

Harley Benton

CTG-20 USB Clip Tuner

Quick Start Guide

This quick start guide contains important information on the safe operation of the product. Read and follow the safety advice and instructions given. Retain the quick start guide for future reference. If you pass the product on to others please include this quick start guide.

Safety instructions

Intended use

This device is intended for tuning musical instruments. 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.

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 from the product. They could swallow the pieces and choke! Never let children unattended use electrical devices.

Incorrect handling of lithium batteries can result in injury

- In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries.
- When handled correctly and appropriately lithium batteries pose no risk.
- Store lithium batteries in a cool, dry place, ideally in the original packaging.
- Store lithium batteries away from heat sources (e.g. radiators or sunlight). Lithium batteries are hermetically sealed. Never attempt to open a lithium battery.
- If the battery housing is damaged small amounts of the electrolyte may leak out. If this should happen, seal the lithium battery in airtight packaging and wipe up the traces of electrolyte using absorbent paper towels. You must wear protective rubber gloves when doing so. Clean your hands and the affected surface thoroughly with cold water.
- Never attempt to recharge non-rechargeable lithium batteries. When charging lithium batteries you must use a suitable charging device intended for the purpose.
- Before disposing of the device remove the lithium batteries. Protect used lithium batteries against potential short circuits, e.g. by covering the poles with adhesive tape.
- Only use powder extinguishers or other suitable extinguishing agents to extinguish a burning lithium battery.

Possible damage to lithium-ion batteries through incorrect storage
By deep discharge, lithium-ion batteries can be permanently damaged or lose some of their capacity.

Before long breaks, charge the batteries to around 50 % of their capacity and then switch off the device. Store the device at room temperature or cooler in an environment as dry as possible. If the batteries are stored for a longer period, recharge them to 50 % every three months.

Fully charge the batteries only shortly before use at room temperature.

Where to use the product

Never use the product

- in direct sunlight
- in conditions of extreme temperature or humidity
- in extremely dusty or dirty areas
- at locations where the unit can become wet
- near magnetic fields

Electromagnetic compatibility other electrical equipment

Using the device near radios or TV sets may cause interference. Then increase the distance between the devices.

General handling

- To prevent damage, never use force when operating the switches and controls.
- Never immerse the appliance in water. Just wipe it with a clean dry cloth. Do not use liquid cleaners such as benzene, thinners or flammable cleaning agents.

Keep foreign substances from the unit!

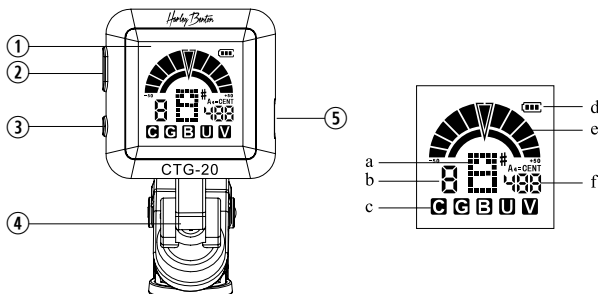
Keep the device away from containers with liquids. Should any liquid get into the unit, this could lead to its destruction or fire. Be sure not to let any metal objects into the unit.

Features

- USB loadable chromatic Clip-On tuner
- Fast response, bright colour LCD, 360° rotatable
- For chromatic tuning of guitars, bass guitars, violins and ukuleles.
- Calibration 430 - 450 Hz

- High-sensitivity piezo sensor
- Detection range from A0 to C8
- Tuner accuracy +/- 50 cent

Controls and functions



	Tuner
1	Display area
2	On / off button
3	Calibration button
4	Clip
5	USB recharge socket

	Display
a	Note name
b	String number
c	Tuning mode
d	Battery capacity
e	Tuning dial
f	Calibration and cent

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Using the device



Clip the unit to the instrument to be tuned with the display face up and well readable for you. Keep button **1** pressed for two seconds to turn the device on or off. Press button **2** repeatedly to select the desired tuning mode C (chromatic), G (guitar), B (bass), U (ukulele) or V (violin). Use button **3** to shift the reference tone in 1 Hz steps up in a range of 430 - 450 Hz.

If you play a string, the note it is tuned to is displayed. Tune the string to the desired tone. If the mark appears blue and in centre (-3 to +3 cents), the string is in tune. If it appears yellow and left of centre, tuning is flat. If it appears red and right of centre, tuning is sharp. All settings are retained even after turning the unit off.

Technical specifications

Tuning modes	chromatic, guitar, bass, ukulele, violin	
Detection range	A0 (27.5 Hz) – C8 (4186 Hz)	
Tuning accuracy	± 0.5 cent	
Reference tone range	430 - 450 Hz	
Battery	Type	Lithium-ion battery
	Voltage	3.7 V
	Capacity	110 mAh
	Operating time	5.5 h
	Charging time	1.5 h
Dimensions (W × H × D)	34 mm × 31 mm × 79 mm	
Weight	22 g	
Ambient conditions	Temperature range	0 °C ... 40 °C
	Relative humidity	20 % ... 80 % (non-condensing)

Charging the battery

If the display brightness decreases you need to recharge the internal battery. Connect the device via the included USB cable to the USB port of a running computer or a USB charger. During charging you see the  symbol. Upon completion of loading the  symbol appears in the display.



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 collected for recycling. Please follow the notes and markings on the packaging.



Batteries must not be thrown away or incinerated; they must be disposed of in accordance with local regulations for the disposal of hazardous waste. Use the existing collection points for this. Dispose lithium batteries only in discharged condition. Remove replaceable lithium batteries from the device before disposal. Protect used lithium batteries from short circuits, for example by covering the poles with adhesive tape. Permanently installed lithium batteries must be disposed of together with the device. Please inquire about a suitable acceptance point.



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose of your old device with your normal household waste. Dispose of this product through an approved waste disposal firm or through your local waste facility. Comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.