

BX-55



INTRODUCTION

Congratulations on your purchase of a BOSS Audio Systems Electronic Crossover. This product has been designed and built to deliver excellent sound quality and long lasting high performance. We are sure you'll enjoy listening to your favorite music with this BOSS component in your car audio system. For best results please consult a professional car stereo installer for application advice or troubleshooting. To guarantee top performance we recommend using The BOSS Link installation accessories such as RCA interconnects, power cable, and speaker wire. Thank you for choosing BOSS Audio Systems products for your autosound system. We can't change the world, but we can make it sound better.

FEATURES

Three Way Electronic Crossover
Silver Plated RCA and Power Connectors
Remote Control Provided for Low Pass Output Level
Remote On/ Off Power Control
LED Power Indicator
Switching Power Supply
Low-Noise High Slew Rate Audio Grade Op Amps
Fully Adjustable Low and High Pass Output Levels
Phase Reverse Volume on Low Pass
Infinitely Variable Low Pass Crossovers, Rear and Main
Infinitely Variable High Pass Crossovers, Front and Rear
Low Pass Mono Channel Selector for "Mixed" or "Direct" Low Pass Inputs
Bandpass/Highpass Switch for Rear Channels
Bass Boost Volume with Variable Frequency Volume.

SPECIFICATIONS

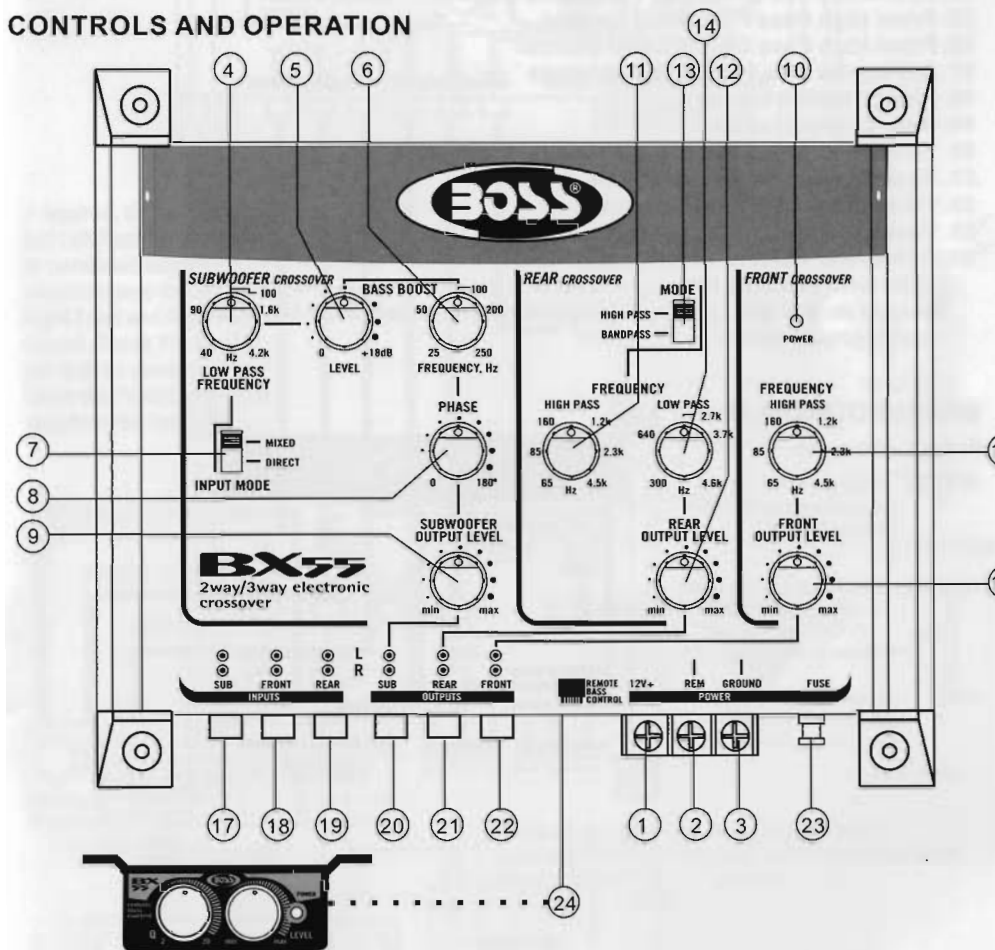
Input Impedance	39K-Ohm Each Channel
Maximum Input Level	4.5V RMS
Maximum Output Level	9V RMS
High Pass Crossover, 12dB/octave	Front: 65Hz-4.5KHz; Rear: 65Hz -4.5KHz
Low Pass Crossover, 12dB/octave	Rear: 300Hz-4.6KHz
Low Pass Crossover, 12dB/octave	Main: 40Hz-4.2KHz
Low Boost	0 to +18dB
Gain Structure	Variable, 0 to +6dB
Frequency Response, Low Pass	5Hz - 4.8KHz, -3dB
Frequency Response, High Pass	F: 65Hz-50KHz, -3dB; R: 65Hz-50KHz, -3dB
Signal-to-Noise Ratio	>95dB
THD	<0.01%
Dimensions	8- 3/4"(W) x 6-1/2"(L) x 1-1/2"(H) (222mm x 165mm x 38mm)

