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Seismic Audio SA-MA8C

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Model: SA-MA8C

INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Seismic Audio SA-MA8C 8-Channel 400 Watt Powered PA Head Mixer. Please read this manual thoroughly before operating the unit to ensure optimal performance and to prevent damage.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

PRODUCT OVERVIEW

The Seismic Audio SA-MA8C is an 8-channel powered PA head mixer designed for versatile audio applications. It features 400 watts of power, built-in Bluetooth, USB/SD playback, and an echo effect generator. Each channel includes individual Bass, Treble, Level, and Effects controls.

Key Features:

- 8 Input Channels (XLR and 1/4" TRS per channel)
- 400 Watts RMS at 4 ohm (200 Watts RMS at 8 ohm)
- Integrated Bluetooth, USB, and SD Card Player
- Built-in Echo Effect Generator with adjustable Time and Repeat
- Individual Bass, Treble, Level, and Effects controls for each channel
- Master Volume Controls
- 5-Band Graphic Equalizer for Master Channel
- RCA L/R Input and Output
- Dual 1/4" Speaker Outputs (4 Ohm)
- Class AB Amplifier with Built-In Cooling Fan

Front Panel Controls and Connections:



Image 1: Front Panel Layout

This image displays the front panel of the SA-MA8C mixer. It features eight input channels, each with Bass, Treble, Level, and Effect controls, along with XLR and 1/4" inputs. On the right, the USB/SD digital player with Bluetooth, a graphic equalizer, digital delay controls, master volume, and various input/output jacks are visible. The power switch is located at the bottom right.

- **Channels 1-8:** Each channel features an XLR input for microphones, a 1/4" TRS input for line-level signals, and individual knobs for Bass, Treble, Effect (send to internal echo), and Level (volume).
- **USB/SD Digital Player:** Includes a display, control buttons (play/pause, skip, mode), USB port, and SD card slot for

media playback. Supports Bluetooth connectivity.

- **Graphic Equalizer:** A 5-band equalizer (100 Hz, 500 Hz, 1 kHz, 2.5 kHz, 10 kHz) for adjusting the overall tone of the master output.
- **Digital Delay:** Controls for Time and Repeat of the built-in echo effect.
- **Line In:** 1/4" input for additional line-level sources.
- **Tape In/Out:** RCA L/R jacks for connecting external recording or playback devices.
- **Sub Out:** RCA output for connecting to a subwoofer or external amplifier.
- **Master Volume:** Controls the overall output level of the mixer.
- **Power Switch:** Turns the unit on or off.

Rear Panel Connections:



You won't have to compromise on audio quality with the Seismic Audio Speakers 8 Channel Powered PA Head Mixer with Bluetooth!

Image 2: Rear Panel Layout

This image shows the rear panel of the SA-MA8C mixer. It features the AC power input, a fuse holder, and two 1/4" speaker output jacks.

- **AC Power Input:** Connect the provided power cord here.
- **Fuse Holder:** Contains the main fuse for the unit.

- **Speaker Outputs:** Two 1/4" jacks for connecting passive speakers. These outputs are rated for 4 Ohm minimum impedance.

SETUP GUIDE

1. **Unpacking:** Carefully remove the mixer from its packaging. Retain all packaging materials for future transport or storage. Inspect the unit for any signs of damage.
2. **Placement:** Place the mixer on a stable, flat surface. Ensure adequate ventilation around the unit to prevent overheating. Do not block the cooling fan vents.
3. **Power Connection:**
 - Ensure the mixer's power switch is in the "OFF" position.
 - Connect the provided AC power cord to the AC Power Input on the rear panel of the mixer.
 - Plug the other end of the power cord into a grounded electrical outlet (120VAC 50/60Hz or 230VAC 50/60Hz, depending on your region).
4. **Speaker Connection:**
 - Connect your passive speakers to the 1/4" Speaker Outputs on the rear panel.
 - Ensure the total impedance of the connected speakers is not less than 4 Ohms. Connecting speakers with lower impedance can damage the amplifier.
 - Use high-quality speaker cables for optimal sound transmission.
5. **Input Connections:**
 - **Microphones:** Connect microphones to the XLR inputs on the desired channels.
 - **Instruments/Line-Level Devices:** Connect instruments (e.g., keyboards, guitars with preamps) or other line-level audio devices to the 1/4" TRS inputs on the desired channels.
 - **External Playback Devices (RCA):** Connect CD players, media players, or other devices to the RCA L/R Input jacks.
 - **Additional Line Input (1/4"):** Use the dedicated 1/4" Line In jack for another line-level source if needed.

