SEIKO CHROMATIC TUNER SAT800
INSTRUCTION MANUAL

NAMES OF PARTS

[LCD display]

[Rear view]
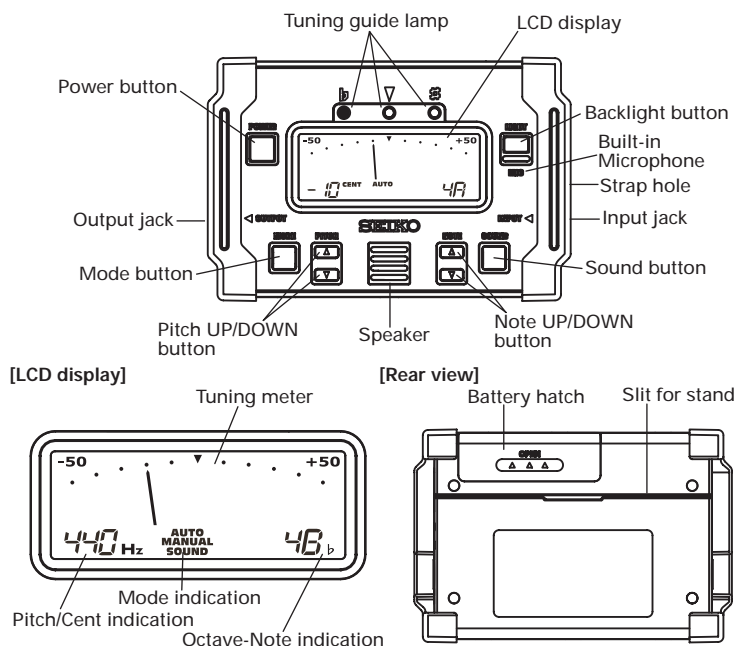
BEFORE USING YOUR TUNER

● Unpack batteries. Open battery hatch, and insert batteries into the battery compartment, checking that their (+) and (-) terminals are properly aligned.

  * *Batteries included with your tuner are monitor batteries, and their battery life may be shorter than the specified period.*
  * *For battery replacement, see "BATTERY CHANGE" below.*

HOW TO USE TUNER

Cautions on Using Input and Output Jacks

● When tuning electric or electronic instruments, or when using the contact microphone sold separately (STM20) for tuning, insert the plug of the instrument or microphone into Input jack. While a plug is connected with Input jack, the Built-in microphone is disabled.

● To connect with Input or Output jack of Tuner, use a jack plug having a handle with a diameter of 14mm or less due to the protectors attached to both sides of Tuner. Jack plugs with "L" shaped or other handles having unusual shapes may not be used with Input or Output jack, either.

● When tuning acoustic instruments using Built-in microphone, be sure to leave Input jack unconnected. Bring the instrument close to Tuner to input a note. As the noise from the surrounding environment or the sound of other instruments may interfere with the accurate tuning, perform the tuning procedure in a quiet environment.

⚠	Before pulling out the plug from Input or Output jack, be sure to turn off all the instruments or devices connected to Tuner.
⚠	Do not connect an amplifier or other devices to Output jack while Input jack is unconnected. Otherwise, Built-in microphone may cause a howling noise to damage the device connected.

Bypass Function

● Tuner is equipped with a "bypass" function that outputs the signal input into Input jack to other devices through Output jack regardless of whether Tuner is turned on or off. When using this "bypass" function, however, be sure to turn off Tuner to prevent it from being adversely affected by noise caused by the signal.

Tuning Procedure

● **Auto mode (AUTO)**

When a note is played, Tuner automatically identifies it, and indicates the octave and the note closest to it on LCD display. It also indicates discrepancy between the input note and the note shown on display by Tuning meter and Tuning guide lamp.

1) Press Power button to turn on Tuner.
2) Press Mode button to select "AUTO" on LCD display.
3) Play a note on the instrument.
   * *When tuning is made through the Built-in microphone, choose a quiet environment, and bring instrument close to Tuner.*
4) Tune instrument so that the note you wish to tune to is indicated on LCD display.
5) Tune instrument further until the pointer of Tuning meter indicates "0".
   * *When discrepancy between the input note and the note indicated by the Octave-Note indication is within the range of ±3 cents, Tuning guide lamp in the middle will light up in green.*

● **Manual mode (MANUAL)**

Set note you wish to tune to, and then, play a note. Tuner indicates discrepancy between the input note and the note you have set by Tuning meter and Tuning guide lamp.

1) Press Power button to turn on Tuner.
2) Press Mode button to select "MANUAL" on LCD display.
3) Press Note UP (▲)/DOWN (▼) button to choose the note you wish to tune to from notes indicated on LCD display (C ~ B).
4) Play a note on instrument.
   * *When tuning is made through the Built-in microphone, choose a quiet environment, and bring instrument close to Tuner.*
5) Tune instrument until the pointer of Tuning meter indicates "0".
   * *When discrepancy between the input note and the note indicated by the Octave-Note indication is within the range of ±3 cents, Tuning guide lamp in the middle will light up in green.*
   * *Though it is not necessary to set the octave in the manual tuning mode, Tuner automatically identifies the octave of the input note , and indicates it on the Octave-Note indication.*

● **Sound mode (SOUND)**

Tuner gives out note you have set. Tune the instrument by using it as reference.

1) Press Power button to turn on Tuner.
2) Press Sound button. "SOUND" is indicated on LCD display.
3) Press Note UP (▲)/DOWN (▼) button to choose the note you wish to tune to from C to B.
   * *An octave of notes from C4 to B4 will be generated.*
4) Tune instrument by using the note given out by tuner as reference.