Features and specifications subject to change without notice.

INSTALLATION

1. Find a suitable location in the vehicle to mount the crossover.
2. Bolt the crossover to the mounting surface.
3. Using the screw terminals provided, connect minimum 16 gauge wire from the power, Ground and remote terminals. Connect the shortest possible wire to a chassis ground point. The (+) 12V connection should be made directly to the car battery, and the remote should be connected to the Remote Turn On Lead of your head unit. When connecting directly to the battery, install a 3A Fuse within 18 inches of the battery terminal.
4. Connect all line inputs and outputs using high-quality RCA cables.
5. Recheck all connections before powering up.
6. Set all level controls to their minimum positions and set all crossover controls, switches, etc. To the desired frequency or position.
7. Once the system is powered up, set the volume control on the head unit to a moderate level where your normal speaking voice can be heard while the music is playing.
8. Further fine tuning of the various controls may be necessary to obtain the desired results.
9. When unsure about installation or system tuning, please consult an authorized BOSS AUDIO dealer.

CONTROLS AND OPERATION



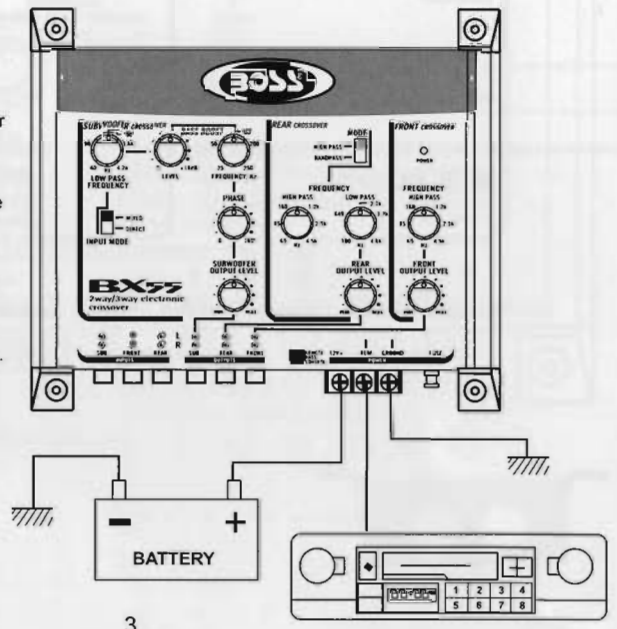
CONTROLS AND OPERATION (continue)

1. Power Terminal (+12V).
2. Remote Turn-On Terminal (REM).
3. Ground Terminal (GND).
4. Subwoofer Low Pass Frequency Control.
5. Bass Boost Level Control (TO +18dB)
6. Bass Boost Frequency Control
7. **Low Pass Mode Switch:** Allows Low Pass Channel to receive signal from either the mix of Front and Rear inputs or from Low Pass Inputs directly when head unit has appropriate 5th / 6th outputs.
8. **Variable Phase Selector Control:** Use this control to select output phase for the subwoofer channel to provide best time alignment and stereo imaging.
9. **Subwoofer (Low Pass) Output Level Control**
10. LED Power On Indicator
11. Rear Channel High Pass Frequency Control
12. Rear Channel Output Level Control
13. In Triamp System, Converts Rear Channels to Band Pass
14. Rear Low Pass Crossover Frequency Control
15. Front High Pass Frequency Control
16. Front High Pass Output Level Control
17. Subwoofer Low Pass Channel Inputs
18. Rear Channel Inputs
19. Rear Channel Inputs
20. Subwoofer Low Pass Channel Output Terminals.
21. Rear Channel Output Terminals.
22. Front Channel Output Terminals.
23. Fuse
24. **Subwoofer Remote Level Control Jack:** To be connected to the remote control for adjusting the output level of subwoofer output. (NOTE: The remote control will adjust to the highest preset setting of the subwoofer low pass gain control.)

