

PFX-9003

Palmtop Effects Processor

Operation Manual

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Safety Precautions

In this manual, symbols are used to highlight warnings and cautions for you to read so that accidents can be prevented. The meanings of these symbols are as follows:



This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device incorrectly, serious injury or death could result.



This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device incorrectly, bodily injury and damage to the equipment could result.

Please observe the following safety tips and precautions to ensure hazard-free use of the PFX-9003.

Power requirements



Since power consumption of this unit is fairly high, we recommend the use of an AC adapter whenever possible. When powering the unit from batteries, use only alkaline types.

[AC adapter operation]

- Be sure to use only an AC adapter which supplies 9 V DC, 300 mA and is equipped with a "center minus" plug (ZoomAD-0006). The use of an adapter other than the specified type may damage the unit and pose a safety hazard.
- Connect the AC adapter only to an AC outlet that supplies the rated voltage required by the adapter.
- When disconnecting the AC adapter from the AC outlet, always grasp the adapter itself and do not pull at the cable.
- When not using the unit for an extended period, disconnect the AC adapter from the AC outlet.

[Battery operation]

- Use four conventional IEC R03 (size AAA) batteries (alkaline).
- The PFX-9003 cannot be used for recharging.
- Pay close attention to the labelling of the battery to make sure you choose the correct type.
- When not using the unit for an extended period, remove the batteries from the unit.
- If battery leakage has occurred, wipe the battery compartment and the battery terminals carefully to remove all remnants of battery fluid.
- While using the unit, the battery compartment cover should be closed.

Environment



Avoid using your PFX-9003 in environments where it will be exposed to:

- Extreme temperature
- High humidity or moisture
- Excessive dust or sand
- Excessive vibration or shock

Handling



Since the PFX-9003 is a precision electronic device, avoid applying excessive force to the switches and buttons. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.

Alterations



Never open the case of the PFX-9003 or attempt to modify the product in any way since this can result in damage to the unit.

Connecting cables and input and output jacks



You should always turn off the power to the PFX-9003 and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all cables and the AC adapter before moving the PFX-9003.

Introduction

Thank you for selecting the ZOOM PFX-9003 Palmtop Effects Processor (simply called the "PFX-9003" in this manual).

This product is a sophisticated device with the following features:

- **Multiple effects in a palm-sized unit**

Although the PFX-9003 is extremely compact and weighs a mere 130 grams (without batteries), it offers a host of sophisticated functions. It is a multi-effect processor, with 60 types of effects available of which up to 10 can be used simultaneously. It also features a tuner, rhythm machine, sampler and even has a built-in condenser microphone.

- **VAMS lets you enjoy the sound of vintage amps**

The Variable Architecture Modeling System (VAMS) developed by ZOOM provides incredibly accurate vintage amp, cabinet and effect pedal simulations. It also provides mic preamps and a realistic acoustic guitar simulation.

- **30-second sampling feature**

A guitar phrase or the signal from an input source such as a CD player can be sampled for up to 30 seconds and stored in the internal memory. The recorded sample can also be played back at a slower speed without altering the pitch.

- **Integrated rhythm source**

60 built-in rhythm patterns using natural-sounding PCM sources are available. This is great for practice or a quick jam session.

- **Newly developed ARRM feature produces unique effects**

ARRM (Auto-Repeat Real-time Modulation) allows you to adjust modulation effect waveforms (Wah, for example) in real-time and link these waveforms to the tempo of your rhythm tracks.

- **Center canceling capability**

Create a simple karaoke system with the flick of a switch. A stereo signal supplied via the AUX IN jack can be processed so that the signal positioned in the center (like a vocal or lead guitar track) is attenuated.

- **Versatile tuner**

The built-in tuner can be used not only for standard chromatic tuning but also for 7-string guitar and other unconventional tuning applications.

Terms Used in This Manual

This section explains some important terms that are used in this manual.

■ Effect module

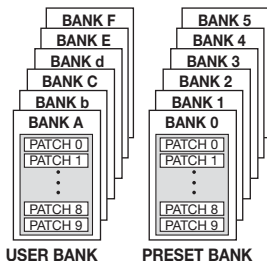
An "effect module" works like a stand-alone compact effect device for tailoring certain aspects of the sound. As shown in the illustration below, the PFX-9003 can be thought of as a series of such effect modules.



■ Effect types and parameters

Different types of sound within a module are called effect types. In most modules, you can select one effect type from several choices. The various settings of the effect module are called parameters.

■ Patches and banks



Effect module combinations and effect parameter settings are stored and recalled in units called "patches".

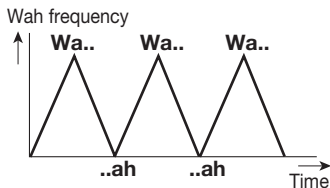
These are divided into user banks (A – F) which can be changed, and preset banks (0 – 5) which are read-only. Because each bank has 10 patches (numbered from 0 – 9), there are 120 patches in all.

■ Modes

Operation of the PFX-9003 is divided into various modes, which are used for different purposes. There is a play mode for selecting and playing patches, an edit mode for changing parameters, a tuner mode for using the built-in tuner, a sampler mode for recording, etc.

■ ARRМ (Auto-Repeat Real-time Modulation)

The newly developed ARRМ feature lets you vary effect parameters in real time, using internally generated control waveforms whose level changes periodically. For example, if you control the wah effect with ARRМ, the wah frequency will go up and down. The ARRМ modulation speed is synchronized to the rhythm pattern tempo.

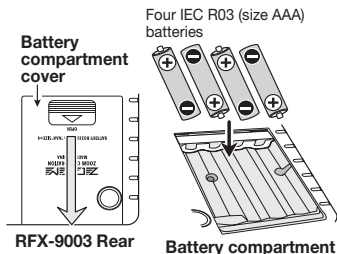


Inserting the Batteries

To use the PFX-9003 on battery power, insert batteries as shown below.

1. Turn the unit over and open the battery compartment cover.
2. Insert four IEC R03 (size AAA) batteries into the battery compartment. The use of alkaline batteries is recommended.

The correct (+) (-) orientation of the batteries is shown inside the battery compartment.



3. Close the battery compartment cover, making sure that the cover audibly snaps into place.

NOTE

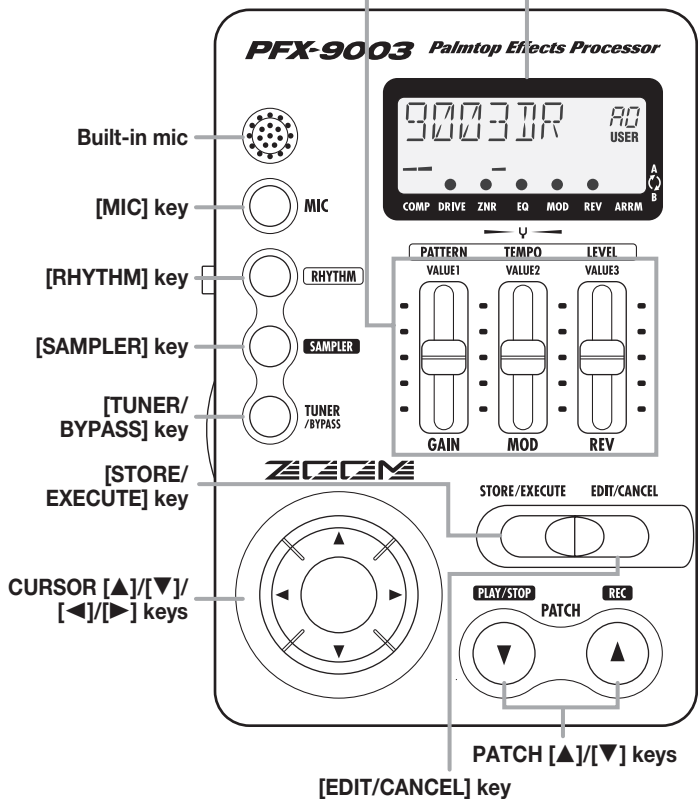
- When not using the unit for an extended period, remove the batteries to prevent the possibility of damage by leaking battery fluid.
- When the indication " " appears on the display, the batteries are almost exhausted. Replace the batteries as soon as possible with fresh ones.

Controls and Functions

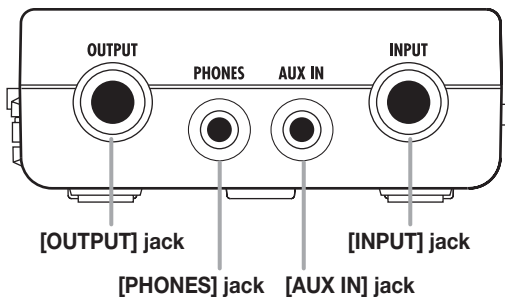
Top panel

Sliders 1 - 3

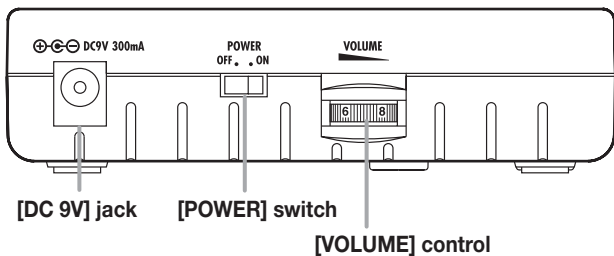
Display



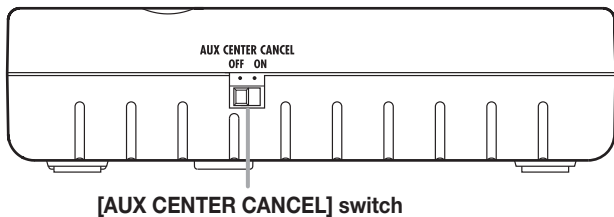
Front panel



Left side panel

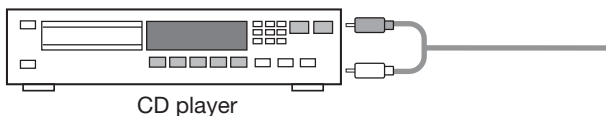


Right side panel



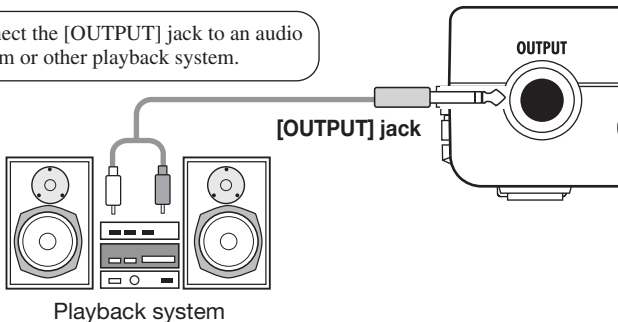
Getting Connected

By connecting the output of a CD/MD player or similar to the [AUX IN] jack, the signal from the player can be mixed to the sound of your instrument. The combined signal is supplied at the [OUTPUT] jack, but the signal from the [AUX IN] jack is not subject to effect processing. This signal can be used as sampling source.



