Thank you very much for purchasing the ZOOM B1 on/B1X on.
Please read this manual carefully to learn about all the functions of the B1 on/B1X on 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.

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Usage and Safety Precautions

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:

- **Warning**: Something that could cause serious injury or death.
- **Caution**: Something that could cause injury or damage to the 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.
- ⚠️ Do not use or do anything that could exceed the ratings of outlets and other electrical wiring equipment. Before using the equipment in a foreign country or other region where the electrical voltage differs from that indicated on the AC adapter, always consult with a shop that carries ZOOM products beforehand and use the appropriate AC adapter.

**Operation using batteries**
- ⚠️ Use 4 conventional 1.5-volt AA batteries (alkaline or nickel-metal hydride).
- ⚠️ Read battery warning labels carefully.
- ⚠️ Always close the battery compartment cover when using the unit.

**Alterations**
- ⚠️ Never open the case or attempt to modify the product.

### Caution

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

AC adapter handling
- ⚠️ When disconnecting the AC adapter from an outlet, always pull the body of the adapter itself.
- ⚠️ During lightning storms or when not using the unit for a long time, disconnect the power plug from the AC outlet.

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.
- ⚠️ Always disconnect all connection cables and the AC adapter before moving the unit.

Volume
- ⚠️ Do not use the product at a loud volume for a long time.

### Usage Precautions

Interference with other electrical equipment
In consideration of safety, the B1on/B1Xon has been designed to minimize the emission of electromagnetic radiation from the device and to minimize external electromagnetic interference. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves could result in interference if placed nearby. If this occurs, place the B1on/B1Xon and the other device farther apart. With any type of electronic device that uses digital control, including the B1on/B1Xon, electromagnetic interference could cause malfunction, corrupt or destroy data and result in other unexpected trouble. Always use caution.

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. Never use abrasive cleansers, wax or solvents, including alcohol, benzene and paint thinner.

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.

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Note: All trademarks and registered trademarks mentioned in this manual are for identification purposes only and are not intended to infringe on the copyrights of their respective owners.
Introduction

Five simultaneous effects
You can select and arrange the order of up to five effects as you like and use them simultaneously. Use the cursor keys and view the effects being used on the LCD anytime.

Variety of rhythm patterns
Realistic sounds are provided with updated rhythm patterns and tones.

Looper
The looper can be synchronized with rhythms and record phrases of up to 30 seconds.

Realistic amplifier modeling
We have included realistic amplifier modeling sounds from our B3. We have recreated the low-end thickness, pitch clarity and loudness, which are elements that contribute to a natural playing feel, with incredible accuracy. The models range from famous historical amps to recent popular ones and cover a great variety of bass sounds.

Long battery operation time
20 hours of continuous operation is possible using alkaline batteries (when the LCD backlight is off).

* A printed list of effect parameters is not included with the B1on/B1Xon. Please download a copy from the ZOOM website. → http://www.zoom.co.jp/
Part Names

Top Panel

- Display
- Cursor keys (up, down, left, right)
- Expression pedal (B1X on only)
- HOME key
- Parameter knob
- ENTER key
- RHYTHM/LOOPER key
- MENU key
- Foot switches
**Rear Panel**

**NOTE**
- Signals input through the AUX IN jack are sent directly to the OUTPUT jack without passing through the built-in effects.

![Diagram showing connections and components on the rear panel](image)

- **Pedal switch** (valid only)
- INPUT jack
- AUX IN jack
- OUTPUT jack
- Pedal switch
- Bass guitar
- USB connector
- DC9V AC adapter jack
- **Bass amplifier**
- **Headphones**
- **Portable audio player, etc.**
- **ZOOM AC adapter (AD-16)**
- **Computer**
Turning the Power ON

Lower the amplifier’s volume all the way.

When using batteries
Insert batteries into the battery compartment.

Plug a guitar cable into the INPUT jack.
(Doing so turns the unit on.)

When using an adapter
Connect an AD-16 adapter.

Turn the amplifier's power on and raise its volume.

NOTE
• USB bus power operation is possible.

eco mode
If the eco mode setting is ON and it is left unused for 10 hours, it turns off automatically. (See page 16.)
Display Information

**HOME Screen**

- Bank name
- Patch number
- Status icon (→P18)
- Remaining power display
- Patch settings (→P9)
- Effect
- Patch names
- Add effects (→P12)
- Reorder effects (→P13)
- Delete effects (→P12)

**HINT**
- Press to return to the HOME screen from any other screen.
- Effects that are OFF appear gray.

**Terms Used in This Manual**

**Patch**
The ON/OFF status and the parameter settings of each effect are stored as "patches". Use patches to recall and save effects. The **B1on/B1Xon** can store 100 patches.

**Bank**
A set of 10 patches is called a "bank". The **B1on/B1Xon** has 10 banks labeled A–J.
Using Patches

To change the patch

Use \( \downarrow \) and \( \uparrow \).

HINT
For details about using the preselect function to change directly to patches that are not next in order, see page 19.

Press and hold \( \downarrow \) or \( \uparrow \) to change patches continuously.

