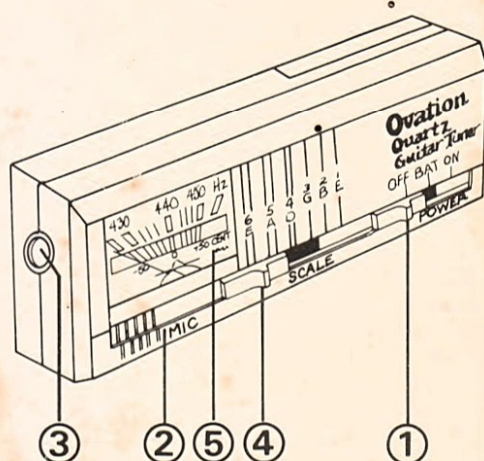


OVATION QUARTZ GUITAR TUNER MODEL NO. 9649

The Ovation Guitar Tuner uses Quartz technology to produce a highly accurate and dependable unit—with Ovation quality built-in. Acoustic and Electric guitars and basses can be quickly and accurately tuned to the standard pitch for each string, based on the world reference standard where middle A = 440 Hz.



FEATURES

1. Power Switch

Selects positions for Off, Battery Check, On.

2. Microphone

The built-in microphone picks up the sound of an acoustic instrument played close to it, facilitating easy tuning.

3. Input Jack

Electric guitar and bass cords are plugged directly into the jack for easy tuning.

4. Scale Selector Switch

Selects the string to be tuned.

5. Meter

Indicates how close the string is to being in tune.

SPECIFICATIONS

Tuning	Hz (cycles per second)
1E	329.6
2B	246.9
3G	196.0
4D	146.8
5A	110.0
6E	82.4

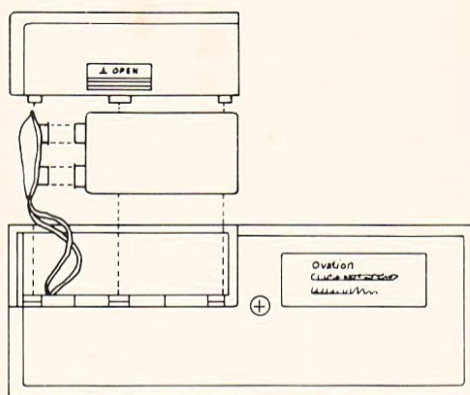
Accuracy

± 1 Cent (i.e. 1/100 of 1 semi-tone).

Power Supply

DC 9V Battery (S006P)

INSERTING BATTERY BEFORE USE



1. Ensure power switch is in the "OFF" position.
2. Remove battery compartment cover on the rear of the tuner.
3. After removing wrapping from battery, snap it onto the battery connector and place in compartment.
4. Replace battery compartment cover.

CHECKING THE BATTERY

1. Move slide switch to BAT position.
2. Meter needle should swing over the red check mark identified by BAT on the meter dial.
3. If the needle does not swing over to the check mark it is time to replace the battery. (See above).

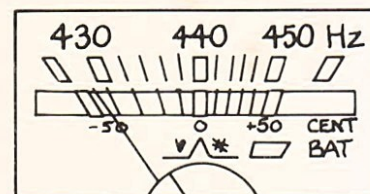
BATTERY TYPE

We recommend the use of an alkaline type battery, 9 volts DC.

CARE OF YOUR TUNER

1. Always put the slide switch in the OFF position when the tuner is not in use to prolong battery life.
2. If your tuner is not to be used for an extended period of time, remove the battery from its compartment and store separately. This will prevent leakage and subsequent damage to the tuner.
3. Keep your tuner clean by wiping with a soft cloth. DO NOT use alcohol or solvents.

GUITAR TUNING



Acoustic Guitar

1. Move slide switch to ON.
2. Hold tuner so that the built-in microphone is near the guitar's sound hole.
3. Set scale selector switch to "6E".
4. Play open low E string and tune so that the meter needle moves to the center position on the dial, indicated by the "0" mark.
5. Then move the scale selector switch to the "5A" position and tune the 5th (A) string in the same way.
6. Continue selecting the appropriate position on the scale selector switch and tuning each individual open string until all 6 strings have been tuned.

Electric Guitar

1. Move slide switch to "ON".
2. Plug guitar cord into the input jack of the tuner.
3. Proceed with string by string tuning as for the acoustic guitar.

Acoustic and Electric Bass

The Ovation Model #9649 Guitar Tuner works equally well for acoustic and electric basses. The 4 positions on the selector switch 6E, 5A, 4D, and 3G correspond to the 4 bass strings bottom E, A, D, and top G. The string can be *roughly* tuned when the string is played in the open position. For *accurate* tuning, play the harmonic at the octave position (12th fret on an electric bass).

Ovation®

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