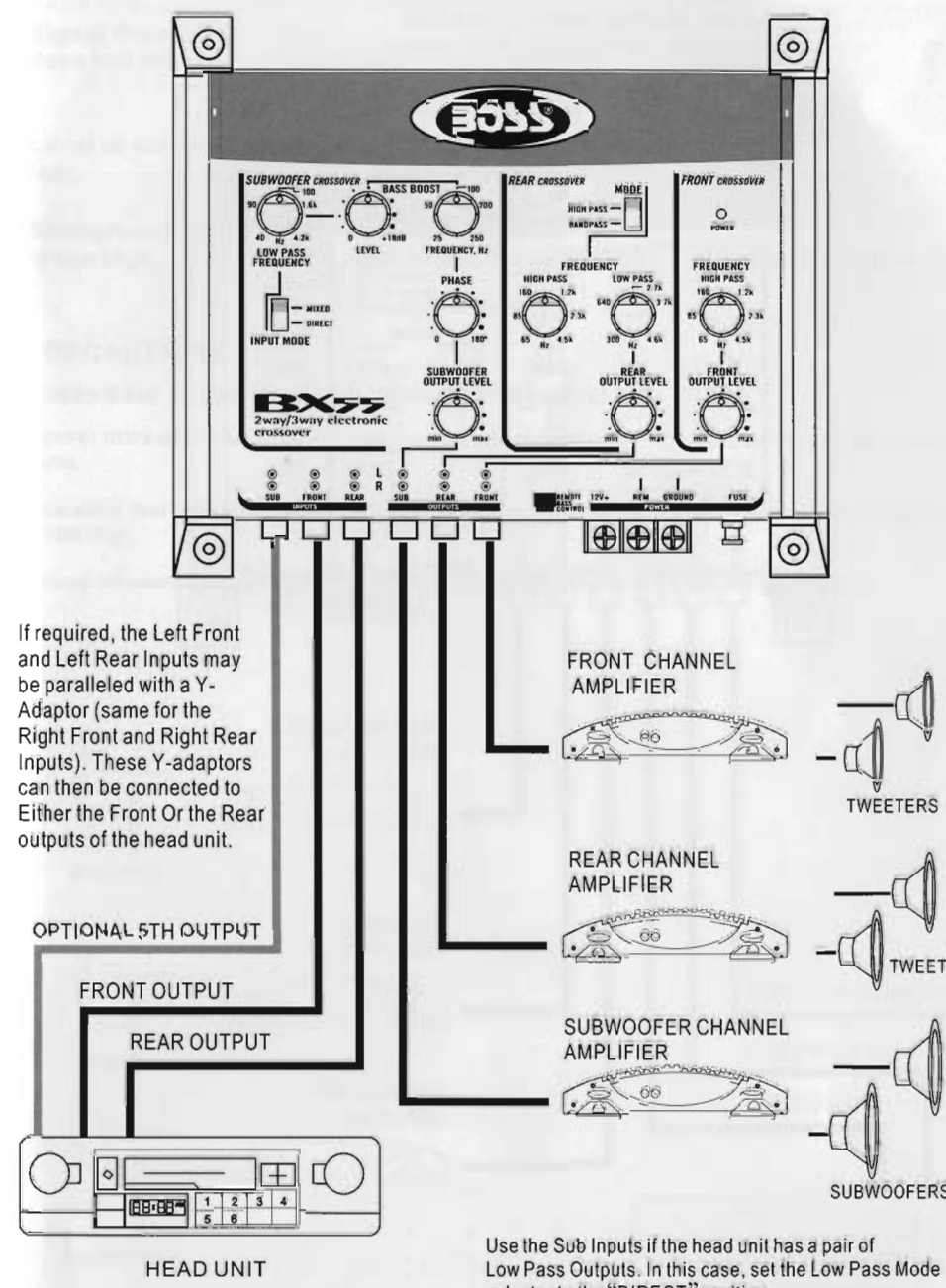
WIRING DIAGRAM:

Power Connection

- **B+(12V)** : Connect a red wire to the car battery or other power source.
- **REMOTE:** Connect a orange wire to remote activating (12V DC) wire of car stereo or equalizer.
- **GND** : Connect a black wire to the car chassis for ground connection.



