# SIM1
## SOUND IMPRINTING

# XT - B
## THE BASS PROFILER

Labels on the diagram:

- on/off
- out
- balanced out
- in
- 9/12 V
- SIM1
- XT - B
- interactive display
- Jazz 64cs
- 01 Mid/Neck
- led
- USB MIDI
- BYPASS
- true bypass
- down
- up
- Learn & Play (a)
- Add Source (b)
- Menu Set: PreAmp, Ir Cab, OD, Reverb (c)

## LEARNING PROCEDURES & EFFECTS MENU

### a. Learn & Play - automatic pickups matching
(hold bypass + down)

Set up your Source Bass by recording Neck, Mid and Bridge position pickups. The system will automatically match the Target Bass pickups with your Source Bass pickups.

### b. Add Source - profile one pickup at a time
(hold down + up)

Make the profile and store one pickup at a time as Source Bass. The matching Source/Target pickups is not automatic, it requires the use of the Editor for PC/Mac. Through the Editor you can turn the new Source Bass into a Target Bass, using the "Show in Target" button in "My Guitars".

### c. Menu Settings – set cabinets/effects
(hold bypass + down + up)

Surf the Effects Menu. Select and set each effect you wish to add to the current bank. It includes: Source/Target Bass Selectin, IR Cabinets, Overdrive, Reverb, Tone Ctrl, Master Gain.
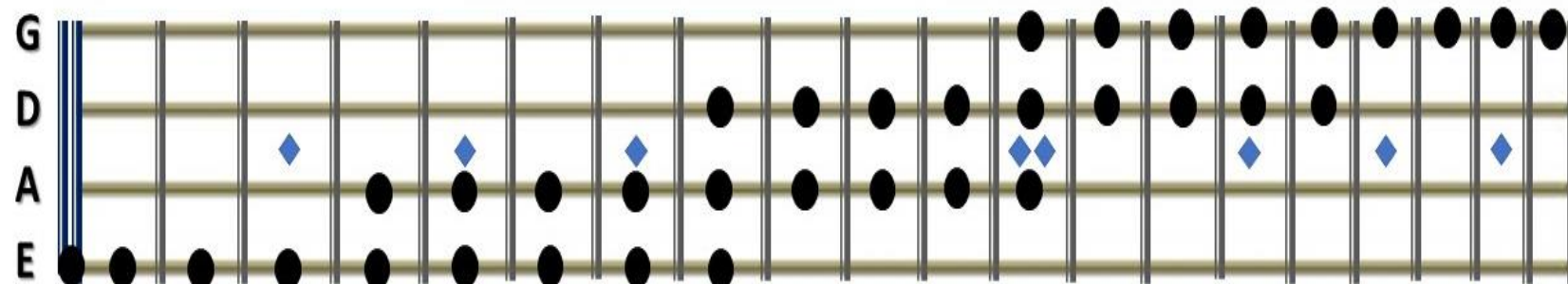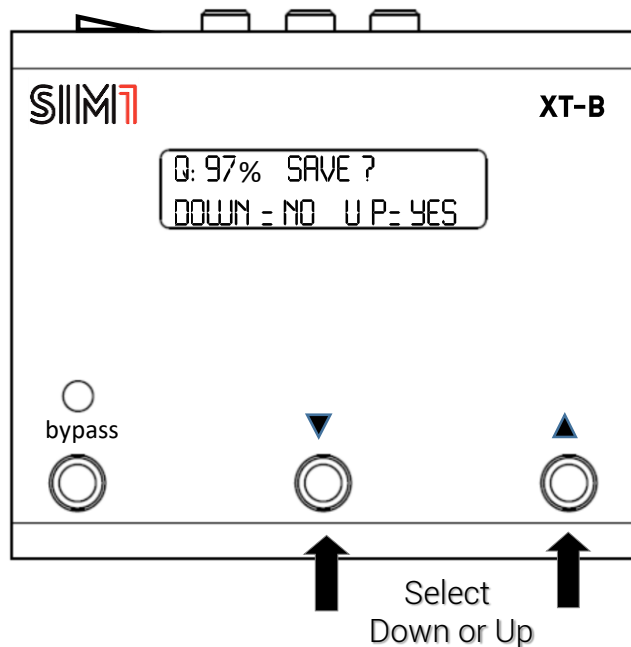
**SIM1**                                    **XT-B**

PICKUPS NUMBER ?
DOWN = 1    UP = 3

bypass    ▼    ▲

Hold bypass
+ down to start
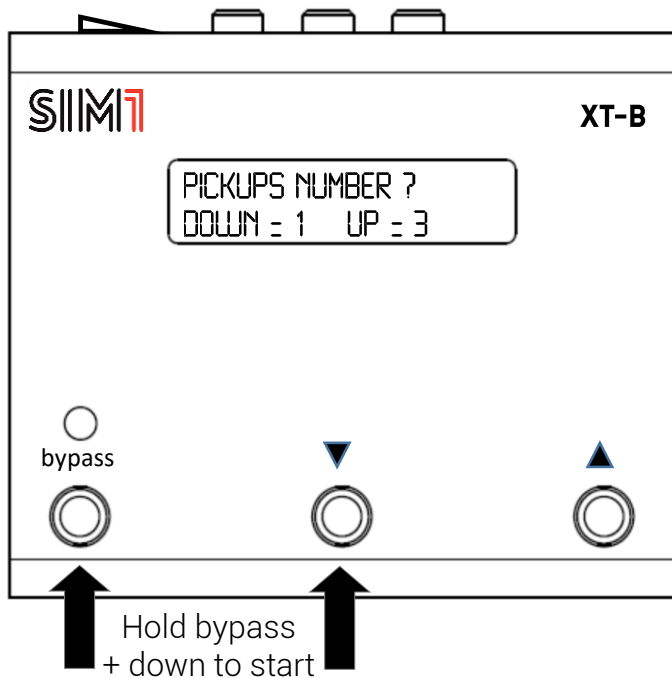
## a) **LEARN** & **PLAY**: Set-up your source bass (automatic pickups matching).

For a perfect bass guitar emulation the pedal must learn the tone of each pickup of the Source Bass. With this procedure it will automatically make the matching between the Target and the Source Bass pickups.

