XTUGA CT120S

XTUGA CT-120S USB Professional Stage Audio Mixer User Manual

Model: CT120S

1. Introduction

This manual provides detailed instructions for the operation, setup, and maintenance of your XTUGA CT-120S USB Professional Stage Audio Mixer. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.



Figure 1: XTUGA CT-120S USB Professional Stage Audio Mixer. This image shows the full front panel of the mixer, displaying all channels, controls, faders, and input/output sections.

2. Key Features

The XTUGA CT-120S mixer is designed for professional audio applications, offering a range of features for versatile sound control:

- 12 channels with XLR and Line inputs for diverse audio sources.
- XLR inputs include gain trim, switchable high-pass filters, and 48V phantom power for condenser microphones.
- Each channel features GAIN, 3-band EQ (High, Mid, Low), AUX, EFFECT, PAN control knobs, and individual volume control faders.
- Integrated USB MP3 input interface with LCD display for direct audio playback from U-Disk/MP3 players.
- PEL (Pre-Fader Listen) switch for monitoring individual channels.
- AUX send & return jacks for connecting external effects processors.
- XLR (L/R) and 1/4" (L/R) stereo output jacks, along with REC (L/R) and headset interfaces.
- Power and output level indicator lights for visual monitoring.
- Master section controls for EFFECT level, output MAIN faders, REPEAT, EFF SEND, DELAY, SEND, and RETURN.
- Ultra-thin all-metal chassis design for durability and portability.



Figure 2: Detailed view of the 12 input ports, highlighting the 48V phantom power supply and 3-band mono equalization design (High, Mid, Low) available on each channel.

3. Setup and Connections

Before operating the mixer, ensure all connections are made correctly and securely. Refer to the diagrams below for typical setup configurations.

3.1 Power Connection

Connect the provided power adapter to the mixer's power input and then to a suitable AC power outlet (100-240V AC, 50/60Hz). Ensure the mixer's power switch is in the OFF position before connecting power.

3.2 Input Connections

The CT-120S features 12 input channels, each with XLR and 1/4" LINE inputs. Use XLR inputs for microphones and 1/4" LINE inputs for instruments or other line-level devices.

- **Microphones:** Connect dynamic or condenser microphones to the XLR inputs. For condenser microphones, activate the 48V phantom power switch located on the mixer's master section.
- **Instruments/Line Devices:** Connect keyboards, guitars (via DI box), or other audio devices to the 1/4" LINE inputs.

