

ZOOM506 BASS Operation Manual Introduction

Thank you for selecting the **ZOOM 506 II** (hereafter simply called the "**506 II**").

Please take the time to read this manual carefully so as to get the most out of the unit and to ensure optimum performance and reliability.

Retain this manual, the warranty card and all other documentation for future reference.

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SAFETY 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 506 II.

About power

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

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.
- · If the unit is not to be used for a long time, disconnect the AC adapter from the outlet.

Battery operation

- · Use four IEC R6 (size AA) 1.5 V batteries (alkaline/manganese)
- · The 506 II cannot be used for recharging. Pay close attention to the labelling of the battery to make sure you choose the correct type.
- · If the 506 II is not to be used for an extended period of time, remove the battery 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

Caution Avoid using your 506 II in environments where it will be exposed to:

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

Handling

- · The 506 II is a precision instrument. Except for the foot switches, do not push other parts with your feet or subject them to strong force.
- · Take care that no foreign objects (coins or pins etc.) or liquids can enter the unit.
- · Be sure to turn the power to all equipment off before making connections.
- · Before moving the unit, turn the power off, and disconnect all cables and the AC adapter.

Alterations

Never open the case of the 506 II or attempt to modify the product in any way since this can result in damage to the unit

Features

The 506 II is a sophisticated multi effect processor for bass guitar with the following features and functions:

Top level performance

While similar in price to a compact effect device, the 506 II incorporates a varied palette of 33 effects. Up to eight effects (including ZNR and amp simulator) can be combined in a patch. The memory of the unit holds 36 rewritable patches, providing noholds-barred performance.

Intuitive user interface ٠

The user interface has been thoroughly redesigned. Large switches and keys and a rotary selector make the unit extremely simple to operate. Any desired effect can be called up swiftly and without fuss.

Great bass effects ٠

The 506 II includes a number of unique effects designed specially for bass players, such as the innovative bass synthesizer and the "cry" effect that simulates a talking modulator. This makes it a snap to create your own original sound.

Built-in auto-chromatic tuner

The integrated tuning function for bass lets you quickly and precisely tune your instrument on stage.

Dual power supply enables operation anywhere

The dual power supply principle allows the unit to be powered either from an AC adapter or from four IEC R6 (size AA) batteries. Continuous operation time on batteries is 8 hours with manganese batteries and 28 hours with alkaline batteries.

Compatible with foot switch and pedals ٠

An optional foot switch (FS01) or expression pedal (FP01/FP02) can be connected to the CONTROL IN jack. The foot switch is useful for quickly switching patches, and the expression pedal can serve to adjust the volume or effect tone in real time.

Improved successor to 506

While inheriting the sound characteristics of the very successful ZOOM model 506, the 506 II is even more compact and carries a lower price tag. And what's more, it incorporates nine new effects, including bass distortion effects using sophisticated modeling techniques, practical stage-use and special effects.



Terms Used in This Manual

This section explains some important terms that are used throughout the 506 II documentation.

Effect module

As shown in the illustration below, the 506 II can be thought of as a combination of several single effects. Each such effect is referred to as an effect module. In addition to modules comprising compressor effects (COMP) or distortion effects (DIST), the 506 II also provides a module for ZNR (ZOOM Noise Reduction) and an amp simulator. Parameters such as effect intensity can be adjusted for each module individually, and modules can be switched on and off as desired.

Effect type

Terms Used in This Manual

Within each effect module, there are several different effects which are referred to as effect types. For example, the modulation effect module (MOD) comprises chorus, flanger, pitch shifter, and other effect types. Only one of these can be selected at a time. An effect type is also often simply referred to as an effect.

Effect parameter

All effect modules have various parameters that can be adjusted. When likening an effect module to a compact effect device, the parameters can be thought of as the control knobs on the device. Changing the parameter settings will result in changes to items such as effect intensity and tonal characteristics.