1. Make sure your Source Bass is in tune (440 Hz), with volume/tone open;

2. In case you wish to configure 3 pickup tone positions, adjust the volume knobs of your Source Bass to get only the Neck pickup sound;

3. Hold simultaneously the BYPASS and DOWN switches on the pedal for 3 seconds. The system will ask you the number of pickups you would like to configure (1 or 3). Press the DOWN switch to configure only 1 pickup, or UP switch to configure 3 pickups. When the countdown is finished the device will start recording (*Hold UP to Abort the procedure);*

4. Play an ascending chromatic scale starting from the E (6 open string), making a progression of 9 notes per string (80 seconds, 2 seconds per note is recommended) – see the tab beside;

**SIM1**  XT-B

```
Q: 97%  SAVE ?
DOWN = NO   U P= YES
```

bypass

▼   ▲

↑ ↑
Select
Down or Up



**SIM1**  XT-B

```
GUITARS LOADED !
UP TO CONTINUE
```

bypass

▼   ▲

↑
Switch Up to end the
Learning procedure

**5.** If you are satisfied with the quality rating, then press the UP switch, otherwise press DOWN switch and repeat the last pickup configuration.

**6.** If you selected the 3-pickup option, repeat steps 4-5 for mid (both pickups active) and bridge pickup. (For any reason, during individual Pickup configuration, it is possible to stop the Learning Procedure pressing the DOWN switch for 2 seconds).

**7.** After you have configured the last pickup (Bridge PU), the system will make a computing process of the sounds loaded in the XT-B (Display: Computing Progress 00%...100%).
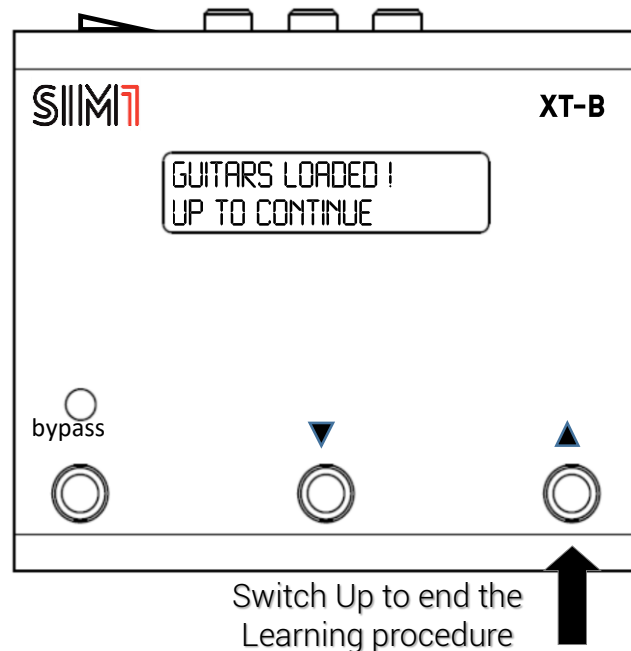
**8.** At the end of the Computing Process, press the UP switch again to end the Learning procedure. At this point the Target Bass profiles included in XT-B will be associated to the pickups you just configured. Scroll UP and DOWN the Switch selectors to test the variety of sounds.

**a2)** During the very first use, when XT-B is reset, it is possible to skip the Learning Procedure, by holding for 3 seconds the DOWN and UP Switches. You will be asked to choose among 2 Source Bass pickup configurations: Jazz Mex, Active Synapse. Follow the instructions on brackets to set the Source Bass closer to the one you have. NB: the Quick Start Source Set Up is an approximation. To get best results, the standard procedure is always preferable.
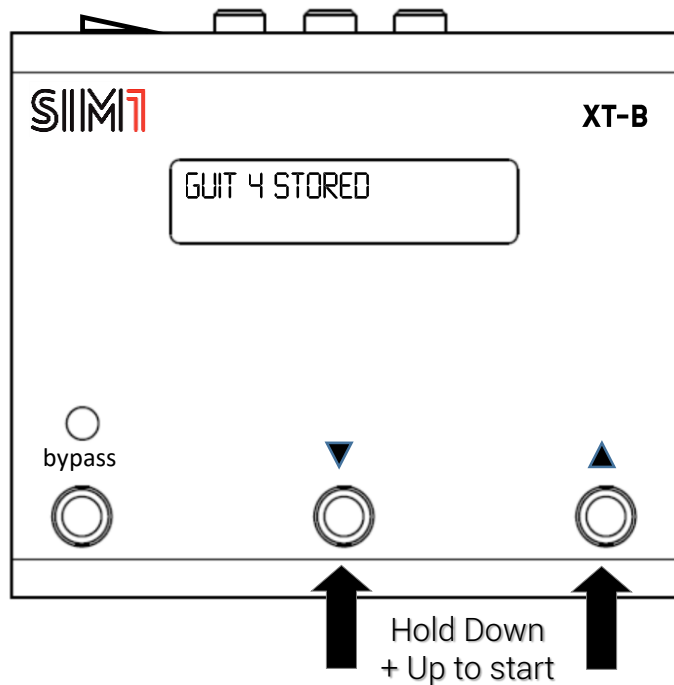
## PICKUP MATCHING:

For each Bass Profile Preset, while performing, it is recommended to activate the Pickup of your Source Bass according to the suggestion of the display. This allows to reach a sound as close as possible to that one of the original Target Bass.