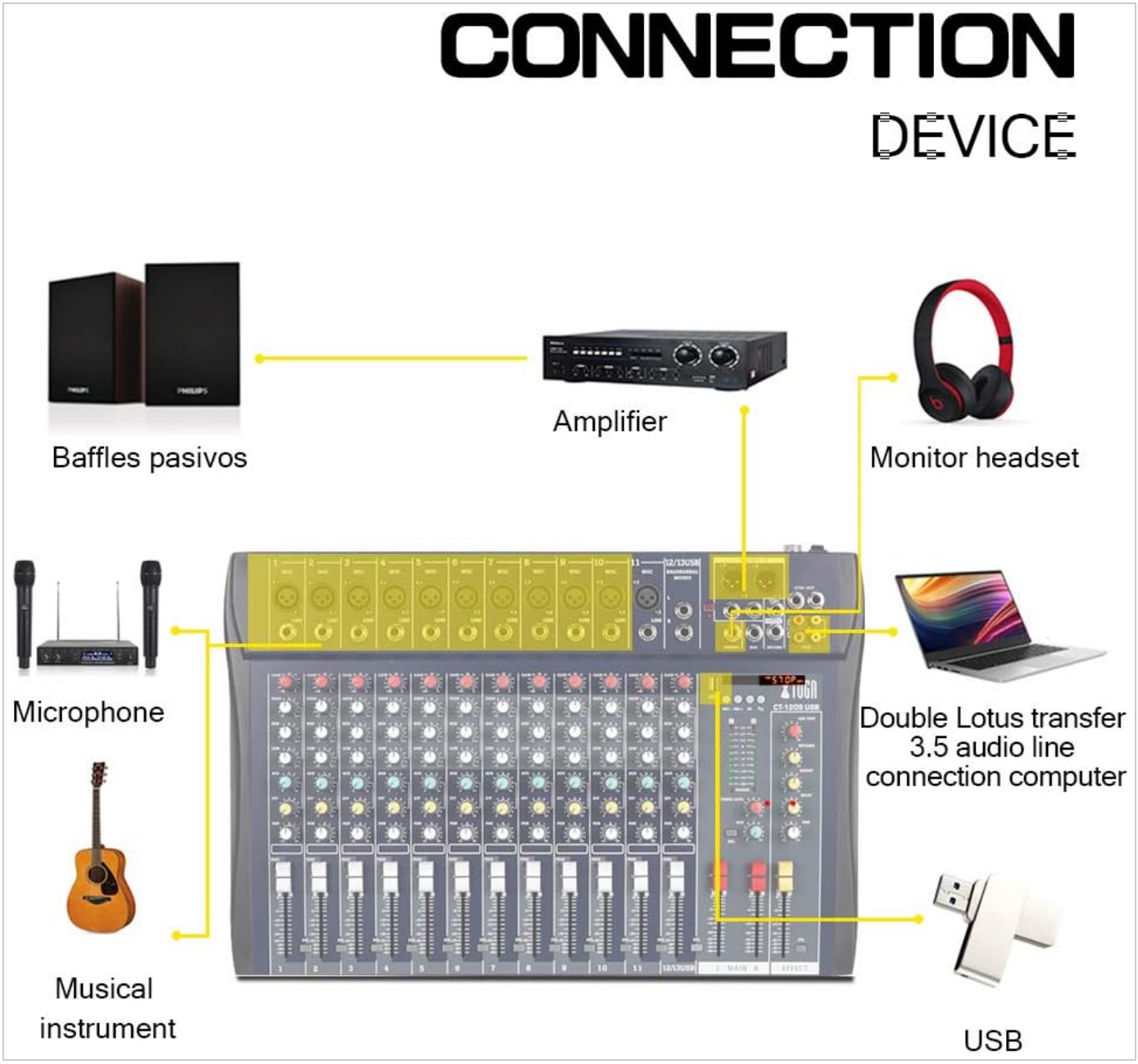


Figure 3: Connection diagram illustrating various devices connected to the mixer, including microphones, musical instruments, an amplifier, monitor headset, and a computer via a 3.5mm audio line.



Figure 4: Comprehensive connection overview showing the mixer as the central hub for various audio equipment such as wireless microphones, electronic musical instruments, amplifiers, wired microphones, mobile phones/computers, and stereo speakers.

3.3 Output Connections

- **Main Outputs:** Connect your main speakers or power amplifier to the XLR (L/R) or 1/4" (L/R) stereo output jacks.
- **Headset:** Plug your monitoring headphones into the dedicated headset jack.
- **Recording Outputs:** Use the REC (L/R) interfaces to connect to a recording device.

4. Operating Instructions

This section details the functions of the mixer's controls and how to operate them for optimal audio mixing.

4.1 Channel Controls

Each of the 12 channels features the following controls:

- **GAIN:** Adjusts the input sensitivity for the connected microphone or line-level device. Set this to achieve a strong signal without clipping.

- **3-Band EQ (HIGH, MID, LOW):** Controls the equalization for high, mid, and low frequencies.
    - **HIGH:** Adjusts frequencies above 12kHz (±15dB boost/cut).
    - **MID:** Sweeps frequencies from 250Hz to 6kHz (±15dB boost/cut).
    - **LOW:** Adjusts frequencies below 80Hz (±15dB boost/cut).

