

MOOER

SD50A
ACOUSTIC AMPLIFIER

Owner's Manual

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PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Power Supply

Please connect the DC POWER Supply to an AC outlet of the correct voltage. Please be sure to use only an AC adapter which supplies 15V DC, $\oplus \text{---} \ominus$, center negative. Unplug the AC power adapter when not in use or during electrical storms.

Connections

Always turn off the power of this and all other equipment before connecting or disconnecting, this will help prevent malfunction and / or damage to other devices. Also make sure to disconnect all connection cables and the power cord before moving this unit.

Cleaning

Clean only with a soft, dry cloth. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, cleaning alcohol, paint thinners, wax, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Interference with other electrical devices

Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

Location

To avoid deformation, discoloration, or other serious damage, do not expose this unit to the following conditions:

- Direct sunlight
- Magnetic fields
- Excessive dusty or dirty location
- Strong vibrations or shocks
- Heat sources
- Extreme temperature or humidity
- High humidity or moisture

FCC certification

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

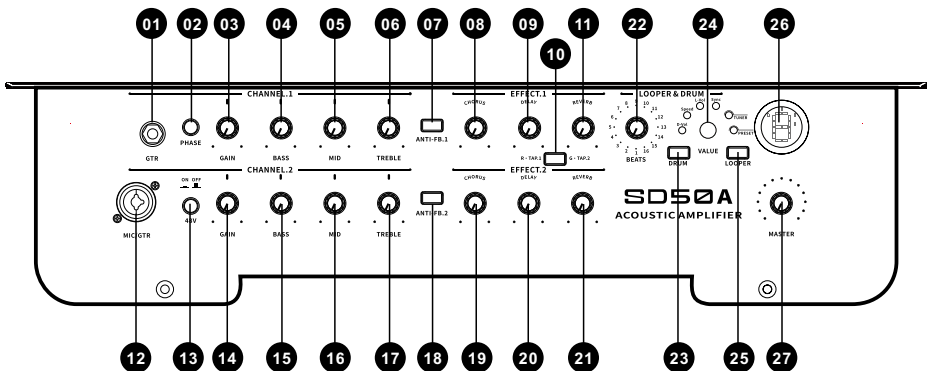
- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

*Please only use the product in Non-tropical area safety.

Main Feature

- Bluetooth 4.0 support and auxiliary audio input for audio playback
- OTG support for smartphone and tablet recording
- Dual-channel preamp: Guitar input & Microphone/Guitar input
- One 8-inch FRFR (full range, flat response) speaker, One 1-inch treble speaker
- High-precision tuner
- Individual digital EQ/Chorus/Delay/Reverb effects
- Double XLR balanced output mode: D.I, direct output; PRE, preamp and effect output to Mixer
- 150-second looper with support for instrument and microphone
- Drum machine with 16 different grooves
- Wireless footswitch support

Top Panel



CHANNEL.1

- 01 **GTR:** 6.35mm (1/4") guitar input
- 02 **PHASE:** Phaser effect
- 03 **GAIN:** Guitar preamp gain
- 04 **BASS:** Bass frequency adjustment
- 05 **MID :** Middle frequency adjustment
- 06 **TREBLE:** Treble frequency adjustment

EFFECT.1

- 08 **CHORUS:** Chorus effect control
- 09 **DELAY:** Delay effect control
- 11 **REVERB:** Reverb effect control

CHANNEL.2

- 12 **MIC/GTR:** Microphone/Guitar input
- 13 **48V:** 48V phantom power switch
- 14 **GAIN:** Microphone/guitar preamp gain adjustment
- 15 **BASS :** Bass frequency adjustment
- 16 **MID :** Middle frequency adjustment
- 17 **TREMBLE :** Treble frequency adjustment

EFFECT.2

- 19 **CHORUS:** Chorus effect control
- 20 **DELAY:** Delay effect control
- 21 **REVERB:** Reverb effect control

ANTI-FB

- 07 **ANTI-FB.1:** Feedback control of Channel 1
- 18 **ANTI-FB.2:** Feedback control of Channel 2

