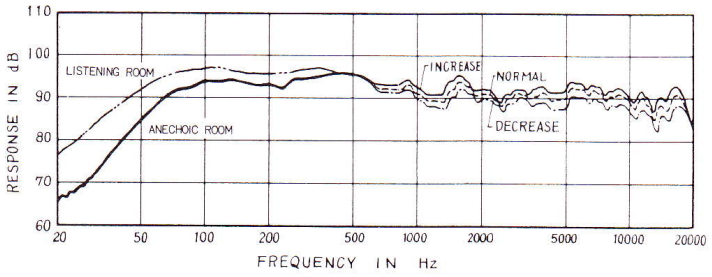
SPEAKER SYSTEM

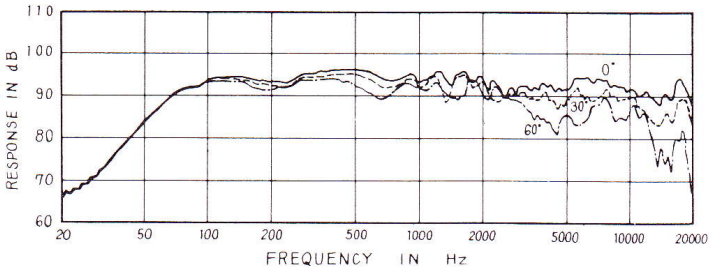
CS-A700

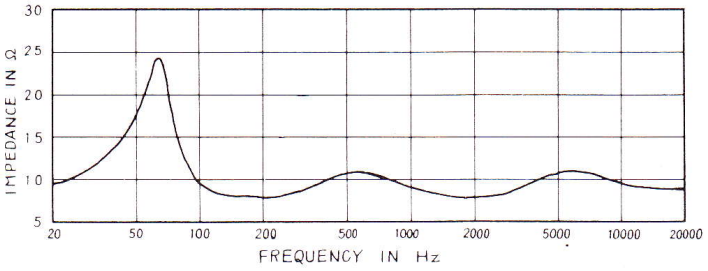
1. SPECIFICATIONS

Enclosure:	Totally enclosed type
Speakers:	
Woofer	12"(30cm) cone type
Mid range	5"(12cm) cone type
Tweeter	Multi-cellular horn type
Input impedance:	8 ohms
Frequency range:	35 to 20,000Hz
Sensitivity:	95dB/W at 1m distance
Maximum inputpower:	60W
Crossover frequency:	
Lows . . . . . Mid ranges	500Hz
Mid ranges . . . . . Highs	5,000Hz
(In case multi-channel amplifiers are used)	
2-channel amplifiers:	
Lows . . Mid-ranges and Highs	500 to 1,000Hz
3-channel amplifiers:	
Lows . . . . . Mid ranges	500 to 1,000Hz
Mid ranges . . . . . Highs	4,000 to 6,000Hz
External dimensions:	660(H) x 380(W) x 320(D)mm
	26"(H) x 15"(W) x 12 19/32"(D)
Weight:	16,9kg (37 lb3 oz)

NOTE: Specifications and the design subject to possible modification without notice due to improvements.







V. REPLACEMENT OF NETWORK UNIT

a. Remove all of the speakers according to Item 2.
b. Remove all screws from the back board.
Now, the board is still held to the back of the cabinet by 4-pinch clips inside of the cabinet, two on the upper side and two on the lower side.
c. Remove the back board by gently rapping on both its upper and lower sides through the opened speaker hole in the baffle.
d. After removal of the back board, disconnect all lines.
The network is secured firmly by means of a binding agent as well as tackers. If only a coil or a capacitor has been damaged, it is advisable to renew only the damaged part. Should the network be replaced, insert a minus screw driver or the like, between the back panel and the network and, gradually, remove the network.
e. While attaching the network board to the back board, secure it tightly using a binding agent as well as tackers.
If tackers are not available, wood screws will do.
f. After the network has been exchanged and attached to the back panel, re-connect all wires to their respective terminals again.
g. Insert the panel into the cabinet frame again, and screw it tightly to the cabinet.

