

# SPEAKER SYSTEMS

# HPM-100

<ART-168-0>

## *Service Manual*

ART-168  
S/M HPM-100

10224944

SM0710

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INV: 31519829

MP: 0108B-13



 **PIONEER**<sup>®</sup>

# SPECIFICATIONS

Enclosure . . . . . Book-shelf style, Bass-reflex type  
 System . . . . . 4-speaker, 4-way system

**Loudspeakers:**

Woofer . . . . . 30cm (12 in) cone type, carbonfiber cone  
 Mid-range . . . . . 10cm (4 in) cone type  
 Tweeter . . . . . 4.5cm (1-3/4 in) cone type  
 Super tweeter . . . . . High-polymer type

Nominal Impedance . . . . . 8Ω

Frequency Range . . . . . 30 – 25,000Hz

Sensitivity . . . . . 92.5 dB/W at 1m distance

Maximum Input Power . . . . . 100W

Rated Input Power . . . . . 50W

Crossover Frequency . . . . . 3,000Hz, 4,000Hz, 12,000Hz

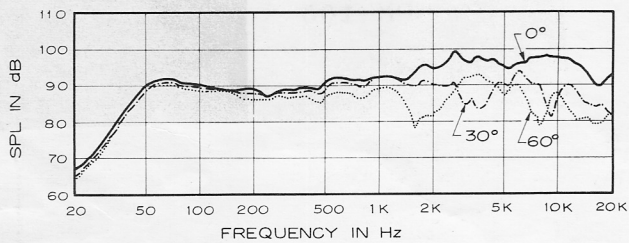
External Dimensions . . . . . 390(W) x 670(H) x 393(D)mm  
 15-3/8(W) x 26-6/16(H) x 15-15/32(D)in

Weight . . . . . 26.7kg/58 lb 12 oz

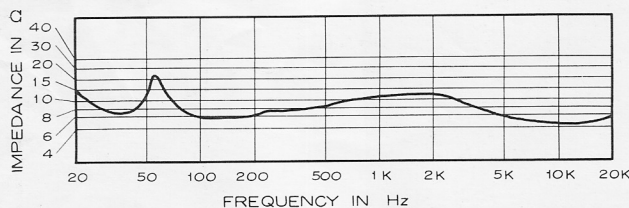
**NOTE:**

*Specifications and design subject to possible modification without notice, due to improvements.*

