

MULTISTOMP MS-60B for Bass

OPERATION MANUAL

Thank you very much for purchasing the ZOOM **MS-60B**. Please read this manual carefully to learn about all the functions of the **MS-60B** so that you will be able to use it fully for a long time. Keep this manual in a convenient place for reference when necessary.

*A printed list of effect parameters is not included with the **MS-60B**. Please download a copy from the ZOOM website. \rightarrow http://www.zoom.co.jp/downloads/ If the MS-60B is not used for 10

hours, it will turn off automatically by default.

If you want the power to stay ON all the time, please see "4 To set the Power Management function" on page 19 and set the value to OFF.

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Terms used in this manual

Patch memory

The ON/OFF status and the parameter settings of each effect are stored as "patch memories". The **MS-60B** can store 50 patch memories.

Effect unit

The **MS-60B** can use between 1 and 4 effects at a time and you can change the number used as you like. Each one of these is called an "effect unit".

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SAFETY PRECAUTIONS

In this manual, symbols are used to highlight warnings and cautions that you must read to prevent accidents. The meanings of these symbols are as follows:



Something that could cause serious injury or death.

Something that could cause injury or damage to the Caution equipment.

Other symbols



Required (mandatory) actions



Prohibited actions

Warning

Operation using an AC adapter

- Use only a ZOOM AD-16 AC adapter with this unit.
- N Do not use do anything that could exceed the ratings of outlets and other electrical wiring equipment.

Operation using batteries



Always close the battery compartment cover when using the unit.

Alterations

Never open the case or attempt to modify the product.

A Precautions

Product handling

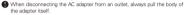
Do not drop, bump or apply excessive force to the unit.

Be careful not to allow foreign objects or liquids to enter the unit.

Operating environment

- O Do not use in extremely high or low temperatures.
- N Do not use near heaters, stoves and other heat sources.
- O Do not use in very high humidity or near splashing water
- N Do not use in places with excessive vibrations.
- N Do not use in places with excessive dust or sand.

AC adapter handling



Battery handling

- Install the batteries with the correct +/- orientation.
- Use a specified battery type. Do not mix new and old batteries or different brands or types at the same time. When not using the unit for an extended period of time, remove the batteries from the unit.



If a battery leak should occur, wipe the battery compartment and the battery terminals carefully to remove all battery residue.

Connecting cables with INPUT and OUTPUT jacks

Always turn the power OFF for all equipment before connecting any cables.

Volume

O Do not use the product at a loud volume for a long time.

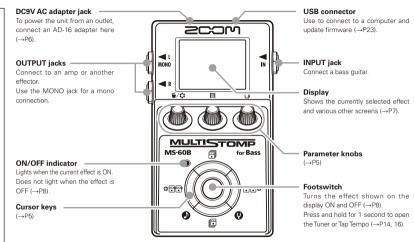
Usage Precautions

Cleaning

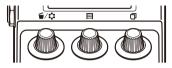
Use a soft cloth to clean the panels of the unit if they become dirty. If necessary, use a damp cloth that has been wrung out well.

Malfunction

If the unit becomes broken or malfunctions, immediately disconnect the AC adapter, turn the power OFF and disconnect other cables. Contact the store where you bought the unit or ZOOM service with the following information: product model, serial number and specific symptoms of failure or malfunction, along with your name, address and telephone number.



Parameter knobs



From the left

Parameter knob 1 [5/ 🗘]

Turn left and right to adjust the parameter. Press to open the MENU where you can remove and rearrange effects and make various settings (\rightarrow P12, 18). You can also check the firmware version (\rightarrow P22).

Parameter knob 2 [目]

Turn left and right to adjust the parameter. Press to open the MEMORY screen where you can select and save patch memories, and change patch memories using the footswitch (\rightarrow P10, 11).

Parameter knob 3 [

Turn left and right to adjust the parameter. Press to change the parameter page (\rightarrow P9).

Cursor kevs



Up and down cursor keys [🗐 / 😇]



Press to change the effect type.

Press and hold for 1 second to select the effect category (→P8).

Press to show the effect to the left or right. Press and hold for 1 second to add a new effect left or right of the current effect (\rightarrow P12).

To turn the power ON

- 1. Lower the amplifier's volume all the way.
- 2. Power the unit with batteries or an adapter.

