Thank you for selecting the ZOOM 505 (hereafter simply called the "505").

Please take the time to read this manual carefully so as to get the most out of your 505 and to ensure optimum performance and reliability. Retain this manual for future reference.

ZOOM CORPORATION
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Printed in Japan 505-5000

1 Major Features

- 24 individual built-in effects provide maximum flexibility.
- Up to 9 effects can be used simultaneously in any combination.
- Memory capacity for up to 24 user-programmable patches.
- Integrated auto-chromatic guitar tuner for simple and precise tuning anywhere.
- Optional foot controller FP01 can be used for pedal wah or pedal pitch, and volume control is also possible.
- Optional foot switch FS01 can be used for bank switching, resulting in enhanced playability.
- Dual power supply principle allows the unit to be powered from an alkaline battery or an AC adapter.
- New DSP (digital signal processor) ZFx-2 developed by Zoom produces high-quality effects from an amazingly compact package.

2 Safety Precautions

USAGE AND SAFETY PRECAUTIONS

The symbols used in this manual are used to highlight warnings and cautions for your safety 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 device could result.

Caution

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 device could result.

Please observe the following safety tips and precautions to ensure the safe use of the 505.

About power

Warning

- Never use the 505 in potentially explosive environments, such as in the presence of flammable gas and the like. Use of the 505 in these environments may result in fire.

CAUTION

- 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 battery.

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.

Battery operation

- Use only a lithium battery (SLB05). Using any battery other than specified may damage the unit.

Batteries

- Use a soft, dry cloth to clean the 505. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these can dull the finish or damage the surface.

Connecting cables and input and output jacks

- Avoid using your 505 in environments where it will be exposed to:
  - Humidity or moisture
  - Excessive dust or dirt

Environment

- The 505 is a precision electronic device. Except for the first articles, do not subject it to sudden changes in temperature or humidity. Doing so may damage the unit and affect performance.

Handling

- To clean the 505, use a soft, dry cloth. Never use solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

Filtrations

- To prevent static electricity or to avoid touching the unit with your fingers, always grasp the AC adapter itself and do not pull at the cable.

Usage precautions

Electrical interference

For safety considerations, the 505 has been designed to provide maximum protection against the emission of electromagnetic radiation from inside the device, and from external interference. However, equal protection cannot always be ensured. Whenever the 505 is not to be used, it should not be placed near the 505, as the possibility of interference cannot be ruled out entirely.

Whereas the type of digital control device, the 505 included, electromagnetic radiation can cause malfunctioning, and can corrupt or destroy data. Since this is an ever-present danger, thorough care should be taken to minimize this risk at all times.

Cables and the AC adapter

- Use only a lithium battery (SLB05). Using any battery other than specified may damage the unit.

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Cables and the AC adapter

- Use only a lithium battery (SLB05). Using any battery other than specified may damage the unit.
The 24 patches can be selected easily by pressing the patch pedals. The right patch pedal switches to the next patch and the left patch pedal switches to the previous patch.

In the initial condition, the 505 is set up so that the patch pedals select patches continuously, but you can also set up the unit so that patches are switched only within a certain bank [see the section “Patch Switching (Application: Bank Hold”)]. Bank switching is performed with the VALUE + / - keys.

If for example the currently selected patch is patch 2 of bank A, and you want to switch to patch 3 of bank C, you would need to press the UP pedal nine times. Instead, you can press the VALUE + key twice and then the UP pedal once.

If the optional FS01 is connected to the CONTROL IN jack on the rear panel, the foot switch can be used as a bank UP pedal. This allows full foot control, which is highly convenient during a performance.

In the Bypass mode, the effects of the 505 are temporarily turned off, so that the original sound of the instrument only is heard. In this mode, the auto-chromatic tuning function is also active. It is also possible to activate muting, to prevent the tuning sound from being sent to the output.

Bypass and mute condition
Pressing both patch pedals simultaneously activates the Bypass or Mute mode.

For bypass mode: Press and immediately release the patch pedals.
For mute mode: Press patch pedals for at least 1 second.

To cancel the bypass or mute condition, simply press one of the patch pedals. The unit then reverts to the previously selected patch.

