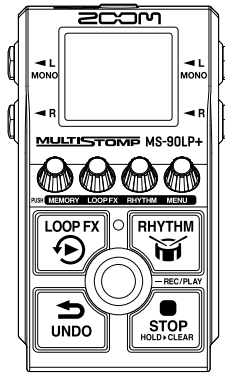


MS-90LP+

MULTISTOMP



Quick Tour

Software and documents related to this product can be viewed on the following website.



zoomcorp.com/help/ms-90lpplus

You must read the Usage and Safety Precautions before use.

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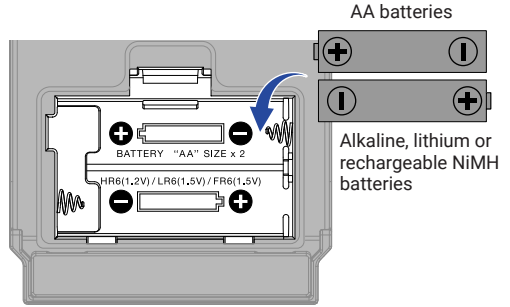
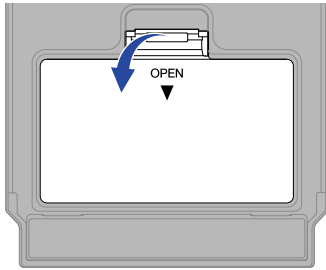
Copying or reprinting this manual in part or in whole without permission is prohibited.

You might need this manual in the future. Always keep it in a place where you can access it easily.

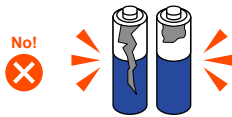
The contents of this manual and the specifications of the product could be changed without notice.

Proper display is not possible on grayscale devices.

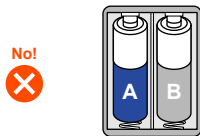
Installing batteries



When using batteries, follow the precautions below to prevent leakage.



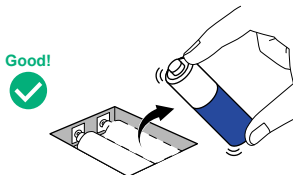
Do not use batteries if their covers are coming off or their exteriors are damaged.



Do not mix batteries of different types or made by different manufacturers.

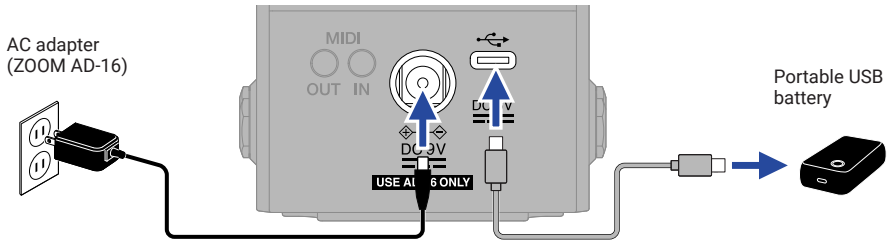


Do not use new and old batteries together.



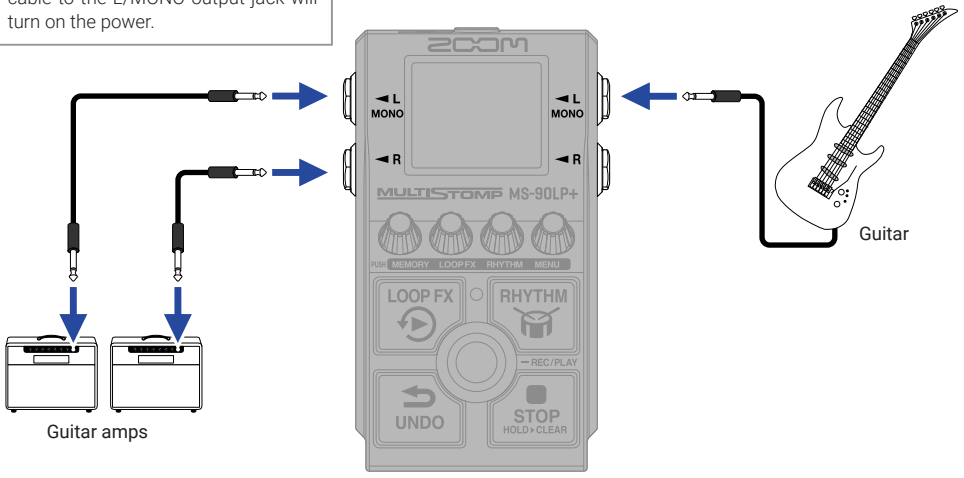
Remove dead batteries as soon as possible.
Remove batteries when not using them for a long time.

