you are tuning.

- (1) The mode can be used for tuning an instrument onto which the tuner is not easily clipped.
- (2) Please make sure that you are using the mode in a quite ambient for a good tuning result.

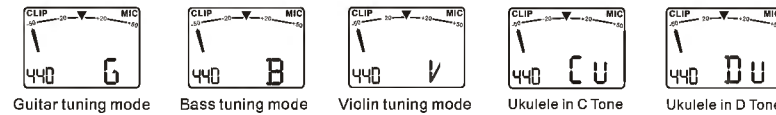
2 Choose Tuning Item (Press "Item" Key to choose a tuning item):

(Initially) C_{key} → F_{key} → B_{key} → E_{key} → G → B → V → Cu → Du

Under the tuning items: C_{key}, F_{key}, B_{key}, E_{key}, C_{key} → CHROMATIC
F_{key}, B_{key}, E_{key} → These "keys" are suitable for tuning some wind instruments respectively

Under key "C" "F", "B" and "E", the tuner will only show the note of the pitch respectively.

Under the tuning items: G, B, V, Cu, Du



Under these tuning mode, the tuner will show the note and the string number.

3. Adjust the calibration (A4)
Press "A4" key to adjust calibration (A4) from 430 Hz to 450 Hz.

Note: The initial "A4" is 440 Hz. When the calibration (A4) is higher than 440 Hz, the tuned note will be a little bit higher than that note tuned under a calibration (A4) of 440 Hz; When the calibration (A4) is lower than 440 Hz, the tuned note will be a little bit lower than that note tuned under a calibration (A4) of 440 Hz.

4. Flat tuning
Under "G" (guitar) or "B" (bass) tuning item, press "FLAT" key to enter into flat tuning: "b", lower down half-note tuning; "bb", lower down double half-note tuning.

Note: Pressing "FLAT" key under other tuning items has no effect.

FIVE. Operation Guide

1. Please put the tuner close to the instrument you wish to tune or clip onto it.
2. Make the instrument to give a pitch.
3. The tuner will detect the pitch and show the corresponding note automatically.
 - When the tuning items are C_{key}, F_{key}, B_{key}, E_{key}, the tuner will show the note of pitch.
 - When the tuning items are G, B, V, the tuner will show the note and the string number.
4. Adjust the instrument until it is in tune.
 - A. When the octave (string number) and note are the same as the correct ones, and the "Tuning Guide Needle" points to "0" in the middle, back-light turns green, then the pitch is in tune.
 - B. When the octave (string number) and note are the same as the standard ones, but the "Tuning Guide Needle" points to the right part of the metre (+50 direction), back-light turns red, then the pitch is higher than the standard pitch; On the contrary, if the "Tuning Guide Needle" points to the left part of the metre (-50 direction), back-light turns orange, then the pitch is lower than the standard pitch; so please adjust the instrument to make a little bit higher pitch until it is in tune.
 - C. When the octave (string number) is different from the correct one, please firstly adjust the instrument according to the sequence of relative octave (string number) in order to match the same octave (string number). Then tune the instrument referring to "B" instruction above.

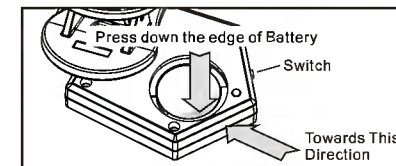
SIX. Accessories

- User's manual
- Certificate of QC pass
- 2032 cell battery (one piece)

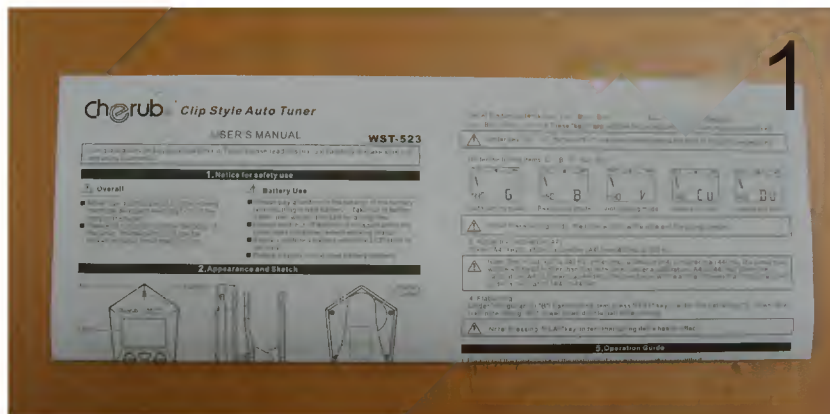
SEVEN. Specification

- Power: 3V 2032 cell battery (one piece)
- Tuning Item: C, F, B, E, G (guitar), B (bass), V (violin), Cu (Ukulele in C Tone), Du (Ukulele in D Tone)
- Tuning Range: A0 (27.5Hz) - a3 (1760Hz)
- Tuning way: automatically
- A4 Range: 430-450Hz

RIGHT. Replace Battery Guide



After opening the battery cover. Please press down the edge of battery as demonstrating direction. The battery will spring itself out automatically.



折法图同WST-523说明书