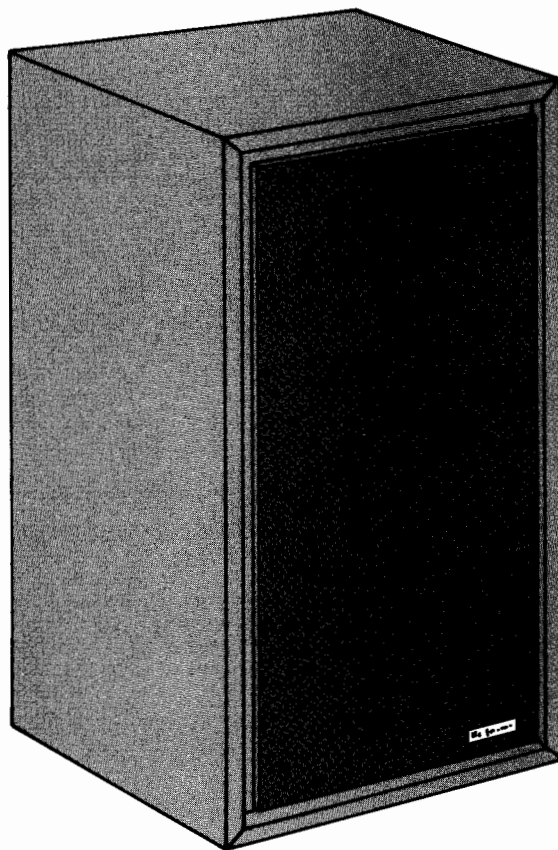


STEREOTECH

1

LOUDSPEAKER
SYSTEM



INSTRUCTION
MANUAL

SERIAL NUMBER BM1001 AND ABOVE

SPECIFICATIONS

CABINET SIZE

23" high 13" wide 10-11/16" deep

CONSTRUCTION

45 pound density non-resonant particle board panels.
Extra heavy 1 inch front panel. Heavy gauge 8 mil
vinyl. Simulated walnut finish.

SPEAKER SIZE

Woofer 10" dia. frame (7-3/4" dia. radiator)
Tweeter 2" radiator

POWER HANDLING: Sine wave steady state

SHIPPING WEIGHT

39 lbs.

SYSTEM WEIGHT

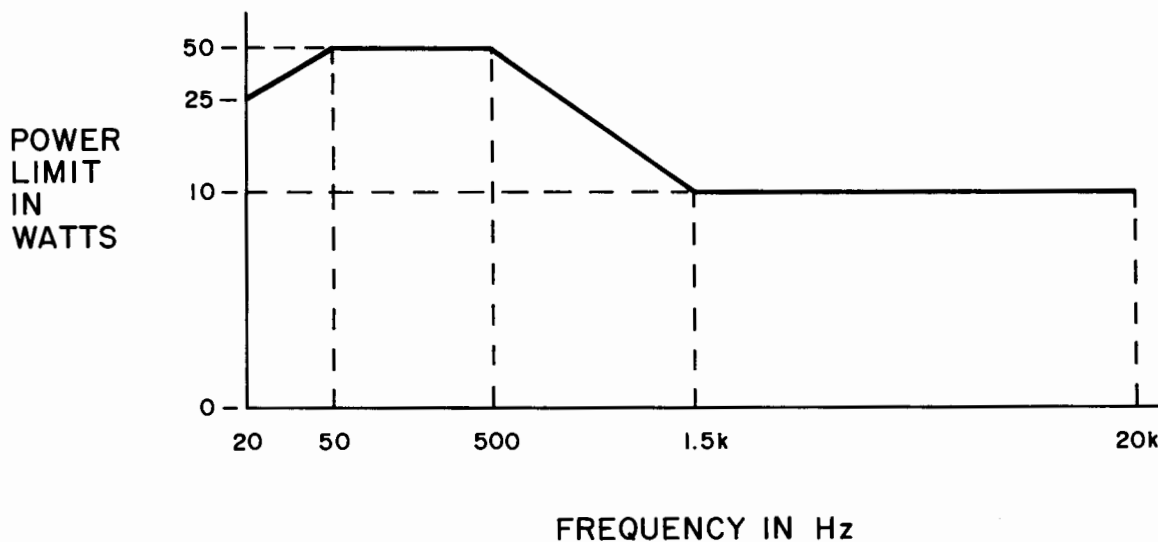
32 lbs.

