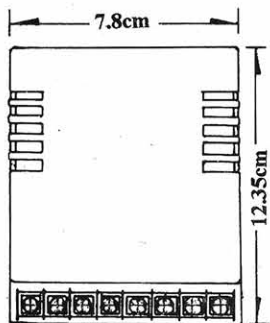
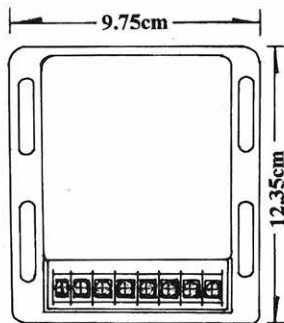


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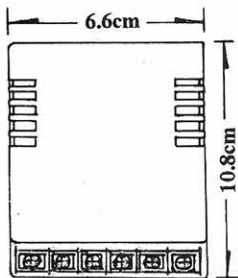
CR 33



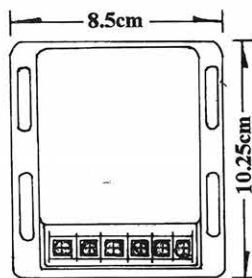
MGX 33



CR 22



MGX 22



WARRANTY

Boschmann Audio Labs warrant to the original purchaser its products to be free from manufacturing defects and workmanship problems for a limited one-year period. The warranty covers all parts and labor for all BOSCHMANN™ amplifiers, equalizers, crossovers and loudspeakers. In warranty merchandise will be repaired or replaced at the discretion of Boschmann Audio Labs service department or nearest authorized dealer. To obtain warranty service, fill out dealer's form and bring along the purchase slip to the nearest dealer. This warranty will not be extended to any products that have been subject to misuse, abuse, neglect, accident, improper installation, installed in a commercial vehicle or used in violation of instructions furnished by us to product which has been repaired or altered by the factory. In no way shall Boschmann Audio Labs be held responsible for consequential or inconsequential damages. Some states do not allow this exclusion so the above does not apply to you. You also may have other rights which vary from state to state.

BOSCHMANN AUDIO LABS

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BM BOSCHMANN™

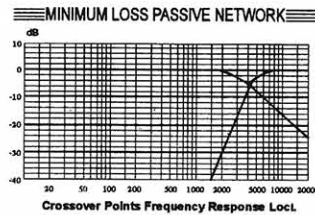
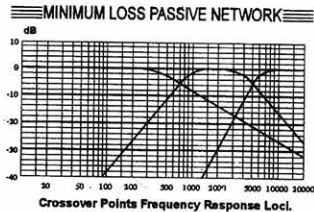
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BM BOSCHMANN™
ADVANCED SOUND SYSTEMS

CR 33/CR 22/MGX 33/MGX 22
PASSIVE CROSSOVER NETWORK
FOR AUTOMOTIVE SPEAKERS

OWNER'S MANUAL

Impedance Compensated Generalised Frequency Response Curve:



Specifications:

CR 33

- 18 dB/OCTAVE TWEETER SLOPE
FREQUENCY: 4500Hz-20KHz
- 12 dB/OCTAVE MIDRANGE SLOPE
FREQUENCY: 700Hz-4500Hz CUTOFF
- 6 dB/OCTAVE WOOFER SLOPE
FREQUENCY: 20Hz-700Hz CUTOFF
- 200W MAX MUSIC 100W RMS POWER
- IMPEDANCE: 4 OHMS

MGX 33

- 18 dB/OCTAVE TWEETER SLOPE
FREQUENCY: 4500Hz-20KHz
- 12 dB/OCTAVE MIDRANGE SLOPE
FREQUENCY: 700Hz-4500Hz CUTOFF
- 6 dB/OCTAVE WOOFER SLOPE
FREQUENCY: 20Hz-700Hz CUTOFF
- 200W MAX MUSIC 100W RMS POWER
- IMPEDANCE: 4 OHMS