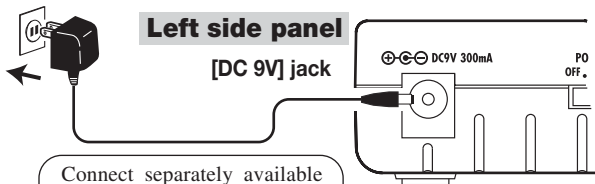
Front panel

Connect the [OUTPUT] jack to an audio system or other playback system.



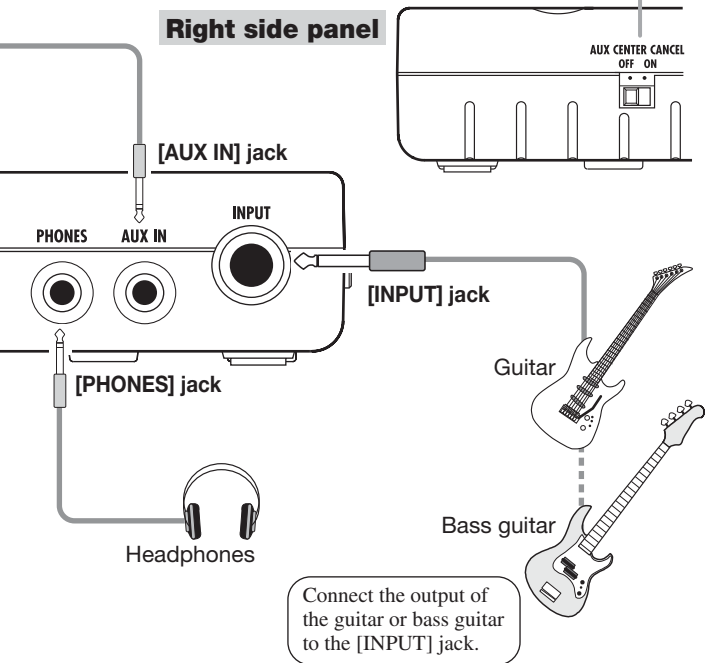
Left side panel

[DC 9V] jack



Connect separately available AC adapter (AD-0006).

By setting the [AUX CENTER CANCEL] switch to ON, the stereo signal from the AUX IN jack is processed so that the sound positioned in the center (such as a vocal, lead guitar, bass, or kick drum track or similar) is attenuated.



Quick Guide (1)

This section explains some of the basic operation steps of the PFX-9003.

1 Turn power on

Set the [POWER] switch on the left side panel to ON, and then turn power to the playback system on.



When you turn on the PFX-9003, it is in play mode. In this mode, you can select patches for playing.

Display in play mode

Patch name

Bank

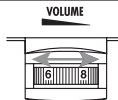
Patch number



** To turn power off, reverse the above sequence.*

2 Adjust the volume

While playing your instrument, adjust the [VOLUME] control to obtain a suitable level.

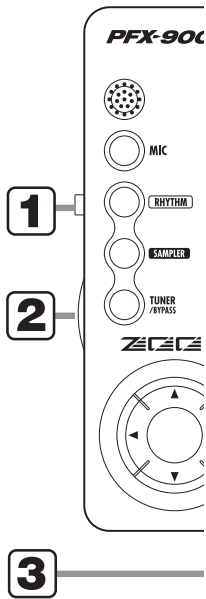


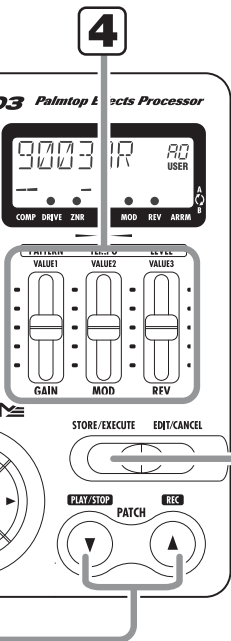
3 Select a patch

Use the PATCH [▲]/[▼] keys to change patches until the sound is as desired.

Banks and patches are switched in the order A0 – A9, b0 – 9 etc.

** You can also use the CURSOR [▲]/[▼] keys to directly switch banks only.*

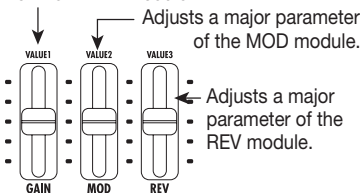




4 Adjust the sound of the patch

In play mode, you can use the sliders 1 - 3 to adjust the sound of the patch.

Adjusts the distortion intensity of the DRIVE module.



* Adjustments you have made are lost when you switch to another patch. Be sure to store the patch if you want to keep the changes.

5 Store the patch

If you have made adjustments to the sound of a patch, you can store it to retain the setting. Press the [STORE/EXECUTE] key.

STOREP RD ← Store target bank/patch number

The unit goes into the store standby mode.

To carry out the store process, select a user patch as necessary, and then press the [STORE/EXECUTE] key once more.

To cancel the operation, press the [EDIT/CANCEL] key.

* Preset banks (0 - 5) are read-only and cannot be selected as store target.

Quick Guide (2) Using the tuner and rhythm functions

This section explains how to use the tuner function and rhythm function of the PFX-9003.

1 Using the tuner

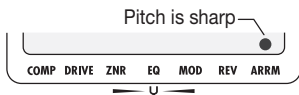
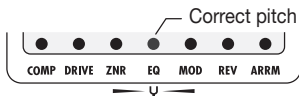
To use the tuner function, press the [TUNER/BYPASS] key in play mode.

When you press the [TUNER/BYPASS] key briefly, the PFX-9003 goes into the bypass condition (patches are temporarily turned off), and the chromatic tuner function can be used.

When you play an open string in this condition, the name of the nearest note will appear on the display.

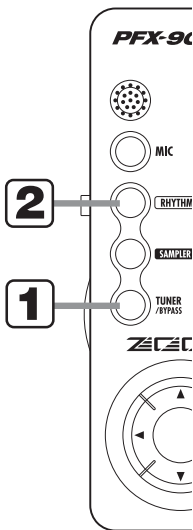


The dots in the lower section of the display let you check the pitch. Tune the string to achieve the desired note.

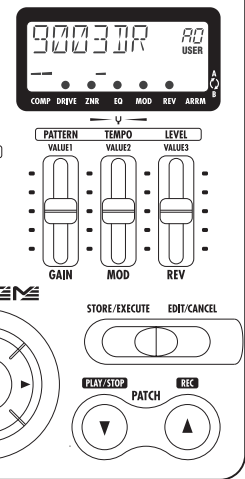


To return to play mode, press the [EDIT/CANCEL] key.

* For information on advanced tuner functions, see page 20.



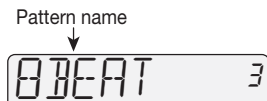
003 Palmtop Effects Processor



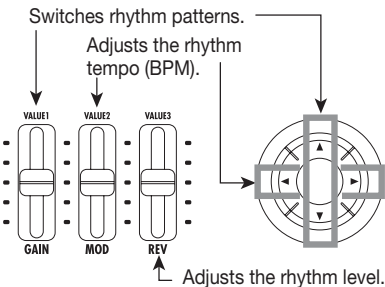
2 Using the rhythm function

To play a rhythm pattern, press the [RHYTHM] key.

Rhythm playback starts. In play mode, the following information appears on the display.



While playing a rhythm pattern in play mode, the following controls can be used to select the rhythm pattern type and to adjust volume and tempo.



To stop rhythm pattern playback, press the [RHYTHM] key once more.

* For a list of rhythm patterns, see page 19.

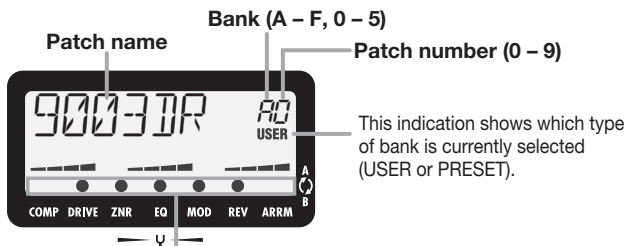
* For details on the rhythm function, see page 17.

Playing Patches (Play Mode)

The condition where you call up patches stored in the memory of the PFX-9003 and use them for playing your instrument is called play mode. When you turn the PFX-9003 on, it is initially always in this mode. The various things you can do in play mode are described in this section.

