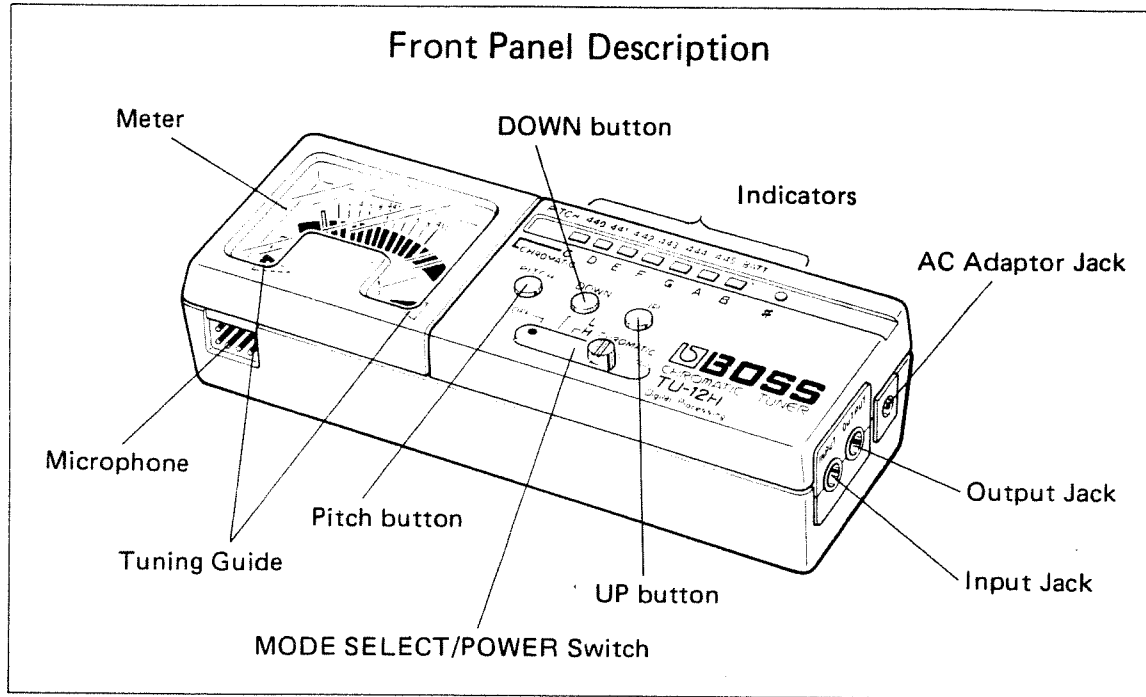




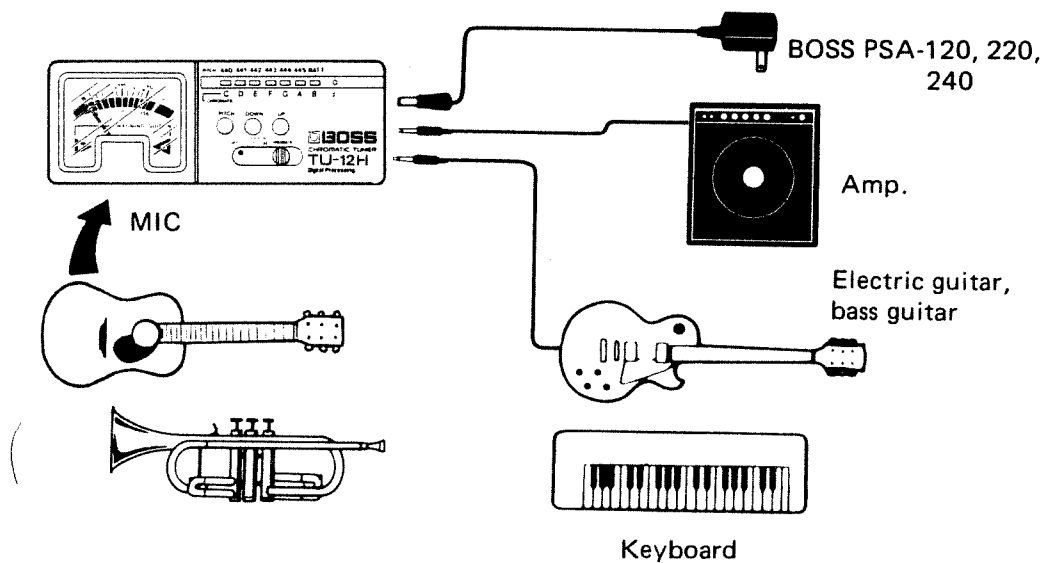
INSTRUCTION
MANUAL

CHROMATIC TUNER
TU-12H

Front Panel Description

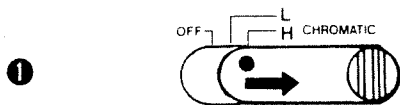


Connecting Chart



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



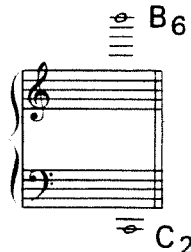
Set the MODE SELECT/POWER Switch to **L** or **H**.

TUNING RANGE

< L >



< H >



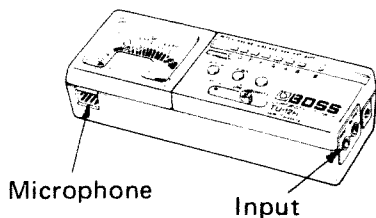
At the range of **L**, **TU-12H** is available from **C1** to **B5**. At the range of **H**, **TU-12H** is available from **C2** to **B6**. In the tuning range from **C2** to **B5**, either position **L** or **H**, can be selected, but preferably use the position **L**. At the position of **H**, it tends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

②

A = 440 Hz
?
445 Hz

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

③



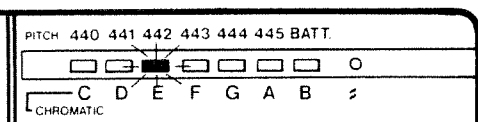
- If tuning the acoustic instrument, put it close to the Microphone.
- If tuning the electronic/electric instrument, connect it to the Input Jack by using a connecting cord.