Tuning function
When the 505 is in the Bypass or Mute mode, the tuning function is activated automatically. Pick an open string to be tuned. The closest note is shown on the display.

When the tuning function is active, the parameter cursor LEDs serve as tuning meter, designed to enhance tuning precision when making fine adjustments.
3 What Are Banks and Patches?

- **PATCH**
  A combination of several effects, each with individual parameter settings is called a “patch”. The 505 comes with 24 preset patches which can be changed (edited) by the user.

- **BANK**
  The 505 calls up patches in sets of four, called a “bank”.

4 PATCH LIST

The 505 has memory capacity for 24 patches. At the factory, these are programmed with recommended settings. The user can freely change the contents of any patch, and it is also possible to restore the factory settings.

<table>
<thead>
<tr>
<th>BANK</th>
<th>PATCH</th>
<th>PATCH NAME</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>Super Strat</td>
<td>Modulation with stereo feedback delay</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Lead Delay</td>
<td>Effect delay</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Metal</td>
<td>Hard pan effect with stereo feedback delay</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Mrs. Effect</td>
<td>Effect delay with stereo feedback delay</td>
</tr>
<tr>
<td>b</td>
<td>5</td>
<td>Bass Slit</td>
<td>Input stage with filtered audio</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Bass Fuzz</td>
<td>Input stage with filtered audio</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>Bass Clave</td>
<td>Input stage with filtered audio</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>Bass Solo</td>
<td>Input stage with filtered audio</td>
</tr>
<tr>
<td>c</td>
<td>9</td>
<td>Single Reverb</td>
<td>Reverb with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>Multi Reverb</td>
<td>Reverb with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>Echo Reverb</td>
<td>Reverb with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>Multiple Reverb</td>
<td>Reverb with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>TST (Boost)</td>
<td>Boost with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>TST (Mute)</td>
<td>Mute with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>Shout Reverb</td>
<td>Reverb with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>Shout Clave</td>
<td>Reverb with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>Shout Solo</td>
<td>Reverb with a long feedback delay</td>
</tr>
<tr>
<td>d</td>
<td>18</td>
<td>Single Delay</td>
<td>Delay with stereo feedback delay</td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>Multiple Delay</td>
<td>Delay with stereo feedback delay</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>TST (Boost)</td>
<td>Boost with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>TST (Mute)</td>
<td>Mute with a long feedback delay</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>Shout Delay</td>
<td>Delay with stereo feedback delay</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>Shout Clave</td>
<td>Delay with stereo feedback delay</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>Shout Solo</td>
<td>Delay with stereo feedback delay</td>
</tr>
</tbody>
</table>

5 Effect Connections

As shown in the illustration below, the 505 can be thought of containing seven “effect modules” which are internally connected. In most effect modules, only one effect may be active at any given time, but the COMP and MOD modules can use two effects simultaneously. Therefore the 505 can act like a total of nine single effect devices.

6 Controls and Functions

Top Panel

- **TUNER indicator**
  In the Standby + Tuner mode, this indicator shows that the tuner is active, and it serves as a gauge for fine-tuning your instrument.
  - **Battery empty warning:** When the battery is exhausted, this indicator begins to flash.

- **STORE key**
  Serves to store and execute the store function for patches.
  - **Direct Load function:** When you press and hold down for at least 1 second in the Play mode, the Direct Load function is turned on or off.

- **EDIT key**
  This key serves to toggle between the Play mode (where effects are active) and Edit mode (where the user can freely change patch settings). The Edit mode is also used to select effect parameters.
  - When the key is pressed while a Delay/Reverb effect parameter is selected, the unit switches back to Play mode.
  - **Bank Hold function:** When the key is held down for at least 1 second in Play mode, the Bank Hold function is turned on or off.

Rear Panel

- **INPUT jack**
  Serve as connection of the guitar.
  - When the unit is powered from the battery, this jack also functions as on/off switch. Plugging a shielded cable into the jack turns the 505 on.
  - When not using the unit, the cable should be disconnected to prevent battery drain.

- **DC IN jack**
  Serve as connection of an AC adapter (Zoom AD-0000) which delivers 9V DC, 300mA with a “center minus” plug configuration.
  - When the AC adapter is connected to this jack, the 505 is turned on.

