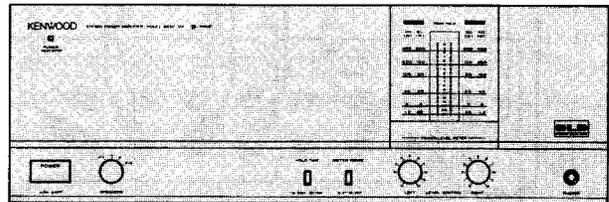


STEREO POWER AMPLIFIER

BASIC M2

INSTRUCTION MANUAL



WARNING:
TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

<p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p>	<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>
	<p>The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>
	<p>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>

Dear audio fan

The purpose of this manual is to acquaint you with the operating features of your new amplifier. You will notice that in every detail of planning, engineering, styling, operating convenience, and adaptability, we have sought to anticipate your needs and desires.

We suggest that you read this manual carefully. Knowing how to set up your amplifier to the best advantage will enhance your listening pleasure right from the start. You will also become aware of the ease with which you can adjust your amplifier to meet your special requirements.

Contents

Before operation	3
System connections.....	4
Controls, indicators and connectors	6
In case of difficulty.....	6
Block diagram	7
Specifications.....	8

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your Kenwood dealer for information or service on this product.

Model BASIC M2 Serial number _____

Unpacking

Unpack the unit carefully and make sure that all accessories and cables are put aside so they will not be lost. Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage. We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

IMPORTANT!

U.S.A. and Canada

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only. These units are not equipped with AC Voltage Selector switch and the discussion of such a switch that follows should be disregarded.

All other countries

Units shipped to countries other than the U.S.A. and Canada are equipped with an AC Voltage Selector switch on the rear panel.

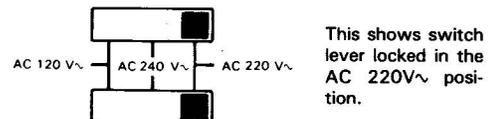
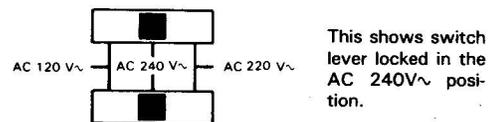
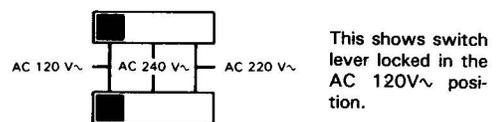
Refer to the following paragraph for the proper setting of this switch.

AC voltage selection

This unit operates on 120 volts, 220 volts or 240 volts AC. The AC Voltage Selector Switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC Voltage Selector Switch.



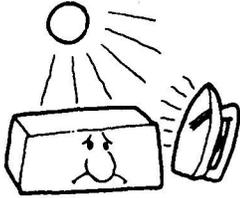
Move switch lever to match your line voltage.

AC voltage selector switch

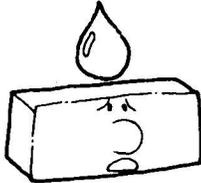
Before operation

Notes on installation

Do not place the unit in a place which is exposed to direct sunlight, near a heating appliance, etc.



Do not place a vase containing water, makeup, etc. on the unit. Do not use in a humid place.



To maintain good ventilation, do not put records or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.



Choose a location that is relatively free from vibration or excessive dust.



Safety precautions

Never remove the case. If the internal parts are touched, accidentally, a serious electric shock might occur.

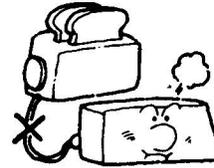


Never touch internal parts.

If a metal object, such as a hair pin or a needle, comes into contact with the power socket on the rear panel, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.

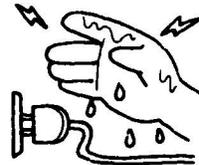


Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster.



Never connect other electrical appliances.

Touching the power plug when your hands are wet may result in a serious electric shock.



Never touch with wet hands.

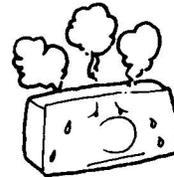
Never pull, bend or extend the power cord. This could damage the power cord, resulting in a broken cord or short-circuit.



Always grasp the plug.

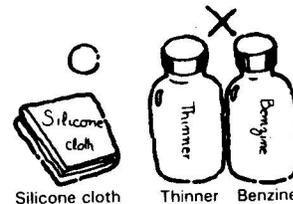
In case of abnormal smell

If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest Kenwood Service Station.



Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, benzine, etc. to clean the cabinet. Use a silicone cloth or a clean dry cloth.

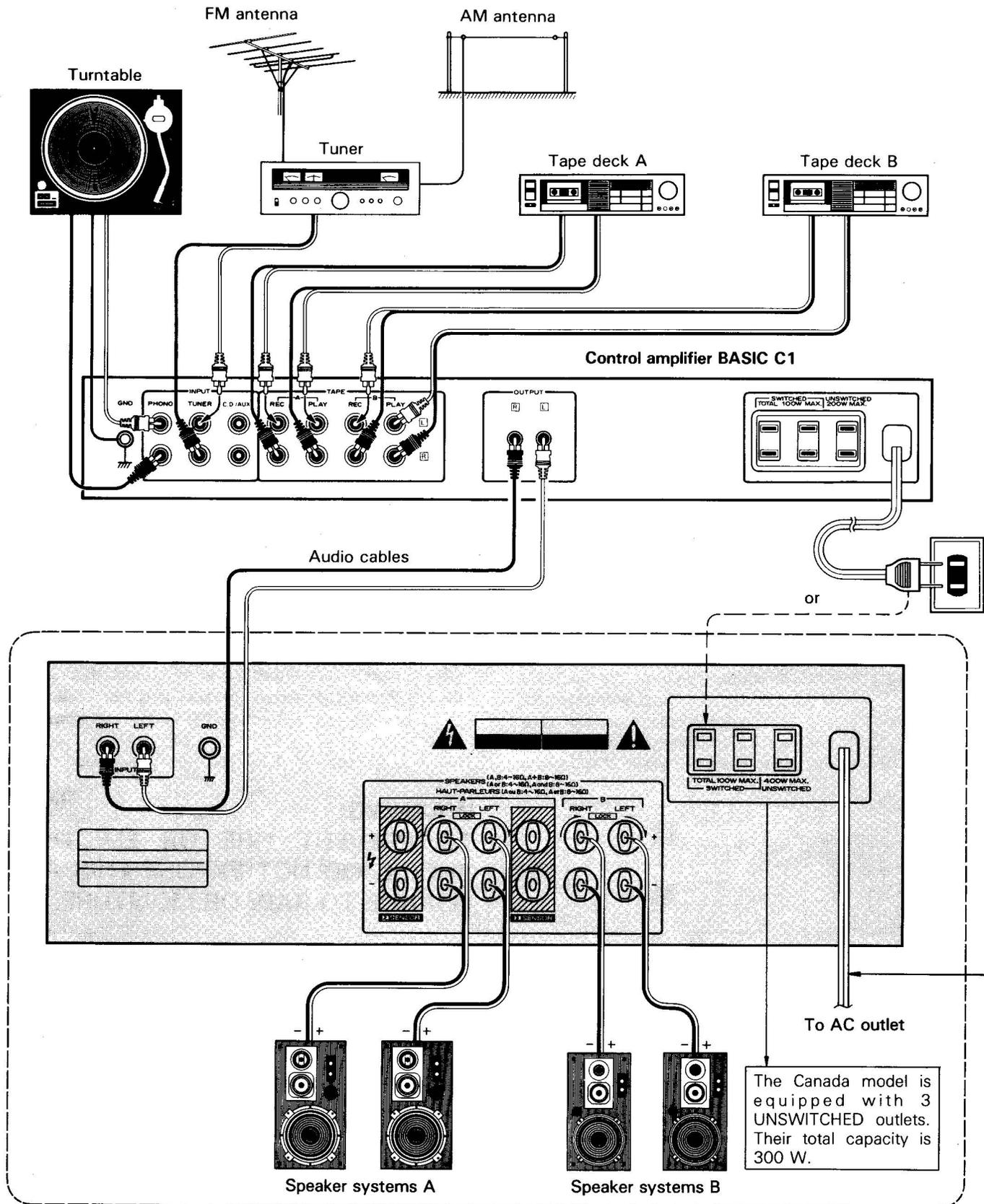


Silicone cloth Thinner Benzine

Thermal protector

This unit employs a thermal protector which automatically shuts off the power if the temperature inside the amplifier becomes unusually high. The protector automatically restores the power when the temperature drops to the normal level and the cause of the unusual temperature rise must be removed before the power is restored. Unusually high temperatures may be caused by continuous driving of low-impedance speaker systems at high power or shorted output circuit.