<When using batteries>

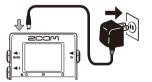
Open the cover on the bottom of the unit and insert batteries in the compartment.



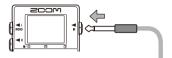
Bottom of the unit

<When using an adapter>

Connect an AD-16 adapter.



3. Plug a guitar cable into the INPUT jack.

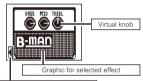


- HINT
 When using batteries, the power will turn on when the cable is connected to the INPUT jack.
- Connect to an amp, then turn the amp on and raise the volume.

Turning the Power ON

2 Display information

The Home Screen shows the current effect

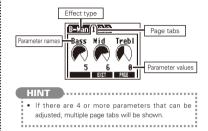


Shows other effects are in this direction.

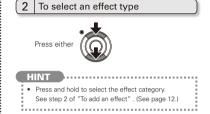
HINT

 The positions of the virtual knobs change with the parameter values.

Edit Screen shows parameter being edited



Confirm that the Home Screen is shown To turn an effect ON and OFF Press NOTE When an effect is ON, the footswitch LED lights. · When an effect is OFF, the footswitch LED is unlit.



3 To adjust parameters





1 To change the page



\sim

The next page opens.



Effect processing limit

The **MS-60B** allows you to combine 4 effects as you like. However, if you combine effect types that require great amounts of processing power (amp models, for example), the available processing



capacity might not be enough. If the processing required for an effect exceeds the available capacity, the effect is bypassed and a "DSP Full!" message appears. This can be avoided by changing 1 or more of the effect types or setting them to THRU.

NOTE

 An effect requires the same amount of processing power whether it is ON or OFF.

HINT

Press and hold the

button for

at least 1 second to immediately set an effect to THRU.

2

Confirm that the Home Screen is shown.

To select a patch memory

When shipped from the factory, the automatic patch memory saving function is active. As soon as a parameter is adjusted this change is automatically saved.

1. Open the MEMORY list.

2. Select a patch memory.



Press

To save a patch memory with a new name

1. Open the MEMORY list.





2. Select the patch memory to be saved with a new name.





 Change the name and select where to save the patch memory.



- Turn to move the cursor :
- Turn to change the character :
- Press to change the type of character/symbol
- Turn to select where to save the patch memory



4. Save the patch memory with the new name.



Changing Patch Memories with the Footswitch

Confirm that the Home Screen is shown

- To add or remove patch memories to a list that the footswitch cycles through
- 1 Open the MEMORY list.



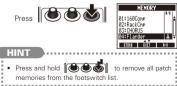
2. Select a patch memory to add to or remove from the footswitch (A/B) list.







3. Add or remove it.



- To cycle through patch memories in 2 the list in order using the footswitch
- Open the MEMORY list.



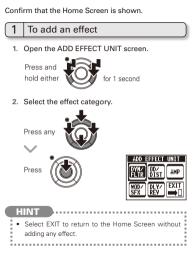
2. Change the patch memory.





- In the example on the right. pressing the footswitch cycles through the patch memories in alphabetical order like this.
 - [04:Flanger] [01:160Comp] [02:BackCmp]
 - [04:Flanger]
 - [01:160Comp] ...





2 To remove an effect

1. Open the MENU.



2. Select DELETE EFFECT UNIT.



3. Select YES.

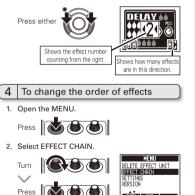




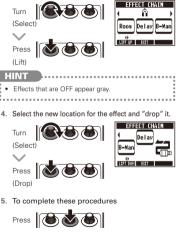
To scroll through the effects shown

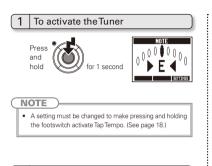
3

When multiple effects are in use, scroll to change the visible one.



3. Select the effect to move and "lift" it.





2 To end tuning



3 To change the tuner's standard pitch

Confirm that the Tuner Screen is open.



4 To select the tuner type

Confirm that the Tuner Screen is open.



CHROMATIC

The chromatic tuner shows the nearest pitch name (semitone) and how far the input sound is from that pitch.

BASS

The nearest string name and how far the sound input is from that pitch are shown.