To change the bank

Use \( \rightarrow \) and \( \leftarrow \).
To change settings for individual patches

Turn \(\bigcirc\) on the HOME screen.
Select PATCH SETTINGS.

Press \(\bigcirc\).
The PATCH SETTINGS screen appears.

Press \(\bigcirc\).
The patch editing screen appears.

Turn \(\bigcirc\).
Open the page you want.

To adjust the patch level (LVL)

Turn \(\bigcirc\).
Select LEVEL.

Press \(\bigcirc\).
Turn \(\bigcirc\).
Set between 0 and 120.

To change the patch name (NAME)

Turn \(\bigcirc\).
Move the cursor.

Press \(\bigcirc\).
Confirm the character to change.

Turn \(\bigcirc\).
Change the character.

HINT
You can use and \(\bigcirc\) to change the type of character/symbol.
Adjusting Effects

To select an effect

Turn ☐ on the HOME screen.
Select the effect.

Press ☐.

Show the top screen of the selected effect.

HINT
• The virtual knobs are shown with the current parameter values.

To select an effect type

Use ☐ and ☐.

Effect processing capacity

The B1on/B1Xon allows you to combine five 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 this occurs, "PROCESSING LIMIT" will appear, and the effect will be bypassed. You can avoid this by changing some of the effect types.

To turn an effect ON or OFF

Press ☐ or ☐.
To select from a category

Press and hold or .
The categories appear.

Turn .
Select the category.

Press .

NOTE
The includes a PEDAL effects category.

To scroll through the effects shown

When using multiple effects, scroll to switch the effect shown.

Use and .

To adjust parameters

Press .
The editing screen appears.

Turn .
Select the parameter to adjust.

Press .
Confirm the parameter to adjust.

Turn .
Adjust the parameter value.

HINT
When shipped from the factory, the auto save function is active. As soon as a parameter is adjusted this change is automatically saved. (See page 18.)
Adjusting Effects

To add an effect

Turn on the HOME screen.
Select ADD EFFECT.

Press .
Open the category selection screen.

Turn .
Select the category.

Press .
Open the added effect placement screen.

Turn .
Select where to add the effect.

Press .
Add the effect.

Turn to end.
Select EXIT.

Press .

HINT
On the effect screen, you can also press and hold or to add an effect.

To remove an effect

Turn on the HOME screen.
Select DELETE EFFECT.

Press .
Open the effect deletion screen.
To change the order of effects

Turn (○) on the HOME screen.
Select EFFECT CHAIN.

Press (○).
Open the EFFECT CHAIN screen.

Turn (○).
Select the effect to move.

Press (○).
Confirm the effect to move.

Turn (○).
Select the new position for the effect.

Press (○).
Confirm the new position.

Press (○) to end.

Turn (○).
Select the effect to delete.

Press (○).
Open the confirmation screen.

Press (○).
Delete the effect.

Turn (○) to end.
Select EXIT.

Press (○).

## Adjusting the Master Level and Tempo

### To adjust the master level

1. Press \( \text{○} \) on the HOME screen.
2. Open the MENU screen.
3. Turn \( \text{○} \).
4. Select MASTER LVL.
5. Press \( \text{○} \).
6. Turn \( \text{○} \).
7. Set between 0 and 120.
8. Press \( \text{○} \) to end.

### To adjust the master tempo (BPM)

1. Press \( \text{○} \) on the HOME screen.
2. Open the MENU screen.
3. Turn \( \text{○} \).
4. Select BPM.
5. Press \( \text{○} \).
6. Turn \( \text{○} \).
7. Set between 40 and 250.
8. Press \( \text{○} \) to end.

### NOTE
- This tempo setting is shared by all effects, rhythms and the looper.

Press \( \text{○} \) to end.
Saving and Swapping Patches

To save the current patch

Press \(\bigcirc\) on the HOME screen.
Open the MENU screen.

Turn \(\bigcirc\).
Select SAVE.

Press \(\bigcirc\).
Open the patch SAVE screen.

Turn \(\bigcirc\).
Select where to save the patch.

Press \(\bigcirc\).
Open the confirmation screen.

Turn \(\bigcirc\).
Select "YES" to execute.
Select "NO" to cancel.

Press \(\bigcirc\).

To swap the current patch

Press \(\bigcirc\) on the HOME screen.
Open the MENU screen.

Turn \(\bigcirc\).
Select SWAP.

Press \(\bigcirc\).
Open the patch SWAP screen.

Turn \(\bigcirc\).
Select the other patch to swap.

Press \(\bigcirc\).
Open the confirmation screen.

Turn \(\bigcirc\).
Select "YES" to execute.
Select "NO" to cancel.

Press \(\bigcirc\).

NOTE
Patches cannot be swapped if the current patch has not been saved.
Changing Various Settings

Press on the HOME screen.
Open the MENU screen.

Turn .
Select SETTINGS.

Press .
Open the SETTINGS screen.

To select the battery type

Turn on the SETTINGS screen.
Select BATTERY.

Press .

To set the eco mode

Turn on the SETTINGS screen.
Select eco.

Press .

Turn .
Select ON or OFF.