OPERATING INSTRUCTIONS

1. **Powering On:**
 - Before powering on, ensure all channel Level knobs and the Master Volume knob are set to their minimum (fully counter-clockwise) positions.
 - Flip the Power Switch to the "ON" position. The power indicator light will illuminate.
2. **Adjusting Channel Levels:**
 - For each active input channel, gradually increase the channel's Level knob while speaking into the microphone or playing the instrument.
 - Adjust the Bass and Treble knobs for each channel to achieve the desired tonal balance.
 - Use the Effect knob on each channel to send a portion of that channel's signal to the internal echo effect generator.
3. **Master Volume and EQ:**
 - Once individual channel levels are set, slowly increase the Master Volume knob to achieve the desired overall output level.
 - Use the 5-band Graphic Equalizer to fine-tune the overall frequency response of the mix to suit the room acoustics or your preference.

4. Using the USB/SD Digital Player:

- **USB/SD Playback:** Insert a USB drive or SD card containing audio files into the respective slot. The player will typically begin playback automatically. Use the control buttons (Play/Pause, Skip) to manage playback.
- **Bluetooth Connectivity:**
 - a. Press the "MODE" button on the digital player until "Bluetooth" is selected. The display will indicate pairing mode.
 - b. On your Bluetooth-enabled device (e.g., smartphone, tablet), search for available devices and select "SA-MA8C" (or similar name).
 - c. Once paired, you can stream audio from your device to the mixer. Adjust the CD/TAPE Volume Control to set the playback level.

5. Using the Echo Effect:

- Adjust the "TIME" knob to control the delay time of the echo.
- Adjust the "REPEAT" knob to control the number of echo repetitions.
- Use the individual channel "EFFECT" knobs to send signal to the echo processor.

6. Powering Off:

- Before powering off, turn down all channel Level knobs and the Master Volume knob to their minimum positions.
- Flip the Power Switch to the "OFF" position.

MAINTENANCE

- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth to wipe the exterior of the unit. Do not use liquid cleaners, abrasive cleaners, or solvents.
- **Ventilation:** Ensure that the ventilation openings are kept clear of dust and debris to maintain proper cooling.
- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to use the original packaging for storage and transport.
- **Fuse Replacement:** If the unit does not power on, check the fuse located on the rear panel. Replace it only with a fuse of the same type and rating (6 Amp/250 Volt T1 Fuse). Refer servicing to qualified personnel if the issue persists.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord not connected; Power switch off; Blown fuse; Power outlet malfunction.	Ensure power cord is securely connected. Turn power switch ON. Check and replace fuse if necessary (6 Amp/250 Volt T1). Test power outlet with another device.
No sound output	Master Volume too low; Speaker cables disconnected/faulty; Speakers not connected; Channel Level too low; Input device not working.	Increase Master Volume. Check speaker cable connections. Ensure speakers are connected. Increase relevant Channel Level. Verify input device is functioning and connected correctly.
Distorted sound	Input signal too high (clipping); Channel Level too high; Master Volume too high; Faulty cable/speaker.	Reduce input signal level. Lower Channel Level. Lower Master Volume. Test with different cables and speakers.
Bluetooth not connecting	Mixer not in Bluetooth mode; Device too far; Device already paired with another unit; Interference.	Press MODE button to select Bluetooth. Ensure device is within range. Disconnect device from other Bluetooth units. Reduce interference sources.
Echo effect not working	Channel Effect knob too low; Digital Delay Time/Repeat set to minimum.	Increase the Effect knob on the desired channel. Adjust Digital Delay Time and Repeat knobs.

SPECIFICATIONS



Image 3: Product Dimensions

This image illustrates the physical dimensions of the SA-MA8C mixer, showing a width of 20.66 inches, a depth of 10.75 inches, and a height of 10 inches.

Feature	Detail
Model	SA-MA8C
Channels	8
Power Rating	200 Watts RMS at 8 ohm 400 Watts RMS at 4 ohm
Amplifier Type	Class AB with Built-In Cooling Fan
Connectivity	Bluetooth, USB, SD Card
Inputs	8 x XLR, 8 x 1/4" TRS, RCA L/R, 1/4" Line In
Outputs	RCA L/R, 2 x 1/4" Speaker Outputs (4 Ohm minimum)
Effects	Built-in Echo Effect Generator (adjustable Time & Repeat)
Equalization	Channel EQ: High (+/- 15dB @ 12kHz), Low (+/- 15dB @ 80Hz) Master EQ: 5-Band Graphic (100 Hz, 500 Hz, 1kHz, 2.5kHz, 10kHz +/- 12dB)
Digital Time Delay	140 - 342ms
Frequency Response	20Hz - 20kHz +1dB/-3dB @ 1 W Output to 8 Ohm Speaker
Total Harmonic Distortion (THD)	<1% @ 20Hz - 20kHz for 100 Watt Output to 4 Ohm Speaker
Input Impedance	Mic: 2K Ohm Balanced; 1K Ohm Unbalanced Line: 10K Ohm Tape In: 47K Ohm
Power Source	120VAC 50/60Hz or 230VAC 50/60Hz
Fuse	6 Amp/250 Volt T1
Dimensions (L x W x H)	20.66" x 10.75" x 10"
Weight	18.8 lbs (Product Weight: 17.36 lbs)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Seismic Audio website. Keep your proof of purchase for any warranty claims.