5 To use a drop tuning

Confirm that the Tuner Screen is open.



NOTE

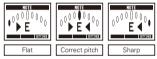
• Drop tuning is not possible when the TYPE is set to CHROMATIC.

6 To tune a bass guitar

Play the open string that you want to tune and tune it.

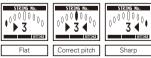
Chromatic tuner

The name of the nearest note and the pitch accuracy are shown.



Bass tuner

The number of the nearest string and the pitch accuracy are shown.



Delay effects and some modulation and filter effects can be synchronized to the tempo. Select an effect that can be synchronized, and set its Time, Rate or other parameter that can be synchronized to a $> \sigma r$ inote value.

The tempo can be set by tapping the footswitch or a knob.

To set the tempo by tapping the footswitch

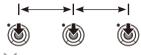
NOTE

- By default, when pressed and held, the footswitch is set to activate the Tuner. To tap the tempo with the footswitch, the setting must be changed so that it activates Tap Tempo when pressed and held. (See page 18.)
- 1. Open the Tap Tempo Screen.





2. Tap the footswitch 2 or more times at the desired tempo.



The ON/OFF indicator flashes in time with the tempo.

3. Complete the setting.



NOTE

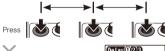
 If you press the footswitch when the effect is ON, the ON/OFF indicator becomes unlit and the effect turns OFF for 1 second.

2 To tap tempo by hand

- 1. Open an effect that can be synchronized to the tempo on the Home Screen. (See page 8, 24.)
- 2. Open the parameter editing screen.



3. Tap the knob 2 or more times at the desired tempo.



The ON/OFF indicator flashes in time with the tempo.



NOTE

· Tempo settings are saved separately for each patch memory.

To change various settings Open the MENU.



2. Select SETTINGS.



These settings are shared by all patch memories.

To set the function activated by pressing and holding the footswitch

Set the function activated by pressing the footswitch continuously for 1 second to TUNER or TAP TEMPO.

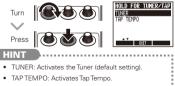
1. Select HOLD FORTUNER/TAP from the SETTINGS menu.



2



2. Set the function activated by pressing and holding the footswitch



To set the tuner mode

 Select BYPASS/MUTE TUNER from the SETTINGS menu.



2. Set the tuner mode



HINT

3

- BYPASS: The effects are bypassed when the tuner is being used.
- MUTE: The output is muted when the tuner is being used.

4 To set the Power Management function

1. Select POWER MANAGEMENT from the SETTINGS menu.





2. Set the Power Management function.

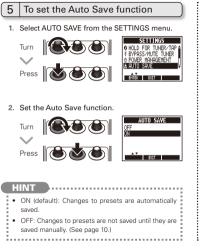




- ON (default): The Power Management function
- is enabled. If left unused for 10 hours, it turns off automatically.
- OFF: The Power Management function is disabled.

Changing Various Settings





6 To select the battery type

1. Select BATTERY TYPE from the SETTINGS menu.



2. Set the type of batteries used.



HINT

- You can confirm the remaining battery charge on the MENU.
- "Low Battery!" appears when the batteries need to be changed.



21

To set the amount of time until the 7 backlight dims

Select LCD BACKLIGHT from the SETTINGS 1 menu.



2. Set the amount of time until the backlight dims.



8 To adjust the display contrast

Select LCD CONTRAST from the SETTINGS 1 menu.





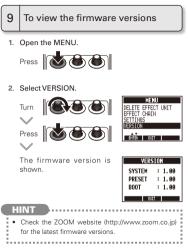
2. Adjust the display contrast.





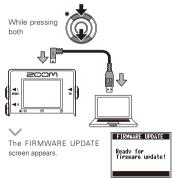






To update the firmware

1. While pressing both the up and down cursor keys, use a USB cable to connect the USB connector to the computer.



2. Launch the firmware update application on your computer, and execute the update.

NOTE

 Do not disconnect the USB cable while the firmware is being updated.

HINT

 See the ZOOM website for instructions about how to use the application.

3. Confirm that the firmware has been updated.

When the **MS-60B** has finished updating, "Complete!" appears on the display.

Disconnect the USB cable.

- HINT Updating the firmware will not erase saved patch memories.