CROSSOVER FREQUENCY

1500Hz

IMPEDANCE

8 Ω Nominal



Avoid operating the speaker system with sustained sine wave signals at power levels greater than the indicated limits. Permanent damage may result.

POWER HANDLING: Program Material

High energy peaks normal to orchestral music are easily and faithfully reproduced by the speaker system. These peaks are of relatively short duration and do not produce the heating effect caused by sustained tone operation. The Stereotech 1 speaker system will handle up to 70 watts of orchestral music program material. Care must also be taken to use a power amplifier that has an adequate power rating. If a low power amplifier is used, the loudest passages may be "clipped" by the amplifier. This clipping will cause the speaker to sound distorted. The large harmonic content of a badly "clipped" signal can cause excessive heating and resulting damage to the high frequency speaker element.

OUTPUT LEVEL

At 1 meter in a non-reflecting environment, the system will nominally produce an 89dB sound pressure level when driven with 1 watt referred to 8 Ω .

LISTENING QUALITY

Smooth response has been achieved by careful design under controlled laboratory conditions. The performance of the speakers in your listening room may be influenced to some degree by the room size, shape, construction, and furnishing. The location of the speakers in the room will also affect listening quality. The additional features of low distortion and wide dispersion will help to provide superior sound in a typical listening environment.

CONNECTIONS

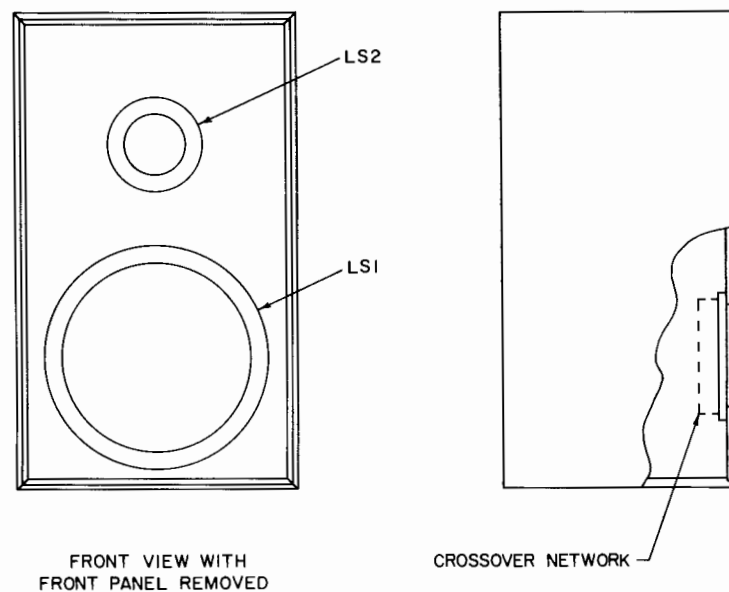
Use heavy gauge wire (#18 AWG or larger) when connecting the speaker system to the power amplifier. The system leads preferably should have less than 0.4 ohms resistance and not more than 0.8 ohms resistance. (62 feet of #18 wire has 0.4 ohms resistance. This corresponds to 31 feet of two conductor wire.)

Be sure to observe polarity when connecting the speaker system and power amplifier leads to maintain proper stereo perspective.

