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Clarion EQS755

Clarion EQS755 7-Band Graphic Equalizer User Manual

Model: EQS755 | Brand: Clarion

1. Introduction

The Clarion EQS755 is a 1/2-DIN chassis graphic equalizer designed for car audio systems. It features a built-in low-pass filter and a full-featured 7-band graphic equalizer, providing precise control over the audio spectrum. Users can adjust frequencies in the 50 Hz to 16 kHz range across seven distinct bands, allowing for detailed sound contouring to match personal musical preferences and optimize system performance. This unit enhances your car audio experience by offering advanced sound customization capabilities.

2. Key Features

- **1/2-DIN Chassis Design:** Compact size for easy integration into various vehicle dashboards.
- **7-Band Graphic Equalizer:** Offers precise frequency adjustments at 50Hz, 125Hz, 315Hz, 750Hz, 2.2Khz, 6Khz, and 16Khz for detailed sound shaping.
- **Built-in Low-Pass Filter:** Selectable at 60Hz or 90Hz with a 12dB slope, ideal for optimizing subwoofer performance.
- **Multiple Inputs:** Includes a 3.5mm front auxiliary input and a 2-channel RCA auxiliary input with variable gain adjustments.
- **High-Level Speaker Inputs:** Allows connection to factory or aftermarket head units without RCA outputs.
- **6-Channel/8-Volt RCA Outputs:** Provides high-voltage outputs for front, rear, and subwoofer channels, ensuring clean signal delivery to amplifiers.
- **Independent Controls:** Features separate master volume and subwoofer level controls, along with a fader control.
- **Blue Illumination:** Enhances visibility and aesthetic appeal in low-light conditions.
- **Ground Loop Isolation Circuit:** Helps to minimize unwanted noise and interference for clearer audio.

3. Setup and Installation

Proper installation is crucial for optimal performance and safety. It is highly recommended that installation be performed by a qualified car audio professional. Incorrect wiring or mounting can lead to damage to the unit, vehicle, or personal injury.

3.1. Pre-Installation Checklist

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all necessary tools and wiring are available.
- Choose a mounting location that is secure, well-ventilated, and does not obstruct vehicle operation or safety features.

3.2. Wiring Connections

The EQS755 requires power, ground, and remote turn-on connections. Audio signals can be connected via RCA inputs (main or auxiliary) or high-level speaker inputs. Outputs are provided via RCA for front, rear, and subwoofer channels.

- **Power (Yellow Wire):** Connect to a constant +12V source.
- **Ground (Black Wire):** Connect to a clean, unpainted metal surface of the vehicle chassis.
- **Remote Turn-On (Blue Wire):** Connect to the remote output of your head unit or a switched +12V source.
- **Audio Inputs:** Connect your head unit's RCA outputs to the EQS755's MAIN IN RCA inputs. Alternatively, use the AUX IN RCA inputs or the HI INPUT speaker level inputs for sources without RCA outputs.
- **Audio Outputs:** Connect the EQS755's FRONT OUT, REAR OUT, and SUB OUT RCA outputs to the corresponding inputs on your amplifiers.

3.3. Mounting

Secure the EQS755 unit using the provided mounting hardware. Ensure it is mounted in a location that allows for easy access to controls and proper ventilation.

4. Operating Instructions

The Clarion EQS755 provides intuitive controls for fine-tuning your audio system. Familiarize yourself with each control to achieve your desired sound.

4.1. Control Functions

- **Master Volume:** Adjusts the overall output level of the equalizer.
- **Subwoofer Level Control:** Independently adjusts the output level of the subwoofer channel.
- **Fader Control:** Balances the audio output between the front and rear channels.
- **7-Band Equalizer Sliders:** Adjust the gain for each frequency band (50Hz, 125Hz, 315Hz, 750Hz, 2.2Khz, 6Khz, 16Khz) to boost or cut specific frequencies.
- **Low-Pass Frequency Switch (60Hz/90Hz):** Selects the cutoff frequency for the built-in low-pass filter, primarily affecting the subwoofer output.
- **AUX IN / MAIN IN Switch:** Selects between the main RCA input and the auxiliary RCA/3.5mm inputs.
- **AUX Gain:** Adjusts the input sensitivity for the auxiliary inputs.