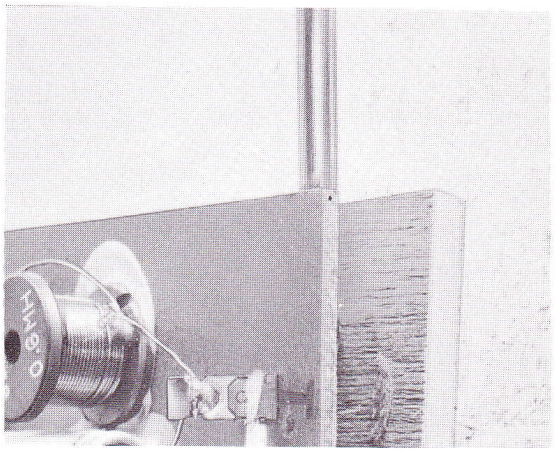


Photo 3

VI. REPLACEMENT OF INPUT TERMINALS (BLUE AND WHITE)

a. Remove the middle range speaker according to Item 2-II
Remove screws with a plus screwdriver from the opened speaker hole shown in the photo
b. In so doing, care should be taken not to drop the screws.
Then, the terminal can be replaced.
The leads should be connected to the respective terminal side.
Blue terminal is for the positive and White one is for the negative terminal.
After connection of the terminals, apply a binding agent or the like on the screws to prevent them from loosing.

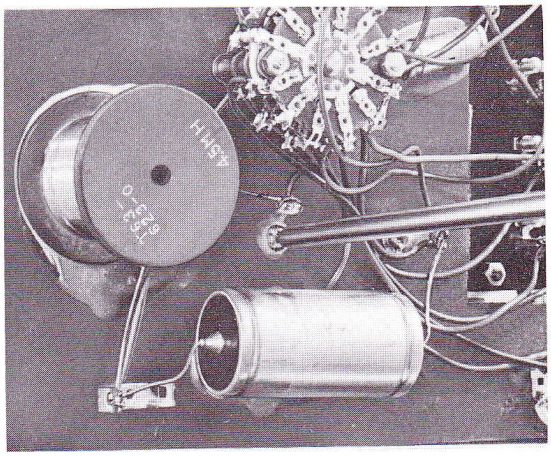


Photo 4

2. REPLACEMENT OF SPEAKER UNIT

I. 12''WOOFER

a. Remove screws holding the speaker, and pull it out gently toward you. **(Photo 1)**
b. Pull the Blue and White speaker leads off from the speaker terminals. **(Photo 2)**
c. Mounting of NEW speaker. Push the Blue lead end onto the Red terminal. Mount the NEW speaker onto the baffle board. Screw speaker tightly onto the baffle board.

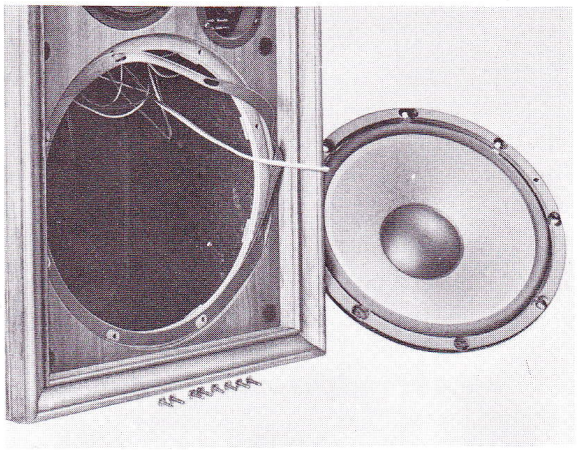


Photo 1

II. 5''MID-RANGE

a. Remove screws holding the speaker, and pull it out gently toward you.
b. Pull the Green and White leads off from the speaker terminals
c. Mounting NEW speaker. Push the Green lead female end onto the Red side male end of the speaker terminal. Then, mount the NEW speaker onto the front baffle board. Screw the speaker tightly onto the baffle board.

