

Audiopipe EQ-515DXP

Audiopipe EQ-515DXP User Manual

5 BAND GRAPHIC EQUALIZER WITH 9 VOLT RCA OUTPUT

Model: EQ-515DXP | Brand: Audiopipe

1. INTRODUCTION

Thank you for choosing the Audiopipe EQ-515DXP 5-Band Graphic Equalizer. This device is engineered to provide precise control over your audio system's frequency response, allowing you to fine-tune your sound for optimal clarity and impact. With features like an adjustable active gain preamp and a bass expander, the EQ-515DXP offers superior audio customization for an enhanced listening experience.

This manual will guide you through the installation, operation, and maintenance of your new equalizer. Please read it thoroughly before use to ensure proper functionality and to maximize the performance of your audio system.

2. KEY FEATURES

The Audiopipe EQ-515DXP is equipped with several advanced features to deliver high-quality audio control:

- **Nickel Plated Locking Adjustable Knobs:** Durable and precise controls for optimal abrasion resistance and modern design.
- **Adjustable Active Gain Preamp:** Allows adjustment of input sensitivity to match various audio sources.
- **Bass Expander:** Digitally recreates and boosts low frequencies by analyzing upper harmonics, providing balanced and impactful bass.
- **30V Bi-Polar Switching Power Supply:** Ensures stable power delivery and can be connected to a plus or minus 15V power supply.
- **Adjustable Subwoofer Frequency:** Provides control over subwoofer frequencies at 60Hz or 90Hz.
- **Subwoofer Output and Level Controls:** Independent volume control for the subwoofer output.

- **Maximum Output Voltage:** 9V
- **Input Sensitivity:** 50mV ~ 3V
- **Operating Voltage:** 10~15V negative ground



Figure 2.1: Overview of key features of the EQ-515DXP.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended to have this unit installed by a professional car audio technician.

3.1 Power Connections

- **+12V (Power):** Connect this terminal to the positive (+) terminal of your vehicle's battery. Use a fuse (not included) as close to the battery as possible.
- **GND (Ground):** Connect this terminal securely to a clean, unpainted metal surface of the vehicle's chassis. Ensure a good electrical connection.
- **REM (Remote Turn-On):** Connect this terminal to the remote output of your head unit or other signal source. This will turn the equalizer on and off with your audio system.

3.2 Audio Connections

The EQ-515DXP features multiple RCA inputs and outputs for flexible system integration.

- **MAIN IN (RCA Input):** Connect the RCA output from your head unit (main source) to these inputs.
- **AUX IN (RCA Input):** Connect an auxiliary audio source (e.g., portable media player) to these inputs.
- **FRONT OUT (RCA Output):** Connect these outputs to the input of your front speaker amplifier.
- **REAR OUT (RCA Output):** Connect these outputs to the input of your rear speaker amplifier.

- **SUB OUT (RCA Output):** Connect these outputs to the input of your subwoofer amplifier.

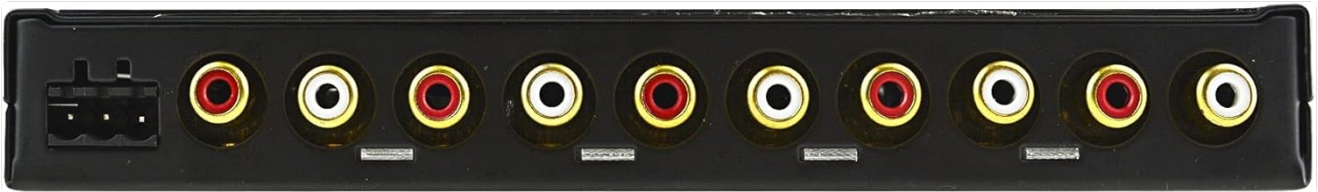


Figure 3.1: Rear panel connections of the EQ-515DXP.

