

INSTRUCTION MANUAL

Thank you for purchasing the SEIKO CHROMATIC TUNER STX7. Carefully read this instruction manual before using your STX7 as proper use is important to ensure the life of the product. Store this instruction manual in a place that is readily accessible and refer to it regularly.

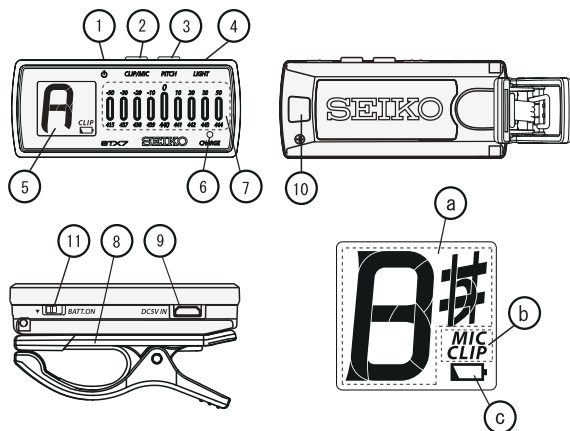
PRECAUTIONS

Avoid the following warnings and cautions are important in ensuring safe and proper use of the product, preventing injury to yourself and others, and preventing damage to your belongings.

- Do not disassemble, attempt to repair, or tamper with the tuner or battery.
- Do not handle the tuner with wet hands.
- Do not use or store the tuner in places where it may become wet such as in bathrooms, near sinks, or outdoors.
- Do not expose removed batteries to fire.
- Do not short removed batteries.
- Do not insert pins or other foreign objects into the tuner.
- Do not place the tuner on unstable surfaces.
- Do not intentionally throw or drop the tuner.
- Use only in environments where the temperature is from 5°C to 35°C.
- Do not use the tuner near heaters, on devices that generate heat, in direct sunlight, or in vehicles.
- Do not use or store the tuner in humid or dusty places.
- Do not use cables other than the included USB charging cable.
- Do not apply excessive force to the included USB charging cable.
- Avoid direct eye-contact with the light of the white LED.
- Carefully monitor use of the tuner by children.
- Keep the tuner out of the reach of children.
- Always remove the included USB charging cable after charging.
- Remove the included USB charging cable from the tuner after the necessary charging time, even if the battery is not completely charged.
- Remove the included USB charging cable from the tuner immediately in the case of unusual smells, heat-buildup, deformation or other abnormalities during charging.
- When charging, make sure that the included USB charging cable is inserted completely into the charging port
- Do not exceed the stipulated range of movement of the clip.
- Do not apply excessive force to the buttons or body of the tuner.
- Do not let leaked battery fluid come in contact with your skin.
- Do not use or store the tuner in dusty places or places prone to vibration.
- Do not use thinner or alcohol to clean the tuner.
- Make sure that area around the tuner and the USB charging cable is free of clutter when charging
- Do not handle the included USB charging cable with wet hands.
- Be careful not to pinch fingers in the clip.
- Remove the clip from your instrument when not using the tuner.
- Charge the battery only in environments where the temperature is from 5°C to 35°C.
- Check the orientation of the USB plug before inserting it into the charging port.
- When connecting, make sure that there is no dust or foreign material on the charging port, charging connector or USB plug.

A rechargeable lithium ion battery is used in this device.
When using your STX7 after purchasing for the first time, slide the battery switch to the [BATT. ON] position. You must charge the battery using the included USB charging cable prior to first use. ARGING YOUR STX7™ for details.

NAMES AND FUNCTIONS OF PARTS



About the built-in microphone
A built-in microphone is used in this device. This microphone is nondirectional, highly-sensitive microphone. Sound from any direction will be picked up.

- POWER button**
Press the POWER button to turn the tuner on and off.
- CLIP/MIC button**
Press the CLIP/MIC button to toggle between CLIP input and MIC input tuning.
CLIP input: The built-in vibration sensor will detect the vibrations emitted when you play a note on your instrument. This input method is suitable for environments where there is a lot of background noise or when you want the tuner to pick up only the sound emitted from your instrument.
MIC input: The built-in microphone will pick up notes played on your instrument.
- PITCH button**
Press the PITCH button to set the reference pitch (A4 frequency). The reference pitch can be set to 415 Hz or at 1 Hz steps from 437 to 444 Hz. The factory setting of the reference pitch is 440 Hz.
- LIGHT button**
Hold the LIGHT button down for 1 second to turn the LED light ⑩ ON at "low" brightness. Press the button a second time to set the brightness to "high".

