Walrus Audio 900-1057mkII

Walrus Audio Mako Series MKII ACS1 Amp Cab Simulator User Manual

Model: 900-1057mkII

1. INTRODUCTION

The Walrus Audio Mako Series MKII ACS1 is an advanced amplifier and speaker cabinet simulator designed to provide the sound and feel of world-class amplifiers. It integrates complimentary speaker cabinet Impulse Responses (IRs) from Tone Factor and York Audio, along with controllable room size simulation. This device offers extensive options for delivering guitar tone in various settings, including live performance, studio recording, and home practice. Its user-friendly controls, stereo input and output capabilities, onboard presets, and MIDI support make it a versatile tool for guitarists.

The ACS1 features six distinct amplifier models, each inspired by historically significant amplifiers, and twelve cabinet IRs meticulously designed by industry experts to ensure optimal tonal representation. Custom IRs for the Fullerton, London, and Dartford amp models were engineered by David Hislop and Kenyon Reed at Tone Factor, while Justin York of York Audio designed the IRs for the Red, Citrus, and Tread amp models.

2. SAFETY INFORMATION

- Use only the specified 9V DC power supply (center negative, 300mA minimum). Incorrect power supplies can damage the unit and void the warranty.
- Do not expose the unit to water, moisture, or extreme temperatures.
- Avoid dropping or subjecting the unit to severe impacts.
- Do not attempt to open the enclosure or modify the internal components. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the unit during operation.

3. PRODUCT OVERVIEW

3.1 Key Features

- Six distinct amplifier models.

- Twelve custom-engineered Impulse Responses (IRs) from Tone Factor and York Audio.

- Three different types of reverb effects.

- Controllable room size simulation.

- Stereo input and output for versatile connectivity.

- Onboard presets for quick recall of settings.

- Full MIDI support for advanced control.

- Ability to load custom IRs and update firmware via walrusaudio.io.

- Integrated Noise Gate and Output EQ.

3.2 Controls and Connections

The ACS1 features a straightforward control layout and versatile connectivity options. Refer to the images below for a visual guide to the pedal's components.

Figure 1: Front View of the Walrus Audio Mako Series MKII ACS1. This image displays the pedal's top panel, including the six control knobs (VOL, GAIN, ROOM, BASS, MIDDLE, TREBLE), the central display screen, and the two footswitches (BYPASS and BOOST/PRESET). The Walrus Audio logo and "AMP + CAB SIMULATOR" text are also visible.

Figure 2: Input Side View. This image shows the right side of the pedal, featuring the Mono (L) and Stereo (R) input jacks. These are used to connect your instrument or other pedals to the ACS1.

Figure 3: Output and Power Side View. This image displays the left side of the pedal, showing the Mono (L) and Stereo (R) output jacks, along with the 9V DC power input jack. The power requirements (9VDC, 300mA) are also indicated.

Top Panel Controls:

- **VOL:** Controls the overall output volume of the pedal.
- **GAIN:** Adjusts the amount of overdrive and distortion for the selected amplifier model.
- **ROOM:** Controls the size and character of the simulated room ambiance.
- **BASS:** Adjusts the low-frequency response of the amplifier.
- **MIDDLE:** Adjusts the mid-range frequency response of the amplifier.
- **TREBLE:** Adjusts the high-frequency response of the amplifier.
- **Display Screen:** Shows current settings for amp model, cabinet IR, EQ, room, and other parameters.

Footswitches:

- **BYPASS:** Toggles the effect on and off.
- **BOOST/PRESET:** Engages the boost function or cycles through presets, depending on the mode.

Side Panel Connections:

- **MONO (L) IN:** Main input for your instrument or signal chain.
- **STEREO (R) IN:** Secondary input for stereo signal processing.
- **MONO (L) OUT:** Main output to an amplifier, mixer, or audio interface.
- **STEREO (R) OUT:** Secondary output for stereo signal processing.
- **9V DC Power Input:** Connects to a standard 9V DC (center negative) power supply.
- **MIDI IN/OUT:** For external MIDI control and synchronization.

4. SETUP

4.1 Powering the ACS1

Connect a 9V DC (center negative) power supply with a minimum of 300mA to the power input jack on the left side of the pedal. Ensure the power supply meets these specifications to prevent damage.