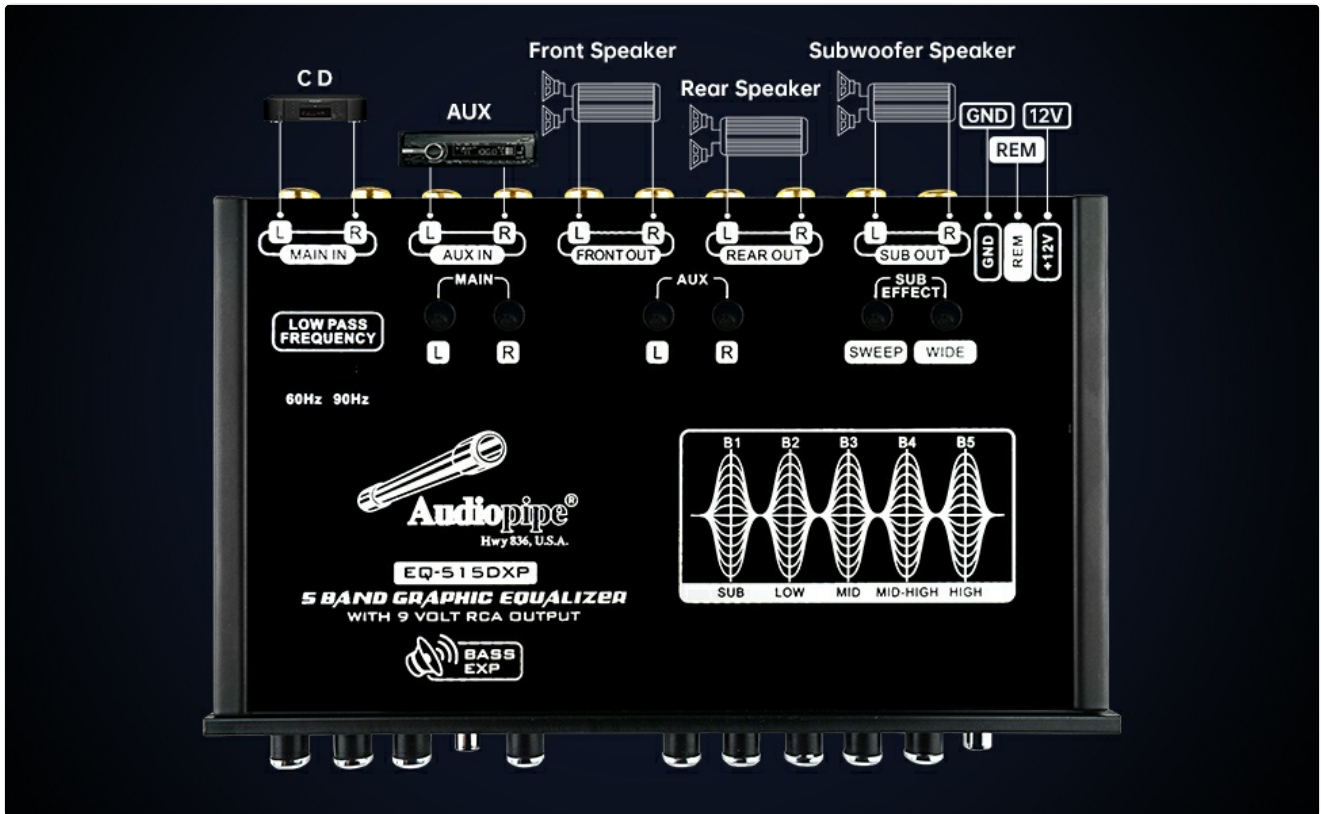


Figure 3.2: Typical wiring diagram for the EQ-515DXP in a car audio system.

3.3 Mounting

Mount the equalizer in a secure location, away from direct heat, moisture, or excessive vibration. Ensure adequate ventilation around the unit.