Display in play mode

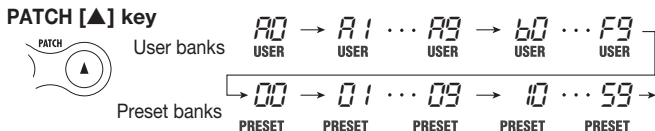
In play mode, the display shows the following information.



Effect modules that are ON in the currently selected patch are indicated by a dot (●) symbol.

Selecting a patch

1. To select a patch in play mode, use the PATCH [▲]/[▼] keys. For example, pressing the PATCH [▲] key repeatedly will switch banks and patch numbers in the following order.



HINT

If you hold down one of the PATCH [▲]/[▼] keys and then also press the opposite key, the patches will be switched faster.

2. To directly switch banks, use the CURSOR [▲]/[▼] keys.

The CURSOR [▲] key switches to the next higher bank and the CURSOR [▼] key to the next lower bank.

NOTE

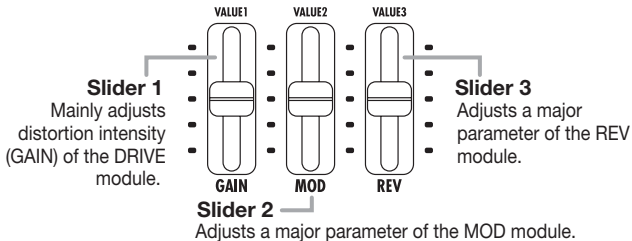
While a rhythm pattern is playing, banks cannot be switched directly.

Changing the sound of a patch

After selecting a patch in play mode, you can use the sliders and the CURSOR [◀]/[▶] keys to adjust the sound and level of the patch.

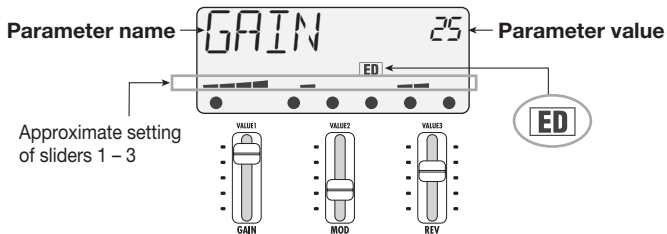
1. To adjust the sound of the patch in play mode, operate sliders 1 – 3 while playing your instrument.

The parameters assigned to the sliders are as follows.

**NOTE**

- Depending on the effect type selected for the DRIVE module, a parameter other than GAIN may be assigned to slider 1.
- Which parameters are adjusted by sliders 2 and 3 depends on the effect type currently selected for the respective module.

When you operate one of the sliders, the name of the parameter and the current setting are shown briefly on the display. The approximate setting for sliders 1 – 3 can also be seen from the bar graphs in the lower part of the display.



The "ED" indication shows that a parameter has been edited. When the parameter is returned to its original value, the indication disappears.

2. To adjust the patch level, use the CURSOR [◀]/[▶] keys.

The patch level is a parameter that controls the individual level of that patch. When you press one of the CURSOR [◀]/[▶] keys, the parameter name and value are shown briefly on the display.



3. If you wish to retain the edited patch settings, perform store as described on page 33.

If you do not store the patch and switch to another patch or turn power to the unit off, the edited settings will be lost. Take care not to accidentally lose settings that you want to keep.

NOTE

While a rhythm pattern is playing, the patch level cannot be adjusted directly.

Using the built-in mic

The PFX-9003 has a built-in high-sensitivity microphone. You can use the mic to pick up the sound of an acoustic guitar or vocal, and use effect processing on that sound in the same way you would use the [INPUT] jack.

When one of the following three conditions is met, the built-in mic can be used and the mic symbol appears on the display.

Mic symbol

- (1) DRIVE module is ON, and the MIC PRE or CABI effect type is selected
- (2) DRIVE module is OFF
- (3) Tuner mode is active

1. To use the built-in mic, verify that the Mic symbol is shown on the display, and press the [MIC] key.

The [MIC] key flashes and the signal from the [INPUT] jack is cut off. If the Mic symbol is not being shown, pressing the [MIC] key has no effect.

2. If the gain of the built-in mic is low, press the [MIC] key once more.

The [MIC] key is now constantly lit. There are two gain settings (Hi/Lo) for the built-in mic. The first push of the [MIC] key activates the Lo setting (key flashing), and the second push changes to the Hi setting (key lit).

3. To turn the built-in mic off, press the [MIC] key once more when the Hi gain setting is active.

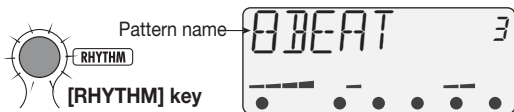
The [MIC] key goes out, and the built-in mic is turned off.

Using the rhythm function

In play mode, you can select from 60 rhythm patterns. This is useful for solo practice or for simple jam sessions.

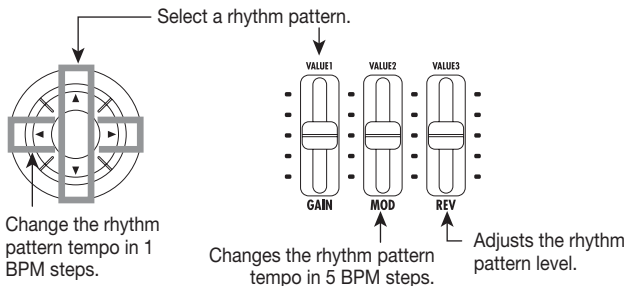
1. Press the [RHYTHM] key while the PFX-9003 is in play mode.

Rhythm pattern playback starts. The display briefly shows the name of the currently selected patch. The [RHYTHM] key LED flashes in sync with the tempo of the pattern.



2. To change rhythm related parameters, use the CURSOR [▲]/[▼]/[◀]/[▶] keys and the sliders 1 – 3.

While a rhythm pattern is playing, the following controls are assigned to rhythm parameters.



HINT

- The approximate setting of the rhythm pattern parameters can be seen from the sliders 1 – 3 bar graphs in the lower part of the display.
- You can select another patch also while a rhythm pattern is playing. However, adjusting parameters and directly selecting the bank is not possible.

3. To stop rhythm pattern playback, press the [RHYTHM] key once more.

Rhythm pattern list

Rhythm pattern	Display	
8 BEAT 1	8BEAT	1
8 BEAT 2		2
8 BEAT 3		3
8 BEAT 4		4
8 BEAT 5		5
8 BEAT SHUFFLE 1	8SHUFL	1
8 BEAT SHUFFLE 2		2
16 BEAT 1	16BEAT	1
16 BEAT 2		2
16 BEAT 3		3
16 BEAT 4		4
16 BEAT SHUFFLE	16SHFL	
3/4	3/4	
6/8 ROCK	6/8	
5/4	5/4	1
5/4 ROCK		2
ROCK'n ROLL 1	R'nR	1
ROCK'n ROLL 2		2
ROCK 1	ROCK	1
ROCK 2		2
1970s ROCK	70ROCK	
HARD ROCK 1	HAR	1
HARD ROCK 2		2
HARD ROCK 3		3
METAL 1	METAL	1
METAL 2		2
THRASH	THRASH	
PUNK	PUNK	
POP 1	POP	1
POP 2		2

Rhythm pattern	Display		
DANCE 1	DANCE	1	
DANCE 2		2	
DANCE 3		3	
FUNK 1	FUNK	1	
FUNK 2		2	
BALLAD 1	BALLAD	1	
BALLAD 2		2	
BLUES 1	BLUES	1	
BLUES 2		2	
COUNTRY	COUNTRY		
BOSSA NOVA	BOSSA		
JAZZ 1	JAZZ	1	
JAZZ 2		2	
REGGAE	REGGAE		
SKA	SKA		
LATIN 1	LATIN	1	
LATIN 2		2	
SAMBA 1	SAMBA	1	
SAMBA 2		2	
AFRO	AFRO		
MOTOWN	MOTOWN		
EUROBEAT	EURO		
FUSION	FUSION		
OLDIES	OLDIES		
METRO (triple time)	METRO	3	
METRO (quadruple time)		4	
METRO (quintuple time)		5	
METRO (sextuple time)		6	
METRO (septuple time)		7	
METRO		METRO	

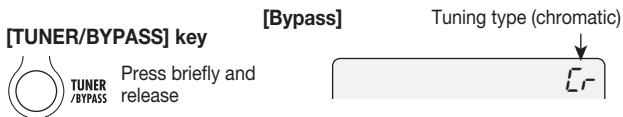
Using the Tuner (Tuner Mode)

The PFX-9003 incorporates a versatile tuner that can also accommodate 7-string guitar and other unconventional tunings. The tuner function becomes available when the unit is set to the bypass condition (effects temporarily turned off) or mute condition (effects and direct sound turned off).

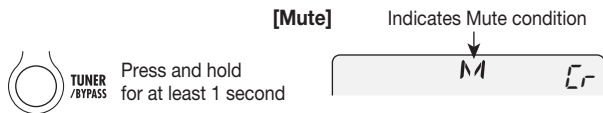
Using the chromatic tuner

- 1. To set the PFX-9003 to the tuner mode, press the [TUNER/BYPASS] key in play mode.**

When you press the [TUNER/BYPASS] key briefly and then release the key, the PFX-9003 goes into the bypass condition (effects are turned off). The indication "CHRMTC" is shown briefly on the display, and the chromatic tuner can be used.



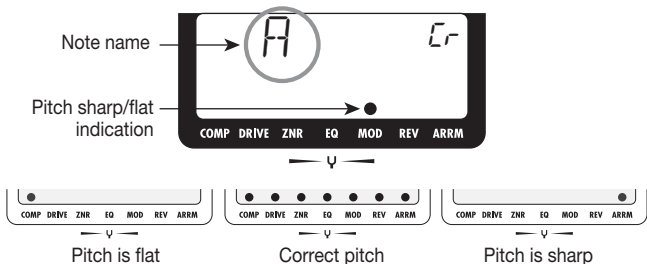
When you hold down the [TUNER/BYPASS] key for one second or more, the PFX-9003 goes into the mute condition (direct sound and effects are turned off). The indication "CHRMTC" is shown briefly on the display, and then an "M" (for Mute) is shown. The chromatic tuner can now be used.