Category	Effect type	Effect explanation	Tempo sync.
	D Comp	This compressor in the style of the MXR Dyna Comp.	
	M Comp	This compressor provides a more natural sound.	
DYN/ FLTR	OptComp	This compressor is in the style of an APHEX Punch FACTORY.	
	160 Comp	This compressor is in the style of the dbx 160A.	
	Limiter	This is a limiter that suppresses signal peaks above a certain reference level.	
	SlowATTCK	This effect slows the attack of each note, resulting in a violin-like performance.	
	ZNR	ZOOM's unique noise reduction cuts noise during pauses in playing without affecting the tone.	

Category	Effect type	Effect explanation	Tempo sync.
DYN/ FLTR	LineSel	Sound input into the LineSel effect is sent directly to the OUTPUT jacks when OFF and to the next effect in order when ON.	
	Ba GEQ	This 7-band graphic equalizer is suitable for the bass frequency range.	
	Ba PEQ	This 2-band parametric equalizer is suitable for the bass frequency range.	
	Splitter	This effect divides the signal into two bands (high/low) and lets you freely adjust the mix ratio of the two bands.	
	Bottom B	Emphasizes the low and high frequencies.	
	Exciter	This exciter is in the style of the BBE Sonic Maximizer.	

Category	Effect type	Effect explanation	Tempo sync.
DYN/ FLTR	BaAutoWah	You can adjust the mix of this bass guitar auto-wah with the original signal.	
	ZTron	This is like a Q-Tron Envelope Filter in LP mode.	
	M-Filter	This envelope filter with Moog MF-101 Low Pass Filter favor can be set in a wide range.	
	A-Filter	This is a resonance filter with a sharp envelope.	
	Ba Cry	This talking modulator is suitable for the bass frequency range.	
	SeqFLTR	The sequence filter has the flavor of a Z.Vex SeekWah.	♪

Category	Effect type	Effect explanation	Tempo sync.
	Ba Boost	This is a simulation of the Xotic EP Booster, which is warm and firm.	
	Bass OD	Simulates the ODB-3 overdrive bass machine from BOSS.	
	Bass Muff	This is a simulation of the Electro- Harmonix Bass Big Muff.	
DD/DIST	Ba Dist 1	This BOSS DS-1 emulation has an added parameter that allows you to adjust the volume balance between the original and distorted sounds.	
	Ba Metal	This BOSS Metal Zone emulation has an added parameter that allows you to adjust the volume balance between the original and distorted sounds.	
	BassDrive	Simulation of the SansAmp BASS DRIVER DI, highly popular among bass players.	

C

Category	Effect type	Effect explanation	Tempo sync.
OD/DIST	D.I Plus	This is a simulation of the MXR Bass D.I.+, which has both clean and distortion channels.	
	Bass BB	This is a simulation of the Xotic Bass BB Preamp, which has a tube-like, thick sound.	
	DI5	This simulates the AVALON DESIGN U5 preamp.	
	Bass Pre	This is a preamp model with a semi-parametric equalizer for the mid-range.	
	AC Bs Pre	This is a preamp model with a graphic equalizer.	

Category	Effect type	Effect explanation	Tempo sync.
AMP	SVT	Simulation of the ultimate rock bass amp, the Ampeg SVT.	
	B-Man	Simulation of the Fender BASSMAN 100.	
	HRT3500	Simulation of the Hartke HA3500 famous for its aluminum cone.	
	acoustic	Simulation of the acoustic 360 well known for its gutsy midrange.	
	Ag Amp	Simulation of the Aguilar DB 750 famous for its powerful sound.	
	Mark B	This simulates the Italian Markbass Little Mark III.	