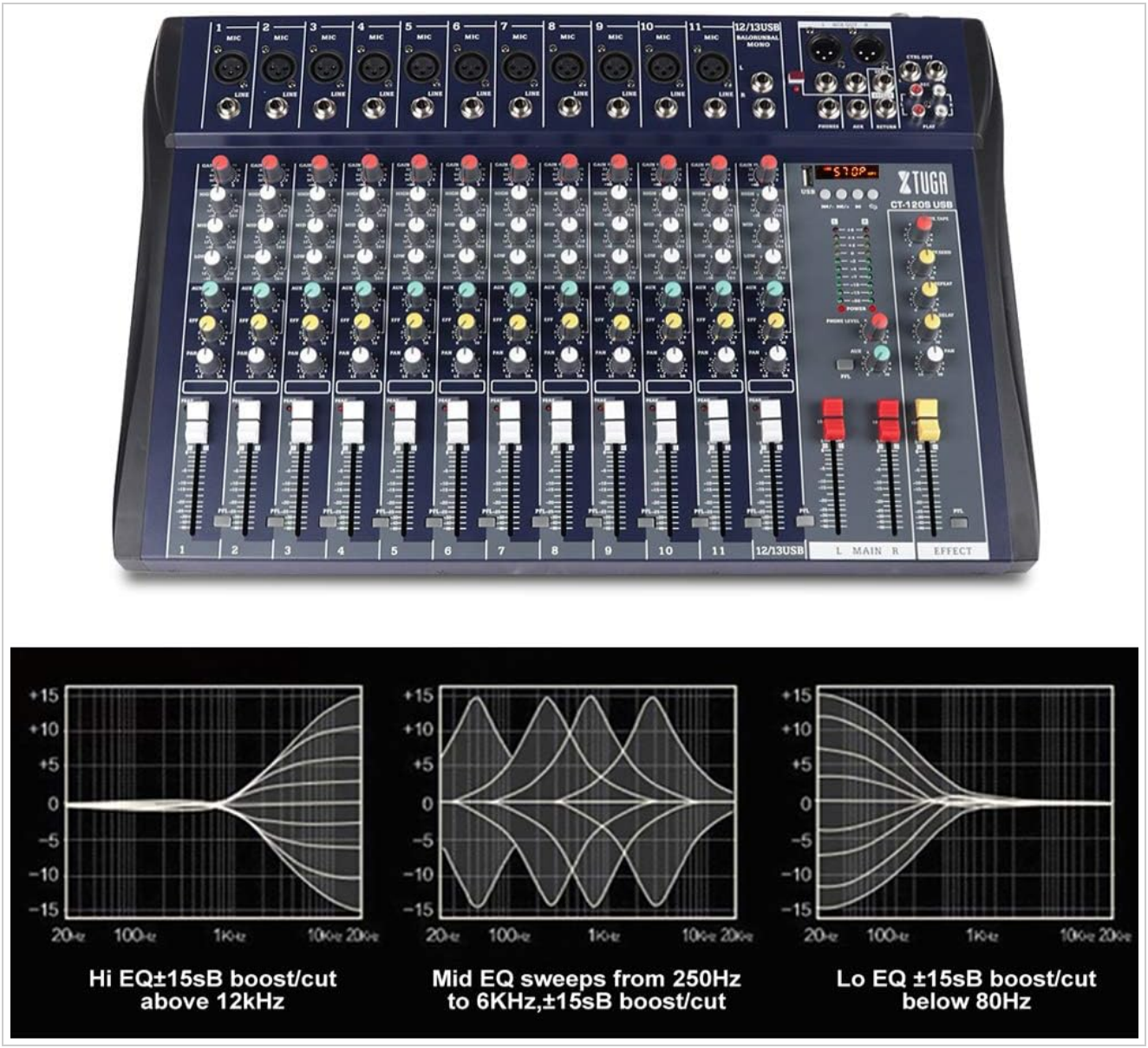


Figure 5: Graphical representation of the 3-band EQ curves, showing the frequency response for High, Mid, and Low adjustments.

