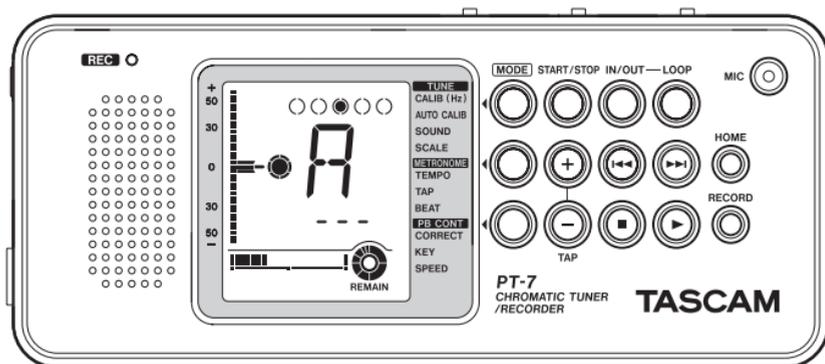


TASCAM[®]
TEAC PROFESSIONAL

PT-7

Chromatic Tuner/ Recorder

This device has a serial number located on the bottom panel. Please record it and retain it for your records.
Serial number:



OWNER'S MANUAL

IMPORTANT SAFETY INSTRUCTIONS



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

If you are experiencing problems with this product, contact TEAC for a service referral. Do not use the product until it has been repaired.

IMPORTANT SAFETY INSTRUCTIONS

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when

moving the cart/apparatus combination to avoid injury from tip-over.



- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
 - 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not expose this apparatus to drips or splashes.
 - Do not place any objects filled with liquids, such as vases, on the apparatus.
 - Do not install this apparatus in a confined space such as a book case or similar unit.
 - The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.

IMPORTANT SAFETY INSTRUCTIONS

- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- The main plug is used as the disconnect device, the disconnect device shall remain readily operable.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.
- Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.

Cautions about Batteries

This product uses batteries. Misuse of batteries could cause a leak, rupture or other trouble. Always abide by the following precautions when using batteries.

- Never recharge non-rechargeable batteries. The batteries could rupture or leak, causing fire or injury.
- When installing batteries, pay attention to the polarity indications (plus/minus (+/-) orientation), and install them correctly in the battery compartment as indicated. Putting them in backward could make the batteries rupture or leak, causing fire, injury or stains around them.
- When you store or dispose batteries, isolate their terminals with insulation tape or something like that to prevent them from contacting other batteries or metallic objects.
- When throwing used batteries away, follow the disposal instructions indicated on the batteries and the local disposal laws.
- Do not use batteries other than those specified. Do not mix and use new and old batteries or different types of batteries together. The batteries could rupture or leak, causing fire, injury or stains around them.
- Do not carry or store batteries together with small metal objects. The batteries could short, causing leak, rupture or other trouble.
- Do not heat or disassemble batteries. Do not put them in fire or water. Batteries could rupture or leak, causing fire, injury or stains around them.
- If the battery fluid leaks, wipe away any fluid on the battery case before inserting new batteries. If the battery fluid gets in an eye, it could cause loss of eyesight. If fluid does enter an eye, wash it out thoroughly with clean water without rubbing the eye and then consult a doctor immediately. If the fluid gets on a person's body or clothing, it could cause skin injuries or burns. If this should happen, wash it off with clean water and then consult a doctor immediately.

IMPORTANT SAFETY INSTRUCTIONS

- The unit power should be off when you install and replace batteries.
- Remove the batteries if you do not plan to use the unit for a long time. Batteries could rupture or leak, causing fire, injury or stains around them. If the battery fluid leaks, wipe away any fluid on the battery compartment before inserting new batteries.
- Do not disassemble a battery. The acid inside the battery could harm skin or clothing.

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH
CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST
CONFORME À LA NORME NMB-003 DU CANADA.

FOR U.S.A.

TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- a) Reorient or relocate the receiving antenna.
- b) Increase the separation between the equipment and receiver.
- c) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- d) Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

IMPORTANT SAFETY INSTRUCTIONS

产品有毒有害物质或元素的名称及含量

机种：PT-7		有毒有害物质或元素					
	品名	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
1	CHASSIS部份	○	○	○	○	○	○
2	线材部份	○	○	○	○	○	○
3	PCB Assy部份	×	○	○	○	○	○
4	电源部份	×	○	○	○	○	○
5	附属品部份	○	○	○	○	○	○
6	SEAL部份	○	○	○	○	○	○
7	包装部份	○	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

(针对现在代替技术困难的电子部品及合金中的铅)

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1 – Introduction

Thank you very much for purchasing the TASCAM PT-7 Chromatic Tuner/Recorder.

Please read this Owner's Manual before using the unit. We hope that with accurate understanding of how to use its functions, you will enjoy using this Chromatic Tuner/Recorder for many years.

After you have finished reading this Owner's Manual, please keep it in a place where you can refer to it any time. Moreover, you can download a digital copy from our website (<http://www.tascam.com/>).

Features

- Real-time pitch detection and display
- Built-in microphone
- Input jack for connecting external contact mics
- Record sound memos (for about 20 minutes total)
- Pitch can be corrected during playback
- Pitch of a performance can be checked after recording
- During playback, pitch can be changed without changing speed or speed can be changed without changing pitch
- Loop (repeat) playback possible
- Tuner with calibration function
- 8 types of scales can be used
- Metronome function includes, 1 - 7 beat rhythms, duplets, triplets, shuffle and quadruplets (30 - 300 BPM range)
- Built-in speaker
- Output for use with headphones
- Hook to hang on a music stand
- Built-in stand allows tabletop use
- Runs on a single AA battery or using an AC adaptor (optional TASCAM PS-P520)

1 – Introduction

Items included with the product

The following items are included with the product.

