

user's manual

BLITZ AUDIO



BZX-7

**3-Way Electronic Crossover Network
with Subwoofer Level Control**



INTRODUCTION...

Thank you for purchasing the Blitz High performance Electronic Crossover. Rest assured you have purchased a quality product designed and engineered to give you many years un-compromised musical service. The Blitz Electronic Crossover has been designed using the latest in electronic technology available today.

When you check the list of features offered by the BZX-7, you'll know you made the right choice with a Blitz Electronic Crossover network.



table of contents

| | |
|--|-----|
| general features | 2 |
| precautions | 3 |
| features and specifications | 4-5 |
| system wiring | 6 |
| mounting and installation | 7 |
| noise check and system adjustment | 8 |
| troubleshooting | 9 |



general features

Chrome Plated Chassis

Clear Acrylic Protective Cover

Green Light Illumination

LED Power On Indicator

Front and Rear Inputs

In (Subwoofer)/ Out (Crossover/Amp) Selector and Ports

Subwoofer, Mid-Range, and High Pass Outputs with Gain Controls

Slope Rate: 12dB/Octave

Band Pass/ High Pass Selector on Mid-Range

Sub Level and Q. Selector (2-20 Variable) Remote Control

Subwoofer Stereo/Mono Selector

Subwoofer Selectable Phase Shifter

Adjustable Bass Boost and Bass Frequency (25 -250Hz) Controls

Adjustable Frequency Selector,

Low Pass: 40-400Hz, Mid Range: 40-7kHz, High Pass: 40-8kHz

Frequency Multiplier (x1, x10) on High Pass Output





Precautions

To prevent short circuits, be sure to disconnect the negative battery ground lead before wiring the system up.

When you finish the installation, be sure to make one more check to be sure everything is done correctly.

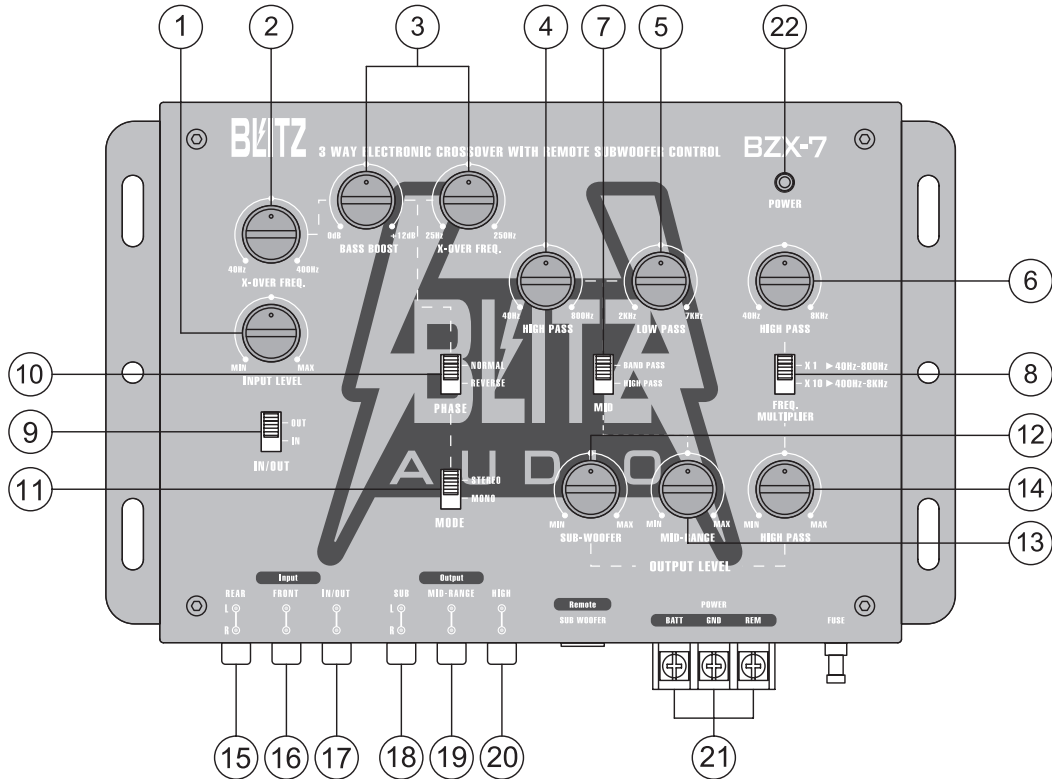
Reinstate all car parts that were removed.