Patch

In the 506 II, effect module combinations are stored and called up in units referred to as patches. A patch 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 memory of the 506 II can store up to 36 patches.

Bank

A group of six patches is called a bank. The 506 II manages a total of six banks, labelled A through F. The patches within each bank are numbered 1 through 6. To specify a patch, the 506 II uses the following format: "A1". This means that patch number 1 from bank A is selected. Therefore "b6" would refer to patch 6 from bank b.



Plav mode/edit mode

1. Turn the 506 II over and open

The internal status of the 506 II is referred to as the operation mode. The two major modes are play mode, in which you can select patches and use them for playing your instrument, and edit mode, in which you can modify the effects. The [PLAY/EDIT] selector serves for switching between the play mode and edit mode.

2. Insert four fresh IEC R6

Using the unit on batteries

the cover of the battery (size AA) batteries into the compartment on the bottom. battery compartment. Press the latch to release it and then raise the cover Insert all batteries with the same orientation. 'n Four IEC R6 (size AA) batteries N Tab Batterv compartment cover Close the cover of the battery compartment. Close the cover of the battery compartment. Rear of 506 II Push the cover in until the latch audibly snaps into place.

Use four IEC R6 (size AA) batteries.

When the batteries are getting low, a dot (.) in the bottom section of the display starts to flash.



l→ OUT

While not using the 506 II, you should disconnect the cable plugged into the INPUT jack, to prevent draining the batteries.



Controls and Functions





Controls and Functions

Selecting Patches for Play

Selecting Patches for Play

To try out the 506 II, we recommend that you simply play your instrument while switching patches. This will let you quickly see what the 506 II can do.

6 Power-on

Selecting Patches for Play

- When using the 506 II on batteries. plug a shielded cable with mono phone plug into the INPUT jack of the 506 II.
- When using the 506 II with the AC adapter, plug the adapter into the outlet and plug the cable from the adapter into the DC 9V jack on the 506 II.
- Turn on the bass guitar amplifier and adjust the volume to a suitable position.

2 Set 506 II to play mode

- When the [PLAY/EDIT] selector is set to a different position, set it to "PLAY".
 - The currently selected bank and patch number are shown on the display. Bank Patch

Immediately after turning on power (HINT number to the 506 II. the unit will be in play mode also if the [PLAY/EDIT] selector is set to a different

Switch patches

• To switch patches in play mode, use the $[\mathbf{v}]/[\mathbf{A}]$ foot switches.

position.



^{200M}506]]

BASS

H | H ENH | CLN1 | CLN2 | FAT | SLAP | EDGE | VINTAGE | FUZZ | THRASH

COMP WAH

PATCH

LEVEL

 \bigcirc

PLAY

ONTOUR **PRASS SYNTH**

ELANGER

DEFRET

HALL ROOM

-RYPAS

RANK

• You can use the [+]/[-] keys to directly

To adjust the master



Using the Tuner Function

• Adjusting the reference

The center A reference frequency of the built-in

pitch of the tuner

tuner can be fine-adjusted.

The 506 II incorporates an auto-chromatic tuner for bass guitars. 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



2 Tune the bass guitar

 Play the open string you want to tune, and watch the display.

The left side of the display shows the note which is closest to the current pitch.



The right side of the display shows a symbol that indicates by how much the tuning is off.



• Tune the other strings in the same way.





• Mute:

Bypass:

Using the Tuner Function

Editing a Patch

The patches of the 506 II can be freely edited by changing the effect parameter settings. Try editing the currently selected patch to create your own sound.

Select the effect parameter

• Use the [PLAY/EDIT] selector to select the effect you want to change.

change. The value of the currently selected parameter is

selected parameter is shown on the display. (When the 506 II is in edit mode, a dot (.) is shown in the bottom right section of the display.)



Modules and parameters that can be selected with the [PLAY/EDIT] selector





Unless you store the edited patch in memory, the settings you made will be lost when you select a different patch after returning to the play mode. Do not forget to store an edited patch that you wish to keep, as described on page 14.