- Main unit 1
- AA battery 1
- Warranty 1
- Manual (this document) 1

Please contact us if any of these items are missing or have been damaged during transportation.

Take care when opening the package not to damage the equipment. Keep the box and packaging materials for transportation in the future.

Conventions used in this manual

The following conventions are used in this manual.

- Keys, jacks and other parts of this unit and other equipment are indicated in a bold font like this: **MODE** key.

- Characters that appear on the display are shown with quotation marks like this: “G#”
- Additional information is provided as necessary as tips, notes and cautions.

TIP

These are hints about how the unit can be used.

NOTE

These provide additional explanations and special situations, for example.

CAUTION

These instructions should be followed to avoid injury, damage to equipment or loss of data.

Trademarks

- TASCAM is a registered trademark of TEAC Corporation.
- Other company names, product names and logos in this document are the trademarks

or registered trademarks of their respective owners.

Precautions for placement

- The environmental temperature operation range of this unit is 5–35° C (41–95° F).
- Do not install in the following types of places. Doing so could degrade the sound quality and/or cause malfunctions.
 - Places with significant vibrations or that are otherwise unstable
 - Near windows or other places exposed to direct sunlight
 - Near heaters or other extremely hot places
 - Extremely cold places
 - Places with bad ventilation or high humidity

Beware of condensation

Condensation could occur if the unit is used when the temperature changes suddenly, for example, after being moved from a cold to a warm place or immediately after a room is warmed.

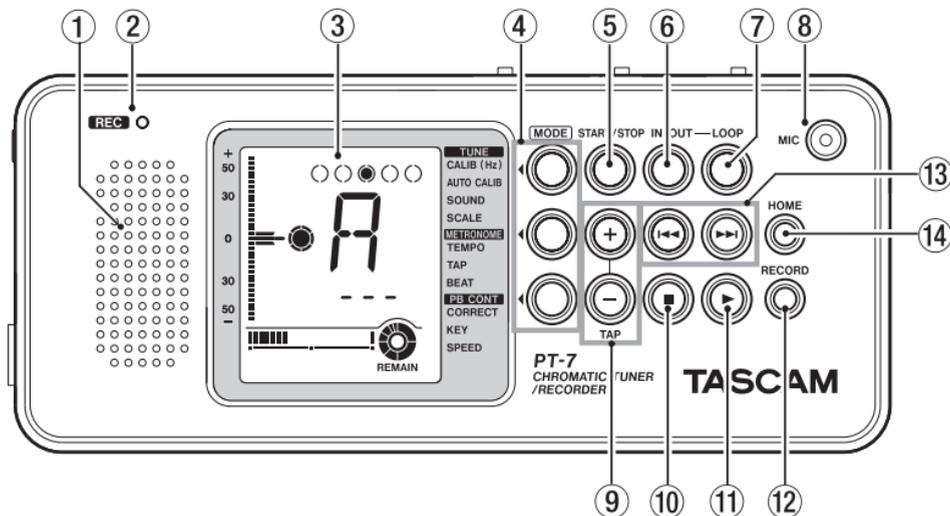
If condensation occurs, let the unit sit for about one or two hours and then turn the power on again.

Cleaning the unit

To clean the unit, wipe gently with a soft dry cloth. Do not wipe with chemical cleaning cloths, benzene, paint thinner, alcohol or other chemical agents. Doing so could damage the surface or cause fading.

2 – Names and functions of parts

Top panel



- ① **Built-in speaker**
This is a speaker for monitoring the sound output from recordings, standard pitch, and the metronome click.

Use the **SPEAKER ON/OFF** switch on the rear panel to set whether or not sound is output from this speaker.

2 – Names and functions of parts

NOTE

Due to the characteristic of the built-in speaker, some sound might be difficult to hear even if you turn up the volume.

- ② **REC indicator**
This lights during recording.
- ③ **Display**
This shows various types of information.
- ④ **MODE keys**
Use these to change the **TUNE** (tuner), **METRONOME** and **PB CONT** (playback control) functions.
- ⑤ **START/STOP key**
Press this to start and stop the metronome. When tuning, press it to start and stop output of the standard pitch from the built-in speaker.
- ⑥ **IN/OUT key**
When playing back a recorded track, press to set and cancel loop playback starting (IN) and ending (OUT) points.

- ⑦ **LOOP key**
Press to enable and disable loop playback when playing back a recorded track.
- ⑧ **MIC**
Use this built-in monaural microphone for recording and the pitch trainer functions.

NOTE

When a contact mic or other device is connected to the INPUT jack, the built-in mic is disabled. When you want to use the built-in mic, do not connect anything to the INPUT jack.

- ⑨ **TAP +/- keys**
Use these to set various internal setting parameters.
- ⑩ **STOP key**
Press to stop recording or stop the playback of a recorded track.
- ⑪ **PLAY key**
Play a recording.
- ⑫ **RECORD key**
Press this key during playback or when

2 – Names and functions of parts

stopped to start recording.

Press this key during recording to start a new track (file) from that point and continue recording.

⑬ ◀◀/▶▶ keys

When stopped or when playing back a recorded track, press these keys briefly to skip to the previous/next track.

Press and hold these keys to search backward/

forward in a track while playing.

