

Pitchblack
POLYPHONIC TUNER
PORTABLE

Precautions

Location

Using the unit in the following locations can result in a malfunction.

- In direct sunlight
- Locations of extreme temperature or humidity
- Excessively dusty or dirty locations
- Locations of excessive vibration
- Close to magnetic fields

Power supply

Please connect the designated AC adapter to an AC outlet of the correct voltage. Do not connect it to an AC outlet of voltage other than that for which your unit is intended.

Interference with other electrical devices

Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

Handling

To avoid breakage, do not apply excessive force to the switches or controls.

Care

If the exterior becomes dirty, wipe it with a clean, dry cloth. Do not use liquid cleaners such as benzene or thinner, or cleaning compounds or flammable polishes.

Keep this manual

After reading this manual, please keep it for later reference.

Keeping foreign matter out of your equipment

Never set any container with liquid in it near this equipment. If liquid gets into the equipment, it could cause a breakdown, fire, or electrical shock.

Be careful not to let metal objects get into the equipment. If something does slip into the equipment, unplug the AC adapter from the wall outlet. Then contact your nearest Korg dealer or the store where the equipment was purchased.

THE FCC REGULATION WARNING (for USA)

NOTE: 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.

If items such as cables are included with this equipment, you must use those included items. Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

Notice regarding disposal (for EU)

When this "crossed-out wheeled bin" symbol is displayed on the product, owner's manual, battery, or battery package, it signifies that when you wish to dispose of this product, manual, package or battery you must do so in an approved manner. Do not discard this product, manual, package or battery along with ordinary household waste. Disposing in the correct manner will prevent harm to human health and potential damage to the environment. Since the correct method of disposal will depend on the applicable laws and regulations in your locality, please contact your local administrative body for details. If the battery contains heavy metals in excess of the regulated amount, a chemical symbol is displayed below the "crossed-out wheeled bin" symbol on the battery or battery package.

* All product names and company names are the trademarks or registered trademarks of their respective owners.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Complies with Canadian ICES-003 Class B.
Conforme au Règlement Canadian NMB-003 classe B.

NOTA IMPORTANTE PARA EL CONSUMIDOR

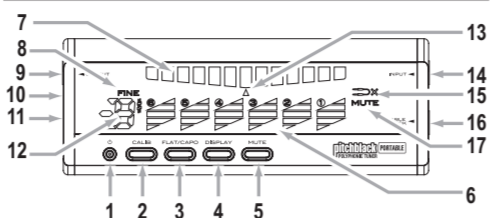
Este producto ha sido fabricado de acuerdo a estrictas especificaciones y requerimientos de voltaje aplicables en el país para el cual está destinado. Si ha comprado este producto por internet, a través de correo, y/o venta telefónica, debe usar verificor que el uso de este producto está destinado al país en el cual reside.

AVISO: El uso de este producto en un país distinto al cual está destinado podría resultar peligroso y podría invalidar la garantía del fabricante o distribuidor.

Por favor guarde su recibo como prueba de compra ya que de otro modo el producto puede verse privado de la garantía del fabricante o distribuidor.

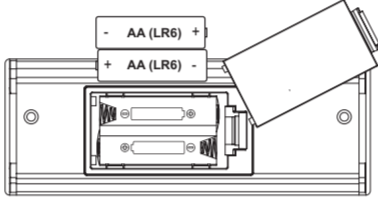
Thank you for purchasing the Korg **pitchblack PORTABLE** polyphonic tuner. To help you get the most out of your new instrument, please read this manual carefully.

Controls



1. STANDBY/ON button
2. CALIB button
3. FLAT/CAPO button
4. DISPLAY button
5. MUTE button
6. Polyphonic Meter Display
7. Meter Display
8. FINE LED
9. OUTPUT jack (mono)
10. DC 9V IN jack
11. DC 9V OUT jack
12. Display
13. TUNER ON LED
14. INPUT jack (mono)
15. CABLE CHECK LED
16. CABLE CHECK jack
17. MUTE LED

Installing the battery



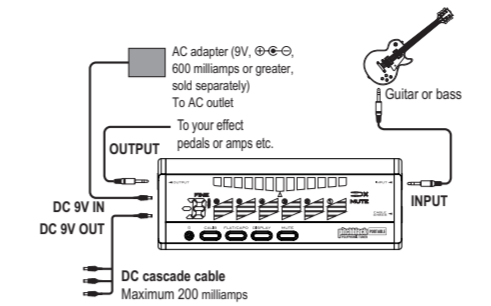
1. Open the battery cover that's located on the bottom of the tuner.