HINT

- ON: eco mode is active. If left unused for 10 hours, the power turns off automatically.
- OFF: eco mode is not active.
To adjust the backlight time

Turn on the SETTINGS screen.
Select LCD LIGHT.

Press .

Turn .
Select OFF, ON, 15sec or 30sec.

To adjust the display contrast

Turn on the SETTINGS screen.
Select LCD CNTRST.

Press .

Turn .
Set between 1 and 13.
Changing Various Settings

To set the auto save function

Turn ( ) on the SETTINGS screen.
Select AUTO SAVE.

Press ( ).

Turn ( ).
Select ON or OFF.

When AUTO SAVE is ON

Patch changes will be saved automatically.

This shows that the patch has been changed.
This shows that the patch has been saved.

When AUTO SAVE is OFF

Patch changes will not be saved until they are saved manually.

If a patch has been changed, a confirmation screen will appear when you try to open another patch.

Turn ( ).
Select "YES" to save.
Select "NO" to not save.

Press ( ).

NOTE

If you select "NO", the patch setting changes will not be saved and the other patch will open.

Turn ( ).
Select where to save the patch.
Press ( ).

Open the confirmation screen.

Turn ( ).
Select "YES" to save.
Select "NO" to cancel.

Press ( ).
The patch changes are saved.

Press ( ).

Turn ( ).
Select ON or OFF.

HINT
• ON: The preselect function is active. You can select the next patch before changing to it.
• OFF: The preselect function is inactive.

When PRESELECT is ON
On the HOME screen, use ( ) and ( ).
Select the next patch.

Press ( ) and ( ) at the same time.
Change to the selected patch.

To use the preselect function
Turn ( ) on the SETTINGS screen.
Select PRESELECT.

NOTE
• If a patch has not been saved, patches cannot be swapped. (See page 15.)

HINT
• You can also save from the MENU screen.
• See "To save the current patch". (See page 15.)
To activate the tuner

On the HOME screen or an effect screen, press \(-\) and \(\) at the same time.
Open the tuner screen.

To tune the bass guitar

You can play each open string and tune it.

**CHROMATIC TUNER**

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

**BASS TUNER**

For Bass Tuner, press \(-\) or \(\) to end.

To change tuner settings

Select the item to set.
Press \(\) .
Confirm the item to set.
Change the setting.
Press \(\) to end.
Setting items

OUTPUT
Select BYPASS or MUTE.

Standard pitch (CALIBRATION)
The standard pitch for middle A can be set from 435-445 Hz.

Tuner types (TYPE)
Select CHROMA (chromatic) or BASS. See the table below for more about the bass tuner.

Drop tuning (FLAT)
Set to $b \times 0, b \times 1, b \times 2$ or $b \times 3$.

NOTE
- Drop tuning is not possible when the TYPE is set to CHROMA.

Tuner types

<table>
<thead>
<tr>
<th>Display</th>
<th>Meaning</th>
<th>String number/Note name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASS</td>
<td>Standard tuning for bass guitars, including those with 5 or 6 strings</td>
<td>LB 4 3 2 1 HC</td>
</tr>
</tbody>
</table>

HINT
- “LB” is the low B string and “HC” is the high C string.
Using Rhythms

To activate a rhythm

On the HOME screen or an effect screen, press .
Open the RHYTHM screen.

HINT

• On the RHYTHM screen, press to switch to the LOOPER screen.

To set the pattern, tempo and volume

On the RHYTHM screen, turn .
Select the item to set.

Press .
Confirm the item to set.

Setting items

PATTERN
Select the rhythm pattern. For more about rhythm patterns. (See page 23.)

Tempo (BPM)
The setting range is 40-250.

NOTE

• This tempo setting is used by every effect, rhythms and the looper.

Volume (LVL)
The setting range is 0-100.