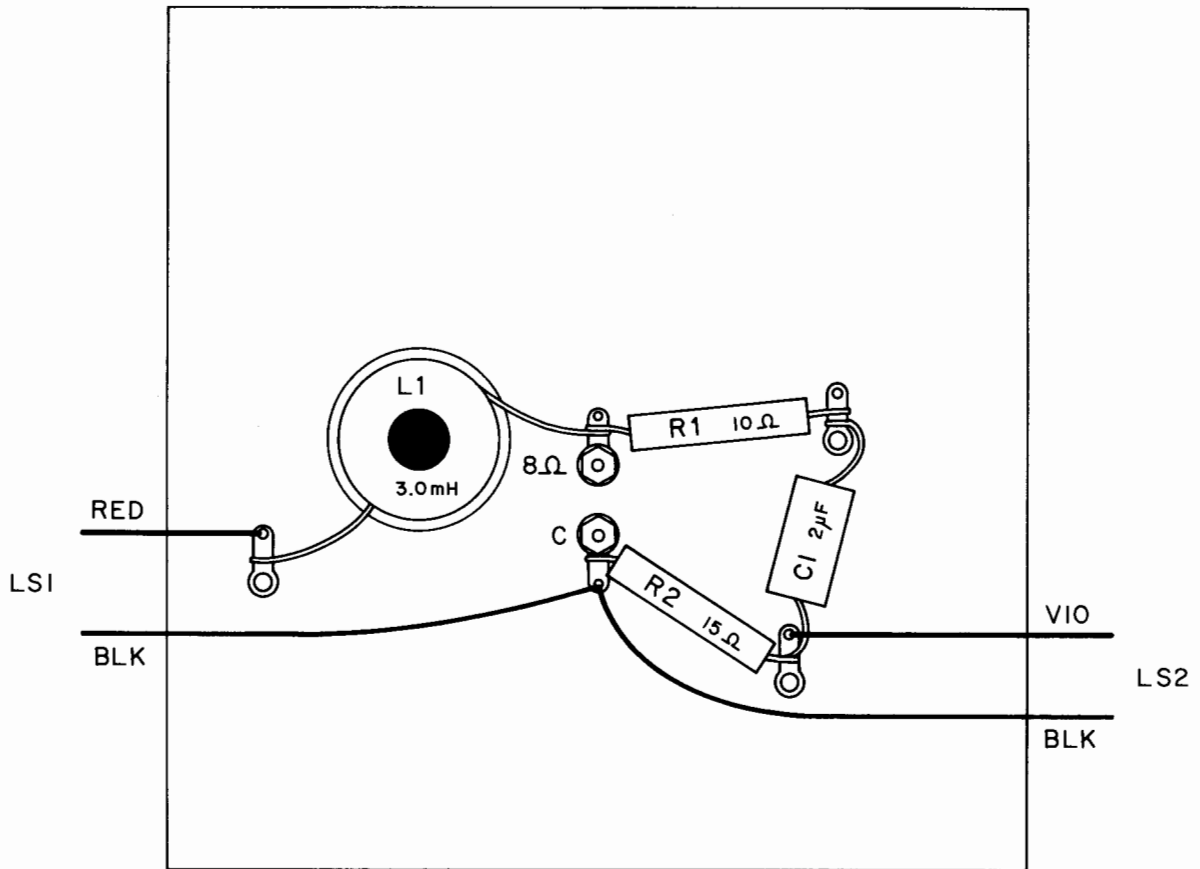
SERVICE NOTES

1. Speaker element failure can be quickly located by using FM hiss at a low power level. Listen at each speaker to verify if all the speakers are at least working. A low power (1-5 watt) sine wave sweep 20-20kHz can be used as a quick check for distortion. A speaker element with obvious distortion must be replaced.
2. To determine if the speaker element is dead, remove the speaker and momentarily connect a 1-1/2 -6V battery across the terminals. If no sound is heard, the speaker element must be replaced.
3. The crossover network must be inspected when burned out speaker elements are replaced. The network must also be inspected if a speaker element produces sound with the battery test but does not play when connected in the system. The woofer must be removed to get to the crossover. Check for burned resistors, bad connections, broken wires, etc.
4. After soldering a replacement crossover element into the circuit, use RTV Silicone rubber adhesive to insure a vibration free bond to the board.
5. Use only Stereotech replacement capacitors. These have been specially selected for low ESR.
6. The colored wire (other than black) always goes to the red marked terminal on the speaker. This is the positive terminal. If the polarity of a speaker is unknown, momentarily connect a 1-1/2 - 6V battery to the terminals. When the cone moves away from the magnet, it means the + terminal of the battery is connected to the + terminal of the speaker.
7. When installing speakers or crossover network in the cabinet, care must be taken to insure a tight air seal to the cabinet. Replace the foam gasket if necessary. Mortite caulking compound or equivalent could be substituted but care must be taken that it will not be visible after the part is installed.
8. If the woofer screw strips out in the wood of the cabinet, the speaker can be rotated and new mounting holes drilled.
9. After the system is reassembled, it must be checked for air leaks. This can be done by putting a 20Hz sine wave into the system at 20 watts. By listening around the speakers closely for hissing sounds, areas can be located that must be sealed. The system must also be swept from 20Hz to 250Hz at 20 watts to insure there are no vibrations due to wires hitting the woofer cone, etc.
10. All defective parts must be packed well and returned to the Stereotech Division.