Produce a (single) tone.

The indicator nearest to that tone will flash.

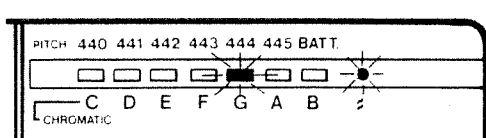
<How to check a tone with the Indicators>

④



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

⑤



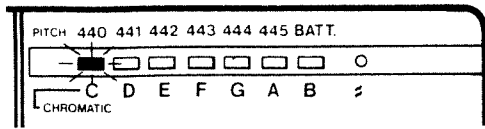
(Example 2) If the Indicators above "G" and "#" light simultaneously, it means the tone near "G#" is produced.

⑥

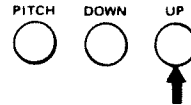
Now start tuning.

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**.

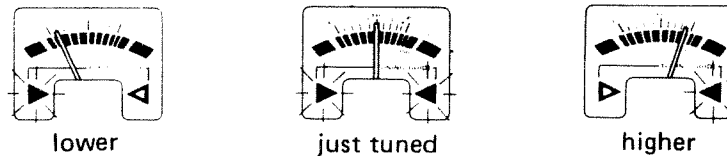


Select the desired pitch by pressing the **UP** (or **DOWN**) button while the Pitch button is held down. The blinking of the Indicator will cease when you release the Pitch button. However, the selected pitch will remain until the POWER Switch is turned off.

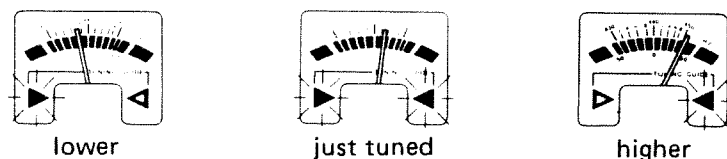
How to check a tone with Meter and Tuning Guide

When a tone is produced, the Indicator shows the name of the tone (**C~B**) and the Meter shows its pitch at the same time.

