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CT Sounds CT-7EQ

CT Sounds CT-7EQ 7-Band Parametric Car Audio Equalizer Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your CT Sounds CT-7EQ 7-Band Parametric Car Audio Equalizer. Please read this manual thoroughly before using the product to ensure proper function and longevity.

The CT-7EQ is designed to enhance your car audio experience by providing precise control over various frequency segments, allowing for a customized sound profile.

PRODUCT OVERVIEW

The CT Sounds CT-7EQ is a 7-band 1/2 DIN parametric car audio equalizer. It features adjustable frequency bands and multiple input/output options for comprehensive audio system integration.

Key Features:

- 7-band parametric equalization for precise audio tuning.
- Adjustable frequency bands: 50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 6KHz, 12KHz.
- Frequency Response: 25Hz-50KHz.
- Output Level: +16dB.
- Signal Separation: >60dB.
- Bass, Mid, and Treble Adjustments: ± 10 dB.
- Sub Bass Frequencies: 43Hz & 60Hz.
- Multiple input options including High-in, Main-in (RCA), and Aux.
- Multiple output options: Sub Out, Rear Out, Front Out.
- 10V Line Driver for subwoofer output.
- Compact 1/2 DIN size for flexible installation.



Figure 1: Front and top view of the CT Sounds CT-7EQ equalizer.

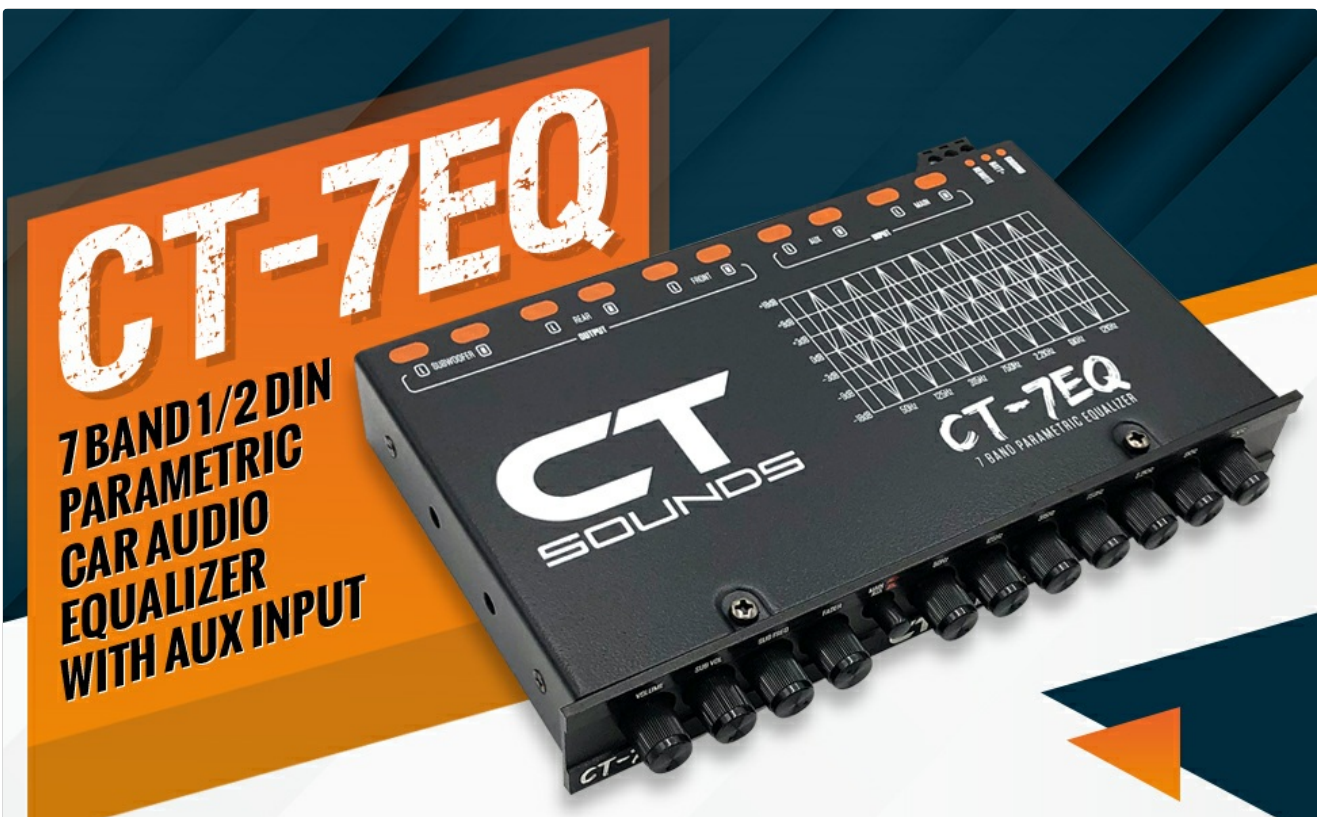


Figure 2: The CT-7EQ equalizer highlighting its 7-band parametric control and auxiliary input capability.

INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended to have the equalizer installed

by a professional car audio technician.

Mounting:

The CT-7EQ is a 1/2 DIN size, allowing for versatile mounting options. It can be installed in a dashboard opening, under the dash, or in a center console. Use the included installation brackets and hardware to secure the unit.

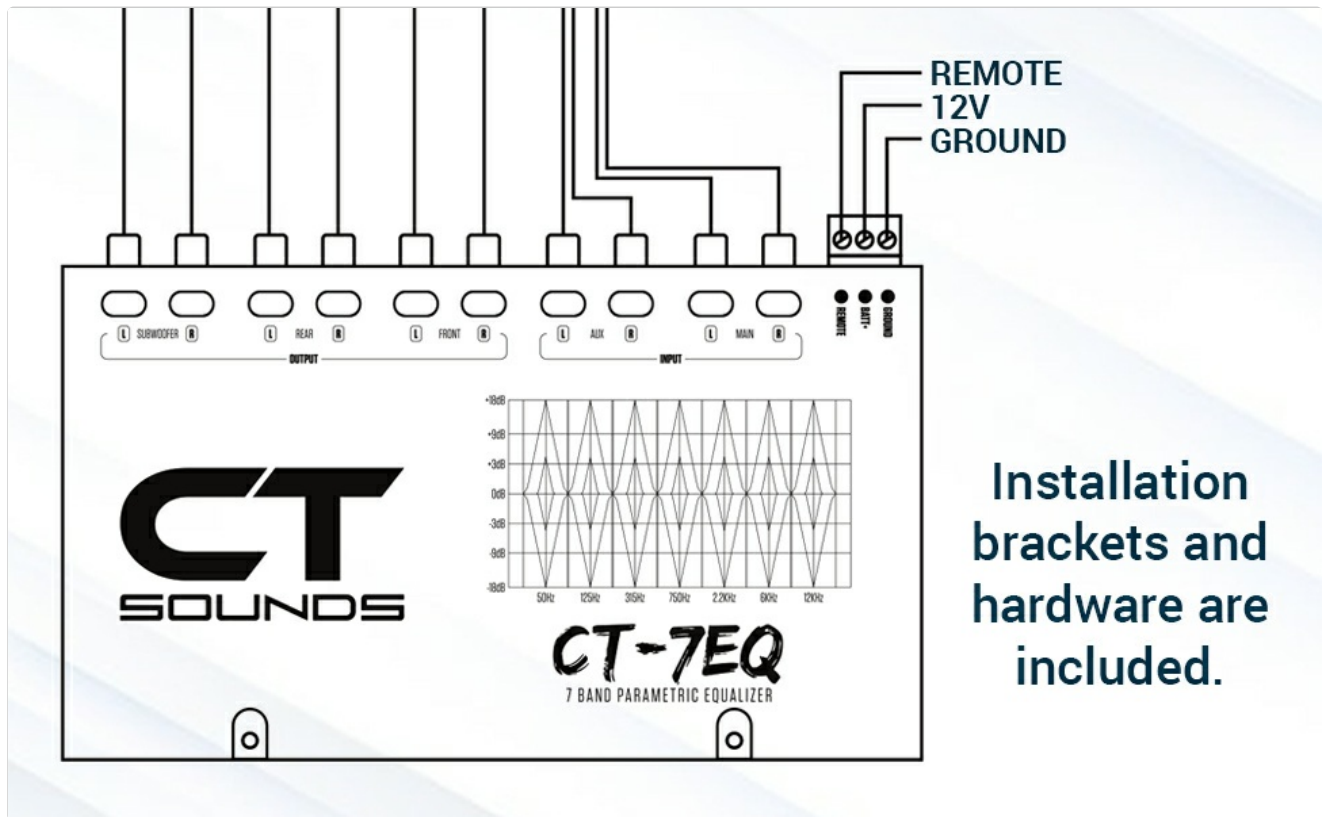


Figure 3: Included installation brackets and hardware for securing the equalizer.