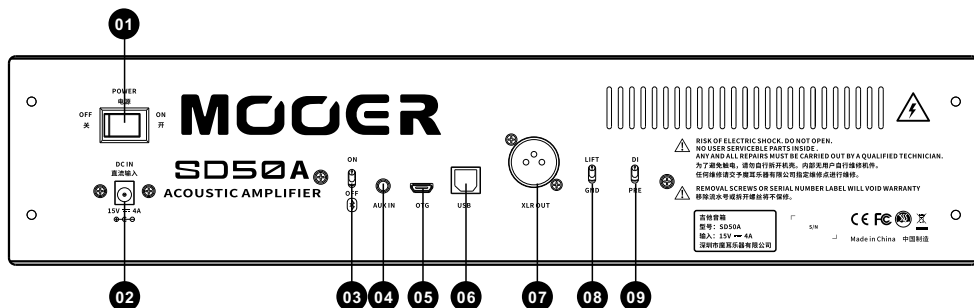
TAP TEMPO

- 10 **R-TAP.1/G-TAP.2** : LED Button - switch between RED and GREEN mode
RED mode: R-TAP.1(Control the EFFECT.1, DELAY)
GREEN mode: G-TAP.2(Control EFFECT.2 DELAY)

LOOPER & DRUM

- 22 **BEATS** : Rhythm type switch of drum machine
23 **DRUM** : On/off of drum machine
24 **VALUE** : Editor knob. Rotate and press to make a decision
25 **LOOPER** : LOOPER function control
26 **Screen display**
27 **MASTER** : Master volume level control

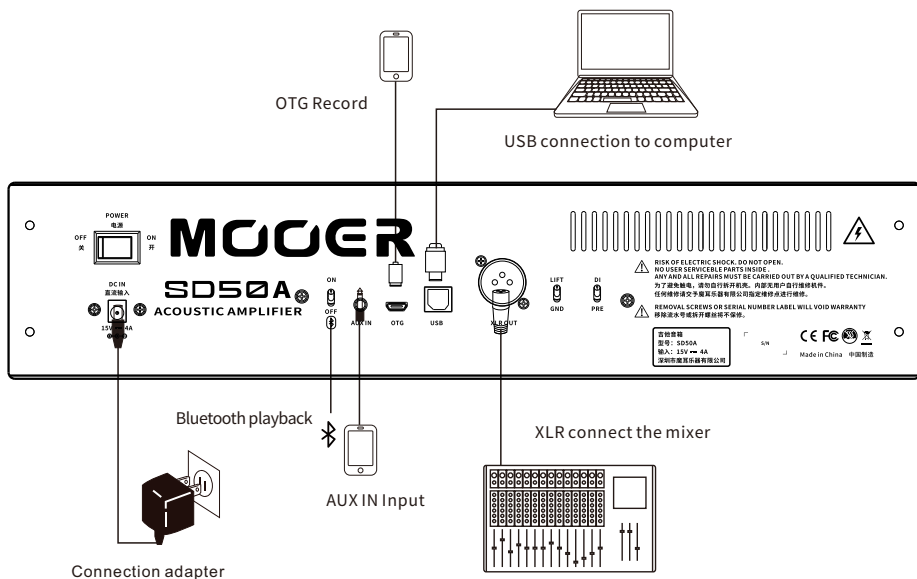
Back Panel



- 01 **POWER** : Power Switch
02 **DC IN**
03 **BLUETOOTH** : Turn On/Off Bluetooth
04 **AUX IN** : Auxiliary audio input for 1/8" stereo jack cable
05 **OTG** : MICRO USB port to connect compatible smartphone or tablet for direct recording.
06 **USB** : Type B USB port. Connect a USB cable to a PC computer for firmware update.
07 **XLR OUT** : XLR balanced output
08 **LIFT/GND** : Grounding switch of XLR output
09 **D.I./PRE** : XLR output mode switch

- Adjust the MASTER/GAIN to the minimum
- Turn on the SD50A. Adjust the volume and gain levels as you desire.
- SD50A should be used with the original power supply.