- 2. Play the open string you want to tune.**

The pitch is automatically detected, and the display shows the note which is

closest to the current pitch. The dot (●) symbols in the lower section of the display let you check the pitch.



Tune the string to achieve the desired note.

3. Tune the other strings in the same way.

4. To return to play mode, press the [EDIT/CANCEL] key.

Using other tuning types

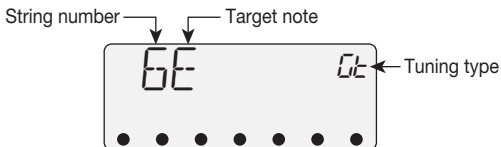
The PFX-9003 allows various other tuning types besides chromatic tuning. For these types it is necessary to first select a string number and then tune the string corresponding to the displayed note.

1. In tuner mode, press the [TUNER/BYPASS] key several times to select the tuning type.

With each push of the key, the tuning type cycles through the settings shown in the chart on the next page. (The name of the new tuning type is briefly shown on the display.)

Tuning type	GUITAR	BASS	OPEN-A	OPEN-D	OPEN-E	OPEN-G	DADGA (D modal)
String/note name	6E	4E	6E	6D	6E	6D	6D
	5A	3A	5A	5A	5D	5G	5A
	4D	2D	4E	4D	4E	4D	4D
	3G	1G	3A	3F#	3G#	3G	3G
	2B	5B	2C#	2A	2B	2B	2A
	1E		1E	1D	1E	1D	1D
	7B						

For example, when GUITAR has been selected as tuning type, the display shows the string number and the target note.



2. Play the indicated string as an open string, and perform tuning.
3. Use the CURSOR [▲]/[▼] keys to select another string number.

For example, when GUITAR has been selected as tuning type, pressing the CURSOR [▼] key cycles through the following string numbers.

6E → 5A → 4D → 3G → 2B → 1E → 7B → 6E ...

4. Tune the other strings in the same way.

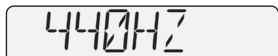
Changing the reference pitch of the tuner

After power to the unit was turned on, the reference pitch of the built-in tuner is always center A = 440 Hz. If desired, you can change this in 1-Hz steps over the following range: center A = 435 – 445 Hz. You can also select "half-step

down" tuning which is a semitone lower, or "full-step down" tuning which is two semitones lower.

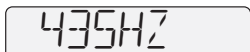
1. In tuner mode, press one of the CURSOR [◀]/[▶] keys.

The current reference pitch is shown briefly on the display. If the unit is in the default condition after power-on, this is center A = 440 Hz.



2. While the reference pitch is shown, you can use the CURSOR [◀]/[▶] keys to change the pitch.

The available range is center A = 435 – 445 Hz, in 1-Hz steps.



3. To select "half-step down" or "full-step down" tuning, press the CURSOR [◀] key once (or twice) while "435 Hz" is being shown.

If you press the CURSOR [◀] key once while "435 Hz" is shown, a single "♭" symbol appears. If you press the key twice, two "♭" symbols appear. This indicates that the overall pitch has been lowered by a semitone ("♭") or two semitones ("♭♭") from the reference pitch (center A = 440 Hz).

Half-step down tuning



Full-step down tuning



HINT

- The reference pitch change applies to all tuning types.
- The reference pitch is reset to 440 Hz when the unit is turned off and then on again.

Using the Sampler Function

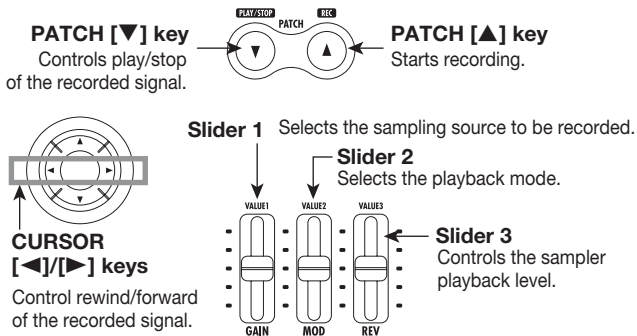
The PFX-9003 has a built-in sampler which allows you to easily record and play up to 30 seconds of the input signal at the [INPUT] jack or [AUX IN] jack. During playback, it is also possible to change the play tempo without altering the pitch. This is convenient for learning a fast guitar phrase.

- 1. Connect the sampling source (instrument or other device) to the [INPUT] jack or the [AUX IN] jack (see page 8 – 9).**
- 2. Turn power to the PFX-9003 on and press the [SAMPLER] key in play mode.**

The PFX-9003 switches to the sampler mode, and the display shows the input source (normally "GT MIC").



In sampler mode, the following functions are assigned to the controls.



NOTE

In sampler mode, the PATCH [▲]/[▼] keys function as Play/Stop and Rec keys. Therefore patches cannot be switched until the unit returns to play mode.

3. Use slider 1 to select one of the following two sources.

- **GT MIC**

The signal from the [INPUT] jack (if the [MIC] key is out) or the built-in mic (if the [MIC] key is lit or flashing) is used as sampler source.

- **AUX**

The signal from the [AUX IN] jack is used as sampler source.

When you move slider 1, the selected input source is briefly shown on the display.



NOTE

Effect processing is not available for the signal from the [AUX IN] jack.

4. To start recording, press the PATCH [▲] key and then play the phrase (or start playback at the source device).

During recording, the indication "REC" appears on the display, and the elapsed recording time (in seconds) is shown at right.



5. To stop sampling, press the PATCH [▼] key once more.

If you do not press a key, sampling will stop automatically when the maximum time of 30 seconds is reached.

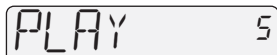
6. Use slider 2 to select one of the following playback modes.



- n1
Normal speed playback
- n2
Half tempo, half pitch playback
- P2
Half tempo, normal pitch playback
- n4
Quarter tempo, quarter pitch playback
- P4
Quarter tempo, normal pitch playback

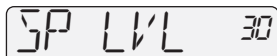
7. Use the PATCH [▼] key and the CURSOR [◀]/[▶] keys to control playback start/stop and rewind/forward.

When the sampler mode has been activated for the first time, pressing the PATCH [▼] key will play the recorded sample once (one-shot playback). During playback, the display shows "PLAY", and the elapsed time (in seconds) is shown at right.



8. To adjust the sample playback volume, use slider 3.

The level setting range is 0 – 30.



NOTE

During sample playback, sliders 1 and 2 are inactive.

- 9.** To perform repeat playback of the sample, specify the repeat start and end points with the [SAMPLER] key while the playback sound is heard.

If you press the [SAMPLER] key once during sample playback, that point is specified as start point. By pressing the key once more, you can specify the end point. Repeat playback is then performed between the start and end points. During repeat playback, the dot (●) symbol of the ARRM module is shown.



To return to one-shot playback, press the [SAMPLER] key once more.

- 10.** To return to play mode, press the [EDIT/CANCEL] key while sample playback is stopped.

NOTE

- When you return to play mode, the recorded contents will be lost.
- The sampler function cannot be used together with the rhythm function.
- In sampler mode, the MOD module, REV module, and ARRM module cannot be used. (These modules are automatically set to OFF.)

Changing the Sound of a Patch (Edit Mode)

The edit mode allows you to freely alter the parameters that make up a patch, so that you can create your own patches. This section describes how to do this.

Patch configuration

As shown below, the PFX-9003 consists of a series of single effects (effect modules). A patch is a stored combination of modules, each with their distinct parameter settings.



Basic edit mode steps

This section describes the basic procedure for editing patches in edit mode. For information on effect types and parameters in the various modules, see the section "Effect Types and Parameters" on page 42.

1. In play mode, select the patch you want to edit.

Patches for editing can be selected from either a user bank (A-F) or a preset bank (0-5). However, patches from a preset bank are read-only. When you have altered such a patch and want to store it, you must select a user bank patch as store target. (Patch number 0 in the user bank "A" is automatically preselected.)

2. To activate the edit mode, press the [EDIT/CANCEL] key.

The indication "EDIT" appears on the display.

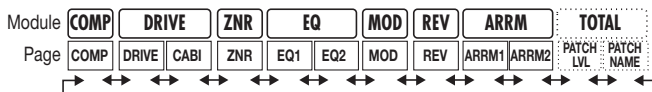


The first time you switch to edit mode after the unit was turned on, the

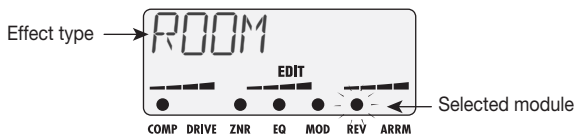
parameter PATLVL (patch level) of the TOTAL module will be selected.

3. Use the CURSOR [◀]/[▶] keys to select the module that you want to edit.

Modules for editing are switched in the order shown below. Modules with many parameters (DRIVE, EQ, ARRM etc.) have multiple pages for making parameter settings. For such modules, the CURSOR [◀]/[▶] keys can be used to switch between pages.



In the lower part of the display, the dot (●) symbol of the selected module is flashing (except for the TOTAL module). For most modules, the currently selected effect type is shown on the upper part of the display.



HINT

- The ARRM module and the TOTAL module are not standalone modules. The ARRM module comprises only ARRM function settings, and the TOTAL module serves for setting the patch level and patch name.
- When the PATCH NAME page of the TOTAL module is selected, the CURSOR [◀]/[▶] keys can be used to select the character of the 6-character name that is to be changed.

