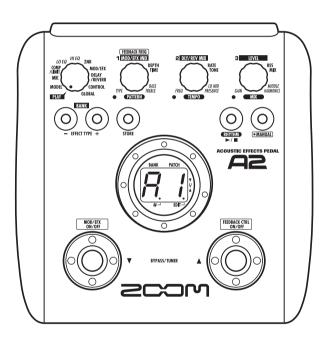


# **Operation Manual**





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# **SAFETY PRECAUTIONS Usage Precautions**

## 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 the wrong way, serious injury or death could result.



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

Please observe the following safety tips and precautions to ensure hazard-free use of the A2.



#### **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 (Zoom AD-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.
- During lightning or when not using the unit for an extended period, disconnect the AC adapter from the AC outlet.

#### [Battery operation]

- Use four conventional IEC R6 (size AA) batteries (alkaline).
- The A2 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

To prevent the risk of fire, electric shock or malfunction, avoid using your A2 in environments where it will be exposed to:

- · Extreme temperatures
- · Heat sources such as radiators or stoves

- · High humidity or moisture
- · Excessive dust or sand
- · Excessive vibration or shock

#### Handling

- Never place objects filled with liquids, such as vases, on the A2 since this can cause electric shock.
- Do not place naked flame sources, such as lighted candles, on the A2 since this can cause fire.
- The A2 is a precision instrument. Do not exert undue pressure on the keys and other controls. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.
- Take care that no foreign objects (coins or pins etc.) or liquids can enter the unit.

#### <u>∱</u> C ution ja

## Connecting cables and input and output jacks

You should always turn off the power to the A2 and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all connection cables and the power cord before moving the A2.



#### Alterations

Never open the case of the A2 or attempt to modify the product in any way since this can result in damage to the unit.



#### Volume

Do not use the A2 at a loud volume for a long time since this can cause hearing impairment.

## **Usage Precautions**

#### **Electrical interference**

For safety considerations, the A2 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 A2, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the A2 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 A2. 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.

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AZ FIESEL Pallerii B	ack cover

### The FCC regulation warning (for U.S.A.)

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.

## Features

Thank you for selecting the **ZOOM A2** (simply called the "**A2**" in this manual). The A2 is a sophisticated effect processor for acoustic guitar with the following features.

#### • Latest technology for top performance

Excellent sound quality is assured by signal processing circuitry featuring 96 kHz/24 bit sampling and internal 32-bit processing. Frequency response remains flat to 40 kHz, and signal-to-noise ratio is an amazing 100 dB.

#### • Full array of effects optimized for acoustic guitar

Out of a versatile palette of 47 effects, up to eight (including ZNR) can be used simultaneously. In addition to standard effects such as compressor and delay/reverb, the A2 offers effects which simulate the sound of famous acoustic guitars, a mic simulator, and other specialized acoustic guitar effects.

#### • Select optimum characteristics for pickups and amps

The A2 allows you to select the best frequency response for your pickup and amp. This is great for eliminating sonic problems that can occur when playing an acoustic guitar through a guitar amplifier.

#### • Automatic suppression of acoustic feedback

The feedback control feature pinpoints the frequency where acoustic feedback (howling) occurs and provides an efficient cure. The function can be activated by foot switch during a performance.

#### Advanced interface

Rotary selectors and three parameter knobs make operation extremely quick and intuitive. The muting interval when switching patches has been reduced to less than 8 milliseconds, allowing virtually seamless patch changes.

#### Rhythm function and auto-chromatic tuner

Rhythm patterns created from highly realistic PCM sources are convenient for use instead of a metronome during practice or for quick session work. The auto-chromatic tuner designed for guitar makes tuning a snap.

#### Support for foot switch and expression pedal

By connecting an optional foot switch (FS01) to the CONTROL IN jack, you can switch banks, specify the rhythm tempo, and switch feedback control on and off with your foot. Or use an expression pedal (FP01/FP02) to vary the volume or tone in real time.

#### • Dual power supply principle allows use anywhere

The A2 can be powered from four IEC R6 (size AA) batteries or an AC adapter. Continuous operating time on batteries is approximately 7.5 hours with alkaline batteries.

Please take the time to read this manual carefully, in order to get the most out of your A2 and to ensure optimum performance and reliability.

# **Terms Used in This Manual**

This section explains some important terms that are used throughout the A2 documentation.

		HI EQ - ZNR - I	MOD/EFX DE	LAY/REVERB -> OUT
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#### Effect module

As shown in the illustration above, the A2 can be thought of as a combination of several single effects. Each of these is referred to as an effect module. Among others, there is a module for ZNR (ZOOM Noise Reduction), as well as a modeling (sound simulation) module (MODEL), compressor/limiter module (COMP/LIMIT), modulation/special effects module (MOD/EFX). Parameters such as effect intensity can be adjusted for each module individually, and modules can be switched on and off.

#### Effect type

Most effect modules comprise several different effects which are referred to as effect types. For example, the MOD/EFX module comprises chorus, flanger, delay, phaser, and other effect types. Only one of these can be selected at any time.

#### Effect parameter

All effect modules have various parameters that can be adjusted. These are called effect parameters.

In the A2, effect parameters are adjusted with the parameter knobs 1 - 3. Similar to the knobs on a compact effect, these change aspects such as tonal character and effect intensity. Which parameter is assigned to each knob depends on the currently selected effect module and effect type.

#### Patch

In the A2, effect module combinations are stored and called up in units referred to as patches. A patch

Operating the A2 on batteries

comprises information about the on/off status of each effect module, about the effect type used in each module, and about effect parameter settings. The internal memory of the A2 holds 80 patches (40 of these can be rewritten by the user).

#### Bank and area

A group of ten patches is called a bank. The memory of the A2 comprises a total of eight banks, labelled A to d and 0 to 3. Banks A - d form the user area which allows read/write patches. Banks 0 to 3 are the preset area of read-only.

The patches within each bank are numbered 0 through 9. To specify a patch, you use the format "A1" (patch number 1 from bank A), "06" (patch number 6 from bank 0), etc.

#### Modes

The A2 has the following operation modes.

Play mode

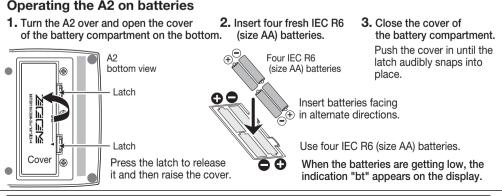
In this mode, patches can be selected and played.

#### Manual mode

In this mode, you play your instrument while using the foot switches to turn the MOD/EFX module or the feedback control function on and off. The mode also is used for automatic detection of acoustic feedback frequency.

#### Edit mode

In this mode, the effect parameters of a patch can be edited (changed).



**ZOOM A2** 

# **Controls and Functions / Connections**

### **Module selector**

Switches between play / manual mode and edit mode. In edit mode, the knob selects the module for operation.

## BANK [-]/[+] keys

In play / manual mode, the keys serve for directly switching to the next lower or higher bank. In edit mode, the keys switch the effect type for the currently selected module.

## [STORE] key

Serves for storing edited patches in memory.

### [INPUT] jack

Serves for connecting of an acoustic guitar with a pickup, an electroacoustic guitar, or an electric guitar.

#### About HI-GAIN mode

When using a magnetic pickup, a single-coil electric guitar, or any other pickup with low output level, the input gain of the A2 can be increased by selecting the HI-GAIN mode.

#### To start the A2 in HI-GAIN mode

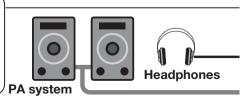
Turn power on while holding down the  $[\mathbf{\nabla}]$  foot switch. The indication "Hi-GAin" scrolls on the display, and input gain will be set to a higher value.

## NOTE

The input gain setting is not stored in memory and will be canceled when the unit is turned off. Perform the above procedure every time at power-on, as needed.

## [OUTPUT/PHONES] jack

This stereo phone jack can be used for connection to a guitar amplifier or hi-fi system. It is also possible to use a Y cable for sending the output to two amplifiers, or to plug a pair of stereo headphones into this jack.