The specified AC adapter (ZOOM AD-16) or a commercially-available USB portable battery can be used.



Connecting equipment and turning the power on

When using batteries, connecting a cable to the L/MONO output jack will turn on the power.



Setting the looper

Make looper settings on the Home Screen.

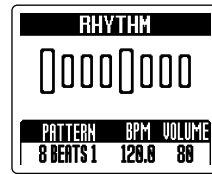
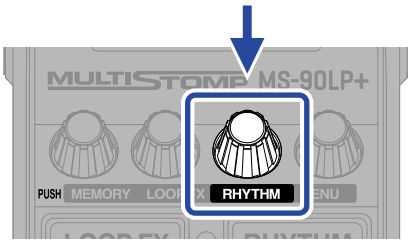


Make adjustments.

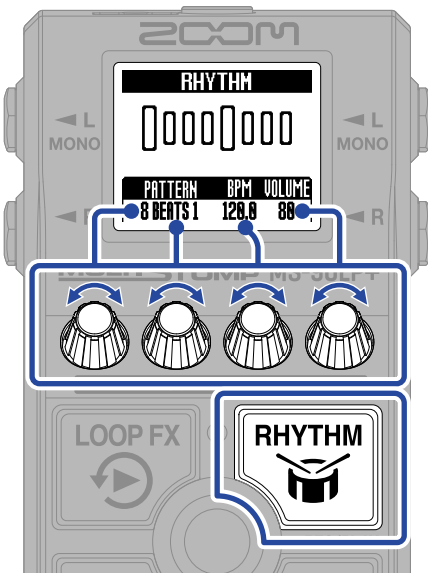
<p>TIME (FREE / \downarrow × 1-64)</p>	<p>The length of recorded phrases can be set. The BPM (tempo) can be set on the RHYTHM Screen.</p>
<p>START (QUICK/FADE)</p>	<p>This sets how loop playback starts.</p>
<p>STOP (QUICK/END/FADE)</p>	<p>This sets how loop playback stops.</p>
<p>LOOP VOL (0-200)</p>	<p>This adjusts the loop playback volume.</p>

Looper settings are also on the MENU Screen. (→ [Functions available in the menu](#))

Using rhythms

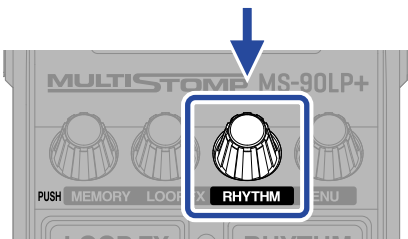


RHYTHM Screen



Adjust the rhythm pattern, tempo and volume.

Start rhythm playback.
Press this again to stop.



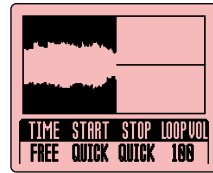
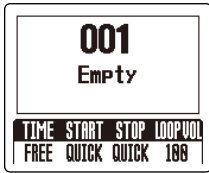
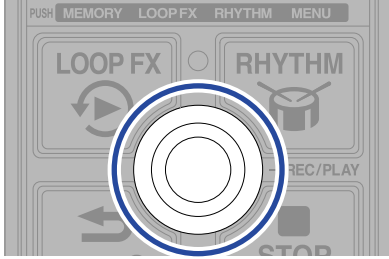
The Home Screen will reopen.

