

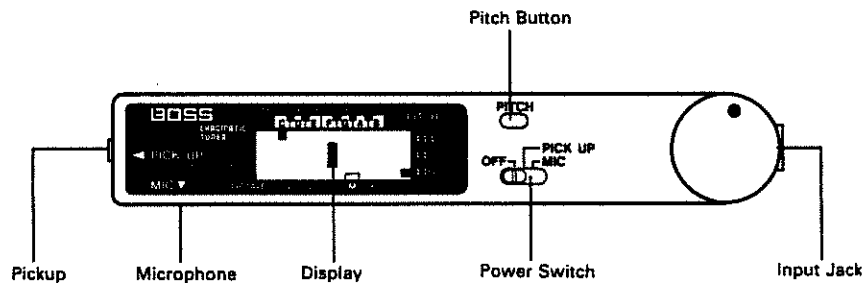
BOSS TU-12P CHROMATIC TUNER

Chromatic Tuner



INSTRUCTIONS

■ PANEL DESCRIPTION



■ OPERATION

a) Using the built-in Microphone

① To tune an acoustic musical instrument using the built-in microphone, set the Power Switch to MIC position. (The TU-12P is turned on).

② Put the instrument close to the microphone and play it.

* Be sure to play single note.

b) Using the built-in Pickup

① To tune an electric guitar using the built-in pickup, set the Power Switch to the PICK UP position. (The TU-12P is turned on.)

② Put the guitar close to the pickup and play it.

* Be sure to play single note.

c) Using the Input Jack

① To tune an electronic/electric musical instrument through the Input Jack, set the Power Switch to either PICK UP or MIC. (The TU-12P is turned on.)

② Play the instrument.

* Be sure to play single note.

[How to look at the Note Name Display]

e.g. 1: When ■ is shown under the letter E, the played pitch is very close to E note.



e.g. 2: When ■ appears between G and A, the played pitch is close to G#.



Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

BOSS CHROMATIC TUNER TU-12P

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

Amtsbl. Vfg 1046 / 1984

(Amtsblattverfügung)

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Roland Corporation Osaka/Japan

Name des Herstellers/Importeurs

[How to look at the Octave Display]

e.g. 1: When ■ appears above "-1", the played pitch is somewhere between C3 to B3.



e.g. 2: When □ appears above M, the played pitch is somewhere between C4 to B4.

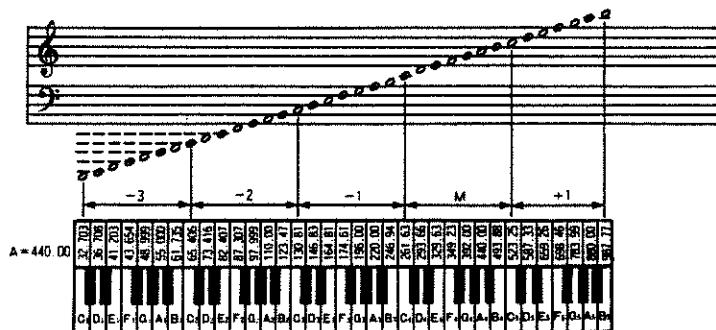


[How to select a Standard Pitch]

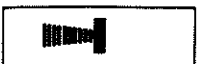
The standard pitch is indicated as ■ shown at the far-right of the Display. (It is set to A=440Hz at power-up.)

▶ Pushing the Pitch Button will alter the pitch in 1Hz steps up to 444Hz.

* When the TU-12P is turned off and on again, the standard pitch is returned to A=440Hz.



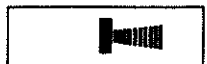
[How to look at the Tuning Display]



Too low: Raise Pitch



Tuned



Too high: Lower Pitch



Undiscernible

How to tune the Guitar

Play the string to be tuned, adjust the string so that the relevant note name is indicated, then make finer adjustment with the aid of the tuning display. The number shown above each note name represents the string number (1 to 6). When tuning an electric bass guitar, relevant string numbers are 3 to 6.

If one string is tuned and the other ones are very loose, the tuned string may become slacken after the other strings are tuned, lowering the pitch of the tuned string. (This occurs frequently on the guitar featuring an arm.) To resolve this, tune all the strings roughly, matching the note names only, then make finer tuning.

■ About the built-in Pickup

The built-in pickup of the TU-12P uses the magnetic force of the pickups on an electric guitar, and therefore cannot be used for a guitar that does not have pickups, such as a gut-guitar or folk-guitar, or a guitar with piezo-electric pickups.