Acoustic guitar

**Top Panel** 

10 50

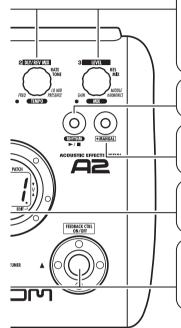
PLAY

MOD/EFX DELAY /REVERB

MOD/EF

FEEDBACK FREQ

0



## Parameter knobs 1 - 3

These knobs allow changing the value of effect parameters or the level of the overall patch. During rhythm playback, the knobs let you select a pattern, set the tempo, and adjust the rhythm volume.

## RHYTHM [►/■] key

Serves to start/stop rhythm playback.

## [MANUAL] key

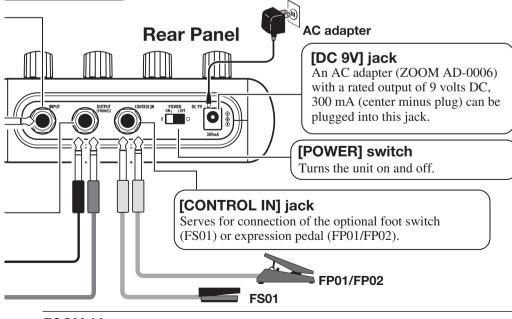
Switches between play mode and manual mode. The key is lit when the A2 is in manual mode.

## Display

Shows patch numbers, setting values, and other information about operating the A2.

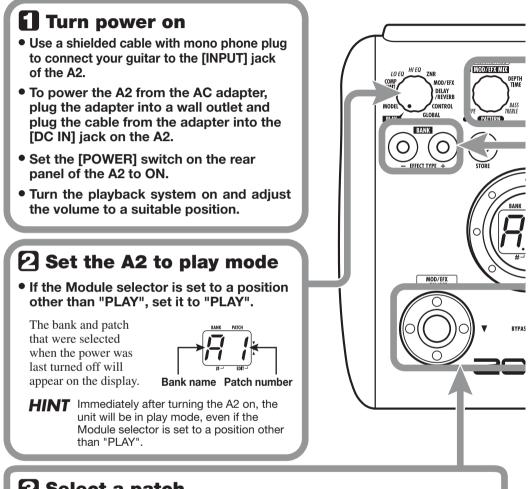
## [▼]/[▲] foot switches

These switches serve for selecting patches, turning effect modules on and off, controlling the tuner, and other functions.



# **Selecting a Patch**

While playing your instrument, try out various patches to see what the A2 can do.

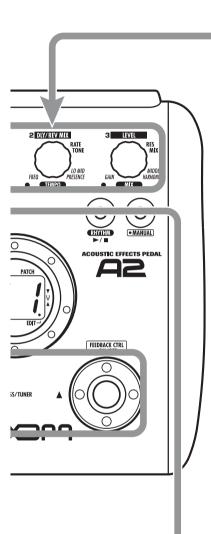


# Select a patch

• To switch the patch, press one of the  $[\mathbf{V}]/[\mathbf{A}]$  foot switches.

Pressing the  $[\mathbf{\nabla}]$  foot switch calls up the next lower patch, and pressing the  $[\mathbf{\Delta}]$  foot switch calls up the next higher patch.

Repeatedly pressing one foot switch cycles through patches in the order  $A0 - A9 \dots d0 - d9$  $\rightarrow 00 - 09$  ...  $30 - 39 \rightarrow A0$ , or the reverse order.

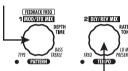


## **O** Adjust tone and volume

• To adjust the effect sound and volume levels in play mode, the Parameter knobs 1 – 3 can be used. Each knob controls a specific parameter.

#### Parameter knob 1

Mainly adjusts the MIX parameter of the MOD/EFX module (the level of the effect sound mixed to the orignal sound). Parameter knob 3 Adjusts the PATCH LEVEL parameter (output level of the entire patch).





Parameter knob 2 Adjusts the MIX parameter of the DELAY/REVERB module (the level of the effect sound mixed to the orignal sound).

When you turn a Parameter knob, the corresponding LED lights up and the display briefly shows the current value of the respective parameter.

## NOTE

- If the MOD/EFX module or DELAY/REVERB module is set to off for the currently selected patch (display shows "oF"), the respective parameter knobs (1 or 2) have no effect.
- Changes made here are temporary and will be lost when you select another patch. To retain the changes, store the patch (→ p. 16).
- Besides the individual patch levels, the A2 also allows adjusting the master level. This setting affects all patches (→ p. 33).

## Directly selecting a bank

### • To select the banks A – d, 0 – 3 directly, use the BANK [-]/[+] keys.

Pressing the BANK [-] key calls up the next lower bank, and pressing the BANK [+] key calls up the next higher bank.

# **Using the Tuner**

The A2 incorporates an auto-chromatic tuner. To use the tuner function, the built-in effects must be bypassed (temporarily turned off) or muted (original sound and effect sound turned off).

## Switch to bypass or mute

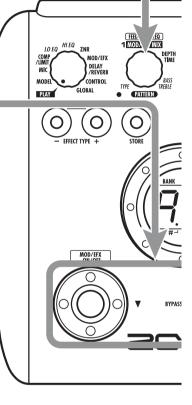
- Setting the A2 to the bypass condition In play mode (or manual mode), press both [♥]/[▲] foot switches together briefly and release.
- Setting the A2 to the mute condition In play mode (or manual mode), press both [♥]/[▲] foot switches together and hold for at least 1 second.



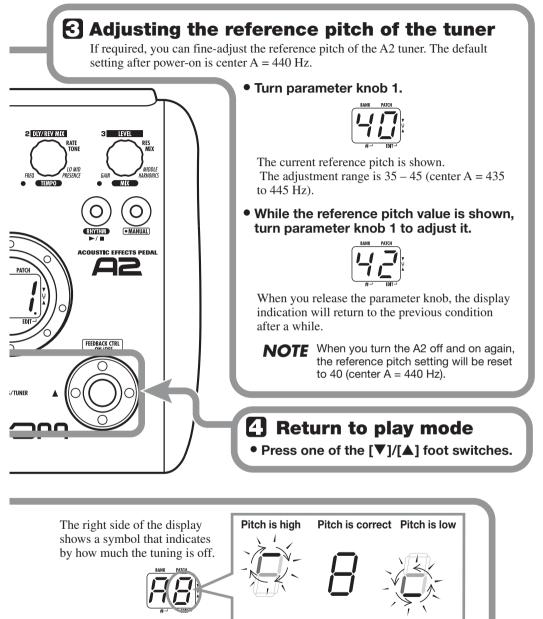
## Patch change at bypass/mute

When you press both  $[\Psi]/[\blacktriangle]$  foot switches together while playing your instrument, the bypass/mute condition is activated. However, the sound may change momentarily just before the condition is activated. This is because the A2 switches to the next higher or lower patch when one of the foot switches is pressed slightly earlier. (When you cancel the bypass/mute condition, the original patch number will be active again.)

This kind of behavior is not a defect. It is due to the very high speed at which the A2 responds to patch switching. To prevent the sound change caused by the above condition, do not produce sound with your instrument until the bypass/mute condition is fully established.



## Play the string to tune, and adjust the pitch. A = $\overrightarrow{P}$ D = $\overrightarrow{D}$ G = $\overrightarrow{D}$ A<sup>#</sup>= $\overrightarrow{P}$ D<sup>#</sup>= $\overrightarrow{D}$ G<sup>#</sup>= $\overrightarrow{D}$ . B = $\overrightarrow{D}$ E = $\overleftarrow{E}$ C = $\overleftarrow{E}$ F = $\overrightarrow{F}$ C<sup>#</sup>= $\overleftarrow{F}$ C<sup>#</sup>= $\overleftarrow{F}$ .



