

# BX-25



# BOSS<sup>®</sup>

## AUDIO SYSTEMS

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## 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

**HIGH PASS CHANNEL :**  
 High Pass Frequency Selector 50Hz to 1.5KHz  
 High Pass Output Level Control

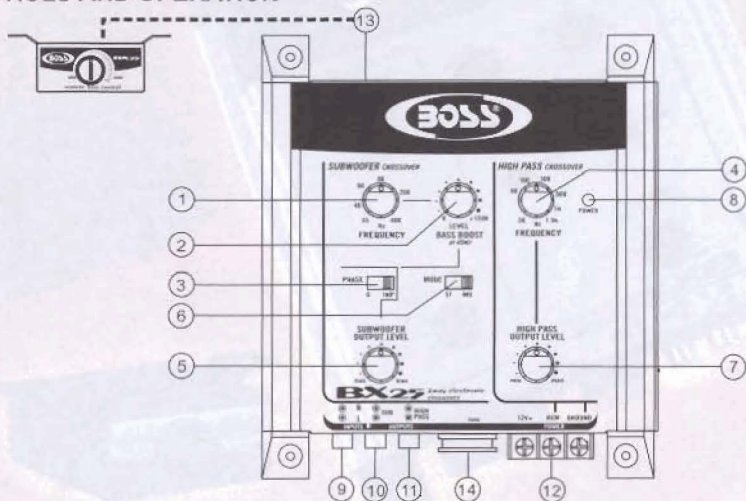
**SUBWOOFER CHANNEL**  
 Low Pass Frequency Selector 35Hz to 400Hz  
 +12dB Bass Boost  
 Phase Shift Switch  
 Stereo/Mono Switch  
 Output Level Control  
 Exclusive Remote Subwoofer Level Control

## SPECIFICATIONS

Power Supply ..... DC to DC switching power  
 S/N Ratio ..... 110dB  
 Channel Separation..... 80dB  
 Distortion ..... THD @ 0.01%  
 Crossover Slope ..... 12dB per Octave  
 Input Impedance ..... 20K Ohms  
 Output Impedance ..... 100 Ohms  
 Output Gain ..... 1:2 (+6dB)  
 Output Voltage Level ..... 8Volts Max  
 Dimensions (W x L X H): 8-3/4" X 5-3/4" x 1-1/2"  
 (222mm x 146mm x 38mm)

Features and specifications subject to change without notice.

## CONTROLS AND OPERATION



### 1. Low Level Input jacks.

- Subwoofer Low Pass Frequency Selector:** By turning the selector you can choose from an infinite number of crossover points from 35Hz to 400Hz.
- Bass Boost Control (45Hz):** You can increase the bass level up to +12dB.
- Phase Shift Selector Switch:** Use this switch to select Output Phase for the Subwoofer Channel to provide best time alignment and stereo imaging.
- High Pass Frequency Selector:** By turning the selector you can choose from an infinite number of crossover points from 50Hz to 1.5KHz.
- Subwoofer Output Level Control:** By turning this control clockwise you can increase Low pass output gain.
- Stereo/Mono Switch:** For selection of stereo or mono mode for Subwoofer Output Signal.
- High Pass Output Level Control:** By turning this control clockwise you can increase the High pass output gain.
- LED Power On Indicator.**
- Signal Input Connectors**

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## 10. Low Pass (Sub-Woofer) Output Connectors

## 11. High Pass Output Connectors

## 12. Power Connections Terminal: +12V, Ground and Remote Turn-On

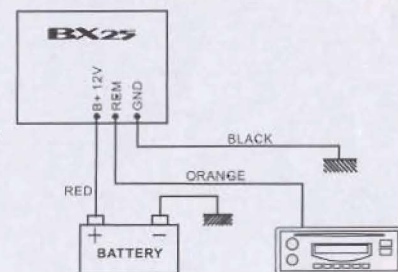
## INSTALLATION

- Find a suitable location in the vehicle to mount the crossover.
- Bolt the crossover to the mounting surface.
- 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.
- Connect all line inputs and outputs using high-quality RCA cables.
- Recheck all connections before powering up.
- Set all level controls to their minimum positions and set all crossover controls, switches, etc. To the desired frequency or position.
- 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.
- Further fine tuning of the various controls may be necessary to obtain the desired results.
- When unsure about installation or system tuning, please consult an authorized BOSS AUDIO dealer.

## ELECTRONIC CONNECTIONS & WIRING

### Power connection

- B+(12V) :** Connect a red wire to the car battery or other power source.
- REMOTE :** Connect an 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: Signal Connection

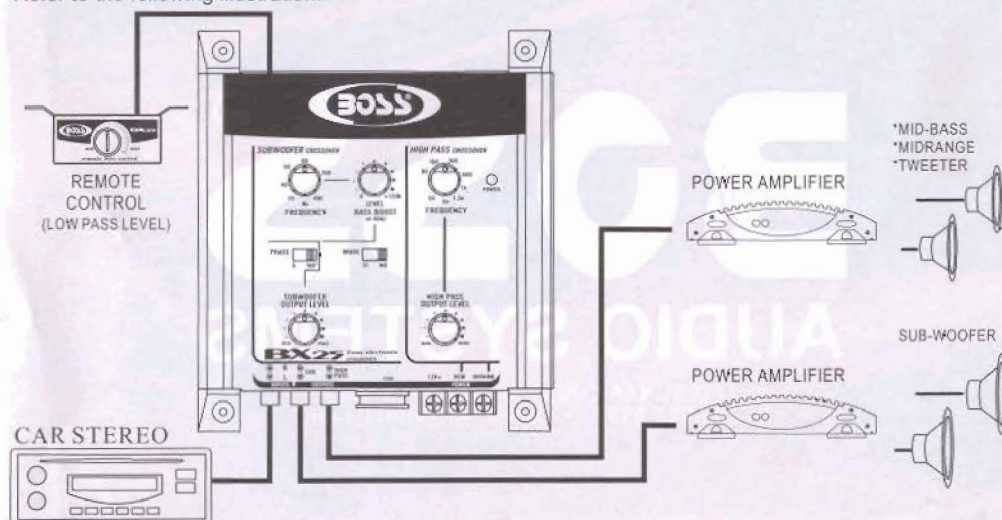
This is typical 2-way connection.

In this mode the output signal will be divided into two:

LOW PASS and HIGH PASS output terminals.

Connect HIGH PASS output to an amplifier for composite signal of HIGH range and connect LOW PASS output to LOW (SUB-WOOFER) amplifier.

Refer to the following illustration.



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