Rhythm settings are also on the MENU Screen. (→ [Functions available in the menu](#))

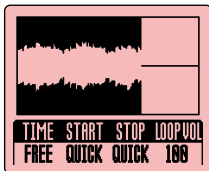
Using the looper

Recording and playback

■ Recording the first phrase



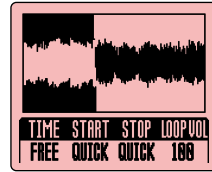
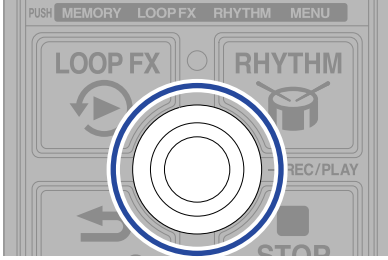
■ Stopping recording



Loop playback will start from the beginning of the phrase.

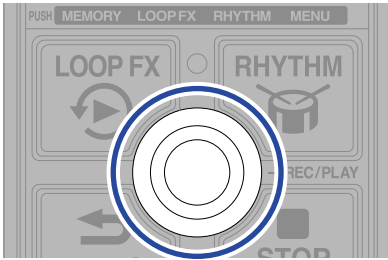
The setting can be changed so that pressing the  enables immediate overdubbing or stops recording without starting new playback. (→ [Functions available in the menu](#))


■ Overdubbing (repeat recording)



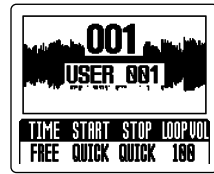
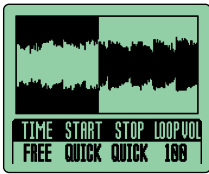
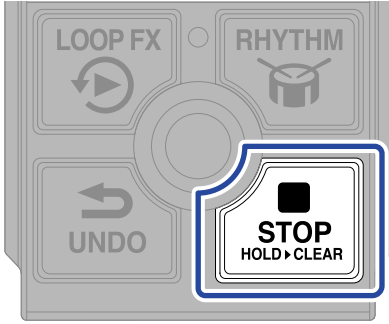
When the end of the phrase is reached, overdubbing will continue from the beginning.

■ Stopping overdubbing

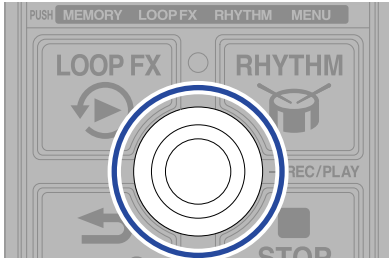


Loop playback will continue.
Pressing  will resume overdubbing.

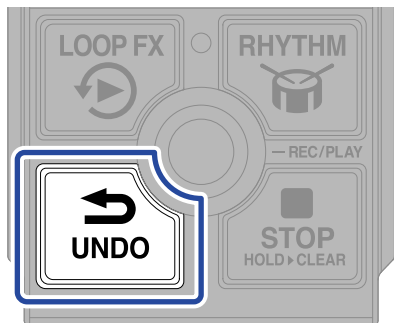
Stopping recording/playback



To start playback when stopped

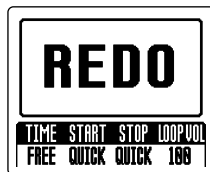
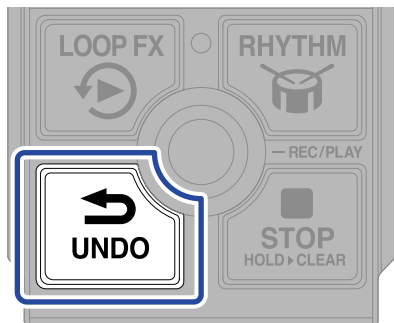


Undoing the last recording



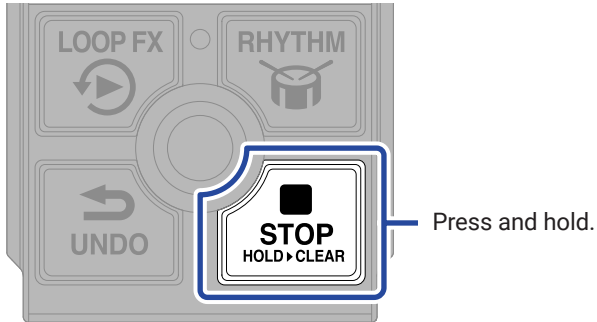
This is possible during playback and when stopped.