Wiring Connections:

Ensure all power, ground, and remote turn-on connections are secure and properly insulated. The unit operates on a 9-16V power supply.

- **Power (BATT+):** Connect to a constant +12V power source.
- **Ground (GND):** Connect to a solid chassis ground point.
- **Remote (REM):** Connect to the remote turn-on output of your head unit or other switched 12V source.

Audio Inputs and Outputs:

The CT-7EQ offers flexible audio routing. You can input signals via high-level inputs or RCA inputs (Main In, Aux In) and output to front, rear, and subwoofer amplifiers.

- **High-Level Input:** For connecting to factory head units without RCA outputs.
- **Main In (RCA):** Primary RCA input from your head unit.
- **Aux In (RCA):** Auxiliary RCA input for additional audio sources.
- **Front Out (RCA):** Connects to the front channel amplifier inputs.
- **Rear Out (RCA):** Connects to the rear channel amplifier inputs.
- **Sub Out (RCA):** Connects to the subwoofer amplifier input. This output features a 10V line driver for strong signal delivery.

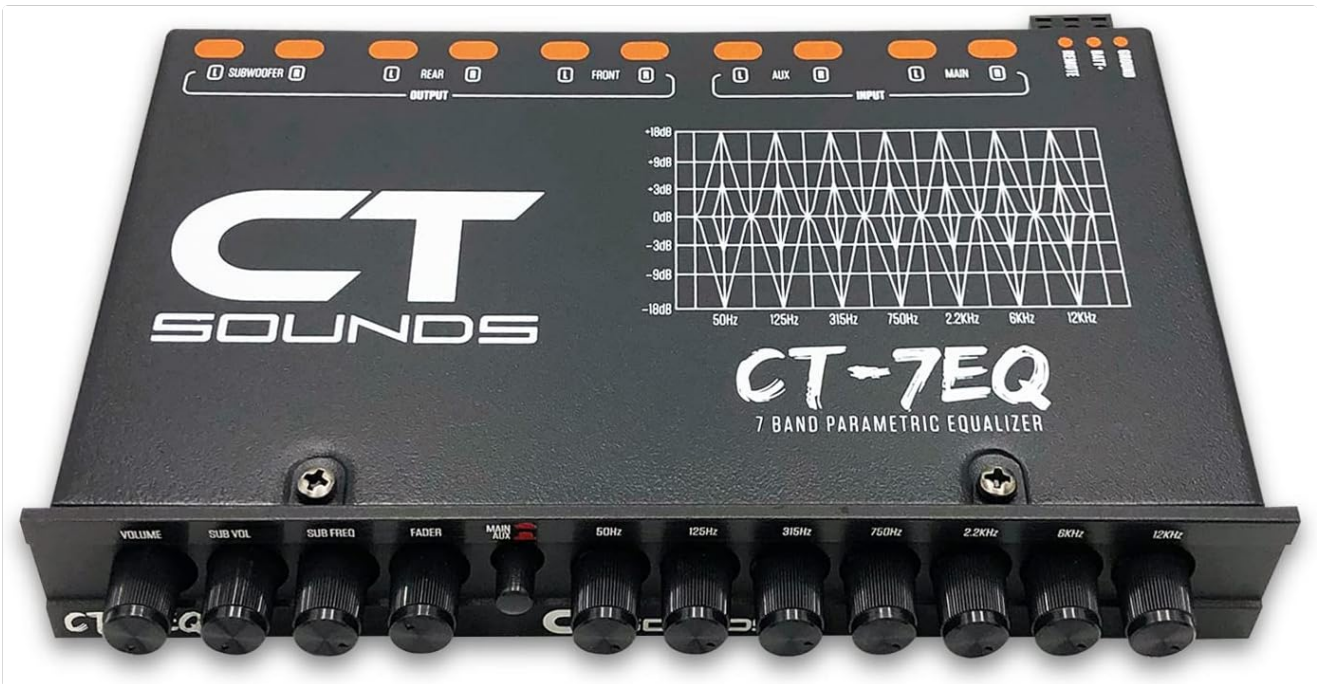


Figure 4: Rear panel connections including RCA inputs, outputs, and power terminals.