(Example 1) Pitch A=440Hz

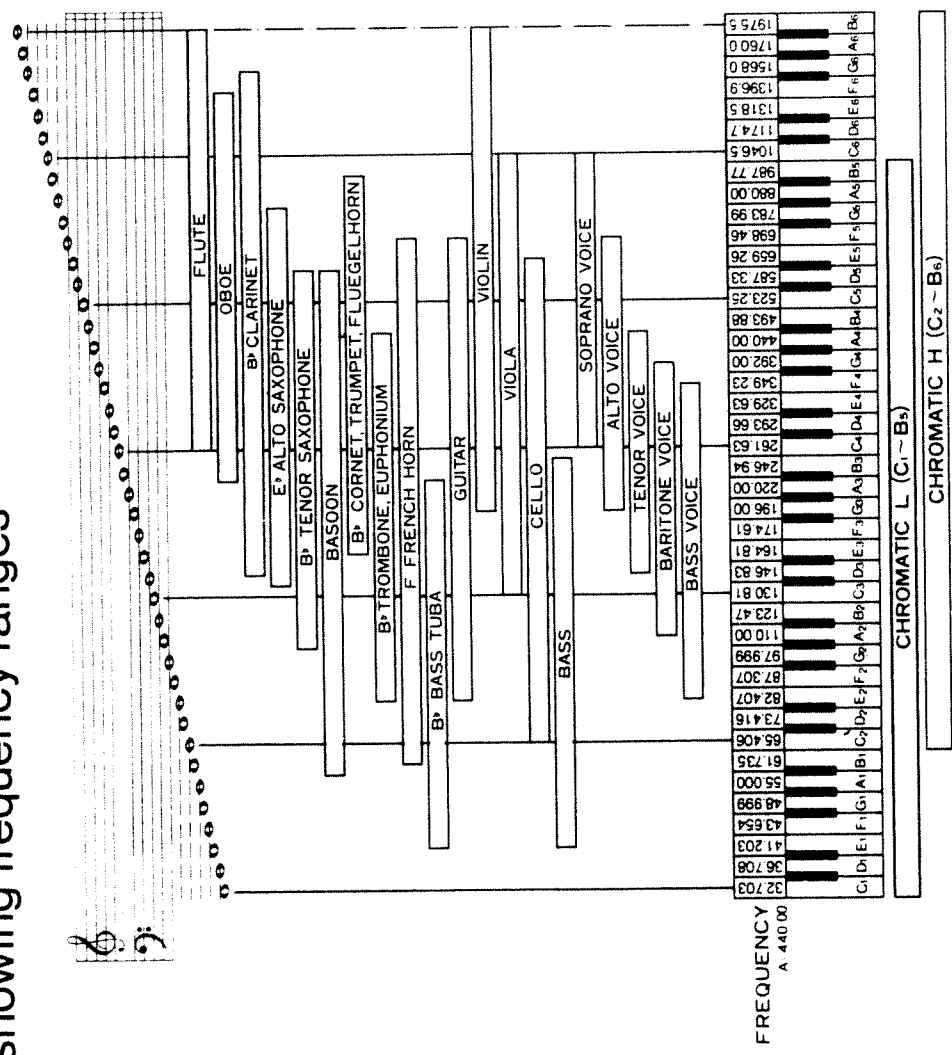


(Example 2) Pitch A=443Hz



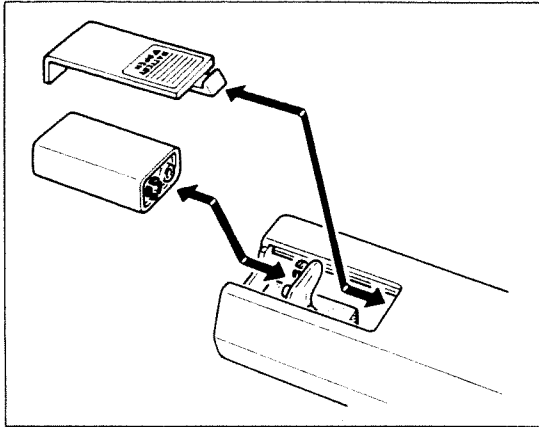
If you need Pitch of A=430~440Hz or A=445~450Hz, tune the instruments according to the meter of TU-12H, disregarding Tuning Guide Indicators.

Chart showing frequency ranges



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

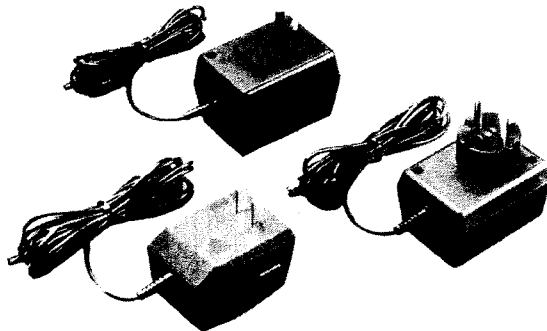
- 1 Remove the lid of the Battery Housing.
- 2 Take out the battery and separate it from the Battery Connector.
- 3 Place a new battery. (Be sure that the polarity is correct.)
- 4 Close the lid securely.

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.

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