

Hartke HT 12 Operation Manual

Before using the tuner, please familiarize yourself with the various controls and indicators of the HT 12 Tuner as shown on the other side of this page

Auto Tuning Procedure

1. For electric instruments: Use a standard guitar cable to connect the output jack of an instrument to the input (**IN**) jack of the tuner. For acoustic instruments: Position the instrument close to the HT 12 tuner facing the built-in microphone (**MIC**).
2. Press **POWER** button to turn the Hartke HT 12 tuner on. The LCD will light up. **AUTO**, **CHROMA** and a pitch reference of A 440Hz are the default settings. (Note: the tuner will automatically shut off after 20 minutes with no sound input.)
3. Select the tuning mode you wish to use. Each press of the **MODE** button will cycle through **CHROMA**, **GUITAR**, **BASS**, and **VIOLIN** tuning modes. **CHROMA** mode will display the name of the note that is being played and how close to correct pitch it is. **GUITAR**, **BASS**, and **VIOLIN** modes will display the name of the string (for the selected instrument) and note that is closest to the one the tuner is currently analyzing.
4. Pick one string on your instrument, creating the sound of a single note.
5. If either of the red LEDs light up and the name of the note/string you desire to tune is displayed on the LCD, slowly tighten or loosen the string's tuning key until meter needle reaches center position. If the string's pitch is out of -50 or +50 cent range for the desired note, adjust the string's tuning key until the name of the note/string you desire to tune is displayed on the LCD and one of red LEDs (♭ or ♯) is illuminated.
6. When the string is in tune, the meter needle will stop at the center position and the green LED will be lit.
7. Repeat this process for each of the instrument's strings that you wish to tune.

Manual Tuning Procedure

1. Pressing the **NOTE** button will switch the tuning operation from **AUTO** to **MANL** (manual).
2. In **MANL** operation the notes/strings are selected in a specified order determined by the instrument selected. Pressing the **NOTE** button will skip/advance to the next note/string.
The following lists the order for each **MODE** in which the notes/strings are tuned in **MANL** operation
CHROMA - C, C♯, D, D♯, E, F, F♯, G, G♯, A, A♯, B
GUITAR - 7B, 6E, 5A, 4D, 3G, 2B, 1E (six string guitars skip 7B)
BASS - LB, 4E, 3A, 2D, 1G, HC (four string basses skip LB & HC)
VIOLIN - 4G, 3D, 2A, 1E
3. Tune each note/string as in steps 4 – 6 of the Auto Tuning Procedure (above).
4. Press the **NOTE** button to tune the next note/string and continue the process until the whole instrument is in tune.

Advanced Tuning Procedures

1. If you require a standard pitch other than A 440Hz (the A above Middle C), select a standard pitch (A 433Hz – A 447Hz) using the **PITCH** button.
2. If you would like to tune your instrument down (i.e. for 6 string guitar E_♭, A_♭, D_♭, G_♭, B_♭, E_♭), press the **FLAT** button once for each half-step (semi-tone) lower than standard pitch that you require. This will allow you to use the traditional string name (i.e. E, A, D, G, B, E) while utilizing a lower pitch for those strings (i.e. E_♭, A_♭, D_♭, G_♭, B_♭, E_♭). Each time the **FLAT** button is pressed a flat mark (♭) will be displayed in the LCD. The pitch can be lowered up to 4 half-steps (semi-tones), or the equivalent of tuning a 6 string guitar down to C.
Alternatively, if you use Capo on your guitar, you can tune the guitar with the capo attached by using **FLAT** tuning function. Press **FLAT** button once for each fret above the nut that the Capo is attached (up to 4 frets).
A flat sign (♭) will appear (up to four ♭) on the display each time you push the **FLAT** button. They representing how many half-steps the string will be tuned down relative to the selected or displayed note/string.

For Accurate Tuning

- When you tune electric instruments, position the volume level around the center "5" position.
- Avoid striking the strings heavily.
- Mute the strings lightly (with your fingers) when you are finished tuning a string before you begin tuning the next string.

Battery Installation

1. Slide the cover on bottom side in the direction of the arrow while pressing the cover.
2. Insert the batteries (AAA x 2, 1.5V) being careful to observe the correct polarity.
3. If the unit does not operate correctly, remove and then reinstall the batteries.