4. OPERATING INSTRUCTIONS

The EQ-515DXP provides intuitive controls for precise audio adjustments.



Figure 4.1: Front panel controls of the EQ-515DXP.

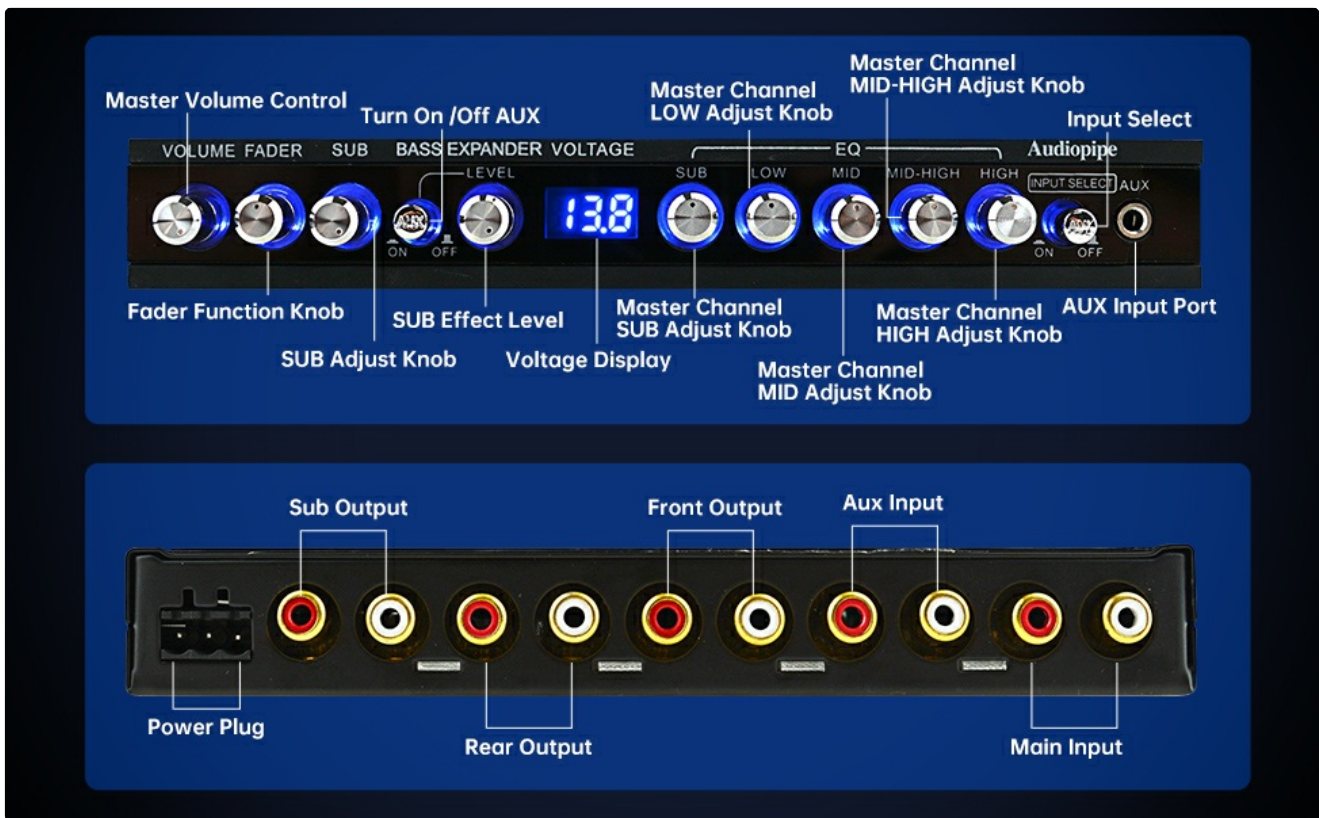


Figure 4.2: Detailed labeling of all controls and ports on the EQ-515DXP.