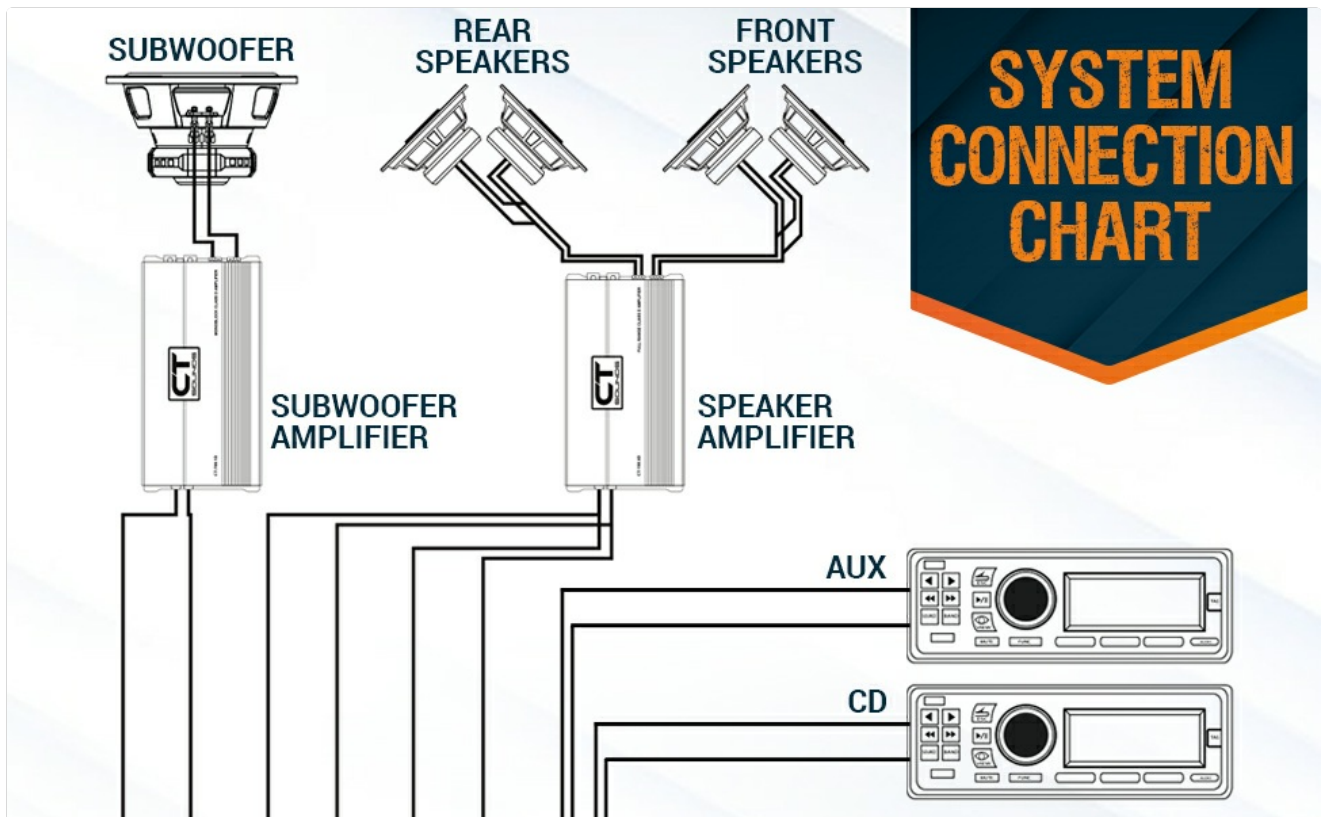


Figure 5: Diagram illustrating typical system connections for the equalizer with amplifiers and head units.

Installation Videos:

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Video 1: Overview and details of a 7-band equalizer, demonstrating its features and connections. (Source: STETSOM)

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Video 2: Detailed explanation of a 7-band equalizer, including its controls and functionality. (Source: Audiosavings)

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Video 3: Unboxing and initial look at a 7-band equalizer, showcasing its physical attributes and included accessories. (Source: Big Jeff Online Inc)

OPERATION

The CT-7EQ provides intuitive controls for fine-tuning your car audio system.

Front Panel Controls:



Figure 6: Close-up of the front panel controls, including volume, sub-level, fader, and equalization bands.