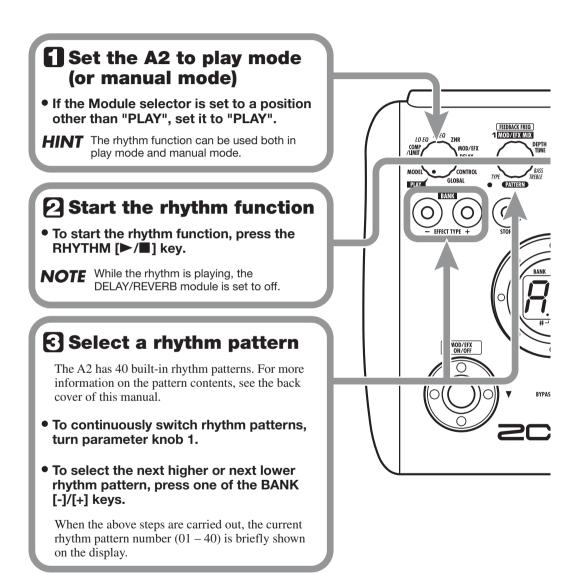
Indication turns faster the more the pitch is off.

Tune other strings in the

same way.

# **Using the Rhythm Function**

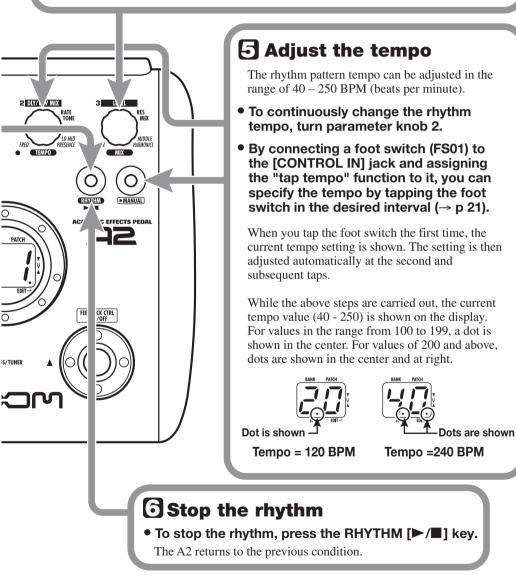
The A2 has a built-in rhythm function that plays realistic drum sounds in various patterns. The rhythm function is available in play mode or in the bypass/mute condition.



## Adjust the rhythm volume

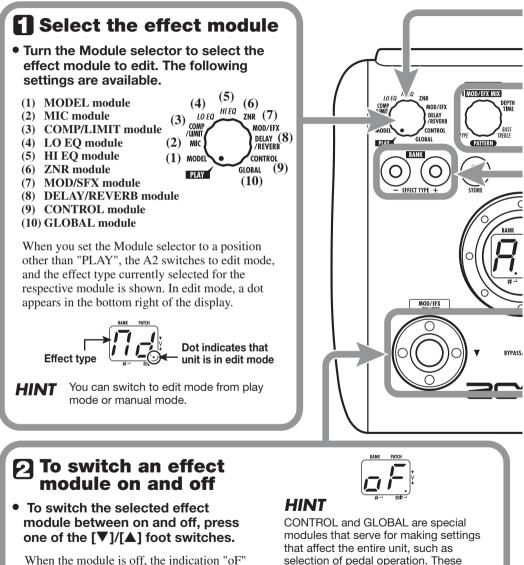
#### • To adjust the rhythm volume, turn parameter knob 3.

When you turn the parameter knob, the current setting (0 - 30) is shown on the display.



# **Editing a Patch**

The patches of the A2 can be freely edited by changing the effect parameter settings. Try editing the currently selected patch to create your own sound.



appears on the display.

selection of pedal operation. These modules cannot be switched on/off.

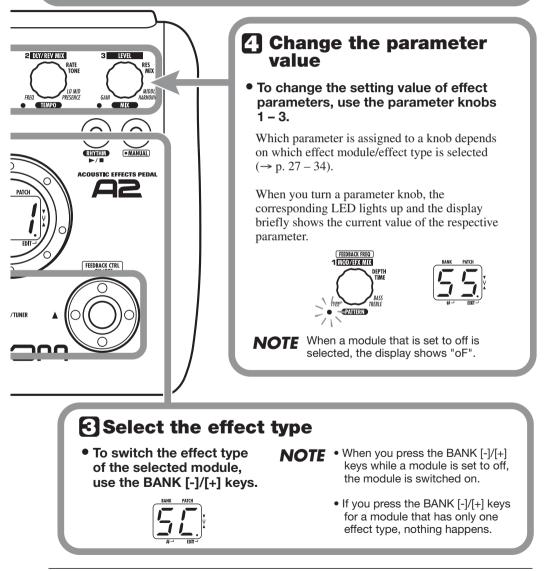
## **Terminate the edit mode**

• To terminate the edit mode and return to the play mode, set the Module selector to the "PLAY" position.

A2 returns to play mode (or manual mode).

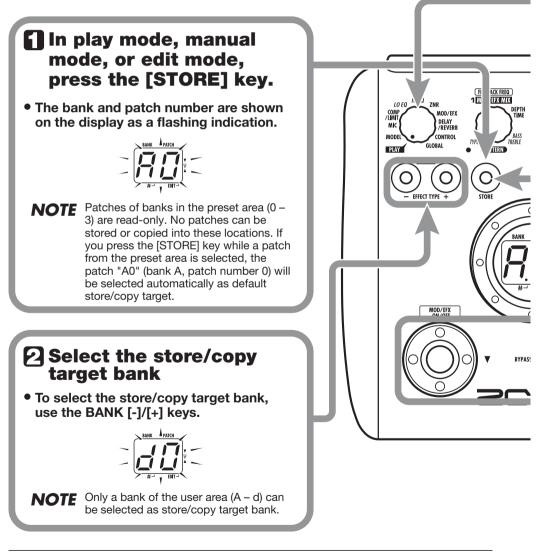
## NOTE

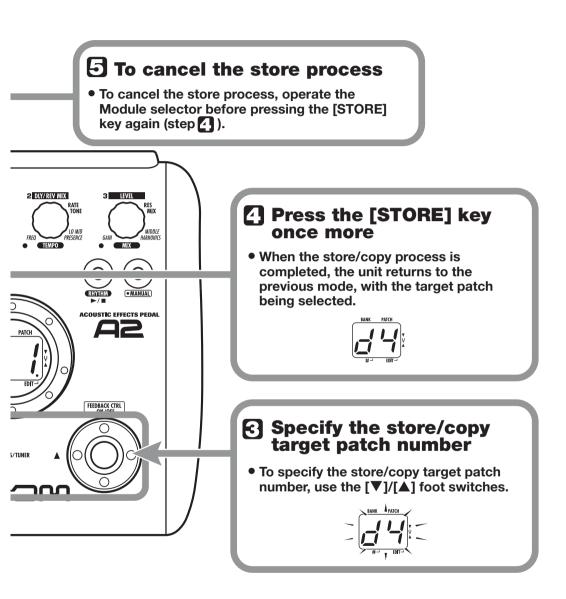
When you select another patch after editing, the changes you have made in edit mode will be lost unless you store the patch first. To retain the changes, store the patch as described on page 16.



# **Storing/Copying Patches**

An edited patch can be stored in a bank of the user area (A - d). It is also possible to store an existing patch in another location to create a copy.





# **Using the Feedback Control**

The feedback control function of the A2 allows automatic or manual detection of the frequency range where acoustic feedback occurs. This frequency range is then attenuated to eliminate feedback.

## Manual operation of feedback control

This section describes how to detect the feedback frequency manually.

**1.** Set the Module selector to "GLOBAL".



When the GLOBAL module is selected, parameter knob 2 can be used to adjust the feedback control parameter (FEEDBACK FREQ). The following settings are available.

#### • oF

This turns the feedback control function off. When this setting is selected, the foot switch can be used in play mode or manual mode to turn the function on and perform automatic detection of feedback frequency.

#### • At

Feedback frequency is detected automatically, and the respective range is attenuated.

#### • 1 - 30

This allows you to manually set the feedback frequency. Higher setting values correspond to higher frequency.

#### Turn parameter knob 2 to set the feedback frequency, using the setting range from 1 – 30.

The frequency range corresponding to the selected value will be cut. Select the value that

yields best reduction of acoustic feedback (howling).



**3.** When the setting is complete, return the Module selector to the "PLAY" position.



#### HINT

- If you select "At" in step 2, the automatic feedback frequency detection starts. During the process, the indication "SC" (Scan) is shown on the display.
- The feedback control setting applies to all patches, and the most recent value is always active. There is no need to store the setting.