Undone recordings can also be restored (REDO).



UNDO and REDO functions can be used on changes in a memory until another memory is opened.

Clearing recorded phrases

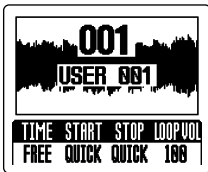
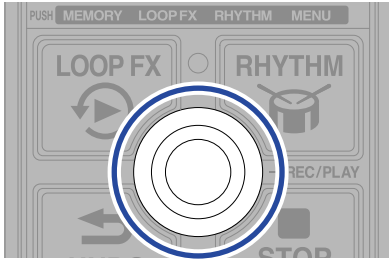


Cleared phrases are erased from the pedal, so this cannot be undone.

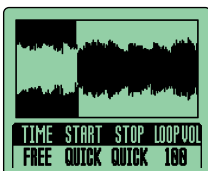
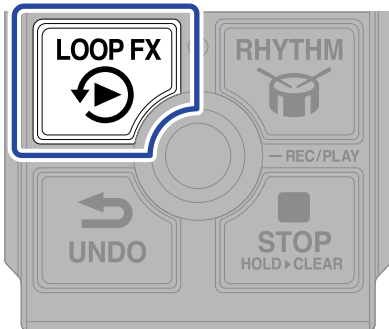
Using loop effects (LOOP FX)

Loop effects can be used during loop playback. These include reverse, half-speed and double-speed playback, as well as repeat playback of a short interval.

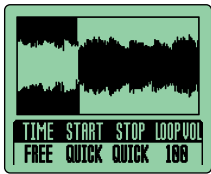
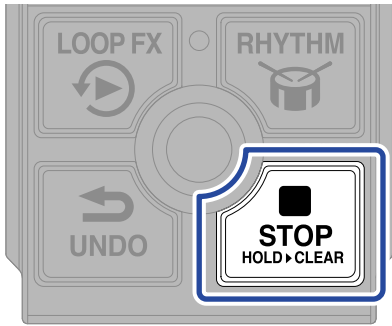
Using a loop effect during playback



This starts playback.

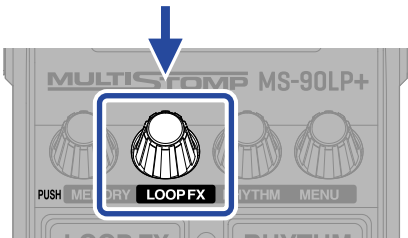


This turns on the effect.
Press this again to turn off the effect.

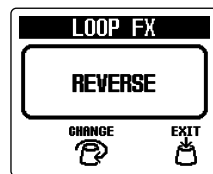


This stops playback.

Setting the loop effect

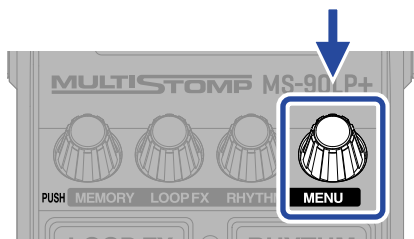


Select.