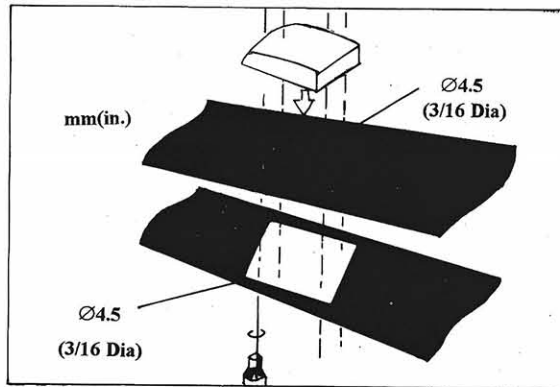
CR 22

- 18 dB/OCTAVE TWEETER SLOPE
FREQUENCY: 4500Hz-20KHz
- 12 dB/OCTAVE WOOFER SLOPE
FREQUENCY: 50Hz-4500Hz CUTOFF
- 200W MAX MUSIC 100W RMS POWER
- IMPEDANCE: 4 OHMS

MGX 22

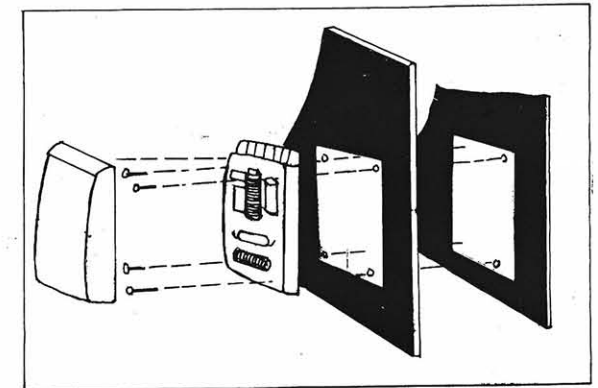
- 18 dB/OCTAVE TWEETER SLOPE
FREQUENCY: 4500Hz-20KHz
- 12 dB/OCTAVE WOOFER SLOPE
FREQUENCY: 50Hz-4500Hz CUTOFF
- 200W MAX MUSIC 100W RMS POWER
- IMPEDANCE: 4 OHMS

Be sure to read this instruction manual before installing the crossover.
Antes de instalar el altavoz lea estas instrucciones de manejo sin falta.



HOW AND WHERE TO INSTALL

Your choice in selecting one of the finest quality crossover networks for your speakers will bring you years of distinctive listening pleasure. The BOSCHMANN™ series networks are designed to work with most combinations of separate component drivers comprising tweeters, midranges, midbasses, woofers or even coaxial fullrange speakers in the industry. Incorporating the latest technology of Zobel-impedance circuit, these networks are built to match any speakers of any sizes so long they operate within the components frequency bandwidth spectrums of their respective drive nature. For example, a 6.5" midbass operates within the 60Hz-200Hz spectrum is acceptable. If a satellite speaker operates beyond the specified frequency spectrum you have to add a driver to operate beyond this spectrum. Example a 6"x9" speaker is being cut off at 4,500Hz with an external tweeter that operates above the 4,500Hz spectrum. Be sure the 6"x9" speaker covers the bandwidth as specified. To insure optimum performance or the most fidelity sound possible mount the crossovers in a cool or vented areas in the trunk. If you plan to mount the units inside door chambers, avoid vibrating panels or obstructions from winding mechanicals. They should be attached to flat non-porous surfaces. Mount the units as close as possible to the drivers and amplifiers to gain maximum current flow. Efficiency is thus increased. Avoid mounting on strong vibrating surfaces that will disrupt the performance or possibly damage the crossover on the long term effect. Do not mount the units near extreme high-temperature zones such as engine compartment. Avoid areas that are accessible to water flow or come into contact ie, under the bonnet.



PROCEDURE

Slowly remove the cover of the crossover with the tip of a finger. Do not use sharp utility such as knife or fork. Place the unit on the chosen place and mark the position of the four screw holes. Drill and screw the crossover in place. Simply snap on the cover back to its position. Connect the speakers and amplifiers with at least 16 AWG (gauge) of high quality precision OFC cables to each and every respective terminals firmly. Start the music on a moderate volume and slowly increasing the level on a constantly steady basis until your desired loudness.

NOTE: The performance or sound quality relies heavily on speakers quality. Whenever possible, use branded speakers or BOSCHMANN™ separates component drivers: MBS600, MBS500, MBS400 and variety of tweeters. Consult your BOSCHMANN™ dealers for our drivers.

If you discover a "pop" sound during radio turn on, it is not the cause of the crossovers. Check the amplifier and grounding circuit. Inferior amplifiers or insufficient grounding are major causes of this symptom.

Finally, maintenance should be practised on a regular basis to allow future driver upgrading improvement. Remember to always practise safe sound and enjoy your audio system.