- **AUX:** Sends a portion of the channel's signal to the auxiliary output, typically used for monitor mixes.
- **EFFECT:** Sends a portion of the channel's signal to the internal effects processor or external effects unit via the AUX send.
- **PAN:** Adjusts the stereo position of the channel's signal (left to right).
- **PEL (Pre-Fader Listen):** Activates pre-fader monitoring for the channel, allowing you to listen to the signal before it reaches the main mix.
- **Channel Fader:** Controls the individual volume level of the channel in the main mix.
- **Peak Indicator:** Lights up when the channel's signal is too high, indicating potential clipping. Adjust GAIN to prevent this.

4.2 Master Section Controls

The master section provides overall control for the mixer's output and effects:

- **EFFECT Level:** Adjusts the overall level of the internal effects.
- **MAIN Faders (L/R):** Controls the overall output volume of the stereo main mix.
- **REPEAT, EFF SEND, DELAY, SEND, RETURN:** Controls for the built-in digital effects processor and external effects loop.
- **USB Input Interface:** Allows playback of audio files from a USB drive. Use the LCD display and control buttons to navigate and play tracks.

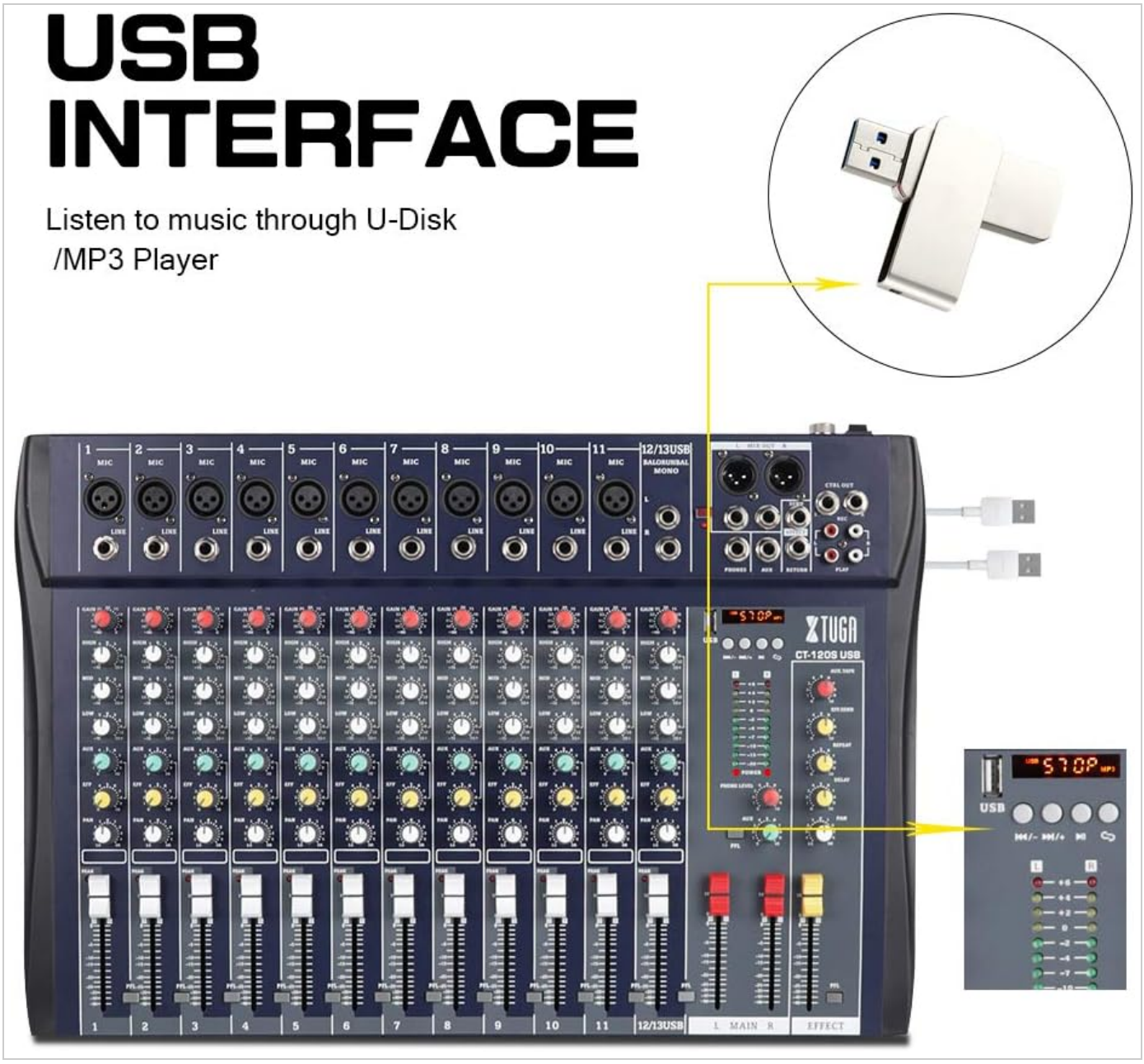


Figure 6: Illustration of the USB input interface, demonstrating how to connect a U-Disk or MP3 player for direct audio playback.



Figure 7: Close-up view of the main level meters and faders, showing the visual indicators for output levels and the physical controls for precise volume adjustments.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your XTUGA CT-120S mixer.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the mixer. Avoid using abrasive cleaners, solvents, or waxes.
- **Dust Protection:** Keep the mixer covered when not in use to prevent dust accumulation, especially in fader and knob areas.
- **Storage:** Store the mixer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure proper ventilation around the mixer to prevent overheating. Do not block ventilation openings.
- **Cable Management:** Organize cables neatly to prevent strain on connectors and accidental disconnections.

6. Troubleshooting