LOOP FX Screen

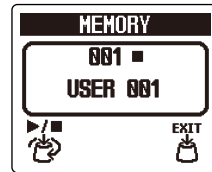
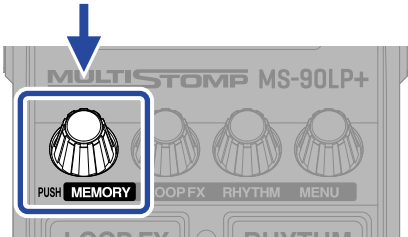
REVERSE	The loop will be played backward.
REVERSE UNLATCH	The loop will be played backward only while  is being pressed.
HALF SPEED	The loop will be played at half speed.
HALF SPEED UNLATCH	The loop will be played at half speed only while  is being pressed.
DOUBLE SPEED	The loop will be played at double speed.
DOUBLE SPEED UNLATCH	The loop will be played at double speed only while  is being pressed.
HOLD (♪ - ♪)	A short interval will be played repeatedly.
HOLD UNLATCH (♪ - ♪)	A short interval will be played repeatedly only while  is being pressed.
TAPE STOP	Playback will slow down until it stops.
ONE-SHOT PLAY	The loop will play once and then stop.
RESTART	The loop will begin playing from the beginning.
TAP TEMPO	The tempo can be set by pressing  repeatedly at the desired speed.



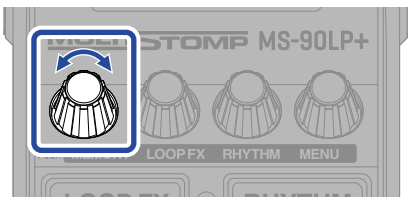
The Home Screen will reopen.

Using memories

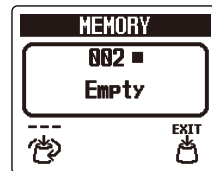
The MS-90LP+ manages recorded phrases in memories. Looper and rhythm settings along with the selected LOOP FX are saved together in memories.





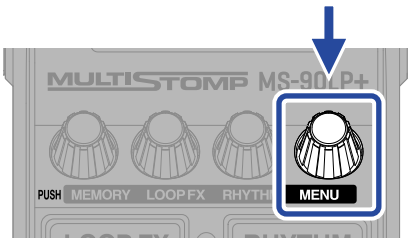
MEMORY Screen



Select.

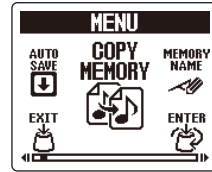
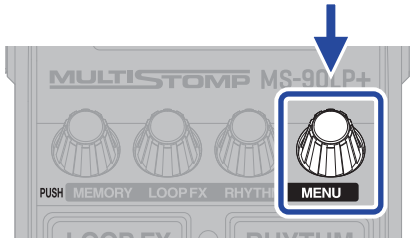


When  is shown for a memory, it already has a phrase saved in it. The phrase can be auditioned by pressing .







Memory 002 can be selected and a new recording started. Returning to memory 001 is also possible.

Functions available in the menu






MENU Screen



■ Memory management

<p>AUTO SAVE</p> 	<p>Set the automatic saving function to "OFF", "SETTING ONLY" or "SETTING & PHRASE".</p>	<p>COPY MEMORY</p> 	<p>Copy the memory. (This only appears when the automatic saving function is set to "SETTING & PHRASE".)</p>
<p>SAVE MEMORY</p> 	<p>Save the memory. (This only appears when the automatic saving function is set to "OFF" or "SETTING ONLY".)</p>	<p>MEMORY NAME</p> 	<p>Set the memory name.</p>

■ Looper settings














<p>AUTO REC</p> 	<p>Set the automatic recording function.</p>	<p>FADE TIME</p> 	<p>Set the fade in/out time.</p>
<p>REC MODE</p> 	<p>The looper can be set to start playback, start overdubbing or stop after the first phrase completes recording.</p>		

■ Rhythm settings

<p>RHYTHM SYNC</p> 	<p>Set whether the looper is synchronized to the rhythm.</p>	<p>PRE-COUNT</p> 	<p>Turn the pre-count on/off.</p>
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■ Hardware settings