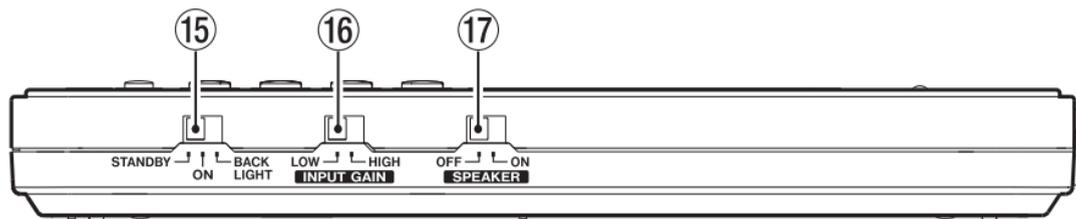
⑭ HOME key

Press this key to exit the various setting modes. The parameter value display area of the LCD shows the current track (song) number.

NOTE

If there is no recorded track (file), "- - -" appears in the parameter value display area of the LCD.

Rear panel



2 – Names and functions of parts

- ⑮ **STANDBY switch**
Use this switch to turn the trainer's power **ON** and **STANDBY**.

STANDBY: Turns the power to standby.

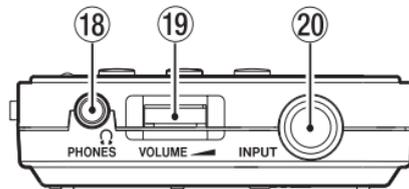
ON: Turns the power on without illuminating the LCD with the backlight.

BACK LIGHT: Turns the power on and illuminates the LCD with the backlight.

- ⑯ **INPUT GAIN switch**
Set this to suit the level of the signal input to the **INPUT** jack.
If the input volume is quiet set this to **HIGH**, and if it is loud set this to **LOW**.

- ⑰ **SPEAKER switch**
Use this to turn the built-in speaker **ON** and **OFF**.

Left side panel



- ⑱ **PHONES jack**
Use this to connect headphones.
- ⑲ **VOLUME control**
Use this to adjust the volume of the headphone and the built-in speaker output.
- ⑳ **INPUT jack**
Connect an external contact mic, for example, to the unit here to input sound.

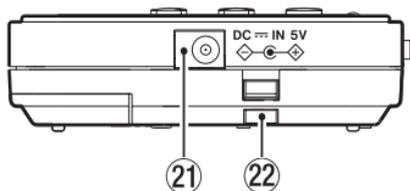
NOTE

- *When a contact mic or the other device is connected to the INPUT jack, the built-in mic is disabled. When you want to use the built-in mic, do not connect anything to this jack.*

2 – Names and functions of parts

- *This unit does not support the direct input of electric guitars, effect pedals and similar devices. If you connect one of these directly to the unit, recording could be distorted. If this happens, you might be able to record without distortion if you turn down the output of the connected device.*

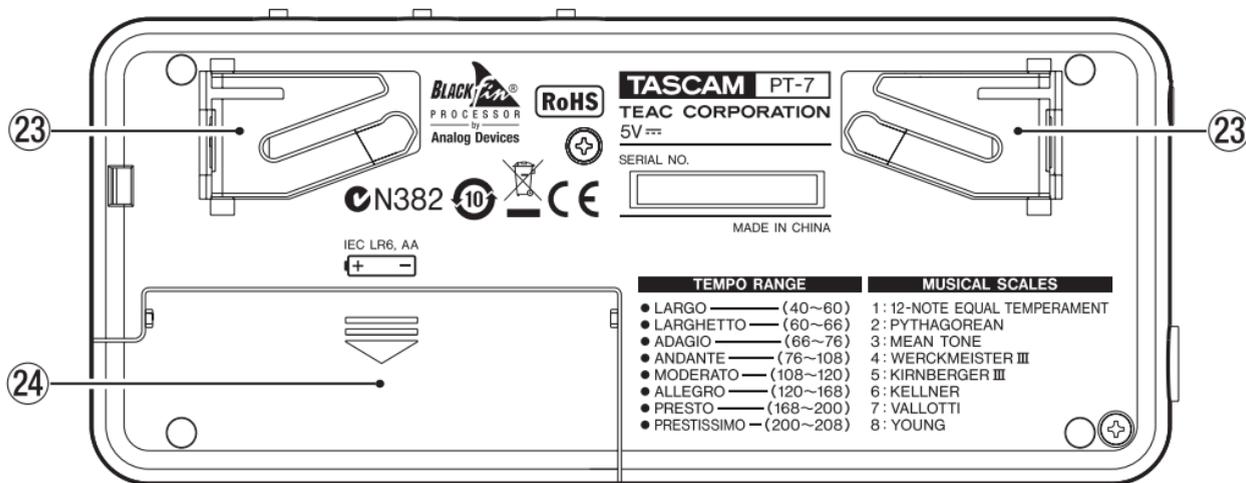
Right side panel



- ① **DC IN 5V jack**
Connect a specialized PS-P520 AC adaptor (sold separately).
Do not use any other type of AC adaptor.
- ② **Strap attachment**
Use this to attach a strap.

2 – Names and functions of parts

Bottom panel



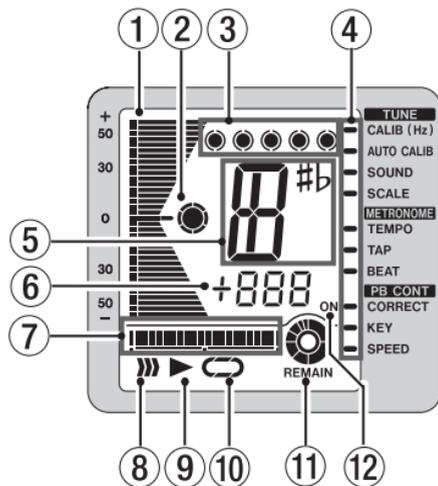
- ②3 **Stands**
Open these to allow the unit to stand up by itself. You can also hang the unit on a music stand.

