

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

Manuals.plus /

- › [BOSS Audio Systems](#) /
- › BOSS Audio Systems BX35 Electronic Car Crossover User Manual

BOSS Audio Systems BX35

BOSS Audio Systems BX35 Electronic Car Crossover User Manual

Model: BX35

1. INTRODUCTION

The BOSS Audio Systems BX35 is a 3-way electronic crossover designed to enhance the sound quality and flexibility of your car audio system. This unit allows for precise tuning of high, mid, and low-range speaker frequencies, ensuring optimal performance from your amplifiers and speakers. For best results, professional installation is recommended.

2. SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Always ensure proper wiring and installation to prevent electrical hazards. Disconnect the vehicle's battery before beginning any installation work. Consult a professional car audio installer if you are unsure about any aspect of the installation process.

3. PACKAGE CONTENTS

- BOSS Audio Systems BX35 3-way Preamp Electronic Crossover

4. PRODUCT OVERVIEW

The BX35 electronic crossover provides dedicated control over the frequency ranges for your front, rear, and subwoofer channels. It features multiple inputs and outputs, variable filters, bass boost, and phase control to fine-tune your audio output.



Figure 4.1: Front View of the BX35 Crossover. This image displays the top panel of the BOSS Audio Systems BX35 electronic crossover, showing all control knobs and switches for subwoofer, rear, and front channel adjustments. The power indicator LED is also visible.



Figure 4.2: Angled View of the BX35 Crossover. An angled perspective of the BX35, highlighting the layout of the control panel and the robust casing. This view provides a clearer look at the input mode switch and the various frequency and level adjustment knobs.



Figure 4.3: Rear View of the BX35 Crossover. This image shows the rear panel of the BX35, detailing all RCA input and output connections, the power terminal block (12V+, REM, GROUND), and the fuse holder. This is crucial for understanding wiring connections.

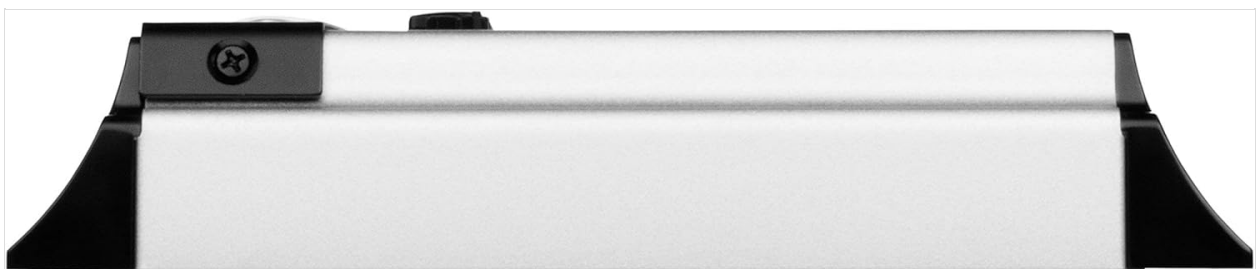


Figure 4.4: Side View of the BX35 Crossover. This image displays the sleek side profile of the BX35 unit, illustrating its compact design and robust construction.

Key Features:

- Front / Rear / Sub Inputs and Outputs

- Front High Pass Filter: 65 Hz to 4.5 kHz
- Rear High Pass Filter: 45 Hz to 1.6 kHz
- Variable Subwoofer Filter: 40 Hz – 250 Hz
- Variable High Pass Filter: 45 Hz – 5 kHz
- Crossover Slope: 12 dB / Octave
- Variable Subwoofer Phase: 0 – 180 Degrees
- Variable Bass Boost: 0 – 18 dB
- Variable Bass Boost Frequency: 25 Hz – 250 Hz
- Maximum Input Voltage: 4.5 Volts
- Maximum Output Voltage: 9 Volts
- Signal-to-Noise Ratio: 95 dB
- Total Harmonic Distortion (THD): 0.010%

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is highly recommended to have this unit installed by a qualified car audio professional. Refer to **Figure 4.3** for a visual guide to the rear connections.