## Automatic detection of feedback frequency

The A2 can automatically detect the frequency range where acoustic feedback is occurring. If acoustic feedback should suddenly occur during a performance, you can simply hit the foot switch to turn the function on and suppress the feedback sound. This is possible both in play mode and manual mode.

 Refer to the section "Manual operation of feedback control" and set the FEEDBACK FREQ value to "oF" or "At".



When you select the "oF" setting for the FEEDBACK FREQ value, the feedback control function is off, but it can be turned on by pressing the  $[\blacktriangle]$  foot switch (in manual mode only) or an external foot switch. The setting will change to "At" and feedback frequency detection starts automatically.

When you select the "At" setting for the FEEDBACK FREQ value, the feedback control function is on. In this condition, pressing the foot switch twice initiates automatic detection of feedback frequency.

#### HINT

In manual mode, you can change the FEEDBACK FREQ value by turning parameter knob 1.

2. To automatically detect the feedback frequency while playing your guitar, proceed as follows.

#### In play mode

Use an external foot switch (FS01) connected to the [CONTROL IN] jack. Press the foot switch to turn feedback control on.

#### NOTE

If no external foot switch is connected, feedback control cannot be switched on and off in play mode.

#### In manual mode

Press the  $[\blacktriangle]$  foot switch to turn feedback control on.

In either case, automatic feedback frequency detection starts when the function is turned on. The indication "SC" appears on the display.



To repeat the automatic detection process, press the  $[\blacktriangle]$  foot switch (in manual mode) or the external foot switch twice to turn the feedback control function first off and then on again. Automatic detection will then be performed once more.

#### HINT

You can use the optional expression pedal (FP01/ FP02) to adjust the feedback control frequency with your foot (setting range 1 - 30). For information about making foot switch or pedal settings, see pages 21 - 23.

# **Using Manual Mode**

The condition where the foot switches are used to switch the MOD/EFX module or the feedback control function on and off during play is called "manual mode".

#### **1.** In play mode, select a patch.

When you enter manual mode, the  $[\mathbf{\nabla}]/[\mathbf{\Delta}]$  foot switches are assigned different functions and cannot be used to select patches. Therefore you should select the patch to use before entering manual mode.

#### **2.** Press the [MANUAL] key.

The [MANUAL] key lights up, and the A2 switches to manual mode.



In manual mode, the switches and knobs on the panel function as follows.



[▼] foot switch Switches the MOD/EFX module on and off.



[**]** foot switch Switches the feedback control function on and off.



#### Parameter knob 1

Switches the feedback control function on/off and allows manual setting of feedback frequency.

#### HINT

- The other controls of the unit operate in the same way as in play mode.
- In manual mode, you can also activate edit mode by turning the Module selector.

#### To switch feedback control between on and off, press the [▲] foot switch.

The operation of the unit when the  $[\blacktriangle]$  foot switch is pressed depends on feedback control setting value.

• oF

When you press the foot switch, the unit automatically detects the feedback frequency and attenuates it. Pressing the foot switch once more turns feedback control off.

#### • At

When you press the foot switch, the feedback control function is turned off. When you press the foot switch once more, the function is turned on again, the unit automatically detects the feedback frequency and attenuates it.

#### • 1 - 30

Each time you press the foot switch, the feedback control is switched back and forth between on and off. When it is on, the feedback frequency as specified by this numeric setting will be attenuated.

#### 4. To switch the MOD/EFX module between on and off, press the [▼] foot switch.

# **5.** To return to play mode, press the [MANUAL] key.

The [MANUAL] key goes out and the A2 returns to play mode.



# Using an Optional Foot Switch or Pedal

The A2 is equipped with a [CONTROL IN] jack designed for connection of an optional foot switch or expression pedal. This section explains how to use these accessories.

# Using the foot switch (FS01)

Connecting the optional foot switch FS01 to the [CONTROL IN] jack allows functions such as switching banks, performing tap tempo input, and switching the feedback control function on and off.

- **1.** Plug the cable from the FS01 into the [CONTROL IN] jack, and then turn the A2 on.
- **2.** Set the Module selector to the "CONTROL" position.



The A2 goes into edit mode. You can now make settings for the expression pedal and foot switch.

# **3.** Turn parameter knob 2 to select one of the following functions for the foot switch.



#### • bP (bypass/mute)

The foot switch controls bypass or mute on/off. This has the same effect as pressing both  $[\nabla]/[\Delta]$  foot switches at the same time in play mode or manual mode.

#### tP (tap tempo)

Pressing the foot switch repeatedly can be used to set the interval for the rhythm function or to make settings for effect parameters supporting the tap function.

#### bU (bank up)

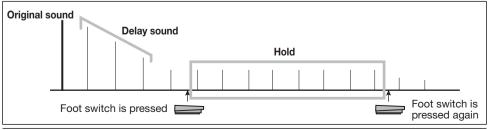
Each push of the foot switch switches to the next higher bank. This has the same effect as pressing the BANK [+] key.

#### rH (rhythm on/off)

The foot switch controls start/stop of the rhythm function. This has the same effect as pressing the RHYTHM  $[\blacktriangleright/\blacksquare]$  key.

#### dH (delay hold)

The foot switch controls on/off of the delay hold function. When a patch using the hold function is selected, pressing the foot switch



will activate hold, causing the current delay sound to be repeated (see illustration below). Pressing the foot switch once more cancels the hold condition, and the delay sound will decay normally.

#### • dM (delay input mute)

The foot switch controls input mute on/off for the DELAY module.

#### • Mn (manual mode)

The foot switch toggles between play mode and manual mode. This has the same effect as pressing the [MANUAL] key.

#### • Fb (feedback control)

The foot switch toggles the feedback control function between on and off. This has the same effect as pressing the  $[\blacktriangle]$  foot switch in manual mode. For details on the feedback control function, see page 18.

#### HINT

- For information on effect parameters supporting the tap function, see pages 27 34.
- To use the hold function, an effect type that supports the hold function must be selected in the patch. For details, see pages 27 34.
- While the DELAY/REVERB module is set to hold or mute, the dot in the center of the display flashes.

# **4.** Use the foot switch in play mode or manual mode.

The switch operates according to the selected setting. This setting applies to all patches, and the most recent value is always active. There is no need to store the setting.

# Using the expression pedal (FP01/FP02)

Connecting an expression pedal (FP01/FP02) to the [CONTROL IN] jack allows using it as a volume pedal or as a real-time controller for effect parameters. The function assignment for the expression pedal can be saved for each patch individually.

For information on parameters that can be adjusted with the expression pedal, refer to pages 27 - 34.

- 1. Plug the cable from the expression pedal into the [CONTROL IN] jack, and then turn the A2 on.
- **2.** Select the patch for which you want to use the expression pedal.
- **3.** Set the Module selector to the "CONTROL" position.

The A2 goes into edit mode.

**4.** Turn parameter knob 1 to select one of the following modulation targets for the expression pedal.



#### • oF Pedal is inactive.

• vL

Volume

• CU, Cd, CH, CL COMP/LIMIT module

#### ● tU, td, tH, tL

TONE parameter (MODEL module)

#### • EU, Ed, EH, EL

MOD/EFX module

#### • dU, dd, dH, dL

DELAY/REVERB module

#### • Fb

Feedback control frequency

#### HINT

- Which parameter changes when the expression pedal is operated depends on the effect type of the selected module. For details, see pages 27 34.
- The way in which the expression pedal changes the parameter can be selected from four patterns (→ p. 33).

#### 5. If necessary, store the patch.

The expression pedal setting is stored as part of the patch.

# **6.** Select the patch in play mode and operate the expression pedal.

The selected function can be used.

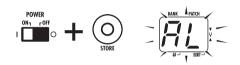
In the bypass condition, the pedal always functions as a volume pedal, regardless of the selection made in step 4.

# **Restoring Factory Defaults**

In the factory default condition, the patches of the user area (A0 - d9) contain the same settings as the patches of the preset area (00 - 39). Even after overwriting the user patches, their original content can be restored in a single operation ("All Initialize" function).

# **1.** Turn the A2 on while holding down the [STORE] key.

The indication "AL" appears on the display.