The diagram shows the control panel of the SD50A Acoustic Amplifier. It features two input channels: CHANNEL 1 and CHANNEL 2. CHANNEL 1 includes a GTR input with a pickup selector, and CHANNEL 2 includes a MIC input with a switch for 'ON' and 'OFF'. Both channels have knobs for GAIN, BASS, MID, and TREBLE. There are also buttons for PHASE and ANTI-FB. The panel includes two effect sections, EFFECT 1 and EFFECT 2, each with a knob and a button. A LOOPER & DRUM section contains a BEATS knob, a DRUM button, and a VALUE LOOPER button. A MASTER volume knob is located on the right. The brand name 'SD50A' and 'ACOUSTIC AMPLIFIER' are prominently displayed in the center.



Preset Editing

SD50A CHANNEL 1 and 2 includes an analog preamp section delivering clean and warm tone with built-in individual EQ/Chorus/Delay/Reverb effect.

● Adjustment

Adjust the tone by

BASS/MID/TREBLE/CHORUS/DELAY/REVERB

CHORUS – Control LEVEL & DEPTH

DELAY – Control LEVEL & FEEDBACK

REVERB – Control LEVEL & DECAY

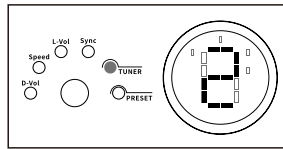
● Saving Preset

After editing, press and hold the VALUE knob to save.

Preset LED will light up and the screen will start to blink. Rotate VALUE to select a slot to store then press and hold VALUE again to confirm save.

You can cancel save by pressing the VALUE knob once.

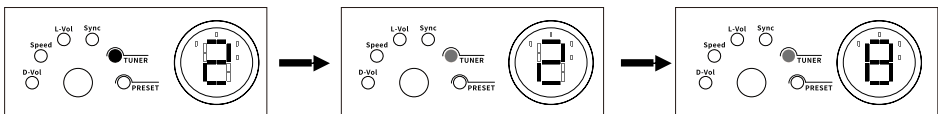
Notice: The GAIN value of the analog preamp cannot be saved.



● Select Preset

SD50A has 10 presets in total. Rotate VALUE to PRESET mode and press to confirm. Rotate VALUE knob again to select a preset. Press VALUE knob yet again to quit preset selection mode.

Tip: MOOER F4 can support SD50A with preset switching.



Tap Tempo

Tap the footswitch multiple times to control the tempo of your delay effects.
Press and hold TAP button to enter different tap modes.

R-TAP.1 - Control the delay of EFFECT 1, button light will turn RED

R • TAP.1



G • TAP.2

G-TAP.2- Control the delay of EFFECT 2, button light will turn GREEN.

R • TAP.1

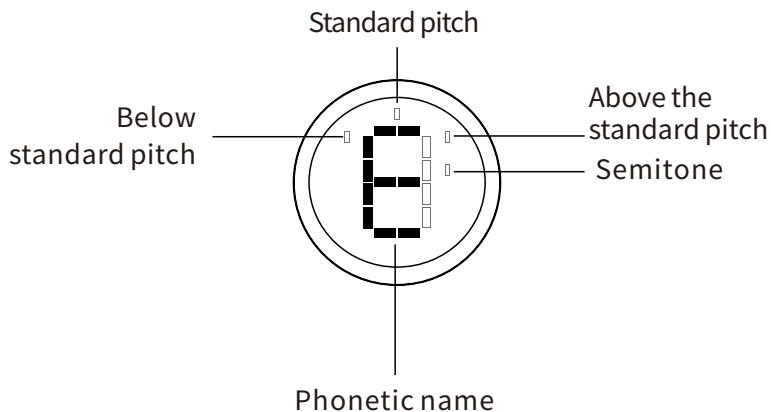


G • TAP.2

Tuner

1.Tuner mode

Rotate the VALUE knob and select TUNER



2.Calibration

When the TUNER is activated, press the VALUE knob to enter calibration. Rotate the VALUE knob to select desired tuning frequency.