Reconnect the negative battery ground lead.

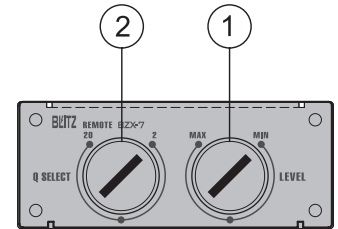


BLITZ

features and specifications



4



BZX-7

features and specifications

- 1. INPUT LEVEL CONTROL** Turning this control to adjust the input sensitivity of the set to match the radio's output.
- 2. SUBWOOFER FREQUENCY CONTROL** For selection of the Low-pass crossover frequency for the subwoofer channel between 40Hz and 400Hz.
- 3. BASS BOOST FREQUENCY LEVEL CONTROLS** For increasing the bass boost level up to +12dB from 25Hz to 250Hz.
- 4. MID RANGE / HIGH PASS FREQUENCY SELECTOR** By turning the selector you can choose a high pass crossover point for the mid output between 40Hz-800Hz
- 5. MID RANGE / LOW PASS FREQUENCY SELECTOR** By turning the selector you can choose a low pass crossover point for the mid output between 2-7KHz
This adjustment only applies when switch number 7 is placed on BAND PASS.
- 6. HIGH PASS FREQUENCY SELECTOR** By turning the selector you can choose the high-pass crossover points from 40Hz-8kHz.
- 7. HIGH PASS / BAND PASS SELECTOR** Positioning this switch is at high pass mode, the low pass filter cannot be used.
- 8. FREQUENCY MULTIPLIER** Positioning this switch at the "10" changes crossover points from 40Hz-800Hz to 400Hz-8kHz for high frequency high channel drivers.
- 9. IN / OUT SWITCH** See page 6 (signal connection diagram)
- 10. SUBWOOFER SELECTABLE PHASE SHIFTER** Allows you to change the phase of your subwoofer 0 or 180 degrees to help compensate for timing differences between drivers.
- 11. SUBWOOFER STEREO/MONO SELECTOR** For selection of stereo or mono mode subwoofer output.
- 12. SUBWOOFER GAIN CONTROL** For adjusting the subwoofer channel output signal level.
- 13. MID RANGE GAIN CONTROL** For adjusting the mid range channel output signal level.
- 14. HIGH PASS GAIN CONTROL** For adjusting the high pass channel output signal level.
- 15. REAR CHANNEL INPUT PORT** To be connected to the rear channel outputs of the source unit.
- 16. FRONT CHANNEL INPUT PORT** To be connected to the front channel outputs of the source unit.
- 17. IN / OUT PORT** You can use this connection if you have a third pre-amp audio source for the subwoofer in or connect two or more BZX-7 modules out to create a system with an unlimited number of amplifiers.
- 18. SUBWOOFER OUTPUT PORT** To be connected to the subwoofer channel amplifier left/right inputs.
- 19. MID RANGE OUTPUT PORT** To be connected to the rear channel amplifier input.
- 20. HIGH PASS OUTPUT PORT** To be connected to the front channel amplifier left/right inputs.
- 21. POWER TERMINALS** Use these connectors to deliver power, ground and remote turn-on control to the unit.
- 22. LED POWER ON INDICATOR** The LED indicator lights up when the internal switching power supply is activated and the unit is operational.

Adjustable bass boost

and bass frequency

(25Hz- 250Hz)

Quality factor

20-2 (Variable)

Selectable crossover

frequency

- Subwoofer (Low Pass)