System connections



BASIC M2

Safety precaution for AC plug (for Canada)

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE

Speakers

This amplifier has two pairs of speaker terminals, SPEAKERS A and SPEAKERS B.

Connecting one speaker system

Connect speakers rated at 4 ohms or more to the SPEAKERS A terminals.

Although ordinary speaker cords can be connected to the SPEAKERS A terminals, the Σ drive system will reproduce better sound with the Σ cords connected to the SPEAKERS A terminals.

Connecting two speaker systems

To connect an additional pair of speakers, use the B terminals. In this case, each speaker must be rated at 8 ohms or more.

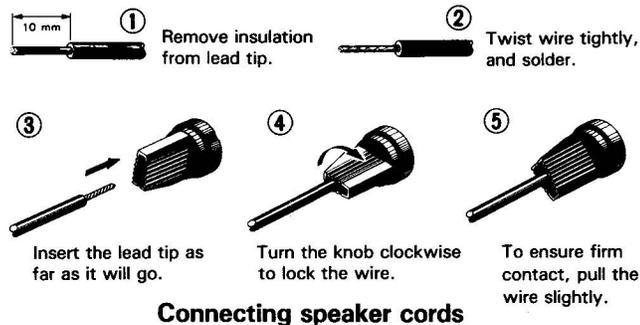
Connecting an ordinary speaker system

Connect the left speaker to the LEFT SPEAKERS A or B terminals and the right speaker to the RIGHT SPEAKERS A or B terminals.

At this time, be sure to connect the (+) terminals of the speakers to the (+) terminals of the amplifier and (-) terminals in the same manner respectively.

Notes:

1. The tips of the connected wires should not touch adjacent terminals.
2. If the SPEAKERS A terminals are connected with ordinary cords, connect only inner terminals but not Σ SENSOR (shaded) terminals.



Warning!

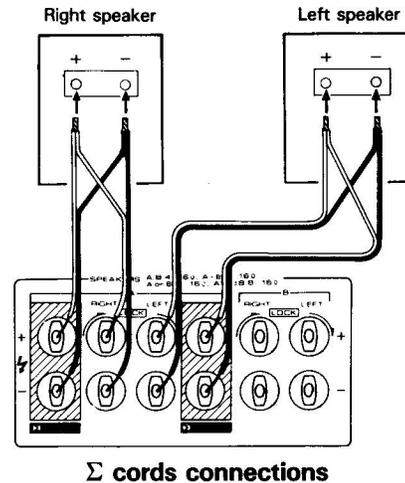
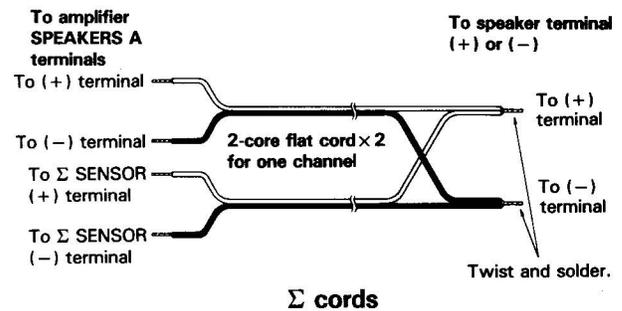
Particular attention must be given to making good electrical contact at the amplifier-output and speaker terminals. Poor or loose connections can cause sparking or burning at the terminals because of the very high power that the amplifier can deliver.

Connecting Σ cords

Prepare the Σ cords as shown in figure. The figure " Σ cords" below shows one channel cords for Σ drive. Two of these cords are needed for both channels. Connect each end of the Σ cords to the correct terminal of the amplifier and speaker as shown in the figure " Σ cords connections".

Note:

Never connect the amplifier end of the Σ cords to same polarity terminals (Σ SENSOR (+) to (+) terminal, or Σ SENSOR (-) to (-) terminal).



INPUT jacks

Connect these jacks and the OUTPUT jacks of a control amplifier with audio cables equipped with pin plugs on each end.