To start rhythm playback

On the RHYTHM screen, press .
To stop the rhythm

On the RHYTHM screen, press 

Rhythm patterns

<table>
<thead>
<tr>
<th>No.</th>
<th>PatternName</th>
<th>TimSig</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GUIDE</td>
<td>4/4</td>
</tr>
<tr>
<td>2</td>
<td>8Beats1</td>
<td>4/4</td>
</tr>
<tr>
<td>3</td>
<td>8Beats2</td>
<td>4/4</td>
</tr>
<tr>
<td>4</td>
<td>8Beats3</td>
<td>4/4</td>
</tr>
<tr>
<td>5</td>
<td>16Beats1</td>
<td>4/4</td>
</tr>
<tr>
<td>6</td>
<td>16Beats2</td>
<td>4/4</td>
</tr>
<tr>
<td>7</td>
<td>16Beats3</td>
<td>4/4</td>
</tr>
<tr>
<td>8</td>
<td>Rock1</td>
<td>4/4</td>
</tr>
<tr>
<td>9</td>
<td>Rock2</td>
<td>4/4</td>
</tr>
<tr>
<td>10</td>
<td>Rock3</td>
<td>4/4</td>
</tr>
<tr>
<td>11</td>
<td>ROCKABLY</td>
<td>4/4</td>
</tr>
<tr>
<td>12</td>
<td>R'n'R</td>
<td>4/4</td>
</tr>
<tr>
<td>13</td>
<td>HardRock</td>
<td>4/4</td>
</tr>
<tr>
<td>14</td>
<td>HeavyMtl</td>
<td>4/4</td>
</tr>
<tr>
<td>15</td>
<td>MtlCore</td>
<td>4/4</td>
</tr>
<tr>
<td>16</td>
<td>Punk</td>
<td>4/4</td>
</tr>
<tr>
<td>17</td>
<td>FastPunk</td>
<td>4/4</td>
</tr>
<tr>
<td>18</td>
<td>Emo</td>
<td>4/4</td>
</tr>
<tr>
<td>19</td>
<td>TomTomBt</td>
<td>4/4</td>
</tr>
<tr>
<td>20</td>
<td>Funk1</td>
<td>4/4</td>
</tr>
<tr>
<td>21</td>
<td>Funk2</td>
<td>4/4</td>
</tr>
<tr>
<td>22</td>
<td>FunkRock</td>
<td>4/4</td>
</tr>
<tr>
<td>23</td>
<td>JazzFunk</td>
<td>4/4</td>
</tr>
<tr>
<td>24</td>
<td>R&amp;B1</td>
<td>4/4</td>
</tr>
<tr>
<td>25</td>
<td>R&amp;B2</td>
<td>4/4</td>
</tr>
<tr>
<td>26</td>
<td>70s Soul</td>
<td>4/4</td>
</tr>
<tr>
<td>27</td>
<td>90s Soul</td>
<td>4/4</td>
</tr>
<tr>
<td>28</td>
<td>Motown</td>
<td>4/4</td>
</tr>
<tr>
<td>29</td>
<td>HipHop</td>
<td>4/4</td>
</tr>
<tr>
<td>30</td>
<td>Disco</td>
<td>4/4</td>
</tr>
<tr>
<td>31</td>
<td>Pop</td>
<td>4/4</td>
</tr>
<tr>
<td>32</td>
<td>PopRock</td>
<td>4/4</td>
</tr>
<tr>
<td>33</td>
<td>IndiePop</td>
<td>4/4</td>
</tr>
<tr>
<td>34</td>
<td>EuroPop</td>
<td>4/4</td>
</tr>
<tr>
<td>35</td>
<td>NewWave</td>
<td>4/4</td>
</tr>
<tr>
<td>36</td>
<td>OneDrop</td>
<td>4/4</td>
</tr>
<tr>
<td>37</td>
<td>Steppers</td>
<td>4/4</td>
</tr>
<tr>
<td>38</td>
<td>Rockers</td>
<td>4/4</td>
</tr>
<tr>
<td>39</td>
<td>Ska</td>
<td>4/4</td>
</tr>
<tr>
<td>40</td>
<td>2nd Line</td>
<td>4/4</td>
</tr>
<tr>
<td>41</td>
<td>Country</td>
<td>4/4</td>
</tr>
<tr>
<td>42</td>
<td>Shuffle1</td>
<td>4/4</td>
</tr>
<tr>
<td>43</td>
<td>Shuffle2</td>
<td>4/4</td>
</tr>
<tr>
<td>44</td>
<td>Blues1</td>
<td>4/4</td>
</tr>
<tr>
<td>45</td>
<td>Blues2</td>
<td>4/4</td>
</tr>
<tr>
<td>46</td>
<td>Jazz1</td>
<td>4/4</td>
</tr>
<tr>
<td>47</td>
<td>Jazz2</td>
<td>4/4</td>
</tr>
<tr>
<td>48</td>
<td>Fusion</td>
<td>4/4</td>
</tr>
<tr>
<td>49</td>
<td>Swing1</td>
<td>4/4</td>
</tr>
<tr>
<td>50</td>
<td>Swing2</td>
<td>4/4</td>
</tr>
<tr>
<td>51</td>
<td>Bossa1</td>
<td>4/4</td>
</tr>
<tr>
<td>52</td>
<td>Bossa2</td>
<td>4/4</td>
</tr>
<tr>
<td>53</td>
<td>Samba1</td>
<td>4/4</td>
</tr>
<tr>
<td>54</td>
<td>Samba2</td>
<td>4/4</td>
</tr>
<tr>
<td>55</td>
<td>Breaks1</td>
<td>4/4</td>
</tr>
<tr>
<td>56</td>
<td>Breaks2</td>
<td>4/4</td>
</tr>
<tr>
<td>57</td>
<td>Breaks3</td>
<td>4/4</td>
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<tr>
<td>58</td>
<td>12/8 Grv</td>
<td>12/8</td>
</tr>
<tr>
<td>59</td>
<td>Waltz</td>
<td>3/4</td>
</tr>
<tr>
<td>60</td>
<td>JzWaltz1</td>
<td>3/4</td>
</tr>
<tr>
<td>61</td>
<td>JzWaltz2</td>
<td>3/4</td>
</tr>
<tr>
<td>62</td>
<td>CtWaltz1</td>
<td>3/4</td>
</tr>
<tr>
<td>63</td>
<td>CtWaltz2</td>
<td>3/4</td>
</tr>
<tr>
<td>64</td>
<td>5/4 Grv</td>
<td>5/4</td>
</tr>
<tr>
<td>65</td>
<td>Metro3</td>
<td>3/4</td>
</tr>
<tr>
<td>66</td>
<td>Metro4</td>
<td>4/4</td>
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<tr>
<td>67</td>
<td>Metro5</td>
<td>5/4</td>
</tr>
<tr>
<td>68</td>
<td>Metro</td>
<td></td>
</tr>
</tbody>
</table>