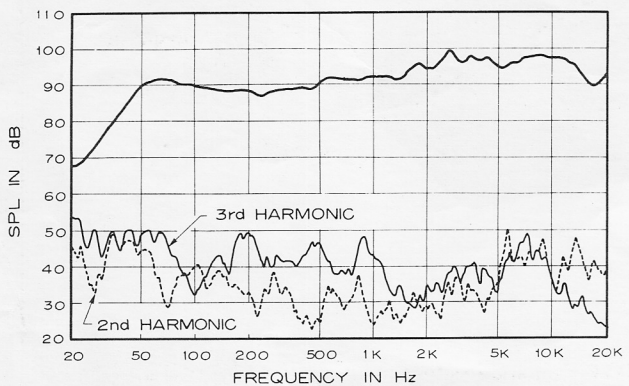
**FREQUENCY RESPONSE**



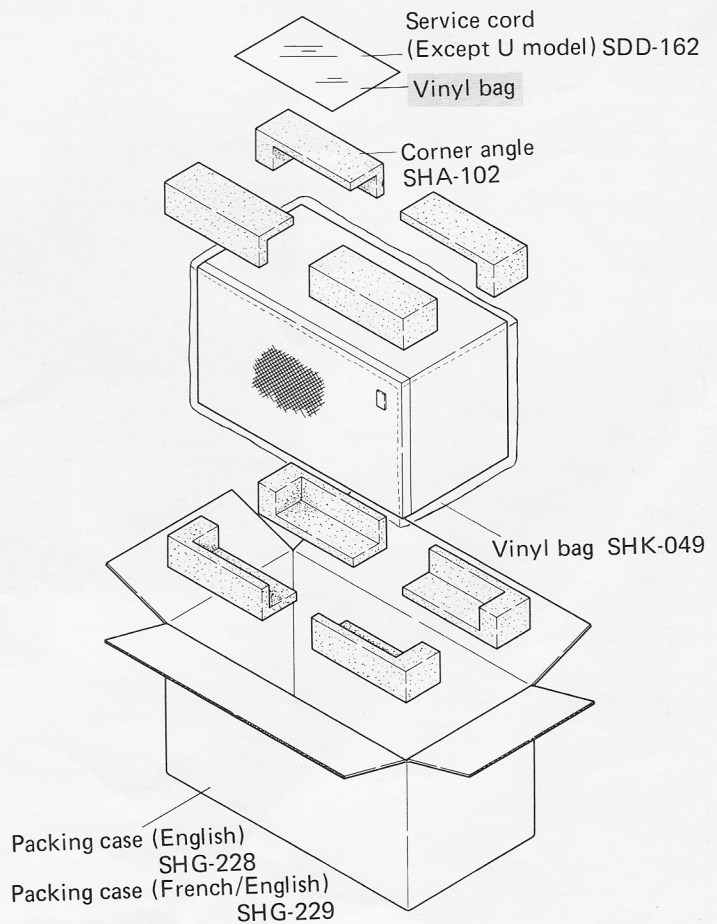
**IMPEDANCE**



**HARMONIC DISTORTION**



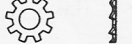


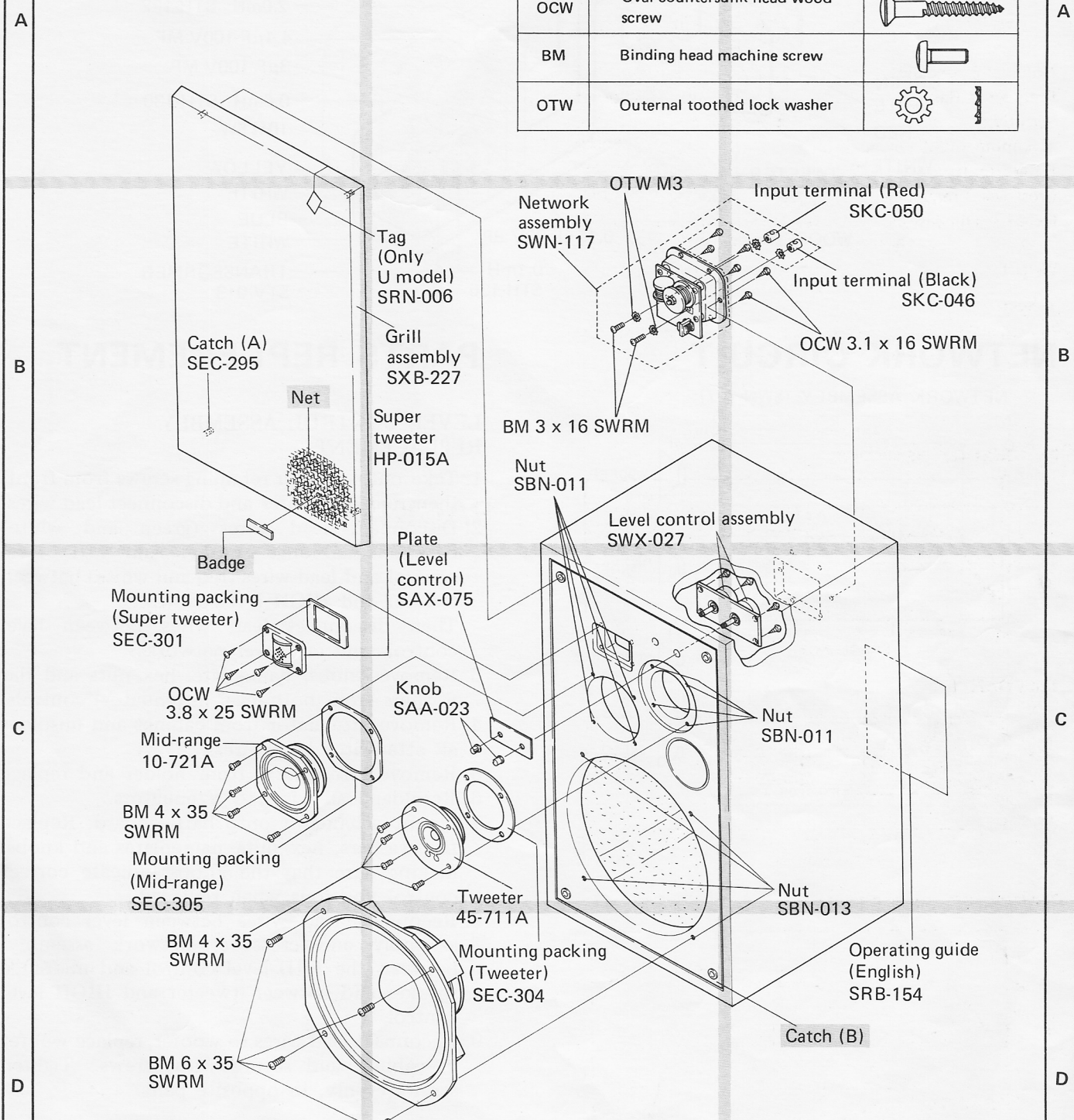
# PACKING



# EXPLODED VIEW AND PARTS

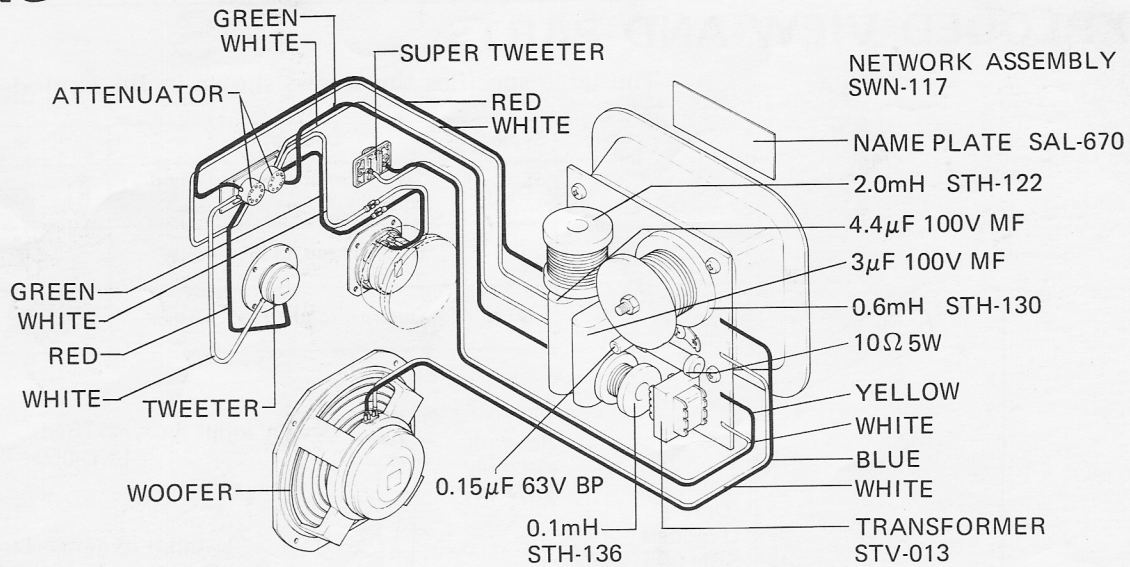
The table specifies the screws shown in the exploded view.

Symbol	Description	Shape
OCW	Oval countersunk head wood screw	
BM	Binding head machine screw	
OTW	Outernal toothed lock washer	

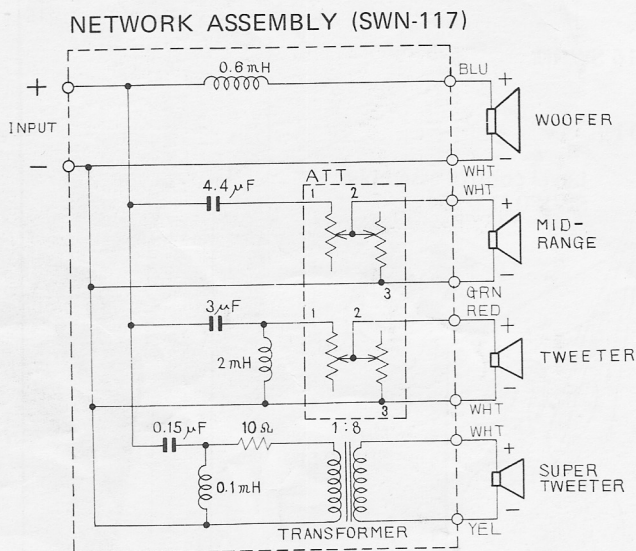


NOTE: Shaded names mean parts cannot be supplied.

# WIRING



## NETWORK CIRCUIT



## PARTS REPLACEMENT

### LEVEL CONTROL ASSEMBLY REPLACEMENT

1. Take out 4 woofer retaining screws from front, then remove woofer and disconnect lead wires.
2. Disconnect lead wires (green and white) between mid-range speaker and MID level control and lead wires (red and white) between tweeter and HIGH level control. Then disconnect lead wires between level controls and crossover networks.
3. Remove knobs, nameplate, hex nuts and flat washers from both level (attenuator) controls.
4. Remove attenuator from cabinet and unsolder all attenuator lead wires.
5. Remove attenuators from holder and replace.
6. Resolder lead wires to attenuators.
7. Mount attenuator onto baffle board. Replace flat washers, hex nuts, nameplates and knobs, making sure that the knobs indicate correct control positions when replaced.
8. Reconnect lead wires between level control assembly and crossover network assembly, between the MID level control and midrange speaker and between tweeter and HIGH level control.
9. Reconnect lead wires to woofer, replace woofer in cabinet and secure with screws. Tighten screws evenly, in opposite pairs.

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