Change the parameter value

Storing/Copying Patches

An edited patch can be stored at any desired location in the internal memory of the unit. It is also possible to copy an existing patch and store it at another location.

Press the STORE key in play mode or edit mode.

The bank and patch number on the display are flashing.











Press the STORE key once more.

When the store/copy process is completed, the unit reverts to the original mode, with the target patch being selected.



When the store/copy process is executed, the previous content of the store target is overwritten and cannot be restored if it was a usercreated patch. You should therefore take care when selecting a target patch. However, the factory default settings of an individual patch or all patches can be restored, as described on page 19. Storing/Copying Patches

To cancel the store/copy process

• Press the [-] key instead of the STORE key.

The store process is aborted and the unit reverts to the previous mode.



The store process is also canceled when $\ensuremath{\left[\text{PLAY}/\text{EDIT} \right]}$ selector is operated instead of the [-] key.

Changing the "Patch Call" Method

In normal operation, the sound of the 506 II will change immediately if a patch is selected in play mode. This may be undesirable if a patch from a distant memory location is called and the sound of other unwanted patches in between is heard. If desired, you can change the "Patch call" method from direct selection to the pre-select method. In pre-select mode, you first specify the desired patch and then confirm the selection. The sound will only change after you have confirmed the operation.

Changing the "Patch call" method to pre-select

To change the "Patch call" method to preselect, you must turn the unit on while holding down the $[\blacktriangle]$ foot switch.

Specifying the desired patch

• Use the [▼]/[▲] foot switches to select the patch you want to use next.

You can also use the [+]/[-] keys to only switch the bank.







The bank and patch number of the patch to be used next will be shown on the display, but the sound does not yet change.

Changing the "Patch Call" Method

Confirm the patch change

 When the desired patch is shown, press the [♥]/[▲] foot switches together.





The patch change is confirmed, the sound changes, and the display stops flashing and stays constantly lit.

Changing the "Patch call" method back to direct select

• To change the "Patch call" method back to normal direct select operation, simply turn the unit off and back on again.

This will return the patch select method to the default setting.

ZOOM 506 II BASS —

Changing the "Patch Call" Method

Using the Optional Pedal

The 506 II 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 changing banks with the foot switch while the unit is in play mode. (Operating the foot switch in play mode has the same effect as pressing the [+] key.)

1. Plug the cable from the FS01 into the CONTROL IN jack, and then plug the appropriate cable into the INPUT jack (or DC 9V jack).

2. Press the foot switch.

With each push of the foot switch, the bank is switched up.



Using the expression pedal (FP01/FP02)

Connecting an expression pedal (FP01/FP02) to the CONTROL IN jack allows adjusting the volume or an effect parameter in real time. For information on parameters that can be adjusted with the expression pedal, please refer to pages 22 - 29.

1. Plug the cable from the expression pedal into the CONTROL IN jack, and then plug the appropriate cable into the INPUT jack (or DC 9V jack).

2. Select the patch in play mode, and move the expression pedal back and forth.

Depending on the program content of the patch, the volume or effect parameter will change.



If the foot switch or expression pedal is connected to the 506 II while the unit is powered, malfunction may occur. Be sure to plug the foot switch or expression pedal into the CONTROL IN jack first and then plug the appropriate cable into the INPUT jack (or DC 9V jack).

The pedal is active also in edit mode.

Restoring Factory Defaults

The 506 II comes with 36 preprogrammed patches. These factory default patches can be restored also if they were overwritten by patches created by the user.

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

1. While holding down the STORE key, plug the appropriate cable into the INPUT jack (or DC 9V jack).

The indication "AL" flashes on the display.



To perform All Initialize

2. 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 [-] key.



All user-created patches will be lost when performing All Initialize. Use this function with care.