HINT

- On the RHYTHM screen, you can press \( \text{STOP} \) to return to the HOME screen while the rhythm continues playing.
Using the Looper

To activate the looper

On the HOME screen or an effect screen, press .

Open the LOOPER screen.

HINT

- On the LOOPER screen, press to switch to the RHYTHM screen.

To set the recording time, tempo and volume

On the LOOPER screen, turn .

Select the item to set.

Press .

Confirm the item to set.

Setting items

Recording time (TIME)

Set to MANUAL or in a range from J × 1 to J × 64.

NOTE

- The looper can record up to 30 seconds.
- If the setting (number of quarter notes) would not fall in this range, it will automatically be adjusted.
- Changing the recording time will erase the currently recorded loop.

Tempo (BPM)

The setting range is 40-250.

NOTE

- Changing the tempo will erase the currently recorded loop.
- This tempo setting is used by every effect, rhythms and the looper.

Volume (LVL)

The setting range is 0-100.
To record and play back a phrase

On the LOOPER screen, press \[REC\].
Start recording.

After the recording time elapses, playback will start.

\[ \text{LOOPER} \]
\[ \text{REC} \]
\[ \text{TIME} \quad \text{BPM} \quad \text{LYL} \]
\[ \text{Manual} \\ 90 \quad 100 \]

When TIME is set to MANUAL

Loop playback start when you press \[PLAY\] or the maximum recording time (30 seconds) is reached.

\[ \text{LOOPER} \]
\[ \text{PLAY} \]
\[ \text{TIME} \quad \text{BPM} \quad \text{LYL} \]
\[ \text{Manual} \\ 90 \quad 100 \]

NOTE

- During rhythm playback, recording will start after a pre-count.

To overdub a recorded loop

During loop playback, press \[OVERDUB\].
Press \[STOP\] to end.

\[ \text{LOOPER} \]
\[ \text{OVERDUB} \]

To stop loop playback

On the LOOPER screen, press \[STOP\].

\[ \text{LOOPER} \]
\[ \text{STOPPED} \]

To erase the loop

Stop loop playback and press and hold \[CLEAR\] on the LOOPER screen.

\[ \text{LOOPER} \]
\[ \text{CLEAR} \]

HINT

- On the LOOPER screen, you can press \[HOME\] to return to the HOME screen while recording a loop or playing it back.
Using the Expression Pedal (B1X on only)

If a PEDAL category effect has been added, settings will be made automatically to allow control of expression pedal parameters.

**To change the pedal settings**

1. Turn on the HOME screen.
2. Select PATCH SETTINGS.
3. Press .
4. Open the PATCH SETTINGS screen.
5. Press .
6. Open the patch editing screen.
7. Turn .
8. Open the PEDAL setting screen.

**To set the controlled parameter and range**

1. Turn on the PEDAL setting screen.
2. Select the item to set.
3. Press  .
4. Confirm the item to set.
5. Turn .
6. Change the setting.

**Setting items**

- **Controlled parameter**
  - Minimum value (pedal up)
  - This differs according to the effects type.
  - Maximum value (pedal down)
  - This differs according to the effects type.
HINT

- NO ASSIGN: No function is assigned to the expression pedal.
- AUTO ASSIGN: When using a PEDAL category effect, a parameter will be assigned to the pedal automatically.

If multiple PEDAL category effects are used, their corresponding parameters will all be assigned to the expression pedal.
- INPUT VOL: Controls the input level.
- OUTPUT VOL: Controls the output level. (Does not affect the volume of the rhythm or looper.)
- The pedal switch can be used to turn ON/OFF effects that are assigned to the expression pedal. (The ON/OFF setting made by the pedal switch is not saved.)

NOTE

- If "Error!" appears, restart calibration from the beginning.

To adjust the torque

Insert the hex key into the torque adjustment screw on the side of the pedal.

Turn it clockwise to tighten the pedal, and turn it counterclockwise to loosen the pedal.

To calibrate its sensitivity

While pressing ( ), turn the unit on. (See page 6.)

Operate the pedal as the instructions show and press each time.

"Complete!" appears when calibration is finished.

NOTE

- Be careful when loosening the screw. Loosening it too much could cause it to come off inside the unit.
Updating the Firmware

Download the latest firmware from the ZOOM website.

http://www.zoom.co.jp/

To view the firmware versions

Press  on the HOME screen.
Open the MENU screen.

Turn .
Select VERSION.

Press .
The firmware version is shown.

Press  to end.

To update the firmware

Confirm that the power is off.