WIRING DIAGRAM: Two Way (BIAMP) Operation



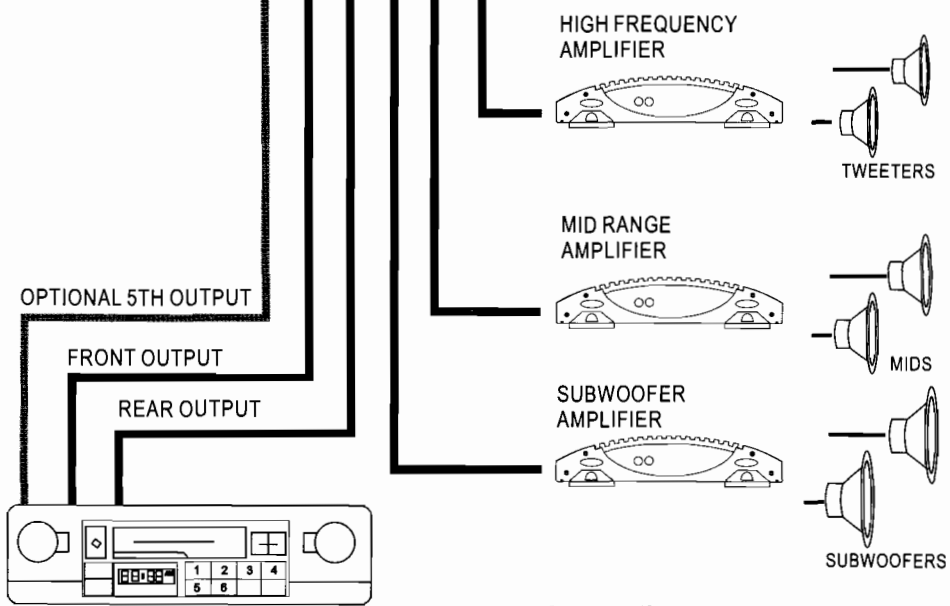
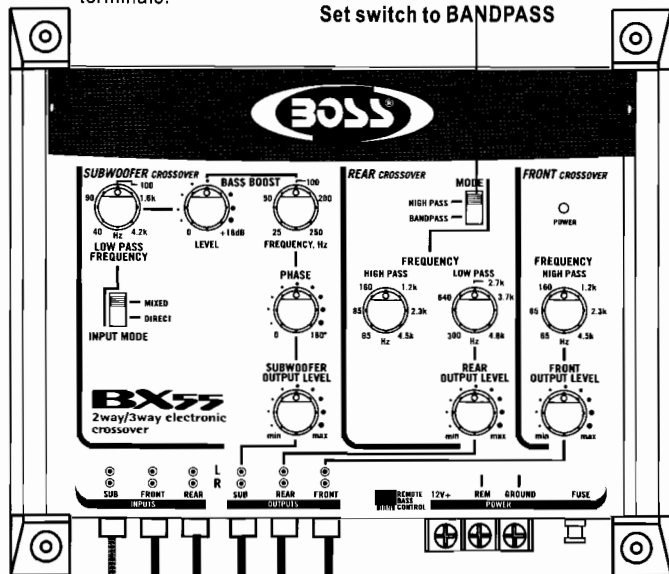
If required, the Left Front and Left Rear Inputs may be paralleled with a Y-Adaptor (same for the Right Front and Right Rear Inputs). These Y-adaptors can then be connected to Either the Front Or the Rear outputs of the head unit.

Use the Sub Inputs if the head unit has a pair of Low Pass Outputs. In this case, set the Low Pass Mode selector to the "DIRECT" position.

WIRING DIAGRAM: Signal Connection

This amp may be used in BRIDGED MODE as well, by simply connecting the woofer across the BRIDGED OUTPUT speaker terminals.

Set switch to BANDPASS



Use the Sub Inputs if the head unit has a pair of Low Pass Outputs. In this case, set the Low Pass Mode selector to the "DIRECT" position.

STROUBLE SHOOTING

Symptom Possible remedy:

Signal Processor does not turn on. Check:
 *Remote Turn-On wire has (+) 12V
 *(+) 12V wire has (+) 12V
 *Ground wire is properly connected:

Level of sound is low. Check:
 *Wiring is not loose or cables misconnected/disconnected
 *RCA cables are not faulty

Background noise is too high. Check:
 *Wiring is not loose or cables misconnected/disconnected - ground is important
 *RCA cables are not faulty

PRECAUTIONS

Enjoy your system, but use it wisely and safely!

- *Never drive with the volume raised so high you cannot hear what is occurring in traffic around you.
- *Be ware that repeated exposure to excessive volume levels can permanently damage your hearing!
- *Keep all electronics away from moisture, dust, extreme heat or extreme vibrations.