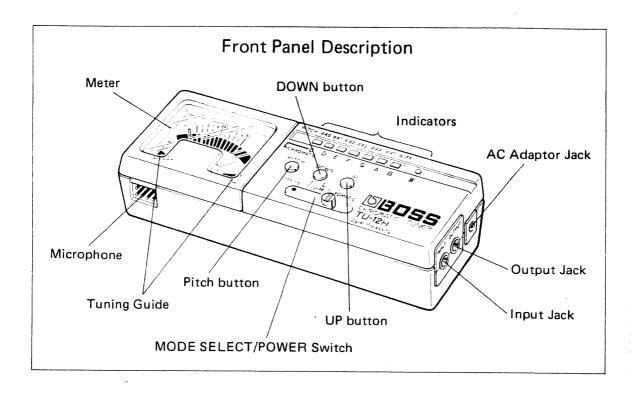
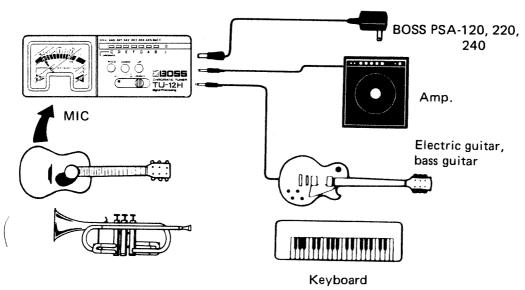


INSTRUCTION MANUAL

CHROMATIC TUNER TU-12H



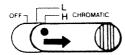
Connecting Chart



Depending on the location in which it is used, the TU-12H may respond to ambient hum or noise, simply due to the fact that a guitar is connected to its Input jack, even though the guitar's volume is set to "0." This occurs because the TU-12H is designed to be highly sensitive, allowing it to provide the greatest accuracy when tuning. Thus, this behavior is normal, and does not indicate a malfunction.

OPERATION

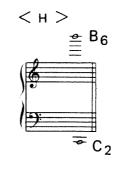




Set the MODE SELECT/POWER Switch to **L** or **H**.

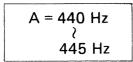
TUNING RANGE



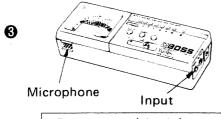


At the range of L, TU-12H is available from C1 to B5. At the range of H, TU-12H is available from C2 to B6. In the tuning range from C2 to B5, either position L or H, can be selected, but preferably use the position L. At the position of H, it tends to take longer time to indicate lower tone, and/or have unstable indication.





Select the pitch. The **TU-12H** has the preset pitch, **A=440Hz**. (Refer to "**Selection** of pitch")

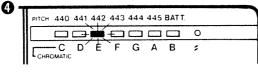


Produce a (single) tone.

- a) If tuning the acoustic instrument, put it close to the Microphone.
- b) If tuning the electronic/electric instrument, connect it to the Input Jack by using a connecting cord.

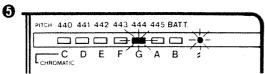
The indicator nearest to that tone will flash.

<How: to check a tone with the Indicators>





(Example 1) If the Indicator above "E" lights as shown in the figure, it means the tone produced is near "E".



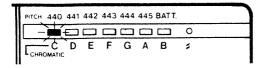
(Example 2) If the Indicators above "**G**" and "#" light simultaneously, it means the tone near "**G**#" is produced.

0

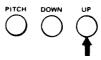
Now start tuning.

Tune it referring to **How to check a tone** with Meter and Tuning Guide mentioned later.

Selection of Pitch



While you hold the Pitch button down, the Indicator will blink showing that the preset pitch is **A=440Hz**.

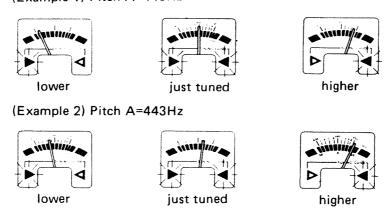


Select the desired pitch by pressing the **UP** (or **DOWN**) button while the Pitch button is held down. The blinking of the Indicator will case when you release the Pitch button. However, the selected pitch will remain until the POWER Switch is turned off.