4.2. Sound Adjustment Tips

- Start with all equalizer bands set to flat (center position).
- Adjust the master volume to a comfortable listening level.
- Gradually adjust individual frequency bands to enhance or reduce specific audio characteristics. For example, boost lower frequencies (50Hz, 125Hz) for more bass, or higher frequencies (6Khz, 16Khz) for more treble clarity.
- Use the subwoofer level control to blend the bass output with the rest of your system.
- Experiment with the low-pass filter settings (60Hz or 90Hz) to find the best integration with your subwoofer and main speakers.

5. Maintenance

The Clarion EQS755 is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to wipe the unit. Avoid abrasive cleaners, solvents, or strong detergents, as they may damage the finish or controls.
- **Ventilation:** Ensure the unit's ventilation openings are not blocked to prevent overheating.
- **Liquid Exposure:** Keep the unit away from liquids. In case of accidental liquid exposure, immediately disconnect power and consult a qualified technician.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive dust.

6. Troubleshooting

If you experience issues with your EQS755, refer to the following common troubleshooting steps before seeking professional service:

6.1. No Power / Unit Not Turning On

- Check the power, ground, and remote turn-on connections. Ensure they are secure and correctly wired.
- Verify that the vehicle's battery has sufficient charge.
- Check any inline fuses on the power wire.

6.2. No Sound Output

- Confirm that the input source (head unit, auxiliary device) is playing audio and its volume is up.
- Check all RCA audio connections between the head unit, EQS755, and amplifiers.
- Ensure the EQS755's Master Volume is turned up and the Fader control is correctly set.
- Verify that the correct input (AUX IN or MAIN IN) is selected on the EQS755.
- If using high-level inputs, ensure they are correctly connected and the input gain is adjusted.

6.3. Distorted Sound / Noise

- Check for proper grounding of the EQS755 and all other audio components. A poor ground connection is a common cause of noise.
- Ensure RCA cables are not routed near power cables to avoid interference.
- Adjust the input gain settings on the EQS755 and your amplifiers to prevent clipping.
- Verify that the equalizer bands are not set to extreme boost levels, which can cause distortion.
- The EQS755 features a ground loop isolation circuit, but if noise persists, consider an external ground loop isolator.

7. Specifications

Feature	Specification
Model Number	EQS755
Chassis Type	1/2-DIN

Equalizer Bands	7-Band Graphic Equalizer
Frequency Adjustment Range	50Hz, 125Hz, 315Hz, 750Hz, 2.2Khz, 6Khz, 16Khz
RCA Outputs	6-Channel (Front, Rear, Subwoofer) / 8-Volt
Auxiliary Inputs	Front 3.5mm, Rear 2-Channel RCA with variable gain
Speaker Inputs	High Level Speaker Inputs
Low-Pass Filter	Selectable 12dB (60Hz or 90Hz)
Illumination	Blue
Dimensions (W x L x H)	7" x 4.25" x 1" (17.78 cm x 10.8 cm x 2.54 cm)
Weight	1.6 Pounds (0.73 kg)
Voltage	8V (Output)
Batteries Required	1 9V batteries required (Note: This specification might be a data entry error as car audio equalizers typically do not use 9V batteries for operation. It might refer to a remote control if included, but none is mentioned. Please refer to the official product manual for clarification.)
Manufacturer	Clarion Corporation of America

8. What's in the Box

- Clarion EQS755 7-Band Graphic Equalizer Unit
- Wiring Harness
- Mounting Hardware
- User Manual (This document)

9. Product Images



Figure 9.1: Front view of the Clarion EQS755 7-Band Graphic Equalizer, shown alongside its included wiring harness. This image highlights the compact design and the blue illuminated controls.