# **2.** To carry out the All Initialize function, press the [STORE] key once more.

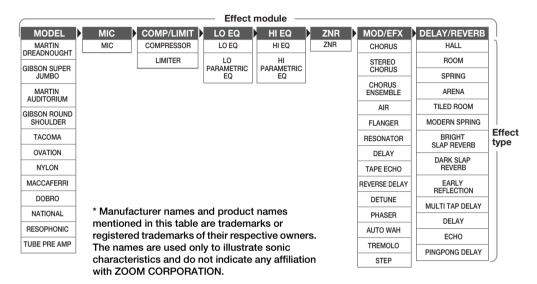
All patch settings are returned to the factory default condition, and the unit switches to play mode. To cancel All Initialize, press the RHYTHM [▶/■] key instead of the [STORE] key.

#### NOTE

When you carry out All Initialize, any newly created patches that were stored in the user area will be deleted (overwritten). Perform this operation with care to prevent losing any patches that you want to keep.

# **Linking Effects**

The patches of the A2 can be thought of as eight serially linked effect modules, as shown in the illustration below. You can use all effect modules together or selectively set certain modules to off to use just specific effect modules,



For some effect modules, you can select an effect type from several possible choices. For example, the MOD/EFX module comprises CHORUS, FLANGER, and other effect types from which you can choose one. The MODEL module is an effect for simulating the sound of various types of acoustic guitars. Switching effect types here means selecting different guitar body sounds.

# CONTROL module and GLOBAL module

Besides the above modules, the A2 also incorporates a CONTROL module and GLOBAL module. The CONTROL module comprises settings such as expression pedal and foot switch function allocation, as well as the master level that applies to all patches. The GLOBAL module lets you optimize the A2 characteristics to fit the requirements of pickup and guitar amp. It contains the following settings.

#### AMP SELECT

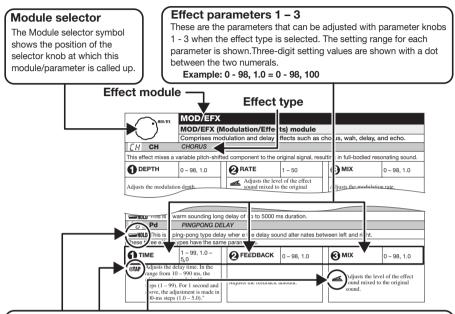
This parameter serves to optimize the frequency response of the A2 to fit the type of amplifier. It can be helpful to reduce the trebly sound that can be a problem when playing an acoustic guitar with a pickup through an amplifier. Settings with different effect depth are available for Combo, Stack, and other amp types.

#### PICKUP SELECT

This parameter serves to optimize the frequency response of the A2 to fit the type of pickup. It can also be used as a simulator for turning the sound of an electric guitar into that of an acoustic guitar.

# **Effect Types and Parameters**

## How to read the parameter table



#### Expression pedal

A pedal icon ( *(* ) in the listing indicates a parameter that can be controlled with the expression pedal (FP01/FP02).

Specify the respective module as modulation target for the expression pedal ( $\rightarrow$  p. 22), and then select the respective effect type of the module. The parameter can then be controlled in real time with a connected expression pedal.

#### Тар

A tap icon ( $\bigcirc$ **TAP**) in the listing indicates a parameter that can be set by repeatedly hitting (tapping) the foot switch (FS01). The tap function must have been assigned to the foot switch beforehand ( $\rightarrow$  p. 21), and a module that includes this parameter must be on.

In edit mode, tapping the foot switch will cause the respective parameter to be set according to the tapping interval (modulation cycle, delay time, etc.).

In play mode and manual mode, tapping the foot switch will cause the TIME parameter of the delay effect type in the DELAY/REVERB module to be temporarily changed. (In play mode and manual mode, only the delay effect in the DELAY/REVERB module can be controlled by tap input.)

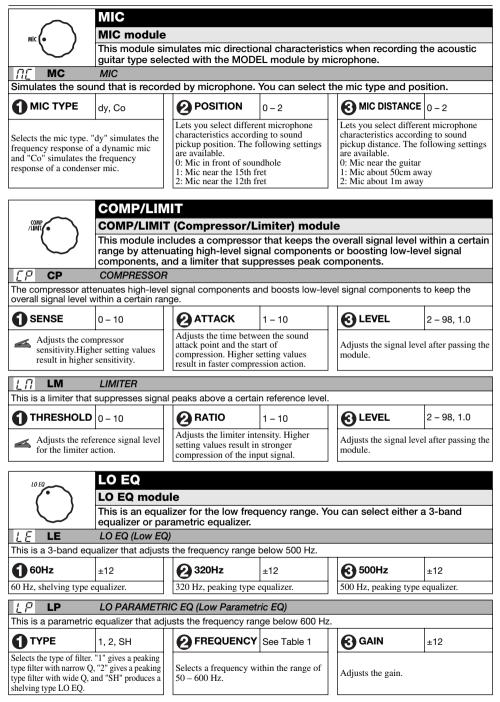
#### Hold

A hold icon ( **HOLD** ) in the listing indicates an effect type for which hold can be turned on and off with the foot switch (FS01).

Set the foot switch function to "dH" (delay hold) ( $\rightarrow$  p. 21) for the respective patch. When this patch is then selected in play mode or manual mode, the hold function can be switched on and off by pressing the foot switch.

	MODEL						
$\sim$	MODEL mod	ule					
MODEL	This module provides 12 types of acoustic guitar and mic preamp simulations. * Manufacturer names and product names mentioned in this table are trademarks or registered trademarks of their respective owners. The names are used only to illustrate sonic characteristics and do not indicate any affiliation with ZOOM CORPORATION.						
<i>∏d</i> Md	MARTIN DREAD	,					
	ARTIN D-28, one c	of the most popular a	coustic guitar.				
្រ៍រូវ GJ	GIBSON SUPER	I JUMBO					
Simulation of the G	IBSON SJ-200, kno	own as the "King of F	-lat-Tops".				
<i>П.</i> <b>МА</b>	MARTIN AUDIT	ORIUM					
Simulation of the N	IARTIN 000-18 with	a small-sized body	and clear sound.				
<u>[i</u> r Gr	GIBSON ROUNI	D SHOULDER					
Simulation of the G	IBSON J-45 that ha	as a warm and rich s	ound.				
<u> と〔 tC</u>	TACOMA						
Simulation of the T	ACOMA C3C that h	as a unique body an	d sound.				
ου ον	OVATION						
Simulation of the O	VATION ADAMAS 1	hat has a unique rou	nd backed body.				
កម្ម ny	NYLON						
Simulation of the N	YLON guitar sound	I that is suitable for E	Bossa Nova music	<b>).</b>			
<u></u>	MACCAFERRI						
Simulation of the S		RRI that is known for	<sup>-</sup> its gypsy jazz so	ound.			
db db	DOBRO						
Simulation of the D	OBRO MODEL 27	with a wood body an	d metal resonato	r.			
<u>್ಗ-</u> nt	NATIONAL						
Simulation of the N	ATIONAL RESO-PH	HONIC STYLE O with	n a brass body an	d metal resonator.			
<i>−E</i>   <b>r</b> E	RESOPHONIC						
ZOOM original reso	onator guitar sound	with strong characte	er.				
All above effect type	s have the same parar	neters.		1	-i1		
<b>O</b> DEPTH	0 – 98, 1.0		0 – 10		2 – 98, 1.0		
Adjusts the simulatio	n intensity.	Adjusts the so	und quality.	Adjusts the signal lev module.	el after passing the		
<i>EP</i> <b>t</b> ₽	TUBE PRE AMP	)					
ZOOM original tube preamplifier sound that allows adjusting the balance from an all solid-state path to a tube-based preamp.							
	<b>0</b> – 98, 1.0		0 – 10		2 – 98, 1.0		
Adjusts the am blended into th	ount of tube sound ne signal.	Adjusts the sound qu	ality.	Adjusts the signal lev module.	el after passing the		