40Hz-400Hz

- Mid high pass

40Hz-800Hz

- Mid low pass

2KHz-7KHz

- High Pass

40Hz-8KHz

Power supply

10-16V DC, negative ground

Input impedance

10K Ohm

S/N ratio

more than 85dB

Slope Rate

12dB/Octave

Max output signal level

7.0V RMS

Channel separation

60dB

Distortion

less than 0.05%

Dimensions

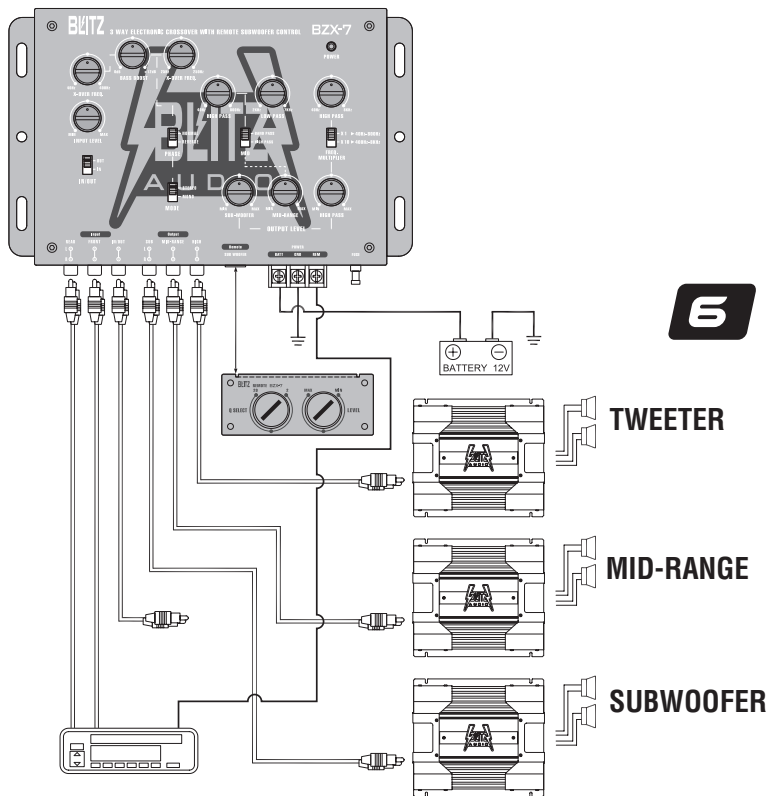
1.8"H x 9.3"W x 6.4"D



IN/OUT SIGNAL CONNECTION DIAGRAM

IN/OUT SWITCH

| SWITCH POSITION | VIA INPUT SOURCE | OUTPUT SUBWOOFER | MID | HIGH |
|-----------------|------------------|------------------|-----|------|
| IN | FRONT | ON | ON | ON |
| | REAR | ON | OFF | OFF |
| OUT | FRONT | ON | OFF | OFF |
| | REAR | ON | ON | ON |



TWEETER

MID-RANGE

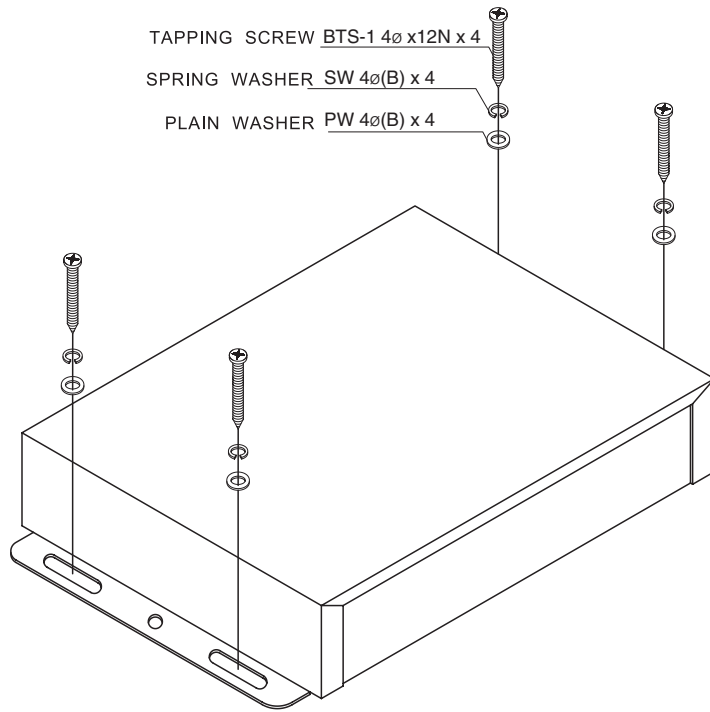
SUBWOOFER

Mounting and installation

Your new Blitz Series crossover comes complete with all required mounting hardware.

Mark the location for the mounting screw holes by positioning the crossover where you wish to install it and use a scribe (or one of the mounting screws) inserted in each of the mounting holes to mark the mounting surface. If the mounting surface is carpeted, measure the hole centers and mark with a felt tip pen.