- Press the button a third time to turn the LED light OFF. (Light ON (brightness: low) → Light ON (brightness: high) → Light OFF → Repeat)
- Note that the LED light can be turned ON even if the tuner is OFF.
- LCD screen**
 - Note Indicator:** Shows the note closest to the input note.
 - Input Method Indicator:** Shows the selected input method (CLIP or MIC).
 - Low Battery Indicator:** Lights up when the battery is low and needs to be recharged.
- CHARGE LED Lamp**
The red LED lamp turns on when charging. The lamp turns off automatically when charging is completed.
- Tuning lamps**
When tuning, the LED tuning lamps light up and show the difference between the displayed note and the note played. The reference pitch is also shown.
- Clip**
Use the clip to attach the tuner to your instrument when using CLIP (vibration) input to tune.
- Charging Port (micro USB)**
Used when charging the battery.
- LED Lamp**
This white LED turns on when the LIGHT button is pressed and held for 1 second.
- Battery Switch**
In the event of a malfunction during use, slide the Battery Switch to the [▼] position and then back to the [BATT. ON] position. Then, turn your STX7 back on.

CHARGING YOUR STX7

Charge the battery at least once every six months, even during extended periods of non-use. Doing so may prevent shortening of battery life.

- The battery of your tuner needs to be charged when the Low Battery Indicator is displayed on the LCD screen as shown in FIG. 1. The lithium ion battery of the tuner can be charged by connecting the included USB charging cable to a USB port (e.g. of a computer).
- Turn the tuner OFF before plugging the charging connector (small end) of the included USB charging cable into the tuner.
 - Plug the type-A connector (large end) of the USB charging cable into a USB port (e.g. of a computer).
When connected correctly, the red CHARGE LED lamp will turn on.
※ Note that power must be supplied to the USB port in order to charge the battery.
 - Charging is complete when the CHARGE LED lamp (red) on the tuner turns off.
Remove the included USB charging cable after charging is completed.
※ Depending on use conditions, it may take up to about 3 hours to fully charge a drained battery.

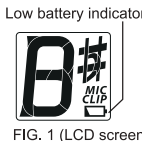
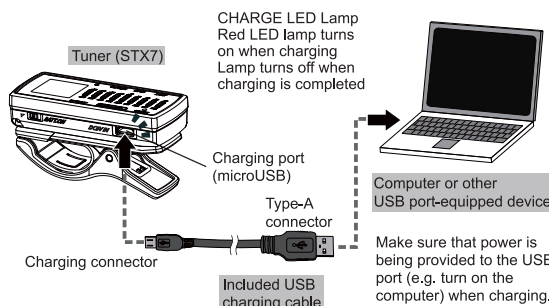


FIG. 1 (LCD screen)



- CAUTIONS-**
- ※ Charge the battery only in environments where the temperature is from 5°C to 35°C.
 - Performance and life of the battery may decline if charged in environments where the temperature is outside this range.
 - ※ Your settings and saved data will be lost if the battery is completely depleted.
 - ※ Check the orientation of the USB plug before inserting it into the charging port. The plug must be oriented correctly to fit into the charging port.
 - ※ Only use the included USB charging cable to charge the battery of your tuner. Use of other cables may result in damage to your tuner.
 - ※ Turn the tuner OFF before charging the battery.
 - ※ Do not touch the tuner casing or the USB cable with wet hands. Doing so may lead to injury or electric shock.
 - ※ Ensure that the ends of the USB terminal and the charging port are free of dust and debris, as such may lead to heat buildup and/or smoldering.

HOW TO USE

■ Attaching the Tuner
Clip the tuner securely to your instrument and adjust the clip so that you can see the screen clearly. Make sure that adjustments made to the clip are within its stipulated range of movement (see FIG. 2).

- Do not exceed the stipulated range of movement of the clip. Doing so may result in damage to your tuner.
- Remove the clip from your instrument when not using the tuner. Leaving the tuner clipped to your instrument for a long time may result in marking or discoloration of your instrument.

■ Tuning your Instrument
Press the POWER button to turn on your tuner. When turned on, the last A4 reference pitch that was set will flash on the indicator. Press the PITCH button to set the reference pitch according to the reference pitch meter. The tuner automatically indicates the note closest to the input note and the discrepancy between the input note and the note shown on display. The middle (blue) lamp of the indicator will light up when the played note is in tune.