4.2 Connecting Your Instrument

- **Mono Setup:** Connect your guitar or the output of your pedalboard to the **MONO (L) IN** jack. Connect the **MONO (L) OUT** jack to your amplifier, mixer, or audio interface.

- **Stereo Setup:** For stereo input, connect your stereo source to both the **MONO (L) IN** and **STEREO (R) IN** jacks. For stereo output, connect the **MONO (L) OUT** and **STEREO (R) OUT** jacks to two separate inputs on your mixer or audio interface.

The ACS1 is designed to be placed at the end of your pedal chain, before your amplifier or directly into a mixer/audio interface, to simulate the full amplifier and cabinet sound.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

Once powered on, the ACS1 will display its current settings. Use the BYPASS footswitch to engage or disengage the effect. The BOOST/PRESET footswitch can be used to cycle through presets or engage a boost, depending on the configured mode.

5.2 Adjusting Amplifier and Cabinet Settings

The top row of knobs (VOL, GAIN, ROOM) and the bottom row of knobs (BASS, MIDDLE, TREBLE) directly control the parameters displayed on the screen. Turning these knobs will adjust the corresponding values.

Figure 4: EQ and Cabinet Selection. This close-up of the ACS1 display shows the Bass, Middle, and Treble EQ settings, along with the selected cabinet (CAB 1) and its type (LONDON). The L+R indicator suggests stereo operation.

Selecting Amp Models and Cabinet IRs:

The display screen allows you to navigate and select different amplifier models and cabinet IRs. Consult the full Walrus Audio manual available on their website for detailed instructions on menu navigation and

parameter selection. The ACS1 comes pre-loaded with six amp models and twelve cabinet IRs.

5.3 Room Simulation

The ROOM knob adjusts the simulated acoustic space around the amplifier and cabinet. This adds depth and realism to your tone. The display will show the current room type and size.

Figure 5: Room Settings Display. This image shows the ACS1 display indicating the "ROOM" parameter, with "TYPE ROOM 2" and "SIZE" visible, allowing users to adjust the simulated room acoustics.

5.4 Presets

The ACS1 supports onboard presets, allowing you to save and recall your favorite settings. The BOOST/PRESET footswitch can be configured to cycle through these presets. Refer to the official Walrus Audio documentation for detailed instructions on saving, loading, and managing presets.

Figure 6: Preset Selection Interface. This display shows the "PRESET" menu, with options for selecting different preset slots (A, B, C) and their corresponding numbers (0, 2).

5.5 Advanced Features (Noise Gate, Output EQ, MIDI)

The ACS1 includes additional features accessible through its menu system:

- **Noise Gate:** Helps to reduce unwanted noise and hum, especially with high-gain settings. Parameters like Threshold and Release can be adjusted.

- **Output EQ:** Provides further tonal shaping options for the overall output.

- **MIDI Control:** The ACS1 supports MIDI for external control of parameters, preset changes, and synchronization with other MIDI-enabled devices.

Figure 7: Noise Gate Settings. This image shows the ACS1 display with the "GATE" menu active, allowing adjustment of "THRESH" (Threshold) and "REL" (Release) parameters for noise reduction.

Figure 8: Main Menu Options. This display shows the main menu, providing access to "PRESET", "ROOM", and "OUT EQ" settings, among others.

5.6 Custom IRs and Firmware Updates

The ACS1 allows users to load their own Impulse Responses (IRs) and update the pedal's firmware. This functionality is managed through the Walrus Audio website. Visit walrusaudio.io for detailed instructions and software tools required for these operations.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the pedal. Do not use abrasive cleaners or solvents.
- **Storage:** Store the pedal in a dry, cool environment away from direct sunlight and extreme temperatures.
- **Cable Care:** Ensure all cables are in good condition and properly connected. Avoid bending cables sharply or placing heavy objects on them.

7. TROUBLESHOOTING

7.1 No Sound Output

- **Check Power:** Ensure the pedal is receiving proper 9V DC power and the power supply is functioning.
- **Cable Connections:** Verify all audio cables are securely connected to the correct input and output jacks.
- **Bypass Status:** Ensure the pedal is not in bypass mode. The BYPASS footswitch LED should indicate the effect is active.
- **Volume Settings:** Check the VOL knob on the ACS1 and the volume settings on your amplifier or mixer.