5.1 Wiring Connections

1. **Power Connection (12V+):** Connect the 12V+ terminal to a constant +12V power source from your vehicle's battery. Ensure an in-line fuse (not supplied) is installed as close to the battery as possible.
2. **Remote Turn-On (REM):** Connect the REM terminal to the remote turn-on output of your head unit. This will turn the BX35 on and off with your car stereo.
3. **Ground Connection (GROUND):** Connect the GROUND terminal to a clean, unpainted metal surface of the vehicle's chassis. Ensure a solid connection to prevent noise.
4. **RCA Inputs:**
 - **FRONT INPUTS:** Connect RCA cables from your head unit's front pre-amp outputs to the BX35's FRONT INPUTS.
 - **REAR INPUTS:** Connect RCA cables from your head unit's rear pre-amp outputs to the BX35's REAR INPUTS.
 - **SUBWOOFER INPUTS:** Connect RCA cables from your head unit's subwoofer pre-amp outputs to the BX35's SUBWOOFER INPUTS.
5. **RCA Outputs:**
 - **FRONT OUTPUTS:** Connect RCA cables from the BX35's FRONT OUTPUTS to your front channel amplifier inputs.
 - **REAR OUTPUTS:** Connect RCA cables from the BX35's REAR OUTPUTS to your rear channel amplifier inputs.
 - **SUBWOOFER OUTPUTS:** Connect RCA cables from the BX35's SUBWOOFER OUTPUTS to your subwoofer amplifier inputs.

5.2 Mounting

Mount the BX35 securely in a location that is dry, well-ventilated, and away from direct heat sources or moving parts. Ensure sufficient space for wiring and adjustments. Use appropriate hardware to prevent vibration and damage.

6. OPERATING INSTRUCTIONS

The BX35 offers extensive control over your audio system's frequency response. Refer to **Figure 4.1** for the location of the controls.

6.1 Subwoofer Crossover Controls

- **LOW PASS FREQUENCY (40 Hz - 500 Hz):** Adjusts the upper frequency limit for the subwoofer output. Frequencies above this setting will be filtered out.
- **LEVEL:** Controls the output level of the subwoofer channel.
- **BASS BOOST (0 - +18 dB):** Increases the bass output at a specific frequency.
- **BASS BOOST FREQUENCY (25 Hz - 250 Hz):** Selects the center frequency for the bass boost.
- **PHASE (0° - 180°):** Adjusts the phase of the subwoofer output relative to the other speakers. This helps to align the subwoofer's sound waves with the main speakers for better bass integration.
- **INPUT MODE (MIXED/DIRECT):**
 - **MIXED:** Combines front and rear input signals for the subwoofer channel.
 - **DIRECT:** Uses only the dedicated subwoofer input for the subwoofer channel.

6.2 Rear Crossover Controls

- **HIGH PASS FREQUENCY (45 Hz - 1.6 kHz):** Adjusts the lower frequency limit for the rear output. Frequencies below this setting will be filtered out.
- **REAR OUTPUT LEVEL:** Controls the output level of the rear channel.

6.3 Front Crossover Controls

- **HIGH PASS FREQUENCY (65 Hz - 4.5 kHz):** Adjusts the lower frequency limit for the front output. Frequencies below this setting will be filtered out.
- **FREQ MULTIPLIER (x1 / x10):** Multiplies the selected high pass frequency by 1 or 10. Use x10 for higher frequency ranges (e.g., for tweeters).
- **FRONT OUTPUT LEVEL:** Controls the output level of the front channel.

7. MAINTENANCE

The BX35 is designed for reliable operation with minimal maintenance. Keep the unit clean and free from dust and debris. Periodically check all wiring connections to ensure they are secure and free from corrosion. Avoid exposing the unit to extreme temperatures or moisture.

8. TROUBLESHOOTING

If you experience issues with your BX35, refer to the following common troubleshooting steps:

- **No Power:** Check the 12V+ connection, ground connection, and remote turn-on wire. Verify the fuse is intact.
- **No Sound:** Ensure all RCA input and output cables are securely connected. Check the input mode setting. Verify that your amplifiers are receiving a signal and are powered on.
- **Distortion:** Reduce the input or output level settings on the BX35 or your amplifiers. Ensure that the crossover frequencies are set appropriately for your speakers.
- **Noise (Hissing, Whining):** Check all ground connections for cleanliness and security. Ensure RCA cables are not routed near power cables. Try a ground loop isolator if noise persists.
- **Incorrect Frequency Response:** Re-check all crossover frequency settings and output levels. Ensure the phase control for the subwoofer is correctly adjusted.

If problems persist after following these steps, consult a professional car audio technician.

9. SPECIFICATIONS

Product Dimensions	8 x 7.4 x 1.5 inches
Item Weight	2.2 pounds
Model Number	BX35
Connectivity Technologies	RCA
Maximum Input Voltage	4.5 Volts
Maximum Output Voltage	9 Volts
Signal-to-Noise Ratio	95 dB
Total Harmonic Distortion (THD)	0.010%
Crossover Slope	12 dB / Octave

10. WARRANTY AND SUPPORT

The BOSS Audio Systems BX35 Electronic Car Crossover comes with a **1 Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support or warranty inquiries, please contact BOSS Audio Systems customer service. Contact information can typically be found on the manufacturer's official website or product packaging.