While pressing both and , connect the unit to a computer using a USB cable.
The FIRMWARE UPDATE screen appears.

Launch the firmware update application on your computer, and execute the update.
When it finishes updating, “Complete!” appears on the display.
Disconnect the USB cable.

**HINT**
- Updating the firmware will not erase saved patches.

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

To restore the B1on/B1Xon to its factory default settings

While pressing ( ), turn the power ON. (See page 6.)
The All INITIALIZE screen appears.

Turn ( ).
Select “YES” to execute.
Select “NO” to cancel.

Press ( ).

**NOTE**
- Be careful because this will restore all defaults to their factory settings. Be sure that you want to do this.
Troubleshooting

The unit will not turn ON

- If operating on battery power, connect a cable to the INPUT jack.

No sound or very low volume

- Check the connections (→P5).
- Adjust the levels of the effects being used (→P11).
- Adjust the master level (→P14).
- When adjusting the volume with an expression pedal, make sure that a suitable volume setting has been set with the pedal.
- Confirm that the TUNER OUTPUT is not set to "MUTE" (→P20).

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, "PROCESSING LIMIT" appears on the effect graphic. In this case, the effect is bypassed (→P10).

Batteries lose their charge quickly

- Confirm that you are not using manganese batteries. Alkaline batteries should provide about 20 hours of continuous operation.
- Check the battery setting. Set the type of battery being used to enable the remaining charge to be shown more accurately (→P16).
- Due to the characteristics of the batteries, they might be used more quickly in cold.

The expression pedal is not working well

- Check the expression pedal settings (→P26).
- Adjust the expression pedal (→P27).
## Specifications

<table>
<thead>
<tr>
<th>Effect types</th>
<th><strong>B1on</strong> 75 types</th>
<th><strong>B1Xon</strong> 80 types</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of simultaneous effects</strong></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>Number of user banks/patches</strong></td>
<td>10 patches x 10 banks</td>
<td></td>
</tr>
<tr>
<td><strong>Sampling frequency</strong></td>
<td>44.1kHz</td>
<td></td>
</tr>
<tr>
<td><strong>A/D conversion</strong></td>
<td>24-bit with 128x oversampling</td>
<td></td>
</tr>
<tr>
<td><strong>D/A conversion</strong></td>
<td>24-bit with 128x oversampling</td>
<td></td>
</tr>
<tr>
<td><strong>Signal processing</strong></td>
<td>32-bit floating point &amp; 32-bit fixed point</td>
<td></td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td><strong>Input</strong></td>
<td><strong>INPUT</strong> Standard monaural phone jack</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated input level: -20dBm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Input impedance (Line): 470k Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>AUX IN</strong> Stereo mini jack</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated input level: -10dBm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Input impedance (Line): 1k Ω</td>
<td></td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td><strong>OUTPUT</strong> Standard stereo phone jack</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum output level:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Line + 2dBm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(with output load impedance of 10 kΩ or more)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Headphones 17mW + 17mW (into 32 Ω load)</td>
<td></td>
</tr>
<tr>
<td><strong>S/N (equivalent input noise)</strong></td>
<td>119dB</td>
<td></td>
</tr>
<tr>
<td><strong>Noise floor (residual noise)</strong></td>
<td>-97dBm</td>
<td></td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>AC adapter DC9V (center minus plug), 500 mA (ZOOM AD-16)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20 hours of continuous operation using 4 alkaline AA batteries (with LCD backlight off)</td>
<td></td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>Firmware update</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td><strong>B1on</strong> 154.8mm(D) x 146.0mm(W) x 43.0mm (H)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>B1Xon</strong> 154.8mm(D) x 237.0mm(W) x 50.0mm (H)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td><strong>B1on</strong> 380g (Not including batteries)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>B1Xon</strong> 640g (Not including batteries)</td>
<td></td>
</tr>
</tbody>
</table>

*0dBm = 0.775Vrms*
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 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
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 treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.
Manufacturer names and product names mentioned in this patch list are trademarks or registered trademarks of their respective owners and do not indicate any affiliation with ZOOM CORPORATION. All product and artist names are intended only to illustrate sonic characteristics that were used as reference in the development of this product.