When the **BYPASS MODE** is activated the Check Indicator shows the red light and the message "True Bypass" appears on the Display. Now the signal is not processed in any way, the sound is the original one of the Source Bass, and the second line of the display shows the bass/pickup you are supposed to play on the Source Bass (if you edited the name before with the Software). Pressing the BYPASS Switch again, the red light of the check indicator turns off and the sound will shift to that one of the Target Bass in use.
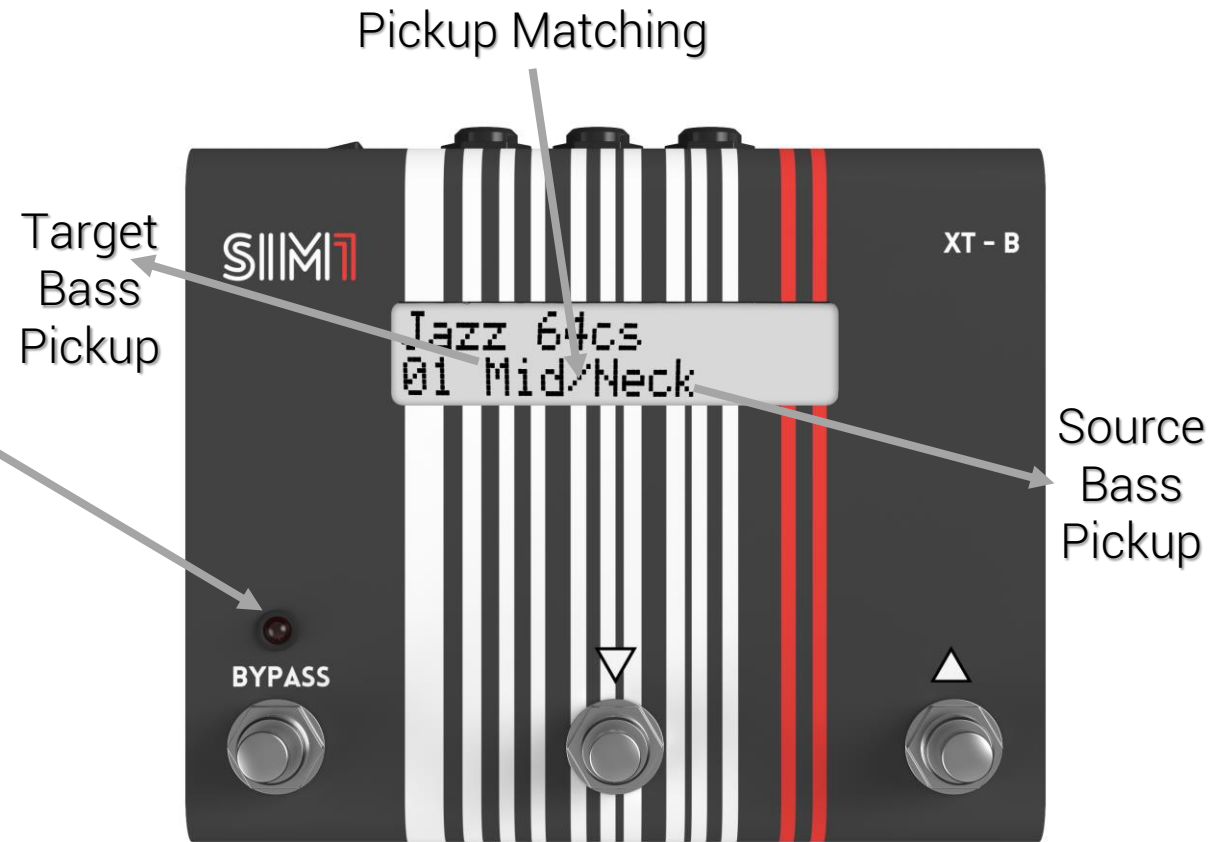
The **BALANCED OUTPUT**, connected directly to the mixer of the PA, is useful for instance when playing the sound of an acoustic bass guitar. In this way the result will be more realistic and accurate.

The **STANDARD OUTPUT** must be connected to the bass amplifier. Other effects can be connected in cascade, both through the BALANCED OUTPUT or through the STANDARD OUTPUT.

Pickup Matching

Target Bass Pickup

Source Bass Pickup

SIM1

XT - B

Jazz 64cs
01 Mid/Neck

BYPASS

SIM1    XT-B

GUIT 4 STORED

○ bypass    ▼    ▲

Hold Down
+ Up to start

b) **ADD SOURCE:** Profile one pickup at a time (pickup matching through editor)

This function allows you to record more Source Bass pickups, without modifying the previous configuration of the pedal. The matching between Target and Source Bass pickups requires the use of the Editor for PC/Mac.

Useful to:
- Record, as Source Basses, some unusual pickup configurations, different from Neck, Mid (both pickups activate) or Bridge positions;
- Record as many Source Basses as you want, to use in a different moment;
- Profile one or more Basses to be used as Target Guitars (Source Basses can be Turned into Target Basses, using the function of the Editor "Show in Target").

1. Make sure your Source Bass is in tune (440 Hz), with volume/tone open;

2. Adjust the knobs of your Source Bass to get the pickup sound you wish to profile;

3. Hold simultaneously the UP and DOWN switches on the pedal for 3 seconds. When the countdown is finished the device will start recording (*Hold UP to Abort the procedure*);

4. Play the same chromatic scale explained in the Learn & Play paragraph;

5. The newly created Source Bass will be named with a progressive number (i.e. Guit4, in case Guit1, Guit2, Guit3 were already stored);

## c) MENU SETTINGS: set Cabinets/Effects

This menu gives the opportunity to add some effects/cabinet simulation and make volume settings to each bass included in the presets. This feature allows you to connect the XT-B directly to the PA or to a powered speaker, and use it as a stand alone pedal.