- **OUTPUT jack**
  The output of the 505 passes through this jack.
  - You can connect either a single channel amplifier, a stereo mini stereo cable, or a pair of stereo headphones. If the volume level is low when using headphones, turn on the line level/mute switch to mute unimportant undulations.

- **CONTROL IN jack**
  When the optional expression pedal FS01 is connected to this jack, it can serve as volume pedal to be used for volume and pedal delay (Controls). When the optional foot switch FS01 is connected, it can serve for bank switching.
11 Editing Patches

The 505 comes with 24 predefined patches that have been programmed at the factory. However, the 505 is equally as useful in creating new and unique patches, because you have the capability to use a variety of different parameter combinations in new and unique ways. To discover these new possibilities, we recommend that you try out the editing function, which lets you create your own patches. The mode in which patches are edited is called the Edit mode.

To switch from normal Play mode to Edit mode, briefly press the EDIT key. Do not keep the EDIT key depressed, because if the key is kept for 1 second, the Bank Hold mode will be activated.

1. While still in Play mode, select the patch you wish to edit.
2. Press the EDIT key to activate the Edit mode.
3. Use the VALUE + / - keys to select the Edit parameter you wish to change.
4. Use the EDIT key to toggle the parameter.
5. Use the VALUE + / - keys to adjust the parameter.
6. Press the VALUE + / - keys to turn ON and OFF.

12 Effect Parameters

**COMP module**
- **Compressor**: The input signal from the guitar is processed using the compressor function to achieve a uniform level.
- **Setting range**: C (8) - C1 (12)
- **Value range**: Higher value results in greater signal compression.
- **Auto Wah**: With this effect, the wah-wah function of the guitar is controlled in an amplified manner based on the dynamics of the input signal.
- **Setting range**: A1 (8) → A5 (12)
- **Value range**: Higher value results in more pronounced wah effect.
- **Pendal Wah**: With this effect, the wah-wah pedal corresponds to an optional expression pedal FPP4 connected to the CONTROL IN jack.
- **Setting range**: P1 (8) → P9 (12)
- **Value range**: Higher value results in greater wah effect.

**DIST module**
- **Distortion**: A total of eight effect types are provided, each with a different distortion characteristic, and the input signal is processed to sound similar to an electric guitar amplifier.
- **Setting range**: 13 (8) → 1 (12)
- **Value range**: Higher value results in greater distortion.

**ZNR/AMP block**
- **ZNR module**: Determines the settings for Zoom Noise Reduction.
- **Setting range**: 0 (8) → 0 (12)
- **Value range**: Lower value reduces noise and results in a cleaner signal.

**EQ module**
- **Band EQ**: Allows boosting or cutting of sound frequencies.
- **Setting range**: B1 (8) → B1 (12)
- **Value range**: Higher value results in greater boost or cut.

**MOD module**
- **Chorus**: Simple 2-phase chorus which produces a doubling effect.
- **Setting range**: C1 (8) → C1 (12)
- **Value range**: Higher value results in greater doubling effect.

**DLY/REV module**
- **Delay**: Conventional digital delay with a delay time of up to 300 ms.
- **Setting range**: D1 (8) → D1 (12)
- **Value range**: Higher value results in longer delay time.

**PATCH Level**
- **Level Setting**: Allows the setting of the level of individual patches. This setting is stored for each patch like the effect parameters.
- **Setting range**: 1 (8) → 3 (12)
- **Value range**: Higher value results in greater level.

**HINT**
- Editing Patches
- Selecting parameters to change
- Effect module on/off switching
- Effect parameter setting
- Volume control with FP01
- Master level adjustment

**HINT**
- In “Taking effect off”, parameters that are edited are selected by repeatedly pressing the EDIT key, but you can also set the parameters directly.
- Each effect module in the 505 can be considered as a single compact effect device. Adjusting parameters is therefore equivalent to selecting the type of effect device or turning the knobs on an effect device. What is called a patch corresponds to a combination of effect devices and the parameters that are set on them in various ways and for various purposes.
- As you will know, if you have used several individual effect devices in a performance before, your effect devices will be switched on at all the time. Depending on the number of the setup or the effect devices, it may be declined and off at different combinations. The same applies to the 505. The on/off switching and combination of effect devices are important aspects in creating a certain sound.