4. To switch the selected module on or off, press the [TUNER/BYPASS] key while the effect type for that module is displayed.

The effect type indication changes to "-OFF-". To turn the effect module on again, press the [TUNER/BYPASS] key once more.

- 5.** To change the effect type for the selected effect module, press one of the CURSOR [▲]/[▼] keys while the effect type is displayed.



- 6.** To change the parameter value, operate sliders 1 – 3.

In edit mode, sliders 1 – 3 are assigned to various parameters. When you operate a slider, the name of the assigned parameter and its current setting appear on the display.

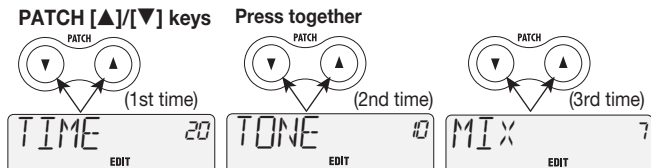


NOTE

Which parameters are assigned to sliders 1 – 3 depends on the effect type selected for that module. For details, see the section "Effect Types and Parameters" on page 42.

- 7.** To check the parameter value without moving a slider, press both PATCH [▲]/[▼] keys together.

Each time you do this, the next parameter assigned to sliders 1 – 3 and its value are shown.



HINT

If you press one of the PATCH [▲]/[▼] keys, the value of the currently displayed parameter is increased or decreased. This method is convenient to make small adjustments.

8. Repeat steps 3 – 7 to edit other modules in the same way.

9. To terminate the edit mode, press the [EDIT/CANCEL] key.

The unit returns to play mode. If any patch has been changed, the indication "ED" is shown.

NOTE

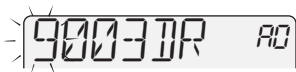
To retain patch changes, be sure to perform the store operation (see page 33). If you switch the patch without storing, the changes will be lost.

Changing a patch name

If you wish, you can assign a new name to an edited patch. Proceed as follows.

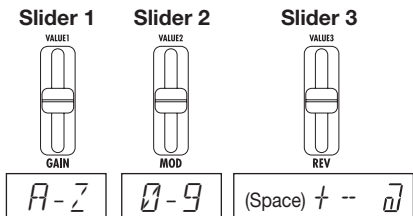
1. In edit mode, use the CURSOR [◀]/[▶] keys to bring up the patch name on the display.

To call up the patch name, press the CURSOR [◀] key while the COMP module is selected, or press the CURSOR [▶] key twice while page 2 of the ARRM module is selected. The character in the patch name that can be changed is flashing.



2. Use the CURSOR [◀]/[▶] keys to select the character of the 6-character patch name that you want to change. Then use sliders 1 – 3 to change the character.

The following characters are assigned to sliders 1 – 3.



HINT

You can also press one of the PATCH [▲]/[▼] keys to change the characters one by one.

3. Repeat step 2 to complete the patch name. When the name is as desired, press the [EDIT/CANCEL] key to return to the play mode.

NOTE

To enable the new patch name, be sure to perform the store operation (see page 33). If you switch the patch without storing, the changes will be lost.

Storing and Swapping Patches (Store Mode)

This section describes how to store an edited patch in the memory of the PFX-9003, and how to swap patches in the user banks.

1. In play mode or edit mode, press the [STORE/EXECUTE] key.

The PFX-9003 goes into the store standby mode. The patch name and the indications "STORE" or "SWAP" are shown alternately on the display. In the top right of the display, the store target user bank and patch number are shown.



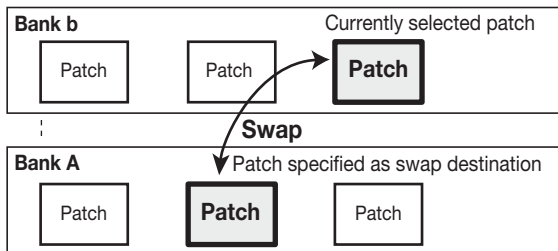
HINT

If you wish to change the patch name before storing, see page 31.

2. Use the CURSOR [◀]/[▶] keys to select either "STORE" or "SWAP".

When STORE is selected, you can save the current patch in any user bank patch slot.

When SWAP is selected, you can exchange the current user bank patch with any other user bank patch. This is convenient for example if you want to change the order of patches for use during a performance.



NOTE

If the original patch is from a preset bank, the "SWAP" option cannot be selected.

- 3. Use the CURSOR [▲]/[▼] keys and the PATCH [▲]/[▼] keys to select the bank and patch number of the store/swap target.**

NOTE

A preset bank cannot be selected as store target. If you press the [STORE] key while a patch from a preset bank is selected, the selection automatically changes to "A0" (patch number 0 in user bank A).

- 4. Press the [STORE] key once more.**

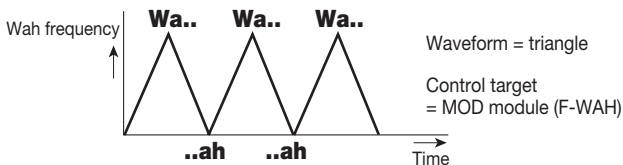
The store or swap operation is performed and the unit returns to the original mode. If the patch in step 1 was being edited, the editing changes are stored and the "ED" indication disappears.

If you press the [EDIT/CANCEL] key instead of the [STORE] key, the store/swap operation is canceled and the unit returns to the original mode.

Using the ARRM Function

The ARRM function utilizes various control waveforms (sawtooth, sine wave, triangle, square) generated internally by the PFX-9003 to cyclically modify effect parameters. The volume, DRIVE module, MOD module, or REV module can be selected as control target.

When the DRIVE module, MOD module, or REV module are selected, the effect parameter that is actually controlled by the ARRM function depends on the currently selected effect type. For example, when triangle wave is selected as control waveform and the control target is the effect type F-WAH in the MOD module, the wah frequency (FREQ parameter) will change, resulting in a cyclic wah sound.



HINT

The control waveform cycle is always linked to the rhythm tempo. If you play a rhythm pattern while the ARRM function is active, the effect will be modulated in sync with the rhythm pattern.

To use the ARRM function for varying an effect parameter in real time, proceed as follows.

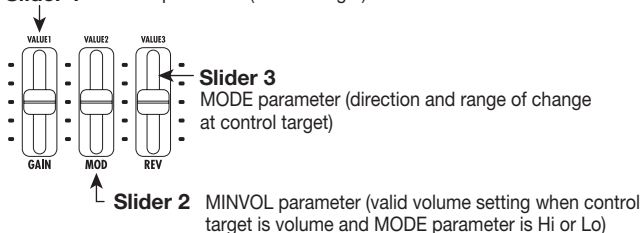
- 1. In play mode, select the patch.**
- 2. Press the [EDIT/CANCEL] key to activate the edit mode, and then use the CURSOR [◀]/[▶] keys to call up page 1 of the ARRM module.**

If the ARRM module is set to off, press the [TUNER/BYPASS] key to turn the module on.



When page 1 of the ARRM module is selected, sliders 1 – 3 control the following parameters.

Slider 1 ASSIGN parameter (control target)



3. Use slider 1 to select the control target from the following options.

- **vL (volume)**
The ARRM function controls the volume of the entire patch.
- **GA (gain)**
The ARRM function controls the GAIN parameter (for some effect types the TOP parameter) of the DRIVE module. This means that the distortion intensity changes.
- **Md (modulation)**
The ARRM function controls the effect type currently selected in the MOD module. The actual parameter that changes depends on the effect type.
- **rv (reverb)**
The ARRM function controls the effect type currently selected in the REV module. The actual parameter that changes depends on the effect type.

4. If "vL" has been selected as control target, adjust the MINVOL parameter value with slider 2, as required.

5. Use slider 3 to set the direction and range of the change at the control target.

- **UP**

The parameter changes from the minimum value to the maximum value according to the level change of the control waveform.

- **dn**

As for UP, the parameter changes from the minimum value to the maximum value, but in opposite relation to the level change of the control waveform. (When the control waveform is maximum, the parameter is minimum, and vice versa.)

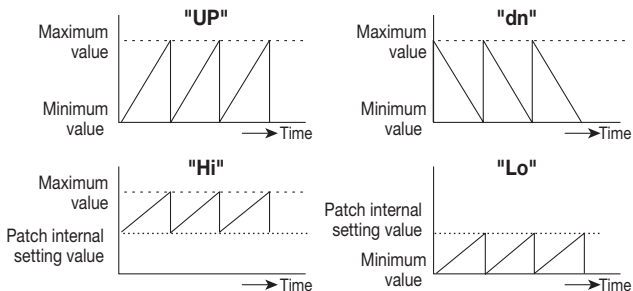
- **Hi**

The parameter changes from the patch setting level (or the MINVOL parameter value) to the maximum value according to the level change of the control waveform.

- **Lo**

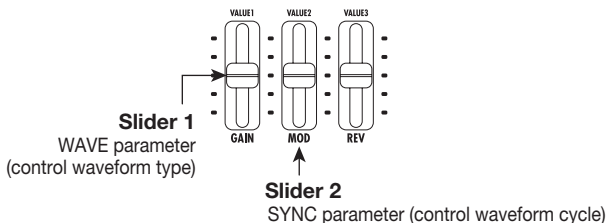
The parameter changes from the minimum value to the patch setting level (or the MINVOL parameter value) according to the level change of the control waveform.

For example, if rising sawtooth is selected as control waveform, the parameter will change as shown below, depending on the MODE parameter setting.



6. Press the CURSOR [▶] key once to call up page 2 of the ARRM module.

On page 2 of the ARRM module, the following parameters are assigned to sliders 1 and 2.