To perform Factory Recall

Use the [▼]/[▲] foot switches to select the patch you want to return to the original condition.

The specified bank and patch number are flashing on the display.



During Factory Recall, the [+]/[-] keys cannot be used to switch the bank only.

3. Press the STORE key once more.

The settings of the specified patch are returned to the factory default condition.

If desired, repeat steps 2 and 3 to restore other patches. To terminate the Factory Recall operation, press the [-] key. The unit will switch to the play mode at this point.

ZOOM 506 II BASS

Linking Effects

The patches of the 506 II consist of seven serially linked effect modules, as shown in the illustration below. (The maximum number of effects that can be used simultaneously is 8.) You can use all effect modules or selectively set certain modules to on or off.

(— E	ff	ect mo	00	dule –	-		-		
	COMP COMPRESSOR LIMITER FAT WAH PEDAL FAT WAH RESONANT WAH PEDAL RESONANT WAH	DIST BANDPASS ENH HIPASS ENH CLEAN 1 CLEAN 2 RICH FAT SLAP EDGE DRIVE VINTAGE FUZZ THRASH			ZNR ZNR				MOD CHORUS 1 PEDAL CHORUS 1 CHORUS 2 PEDAL CHORUS 2 FLANGER PEDAL STEP PEDAL STEP CRY1 CRY2 PEDAL CRY DEFRET PEDAL DEFRET BASS SYNTH PEDAL BASS SYNTH OCTAVE-CHORUS PEDAL OCTAVE OCTAVE-CHORUS PEDAL OCTAVE PEDAL DEFRET		DLY/REV DELAY ECHO HALL ROOM Effe typ	
									PEDAL PITCH DOWN PEDAL PITCH UP		_	J

Within the effect modules, you can select an effect type from several possible choices. For example, the COMP module contains various compressor and limiter effect types, from which you can choose one. The MOD module allows you to choose two effect types simultaneously, such as OCTAVE > CHORUS.

Effect Types and Parameters

Starting on the next page, all effect types in all effect modules are listed, together with their parameters.

How to read the listing

Display



Expression pedal

A pedal icon (with the expression pedal (FP01/FP02).

When such a parameter is selected, the respective module can be controlled in real time with a connected expression pedal.



sound will correspond to the representative setting of that effect.

If there is no parameter marked with a pedal icon selected in the entire patch, the expression pedal operates as a volume pedal.





PATCH LEVEL

PATCH LEVEL

gain (input level and output level are equal).

(3D)



connected to the CONTROL IN jack for pedal wah. The expression pedal then controls the frequency that is emphasized by the fat wah effect.

RESONANT WAH (Resonant Wah)

This effect type applies auto wah to a narrow frequency band, resulting in a special effect. Higher right-digit setting values result in higher input sensitivity for the auto wah effect

PEDAL RESONANT WAH (Pedal Resonant Wah)

This effect type allows using an expression pedal (FP01/FP02) connected to the CONTROL IN jack to control the frequency that is emphasized by the resonant wah effect.

OFF (Off)

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dr	DRIVE (Drive: distortion effect) Overdrive sound with emphasized midrange.
υĿ	VINTAGE (Vintage: distortion effect) Overdrive sound simulating a vintage amplifier.
FU	FUZZ (Fuzz: distortion effect) Wild fuzz sound.
ĿН	THRASH (Thrash: distortion effect) Distortion sound suitable for thrash metal.
oF	OFF (Off) Turns the DIST module off.



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Pd

GAIN

DIST module extended parameters

These parameters serve to adjust the sound outline or distortion depth for the effect type selected with the DIST module basic parameters.

GAIN (Gain)

The function of this parameter depends on the effect type selected for the DIST module.

. When a clean type effect such as C1 or bE or an enhancer effect is selected

Higher setting values emphasize the outline of the sound.

· When a distortion effect such as dr or FU is selected Higher setting values result in stronger distortion.