4.1 Control Functions

- **VOLUME FADER:** Controls the overall output volume of the system.
- **SUB:** Adjusts the output level of the subwoofer channel.
- **BASS EXPANDER (LEVEL):** Controls the intensity of the bass expansion effect.
- **BASS EXPANDER (ON/OFF):** Toggles the bass expander feature on or off.
- **VOLTAGE Display:** Shows the current operating voltage of the unit.
- **EQ Controls (SUB, LOW, MID, MID-HIGH, HIGH):** These five rotary knobs allow you to boost or cut specific frequency bands to shape your sound.
- **INPUT SELECT (MAIN/AUX):** Switches between the main RCA input and the auxiliary RCA input.
- **LOW PASS FREQUENCY (60Hz/90Hz):** A switch to select the crossover frequency for the subwoofer output, either 60Hz or 90Hz.
- **SWEEP:** Tunes the center frequency for the bass expander effect (typically 50Hz-120Hz).
- **WIDE:** Adjusts the width or Q-factor of the bass expander filter around the centered SWEEP frequency.

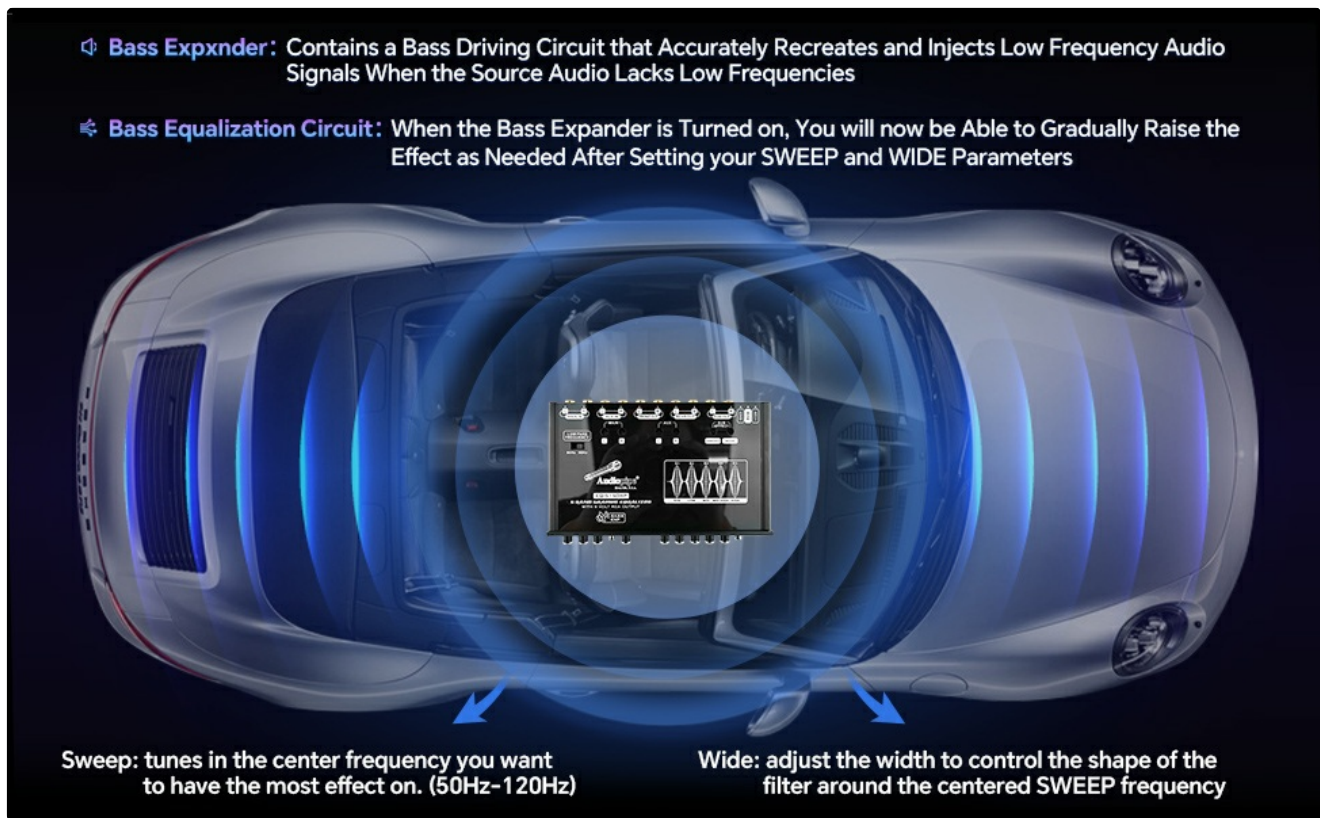


Figure 4.3: Explanation of Bass Expander 'Sweep' and 'Wide' functions.

4.2 Initial Setup and Tuning

1. Ensure all connections are secure and correct.
2. Turn on your head unit and the vehicle's ignition.
3. Set all EQ bands to their center (flat) position.
4. Adjust the VOLUME FADER to a comfortable listening level.
5. Gradually adjust each EQ band (SUB, LOW, MID, MID-HIGH, HIGH) to achieve your desired sound. Make small adjustments and listen carefully to the changes.
6. If using the bass expander, turn it ON and adjust the LEVEL, SWEEP, and WIDE controls to enhance low frequencies as desired.
7. Adjust the SUB level control to balance the subwoofer output with the main speakers.

4.3 Product Video Overview

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Video 4.1: An official overview of the Audiopipe 5 Band Graphic Equalizer with 9 Volt RCA Output, demonstrating its features and appearance.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Audiopipe EQ-515DXP, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the unit. Avoid using harsh chemicals, solvents, or abrasive cleaners, as they can damage the finish and internal components.