7. Use slider 1 to select the control waveform type. The following choices are available.

1		Rising sawtooth wave
2		Rising fin wave
3		Falling sawtooth wave
4		Falling fin wave

5		Triangle wave
6		Second power triangular wave
7		Sine wave
8		Square wave

8. Use slider 2 to set the control waveform cycle.

Based on the rhythm pattern tempo, the control waveform cycle can be specified in notes and measures. The following choices are available.

- | | |
|----------------------------|-----------------------|
| 05: eighth note | b1: 1 measure |
| 1: quarter note | b2: 2 measures |
| 2: half note | b3: 3 measures |
| 3: dotted half note | b4: 4 measures |

9. Call up the control target module and adjust the effect type and parameter as necessary.

For information about the parameter that can be controlled by ARRM when the DRIVE, MOD, or REV module is selected, see page 42.

10. When the setting is complete, press the [EDIT/CANCEL] key to return to the play mode.

The ARRM function settings are stored separately for each patch. Store the patch if you want to retain the settings.

11. Check the effect while playing your instrument.

The effect parameter value varies cyclically according to the selected control waveform.

Other Functions

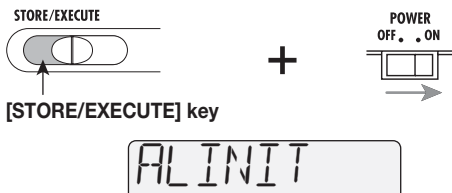
Returning the unit to the factory default settings

The patches in the user banks can be returned to their original condition at any time, even if you have changed them.

There are two ways of restoring factory defaults. "All Initialize" returns all user bank patches to the original condition. "Factory Recall" restores only a specific patch to the original condition.

- 1. Turn power to the PFX-9003 on while holding down the [STORE/EXECUTE] key.**

The indication "ALINIT" appears on the display.



- To perform All Initialize, proceed to step 2.
- To perform Factory Recall, use the CURSOR [▲]/[▼] keys and the PATCH [▲]/[▼] keys to select the user patch that you want to return to the original condition.

- 2. Press the [STORE/EXECUTE] key once more.**

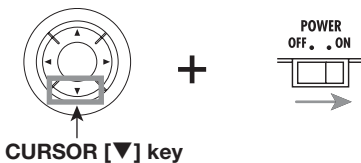
The All Initialize or Factory Recall operation is carried out. After All Initialize, the unit automatically switches to play mode. All patches that were modified and stored by the user are lost.

To cancel All Initialize or Factory Recall, press the [EDIT/CANCEL] key before step 2.

Turning the backlight off

When using the PFX-9003 on batteries, you can extend battery life by turning the display backlight off. Proceed as follows.

- 1.** Turn power to the PFX-9003 on while holding down the **CURSOR [▼]** key.



The PFX-9003 will operate without the display backlight.

- 2.** To activate the backlight again, turn the unit off and then on again.

Effect Types and Parameters

In this section, all effect types and parameters of the modules in the PFX-9003 are explained. The effect types and parameters that can be used in each module are listed below.

The **[A]** symbol indicates that this parameter can be assigned to the ARRANGE function. The parameters shown in black reverse are assigned to sliders in play mode.

◆ COMP module

COMP	Compressor module that serves to keep signal levels within a certain range.		
	Parameter 1: SENS	Parameter 2: ATTACK	Parameter 3: LEVEL
LIMIT	Limiter that attenuates signal peaks.		
	Parameter 1: THRESH	Parameter 2: ATTACK	Parameter 3: LEVEL

Parameter description

Parameter name	Setting range	Explanation
SENS	0 – 10	Adjusts the compression input sensitivity.
ATTACK	0 – 10	Adjusts the speed with which the effect becomes active.
LEVEL	1 – 8	Adjusts the module output level.
THRESH	0 – 10	Adjusts the limiter action threshold.

◆ DRIVE module

* Parameters for type J-CLN to type FDR B are the same.		
J-CLN	Clean sound that simulates a transistor combo amp.	
US-CLN	Clean sound that simulates a built-in type vacuum tube combo amp.	
US-DRV	Drive sound that simulates a built-in type vacuum tube combo amp.	
TWEED	Small built-in vacuum tube combo amp sound with dry distortion.	
CLASSA	Unique crunch sound that simulates a British-style combo amp.	
UK-CRU	Crunch sound that simulates a British-style vacuum tube stack amp.	
UK-DRV	Drive sound that simulates a British-style vacuum tube stack amp.	
CMB335	Simulates a vacuum tube combo amp characterized by long sustain.	
MTLPNL	High-gain drive sound that simulates a vacuum tube stack amp.	
BLKBTM	Simulates a vacuum tube stack amp with fat lows and delicate distortion.	
SLDN	Drive sound that models a high-gain amp suitable for lead.	
FZ-STK	Sixties sound typical of a Fuzz unit played through an amp stack.	
TE B	Simulates a bass amp with a distinctively clean low-mid range.	
FDR B	Simulates a bass amp with vintage-style drive.	
	Parameter 1: GAIN [A]	Parameter 2: TONE Parameter 3: LEVEL

* Parameters for type SANS B to type 9002 are the same.			
SANS B	Treble drive sound for bass.		
CR	Model simulation of vintage crunch.		
TS	Model simulation of vintage overdrive.		
GV	Model simulation of vintage distortion.		
MTZONE	High-gain distortion with rich sustain.		
9002	Simulates the ZOOM 9002 distortion.		
	Parameter 1: GAIN [A]	Parameter 2: TONE	Parameter 3: LEVEL
	Parameter 4: CABI	Parameter 5: SPEAKR	Parameter 6: DEPTH
AC SIM	Transforms the sound of an electric guitar into an acoustic-guitar-like tone.		
	Parameter 1: TOP [A]	Parameter 2: BODY	Parameter 3: LEVEL
	Parameter 4: CABI	Parameter 5: SPEAKR	Parameter 6: DEPTH
CABI	Simulates the cabinet of a guitar/bass amp.		
	Parameter 1: CABI	Parameter 2: SPEAKR	Parameter 3: DEPTH [A]
MICPRE	Preamplifier for mic use.		
	Parameter 1: COLOR	Parameter 2: HPF	Parameter 3: LEVEL [A]
	Parameter 4: CABI	Parameter 5: SPEAKR	Parameter 6: DEPTH
Parameter description			
Parameter name	Setting range	Explanation	
GAIN	1 – 30	Adjusts the distortion gain.	
TONE	0 – 10	Adjusts the tone.	
LEVEL	1 – 8	Adjusts the module output level.	
CABI	See table 1	Selects the cabinet type.	
SPEAKR	See table 2	Selects the speaker type.	
DEPTH	0 – 10	Adjusts the intensity of the cabinet sound.	
TOP	1 – 30	Adjusts the resonance of the strings.	
BODY	0 – 10	Adjusts the resonance of the body.	
COLOR	See table 3	Selects the mic preamp characteristics.	
HPF	0 – 10	Sets the high-pass filter frequency.	

Table 1: CABI

CM	Combo: Simulation of a combo-type cabinet.
br	Bright Combo: Produces a brighter tone than Combo.
Ft	Flat: A cabinet with a flat response.
St	Stack: Produces the character of a stack-type cabinet.
bC	BassCombo: The sound of a combo-type cabinet for bass.
bS	BassStack: The sound of a stack-type cabinet for bass.

Table 2: SPEAKR

CI	Combo 1: The sound of a combo-type guitar amp with one 12 inch speaker.
-----------	-------------------------------------------------------------------------

C2	Combo 2: The sound of a combo-type guitar amp with two 12 inch speakers.
C3	Combo 3: The sound of a combo-type guitar amp with one 10 inch speaker.
GS	Gt Stack: The sound of a stack-type guitar amp with four 10 inch speakers.
GW	Gt Wall: The sound of multiple stack-type amps placed together.
bC	Bs Combo: The sound of a combo-type bass amp with one 15 inch speaker.
bS	Bs Combo: The sound of a stack-type bass amp with four 6.5 inch speakers.

Table 3: COLOR

Ft	Flat response.
vo	Characteristics suitable for vocal.
Gt	Characteristics suitable for acoustic guitar.
d1	Light distortion characteristics.
d2	Characteristics with higher gain than d1.

◆ ZNR module

Original noise reduction developed by ZOOM for cutting noise during performance pauses.

Parameter 1: ZNR

Parameter description

Parameter name	Setting range	Explanation
ZNR	0 – 15	Adjusts the sensitivity of ZNR. For best results, set this as high as possible without allowing the attacks or decays to sound unnatural.

◆ EQ module

Three-band equalizer.

Parameter 1: HIGH	Parameter 2: MID	Parameter 3: LOW	Parameter 4: LEVEL
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Parameter description

Parameter name	Setting range	Explanation
HIGH	-12 – 12	Adjusts boost/cut in the high frequency range.
MID	-12 – 12	Adjusts boost/cut in the mid frequency range.
LOW	-12 – 12	Adjusts boost/cut in the low frequency range.
LEVEL	1 – 8	Adjusts the module output level.