2. Install the batteries making sure that the polarity is correct.

3. Once the batteries are installed, close the cover.

- ▲ When the battery nears the end of its life, the TUNER ON LED will blink. When this happens, install a new battery as soon as possible.

Connections



- ▲ Turn off the power to all devices before you connect an instrument to avoid damaging your equipment.
- ▲ The INPUT, CABLE CHECK and OUTPUT jacks are mono. Stereo (TRS) jacks will not work.

INPUT jack

Connect a cable from your instrument to the INPUT jack of the tuner.

OUTPUT jack

Connect a cable from the OUTPUT jack to your effect pedals or amp etc.

The signal that is input from the INPUT jack passes through the buffer and is output to the OUTPUT jack. By pressing the MUTE button, you can enable or disable the mute function for the signal that is output from the OUTPUT jack. When the mute function is enabled, the MUTE LED will light up and the signal will not be output from the OUTPUT jack.

TIP When the tuner is in the standby power mode, the signal will not be output from the OUTPUT jack.

DC 9V IN jack

If you use an optional AC adapter for power, be sure that it is 9 volt (⊕ ⊖) and at least 600 mA.

- ▲ Using an AC adapter other than what Korg recommends may cause a malfunction or damage.

DC 9V OUT jack

If you're using an optional AC adapter, you can supply power to more than one effect pedal with an optional DC cascade cable.

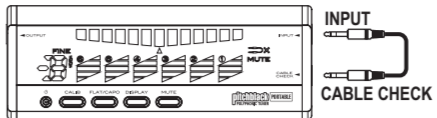
- ▲ When using an optional DC cascade cable, make sure that the total amount of current consumption for the connected pedals does not exceed 200 mA. Furthermore, pay attention to the required polarity of the effect pedals when connected.

- ▲ Do not connect the AC adapter to the DC 9V OUT jack. Doing so will cause a malfunction or damage.

- ▲ If the pitchblack PORTABLE is activated using a battery, you cannot supply power from the DC 9V OUT jack.

Cable check jack

Connect one end of a mono standard phone cable to the INPUT jack and the other end to the CABLE CHECK jack.



When the cable is connected, the cable check function will start and the results will be shown on the CABLE CHECK LEDs.

Normal:	
Disconnected or short circuit:	

TIP Stereo cables cannot be checked.

Tuning

1. Connect your instrument to the INPUT jack.

2. Press the STANDBY/ON button to turn on the power. The TUNER ON LED will light up and the calibration settings (0-9) and flat/capo settings (-5-7) will appear in order on the display for a few seconds (lights up → blinks).

TIP If no user input is performed for up to 4 hours, the tuner will enter the standby power mode automatically.

3. Set the calibration, flat/capo setting, and meter display setting as necessary.

4. Play all the open strings on your instrument, and tune them so that the green LED in the polyphonic meter display lights up. When you tune a string, the tuner will detect the string that you're currently tuning, and will show its precise pitch in the meter display.

TIP You can turn off the meter display by holding down the DISPLAY button for one second or longer.

TIP The tuner will automatically detect whether your instrument is a guitar or a 4/5/6-string bass. With normal tuning, the tuner will indicate E, A, D, G, B, E (from thick to thin strings) for a guitar. For a bass, the tuner will indicate Low-B, E, A, D, G, Hi-C.



Guitar E A D G B E
Bass Low-B E A D G Hi-C

5. If you want to tune a single note on your instrument, tune while watching the meter display. The display will indicate the note name that is closest to the pitch you input.

Adjusting the calibration

The pitchblack PORTABLE comes from the factory with the calibration set to A=440Hz. If an adjustment is necessary, you can do so within a range of 436-445Hz.

1. Press the CALIB button.

The calibration indication "C" will appear, and then the current value will be shown in the display for several seconds.

2. While the current calibration setting is shown in the note name display, press the CALIB button again to adjust the setting. Each time you press the CALIB button you will cycle through the following settings.