III. MULTI-CELLULAR HORN TYPE SPEAKER

a. Remove screws holding the speaker, and pull it out gently toward you.
b. Pull the Red and White leads off from the speaker terminals.
c. Mounting of NEW speaker. Push the Red lead female end onto the Red side male end of the speaker, and push the White lead female end onto the other male end of the same speaker terminal.
Then, mount the NEW speaker onto the baffle board.
Screw speaker tightly onto the baffle baord.

IV. CARE TAKEN TO REPLACE A SPEAKER

a. The speakers of low and middle ranges are of the cone type; hence, if their cone or cap should become damaged, the tone quality will be affected significantly. Therefore, carefulness should be used while removal from cabinet and, again, installed in the cabinet.
b. Viewing it from the back side, the terminals are always to identify the bottom side of **the horn speaker. The positive terminal (Red side) is always to the right side of the speaker and the negative terminal is always to the left side of the speaker.**

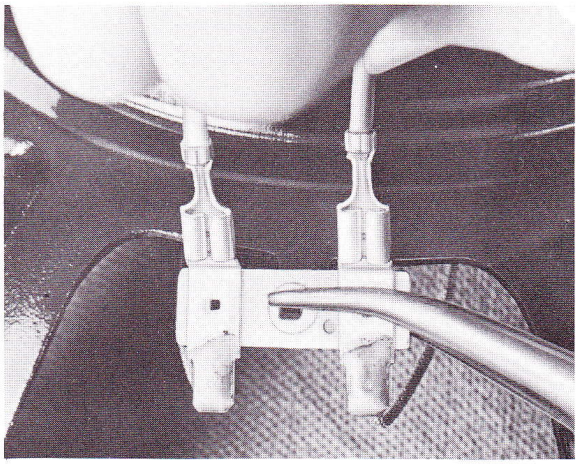
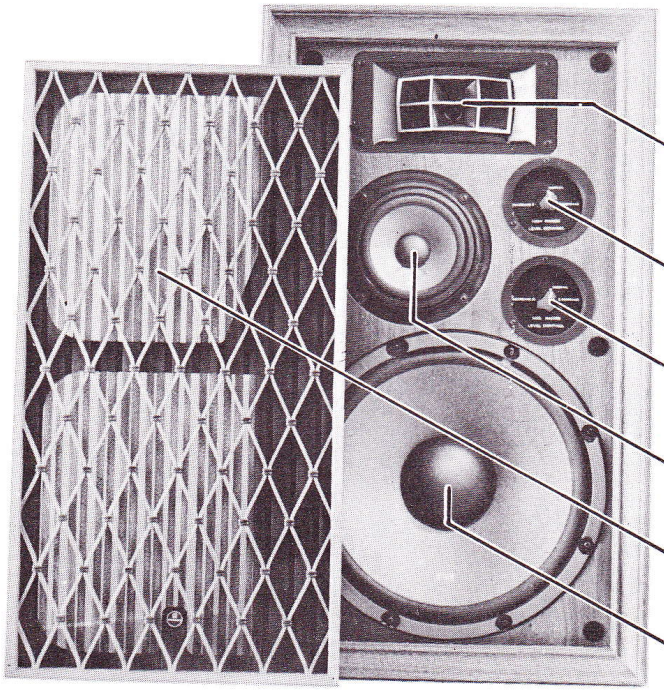