Go to any of the 99 banks of the pedal you wish to adjust. Hold down all 3 switches at once for 2 seconds, and follow the instructions on brackets, to make your settings.
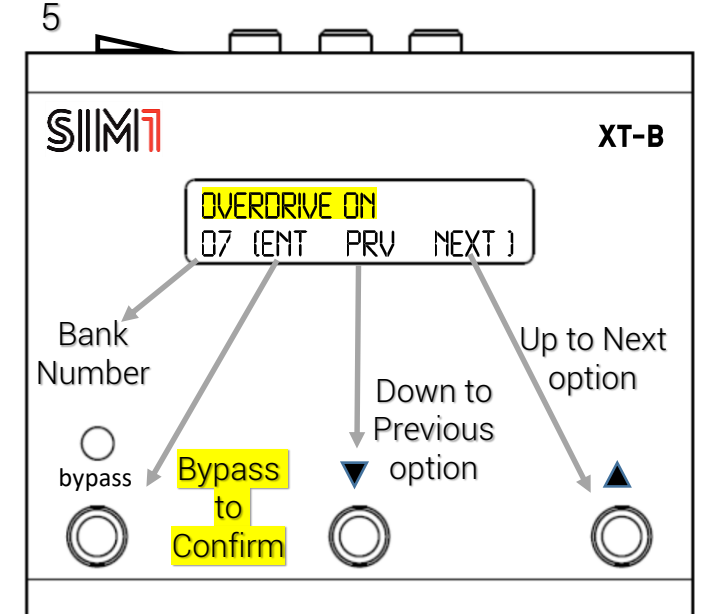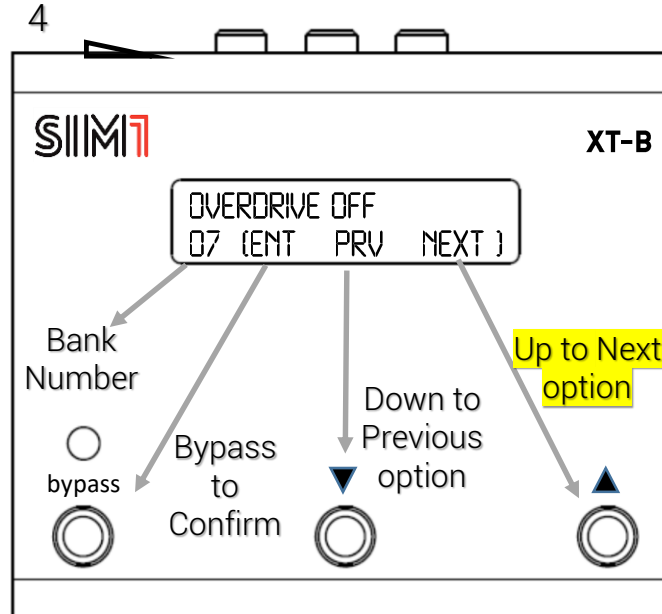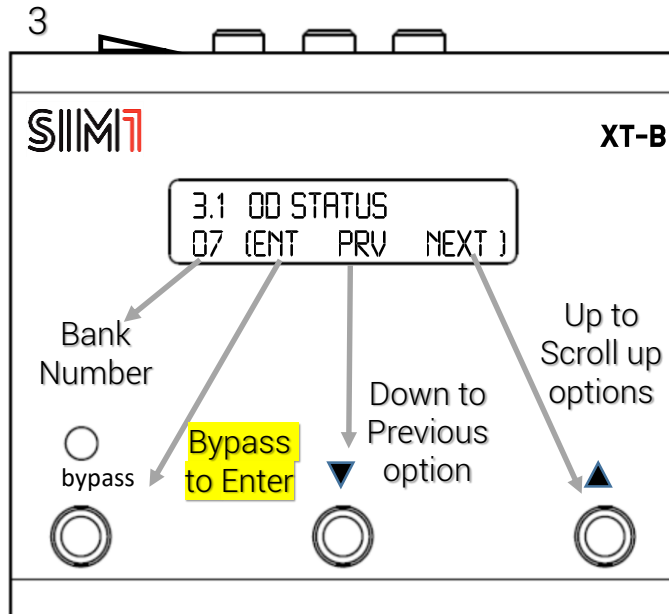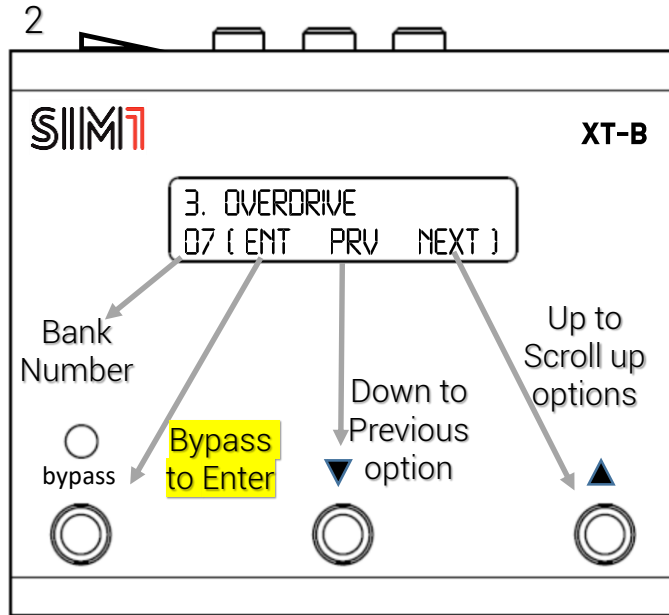
Fig. 1



Bank
Number

EMPTY/BYPASS
99   NECK/NECK
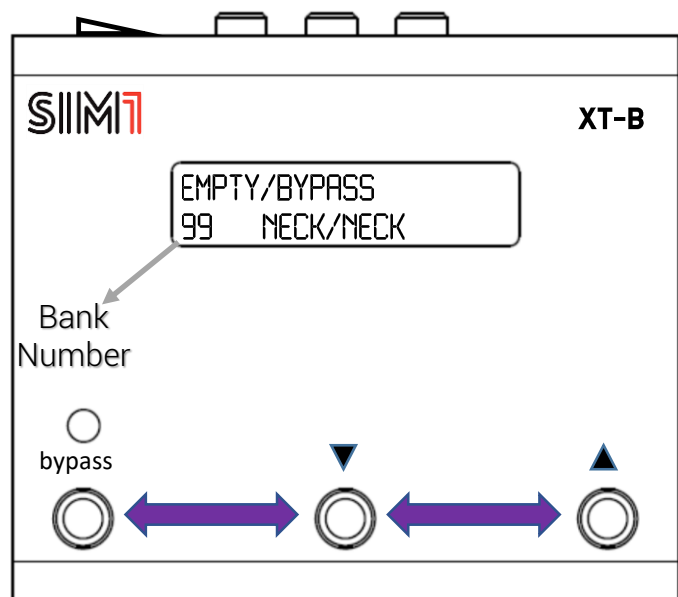
bypass

Hold Bypass + Up + Down Enter Menu Settings

### NEW FEATURES MENU:

1. Target Guit
   1.1 Model (Select the Source/Target bass in the bank)
   1.2 Gain (adjust the volume of each target bass)
2. IR Cabinets (add an Impulse Response Cabinet Emulation)
3. Overdrive
   4.1 OD Status (activate the Overdrive)
   4.2 OD Drive (set the Overdrive Percentage )
   4.3  OD Level (set the Overdrive Volume)
4. Reverb
   5.1 Rev Status (activate the Reverb)
   5.2 Rev Level (set the Reverb Percentage )
5. Tone Control
   6.1 Treble
   6.2 Bass
6. Master Gain
   7.1 Master Unbal (set the Volume of the Unbalanced Out.)
   7.2 Master Bal (set the Volume of the Unbalanced Output)