- ②4 **Battery compartment (AA battery)**
This compartment holds one AA battery that powers the unit. (See “Using a battery” on page 20.)

2 – Names and functions of parts

Display

This unit's display shows the following information.



- ① Pitch guide bars**
This bar meter shows how much a pitch differs from a standard pitch. The range shown is ± 60 cents (100 cents is one semitone).
0 - 30 cents: 2.5-cent units
30 - 50 cents: 5-cent units
50 - 60 cents: 10-cent units
- ② Pitch guide circle**
When there is almost no difference between the detected pitch and the standard pitch, the circle in the center is shown.
When there is almost no difference in pitch, but the pitch is not stable, the circle in the middle appears and the ring around it turns.
When the pitch is far off, nothing is shown.
- ③ Beat indicator**
When using the metronome, the circle moves in time with the beat.
- ④ Markers**
These indicate the currently set functions.

2 – Names and functions of parts

⑤ Pitch name display area

The pitch is shown as a letter with a # or ♭ as necessary.

C	C#	D	E♭	E	F	F#	G	G#	A	B♭	B
---	----	---	----	---	---	----	---	----	---	----	---

During calibration, the first place of decimal point of the standard frequency is shown.

⑥ Parameter value display area

This shows setting values for each mode.

During calibration, the standard frequency is shown.

⑦ Playback position bar/Rec level meter

This shows the current playback position in 5% increments with the entire track being 100%.

This functions as a recording level meter during recording.

⑧ Arrow mark

This appears during playback, fast reverse search playback and recording.

⑨ PLAY indicator

This appears during playback

⑩ Loop indicator

This appears when loop points are set. When setting the loop IN point, the left half of the indicator appears. “◀ ▶” appears when both the loop IN and OUT points are set and loop playback is OFF. The indicator appears to turn during loop playback.

⑪ Remaining memory indicator

This shows the amount of space remaining for recordings. When all segments are shown 100% of the space is remaining. Fewer segments indicate 75%, 50%, 38.5%, 25%, 18%, 10%, 5% and finally 0% remaining.

⑫ ON indicator

This appears when CORRECT mode is active.

3 – Preparation

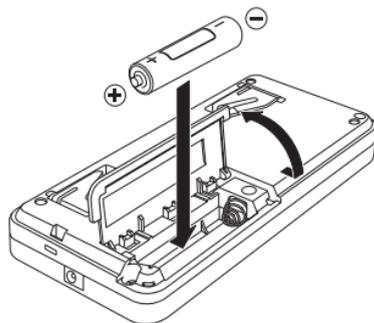
Preparing the power

Powering the unit

This unit can be powered by a single AA battery or a TASCAM PS-P520 AC adaptor (sold separately). Alkaline and nickel metal hydride batteries can be used with this unit.

Using a battery

Open the battery compartment cover on the bottom of the unit, and insert a battery correctly aligned with the + and – indications shown inside the case. Close the battery case cover.



When the battery charge becomes low, “bAt” and “Lo” are shown alternately in the parameter value display area. Change the batteries when you see this warning.

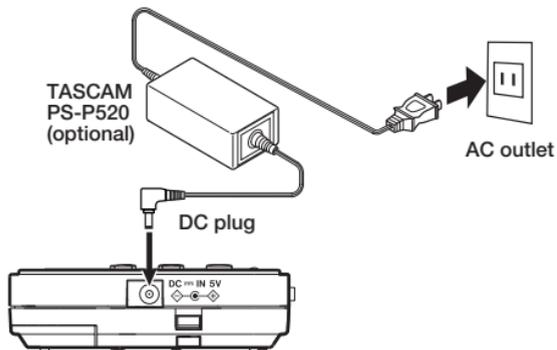
CAUTION

- *This device does not recharge batteries.*
- *The included battery is for confirming the operation of the unit. For this reason it might not last long.*

3 – Preparation

Using an AC adaptor (optional)

Connect a dedicated TASCAM PS-P520 AC adaptor (sold separately) to the **DC IN 5V** jack as shown in the illustration.



CAUTION

When using an AC adaptor, always use the specialized PS-P520 AC adaptor. Use of a different adaptor could cause damage, fire or electrical shock.

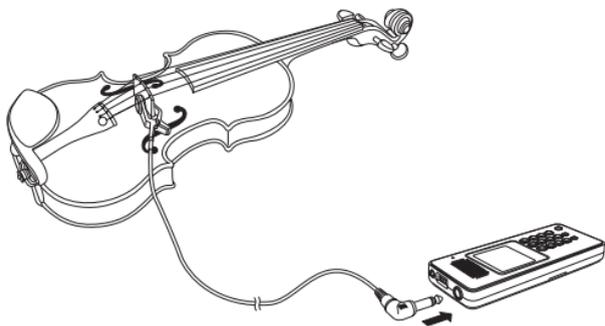
NOTE

- Before connecting an AC adaptor, turn the unit's power OFF temporarily.
- When both batteries are installed and the AC adaptor is connected, power will be supplied from the AC adaptor.

3 – Preparation

Using an external microphone

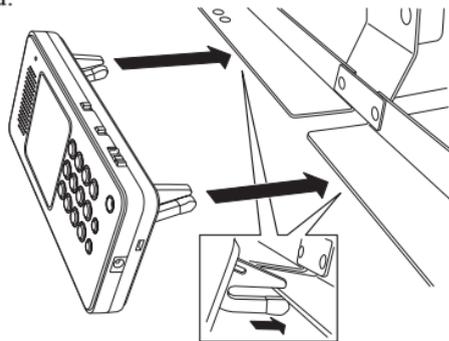
You can connect an external mic that is attached directly to an instrument (contact type), for example, to the **INPUT** jack on the left side panel. When performing with multiple instruments at the same time and in other noisy surroundings that make it difficult to adjust pitch using the built-in mic, using an external mic makes pitch adjustment easier.