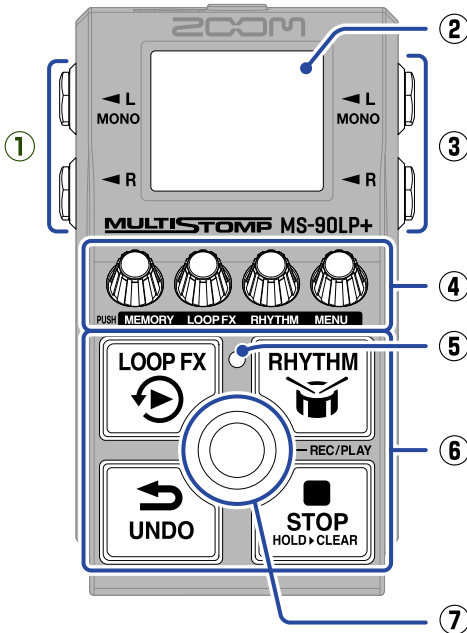
<p>ROUTING</p> 	<p>Set the output routing.</p>	<p>OUTPUT VOLUME</p> 	<p>Adjust the overall output level.</p>
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	Set the channel used to receive MIDI.		Set the channel used to send MIDI.
	Turn on/off the MIDI clock output function.		Turn on/off the MIDI program change output function.
	Set which connectors thru output MIDI data when it is received through the MIDI IN and USB connectors.		Set the type of batteries.
	Adjust the backlight brightness.		Adjust the display contrast.
	Turn ECO MODE on/off.		Transfer files to and from a computer, smartphone or tablet.
	Restore settings to their factory defaults.		Check the firmware version.
	Show a 2D code for checking MS-90LP+ operation procedures.		

See the Operation Manual for detailed information about all the functions.

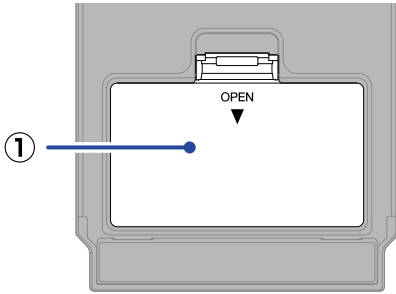
Functions of parts

■ Top



- ① **Output jacks**
Connect an amp or another effect here.
Use MONO for mono connections.
- ② **Display**
This shows the looper status, parameter settings and other information.
- ③ **Input jacks**
Connect a guitar, another instrument or an effect here.
Use MONO for mono connections.
- ④ **Parameter knobs**
Use these to adjust parameters and make various settings.
- ⑤ **Indicator**
The blinking rate shows the tempo.
- ⑥ **Secondary footswitches**
Use these to stop the looper, undo phrase recording, turn on/off the looper playback effect, and start/stop rhythm playback.
- ⑦ **Footswitch**
Use this for looper recording and playback operations.

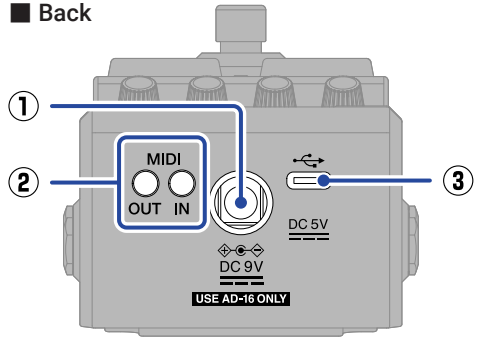
■ Bottom



① Battery cover

Open this when installing or removing AA batteries.

■ Back



① DC 9V AC adapter connector

Connect a dedicated AC adapter (ZOOM AD-16) here.

② MIDI jacks

Use 3.5mm TRS cables to connect MIDI devices.

To connect MIDI devices with 5-pin DIN connectors, use 5-pin DIN-TRS MIDI (Type-A) conversion cables.

By connecting MIDI devices, the MS-90LP+ can be controlled as well as be synchronized with other equipment.

③ USB (Type-C) port

The following operations are possible when connected to a computer, smartphone or tablet.