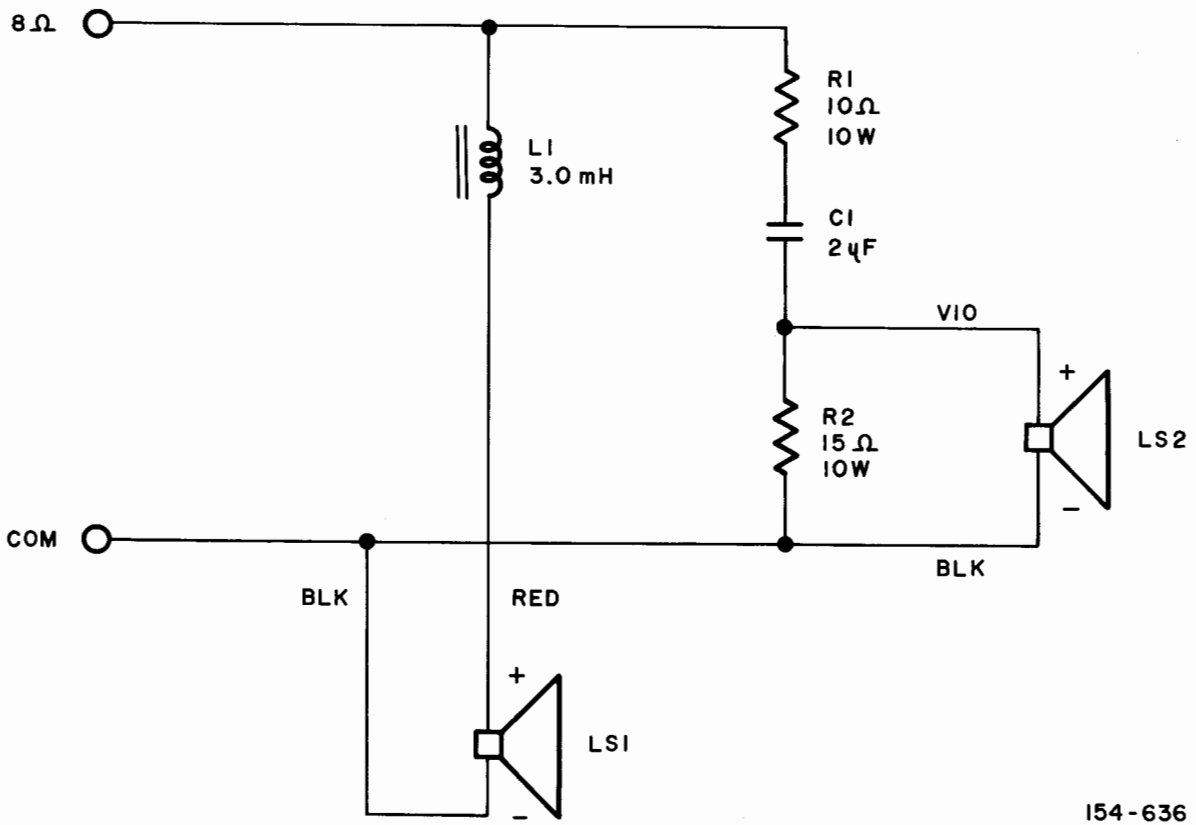
SPEAKER LOCATION



CROSSOVER NETWORK



ASSEMBLY 044-723



154-636

SYSTEM SCHEMATIC

REPLACEMENT PARTS

Replacement parts may be obtained when ordered
by PART NUMBER from:

Stereo Technology Division
1010 Conklin Rd.
R.D. #1 Box 413A
Conklin, N. Y. 13748

CAPACITORS

Symbol Number	Description	Part Number
C1	Mylar 2 μ F	064-125

CHOKES

L1	Choke 3.0mH	122-120
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RESISTORS

R1	Wirewound 10 Ω 5% 10W	139-089
R2	Wirewound 15 Ω 5% 10W	139-107

LOUDSPEAKERS

LS1	10" Woofer	036-036
LS2	3-1/8" Tweeter	036-037

MISCELLANEOUS ITEMS

Terminal - Red	084-094
Terminal - Black	084-095
Shipping Carton	033-199
Polybag	033-201
Cloth Front Panel: Assy.	044-787
Gasket: 10" woofer	094-098
Gasket: 3-1/8" tweeter	094-109
Gasket: Network	094-105

STEREO TECHNOLOGY DIVISION

1010 CONKLIN RD.
RO 1 BOX 413A
CONKLIN, NEW YORK 13748