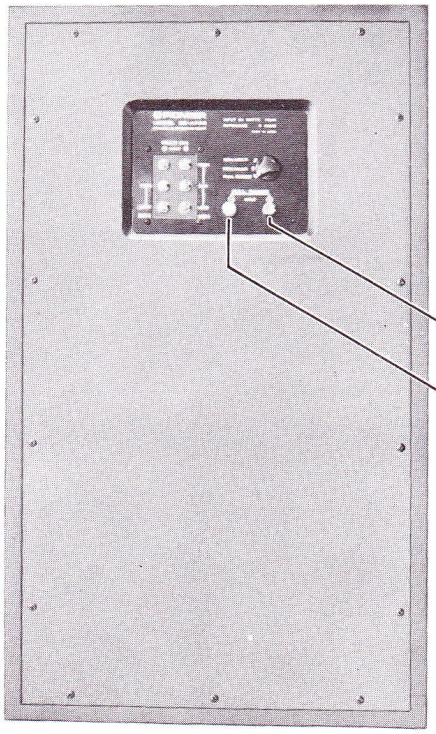
Photo 2

3. PARTS IDENTIFICATION

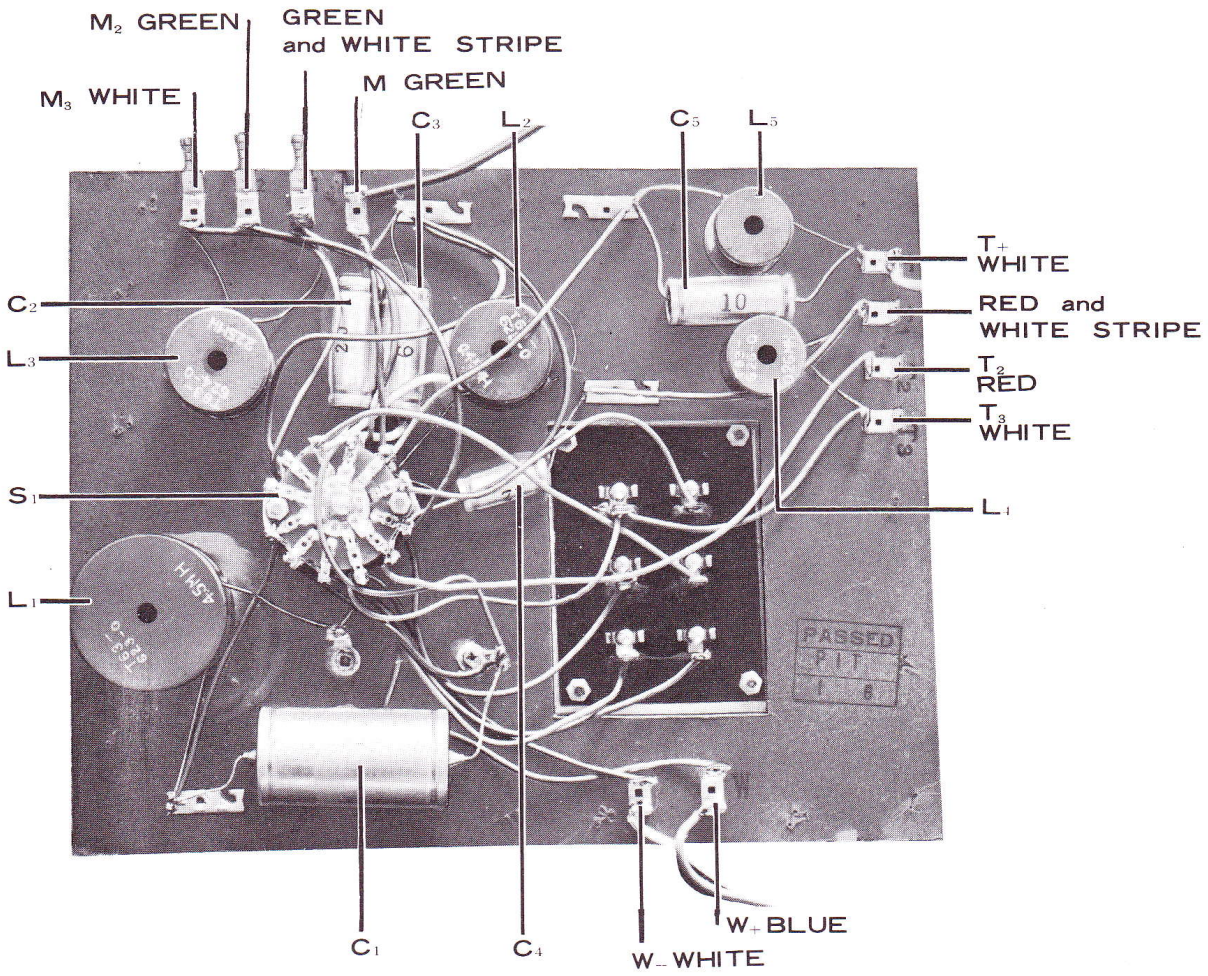
FRONT VIEW



REAR VIEW



ACTUAL APPEARANCE OF NETWORK



SERVICE PARTS LIST

DESCRIPTION	PART NO.
Woofer	Y30-61F or Y30-709F
Mid-range	Y12-101F
Tweeter	YPT-405F
Lattice baffle	YW75-604-0
Network	YW17-618-0
Input terminal (BLUE)	YK15-612-B
Input terminal (WHITE)	YK15-612-C
Knob	YA19-621-0
Packing case	YH35-608-0
Level control (High Range)	YW18-602-0
Level control (Mid Range)	YW18-603-0

5. OPERATIONAL CHECKS OF SPEAKER SYSTEM

Your speaker system should be checked by the following procedures

1. Connect the test equipment arranged as shown in Fig. 1.
2. Set the INPUT SELECTOR switch to FULL RANGE.
3. When an 8kHz/2V-sine wave from the oscillator is transmitted into the FULL RANGE INPUT terminals, the tweeter should sound well.
4. When a 2kHz/2V-sine wave from the oscillator is transmitted into the FULL RANGE INPUT terminals, the mid-range should sound well.
5. When a 400Hz/2V-sine wave from the oscillator is transmitted into the FULL RANGE INPUT terminals the woofer should sound well.
6. Be sure that each speaker (tweeter, mid-range, and woofer) sounds well-balanced in each range when sine waves from the oscillator are transmitted into the FULL RANGE INPUT terminals in a range from 35 to 20,000Hz.
7. In checking Items 3 and 6, be sure that HIGHS keep sounding well-balanced while the level control for highs is being gradually turned.
8. In checking Items 4 and 6, be sure that MID-RANGE keeps sounding well-balanced while the level control for the MID-RANGE is being gradually turned.
9. Set the INPUT SELECTOR switch to 2-CH MULTI.
10. Transmit an output from the test equipment into HIGH RANGE.
11. Check Items 3, 4 and 7.
12. Transmit an output from test equipment into LOW RANGE.
13. Check Item 5.
14. Set the INPUT SELECTOR switch to 3-CH MULTI.
15. Transmit a sine wave into HIGH RANGE to check Item 3.
16. Transmit a sine wave into MID-RANGE to check Item 4.
17. Transmit a sine wave into LOW RANGE to check Item 5.