Before attempting to drill the mounting holes, take note of any wires, lines or other devices in your vehicle which may be located behind the mounting surface! Then drill pilot in the mounting surface for the mounting screws and insert them. Tighten the screws securely.





Noise check and system adjustment

NOISE CHECK

Check the entire audio system for noise before permanently securing the CROSSOVER mounting

1. Start the engine.
2. Turn the audio system on.
3. Rev the engine and vary the VOLUME of the audio system to determine if there is any unwanted noise.
If so, turn both the audio system and the engine off. Do not secure the CROSSOVER mounting screws. Refer to the "Trouble Shooting Guide" at this manual.
4. If the audio system does not have any noise, securely tighten the CROSSOVER mounting screw and double check the wiring cables for safe placement.

SYSTEM ADJUSTMENT

Preliminary Adjustments

Pre-setting the system provides a necessary starting point for fine-tuning the entire audio system to maximum performance.

NOTE: DO NOT MOUNT CROSSOVER UNTIL THE FOLLOWING PROCEDURES HAVE BEEN COMPLETED.

1. Preset each amplifier input gain adjustment at the amplifier to half of maximum.
2. Before turning the audio system on, preset-adjust the front, rear and sub-woofer output level controls, as well as the front channel high-pass and sub-woofer channel low-pass crossover points.
3. Slowly turn the volume up and listen carefully for: obvious trouble in sound (distortion, no sound, no hiss, total silence). Turn the system off refer to "Trouble Shooting Guide" at this manual.

Caution

DO NOT ROUTE AUDIO CABLES AND POWER CABLES TOGETHER! THIS CAN CAUSE ENGINE NOISE IN YOUR AUDIO SYSTEM. ALWAYS DISCONNECT THE SYSTEM FROM THE BATTERY BEFORE ATTEMPTING TO MAKE OR ALTER ANY CONNECTIONS. THIS PRODUCT IS DESIGNED FOR USE IN ANY 12 VOLTS NEGATIVE GROUND ELECTRICAL SYSTEM ONLY. INSTALLING THIS PRODUCT IN ANY POSITIVE GROUND ELECTRICAL SYSTEM COULD SERIOUSLY DAMAGE THE AUDIO SYSTEM.



| PROBLEM | POSSIBLE CAUSE |
|--|--|
| 1. There is an audible distortion at a low volume level. | Output levels NOT set correctly. |
| 2. A whining sound can be heard through the speakers when the audio system is at low volume with the engine running. The whining noise remains unchanged or seems to disappear when the volume level is increased. | Check the red power wire. It must be connected directly to the battery. Check the system's ground point. It must make good contact with chassis ground (bare metal). The radio and the CROSSOVER must be grounded at the same reference point. |
| 3. There is a "motor boating" type of sound when the engine is running and the audio system volume is set at a reasonably high level. | Check the red power wire. It must be connected directly to the battery. Check the system's ground point. It must make good contact with chassis ground (bare metal). |



l i m i t e d w a r r a n t y p o l i c y

C R O S S O V E R

All Blitz products are carefully constructed and thoroughly tested before shipment. Products purchased in the USA are warranted to be free of defects in material and workmanship for two (2) years from the date of purchase. This warranty is limited to the original retail purchase.

Should the product fail due to factory defects in material or workmanship, your unit will be repaired or replaced at the sole discretion of Blitz.

To obtain warranty service you must first call our Consumer Return Hotline number at (718) 236-6948 to obtain a Return Authorization number. This R.A.# must appear on the outside of your package and on all paperwork relating to your return.

When returning a product to us for warranty service it must be carefully packed and shipped prepaid to:

R.A.#
Blitz Service Center
1600 63rd Street
Brooklyn, NY 11204

You must also include the following items:

- A copy of your sales receipt or other proof of purchase
- A brief letter indicating the problem you are experiencing
- include in your letter your return address, daytime phone number, and R.A. number
- also include a check or money order for \$15.00 for return shipping, handling, and insurance, or provide your Visa/MC number with expiration date.

Our obligation under this warranty is limited to the repair or replacement of the defective unit when it is returned to us prepaid. This warranty will be considered void if the unit was tampered with, improperly serviced, or subject to misuse, neglect, or accidental damage.

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