PEDAL DIST (Pedal Distortion)

Using the expression pedal connected to the CONTROL IN jack, the $\overline{\text{GAIN}}$ value (1 - 30) can be controlled.



EQDPHASE

EQ module basic parameters

This module comprises a 4-band equalizer and phaser. Use the [+]/[-] keys to select the effect type and adjust the effect intensity.

4 BAND EQ (4-Band Equalizer)





CONTOUR

EQ module extended parameters

These parameters serve to adjust the effect operation for the effect type selected with the EQ module basic parameters.

CONTOUR (Contour)



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4 BAND EQ is selected

Using the 0 value as a reference (flat setting), negative values cause an increasing boost in the low range and positive values cause an increasing boost in the high range. When the EQ module is On, this parameter is always active. Check this parameter if the 4-band EO effect type setting does not seem to produce the desired results.

PHASE SHIFT is selected

Using the 0 value as a reference, changing the value towards negative or positive makes the phaser effect stronger. (Negative values result in reversed phase for the effect sound feedback.)



ZNR/	ZNR/AMP ZNR/AMP module basic parameters	[P	PEDAL CHORUS 1 (Pedal Chorus 1) Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the chorus 1 intensity can be adjusted.
	Serves for making the ZNR module and AMP module settings. ZNR is a noise reduction circuit developed by ZOOM, allowing control over the noise threshold. The AMP module is a bass guitar amp simulator that can be switched on or off.	<u></u>] 	CHORUS 2 (Chorus 2) This is a bright sounding chorus effect with depth and spread. Higher right- digit setting values result in a more pronounced chorus effect.
silent passa	M Noise Reduction) serves for reducing noise during play pauses or ges. Higher setting values result in more efficient noise reduction. Set	<u>c</u> P	PEDAL CHORUS 2 (Pedal Chorus 2) Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the chorus 2 intensity can be adjusted.
AMP (An The amp sin	s high as possible without causing the sound to be cut off unnaturally. np Simulator) mulator adds the character of a bass guitar amplifier to the output signal. setting is selected, the amp simulator is on and ZNR is off.	F_1 F_9	FLANGER (Flanger) This effect produces a unique, undulating sound by shifting the pitch up and down. Higher right-digit setting values result in faster modulation.
ZNR+AN ZNR and ar more efficie	IP (ZNR + Amp Simulator is on and Zivk is on. IP (ZNR + Amp Simulator) mp simulator are both on. Increasing the right- digit value results in ent noise reduction. Set the value as high as possible without causing the cut off unnaturally.	FP	PEDAL FLANGER (Pedal Flanger) Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the flanger modulation rate can be adjusted. The adjustable range is larger than available with F1 - F9.
OFF (Off	,	5 <u>1</u> 59	STEP (Step) This effect introduces a filter which changes randomly, resulting in an auto-arpeggio sound. Higher right-digit setting values give faster step sound change.
	MOD MOD module basic parameters	5P	PEDAL STEP (Pedal Step) Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the step sound change rate can be adjusted.
·MOD	This effect module comprises modulation effects such as chorus, flanger, and octaver. Use the [+]/[-] keys to select the effect type and adjust the effect intensity.		CRY1 (Cry 1) This effect changes the sound in a similar way as a talking simulator. Higher right-digit setting values result in more pronounced sound change.
This effect resulting i a more pro-	S (Chorus) t mixes a variable pitch-shifted component to the original signal, n full-bodied and expansive sound. Higher setting values result in nounced chorus effect. PITCH Effect sound (left channel)	F_5 F_9	CRY2 (Cry 2) This is a cry effect with a different sound character. Higher right-digit setting values result in more pronounced sound change.
PITCH + [] 0	Original sound	r P	PEDAL CRY (Pedal Cry) Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the cry type sound change can be adjusted.
	TIME PITCH + 0 - TIME TIME		DEFRET (Defret) This effect makes the sound of a fretted bass resemble that of a fretless bass. It is especially suitable for playing single notes. Higher right-digit setting values result in a more pronounced defret effect.