#### Effect Types and Parameters



[Table 1]					
Display	5	10	20	40	60
Frequency	50Hz	100Hz	200Hz	400Hz	600Hz

	-								
HI EQ		EQ							
$\langle \cdot \rangle$	HI	EQ modu	le						
$\bigcirc$		This is an equalizer for the high frequency range. You can select either a 3-band equalizer or parametric equalizer.							
HE HE	·	EQ (High EC		4					
This is a 3-band	equalize	er that adjust	s the freque	ency range	above 1.2 kHz.				
1.2kHz	±12	2	6.3	κHz	±12	12kHz	±12		
1.2 kHz, peaking t	ype equa	lizer.	6.3 kHz, j	peaking type	equalizer.	12 kHz, shelving t	ype equalizer.		
HP HP	HI	PARAMETR	IC EQ (Higi	h Parametr	ic EQ)				
This is a parame	tric equ	alizer for the	frequency r	ange above	e 800 Hz.	1 1	1		
TYPE	1, 2	, SH	ØFRE	EQUENCY	See Table 2	GAIN	±12		
Selects the type of filter. "1" gives a peaking type filter with narrow Q, "2" gives a peaking type filter with wide Q, and "SH" produces a shelving type HI EQ.				Selects a frequency within the range of 800 Hz – 10 kHz.		Adjusts the gain.			
[Table 2]									
Display	80	2.0	4.0	8.0	10				
Frequency 80	00Hz	2kHz	4kHz	8kHz	10kHz				
ZNR	-7	ID.							
	ZN								
					n) module				
		s module se R (ZOOM No			pise during play	ing pauses.			
חר nr				,	na nausos witho	ut affecting the over	all topo		
-			i leuuces iii	Jise in playi	ng pauses witho	ut allecting the over	all tone.		
THRESHO	LD   1 -	16							
Adjusts the sensitive noise reduction, see possible without ca decay unnaturally.	t the value	ue as high as							
	. M	OD/EFX							
MOD/EF)	`		<b>/</b> lodulatio	on/Effec	ts) module				
$\smile$						chorus, wah, delay	y, and echo.		
[Н СН	СН	IORUS							
This effect mixes	a varia	ble pitch-shi	fted compo	nent to the	original signal, re	esulting in full-bodie	d resonating soun		
-			-						

DEPTH 🚯 MIX 0 – 98, 1.0 1 – 50 0 – 98, 1.0 Adjusts the level of the effect sound mixed to the original sound. Adjusts the modulation rate. Adjusts the modulation depth. STEREO CHORUS 55 SC This is a stereo chorus with clear sound. CHORUS ENSEMBLE EE CE

This is a chorus ensemble with complex undulation.

#### Effect Types and Parameters

The two effect types of	on the preceding pag	ge have the same paramet	ters.	-	
<b>О</b> DEPTH	0 – 98, 1.0		1 – 50		0 – 98, 1.0
Adjusts the modulation depth.		Adjusts the modulatio	Adjusts the modulation rate.		el of the effect the original
<i>∏</i> ⊢ Ar	AIR				
Simulates the ambie	ence of a room, gi	ving the sound spatial	depth.	1	
	2 – 98, 1.0		0 – 10	<b>MIX</b>	0 – 98, 1.0
Adjusts the spatial wi	dth.	Adjusts the sound qua	lity.	Adjusts the level sound mixed to sound.	
FL FL	FLANGER				
This effect produce	s a resonating and	d strongly undulating s	ound.		
	0 – 98, 1.0		0 – 50	<b>RESONANCE</b>	-10 – -1, 0, 1 – 10
Adjusts the modulation	on depth.	Motor Adjusts the	e modulation rate.	Adjusts the modulation r	esonance intensity.
-5 rS	RESONATOR				
Emphasizes a speci use this effect as pe		produces an undulatir	ng sound such as t	from a resonator guita	r. It is possible to
	1 – 50	RESONATOR LEVEL	0 – 98, 1.0		0 – 98, 1.0
Adjusts the free emphasized. W pedal is used, t same as pedal v	hen an expression he effect is the	Adjusts the mixing balance of the effect sound.		Adjusts the mixing balance of the original sound.	
d'_ dL	DELAY				
This is a delay with		g of 5000 ms.			
<u>E</u> <b>tE</b>	TAPE ECHO				
This effect simulate The above two effect		narameters			
	Î I				
	1-99, 1.0-5.0	<b>PEEDBACK</b>	0 – 98, 1.0		0 – 98, 1.0
Image: Stape Adjusts the delay time. In the range from 10 – 990 ms, the adjustment is made in 10-ms steps (1 – 99). For 1 second and above, the adjustment is made in 100-ms steps (1.0 – 5.0).       Adjusts the feedback amount.					
<i>r d</i> rd	REVERSE DEL	AY			
Produces a sound l	ike a tape played	in reverse.			
	1 – 99, 1.0 – 2.5	FEEDBACK	0 – 98, 1.0	<b>BALANCE</b>	0 – 98, 1.0
range from 10 adjustment is steps (1 – 99).	lay time. In the $-990$ ms, the made in 10-ms For 1 second and ustment is made in $(1.0 - 2.5)$ .	Adjusts the feedback a	amount.	Adjusts the bala original sound a	ance between and effect sound.

d'a dt	DETUNE					
This effect mixes a string guitar.	pitch-shifted comp	onent to the original s	signal, resulting in	resonating sound suc	h as from a 12-	
	-15 – -1, 0, 1 – 15		0 – 10		0 – 98, 1.0	
Adjusts the modulation	on depth.	Adjusts the sound qua	lity.	Adjusts the level sound mixed to sound.		
PH PH	PHASER					
This effect produces	s sound with a puls	ating character.		1		
	1 – 4		0 – 50	<b>S</b> RESONANCE		
Adjusts the type of so	und.	Adjusts the modulation rate. Adjusts the modulation resonance intensity.				
RH AW	AUTO WAH					
This effect varies wa	ah in accordance w	ith playing intensity.				
	-10 – -1, 1 – 10		0 – 10		0 – 98, 1.0	
Adjusts the effe	ect sensitivity.	Adjusts the resonance of the sound. Adjusts the level of the orig mixed to the effect sound.				
tr	TREMOLO					
This effect periodica	ally varies the volun	ne.				
<b>O</b> DEPTH	0 – 98, 1.0		0 – 50	<b>WAVE</b>	u0 – u9, d0 – d9, t0 – t9	
Adjusts the modulatio	on depth.	Adjusts the effect rate.		Allows selection of the modulation waveform. Available settings are "u" (rising sawtooth), "d" (falling sawtooth), and "t" (triangular). Higher setting values result in more clipping of wave peaks, which reinforces the effect.		
5E <b>St</b>	STEP					
Special effect for ac	coustic guitar that c	hanges the sound in	a staircase patteri	า.		
	0 – 98, 1.0		0 – 50		0 – 98, 1.0	
Adjusts the modulation	on depth.	Adjusts the	modulation rate.	Adjusts the level of the mixed to the original s		
	DELAY/REV	/ERB				
DELAY	DELAY/REVE					
	This module cor	nprises various rev	erb and delay fu	nctions. Delay effec	t allows use of	
the hold function.						
Simulates the acoustics of a concert hall.						
Simulates the acoustics of a room.						
5P SP SPRING						
Simulates a spring-type reverb.						
<i>R</i> ⊢ Ar	R <sub>C</sub> Ar ARENA					
Simulates the acoust		rt hall such as an are	na.			
<u>Er</u> tr	TILED ROOM					
Simulates the acous	stics of a tiled room	1.				