Attaching the unit to a music stand

This unit can be attached to a music stand as shown in the following illustration.

Open the built-in stands on the bottom panel of the unit, and attach them by their slits to the music stand.



CAUTION

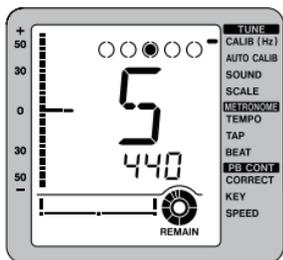
The unit's built-in stands are not designed to attach securely to a music stand. Please be careful when using this unit attached to a stand in order to prevent it from falling off.

4 – Using the Tuner and Pitch Trainer Functions

Calibration

The standard frequency of A can be set manually in a range of 349.0 - 499.0 Hz in 0.1 Hz increments. The default value is 440.0 Hz.

- 1 Press the top MODE key repeatedly until the marker appears on the display next to CALIB (Hz).
- 2 The standard frequency appears in the parameter value (integer part) and pitch name (fractional part) display area. Use the + and – keys to set its value. Press the + and – keys at the same time to set it to 440.0 Hz.



(This example shows “440.5 Hz”.)

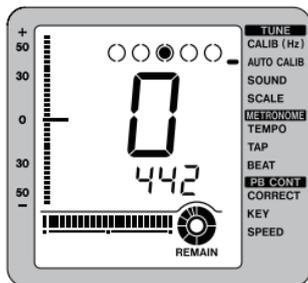
- 3 Press the HOME key to return to the Home Screen.

Auto-calibration

The standard frequency of A can be set to automatically match an input sound in a range of 349.0 - 499.0 Hz in 0.1 Hz increments.

- 1 Press the top MODE key repeatedly until the marker appears on the display next to AUTO CALIB.
- 2 Continuously input a sound to set the standard pitch through the built-in mic or the INPUT jack. The input sound is automatically measured and set as the standard value for A. During calibration, the play position bar moves from left to right. When it stops at the right end, setting is complete.

4 – Using the Tuner and Pitch Trainer Functions



3 Press the HOME key to return to the Home Screen.

NOTE

To change the setting after automatic calibration has been completed, repeat steps one and two above.

CAUTION

- Input a single sound during calibration. Accurate calibration is not possible if multiple sounds are input.
- Input a sound with a steady pitch until calibration completes. Accurate calibration is not possible if the pitch is unstable.

- Accurate calibration is not possible if the sound volume is too quiet or too loud. Adjust the input level using the INPUT GAIN switch on the rear panel.

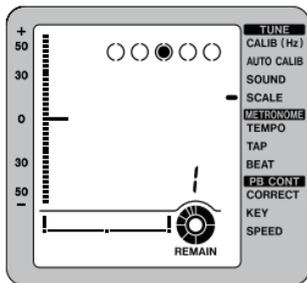
Scales

This unit can be set to use any of the eight following scales.

- 1: 12-note equal temperament
- 2: Pythagorean
- 3: Mean Tone
- 4: Werckmeister III
- 5: Kirnberger III
- 6: Kellner
- 7: Vallotti
- 8: Young

4 – Using the Tuner and Pitch Trainer Functions

- 1 Press the top MODE key until the marker appears next to SCALE.
- 2 A number between 1 and 8 appears in the parameter value display area. The scales that correspond to the numbers 1-8 are also listed on the rear panel of the unit. Use the + and – keys to select the scale. Press the + and – keys at the same time to set it to 12-note equal temperament.

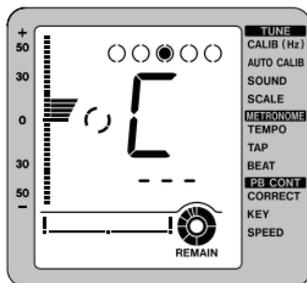


- 3 Press the HOME key to return to the Home Screen.

Tuning an instrument

- Tuning with a microphone (built-in or external)
 - 1 When using the built-in microphone for tuning, do not connect anything to the INPUT jack.
 - 2 Press the HOME key
 - 3 Play a single note on the instrument. The nearest note name is shown in the pitch display area, and the pitch guide bar on the display shows how far out of tune the note is.
 - 4 Tune the instrument until the desired pitch name is shown, the pitch guide bar shows no gap and the pitch guide circle appears.

4 – Using the Tuner and Pitch Trainer Functions



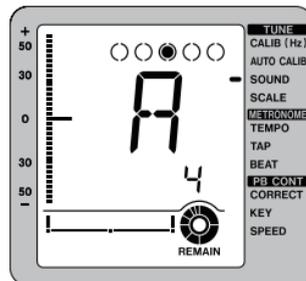
CAUTION

Play only one note at a time to prevent unrelated pitch information from being input. Accurate tuning is not possible if multiple notes are played.

- **Tuning by listening to a selected pitch (sound mode)**
- 1 Set the **SPEAKER** switch to **ON**.
 - 2 Press the top **MODE** key repeatedly until the marker appears on the display next to **SOUND**.
 - 3 Use the **+** and **-** keys to select the note name that you want to use for tuning in a range

from **C2** to **C6** in semitone steps. Press both **+** and **-** keys at the same time to set the note to **A4**.

- 4 Press the **START/STOP** key to make the unit output the note from its speaker. Use the **VOLUME** dial to adjust the output volume.
- 5 Play a single note on the instrument and tune it to the note output from the unit's speaker.