Category	Effect type	Effect explanation	Tempo sync.
	Tremolo	This effect varies the volume at a regular rate.	Þ
	Phaser	This effect adds a phasing variation to the sound.	Þ
	Ba Chorus	You can cut the low frequencies of this bass chorus effect sound.	
MOD/ SFX	Ba Detune	By mixing a small amount of the pitch-shifted effect sound with the original sound, a natural bass chorus effect is achieved.	
	Ba Ensmbl	This bass chorus ensemble features a sense of three-dimensional movement.	
	BaFlanger	Modeled after the ADA Flanger, this effect has an added parameter that allows you to adjust the volume balance between the original and effected sounds.	þ
	Ba Octave	This effect adds sound one octave below the original sound.	

tegory	Effect type	Effect explanation	Tempo sync.
MOD/ SFX	PitchSHFT	This effect shifts the pitch up or down.	
	Ba Pitch	This pitch shifter was designed specifically for playing single notes in the bass frequency range.	
	Ba Synth	This effect produces the sound of a monophonic (single-note playing) bass synthesizer that detects the pitch of the input signal.	
	StdSyn	ZOOM original bass synthesizer sound.	
	SynTlk	This effect produces a synthesizer sound similar to a talking modulator producing vowels.	
	Z-Syn	This bass synthesizer sound adds analog synth fatness.	
	Defret	Turns the sound from any bass guitar into a fretless bass sound.	

Ca

Category	Effect type	Effect explanation	Tempo sync.
DLY/REV	Delay	This long delay has a maximum length of 4000 ms.	♪
	StompDly	By turning the feedback up on this stomp-style delay, you can make it self-oscillate.	\$
	ModDelay2	You can adjust the depth of this modulation delay effect.	♪
	HD Hall	This is a dense hall reverb.	
	Room	This reverb effect simulates the acoustics of a room.	
	Plate	This simulates a plate reverb.	
	ModReverb	This reverb generates fluctuating echoes.	
	SlapBack	This reverb creates a repeating echo effect.	♪

To execute the All Initialize function

The All Initialize function restores all the factory default settings.

NOTE

- Executing the All Initialize function will restore all the settings of the MS-60B, including its patch memories, to factory defaults. Do not use this function unless you are certain that you want to do this.
- 1. While pressing and holding



turn the power ON.

 \checkmark

The All INITIALIZE screen appears.

All Initialize
Are you sure?
YES : FOOT SW NO : ANY KEY
NU : ANT KET

2. Press the footswitch to execute it.



The unit will not turn ON

• When running on batteries, connect a cable to the INPUT jack to start the unit.

No sound or very low volume

- Check the connections (\rightarrow P6).
- Adjust the levels of the effects being used (→P8).
- Confirm that unit is not in mute mode (\rightarrow P19).

There is a lot of noise

- Check shielded cables for defects.
- Use only a genuine ZOOM AC adapter (→P6).

An effect is not working

 If the effect processing capacity is exceeded, "DSP Full!" appears on the effect graphic. In this case, the effect is bypassed (→P9).

Batteries lose their charge quickly

- Confirm that you are not using manganese batteries. Alkaline batteries should provide about 7 hours of continuous operation.
- Check the battery setting (→P6). Set the type of battery being used to enable the remaining charge to be shown more accurately (→P20).
- Due to the characteristics of the batteries, they might be used more quickly in cold.

Effect types	58 types
Maximum number of simultaneous effects	4
Number of patch memories	50
Sampling frequency	44.1kHz
A/D conversion	24-bit with 128x oversampling
D/A conversion	24-bit with 128x oversampling
Signal processing	32-bit floating point & 32-bit fixed point
Frequency characteristics	20Hz-20kHz (+1dB/–3dB) (10kΩ load)
Display	LCD
Input	Standard monaural phone jack Rated input level: –20dBm, Input impedance 1MΩ
Output	Standard monaural phone jack x 2 Maximum output load impedance of 10 k Ω or more)
Power	AC adapter DC9V (center minus plug), 500 mA (ZOOM AD-16) Batteries About 7 hours of continuous operation using 2 AA alkaline batteries USB
Dimensions	130.3mm(D) x 77.5mm(W) x 58.5mm(H)
USB	Firmware update
Weight	350g

• 0dBm=0.775Vrms

Specifications

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 16 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 to 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.

For EU Countries



Declaration of Conformity: This product complies with the requirements of EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC and ErP Directive 2009/125/EC and RoHS Directive 2011/65/EU



Disposal of Old Electrical & Electronic Equipment

(Applicable in European countries with separate collection systems) This symbol on the product or on its packaging indicates that this product shall not be traated as household waste. Instead if shall be handed over to the applicable collection point for the recycling of electrical and electronic expirate. By ensuing this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human healt, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For mode datalial information about recycling of this product, please contact your local city office, your household waste disposal service on the show here you purchased the product.

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