Except for the distortion gain (13) and phase shift type (9)

### 1 Selecting parameters to change

- As described in “Taking effect off”, parameters that are edited are selected by repeatedly pressing the EDIT key, but you can also set the parameters directly.

### 2 Effect module on/off switching

- Each effect module in the 505 can be considered as a single compact effect device. Adjusting parameters is therefore equivalent to selecting the type of effect device or turning the knobs on an effect device. What is called a patch corresponds to a combination of effect devices and the parameters that are set on them in various ways and for various purposes.
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### 3 Effect parameter setting

- For an explanation of the various parameters, please refer to the section “Effect Parameters.”
- When the EDIT key is pressed while the 5th parameter of the chorus effect LED flashes, the Edit mode is canceled and the unit returns to the Play mode.

### 4 Volume control with FP01

- When the optional expression pedal FP01 is connected to the CONTROL IN jack, it can also be used for adjusting the output volume of the 505. However, if the COMP module parameters are set to a range which activates pedal power or if the MOD module pitch parameter is set to a pitch level (24) on this setting and the pedal controls the effect.
- In other cases, the module controls the volume between the EQ module and the MOD module. As opposed to a volume control pedal connected to the input of the 505, the feedback can be altered without affecting the noise improvement of reverb and delay effects.

### 5 Master level adjustment

- The 505 also has a level on the output level, separately from individual patch levels.
- The master level can be adjusted in Play mode, as follows.
- Keep both VALUE keys depressed for at least 5 seconds.
- The current master level is displayed on the display and the button for the next second.
- While the level is displayed, you can use the VALUE + / - keys to change it. The setting range is 0 → 30. At “30”, the level is identical to the individual patch level.
- The value level setting is not stored by the unit. After the power has been turned off, the master level must be set again.
13 Storing Patches

If you have edited (altered) a patch and turn the 505 off without storing the patch, the patch will revert to its old setting. To store an edited patch, use the following simple procedure.

Storing can be carried out in Play mode and Edit mode. After you have edited the patch, press the STORE key. If the unit is currently in Play mode, release the key before 1 second has elapsed, otherwise the Direct Load function will be activated.

The display starts to flash. This condition is called the store standby condition. If you wish, you can abandon the store procedure at this point by pressing the EDIT key. If you press the STORE key once more, the contents of the patch are updated.

You can also change the patch number before storing, so that the edited patch will be stored in a different number. In this case, the original patch that was used as a starting point for editing will not be changed.

14 Replacing the Battery

If the tuning indicator flashes while the unit is being powered from the battery, the battery is exhausted and should be replaced as described below.

Since the 505 has fairly high rated power consumption, use only a 6LR61 9 V (alkaline) battery. Using another kind of battery will result in shorter operation.

1. Turn the 505 upside down and open the cover of the battery compartment. (Push the catch to unlock the cover, then lift it up.)
2. Remove the battery from the compartment and disconnect the battery cable. (Group the terminal strip and do not pull at the cable.)
3. Connect the battery cable to the new battery, taking care to observe correct polarity (+/-). Then insert the battery into the battery compartment.
4. Close the battery compartment cover, taking care not to pinch the cable. (Make sure that the cover is properly locked.)

15 Returning Patches to Factory Settings

The 505 comes with 24 predefined patches that have been programmed at the factory. Also after you have edited and stored your own patches, you can return to the factory default settings at any time. This process is called "recalling". Returning all 24 patches to the original contents and resetting the Bank Hold and Direct Load functions is called "all initialize".

The recall mode is separate from the Play mode and Edit mode. You cannot switch directly to recall mode from these modes. The recall mode can only be activated by turning the unit on in a special way, as described below.