◆ MOD module

CHORUS	Adds vibration and spread to the sound.		
	Parameter 1: DEPTH	Parameter 2: RATE	Parameter 3: MIX [A]
V-CHO	Simulates the warm sound of a vintage effect.		
	Parameter 1: DEPTH	Parameter 2: RATE [A]	Parameter 3: MIX
FLANGE	Produces a unique, undulating sound.		
	Parameter 1: DEPTH	Parameter 2: RATE [A]	Parameter 3: FB
PHASE	Produces a swooshing sound.		
	Parameter 1: POSI	Parameter 2: RATE [A]	Parameter 3: COLOR

TREMOL	Periodically varies the level of the sound.		
	Parameter 1: DEPTH	Parameter 2: RATE [A]	Parameter 3: CLIP
A-PAN	This stereo panning effect periodically moves the sound back and forth between right and left when two amplifiers are used. When one amplifier is used, the effect causes a tremolo sound.		
	Parameter 1: WIDTH	Parameter 2: RATE [A]	Parameter 3: CLIP
A-WAH	This effect gives a varying wah sound that depends on the picking intensity.		
	Parameter 1: POSI	Parameter 2: RESO	Parameter 3: SENS [A]
F-WAH	Lets you control the wah effect with ARRM.		
	Parameter 1: POSI	Parameter 2: FREQ [A]	Parameter 3: DIRMIX
STEP	Changes the sound with step-like characteristics.		
	Parameter 1: DEPTH	Parameter 2: RATE [A]	Parameter 3: RESO
PITCH	This is a pitch shifter with a range of 1 octave down and 2 octaves up.		
	Parameter 1: SHIFT	Parameter 2: TONE	Parameter 3: BAL [A]
RING-M	Produces a metallic sound.		
	Parameter 1: POSI	Parameter 2: RATE [A]	Parameter 3: BAL
SLOW-A	This effect creates a soft attack.		
	Parameter 1: POSI	Parameter 2: TIME [A]	Parameter 3: CURVE
FILTER	This effect tracks the picking action and controls filter opening accordingly.		
	Parameter 1: POSI	Parameter 2: TIME [A]	Parameter 3: RANGE
DELAY	Delay effect with a delay time of up to 1000 milliseconds.		
	Parameter 1: TIME	Parameter 2: FB	Parameter 3: MIX [A]
ECHO	Delay effect with warm sound and a delay time of up to 1000 milliseconds.		
	Parameter 1: TIME [A]	Parameter 2: FB	Parameter 3: MIX
T-TRIP	This delay effect varies the delay time according to the picking intensity.		
	Parameter 1: SENS [A]	Parameter 2: FB	Parameter 3: BAL
TRMCHO	This is a combined tremolo and chorus effect.		
	Parameter 1: TRMRAT [A]	Parameter 2: CHORAT	Parameter 3: CHOMIX
RINVIB	This is a combined ring modulator and vibrato effect.		
	Parameter 1: RINRAT [A]	Parameter 2: VIBRAT	Parameter 3: VIBDEP
VIBE	This is an automatic vibrato effect.		
	Parameter 1: DEPTH	Parameter 2: RATE [A]	Parameter 3: BAL
EXCIT	Gives the sound a clear outline and makes it more prominent.		
	Parameter 1: FREQ	Parameter 2: DEPTH [A]	Parameter 3: LOWBST
AIR	Simulates the air ambience of a room and gives depth to the sound.		
	Parameter 1: SIZE	Parameter 2: TONE	Parameter 3: MIX [A]
WIDE	Simulates a stereo recording with two mics.		
	Parameter 1: TIME	Parameter 2: WETLVL [A]	Parameter 3: DRYLVL

ARRM-P	Uses the ARRM function to shift the pitch.	
	Parameter 1: TYPE	Parameter 3: TONE

Parameter description

Parameter name	Setting range	Explanation
DEPTH	0 – 10 (other than EXCIT)	Adjusts the effect depth.
	0 – 30 (EXCIT)	
RATE	1 – 30	Adjusts the effect speed.
MIX	0 – 30	Adjusts the balance between direct sound and effect sound.
FB	-10 – 10 (FLANGE, T-TRIP)	Adjusts the feedback amount.
	0 – 10 (DELAY, ECHO)	
POSI	AF/bF	Selects the connection point of the MOD module. AF: After the EQ module bF: Before the DRIVE module
COLOR	1 – 4	Selects the sound color.
CLIP	0 – 10	Emphasizes the modulation.
WIDTH	0 – 10	Adjusts the modulation width.
RESO	1 – 10 (A-WAH)	Adjusts the effect character intensity.
	0 – 10 (STEP)	
SENS	-10 – -1, 1 – 10 (A-WAH)	Adjusts the effect sensitivity.
	1 – 50 (T-TRIP)	
FREQ	1 – 10 (F-WAH)	Adjusts the frequency.
	1 – 5 (EXCIT)	
DIRMIX	0 – 10	Adjusts the direct sound mixing amount.
SHIFT	-12 – -1, dt, 1 – 12, 24	Adjusts the pitch shift amount. The "dt" setting results in a detune effect.
TONE	0 – 10	Adjusts the tone.
BAL	0 – 30	Adjusts the balance between direct sound and effect sound.
TIME	1 – 30 (SLOW-A, FILTER)	Adjusts the attack speed.
	1 – 100 (DELAY, ECHO)	Adjusts the delay time in 10-ms steps.
	0 – 63 (WIDE)	Adjusts the mic distance.
CURVE	1 – 10	Adjusts the attack curve direction.
RANGE	1 – 10	Adjusts the filter range.
TRMRAT	1 – 30	Adjusts the tremolo rate.
CHORAT	1 – 30	Adjusts the chorus rate.
CHOMIX	0 – 30	Adjusts the chorus mixing level.
RINRAT	1 – 30	Adjusts the ring modulator frequency.
VIBRAT	1 – 30	Adjusts the vibrato effect speed.
VIBDEP	0 – 10	Adjusts the vibrato effect depth.

LOWBST	0 – 10	Emphasizes the low frequency range.
SIZE	1 – 10	Adjusts the size of the simulated space.
WETLVL	0 – 30	Adjusts the effect sound mixing amount.
DRYLVL	0 – 30	Adjusts the direct sound mixing amount.
TYPE	1 – 16	Selects the pitch change type caused by ARRМ (see table 4).

Table 4: TYPE

Setting	Output pitch
1	Semitone lower → original pitch
2	Original pitch → semitone lower
3	Doubling → detune + original pitch
4	Detune + original pitch → doubling
5	Original pitch → 1 octave higher
6	1 octave higher → original pitch
7	Original pitch → 2 octaves lower
8	2 octaves lower → original pitch
9	1 octave lower + original pitch → 1 octave higher + original pitch
10	1 octave higher + original pitch → 1 octave lower + original pitch
11	Perfect fifth lower + original pitch → perfect fourth higher + original pitch
12	Perfect fourth higher + original pitch → perfect fifth lower + original pitch
13	0 Hz + original pitch → 1 octave higher
14	1 octave higher → 0 Hz + original pitch
15	0 Hz + original sound → 1 octave higher + original pitch
16	1 octave higher + original sound → 0 Hz + original pitch

◆ REV module

HALL	Reverb effect which simulates the acoustics of a concert hall.		
	Parameter 1: TIME	Parameter 2: TONE	Parameter 3: MIX [A]
ROOM	Reverb effect which simulates the acoustics of a room.		
	Parameter 1: TIME	Parameter 2: TONE	Parameter 3: MIX [A]
SPRING	Reverb effect which simulates a spring type reverb machine.		
	Parameter 1: TIME	Parameter 2: TONE	Parameter 3: MIX [A]
MN-DLY	Mono delay with a duration of up to 1.9 seconds.		
	Parameter 1: TIME	Parameter 2: FB	Parameter 3: MIX [A]
PP-DLY	When two amplifiers are used, this serves as a ping-pong delay effect with a duration of up to 1.9 seconds. When one amplifier is used, the effect is a mono delay.		
	Parameter 1: TIME	Parameter 2: FB	Parameter 3: MIX [A]

LNGDLY	Mono delay with a maximum delay time of up to 7 seconds.		
	Parameter 1: TIME	Parameter 2: FB	Parameter 3: MIX [A]
DLYHAL	Combined delay and hall reverb effect.		
	Parameter 1: DLYTIM	Parameter 2: DLYMIX [A]	Parameter 3: REVMIX
DLYROM	Combined delay and room reverb effect.		
	Parameter 1: DLYTIM	Parameter 2: DLYMIX [A]	Parameter 3: REVMIX
AIR	Simulates the air ambience of a room and gives depth to the sound.		
	Parameter 1: SIZE	Parameter 2: TONE	Parameter 3: MIX [A]
WIDE	Simulates a stereo recording with two mics.		
	Parameter 3: TIME	Parameter 1: WETLVL [A]	Parameter 3: DRYLVL

Parameter description

Parameter name	Setting range	Explanation
TIME	1 – 30 (HALL, ROOM, SPRING)	Adjusts the delay time.
	1 – 190, M1 – t9 (MN-DLY, PP-DLY)	Adjusts the delay time in 10-ms steps. (For M1 - t9, see table 5.)
	1 – 70 (LNGDLY)	Adjusts the delay time in 100-ms steps.
	0 – 63 (WIDE)	Adjusts the mic distance.
TONE	0 – 10	Adjusts the tone.
MIX	0 – 30	Adjusts the balance between direct sound and effect sound.
FB	0 – 0	Adjusts the feedback amount.
DLYTIM	1 – 190, M1 – t9	Adjusts the delay time in 10-ms steps. (For M1 - t9, see table 5.)
DLYMIX	0 – 15	Adjusts the delay sound mixing amount.
REVMIX	0 – 15	Adjusts the reverb sound mixing amount.
SIZE	1 – 10	Adjusts the size of the simulated space.
WETLVL	0 – 30	Adjusts the effect sound mixing amount.
DRYLVL	0 – 30	Adjusts the direct sound mixing amount.

Table 5: TIME

Setting	Duration	Setting	Duration
M1	Whole note x 4	t4	Dotted eighth note
M2	Whole note x 3	t5	Half triplet note
M3	Whole note x 2	t6	Eighth note
M4	Whole note	t7	Dotted sixteenth note
t1	Half note	t8	Quarter triplet note
t2	Dotted quarter note	t9	Sixteenth note
t3	Quarter note		

◆ ARRM module

Varies parameters cyclically according to the control waveform from an internal generator.