Number	Frequency (Hz)	Number	Frequency (Hz)
0	435	5	441
1	436	6	442
2	437	7	443
3	438	8	444
4	439	9	445
A	440		

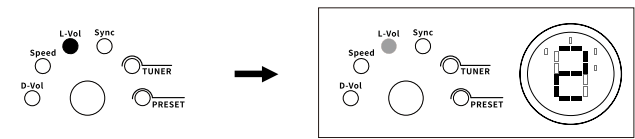
JAM mode (Looper & Drum Machine)

SD50A has a built-in LOOPER function and drum machine (including 16 different rhythms), suitable for practice and live performance.

1.LOOPER

- **REC:** Press LOOPER button to enter LOOPER. LOOPER LED button will turn red and blink. Looper will automatically start recording when the first note of playing is detected.
- **PLAY:** During REC/DUB, press LOOPER button to playback. LOOPER LED button will turn green.
- **DUB:** During PLAY mode, press LOOPER button to dub. LOOPER LED button will turn red.
- **STOP:** During REC/DUB/PLAY, press LOOPER button twice quickly to stop.
- **CLEAR:** During any mode, press and hold LOOPER button for 2 seconds to clear all tracks.
- **Looper Volume :** Rotate the VALUE to L-VOL. Press to enter looper volume level menu. Rotate the VALUE to select a desired volume level, the level will be shown on the screen.

- Exit Looper:** In the READY mode (The LOOPER LED in red and blinks), press LOOPER button twice/press and hold LOOPER button for 2 seconds to exit looper.

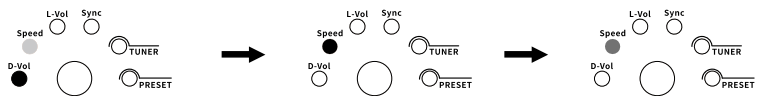


2.Drum Machine

- Rhythm Type :** Rotate the BEAT knob to select a desired rhythm type.

Percussion Rhythm		Jazz Drum Rhythm	
Num	Beats	Num	Beats
ON.01	6\8	ON.09	4\4
ON.02	4\4	ON.10	4\4
ON.03	4\4	ON.11	4\4
ON.04	4\4	ON.12	4\4
ON.05	4\4	ON.13	4\4
ON.06	4\4	ON.14	6\8
ON.07	4\4	ON.15	6\8
ON.08	4\4	ON.16	6\8

- On/off:** Press the DRUM button to switch on/off the drum machine.
- Drum Volume:** Rotate VALUE to D-VOL and press once to select (The LED of D-VOL will turn green). Rotate the VALUE to adjust the volume level.



- **Drum Machine BPM:** Rotate VALUE to SPEED. Press VALUE to enter BPM menu (The LED of SPEED will turn green). Rotate the VALUE to adjust the BPM.

3.SYNC (Drum machine & Looper)

SYNC function allows use of the Drum Machine and Looper simultaneously. Before recording begins, there will be a Count-in. Drum machine and Looper can be used separately after the recording has begun.

- **Procedure:** Rotate the VALUE knob and navigate to SYNC. Press VALUE to enter SYNC mode. the SYNC LED will turn green. If the LED blinks and the screen shows "--", then the SYNC is off. if the LED stays green, SYNC is on. Rotate the VALUE knob to switch on/off SYNC.

Notice: SYNC LED will stay yellow when in another menu.

- 4. **MOOER F4 can be used for easier JAM operations. Please refer to the 'Wireless Footswitch' section for details.**

Anti-Feedback

SD50A has two channels, both with individual anti-feedback functions.