### Professional Settings

**Demo**

- **Stu Hamm**

### Demo BANK / PATCHCATEGORY

<table>
<thead>
<tr>
<th>BANK / PATCHCATEGORY</th>
<th>PATCH NAME</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B</strong></td>
<td><strong>Clean Distortion Filter/Synth</strong></td>
<td>This warm distorted bass sound is perfect for UK rock style music.</td>
</tr>
<tr>
<td></td>
<td><strong>Legendary Tone</strong></td>
<td>Starting with a clean solid-state sound, this patch adds an octave below. Great for soloing or laying down phat bass lines.</td>
</tr>
<tr>
<td></td>
<td><strong>UK Groove</strong></td>
<td>Smooth and strong fingerpicking is the inspiration for this patch.</td>
</tr>
<tr>
<td></td>
<td><strong>UK Groove</strong></td>
<td>This is a sound in the style of Chris Squire from Yes. It re-creates the rapidly sawing tremolo sound that he used in “Starship Trooper.”</td>
</tr>
<tr>
<td></td>
<td><strong>UK Groove</strong></td>
<td>A tribute to Anthony Jackson on the O'Jays hit song, “For the Love of Money.”</td>
</tr>
<tr>
<td></td>
<td><strong>UK Groove</strong></td>
<td>ModReverb gives this setting a nice modulation. GREAT for ballads.</td>
</tr>
<tr>
<td></td>
<td><strong>UK Groove</strong></td>
<td>This distortion sound keeps vocals distinct and is designed for quick playing and bassists who have few hard edges.</td>
</tr>
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<td></td>
<td><strong>UK Groove</strong></td>
<td>This is a sound in the style of Jack Bruce sounds like the dirtiest of a hard-linebacker pickup.</td>
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<td></td>
<td><strong>UK Groove</strong></td>
<td>This setting uses Ag Amp and SlowATTCK to create a sound with a nice slow attack. This is perfect for playing chords.</td>
</tr>
<tr>
<td></td>
<td><strong>UK Groove</strong></td>
<td>This delay sound uses the G-Krueger and Delay effects to repeat the original sound with little alteration. This is a perfect delay sound for playing solos with a mysterious feeling.</td>
</tr>
<tr>
<td></td>
<td><strong>UK Groove</strong></td>
<td>This setting allows the melody to be heard effectively when using only slap pull-offs. 160 Comp and Phaser FULL sound to grab attention.</td>
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<td></td>
<td><strong>UK Groove</strong></td>
<td>This setting uses the acoustic and Ba Chorus effects for a clear modulation sound. This synth bass sound uses StdSyn and is good for playing solos.</td>
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<td><strong>UK Groove</strong></td>
<td>This gospel bass sound uses the SMR effect. This clean sound for fast playing uses HRT3500 and is good for recording.</td>
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<td><strong>UK Groove</strong></td>
<td>This is a bass sound with a quick attack. Since the middle frequencies are also brought out significantly, the outlines of the tones are not lost, making this patch great for fast playing.</td>
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<td></td>
<td><strong>UK Groove</strong></td>
<td>This is a sound that uses the Ba Octave and Delay effects to repeat the original sound with slight alteration. This is a perfect delay sound for playing solos with a mysterious feeling.</td>
</tr>
<tr>
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<td><strong>UK Groove</strong></td>
<td>This setting uses 160 Comp and SMR.</td>
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<td>BANK / PATCHCATEGORY</td>
<td>COMMENT</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Clean Distortion Filter/Synth</td>
<td></td>
<td>This warm distorted bass sound is perfect for UK rock style music. Cut through even a loud orchestra with this rock slap setting. This envelope filter sounds uses M-Filter and DuoPhase. Great for playing solo or laying down phat bass lines.</td>
</tr>
<tr>
<td>Legendary Tone</td>
<td></td>
<td>This delay sound uses the G-Krueger and Delay effects to repeat the original sound with little alteration. This is a perfect delay sound for playing solos with a mysterious feeling.</td>
</tr>
<tr>
<td>Cut &amp; WAH</td>
<td></td>
<td>This gospel bass sound uses the SMR effect. This clean sound for fast playing uses HRT3500 and is good for recording.</td>
</tr>
<tr>
<td>Solid State</td>
<td></td>
<td>This is a sound in the style of Chris Squire from Yes. It re-creates the rapidly sawing tremolo sound that he used in “Starship Trooper.”</td>
</tr>
<tr>
<td>Basso</td>
<td></td>
<td>This is a sound in the style of Brian Head Welch from Pendulum. This delay sound uses the AC Bs Pre with bold equalization. A slightly compressed rock tone on the verge of distortion and a bit of distortion. Lowering the tone on the bass itself might add interest.</td>
</tr>
<tr>
<td>SpaceFunk</td>
<td></td>
<td>A combination of classic rock bass heads and cabinets give you the power and tone to hold down the bottom no matter how loud you are rocking.</td>
</tr>
<tr>
<td>AttackBass</td>
<td></td>
