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Yamaha EMX5

Yamaha EMX5 12-input Stereo Powered Mixer User Manual

Model: EMX5

INTRODUCTION

This manual provides essential information for the safe and effective use of your Yamaha EMX5 12-input Stereo Powered Mixer. The EMX5 integrates a mixer and a power amplifier into a single, portable unit, designed for various sound reinforcement applications. It features DSP effects, output EQ, and feedback suppression.

SAFETY INFORMATION

Always read and follow all instructions carefully. Keep this manual in a safe place for future reference. Observe all warnings on the product and in the manual. Do not expose the unit to rain or moisture. Do not block ventilation openings. Refer all servicing to qualified service personnel.

COMPONENT IDENTIFICATION

Familiarize yourself with the various controls and connectors on the EMX5 mixer.



Figure 1: Top-down view of the Yamaha EMX5 powered mixer. This image displays the full control panel, including input channels (1-12), master section, amplifier controls, and various input/output jacks.



Figure 2: Angled view of the Yamaha EMX5 powered mixer. This perspective shows the integrated side handles for portability and the robust casing.

SETUP

1. Power Connection

- Ensure the power switch is in the OFF position before connecting the power cord.

- Connect the supplied power cord to the AC IN connector on the rear panel and then to a suitable AC outlet.

2. Speaker Connection

- Connect your passive speakers to the SPEAKER OUT jacks on the EMX5. Ensure the impedance of your speakers matches the amplifier's specifications (e.g., 4Ω or 8Ω).
- For optimal performance, use high-quality speaker cables.

3. Input Connections

The EMX5 features 12 input channels. Channels 1-4 are equipped with combo jacks (XLR/TRS) for microphones or line-level devices. Channels 5/6 through 11/12 offer various input options.

- **Microphones:** Connect microphones to the XLR inputs on channels 1-4. If using condenser microphones, activate +48V phantom power via the dedicated switch.
- **Line-Level Devices:** Connect instruments (keyboards, guitars with preamps), CD players, or other audio devices to the TRS or RCA inputs.
- **High-Impedance Input:** Channel 4 features a Hi-Z switch for direct connection of passive guitars or basses.



Figure 3: Detailed view of the input/output section. This image highlights the microphone/line inputs, stereo inputs, and various send/return jacks.

OPERATING INSTRUCTIONS

1. Basic Operation

1. **Power On:** After all connections are made, turn on the EMX5 power switch.
2. **Input Gain:** Adjust the GAIN knob for each channel to achieve an optimal input level. The PEAK indicator should flash only occasionally.
3. **Channel EQ:** Use the HIGH, MID, and LOW knobs to adjust the tonal balance of each input channel.

4. **Channel Level:** Adjust the LEVEL knob for each channel to set its volume within the mix.
5. **Master Level:** Use the MASTER LEVEL control to adjust the overall output volume.

2. DSP Effects (SPX Effects)

The EMX5 includes a built-in SPX multi-effect processor. To apply effects:

- Select an effect program using the PROGRAM knob and display.
- Adjust the PARAMETER knob to fine-tune the selected effect.
- Use the FX RTN LEVEL knob to control the overall volume of the effects return.
- Use the FX ON switch to engage or disengage the effects.

3. Feedback Suppression

The EMX5 features a Feedback Suppressor function to automatically detect and eliminate feedback. Activate this function via the dedicated switch in the AMPLIFIER section.

4. Output EQ

Adjust the MONITOR EQ and MASTER EQ controls to fine-tune the overall sound for your monitor and main outputs, respectively.

MAINTENANCE

- **Cleaning:** Wipe the unit with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure ventilation openings are clear of dust and debris to prevent overheating.
- **Storage:** Store the mixer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Transportation:** When transporting, use appropriate cases or covers to protect the unit from physical damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speakers	Power not connected or switched on. Master LEVEL or channel LEVEL knobs are down. Speaker cables not connected correctly. Input source not connected or turned on.	Check power connection and switch. Increase MASTER LEVEL and relevant channel LEVEL. Verify speaker cable connections. Check input source power and connections.
Feedback (howling sound)	Microphone too close to speakers. Input GAIN too high. Feedback Suppressor not active.	Reposition microphone or speakers. Reduce input GAIN for the affected channel. Activate Feedback Suppressor.
Distorted sound	Input GAIN too high (PEAK indicator constantly lit). Master LEVEL too high. Speaker impedance mismatch.	Reduce input GAIN. Reduce MASTER LEVEL. Verify speaker impedance compatibility.

SPECIFICATIONS

Feature	Detail
Model	EMX5
Number of Channels	12
Power Output	2x 630W @ 4Ω
Item Weight	22.4 pounds
Product Dimensions	22.4 x 14.7 x 15.7 inches
Connectivity Technology	Auxiliary
Power Source	Corded Electric
DSP Effects	SPX Effects
Additional Features	Output EQ, Feedback Suppression

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Yamaha website or contact your authorized Yamaha dealer. Specific warranty terms may vary by region and purchase date.

Online Resources: www.yamaha.com