175 MS	MODERN SPR	IN	G				
			erb with bright sound				
The above six effect t	ypes have the same	pa	rameters.				1
<b>O</b> DECAY	1 – 30			0 – 10			0 – 98, 1.0
Adjusts the duration of	of the reverb.		Adjusts the sound qual	lity.		Adjusts the lev sound mixed to sound.	
5 bS	bS BRIGHT SLAP REVERB						
This is a reverb with	n bright sound wh	icl	n allows adjusting the	e pre-delay paran	ne	ter.	
dS dS	DARK SLAP R	ΕV	/ERB				
This is a reverb with	n dark sound whic	ch	allows adjusting the	pre-delay parame	ete	er.	
The above two effect	types have the same	e p	arameters.				
DECAY	1 – 30		PRE DELAY	0 – 30			0 – 98, 1.0
Adjusts the duration of	of the reverb.		Adjusts the pre-delay t adjustment is made in range of 0-300 ms.	time. The 10-ms steps in the		Adjusts the lev sound mixed to sound.	el of the effect o the original
Er Er	EARLY REFLEC	CI	TION				
This effect isolates	only the early refle	ec	tion components of t	he reverb.			
O DECAY	1 – 30		2 SHAPE	-10 – -1, 0, 1 – 10			0 – 98, 1.0
Adjusts the duration of the reverb.			Adjusts the envelope of the effect sound. In the negative range, the envelope is reversed. At 0, the effect is a gate reverb. In the positive range, the envelope is a decay-type envelope.		Adjusts the level of the effect sound mixed to the original sound.		
<i>∏d</i> md	MULTI TAP DE	L	4 <i>Y</i>				
This effect produce	s several delay co	om	ponents with differer	nt delay times.			
	1 – 99, 1.0 – 5.0		<b>2</b> PATTERN	1 – 8			0 – 98, 1.0
<ul> <li>Adjusts the delay time. In the range from 10 – 990 ms, the adjustment is made in 10-ms steps (1 – 99). For 1 second and above, the adjustment is made in 100-ms steps (1.0 – 5.0).</li> </ul>			Selects the combination pattern for the taps. The selection ranges from rhythmical to random patterns.		Adjusts the level of the effect sound mixed to the original sound.		
d' dL	DELAY						
	· ·	nur	m setting of 5000 ms				
<u> </u>	ECHO						
		<u> </u>	delay of up to 5000 r	ns duration.	_		
P <sub>d</sub> Pd	PINGPONG DE	EL,	AY				
<b>HOLD</b> This is a ping-pong type delay where the delay sound alternates between left and right.							
These three effect typ	es have the same pa	ira	meters.				·
	1 – 99, 1.0 – 5.0		<b>PEEDBACK</b>	0 – 98, 1.0			0 – 98, 1.0
range from 10 adjustment is steps (1 – 99)	elay time. In the $0-990$ ms, the made in 10-ms . For 1 second and ustment is made in $(1.0-5.0)$ .		Adjusts the feedback a	umount.		Adjusts the lev sound mixed to sound.	

$\frown$	CONTROL					
	CONTROL module					
CONTROL	Serves for making pedal settings and lets you control the foot switch function and master level setting applying to all patches.					
[ L Ct	CONTROL					
	See Table 3	ØFS	See Table 4		0 – 98, 1.0	
When an expression pedal (FP01/FP02) is connected to the [CONTROL IN] jack, this selects the modulation target module for the RTM function (see Table 3).		When a foot switch (FS01) is connected to the [CONTROL IN] jack, this selects the function that can be operated with the foot switch (see Table 4). The function selected here applies to all patches.		Adjusts the master lev	el for all patches.	

#### [Table 3]

Setting	Modulation target
oF	OFF
vL	Volume
CU, Cd, CH, CL	COMP/LIMIT module (*)
tU, td, tH, tL	TONE parameter of MODEL module (*)
EU, Ed, EH, EL	MOD/EFX module (*)
dU, dd, dH, dL	DELAY/REVERB module (*)
Fb	Frequency of feedback control function.

[Table 4]	
Setting	Function
bP	Bypass/Mute
tP	Tap tempo
bU	Bank up
rH	Rhythm function on/off
dH	Delay hold
dM	Delay input mute
Mn	Manual mode on/off
Fb	Feedback control function on/off

The operation of modules denoted by (\*) changes as follows, according to the letter at right.

#### 11 UP

The parameter is at minimum when the pedal is fully raised and at maximum when the pedal is fully pushed down.

#### d DOWN

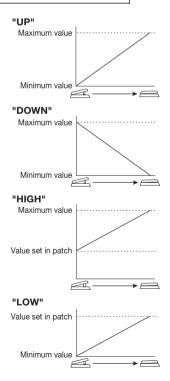
The parameter is at maximum when the pedal is fully raised and at minimum when the pedal is fully pushed down.

## HIGH

When the pedal is fully raised, the parameter is at the value set in the patch. When the pedal is fully pushed down, the parameter is at maximum.

## LOW

When the pedal is fully raised, the parameter is at minimum. When the pedal is fully pushed down, the parameter is at the value set in the patch.



-	GLOBAL						
	GLOBAL module						
GLOBAL	Serves for making settings to match the guitar amplifier and pickup in use and to control the feedback control function. The settings of this module apply to all patches.						
<u><u><u></u>[]</u> GL</u>	GLOBAL						
	See Table 5		oF, At,1 – 30	AMP SELECT	See table 6		
Modifies the sound quality depending on the guitar or pickup that is used, to fully bring out the simulation capabilities of the MODEL module (see table 5).		Reduces acoustic feedback by attenuating the frequency band where the feedback occurs. The frequency can be detected automatically or manually. For details on how to use the FEEDBACK CONTROL function, see page 18.		This parameter serves frequency band that cc when an acoustic guitt via a guitar amplifier ( Choose the suitable se on the amplifier that is the value as required.	an sound harsh ar is reproduced (see table 6). tting depending		

[Table 5]		[Table 6]	
Setting	Content	Setting	Content
oF	OFF	oF	Sets the AMP SELECT parameter to OFF.
bP	Designed for use with a piezo pickup having a bright sound.	b1 – b9	Designed for use with combo type amplifiers having a bright sound. Higher values result in stronger attenuation effect.
dP	Designed for use with a piezo pickup having a dark sound.	C1 – C9	Designed for use with regular combo type amplifiers. Higher values result in stronger attenuation effect.
bM	Designed for use with a magnetic pickup having a bright sound.	S1 – S9	Designed for use with stack type amplifiers. Higher values result in stronger attenuation effect.
dM	Designed for use with a magnetic pickup having a dark sound.		
SE	Designed for use with an electric guitar and single-coil pickup(s).		
HE	Designed for use with an electric guitar and humbucker pickup(s).		

## **Specifications**

Max 8 simultaneous modules

24 bit, 64 times oversampling

24 bit, 128 times oversampling

2-digit 7-segment LED Parameter LEDs

For FP02 (FP01)/FS01

700 g (without batteries)

Four IEC R6 (size AA) batteries.

162 mm (D) x 156 mm (W) x 65 mm (H)

Expression pedal FP02/ Foot switch FS01

Standard mono phone jack

20 Hz – 40 kHz +1 dB -3 dB (with 10 kilohms load)

Standard stereo phone jack (doubles as line and headphone jack)

Line: +5 dBm (output load impedance 10 kilohms or more)

9 V DC, 300 mA (center minus plug) (ZOOM AD-0006)

Approx. 7.5 hours continuous operation (alkaline batteries)

Phones: 20 mW + 20 mW (into 32 ohms load)

User area: 10 patches x 4 banks Preset area: 10 patches x 4 banks

47

96 kHz

32 bit

-20 dBm

1 megohm

Effect types Effect modules Patches

Sampling frequency A/D converter D/A converter Signal processing Frequency response Display

Input Rated input level Input impedance Output Maximum output level

Control input Power requirements AC adapter Batteries

Dimensions Weight Options

• 0 dBm = 0.775 Vrms

Design and specifications subject to change without notice.

# Troubleshooting

#### • Volume is low

Adjust the patch level ( $\rightarrow$  p. 9) or master level ( $\rightarrow$  p. 33). When using a pickup with low output, start the A2 in HI-GAIN mode ( $\rightarrow$  p. 6).

#### Matching problem with particular pickup or guitar amplifier

Check the PICKUP SELECT and AMP SELECT settings.

#### • Delay/reverb effect does not work

DELAY/REVERB module is inactive while a

rhythm pattern is playing. Stop rhythm playback ( $\rightarrow$  p. 12).

#### High level of noise

Adjust ZNR module. Be sure to use only a ZOOM AC adapter (ZOOM AD-0006).

#### Battery life is short

Are manganese batteries being used? Continuous operation time is 7.5 hours with alkaline batteries. The use of alkaline batteries is recommended.