<td>Starting with a clean solid-state sound, this patch adds an octave below. Great for playing or laying down clean bass lines.</td>
</tr>
<tr>
<td>Softly</td>
<td></td>
<td>This is a warm, clean-sounding patch that is perfect for playing with a pick.</td>
</tr>
<tr>
<td>Fretless</td>
<td></td>
<td>With a smooth attack like a fingerless bass, this is great for playing melodies.</td>
</tr>
<tr>
<td>SolidState</td>
<td></td>
<td>This single note distortion is perfect for playing with a pick.</td>
</tr>
<tr>
<td>Legendary Tone</td>
<td></td>
<td>A simple, retro-sounding patch that is perfect for playing with a pick.</td>
</tr>
<tr>
<td>Britpop</td>
<td></td>
<td>A great patch for playing rock bass heads and cabinets. You can add more distortion for a heavier sound.</td>
</tr>
<tr>
<td>SpaceMan</td>
<td></td>
<td>The style of Romantic Pop, this patch will let you create long and complex soundscapes.</td>
</tr>
<tr>
<td>NW AUTO</td>
<td></td>
<td>This auto-wah sound, which uses AutoWah, is great for playing funky bass lines.</td>
</tr>
<tr>
<td>NW Fuzz</td>
<td></td>
<td>This is an extremely distorted fuzz sound and uses BassMan.</td>
</tr>
<tr>
<td>NW Octave</td>
<td></td>
<td>This uses the Fuzz and Octave to make the sound thicker and more aggressive.</td>
</tr>
<tr>
<td>NW Swell</td>
<td></td>
<td>This uses the Fuzz and Octave to make the sound thicker and more aggressive.</td>
</tr>
<tr>
<td>NW DLY</td>
<td></td>
<td>This delay sound uses the G-Krueger and Delay effects to repeat the original sound with little alteration. This is a perfect delay sound for playing solos with a mysterious feeling.</td>
</tr>
<tr>
<td>NW OBL</td>
<td></td>
<td>This setting uses Ba Octave to increase the thickness of the low frequencies.</td>
</tr>
<tr>
<td>NW Chorus</td>
<td></td>
<td>This uses the acoustic and Ba Chorus effects for a clear modulation sound.</td>
</tr>
<tr>
<td>NW Syn</td>
<td></td>
<td>This synth bass sound uses SynthLib and is good for fuzzy phrases.</td>
</tr>
<tr>
<td>SynthLib</td>
<td></td>
<td>This setting is based on the sound of line recording.</td>
</tr>
<tr>
<td>FatMan</td>
<td></td>
<td>The fleshy sound of distortion in the image behind this setting.</td>
</tr>
<tr>
<td>TC CLEAN</td>
<td></td>
<td>This clean sound uses a compressor setting that is perfect for playing with multiple fingers, including three-finger, four-finger, and sweep.</td>
</tr>
<tr>
<td>The Gospel</td>
<td></td>
<td>The smooth and strong distortion is the inspiration for this patch.</td>
</tr>
<tr>
<td>REO CLEAN</td>
<td></td>
<td>This clean sound for fast playing uses HRT3500 and is good for recording.</td>
</tr>
<tr>
<td>OverEasy</td>
<td></td>
<td>This is a clean sound with a pick attack. Since the midrange frequencies are also brought out significantly, the outlines of the notes are not lost, making this patch great for fast playing.</td>
</tr>
<tr>
<td>SlowM</td>
<td></td>
<td>Smooth and strong distortion is the inspiration for this patch.</td>
</tr>
<tr>
<td>Tread</td>
<td></td>
<td>A slightly compressed rock tone on the verge of distortion and a bit of distortion. Lowering the tone on the bass itself might add interest.</td>
</tr>
<tr>
<td>ReggaeBass</td>
<td></td>
<td>With its low range brought to the front, this bold sound is perfect for dub reggae.</td>
</tr>
<tr>
<td>Cappo Hook</td>
<td></td>
<td>A tribute to James Jamerson. SVT and Ba Boost with heavy low end like Mr. Jamerson.</td>
</tr>
<tr>
<td>REC VEG</td>
<td></td>
<td>Using G-Krueger, this is a clean sound for recording technical solos.</td>
</tr>
<tr>
<td>BASI 80</td>
<td></td>
<td>A classic sound for playing rock bass heads and cabinets. You can add more distortion for a heavier sound.</td>
</tr>
<tr>
<td>CHORD</td>
<td></td>
<td>Great for playing chords, this sound maintains the distinctiveness of the notes.</td>
</tr>
<tr>
<td>HARMONICS</td>
<td></td>
<td>This setting evokes the sound of Jazz Pianist and is ideal for playing chords using natural harmonics.</td>
</tr>
<tr>
<td>CUT / RHYTHM</td>
<td></td>
<td>This funky setting creates a guitar-like backing sound with the addition of pedal wash for rhythm playing.</td>
</tr>
<tr>
<td>TAPPING</td>
<td></td>
<td>Using this floating sound to maximize the chord feeling and crisp staccato of tapping.</td>
</tr>
<tr>
<td>CLEAN SOLO</td>
<td></td>
<td>While being a clean sound, this lyrical patch also suits bold fast play.</td>
</tr>
<tr>
<td>Orpheus</td>
<td></td>
<td>Was thinking of Victor Wooten’s ‘Show of Hands’ record.</td>
</tr>
</tbody>
</table>

**Legend:**
- **Demo:** Demo patches.
- **Stu Hamm:** Stu Hamm patches.
- **Nate Watts:** Nate Watts patches.
- **Tweak Freak:** Tweak Freak patches.
- **Professional Settings:** Professional settings.
- **New Watts:** New Watts patches.
- **Cappo Hook:** Cappo Hook patches.
- **REC VEG:** REC VEG patches.
- **BASI 80:** BASI 80 patches.
- **CHORD:** CHORD patches.
- **HARMONICS:** HARMONICS patches.
- **CUT / RHYTHM:** CUT / RHYTHM patches.
- **TAPPING:** TAPPING patches.
- **CLEAN SOLO:** CLEAN SOLO patches.
- **Orpheus:** Orpheus patches.