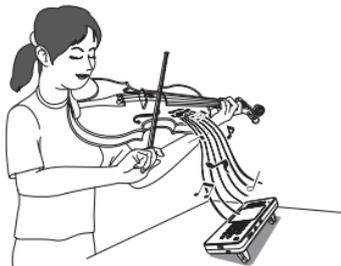


4 – Using the Tuner and Pitch Trainer Functions

Pitch training

When practicing alone in a quiet place, using the built-in microphone might be convenient.

Play the instrument while facing the trainer's built-in mic.



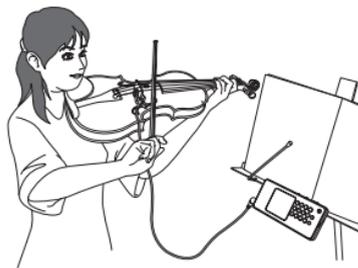
NOTE

Do not connect an external mic if you want to train using the built-in mic.

When training in a place with other performers or that is otherwise noisy, use of an external mic is helpful.

Attach the external mic to your instrument and

connect it to the **INPUT** jack on the left side of the unit.

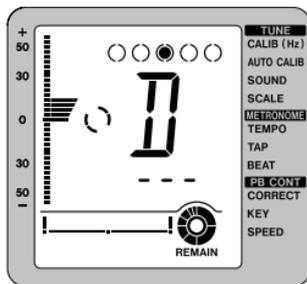


Press the HOME key.

When you start playing, the gap between the standard pitch and the played pitch is shown in real time by the unit's pitch guide bar, the pitch guide circle and the pitch name display area.

Watch these indications while practicing.

4 – Using the Tuner and Pitch Trainer Functions



time while pressing and holding the MODE key, the response speed becomes 0 (default value).

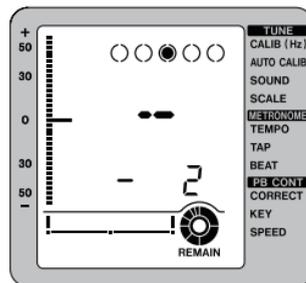
Setting the speed of tuner response

The tuner has five response speeds:

+2 (fastest), +1, 0 (default value), -1 and -2 (slowest).

Press and hold the top MODE key and press the + or - key to show the current response speed. Continue pressing the MODE key, and press the + or - key again to change the response speed.

When you press the + and - keys at the same



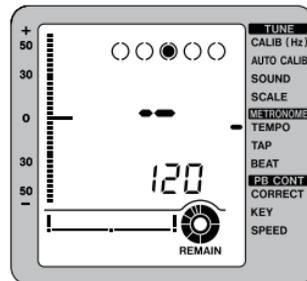
5 – Using the metronome

Set the tempo

- **TEMPO mode**

You can set the tempo manually in a range of 30 - 300 BPM (beats per minute = number of quarter notes in one minute) in 1-BPM increments. The default setting is 120 BPM (♩ = 120).

- 1 Press the second MODE key from the top repeatedly until the marker is shown next to TEMPO on the display.
- 2 The current tempo appears in the parameter value display area. Use the + and – keys to set it. Press the + and – keys at the same time to set it to 120 BPM (default value).



- 3 Press the HOME key to return to the Home Screen.

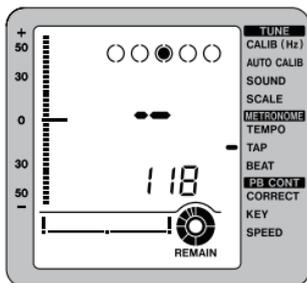
- **TAP mode**

You can set the tempo by tapping the + and – keys.

- 1 Press the second MODE key from the top repeatedly until the marker is shown next to TAP on the display.
- 2 Tap the + and/or – key repeatedly at the desired tempo. The tempo appears in the parameter value display area.

Press the + and – keys at the same time to set it to 120 (default value).

5 – Using the metronome



- 3 Press the HOME key to return to the Home Screen.

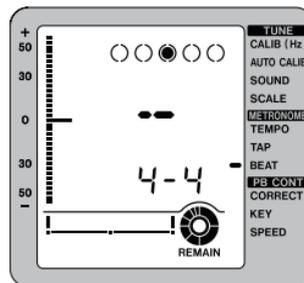
Set the rhythm

The following rhythms can be set with this unit.

- 0–0: Mute
- 1–4: No accent
- 2–4: 2/4 time
- 3–4: 3/4 time
- 4–4: 4/4 time
- 5–4: 5/4 time
- 6–4: 6/4 time

- 7–4: 7/4 time
- 8: Duplets (6/8 time)
- 12: Triplets
- SHU: Triplets with middle beat omitted (shuffle)
- 16: Quadruplets

- 1 Press the second MODE key until the marker appears next to BEAT.
- 2 The rhythm setting is shown in the parameter value display area. Use the + and – keys to change the setting. Press the + and – keys at the same time to set it to 4–4 (4/4 time).



5 – Using the metronome

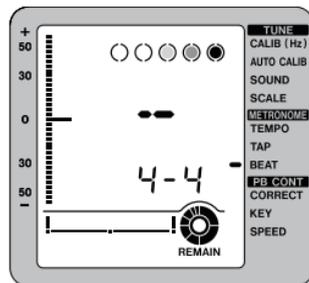
- 3 Press the HOME key to return to the Home Screen.

Starting and stopping the metronome

Press the START/STOP key to start and stop the metronome.

Use the SPEAKER switch on the rear panel to set whether or not the metronome sound is output from the built-in speaker.

When the metronome is started, the metronome sound is output from the speaker. At the same time, the beat indicators on the display move in time with the rhythm.



Use the VOLUME dial to adjust the volume.