- **Environment:** Keep the equalizer away from extreme temperatures, direct sunlight, and high humidity.

- **Connections:** Periodically check all power and audio connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure that the unit has adequate airflow around it to prevent overheating. Do not block any ventilation openings.

6. TROUBLESHOOTING

If you experience issues with your EQ-515DXP, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power	Loose power connection; Blown fuse; No remote signal.	Check +12V, GND, and REM connections. Replace fuse if necessary. Verify remote turn-on signal from head unit.
No Sound	Incorrect RCA connections; Input Select switch set incorrectly; Amplifier issues.	Verify all RCA cables are correctly connected. Ensure INPUT SELECT is set to the active source (MAIN or AUX). Check amplifier power and connections.
Distorted Sound	Input sensitivity too high; EQ bands set too aggressively; Poor grounding.	Reduce input sensitivity. Adjust EQ bands to a less extreme setting. Check ground connection for cleanliness and security.
Bass Expander Not Working	Bass Expander switch is OFF; Level set to minimum.	Ensure BASS EXPANDER switch is ON. Increase BASS EXPANDER LEVEL.

If the problem persists after attempting these solutions, please contact Audiopipe customer support or a qualified technician.

7. SPECIFICATIONS

Detailed technical specifications for the Audiopipe EQ-515DXP:

Specification	Value
Item Weight	1.66 Pounds (0.75 kg)
Product Dimensions (L x W x H)	7.1" x 4.6" x 1.0" (180 x 117 x 26mm)
Color	Black
Brand	Audiopipe
Voltage	9 Volts (Max Output)
Power Source	Corded Electric

Specification	Value
Signal Format	Analog
Connector Type	RCA
Input Sensitivity	50mV ~ 3V
Operating Voltage	10~15V negative ground



Figure 7.1: Dimensions of the EQ-515DXP.

8. WARRANTY AND SUPPORT

Audiopipe products are designed for reliability and performance. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official Audiopipe website. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional assistance, you may contact Audiopipe customer service through their official channels.