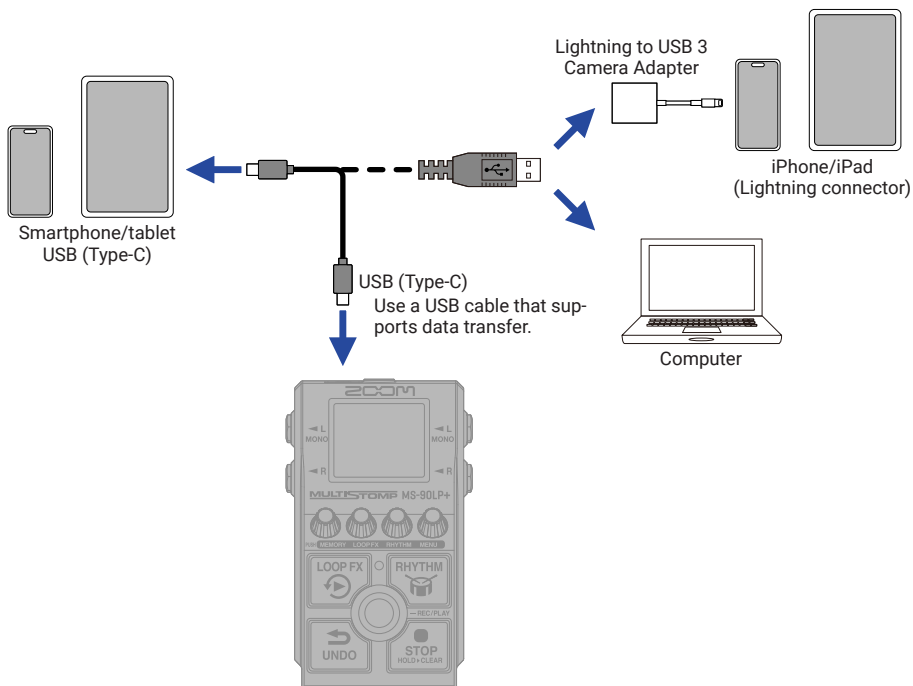
- Back up memories
- Import loop sound sources
- Control the MS-90LP+ using its MIDI functions

This supports operation on USB bus power.

Other functions

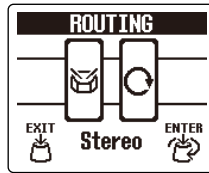
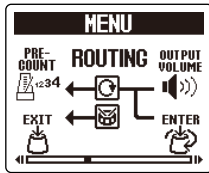
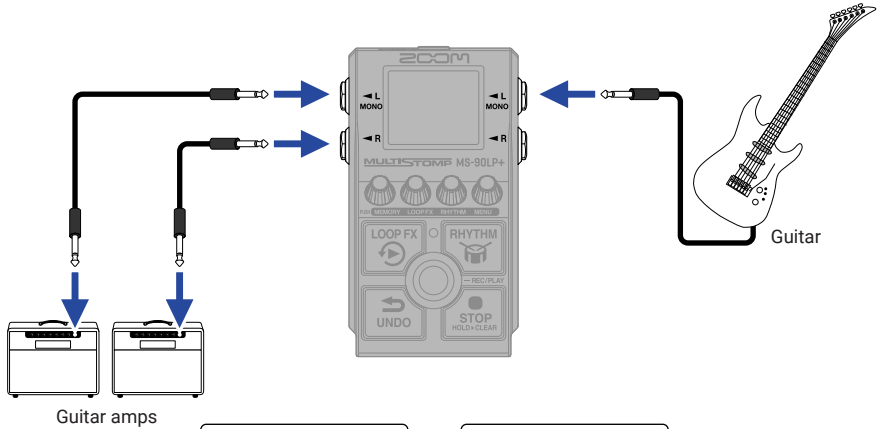
■ Transferring files to and from a computer, smartphone or tablet

By connecting the MS-90LP+ to a computer, smartphone or tablet, memories can be backed up, and loop sound sources can be imported, for example.



■ Setting the output routing (ROUTING)

Output routing can be selected according to use.