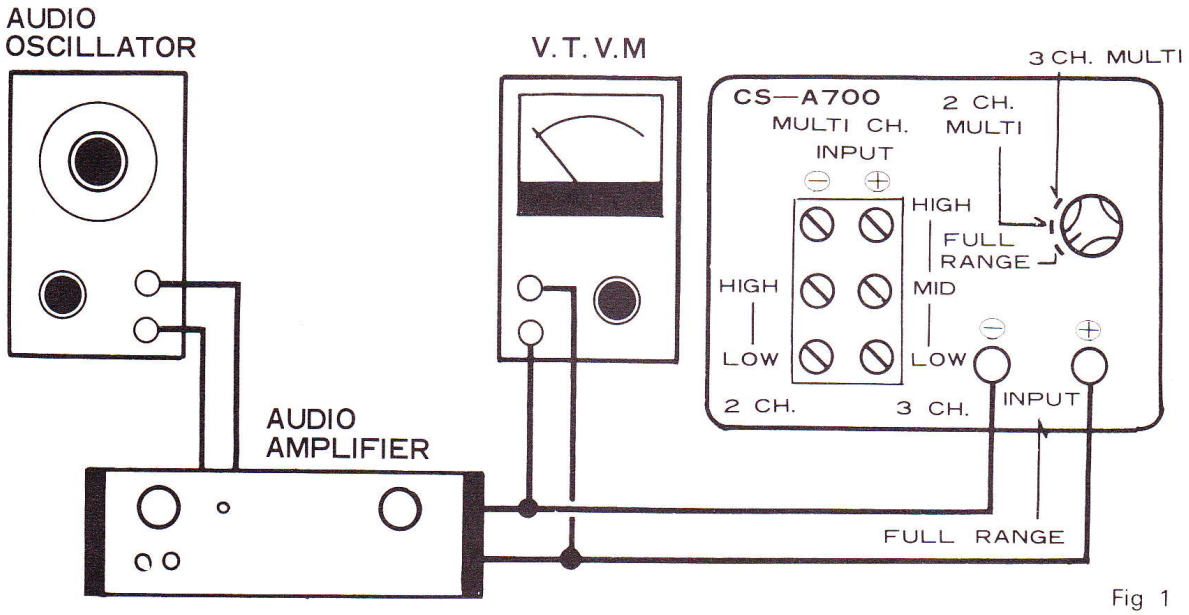
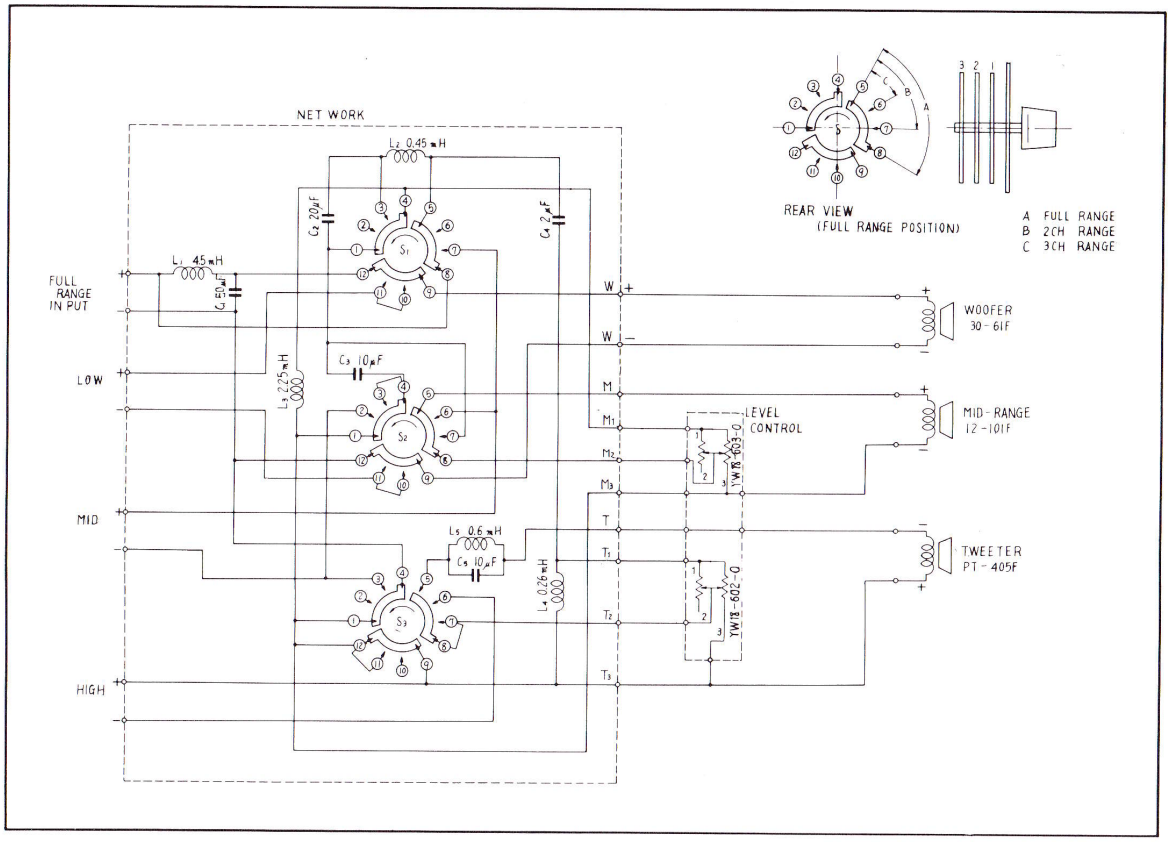
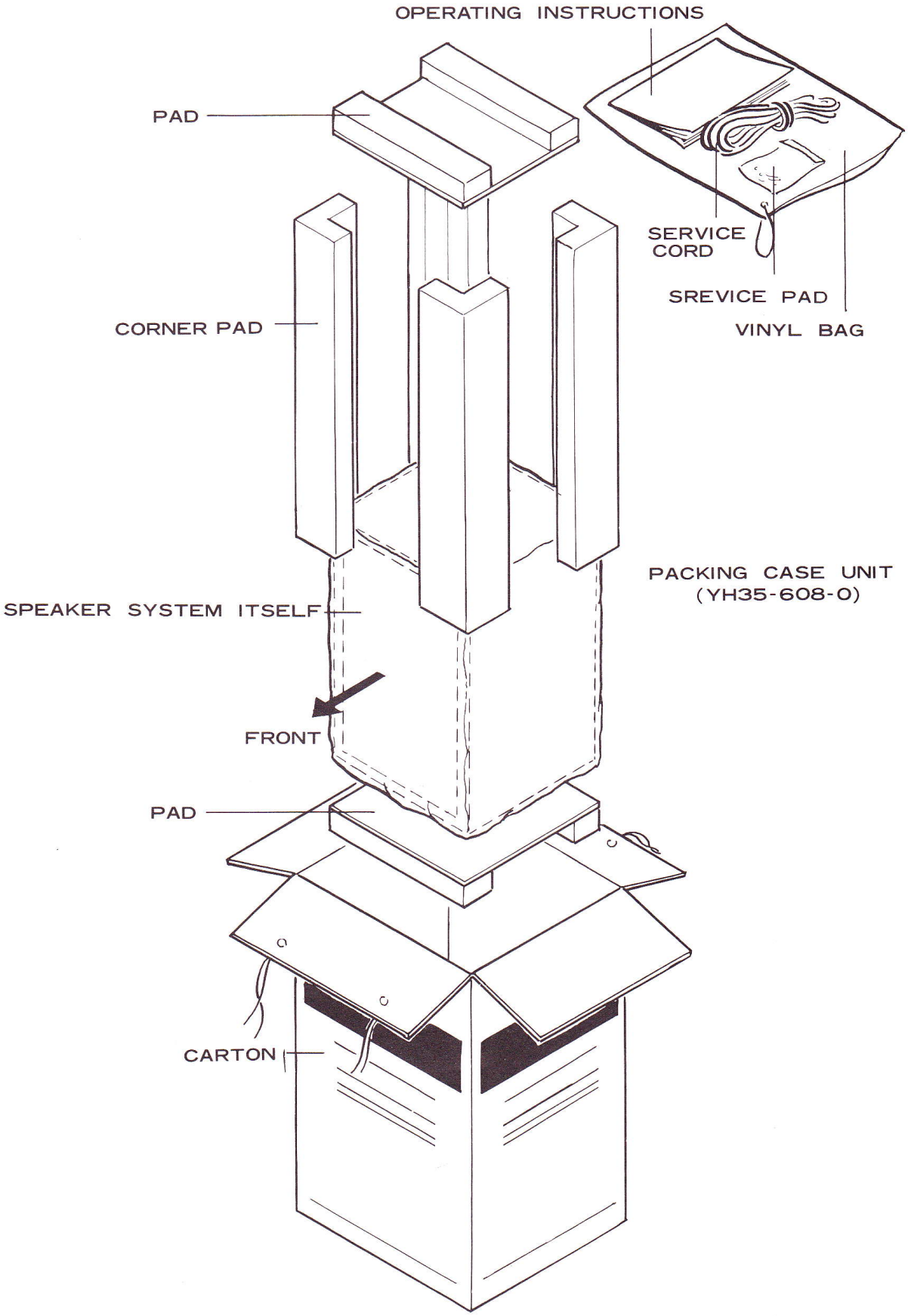


Fig 1

4. CIRCUIT DIAGRAM



6. PACKING PROCEDURE



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