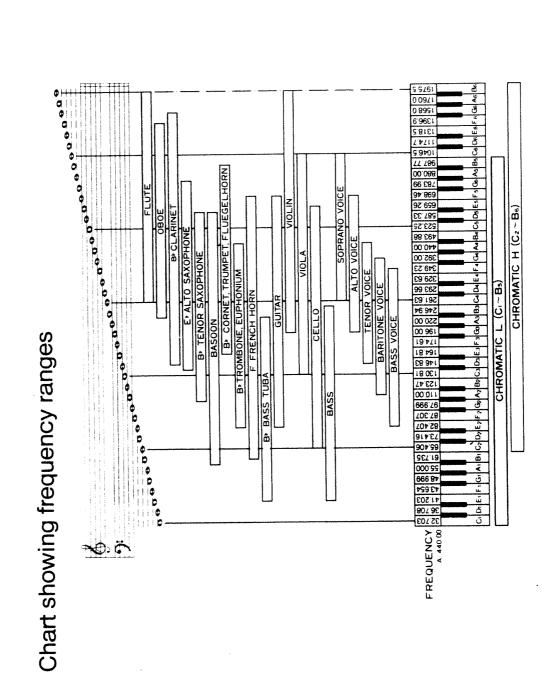
How to check a tone with Meter and Tuning Guide

When a tone is produced, the Indicator shows the name of the tone $(\mathbf{C} \sim \mathbf{B})$ and the Meter shows its pitch at the same time.

(Example 1) Pitch A=440Hz

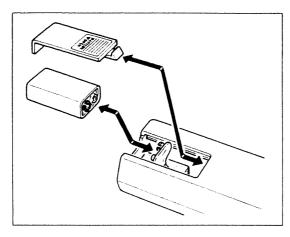


If you need Pitch of A=430 \sim 440Hz or A=445 \sim 450Hz, tune the instruments according to the meter of TU-12H, disregarding Tuning Guide Indicators.



Battery Replacement (9V x 1)

If the indicator above **B** starts flashing during operation, proper tuning function is no longer available. Please replace the battery with a new one.



How to replace the battery

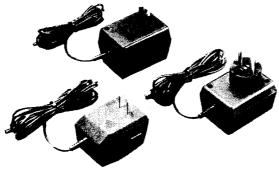
- 1 Remove the lid of the Battery Housing.
- 2 Take out the battery and separate it from the Battery Connector.
- 3 Place a new battery. (Be sure that the polarity is correct.)
- 4 Close the lid securely.

Important

• If the TU-12H is not to be used for a long time, remove the battery to prevent the trouble caused by battery leakage.

AC Adaptor

For AC operation, be sure to use the BOSS AC Adaptor PSA-120, 220 or 240 depending on the voltage system in your country, and never use one Adaptor for two units simultaneously.



- IN: 120, 220, 240V
- OUT: 9V 200mA

Note

- If the B indicator starts flashing while the TU-12H is being operated with the AC Adaptor, tuning is not possible. If this happens, turn the TU-12H off, then turn it on again.
- When an amplifier is connected to the TU-12H, set the POWER switch of the TU-12H to OFF immediately after tuning is completed to avoid unnecessary consumption of the battery. Moreover, increasing the volume of the amplifier with the TU-12H on may cause noise.



This product complies with the requirements of European Directive 89/336/EEC.

-For Germany

Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

in Übereinstimmung mit den Bestimmungen der

TU-12H CHROMATIC TUNER

Amtsbl. Vfg 1046 / 1984

(Gerät, Typ, Bezeichnung)

(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

-For the USA -

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

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 instructions, 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:

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

Unauthorized changes or modification to this system can void the users authority to operate this equipment. This equipment requires shielded interface cables in order to meet FCC class B Limit.

- For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

SPECIFICATIONS

Power Consumption Max. 20 mA

Accuracy ±1 cent

Master Oscillator Quartz (4.0 MHz)

5-7/16 (W) x 1-3/8 (H) x 2-1/16 (D) inches

Weight 170 g / 6 oz

Accessories Instruction Manual, Roland Service

^{*} In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

26020812 '02-3-AB3-25SK(BO)

Roland® 2602081200

UPC

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