1. Turn the unit off by disconnecting the AC adapter or the guitar input cable.
2. Keep the STORE key depressed and turn the unit on.
3. The indication "AL" flashes on the display.
4. To perform "all initialize", press the STORE key once more in this condition. The flashing rate increases and the initialization procedure is carried out. When it is completed, the unit automatically enters the Play mode.
5. When wishing to recall only a particular patch, select the patch number in step 3, using the same procedure as for normal patch selection.
6. When the desired patch has been selected, press the STORE key. The flashing rate increases and the contents of the selected patch are recalled.
7. Recalling of individual patches can be carried out continuously. When you wish to terminate the process, press the EDIT key. The unit then returns to the Play mode. Turning the unit off also terminates the recall condition.

16 Specifications

<table>
<thead>
<tr>
<th>Effects</th>
<th>Maximum number of simultaneous effects: 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 effect types: Compressor, Limiter, Auto Wah, Pedal Wah, Acoustic, Rhythm, Overdrive, Distortion, Blues, Fuzz, Lead, Metal, 48Band Equalizer, Phase, Chorus, Harmonizing, Drop, Pitch Shift, Delay, Hall, Room, Amp Simulator, ZNR</td>
<td></td>
</tr>
<tr>
<td>Effect modules</td>
<td>Maximum number of simultaneous modules: 7 (5 modules + 1 block)</td>
</tr>
<tr>
<td>Banks and patches</td>
<td>6 banks x 4 patches = 24 patches (edit + store possible)</td>
</tr>
<tr>
<td>Analog/digital conversion</td>
<td>18 bit, 128 times oversampling</td>
</tr>
<tr>
<td>Digital/analog conversion</td>
<td>16 bit, linear</td>
</tr>
<tr>
<td>Sampling frequency</td>
<td>31.25 kHz</td>
</tr>
<tr>
<td>Input</td>
<td>Guitar input (standard monaural phone jack)</td>
</tr>
<tr>
<td></td>
<td>Ranged input level: -20 dBm</td>
</tr>
<tr>
<td></td>
<td>Input impedance: 470 kilohms</td>
</tr>
<tr>
<td>Output</td>
<td>Combinational line/phone output (standard stereo phone jack)</td>
</tr>
<tr>
<td></td>
<td>Max. output level: +6 dBm</td>
</tr>
<tr>
<td></td>
<td>Output load impedance: 10 kilohms or more</td>
</tr>
<tr>
<td>Control input</td>
<td>For optional FP01 or FS01</td>
</tr>
<tr>
<td>Display indicator</td>
<td>2-digit, 7-segment LED</td>
</tr>
<tr>
<td></td>
<td>Tuning indicator, parameter cursor indicator</td>
</tr>
<tr>
<td>Power requirements</td>
<td>Optional AC adapter: 9 V DC, 300 mA (Zoom AD-0006)</td>
</tr>
<tr>
<td></td>
<td>Battery: 6LR61 9 V (alkaline) battery x 1</td>
</tr>
<tr>
<td>Battery life: approx. 4 h continuous operation</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>147 (W) x 157 (H) x 48 (D) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>480 g</td>
</tr>
</tbody>
</table>

* 0 dBm = 0.775 Vrms |
* Design and specifications subject to change without notice.
In the factory default condition, the patch pedal switches all patches, regardless of the bank divisions. This kind of patch switching is called the Bank Hold off condition.

The Bank Hold function limits switching to the four patches within a bank. When the function is activated, the patch pedals switch only between the patches in the current bank. To activate the function, keep the EDIT key depressed for at least 1 second in the Play mode. The BANK HOLD indicator on the display lights up. To turn the function off again, perform the same step (press the EDIT key for at least 1 second). The BANK HOLD indicator on the display goes out.

Bank switching can be performed using the VALUE + / - keys or the optional foot switch FS01 connected to the CONTROL IN jack on the rear panel.

In the default condition, the 505 is set up in such a way that pressing a patch pedal immediately switches the patch and alters the output sound. This is called Direct Load ON. This switching principle is most convenient when the desired patches are adjacent or close to each other. However, when wanting to switch to a patch that is further away, it may be desirable not to activate the sound of the other patches in between.

When this is desired, turn the Direct Load function off as follows. When Direct Load has been turned off, switching banks and patches has no effect until the user confirms the selection.

To turn Direct Load on or off, keep the STORE key depressed for at least 1 second. The same procedure serves to turn it on.

Example: switching from patch 1 to patch 4

Confirm patch switching completed