Parameter 1: ASSIGN	Parameter 2: MINVOL	Parameter 3: MODE
Parameter 4: WAVE	Parameter 5: SYNC	

Parameter description

Parameter name	Setting range	Explanation
ASSIGN	vL, GA, Md, rv	Selects the control target module. (See table 6.)
MINVOL	0 – 10	Sets the minimum volume when the ASSIGN parameter is set to VOL.
MODE	UP, dn, Hi, Lo	Selects the change type and width.
WAVE	1 – 8	Selects the control waveform type.
SYNC	0.5 – 3, b1 – b4	Adjusts the control waveform cycle (See table 7.)

Table 6: ASSIGN

Setting	Control target	Setting	Control target
vL	Patch volume	Md	MOD module parameter
GA	GAIN parameter of DRIVE module	rv	REV module parameter

Table 7: SYNC

Setting	Cycle	Setting	Cycle
5	Eighth note	b1	1 measure
1	Quarter note	b2	2 measures
2	Half note	b3	3 measures
3	Dotted half note	b4	4 measures

◆ TOTAL module

Comprises overall patch settings.

Parameter 1: PATLVL	Parameter 4: Patch name (A-Z)	Parameter 5: Patch name (0-9)
Parameter 6: Patch name (symbols)		

Parameter description

Parameter name	Setting range	Explanation
PATLVL	1 – 30	Adjusts the patch volume level. A setting of 25 results in equal input signal and output signal level.
Patch name (A-Z)	A – Z	Enters alphabet characters.
Patch name (0-9)	0 – 9	Enters numerals.
Patch name (symbols)	+ - @ (space)	Enters symbols.

Patch list

Bank A " Modeling 1 "			
No	Name		
0	9003DR	Distortion	Powerful distinct sound
1	RCT-BG	For picking	High-gain amp sound of the American-made "Rectifier" series
2	9002LD	For lead	The original 9002 sound
3	STNDRD	Clean	Basic clean sound shaped for recording
4	F-TWED	Crunch	The sound of a small, American-made vintage tube amp
5	J-CHO	Clean	JC clean sound
6	ARMWAH	Effect	Create cutting sound (using ARRM) without having to use a pedal
7	BEATON	Crunch	Class-A type Mersey Beat sound
8	ARPEG	Clean	Clean sound suitable for arpeggios
9	JIMVIB	Crunch	Recreate the famous vibe tone
Bank B " Modeling 2 "			
No	Name		
0	BLACK	For backing	Heavy metal sound of the "5100 series" American-made stack amps
1	BALLAD	Distortion	Warm lead sound
2	P-ARRM	Effect	Unique sound with a wave every 2 measures (ARRM)
3	TWIN	For backing	Drive channel sound of an American-made vintage tube amp
4	ARMPIT	Effect	Great combination of ARRM and pitch shifter (ARRM)
5	CLN-CH	Clean	Clean channel sound of an American-made vintage tube amp
6	MATCRU	Crunch	Crunch sound of a modern class-A amp
7	SNAKE	Distortion	Heavy metal sound with a solid low end
8	NYFSN	Clean	Clean sound suitable for line recording
9	WDFUZZ	Effect	Vintage fuzz box sound

Bank C " Acoustic "			
No	Name		
0	AG-CHO		Chorus sound for electroacoustic guitar. Use with strumming, arpeggios, or solos.
1	AG-REV		Sound suitable for finger-style playing
2	AG-LIV	Built-in mic	Live sound for mic recording. Can be used for many other applications besides guitar.
3	AG-BRT	Built-in mic	Bright and distinct sound for mic recording
4	AG-SOL	Built-in mic	Gorgeous solo sound
5	VO-ECH	Built-in mic	Wide vocal effect with long delay + reverb
6	VO-ROK	Built-in mic	Rock vocal effect with pronounced room reverb
7	VO-BLD	Built-in mic	Solid ballad vocal effect with detune chorus
8	VO-JAM	Built-in mic	Effective spacy sound
9	VO-LOF	Built-in mic	Lo-fi sound simulation
Bank D " Bass "			
No	Name		
0	B-PICK	Bass	Sound suitable for tight picking
1	B-OD	Bass	Rock sound with retro distortion
2	B-DRV	Bass	Hard distortion bass sound
3	B-FNGR	Bass	All-around sound for finger picking
4	B-SLAP	Bass	Crisp slap sound
5	B-FLNG	Bass	Effective sound with flanger
6	B-ROCK	Bass	Seventies mainstream type warm tone
7	B-BIG	Bass	Simulation of large amp character
8	B-WAH	Bass	Auto wah sound characterized by strong doubling
9	B-COMP	Bass	Pleasant compression sound

Bank E "Guitar Variation 1"			
No	Name		
0	CMPCLN	Clean	Natural compression sound
1	FUNKCT	Clean	Funky cutting sound
2	FD-CLN	Clean	Clean sound of an American-made vintage tube amp
3	RCKBLY	Clean	Rockabilly sound with short delay
4	ELEACO	Clean	Acoustic simulation sound
5	AG-KeyD	Off-color	Electroacoustic patch sound. Use with strumming or sliding (D tuning).
6	AG-KeyG	Off-color	Electroacoustic patch sound. Use with fingering or sliding (G tuning).
7	BOTTLE	Off-color	Slide bar sound mainly for electric guitar
8	MATDRV	Distortion	Modern class A amp drive sound
9	PS-DRV	Distortion	Smooth and gorgeous drive sound for easy playing
Bank F "Guitar Variation 2"			
No	Name		
0	CMB-BG	Distortion	Sound characterized by detailed overdrive and long sustain
1	MIDDRV	Distortion	Sound with distinct peak characteristics
2	LATNRK	Distortion	Latin rock sound with strong midrange
3	BR-DRV	Distortion	The great sound of the British "900 series" of stack amps
4	CRY-LD	Effect	ZOOM's original cry effect sound
5	PITSFT	Effect	Sound with pitch shifter
6	50SRNB	Effect	Tremolo sound suitable for rhythm & blues
7	SE-SFX	Effect	Ring modulator creates an impressive effect
8	SL-ATK	Effect	Slow attack sound automatically simulating volume playing style
9	ZAKWAH	Effect	Lead sound with auto-wah

Troubleshooting

■ No sound, or very low volume

- Is the power switch set to ON?

Verify that correct batteries are inserted or AC adapter is connected, and then turn power on.

- Are [INPUT] jack and [OUTPUT] jack connected correctly to instrument and amplifier?

Refer to "Getting Connected" on page 8 and establish correct connections. Check power status and volume settings at instrument and amplifier.

- Is the shielded cable defective?

Try replacing the cable.

- Is PFX-9003 set to mute condition?

Cancel the mute condition.

- Is [MIC] key set to ON?

When the built-in mic is on, the signal from the [INPUT] jack is muted. Press the [MIC] key to set the built-in mic to OFF.

■ Cannot record from [AUX IN] jack, or sound from [AUX IN] jack is strange

- Is input source set to "GT MIC"?

Set it to "AUX".

- Is [AUX CENTER CANCEL] switch set to ON?

When the [AUX CENTER CANCEL] switch is set to ON, the instrument or other sound positioned in the center of the signal supplied via the [AUX IN] jack is attenuated. Set the [AUX CENTER CANCEL] switch to OFF.

■ Sound is unnaturally distorted

Adjust level and GAIN parameters of effect modules.

■ High noise levels

Adjust ZNR parameter. If problem persists, try reducing GAIN.

■ Cannot play rhythm pattern or volume is very low

- Is rhythm volume set to low value?

Increase LVL parameter to suitable setting.

■ Cannot record from built-in mic

- Is DRIVE module set to ON, or is a type other than MIC PRE or CABI selected?

Set the DRIVE module to OFF, or select MIC PRE or CABI.

Specifications

Effect programs	60 types Max. simultaneous use: 10 types
Effect modules	7 modules Max. simultaneous use: 7 modules
Patch memory	User: 6 banks x 10 patches = 60 patches Preset: 6 banks x 10 patches = 60 patches Total 120 patches
Sampling frequency	31.25 kHz
A/D converter	20-bit 64 times oversampling
D/A converter	20-bit 8 times oversampling
Display	Original LCD
Input	
Guitar/Bass input	Standard mono phone jack Rated input level: -20 dBm Input impedance: 470 kilohms
AUX input	Miniature stereo phone jack Rated input level -20 dBm Input impedance 20 kilohms
Output	
Line output	Standard stereo phone jack Max. output level: 3 dBm Output load impedance: 10 kilohms or more
Headphone output	Miniature stereo phone jack 50 mW into 32 ohms load
Power requirements	Optional AC adapter 9 V DC, 300 mA Zoom AD-0006 Batteries: IEC R03 (size AAA) battery x 4 Battery life: approx. 6 h continuous operation (with alkaline batteries)
Dimensions	73 (W) x 105 (D) x 30 (H) mm
Weight	130 g (without batteries)

* 0 dBm = 0.775 Vrms

* Design and specifications subject to change without notice.

Usage Precautions

• Electrical interference

For safety considerations, the PFX-9003 has been designed to provide maximum protection against the emission of electromagnetic radiation from inside the device, and protection from external interference. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves should not be placed near the PFX-9003, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the PFX-9003 included, electromagnetic interference can cause malfunctioning and can corrupt or destroy data. Care should be taken to minimize the risk of damage.

• Cleaning

Use a soft, dry cloth to clean the PFX-9003. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

Please keep this manual in a convenient place for future reference.



ZOOM CORPORATION

NOAH Bldg., 2-10-2, Miyanishi-cho, Fuchu-shi, Tokyo 183-0022, Japan

PHONE: +81-42-369-7116 FAX: +81-42-369-7115

Web Site: <http://www.zoom.co.jp>