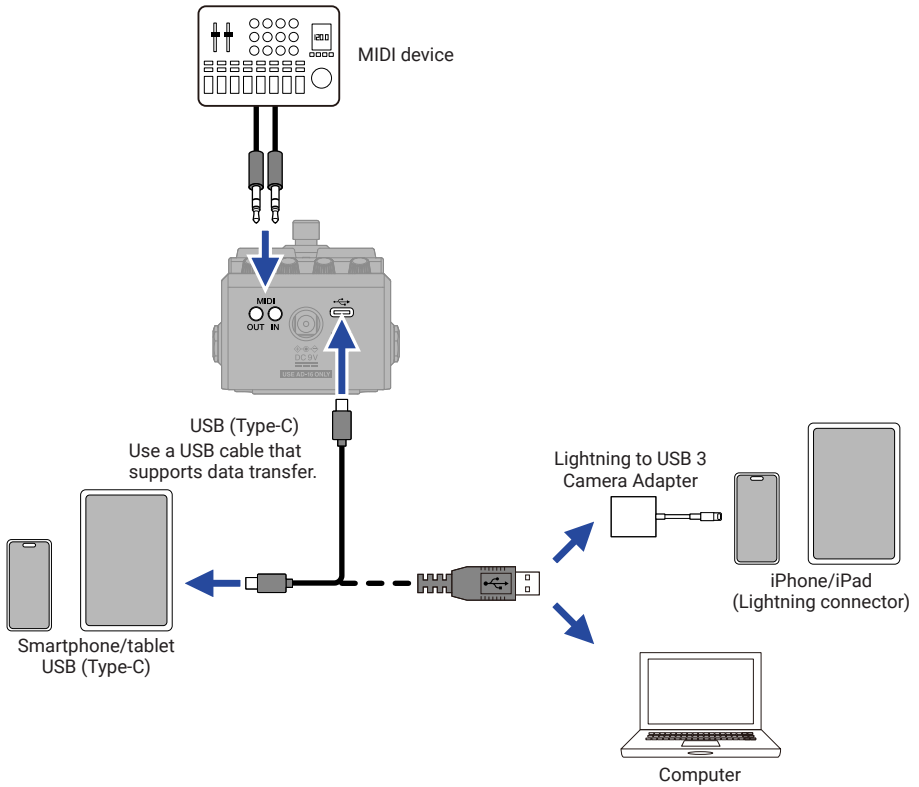


<p style="text-align: center;">Stereo</p>	<p>The instrument, looper and rhythm sounds will be output in stereo.</p>
<p style="text-align: center;">Rch-Rhythm</p>	<p>The rhythm sound will be output independently from the R jack. The instrument and looper sounds will be output from the L (MONO) jack in mono. This is useful when playing back through monitor speakers or another playback device.</p>
<p style="text-align: center;">Rch-Dry</p>	<p>The instrument sound will be output from the R jack. The looper sound will be output independently from the L (MONO) jack. (The rhythm will be output in stereo.) This is useful when you want to separately output the sound of the instrument and the looper to a mixer, for example.</p>

■ MIDI functions

A computer or a MIDI device that is connected to the MS-90LP+ can be used to switch memories and synchronize the tempo.

See the Operation Manual for details.



Troubleshooting

The unit will not power on

- Check the connections.
- If using batteries, connect a cable to the L/MONO output jack.
- If the indicator blinks and it will not start, update the firmware.

There is no sound or output is very quiet

- Check the connections.
- Adjust the looper and rhythm levels.
- Adjust the output volume.

Sounds from the output jacks are strange

- Check the ROUTING setting.

There is a lot of noise

- Confirm that nothing is wrong with the instrument cable.
- Use a genuine AC adapter (ZOOM AD-16).

Batteries lose their charge quickly

- Set the type of battery being used correctly. Due to their characteristics, using nickel metal hydride batteries (especially high-capacity ones) or lithium batteries should enable longer use than alkaline batteries when power consumption is high.
- Set the display backlight to "NORMAL".

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USB Type-C is a trademark of the USB Implementers Forum.

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The illustrations and display screens in this document could differ from the actual product.

The ZOOM logo is rendered in a bold, black, stylized font. The letters are thick and blocky, with a distinctive design where the 'O's are connected to the 'M'. A registered trademark symbol (®) is located to the right of the 'M'.

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