## **A2 Preset Pattern**

No	PatternName	TimSig	No	PatternName	TimSig
1	8beat_1	4/4	21	3per4	3/4
2	8beat_2	4/4	22	6per8	3/4
3	8beat_3	4/4	23	5per4_1	5/4
4	8shuffle	4/4	24	5per4_2	5/4
5	16beat_1	4/4	25	COUNTRY	4/4
6	16beat_2	4/4	26	RAGGAE	4/4
7	16shufle	4/4	27	LATIN1	4/4
8	ROCK	4/4	28	LATIN2	4/4
9	FUNK_1	4/4	29	LATIN3	4/4
10	FUNK_2	4/4	30	BALLAD_1	4/4
11	HIPHOP	4/4	31	BALLAD_2	3/4
12	R'nR	4/4	32	BLUES_1	4/4
13	POP_1	4/4	33	BLUES_2	3/4
14	POP_2	4/4	34	JAZZ_1	4/4
15	POP_3	4/4	35	JAZZ_2	3/4
16	POP_4	4/4	36	JAZZ_3	4/4
17	DANCE_1	4/4	37	METRO_3	3/4
18	DANCE_2	4/4	38	METRO_4	4/4
19	DANCE_3	4/4	39	METRO_5	5/4
20	DANCE_4	4/4	40	METRO	



#### ZOOM CORPORATION

ITOHPIA Iwamotocho 2chome Bldg. 2F, 2-11-2, Iwamoto-cho, Chiyoda-ku, Tokyo 101-0032, Japan Web Site: http://www.zoom.co.jp

# A2 Patch List

CATEGORY	No	NAME	MODEL	KEY EFFECT	COMMENT	
		D-28	MARTIN D-28	MARTIN D-28	The sound of a Martin D-28, the "gold standard" of acoustic guitars. Dynamic and gorgeous.	
MODEL	A1	J-200	GIBSON J-200	GIBSON J-200	Simulation of a Gibson J-200 with its large, impressive body and sound to match.	
	A2	TRIPLE 0	MARTIN 000-18	MARTIN 000-18	Simulation of the increasingly popular Martin 000-18 with its compact, handy body and finely nuanced sound.	
	A3	J-45	GIBSON J-45	GIBSON J-45	The Gibson J-45 is characterized by its warm and rich tone. A true "workhorse" beloved by many guitarists.	
	<b>A</b> 4	ADAMAS	OVATION	OVATION	The tone of the Ovation Adamas which has a body made from a special material called Lyrachord and rounded shape to focus the sound.	
	A5	ТАСОМА	TACOMA C3C	TACOMA C3C	Typical midrange oriented sound of a Tacoma C3C with its innovative design and unique soundhole position.	
	A6	NYLON	NYLON	NYLON	Nylon guitar sound great for Bossa Nova and other Latin styles. The trick is to play with your finger cushions.	
	A7	DJANGO	SELMER MACCAFERRI	SELMER MACCAFERRI	Sound of the Selmer-Maccaferri guitar best known as the favored instrument of Django Reinhar The true sound of Gypsy Jazz.	
	<b>A</b> 8	DOBRO	DOBRO	DOBRO	Sound of the Dobro Model 27 with its square neck and resonator. Indispensable for Bluegrass an Country Blues.	
	A9	NATIONAL	NATIONAL	NATIONAL	The brass body of the National Reso-Phonic Style "O" produces a more metallic sound than a Dobro.	
	В0	SYMPHONY	MARTIN D-28	CHORUS ENSEMBLE	Beautiful symphonic sound suitable for any playing style.	
	B1	TUBY	TUBE PRE AMP	HALL	Straight sound of a tube preamp seasoned with some hall reverb. Really comes into its own when multiple strings resonate together.	
	B2	SLOW CHORUS	SELMER MACCAFERRI	CHORUS ENSEMBLE	Slow chorus sound for finger style Jazz. Experience the spatial depth and ambience of a chorus ensemble.	
	<b>B</b> 3	BIG HALL	MARTIN D-28	HALL	Long reverb that brings out the glorious Martin D-28 sound to the max. Let loose with fingerpicking.	
CHORUS &	<b>B</b> 4	FLANG	TACOMA C3C	MODERN SPRING	Flanger with a chorus-like feel is great for a wide playing range, from arpeggios to stroking.	
REVERB	B5	MELODIC	TUBE PRE AMP	BRIGHT SLAP REVERB	Tube preamp patch for picked solos makes the original sound stand out with a slightly delayed reverb.	
	<b>B6</b>	CHORUS WALL	MARTIN D-28	STEREO CHORUS	Select this stereo chorus & doubling patch and feel the sound waves move in like a wall.	
	B7	BRIGHT CHORUS	MARTIN 000-18	CHORUS	With a clearly defined effect similar to chorus for electric guitar, this bright and clear sound fits many music genres.	
	<b>B</b> 8	STUDIO FLANGER	MARTIN D-28	BRIGHT SLAP REVERB	Combination of flanger for chord and arpeggio playing, and reverb for bringing out the original sound. Lends impressive depth to the sound on slow numbers.	
	В9	12STRINGS	OVATION	DETUNE	Simulates the sound of chord strokes on a 12-string guitar. Experience that naturally gorgeous tone with your own guitar.	
	C0	PARIS TEXAS	NATIONAL	NATIONAL	Slide sound such as played by Ry Cooder on the soundtrack of "Paris, Texas" by Wim Wenders	
	C1	AERIAL BOUNDARIES	MARTIN D-28	CHORUS ENSEMBLE	This patch is inspired by the sound of Michael Hedges on his groundbreaking masterpiece "Aerial Boundaries".	
	C2	CROSS ROAD	NYLON	NYLON	The sound of legendary pre-war Blues guitarist Robert Johnson, spruced up with a simulation of that late 1930s atmosphere.	
	C3	SCARBOROUGH	MARTIN D-28	HALL	Reexperience the translucent sound of Scarborough Fair on Simon & Garfunkel's third album.	
ARTIST	C4	TEARS	MARTIN OOO-18	ROOM	Eric Clapton, MTV Unplugged, say no more. Comfortable, warm sound, yet a clear standout even in a band ensemble.	
	C5	INNOCENT	NATIONAL	AIR	Whether for slide or fingerpicking, this Ben Harper inspired sound matches various styles.	
	C6	HERE COMES	GIBSON J-45	STEREO CHORUS	The acoustic guitar sound plus the entire ambience of the Beatles' Abbey Road album.	
	C7	FRIDAY NIGHT	OVATION	ARENA	Al di Meola's epoch-making performances come to live again. Go for that peerless technique and feel the audience respond.	
	C8	ABOUT A GIRL	GIBSON J-200	CHORUS	Simulates the unusual acoustic character of Nirvana Unplugged. Tune your strings lower and turn into Kurt.	
	C9	ACOUSTIC ELVIS	GIBSON J-200	SPRING	Powerful acoustic sound familiar from Elvis Presley's Country style hits.	
	D0	PHASE TOP	GIBSON J-200	PHASER	This solid and compact phase tone is the new "allrounder" for acoustic instruments.	
	D1	SOFT TREMOLO	MARTIN D-28		Soft, expressive tremolo sound optimized for acoustic guitar. Natural acoustic sound modeled on a live J-45. Suitable for finger play, picking, and many other	
	D2 D3	MINOR SWING	GIBSON J-45	AIR	applications. Classic Bebop Jazz sound for when you just can't stop swinging.	
	D0	BOTTLE	DOBRO	ECHO	Warm wooden tone not only for nuanced bottleneck playing.	
VARIATION	D5	FUNKY FOLK	TUBE PRE AMP	AUTO WAH & MULTI TAP DELAY	Funky sound with auto wah and multi tap takes acoustic guitar to a new level.	
	D6	MY BACKWARD FRIENDS	RESOPHONIC	REVERSE DELAY	Psychedelic sound using reverse delay will grow on you. Use it to develop a theme.	
	D7	STEPPING STONES	OVATION	STEP & MULTI TAP DELAY	Brilliant trickster sound using a new step technique specially developed for acoustic guitar use.	
	D8	OVATION SOLO	OVATION	DELAY	Bright sound with clear delay components and an Ovation style edge for solos.	
	D9	RESOPHONIC	RESOPHONIC	PINGPONG DELAY	Discover new possibilities in bottleneck playing with this combination of ping-pong delay and Zoom	
	20	· · ····			original resonator guitar sound.	

• The preset area of banks 0 - 3 contains the same patches as A - d.

• The ZNR value may need to be adjusted depending on the guitar and amplifier.

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