**EXAMPLE:** How to Edit the Overdrive Section



**2**

SIM1     XT-B

```
3. OVERDRIVE
07 [ ENT    PRV    NEXT ]
```

Bank Number

Bypass to Enter

Down to Previous option

Up to Scroll up options

bypass

1. Scroll up with the UP Switch until you reach "3 – Overdrive" section;

2. Enter this section through the BYPASS Switch (fig. 2);

3. Enter the section "3.1 OD Status" (Overdrive Status) through the BYPASS Switch (fig.3);

4. Activate or Deactivate the Overdrive through UP or Down Switches (fig. 4);

5. Esc and confirm using the BYPASS Switch (fig. 5);

**3**

SIM1     XT-B

```
3.1  OD STATUS
07 [ENT    PRV    NEXT ]
```

Bank Number

Bypass to Enter

Down to Previous option

Up to Scroll up options

bypass

**4**

SIM1     XT-B

```
OVERDRIVE OFF
07 [ENT    PRV    NEXT ]
```

Bank Number

Bypass to Confirm

Down to Previous option

Up to Next option

bypass

**5**

SIM1     XT-B

```
OVERDRIVE ON
07 [ENT    PRV    NEXT ]
```

Bank Number

Bypass to Confirm

Down to Previous option

Up to Next option

bypass

**EXAMPLE:** How to Edit the Overdrive Section

6. Scroll up with the UP Switch to get to the DRIVE section;

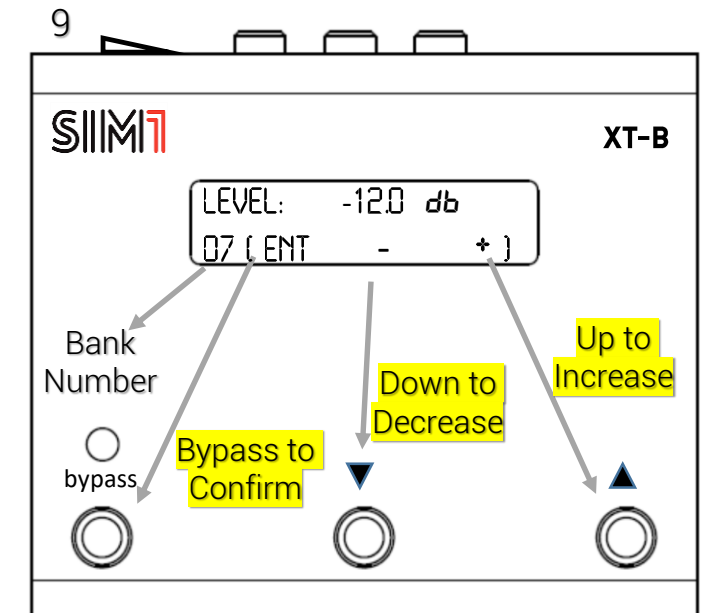7. Enter this section through the BYPASS Switch (fig. 6);
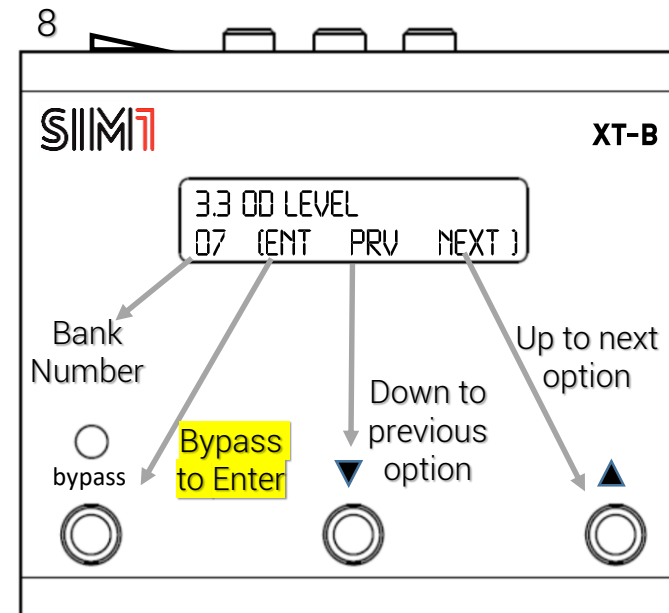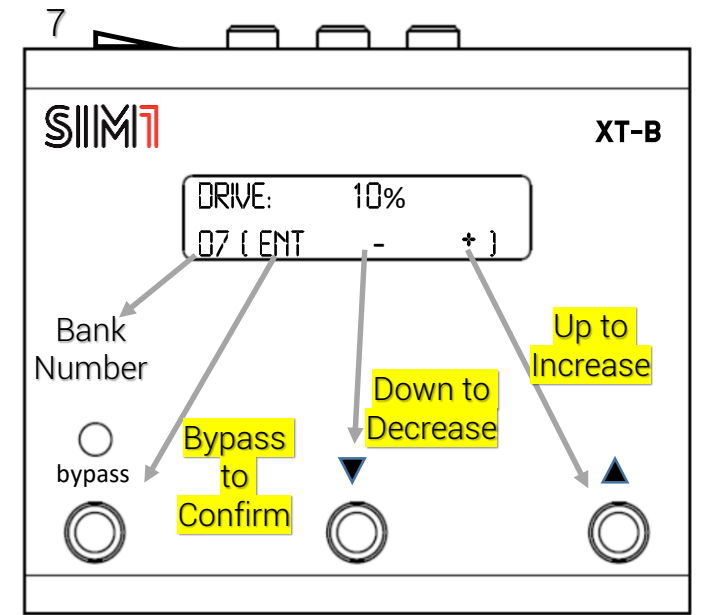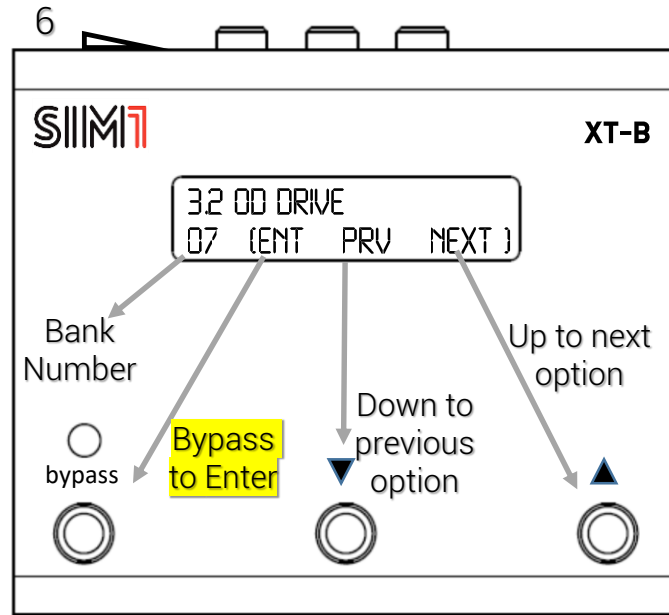
8. Adjust the Drive level through the DOWN/UP Switches (fig. 7);