	DEDAL DEEDET (Dada) Dafrat)		
67 61 69	 PEDAL DEFRET (Pedal Defret) Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the defret effect intensity can be adjusted. BASS SYNTH (Bass Synthesizer) This effect creates the sound of a bass synthesizer. It is best suited for playing single notes. You can select among nine patterns (b1 - b9) with preset sound character and mixing balance. b1: Bass synthesizer with fat low end and multiple harmonics (only effect sound is output) b2: Bass synthesizer with resonant filter (only effect sound is output) b3: Bass synthesizer with soft sound and few harmonics (only effect sound with a slight amount of original sound mixed in b5: b2 effect sound with a slight amount of original sound mixed in b7: b1 effect sound and original sound in 1:1 ratio b8: b2 effect sound and original sound in 1:1 ratio DEDAL BASS SYNTH (Dodal Base Synthesizer)		P1/P2:
<u>69</u>	PEDAL BASS SYNTH (Pedal Bass Synthesizer) Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the mixing ratio of b2 effect sound and original sound can be adjusted.		P3/P4:
0_ 0-5	OCTAVE (Octaver) This effect downshifts the sound by one octave and mixes it to the original sound. Higher right-digit setting values result in a higher effect sound ratio.		P5/P6:
6) 69	OCTAVE > CHORUS (Octaver > Chorus) This effect type is a serial connection of octaver and chorus. Higher right- digit setting values result in stronger octaver sound. (Chorus intensity is fixed.)		P7/P8: $\begin{array}{c c} & & & & & & \\ \hline & & & & & & \\ \hline & & & &$
	PEDAL OCTAVE (Pedal Octaver)		PEDAL PITCH DOWN (Pedal Pitch Down)
οP	Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the mixing ratio of octaver effect sound and original sound can be adjusted.	<u>Pc</u>	Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the pitch of the effect sound can be shifted over the range of 0 to -1 octaves.
		PL	Description Description Using the expression pedal (FP01/FP02) connected to the CONTROL IN jack, the pitch of the effect sound can be shifted over the range of 0 to +1 octave.
		of	OFF (Off) Turms the MOD module off.





DELAY TIME (Delay Time)

(When DELAY or ECHO is selected as effect type) Sets the delay time in the range from 1 - 37. The actual delay time is the setting value x 10 (ms). (Example: A setting of "15" results in a delay time of 150 ms.)

REVERB TIME (Reverb Time)

(When HALL or ROOM is selected as effect type)

Sets the reverb time in the range from 1 - 10. Higher right-digit setting values result in longer reverb time.

Specifications

Built-in effects Effect modules Banks and patches	max. 8 simultaneous / 33 total max. 7 simultaneous (5 modules + 1 block) 6 banks x 6 patches = 36 patches (rewritable, with memory store capability)
A/D converter D/A converter Sampling frequency Input	16 bit, 64 times oversampling 16 bit, 8 times oversampling 31.25 kHz BASS GUITAR input: standard mono phone jack (rated input level -20 dBm/input impedance 470 kilohms)
Output	Standard stereo phone jack (doubles as line and headphone jack) (maximum output level +5 dBm/output load impedance 10 kilohms or more)
Control input Display Power requirements	For optional FP01 or FP02 / FS01 2-digit 7-segment LED Separately available AC adapter, 9 V DC, 300 mA (center minus plug) (ZOOM AD-0006) Four IEC R6 (size AA) batteries Battery life: approx. 28 hours continuous operation (alkaline batteries) / approx. 8 hours continuous operation (manganese batteries)
Dimensions	145 mm (D) x 125 mm (W) x 40 mm (H) Weight280 g (without batteries)

- $0 \, dBm = 0.775 \, Vrms$
- Design and specifications subject to change without notice.

Usage Precautions

Electrical interference

For safety considerations, the 506 II 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 506 II, as the possibility of interference cannot be ruled out entirely.