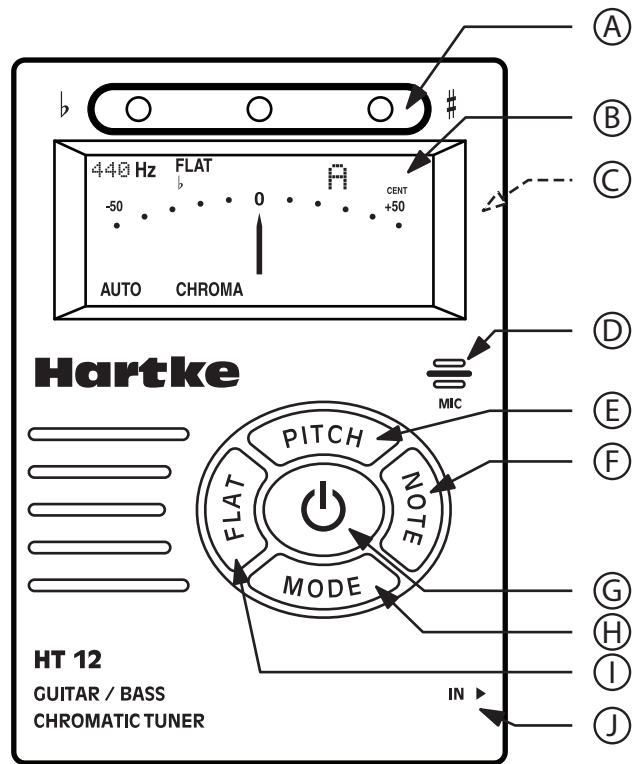
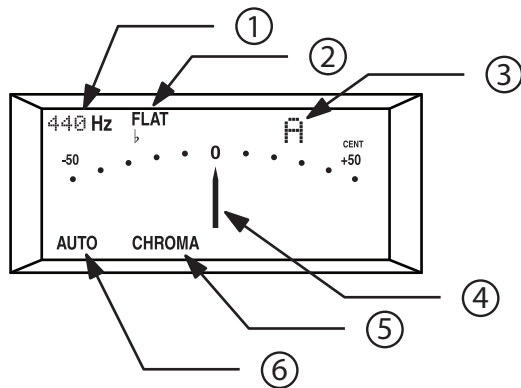
Hartke HT 12 Tuner Overview

Controls and Displays

- A. Flat, In-Tune and Sharp LEDs
- B. Liquid Crystal Display (LCD)
- C. Tilt Back Stand (Rear of unit)
- D. **MIC** Internal Microphone for Acoustic Instruments
- E. **PITCH** button (See Advanced Tuning Procedures)
- F. **NOTE** button to switch strings in manual operation
- G. **POWER** button
- H. **MODE** button
- I. **FLAT** button (See Advanced Tuning Procedures)
- J. **IN** Input Jack for Electric Instruments

LCD Display Overview

- 1. Reference Pitch Display
- 2. **FLAT** Mode Indicator
- 3. Note/String Display
- 4. Tuning Meter/Needle
- 5. Tuning **MODE** Indicator
- 6. **AUTO/MANUAL** Indicator



Specifications

Modes: Auto & Manual tuning mode
 Tuning Range: A0 (27.50Hz) – C8 (4,186.00Hz)
 Tuning Notes:
 Chromatic Mode: C, C#, D, D#, E, F, F#, G, G#, A, A#, B
 Guitar Mode: 7B, 6E, 5A, 4D, 3G, 2B, 1E
 Bass Mode: LB, 4E, 3A, 2D, 1G, HC
 Violin Mode: 4G, 3D, 2A, 1E
 Accuracy: ±0.5 Cents
 Pitch Range: A 433 – 447Hz (1Hz steps)
 Indicators: LCD & 3 LEDs
 Inputs:
 Input Jack for Electric instruments
 Condenser Microphone for Acoustic instruments
 Power supply: 3V (2 x 1.5V AAA batteries)
 Dimensions : (w) 2.6 x (h) 3.7 x (d) 43 in.
 (w) 65 x (h) 93.5 x (d) 11 mm
 Weight : 2.86 oz. / 81 g (Including Batteries)

Caution

1. To avoid short circuit, electric shock or malfunction:
 - Do not disassemble for repair.
 - Avoid excessive vibration.
 - Do not operate with wet hands.
 - Avoid high temperatures and humid spaces.
2. To avoid damage:
 - Do not handle controls with excessive force.
 - Do not drop the tuner.
3. Cleaning:
 - Do not use thinner or alcohol for cleaning.
 - Use only dry, clean cloth.
4. To prevent battery drain:
 - Turn the power off when the tuner is not in use.
 - Remove the battery when the tuner will not be used for an extended period of time.

Limited Warranty

The Hartke HT 12 Tuner is covered by a limited 1 year warranty. If, during the 1 year period that immediately follows the date of the original purchase your tuner is found, under normal usage, to have a defect in material or workmanship, SAMSON TECHNOLOGIES CORP. will repair or replace the tuner without charge. To register your tuner via the internet, go to <http://warranty.samsontech.com/>, or call Samson Customer Service at 1-800-372-6766. You must be able to provide proof of purchase at the time of any repair or replacement. Visit warranty.samsontech.com for complete details. *This warranty applies only to products sold in the USA, for warranty information on products not purchased in the United States, please contact the Hartke distributor in the country where the product was purchased.*