9. Confirm using the BYPASS Switch;

10. Scroll up with the UP Switch to get to the LEVEL section;

11. Enter this section through the BYPASS Switch (fig. 8);

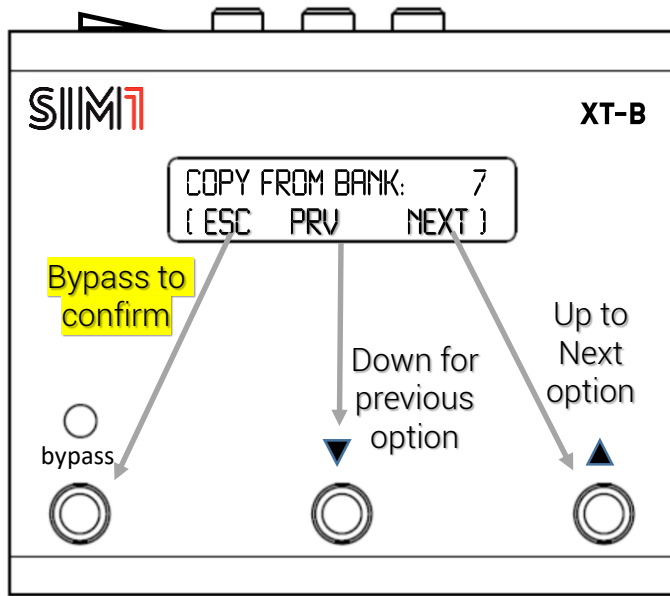12. Adjust the Drive level through the DOWN/UP Switches (fig. 9);



6

SIM1    XT-B

3.2 OD DRIVE
07 (ENT   PRV   NEXT )

Bank Number

Up to next option

Down to previous option

Bypass to Enter

bypass



7

SIM1    XT-B

DRIVE:       10%
07 ( ENT      -      + )

Bank Number

Up to Increase

Down to Decrease

Bypass to Confirm

bypass



8

SIM1    XT-B

3.3 OD LEVEL
07 (ENT   PRV   NEXT )

Bank Number

Up to next option

Down to previous option

Bypass to Enter

bypass



9

SIM1    XT-B

LEVEL:      -12.0  db
07 ( ENT      -      + )

Bank Number

Up to Increase

Down to Decrease

Bypass to Confirm

bypass

Fig. 10

Bypass to confirm

bypass

Down for previous option

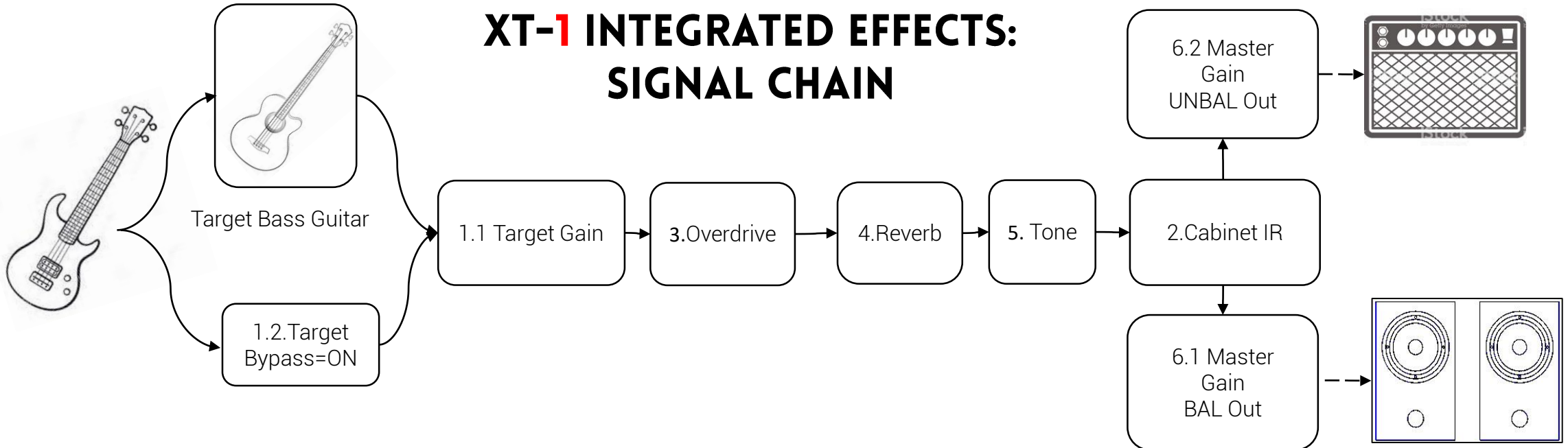Up to Next option

**EXAMPLE:** How to Edit the Overdrive Section

**13.** Leave the OVERDRIVE Section through 3.4 EXIT. When you finish editing your preset, go to the section 7. EXIT. You will be asked to SAVE the CHANGES;

**14.** In any section, you can even hold BYPASS Switch [Ent] to EXIT and eventually SAVE the CHANGES.

## CLONE EFFECTS FORM OTHER BANKS

On each bank of XT-B it is possible to Copy/Paste the Bank/Effects settings from a different preset. Go to the bank you wish to modify, hold the Bypass Switch for 2 seconds, and follow the instructions on brackets (fig. 10).