- **Activate:** Press the ANTI-FB button to activate the Anti-Feedback function. If it is the first time being activated, it will start frequency scanning indicated by the blinking LED. Otherwise, it will recall the previous scan settings.
- **Start Frequency Scanning:** When the ANTI-FB is activated, press ANTI-FB again to start scanning. LED will start blinking. If there are previous scan results, the SD50A will keep the result and add more details with latest scan results. When the scan is done, the LED will stop blinking.
- **Stop Frequency Scanning:** During the scanning, press ANTI-FB button to pause.
- **Turn off:** Press and hold the ANTI-FB button to turn off anti-feedback function.
- **Clear:** When the ANTI-FB function is not activated, press and hold the ANTI-FB button to clear the scanning result.

Notice: Anti-Feedback function can be accessed via MOOER Air Switch.

AUX IN & Bluetooth

SD50A supports Bluetooth 4.0 and auxiliary input for audio playback.

- **AUX IN:** With 1/8" signal cable connecting to audio device for audio playback.
- **Bluetooth:** Turn on the Bluetooth switch to activate Bluetooth. Pair with "MOOER SDAMP" to use Bluetooth audio playback.
- **Volume Level:** The playback volume can be adjusted on your mobile device. The MASTER knob will affect the global volume level.

Wireless Footswitch

SD50A supports MOOER F4 for extra footswitch control.

Note: MOOER F4 footswitch is sold separately.

1. Wireless Footswitch Pairing:

The pairing procedure is as follows:

- Power on the amplifier while holding the DRUM button. Release after more than 2 seconds to enter pairing mode. Power on the wireless footswitch and hold the A and C footswitches to complete pairing.
- While paired and the amplifier is powered on, hold the A and C footswitches for 2 seconds to disconnect the pairing.

2. Control Mode

Press B & C simultaneously to switch control mode.

- **PRESET & ANTI-FB mode:** The screen of SD50A will show the number of preset. The wireless footswitch will synchronously display the PRESET number.

Footswitch A/B Preset switch

Footswitch C ANTI-FB.1

Footswitch D ANTI-FB.2

- **LOOP & DRUM mode:** The screen of SD50A will show “L”.The wireless footswitch will synchronously display “L.d”.

Footswitch A REC/PLAY/DUB

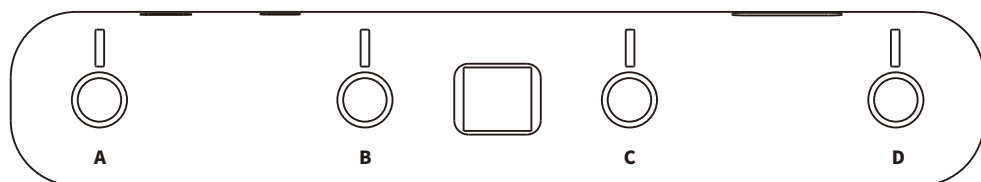
Footswitch B Press to STOP/Press and hold to CLEAR

Footswitch C Tap Tempo

Footswitch D Switch of drum machine

3. Quick Lock & Mute Control

- In any control mode, press the A and B footswitches to lock the footswitch functions and mute the amplifier. Press A and B again to exit.
- The amplifier screen displays "II", and the wireless footswitch synchronously displays "II".



Factory Setting

You can restore your SD50A to factory settings by following the procedure below.

- Ensure SD50A is powered OFF
- Press and hold VALUE while simultaneously powering on the SD50A
- When the 6 green lights begin flickering simultaneously, you can release VALUE
- SD50A has successfully been restored to factory settings

Specifications

Effects: EQ*2 CHORUS*2 DELAY*2 REVERB*2 ANTI-FB*2

Num. of Drum Machine: 16 (8 Jazz drum and 8 percussion)

Num. of preset patch: 10

Looper: 150 seconds

Input: 2* 1/4" mono Instrument/microphone input jack, AUX IN.

Output: XLR balanced output

USB port: Type-B USB port, Micro-B USB (OTG)

Power Supply: DC15V 4A

Rated power: 50W

Speaker: 8-inch MOOER custom speaker, 1-inch MOOER custom treble speaker

Dimension: 460mm*236mm*405mm

Weight: 11Kg

Accessories: Owner's manual, power supply

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