With any type of digital control device, the 506 II 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 506 II. 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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Patch List

BANK	PATCH	PATCH NAME	COMMENT	PEDAL
	1	SLAP SOLO	Orthodox slap sound with a touch of flanging.	Volume
_	2	VINTAGE	Vintage 70s UK hard rock sound.	Volume
Α	3	ROCK DRIVE	Exceptionally fat bass sound.	Gain
[DEMO]	4	FRETLESS	Fretless bass sound for lead playing.	Fretless
	5	P-FUNK LEAD	Gritty bass sound for P-funk style bass solo.	Volume
	6	CHORD CHORUS	Pedal-chorus sound for upper-register chord playing.	Chorus2
	1	FUZZY DRIVE	Fuzz tone sound allows 1-octave bend-down with pedal.	Pitch
	2	MILLER OF SLAP	Funky slap solo sound.	Volume
b	3	EMOTIONAL TALK	"Talking lead" sound with pedal-gain controls.	Gain
[DEMO]	4	PHASE CHORUS	Funky edge with phase shift and pedal-chorus sound.	Chorus2
	5	TAURUS	Fat vintage auto-wah bass sound.	Volume
	6	BASS SYNTH	Synth bass mixed with direct sound.	Volume
	1	HIGH TONE AMP	High tone American bass amp sound.	Volume
	2	BILLY'S DRIVE	For fast right hand playing with pedal-pitch effect.	Pitch
С	3	GROUND FUNKY	Modern funk slap bass sound.	Volume
[REAL]	4	SWEET BOTTOM	Clear, mellow bass sound good for picking style.	Volume
	5	PICKED CHORUS	Pedal-chorus sound good for picking style.	Chorus2
	6	RETRO SLAP	Retro slap sound for old funk style.	Volume
	1	ATTACK FUZZ	Pedal-fuzz tone with extra edge and attack.	Gain
	2	UNITE	Wah & octave funk bass sound.	Volume
d	3	PHASE SLAP	Percussive slap creates a dramatic effect.	Volume
[COLOR]	4	U.K.ROCK	Chorus + pedal-wah sound ideal for picking.	Fat wah
	5	NATURAL CLEAN	Practical, basic bass tone.	Volume
	6	OCTAVE CHORUS	Chorus tone with octave effect.	Volume
	1	CYCLONE	Lead synthesizer bass sound.	Gain
	2	DROP	Unique "rain drop" bass sound.	Volume
E	3	DRASTIC STEP	Extreme pedal-step solo sound.	Step
[ACTIVE]	4	JET BEAT	For eighth note play with pedal-flanger jet sound.	Flanger
	5	OCTAVE UP	Direct + one octave up pitch shift sound.	Volume
	6	WILD WAH	Combination of resonant-wah and drive sound.	Volume
	1	T.M.SLAP	Dynamic slap bass sound.	Volume
	2	NUANCE	Picking nuance changes the distortion intensity.	Volume
F	3	CLASSICAL	Fretless bass sound for classical style playing.	Fretless
[LINE]	4	ENHANCED	Clear and enhanced compressed bass sound.	Volume
· ·	5	SOLOIST	Ideal for melodic solos and accompaniment.	Volume
	6	MULTI SYNTH	Synthesizer bass for any playing style.	Volume

It is recommended to set the ZNR (Zoom Noise Reduction) value for each patch to match the bass guitar being used.

Troubleshooting

No power	High level of noise
Refer to "1. Power-on" on page 8.	Is ZOOM AC adapter being used? Be sure to use only adapter for 9 V DC, 300 mA with center minus plug (ZOOM AD-0006).
Patch does not change	Battery life is short
Check whether patch call method is set to pre-select (see page 16).	Are manganese batteries being used? Continuous operation time is 28 hours with alkaline batteries but only 8 hours with manganese batteries. The use of alkaline batteries is recommended.



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

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