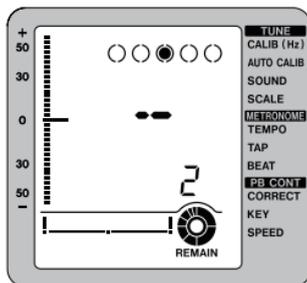
Changing the metronome sound

This unit has two types of metronome sounds.

- 1: Acoustic sound
- 2: Electronic sound

Press and hold the second MODE key from the top and press the + or – key to show the current metronome sound. Continue pressing the MODE key, and press the + or – key again to change the metronome sound.

5 – Using the metronome



6 – Using the recording and playback functions

Using the built-in mic or an external mic, for example, you can record approximately 20 minutes to the internal memory.

A maximum of 99 recorded tracks can be stored at one time.

During the playback of a recorded track, you can change the pitch while maintaining the original speed or change the speed while maintaining the original pitch.

Moreover, you can listen to or play along with the same performance repeatedly using loop playback.

NOTE

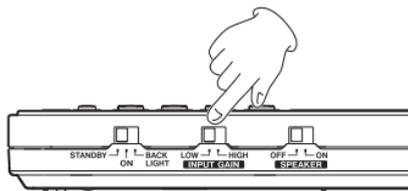
This unit does not show the time. Only the track number is shown on the Home Screen during recording and playback.

Recording

Setting the input level

This trainer has a function that sets the input level to one or two sensitivities to suitably adjust the input signal level to detect pitch and a recording.

Using the INPUT GAIN switch on the rear panel, set the input level to HIGH when the input volume is low or to LOW when the input volume is high.



The recording level meter appears during recording.

6 – Using the recording and playback functions

Recording

Press the RECORD key to start recording when stopped or during playback.

NOTE

- *Recording will start with a new track that is placed numerically after the already recorded tracks.*
- *During recording, the REC indicator lights and the arrow mark on the display appears to flow to the right.*
- *The amount of remaining memory shown on the display decreases according to the recording time.*
- *During recording only the STOP and RECORD keys can be used.*
- *The pitch guide bars can also be used during recording.*
- *The metronome can also be used during recording but we recommend that you use headphones to listen to the metronome when recording with the built-in mic.*

Starting a new track while continuing to record

Press the RECORD key during recording to start a new track from that point and continue recording.

Stopping recording

Press the STOP key to stop recording. Recording also stops automatically if the internal memory capacity becomes full.

Playback

Selecting a track for playback

When stopped or during playback, press the **⏮** and **⏭** keys briefly to select a track for playback.

6 – Using the recording and playback functions

Playing back

Press the ► key to start playback.

Use the VOLUME dial to adjust the playback volume.

NOTE

During playback, input from the built-in microphone or any attached external microphone is disabled.

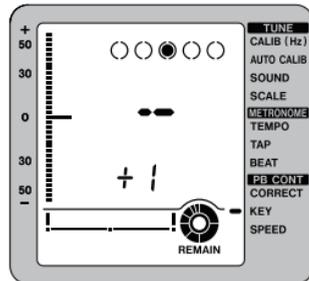
Searching backward/forward

When stopped or during playback, press and hold the ◀◀ and ▶▶ keys to search backward and forward while playing a track.

Changing the pitch without changing the speed during playback

- 1 Press the bottom MODE key repeatedly until the marker appears on the display next to KEY.

- 2 Use the + and – keys to adjust the pitch in semitones. The range of adjustment is ± 6 semitones.



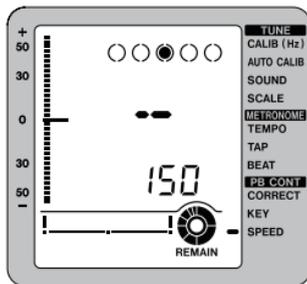
Press the + and – keys at the same time to restore the original key (pitch: default value).

- 3 Press the HOME key to return to the Home Screen.

6 – Using the recording and playback functions

Changing the speed without changing the pitch during playback

- 1 Press the bottom MODE key repeatedly until the marker appears next to **SPEED**.
- 2 Use the + and – keys to adjust the playback speed. The speed can be changed in a range from 50% (half-speed) to 150% in 10% increments.

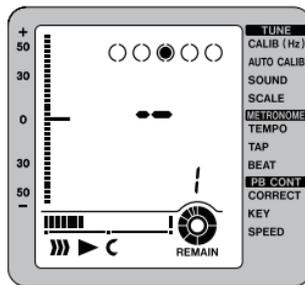


Press the + and – keys at the same time to restore the original speed (100%: default value).

- 3 Press the HOME key to return to the Home Screen.

Loop playback

- 1 Confirm that the loop indicator is not shown. If it is shown, press the IN/OUT key until it disappears.
- 2 Press the IN/OUT key during playback to set the loop IN point. The left side of the loop indicator lights for the IN point underneath the play position bar on the display.



- 3 Press the IN/OUT key again to set the loop OUT point. After the loop OUT point is set,

6 – Using the recording and playback functions

loop playback starts and the loop indicator appears to turn.

To stop loop playback, press either the LOOP or IN/OUT key.

If you press the LOOP key, loop playback stops, but the loop IN and OUT points are retained.

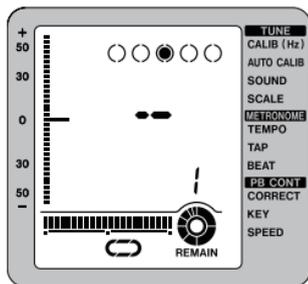
The “ ” loop indicator appears on the screen.

Press the LOOP key again to restart loop playback.

If you press the IN/OUT key, the loop IN and OUT points are discarded.