7.2 Unwanted Noise or Hum

- **Power Supply:** Use a high-quality, isolated power supply. Daisy-chaining power supplies can introduce noise.
- **Ground Loops:** Try isolating power to different pedals or using a ground loop isolator if necessary.
- **Noise Gate:** Engage and adjust the built-in Noise Gate feature to reduce hiss or hum.
- **Cable Quality:** Ensure you are using shielded instrument cables.

7.3 Pedal Not Responding to Controls

- **Power Cycle:** Disconnect and reconnect the power supply to reset the unit.
- **Firmware:** Ensure your firmware is up to date. Check walrusaudio.io for the latest versions.

For further troubleshooting or issues not covered here, please refer to the official Walrus Audio support resources.

8. SPECIFICATIONS

Feature	Specification

Feature	Specification
Model Number	900-1057mkII
Item Weight	12.7 ounces (361 Grams)
Product Dimensions	5.8 x 4.2 x 2.7 inches
Power Source	DC Power Supply
Voltage	9 Volts (DC)
Current Draw	300mA (minimum)
Connector Type	1/4" (6.35mm) TRS Jack, Stereo Audio Socket (SAS)
Hardware Interface	SAS
Signal Format	Analog
Audio Output Effects	Reverb, EQ, Noise Gate, Amp EQ
Controls Type	Knob, Footswitch
First Available	September 25, 2024

9. WARRANTY AND SUPPORT

Walrus Audio products are designed and built to high standards. For information regarding warranty coverage, product registration, and technical support, please visit the official Walrus Audio website or contact their customer service department.

Official Website: walrusaudio.com

Firmware & IR Management: walrusaudio.io

**Related Documents - 900-1057mkII**

[Walrus Audio MAKO Series ACS1 Amp + Cab Simulator User Manual](#)

Detailed guide to the Walrus Audio MAKO Series ACS1 Amp + Cab Simulator, covering amp modes, cabinet simulations, controls, presets, MIDI, and global preferences.

[Walrus Audio ACS1 Amplifier and Cab Simulator User Manual](#)

Comprehensive user manual for the Walrus Audio ACS1, detailing its amplifier and cabinet simulation features, controls, presets, MIDI integration, and software updates for guitarists.
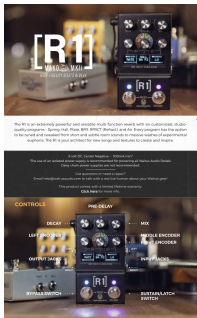
[Walrus Audio R1 High-Fidelity Reverb Pedal - User Manual](#)

Detailed user manual for the Walrus Audio R1 High-Fidelity Reverb pedal. Covers programs, controls, presets, MIDI integration, and technical specifications.
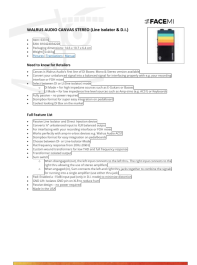
[Walrus Audio Canvas Stereo: Line Isolator & DI Box](#)

Discover the Walrus Audio Canvas Stereo, a passive line isolator and direct injection device designed to convert unbalanced signals to balanced signals for seamless integration with recording interfaces or front-of-house mixers. Learn about its DI and LI modes, features, and troubleshooting.

[Walrus Audio Mako D1 High-Fidelity Stereo Delay Pedal - Instruction Manual](#)

Comprehensive instruction manual for the Walrus Audio Mako D1 High-Fidelity Stereo Delay pedal, detailing its features, controls, five custom tuned programs (Digital, Mod, Vintage, Dual, Reverse), MIDI integration, preset management, and user-editable preferences.

[Walrus Audio M1 MKII High-Fidelity Stereo Modulation Effects Pedal User Manual](#)

Comprehensive guide to the Walrus Audio M1 MKII High-Fidelity Stereo Modulation Effects Pedal, covering its six studio-quality programs (Chorus, Phaser, Tremolo, Vibrato, Rotary, Filter), controls, presets, MIDI, and technical specifications.