# XT-1 INTEGRATED EFFECTS: SIGNAL CHAIN

Target Bass Guitar

1.1 Target Gain → 3.Overdrive → 4.Reverb → 5. Tone → 2.Cabinet IR

1.2.Target Bypass=ON

6.2 Master Gain UNBAL Out

6.1 Master Gain BAL Out

# USB PORT: Back-up & Upgrade for the Configuration Manager Software

XT-B is equipped with a USB Port 2.0, which must be used strictly with a USB pendrive in order to transfer the Back Up of profiles (both source basses and target basses) from XT-B to the Configurator Manager Software, and to reload your profiles (Upgrade) in your device after editing.
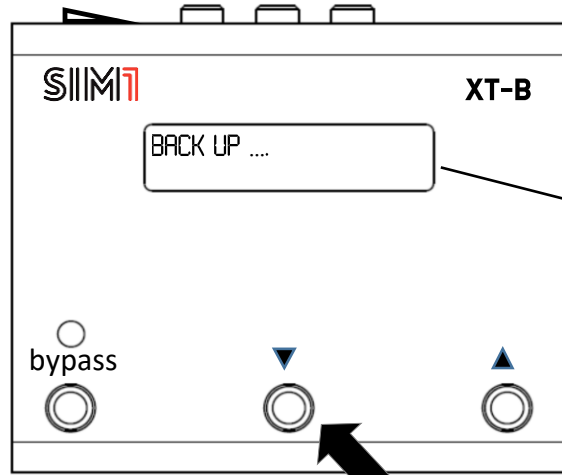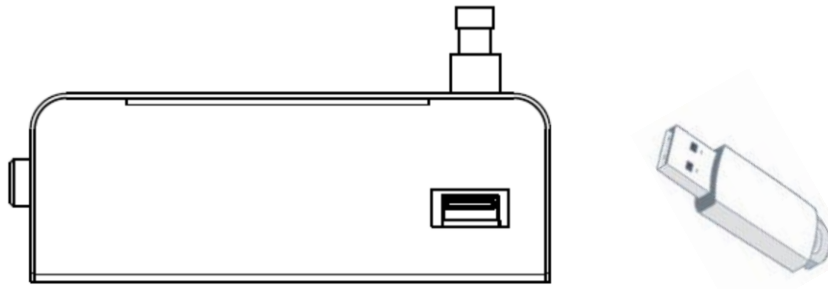
## BACK UP PROCEDURE

Insert the USB pendrive in the USB port, then for 3 seconds press the DOWN Switch. At this point on the display will appear "Back Up…". Leave the USB pendrive inserted into unit until all the data will be transferred to the key, and "Done!" will appear on the display. Now it is possible to remove the pendrive and to insert it to the PC/MAC in order to import the Back Up file (xtb.arc) of your XT-B on the Configurator Manager.

BACK UP...
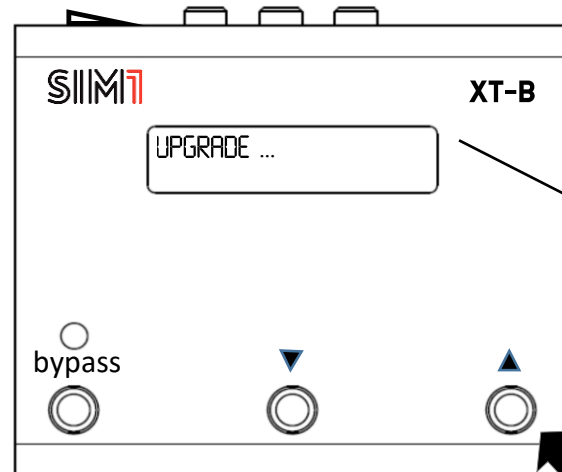
DONE !

## UPGRADE PROCEDURE

Once all data have been saved from the Configurator Manager to the Pendrive, bring it back to the USB port of the pedal, then for 3 seconds press the UP Switch. At this point on the display will appear "Upgrade..". Leave the pendrive inserted into the unit until all the data has forwarded to the XT-B, and "Done!" will appear on the display. Now it is possible to extract the pendrive.

UPGRADE...

DONE !
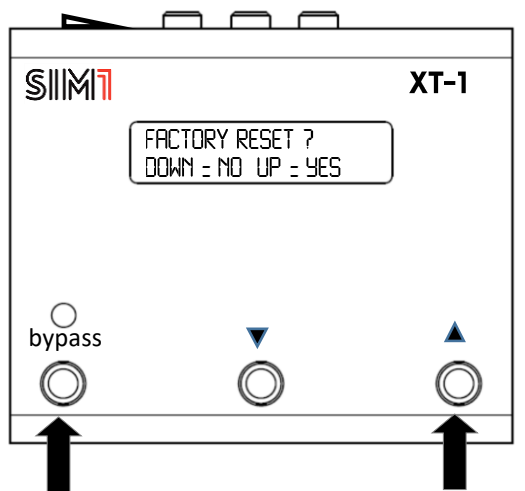
Hold simultaneusly the two switches
to reset the device

## RESET PROCEDURE:

In order to reset the device at the factory default settings you must hold simultaneously the BYPASS and UP Switches for 3 seconds. You will be asked to confirm this procedure: press "UP" Switch to definitively reset, "Down" Switch if you do not want to reset. After the reset procedure all the Source and Target Basses inside XT-B will be restored to those of factory default setting. It is strongly suggested to make a backup before making this procedure, in order not to definitively lose your previous configuration.
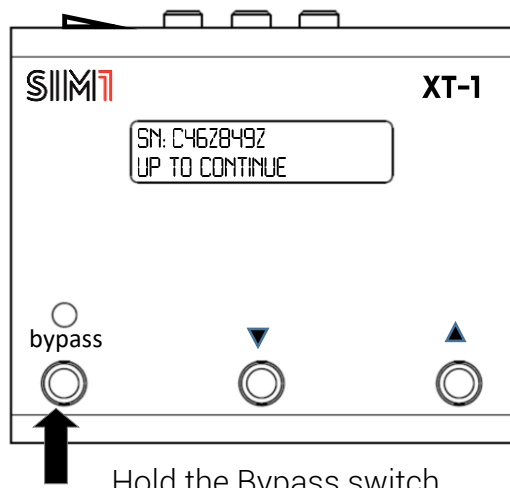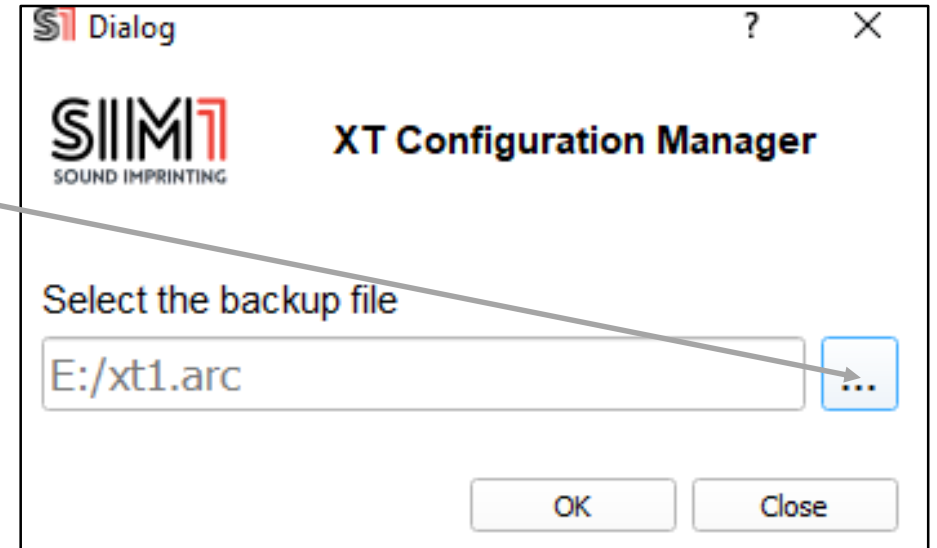