● **How to change the reference pitch (frequency of A4):**

Press Pitch UP (▲)/DOWN (▼) button to set the desired pitch.
(Settable range: A4=410 ~ 450 Hz)

Tuning Examples

The following tables show the most typical examples of tuning (octave and note) for each of the strings of a guitar and a bass guitar.

Guitar						
String	6th	5th	4th	3rd	2nd	1st
Octave (numeral) Note (alphabet)	2E	2A	3D	3G	3B	4E

Bass guitar				
String	4th	3rd	2nd	1st
Octave (numeral) Note (alphabet)	1E	1A	2D	2G

OTHER FUNCTIONS

Backlight Function

By pressing Backlight button, the LCD display is illuminated with high brightness. If Tuner is left untouched for more than 15 seconds without inputting a note or pressing a button, the brightness of Backlight will be reduced to a low level to save battery energy. Any note input or button operation during the low-brightness mode will return Backlight to the high-brightness mode. If Tuner is left untouched for more than 3 minutes while in the low-brightness mode, Backlight will be turned off automatically. To turn off Backlight manually while in the high- or low-brightness mode, press Backlight button again.

Auto Power-Off Function

To save battery energy, Tuner is automatically turned off if no button operation or note input is made for a certain period of time (AUTO/MANUAL mode: approximately 10 minutes; SOUND mode: approximately 5 minutes).

Memory Backup Function

Even after Tuner is turned off, the settings you have made are stored in memory and can be used repeatedly unless you change them.

If the batteries are replaced with new ones, Tuner will return to the following initial settings.

Tuning mode: [AUTO], Pitch shift: [440 Hz], Note: [A]

BATTERY CHANGE

When batteries near their end, LCD display becomes dim, and the brightness of Tuning guide lamps reduces. In that case, replace batteries with new ones immediately. Otherwise, a malfunction will result.

IMPORTANT!: Before replacing batteries, make sure that Tuner is turned off.

1. Slide battery hatch on the rear of Tuner in the direction of the arrow to remove it.
2. Insert two R03/LR03 (AAA) dry batteries, checking that their terminals are properly aligned.
3. Turn on and off Tuner by pressing Power button to check that it operates properly.
   * *Replace the two batteries at the same time. Do not mix old and new batteries or batteries of different makes and types together.*
   * *When disposing of old batteries, observe regulations of the authorities concerned.*
   * *When you decide not to use Tuner for a long time, remove batteries to prevent battery leakage.*

Battery hatch

● New batteries
  R03/LR03 (AAA)
  dry batteries, 2 pieces
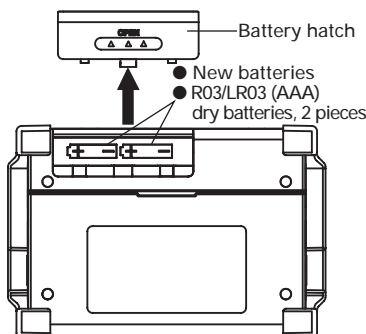
HOW TO USE SLIT STAND

● Insert a card or coin into the slit on the rear of Tuner to prop it up.

  * *Do not forcibly insert a card or coin that will not fit into the slit, as this may cause damage to the tuner or injuries.*

  * *Also, note that the card or coin used to prop up the tuner may get scratched or damaged accidentally.*
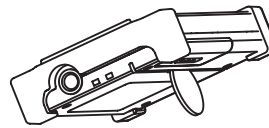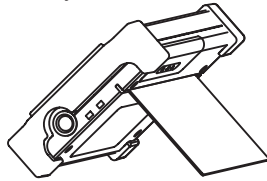
CAUTIONS ON USING TUNER

● This product was manufactured under complete quality control, and has passed rigorous inspections. However, it is a highly precise electronic device, and applying shocks by dropping it, vibrations, pressure, etc. will cause a malfunction. Handle Tuner with sufficient care.

● Tuner has rubber parts on both sides. Placing it at the same spot on the desk or other flat surface for a long time may leave marks on it.

● While Tuner is turned on, it may pick up noise from the surrounding environment or the hum noise generated by electric appliances, and shows indications as if a note is played. This is not a malfunction, and Tuner operates properly when a note is input.

● Do not apply undue force to Tuner by swinging it with the strap or pulling the strap forcibly, as this may cause damage to the tuner or injuries.

● Please note that musical instruments that generate harmonic overtones or short sustain tones may not be tuned accurately even though the note input to Tuner is within the tunable range.

SPECIFICATIONS

1. MODE	: Auto mode/Manual mode • Sound mode
2. TUNING RANGE	: A0 (27.5 Hz) ~ C8 (4186.0 Hz) (when A4 is set to 440 Hz)
3. REFERENCE NOTE	: C4 ~ B4 (12 notes at halftone steps)
4. TUNING ACCURACY	: ±1 cent
5. PITCH SHIFT	: A4 = 410 Hz ~ 450 Hz (at 1 Hz steps)
6. ADDITIONAL FUNCTIONS	: Auto power-off, backlight, memory backup
7. POWER SUPPLY	: R03/LR03 (AAA) dry battery, 2 pieces (3 V)
8. TERMINAL	: Input jack (ø6 mm), output jack (ø6 mm)
9. OVERALL DIMENSIONS	: 120.0 (W) x 80.4 (H) x 23.8 (D) mm (including protrusions)
10. WEIGHT	: 150 g (including batteries)
11. ACCESSORIES	: Instruction manual and monitor batteries R03/LR03 (AAA), 2 pieces

* The design and specifications are subject to change without prior notice for product improvement.