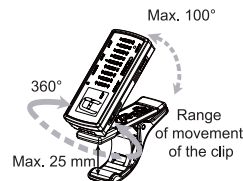
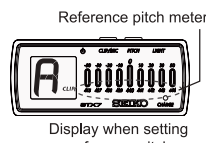
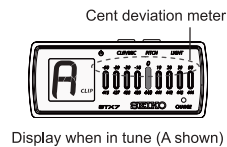


FIG. 2 (range of movement)



Display when setting reference pitch

- Ambient sound or hum noise from electronic appliances may cause the tuner to behave as if in use. This is not a malfunction.
- After a short period of tuning or button inactivity while the tuner is turned on, the LCD screen will be dimmed incrementally. The tuner will automatically turn off after about ten minutes of inactivity. This function is provided to extend the life of the battery.
- In some cases, instruments that produce harmonic overtones or short-sustaining tones may not tune accurately.



Display when in tune (A shown)

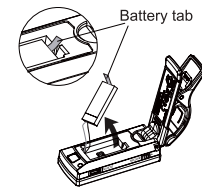
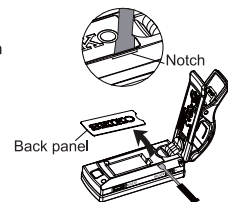
DISPOSING OF THE INTERNAL (RECHARGEABLE LITHIUM ION) BATTERY

A rechargeable lithium ion battery is used in this device. In some cases the battery must be removed when disposing of the tuner. In such cases, follow the steps given below to remove the battery.
※ Follow all local ordinances and regulations when disposing of batteries.
※ Make sure that the battery is depleted before removing the battery.
※ As necessary, wear protective glasses and gloves when removing the battery in order to prevent injury.
※ Carefully read the instructions herein before attempting to remove the battery. If you are uncertain about your ability to safely remove the battery, have the store where you purchased the tuner or professional do it for you.

Battery Removal Diagram 1

REMOVING THE BATTERY

- As shown in Battery Removal Diagram 1, insert a flat-head screwdriver into the notch located near the "O" in "SEIKO" printed on the back panel. Lift up the back panel.
- Pull up on the battery tab in the direction indicated by the arrow and remove the battery.



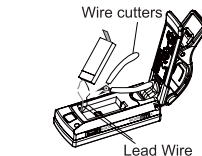
-CAUTION-

Damaging the battery may result in fires, cracking, and fluid leakage. Do not, under any circumstances, apply excessive force with the screwdriver when removing the battery. Immediately contact the store of purchase or a professional if you damage the surface of the battery or the battery casing breaks.

- Using wire cutters, cut the lead wires of the battery one at a time.

-CAUTION-

- Cut the lead wires of the battery one at a time.
- Wrap the ends of the lead wires still attached to the removed battery with electrical tape.



- Dispose of the removed battery promptly. If you cannot dispose of the battery promptly, ensure that it is stored out of the reach of small children.
- In the event that a child swallows the battery or any other parts, contact a physician immediately.
- Damaging the battery may result in fires, cracking, and fluid leakage. Be careful not to drop the removed battery or expose it to strong impacts.

Follow all local ordinances and regulations and dispose of the battery at the proper venue.

SPECIFICATIONS

- Tuning mode : Auto chromatic
 - Tuning range and accuracy : A0 (27.5 Hz) ~ C8 (4186.0 Hz) * A4= 440 Hz; ± 1 cent
 - Pitch shift : A4= 415 or 437 ~ 444 Hz (1 Hz steps)
 - Auto power-off : 10 min.
 - Input methods : Built-in vibration sensor, built-in microphone
 - LED light : White LED (brightness levels: low/high)
 - Power supply : Rechargeable lithium ion battery (DC 3.7 V, 105 mAh)
 - Use time at full charge : Approx. 8 hours (at continuous A4 input) Approx. 7 hours (LED light on high), approx. 30 hours (LED light on low)
 - Operating temperature range : 5°C ~ 35°C
 - Charging time : Approx. 3 hours
 - Overall dimensions and weight : 70 (W) × 30 (H) × 38 (D) mm; approx. 42 g
 - Opening range of the clip : Approx. 25 mm
 - Accessories : USB charging cable, instruction manual
- ※ The design and specifications are subject to change without prior notice for product improvement.