Hold the Bypass switch
To get the XT-B Code

## XT-B CODE:

In order to get the XT-B Code, a unique serial number, hold for 3 seconds the BYPASS Switch, and it will appear on the display. This code is useful to register your device in the SIM1 Web-Store (https://store.sim-one.it/). This procedure will allow you to use in the new sounds you will buy or you will download for free from the Community. Please note that if you do not enter the Serial Number Code on the Web/App correctly, the downloaded sounds will not be correctly installed in your XT-B device and it will report an error.

# CONFIGURATION MANAGER per PC/Mac

**1.** Create an account on the Online Store https://store.sim-one.it/, making sure to register your pedal with the correct XT-B code;

**2.** Buy or Download for free some new Bass Profiles from the Community;

**3.** In the «Download» section of the website http://www.sim-one.it/ get and install the Configuration Manager for PC/Mac in your Computer;

**4.** Browse the content of your pendrive and select the backup file «xt1.arc»;

**5.** Click on «Sync with Store» to get the new bass profiles you ordered from the Store;

**5.** Click on any Bass on the "Target" column to check the available instruments, and select the one you wish to insert on that bank;

**6.** Create your favourite configuration (matching Source/Target bass) in the available 30 banks. Edit Volumes and add Cabinets Simulations (IR);

**7.** Save our new configuration on the USB pen drive, bring it to the pedal and hold the UP switch in order to do the Upgrade procedure and transfer the new configuration on XT-B.

---

**S1 Dialog** ? ✕

**SIM1** SOUND IMPRINTING

**XT Configuration Manager**

Select the backup file

E:/xt1.arc | ...

OK | Close

**XT-1 Configuration Manager 2.0**

**CONFIGURATION MANAGER** per PC/Mac

Midi Master: control with XT-B other MIDI devices

MIDI Mode: ○ Master ● Slave
MIDI Ch: All

| Bank | Source | Target | Midi | Cabinets | Master Gains |
|------|--------|--------|------|----------|--------------|
| 1 | guit2 / Mid | Rickembacker® 4003s Midnight / Mid | PrCh 1 / PrCh Bypass None — 1,00 | None | Out 1,00 / Bal.Out 1,00 |
| 2 | guit1 / Neck | Bypass / - | PrCh 2 / PrCh Bypass None — 1,00 | None | Out 1,00 / Bal.Out 1,00 |
| 3 | guit3 / Bridge | Rickembacker® 4003s Midnight / Bridge | PrCh 3 / PrCh Bypass None — 1,00 | None | Out 1,00 / Bal.Out 1,00 |
| 4 | guit2 / Mid | Gibson® Thunderbird® 2018 Vintage / Mid | PrCh 4 / PrCh Bypass None — 1,00 | None | Out 1,00 / Bal.Out 1,00 |
| 5 | guit1 / Neck | Gibson® Thunderbird® 2018 Vintage / Neck | PrCh 5 / PrCh Bypass None — 1,00 | None | Out 1,00 / Bal.Out 1,00 |
| 6 | guit3 / Bridge | Gibson® Thunderbird® 2018 Vintage / Bridge | PrCh 6 / PrCh Bypass None — 1,00 | None | Out 1,00 / Bal.Out 1,00 |
| 7 | guit2 / Mid | Yamaha® TRB1004J Natural / Mid | PrCh 7 / PrCh Bypass None — 1,00 | None | Out 1,00 / Bal.Out 1,00 |
| 8 | guit1 | Yamaha® TRB1004J Natural | PrCh 8 / PrCh | None | Out 1,00 |

Select the Source Bass

Select the Target Bass

Insert Bypass in the Bank

Adjust the Target Bass Gain

Assign a MIDI Program Change in the Bank

Load ad insert IR for Cabinet Simulations

Adjust the Master Gain of the 2 independent outputs

Edit source bass names/ Turn Source in Target/send to the Community

Download the bass tones you got from the Store/Community

Save the Configuration

My Guitars

Sync With Store

Save as   Save   Exit

Total pre-sets ..................................30

Guitar Profiles pre-loaded ...................................12

AD Conversion ...................32 bit

DA Conversion.....................32 bit

Sample Rate ...........48/96 kHz

Input Impedance ...............1 MΩ

Output Impedance (Standard Output-OUT)...................680 Ω

Output Impedance (Balanced Output-BAL) .......................10 kΩ

Recommended Load Impedance ......................10 KΩ or Greater

Signal To Noise ratio .........> 104 dB

Controls........................ On/Off switch, Switches Up & Down , Switch  Bypass

USB Port.......................2.0

Indicators..............................Display Lcd (2 lines, 16 typefaces each)

Connectors............................jack ¼ inch (Input/Output/Balanced Output)

Connector AC Adaptor Jack ..........................5.5*2.1mm

Power Supply ........................AC 9V-1 A o 12 V 500 mA – sold separately

Polarity............. Negative inner

Dimensions ...............147 (W) 125 (D) 47 (H) mm

Weight ....................................750 g.

Accessories .........................User's Manual

Options ............................ AC Adaptor, Wi-Fi USB Adapter

Midi Program Change........ ...)...........................through MIDI/USB adapter (Not included)

# DESIGNED & HAND-BUILT IN ITALY USING HIGH QUALITY COMPONENTS

*Graphics or painting imperfections are due to handcraft production*
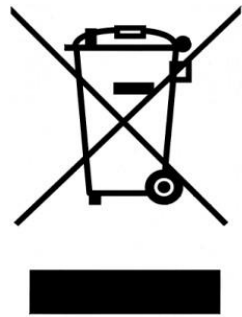
## SIM1 SRL

Legal Address: Via Ca' Rossa 54, 47121 Forlì (FC) - Italy
Operational Headquarter: Via Balzella 41/D, 47122 Forlì (FC) - Italy
www.sim-one.it    info@sim-one.it