0: 440 Hz, 1: 441 Hz, 2: 442 Hz, 3: 443 Hz, 4: 444 Hz, 5: 445 Hz, 6: 436 Hz, 7: 437 Hz, 8: 438 Hz, 9: 439 Hz

3. When you have selected the desired calibration setting, wait approximately two seconds without pressing any buttons. The new setting will blink several times in the note name display indicating that the calibration has been set. The pitchblack PORTABLE will automatically return to tuner mode.

Flat/capo settings

You can use flat, drop D, and capo settings.

With the factory settings, "0: Normal tuning" is selected.

1. Press the FLAT/CAPO button.

The flat/capo indication "F" will appear, and then the current setting will be shown in the display for several seconds (lit → blinking).

2. While this setting is shown, press the FLAT/CAPO button to select the desired flat or capo setting.

You can specify the number of semi tones by which the pitch is raised or lowered. You can also specify drop D tuning (only the guitar's 6th string is tuned to D).

0: Normal tuning
-1: Lowered one semitone ... -5: Lowered five semitones (flat tuning)
D: Drop D tuning
1: Raised one semitone ... 7: Raised seven semitones (capo support)

3. When you've made the desired setting, wait for two seconds without pressing any buttons.

The display indication will blink several times, and the flat/capo setting will be made. The tuner will then return to its normal state, allowing you to tune.

TIP Since the note name indicated in the display when a single note is detected reflects the flat/capo settings, flat/capo tuning can be performed by tuning to the same note as with normal tuning, even if flat/capo settings have been made. (However, this excludes drop D tuning.)

Meter display setting

You can specify the display pattern that's shown in the meter's display. You can choose one of three patterns. With the factory settings, "1: Regular meter" is selected.

1. Press the DISPLAY button.

The current setting is shown for several seconds in the display (lit → blinking).

2. While this setting is shown, press the DISPLAY button to select the desired display pattern. The setting will change each time you press the button.

1: Regular meter



Tune your instrument so that the center LED of the meter display is lit up. The LED illumination will move from the center toward the right if the note is sharp, or from the center toward the left if the note is flat.

2: Strobe meter



Tune your instrument so that the illumination stops flowing in the meter display. The illumination will flow from left to right if the note is sharp, or from right to left if the note is flat. When functioning as the strobe meter, the FINE LED will light up and the differences in the 0.1 cent pitch can be displayed.

3: Half-strobe meter



Tune your instrument so that the stream stops and only the center LED is lit up. The right side of the meter display will strobe if the note is sharp, and the left side of the meter display will strobe if the note is flat. When the pitch is correct, only the center LED will light up.

3. When you've chosen the desired setting, wait for two seconds without pressing any buttons.

The display indication will blink several times, and the meter display setting will be made. The tuner will then return to its normal state, allowing you to tune.

Specifications

Tuning: 12-note equal temperament
Detection range: E0 (20.60 Hz)–C8 (4186 Hz), sine wave
Calibration range: A4 = 436–445 Hz (1 Hz steps)
Detection accuracy: ±0.1 cent
Input impedance: 1 M-ohm (tuner on)

Connects: INPUT jack, OUTPUT jack, CABLE CHECK jack, DC 9V IN jack, DC 9V OUT jack (Maximum 200 milliamps)

Power supply: two AA batteries (LR6) or AC adapter (9 V, ⊕ ⊖, 600 milliamps or greater) approximately 15 hours continuous use with tuner on (LR6, Polyphonic input continuously, Regular meter)

Battery life: maximum 130 mA
Dimensions (W x D x H): 161mm x 60mm x 33mm / 6.34" x 2.36" x 1.30" (including rubber feet)

Weight: 268g / 9.45 oz. (including battery)

Included items: two AA batteries

Options (sold separately): AC adapter (9V, ⊕ ⊖, 600 milliamps)

* Appearance and specifications are subject to change without notice for improvement.

REMARQUE IMPORTANTE POUR LES CLIENTS
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WICHTIGER HINWEIS FÜR KUNDEN

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This product has been manufactured according to strict specifications and voltage requirements that are applicable in the country in which it is intended that this product should be used. If you have purchased this product via the internet, through mail order, and/or via a telephone sale, you must verify that this product is intended to be used in the country in which you reside.
WARNING: Use of this product in any country other than that for which it is intended could be dangerous and could invalidate the manufacturer's or distributor's warranty. Please also retain your receipt as proof of purchase otherwise your product may be disqualified from the manufacturer's or distributor's warranty.