- **Volume:** Master volume control for the entire system.
- **Sub Vol:** Adjusts the output level of the subwoofer channel.
- **Sub Freq:** Controls the crossover frequency for the subwoofer output (43Hz & 60Hz).
- **Fader:** Balances the audio output between the front and rear speakers.
- **Main/Aux Switch:** Selects between the main RCA input and the auxiliary RCA input.
- **Equalization Bands:** Seven rotary controls for adjusting specific frequency ranges: 50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 6KHz, 12KHz. Each band can be boosted or cut by ± 10 dB.

Input Level Adjustment:

The unit features input level adjustments to prevent distortion. Ensure the input level is matched to your head unit's output to achieve a clean signal.

- **High Level Input:** For signals from speaker-level outputs.
- **Main Level:** For RCA line-level inputs.

The **CT-7EQ** is a 7 band 1/2 din parametric car audio equalizer designed to divide and enhance the segment of frequency for your car audio application.



The car audio equalizer features 7 bands that divide 20Hz - 20kHz into 7 segments. Each knob can control the volume of each segment so that you can take full control over your system.

Figure 7: The equalizer's controls, demonstrating how each knob can adjust specific frequency segments.

Operation Videos:

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Video 4: Demonstration of a 7-band equalizer's sound shaping capabilities and controls. (Source: ORION CAR AUDIO)

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Video 5: Quick overview of a 7-band car audio graphic equalizer's features and design. (Source: Leigesaudio)

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Video 6: Features and controls of a 7-band car audio graphic equalizer. (Source: Topstrongear)

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Video 7: 360-degree product view of a 7-band equalizer, showing all angles and connections. (Source: Big Jeff Online Inc)

SPECIFICATIONS

TECHNICAL SPECS

- Parametric Equalizer: 50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 12KHz
- Boost/Cut Range : ± 18 dB
- S/N Ratio: 90dB
- Frequency Response : 25Hz - 50KHz
- Distortion : 0.01% THD at 1V Output
- Power Source: 10-14.4V
- Input Current : .05A Max
- Output Level : +16 dB
- Bass Adjust : ± 10 dB
- Mid Adjust : ± 10 dB
- Treble Adjust: ± 10 dB
- Frequency Response : 10Hz - 30KHz ± 3 dB

Figure 8: Technical specifications of the CT-7EQ equalizer.

| Feature | Specification |
|----------------------------|--|
| Parametric Equalizer Bands | 50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 6KHz, 12KHz |
| Boost/Cut Range | ± 10 dB |
| Frequency Response | 25Hz-50KHz |
| Output Level | +16dB |
| Signal Separation | >60dB |
| Bass Adjust | ± 10 dB |

| Feature | Specification |
|----------------------|---------------------------|
| Mid Adjust | ±10dB |
| Treble Adjust | ±10dB |
| Sub Bass Frequencies | 43Hz & 60Hz |
| Power Source | 9-16V |
| Item Weight | 1.65 pounds |
| Package Dimensions | 9.17 x 6.06 x 1.93 inches |
| Model Number | CT-7EQ |

TROUBLESHOOTING

If you experience issues with your CT-7EQ, refer to the following common problems and solutions:

- **No Power:**

- Check the power, ground, and remote connections for proper wiring and secure contact.
- Verify the fuse in the power line is intact.
- Ensure the vehicle's battery has sufficient charge.

- **No Audio Output:**

- Confirm all RCA cables are securely connected to the correct inputs and outputs.
- Check the input source selection (Main/Aux switch).
- Verify the volume control on the equalizer and head unit is turned up.
- Ensure connected amplifiers are powered on and functioning correctly.

- **Distorted Sound:**

- Reduce the input level on the equalizer to prevent clipping.
- Adjust the gain settings on connected amplifiers.
- Check speaker wiring for shorts or incorrect polarity.
- Ensure equalization bands are not excessively boosted.

- **Engine Noise/Whine:**

- Ensure the equalizer's ground connection is solid and free from paint or corrosion.
- Route RCA cables away from power cables to minimize interference.
- Consider installing a ground loop isolator if the problem persists.

MAINTENANCE

The CT-7EQ is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure its longevity:

- Keep the unit clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the unit to extreme temperatures or moisture.

- Regularly check all wiring connections for tightness and signs of wear.
- Do not attempt to open the unit or perform repairs yourself, as this will void the warranty. Refer to qualified service personnel for any repairs.

WARRANTY AND SUPPORT

The CT Sounds CT-7EQ is covered by a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or service inquiries, please contact CT Sounds customer service. Keep your proof of purchase for all warranty-related requests.

For additional information and resources, visit the official CT Sounds website or consult your authorized dealer.