■ About the built-in Microphone

The built-in microphone of the TU-12P is highly sensitive, therefore the display becomes unstable by picking irrelevant sounds other than the instrument to be tuned. Be sure the instrument is close to the microphone.

■ BATTERY REPLACEMENT

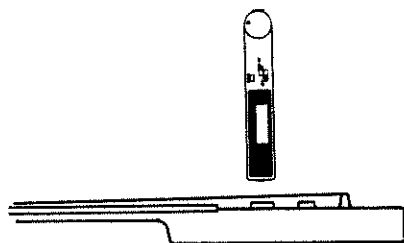
When the display becomes dimmer, replace the battery with a new one.

To avoid wasting battery, set the Power Switch to the OFF position when the tuner is not to be used.

■ IMPORTANT NOTE

- When the unit is not to be used for a long period of time, remove the battery from the battery housing to prevent the trouble caused by battery leakage.
- Avoid using this unit in extreme heat, humidity or where it may be affected by dust, direct sunlight or vibration.
- Use a mild detergent and soft cloth for cleaning. Do not use solvents such as thinner.

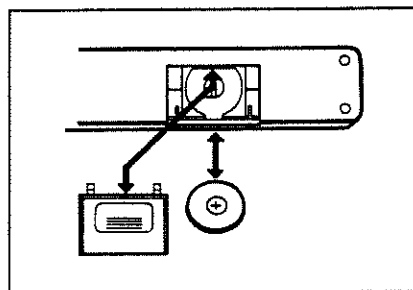
- * It is possible to tune a guitar even with its volume turned down.



[How to replace the battery]

Use a manganese lithium battery (CR 2032 3V).

- ① Push down the cover of the battery housing at the bottom of the unit, then remove it by sliding it outward.
- ② Take out the exhausted battery, and place a new battery. (Be sure that the polarity is correct.)
- ③ Replace the cover securely.



RADIO AND TELEVISION INTERFERENCE

Warning – This equipment has been verified to comply with the limits for a Class B computing device, pursuant to Subpart J, of Part 15, of FCC rules. Operation with non-certified or non-verified equipment is likely to result in interference to radio and TV reception.

The equipment described in this manual generates and uses radio-frequency energy. If it is not installed and used properly, that is, in strict accordance with our instructions, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J, of Part 15, of FCC Rules. These rules are designed to provide reasonable protection against such an interference in a residential installation. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by the following measure:

- Disconnect other devices and their input/output cables one at a time. If the interference stops, it is caused by either the other device or its I/O cable. These devices usually require Roland designated shielded I/O cables. For Roland devices, you can obtain the proper shielded cable from your dealer. For non Roland devices, contact the manufacturer or dealer for assistance.

If your equipment does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures:

- Turn the TV or radio antenna until the interferences stops.
- Move the equipment to one side or the other of the TV or radio.
- Move the equipment farther away from the TV or radio.
- Plug the equipment into an outlet that is on a different circuit than the TV or radio. (That is, make certain the equipment and the radio or television set are on circuits controlled by different circuit breakers or fuses.)
- Consider installing a rooftop television antenna with coaxial cable lead-in between the antenna and TV.

If necessary, you should consult your dealer or an experienced radio/television technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission:

"How to Identify and Resolve Radio-TV Interference Problems"

This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

ADVARSEL!

Lithiumbatteri. Eksplosionsfare.
Udskiftning må kun foretages af en sagkyndig,
og som beskrevet i servicemanual.

ADVARSEL!

Lithiumbatteri. Fare for eksplosion.
Må bare skiftes av kvalifisert tekniker som
beskrevet i servicemanualen.

VAROITUS!

Lithiumparisto. Räjähdyksvaara.
Pariston saa vaihtaa ainoastaan
alan ammottimies.

VARNING!

Lithiumbatteri. Explosionsrisk.
Får endast bytas av behörig servicetekniker.
Se instruktioner i servicemanualen.

■ SPECIFICATIONS

Power	: Manganese lithium battery CR2032 (3V DC) × 1
Consumption	: 2mA
Tuning Range	: C1 (32.70Hz) to B5 (987.77Hz)
Accuracy	: ± 1 cent
Master Oscillator	: Quartz
Standard Pitch	: 440 to 444Hz (1Hz step)
Switch	: Power/Mode
Jack	: Input
Microphone	: Condenser Microphone
Dimensions	: 147 (W) × 18 (H) × 25 (D) mm / 5-13/16" × 11/16" × 1"
Weight	: 45g / 2 oz

TU12P INSTRUCTION MANUAL

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Products of Roland

* Specifications are subject to change without notice.

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