If you encounter issues with your XTUGA CT-120S mixer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power adapter not connected; power outlet faulty; mixer power switch off.	Ensure power adapter is securely connected. Test power outlet with another device. Turn mixer power switch ON.
No sound output	Main faders down; input gain too low; incorrect cable connections; speakers/amplifier off or faulty.	Raise MAIN faders. Increase channel GAIN. Check all audio cable connections. Verify speakers/amplifier are powered on and functioning.
Distorted sound	Input gain too high (clipping); faulty cable; damaged speaker.	Reduce channel GAIN until peak indicator light no longer flashes. Replace suspected faulty cables. Test with different speakers.
No sound from a specific channel	Channel fader down; GAIN too low; input device off/faulty; incorrect input selected.	Raise channel fader. Increase channel GAIN. Check input device (microphone, instrument). Ensure correct input (XLR/LINE) is used.
USB playback not working	USB drive not inserted correctly; unsupported file format; corrupted files.	Re-insert USB drive. Ensure files are in a supported format (e.g., MP3). Try a different USB drive or files.

If the problem persists after attempting these solutions, please contact XTUGA customer support for further assistance.

7. Technical Specifications

Feature	Specification
Brand	XTUGA
Model	CT120S-USB
Color	Black
Material	Metal
Number of Channels	12
Power Adapter Input	100-240V AC 50/60Hz 0.23A
Power Adapter Output	±15V DC, ⁻48V DC
Item Dimensions (Approx.)	34 x 52 x 4 cm (13.4 x 20.5 x 1.6 inches)
Item Weight (Approx.)	4.7 kg (10.4 lbs)
Connectivity Technology	Auxiliary, USB, XLR
Audio Input	Auxiliary, USB, XLR
Output Connector Type	Auxiliary, XLR
UPC	699988083619

8. Package Contents

The XTUGA CT-120S package includes the following items:

- 1 x XTUGA CT-120S Mixing Console
- 1 x Power Adapter (US Plug)
- 1 x User Manual (English)

9. Warranty and Support

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official XTUGA website. Keep your purchase receipt as proof of purchase for any warranty claims.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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