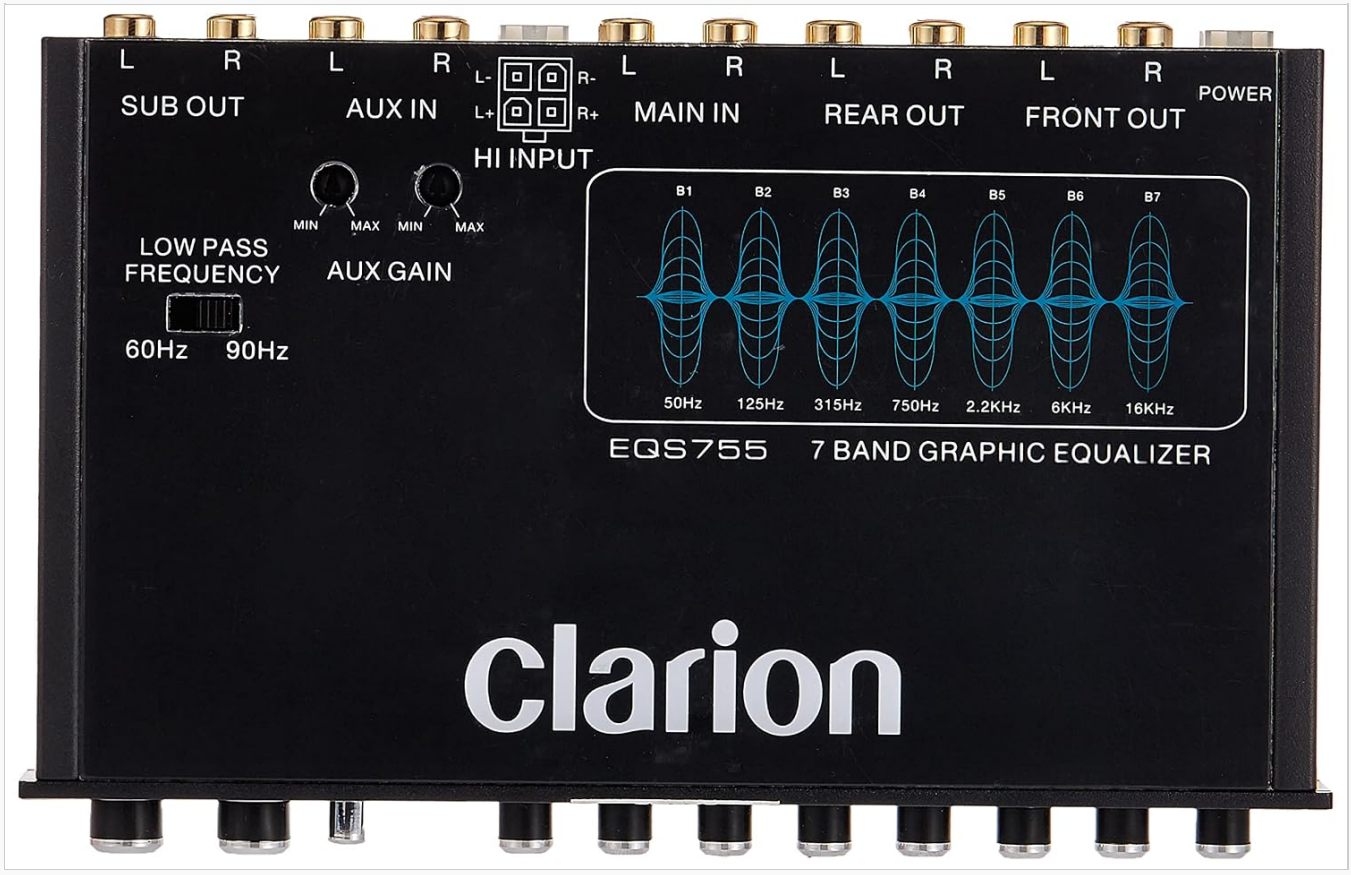


Figure 9.2: Top-down view of the Clarion EQS755, clearly displaying the 7-band equalizer sliders, master volume, subwoofer level, fader, and input selection controls. The input/output labels are visible.



Figure 9.3: Angled view of the Clarion EQS755, providing a clear look at the rear panel with its RCA inputs (MAIN IN, AUX IN) and outputs (FRONT OUT, REAR OUT, SUB OUT), as well as the power connection port.



Figure 9.4: Side view of the Clarion EQS755 with approximate dimensions indicated, showing its compact profile suitable for various installation spaces.

10. Official Product Videos

No official product videos from the seller are available for this model at this time. Please refer to the written instructions and diagrams for setup and operation.

11. Warranty and Support

For warranty information and technical support, please refer to the official Clarion website or contact Clarion customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

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