NOTE

- Set the loop interval to two seconds or longer.
- Set the loop IN and OUT points in the same track.
- Set the loop OUT point after the IN point in the track.

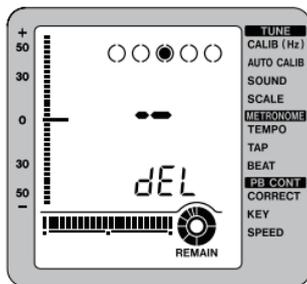


6 – Using the recording and playback functions

Erasing tracks

Erasing only the current track

- 1 When stopped, press the RECORD key while pressing and holding the STOP key. “dEL” appears in the parameter value display area of the LCD, and the playback position bar blinks.



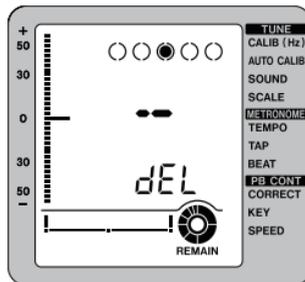
- 2 Press the PLAY key to erase the current track.

NOTE

Press the STOP key instead of the PLAY key to cancel erasing the track.

Erasing all tracks

- 1 When stopped, press the RECORD key while pressing and holding the STOP key. “dEL” appears in the parameter value display area of the LCD, and the playback position bar blinks.



- 2 Press the + or - key. The playback position bar goes off and the remaining memory indicator blinks.

6 – Using the recording and playback functions

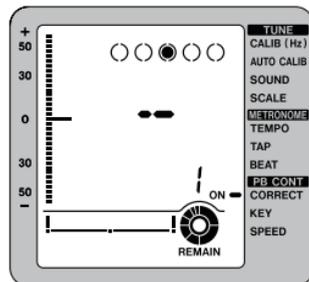
3 Press the **PLAY** key to erase all tracks.

NOTE

- Press the **STOP** key instead of the **PLAY** key to cancel erasing all tracks.
- In step 2, press the + and – keys to set whether only the current track or all tracks are erased.

Automatically correcting the pitch of recordings

- 1 Press the bottom **MODE** key until the marker appears next to **CORRECT**.
- 2 Use the + and – keys to turn this function **ON** and **OFF**. When **ON**, the “**ON**” indicator appears next to the **CORRECT** indicator on the display.



3 Press the **PLAY** key to start playback.

4 The pitch is shown on the display during playback.

Select **OFF** in step 2 above to stop using this mode.

7 – Specifications

Ratings

Scales:

12-note equal temperament, Pythagorean, Mean Tone, Werckmeister III, Kirnberger III, Kellner, Vallotti, Young

Measurement range:

C2 (65.40639 Hz) – B6 (1975.533672 Hz)

Standard output tones:

C2 (65.40639 Hz) – C6 (1046.502247 Hz)

Pitch names:

C, C#, D, Eb, E, F, F#, G, G#, A, Bb, B

Tuning modes:

Automatic (five steps), sound

Calibration range:

349.0 to 499.0 Hz in 0.1-Hz increments

Measurement precision: 1 cent

Tempo range: 30–300 quarter notes (♩)

Time signatures: 1, 2, 3, 4, 5, 6, 7

Recording time: About 20 minutes (1 Gbit)

Sampling frequency: 44.1 kHz

Quantization bit rate: 16

Number of channels: 1 (monaural)

Built-in mic: Omni directional, monaural

Input/output ratings

INPUT connector for contact mic input

Connector: 6.3-mm (1/4") standard jack

PHONES connector:

Connector: 3.5-mm stereo mini jack

Maximum output: 15 mW + 15 mW or more
(THD + N 0.1% or less, 32Ω load)

Built-in speaker:

Output: 0.4 mW (1 kHz, THD + N 1% or less)

7 – Specifications

General

Power:

1 AA battery, or Optional AC adaptor (PS-P520)

Battery life:

Tuner: 12 hours or more (backlight OFF with the pitch “A” input continuously)

Recording: 8 hours or more (backlight OFF with recordings erased when the memory becomes full and recording then restarted)

(When measured with alkaline batteries. Battery life may vary depending on the operating conditions.)

Power consumption:

1 W (backlight on, with an optional AC adaptor PS-P520)

Weight (without battery): 125 g/4.03 oz

Operating temperature range: 5 - 35° C/41 - 95°F

Dimensions (WHD):

150 x 18 x 64 mm/5.91 x 0.71 x 2.52 in
(excluding the projections)

Backup memory

The following settings are saved even when this unit's power is turned OFF.

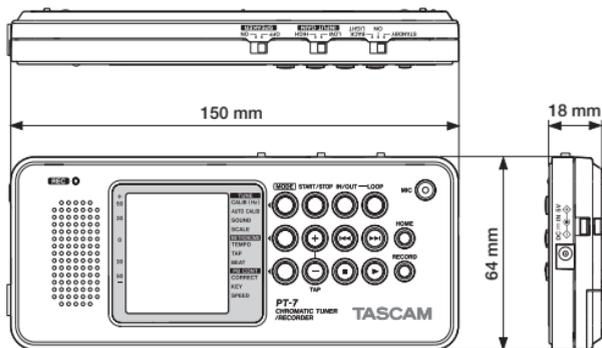
However, settings are saved about two seconds after they are made, so wait at least two seconds after making a setting before turning the power OFF.

- Calibration value
- Sound output in sound mode
- Scale
- Tuner response speed
- Metronome sound type
- Tempo
- Time signature

7 – Specifications

- Playback pitch
- Playback speed
- Loop points

Dimensional drawings



- Illustrations and other depictions may differ in part from the actual product
- Specifications and external appearance may be changed without notification to improve the product.

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