Note:

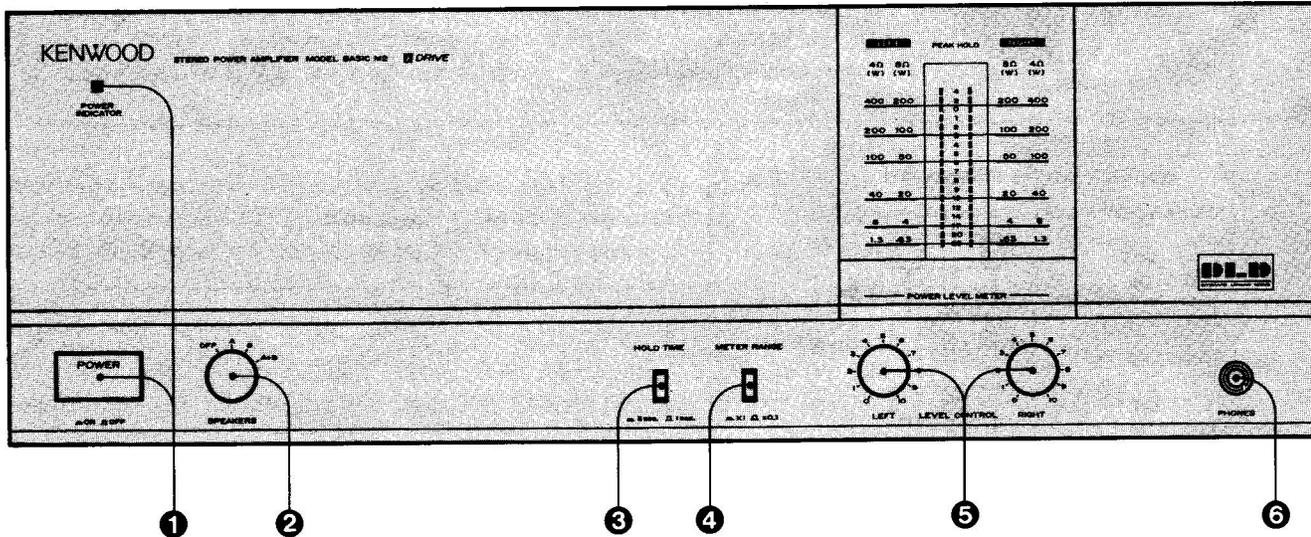
To prevent possible trouble, always disconnect the power plug or turn off the POWER switch before connecting or disconnecting the audio cables.

AC outlets

The AC outlets on the rear panel may be used to supply power to other components in the system, such as turntables, tape decks, etc. Never connect equipment whose power consumption exceeds the maximum value shown at each outlet.

1. **SWITCHED outlets:** These outlets supply power only when the unit is turned on. The maximum total capacity (both outlets) is 100 watts.
2. **UNSWITCHED outlet:** The outlet provides power when the unit is plugged into an active AC wall outlet, regardless of the setting of the POWER switch. The maximum capacity is 400 watts.

Controls, indicators and connectors



1 POWER switch/indicator

Press the power switch to turn on the power. To turn the power off, press the switch again to set it to the out position.

2 SPEAKERS switch

OFF — This position disconnects the speakers to permit private listening with headphones.

A — Activates speakers connected to the SPEAKERS A terminals on the rear panel. This setting can be used whether the speakers are connected with Σ cables or with conventional 2-lead cables.

B — Activates speakers connected to the SPEAKERS B terminals on the rear panel.

A + B — Activates speakers connected to the SPEAKERS A and B terminals simultaneously.

In this setting, however, the speakers connected to the SPEAKERS A terminals do not perform in the Σ drive mode even though they are connected with Σ cables.

3 HOLD TIME switch

This switch is used to hold the peak values of the power level.

3 sec. — In this setting, the peak values hold for approx. 3 seconds.

1 sec. — In this setting, the peak values hold for approx. 1 second.

4 METER RANGE switch

This switch enables selection of the peak power display sensitivity.

x 1 — With the switch in this setting, power output speakers is directly read on the peak power display.

x 0.1 — With the switch in this setting, the reading of power output on the display must be divided by 10, for example, the reading "30" on the display shows 3 watts output.

5 LEVEL CONTROLS

Used to adjust the sound level of the speakers and headphones. The knob marked LEFT is used to adjust the left channel sound level; the knob marked RIGHT is used to adjust the right channel sound level.

As the knobs are set to 10, a standard sensitivity of 1 V is obtained. For normal use, set to 10. If the residual noise is distinctive or the pre-amplifier output is large, turn the knobs counterclockwise.

Using these controls, the balance between right and left channel sound level can be adjusted. For total sound level adjustment, use the pre-amplifier volume control.

6 PHONES jack

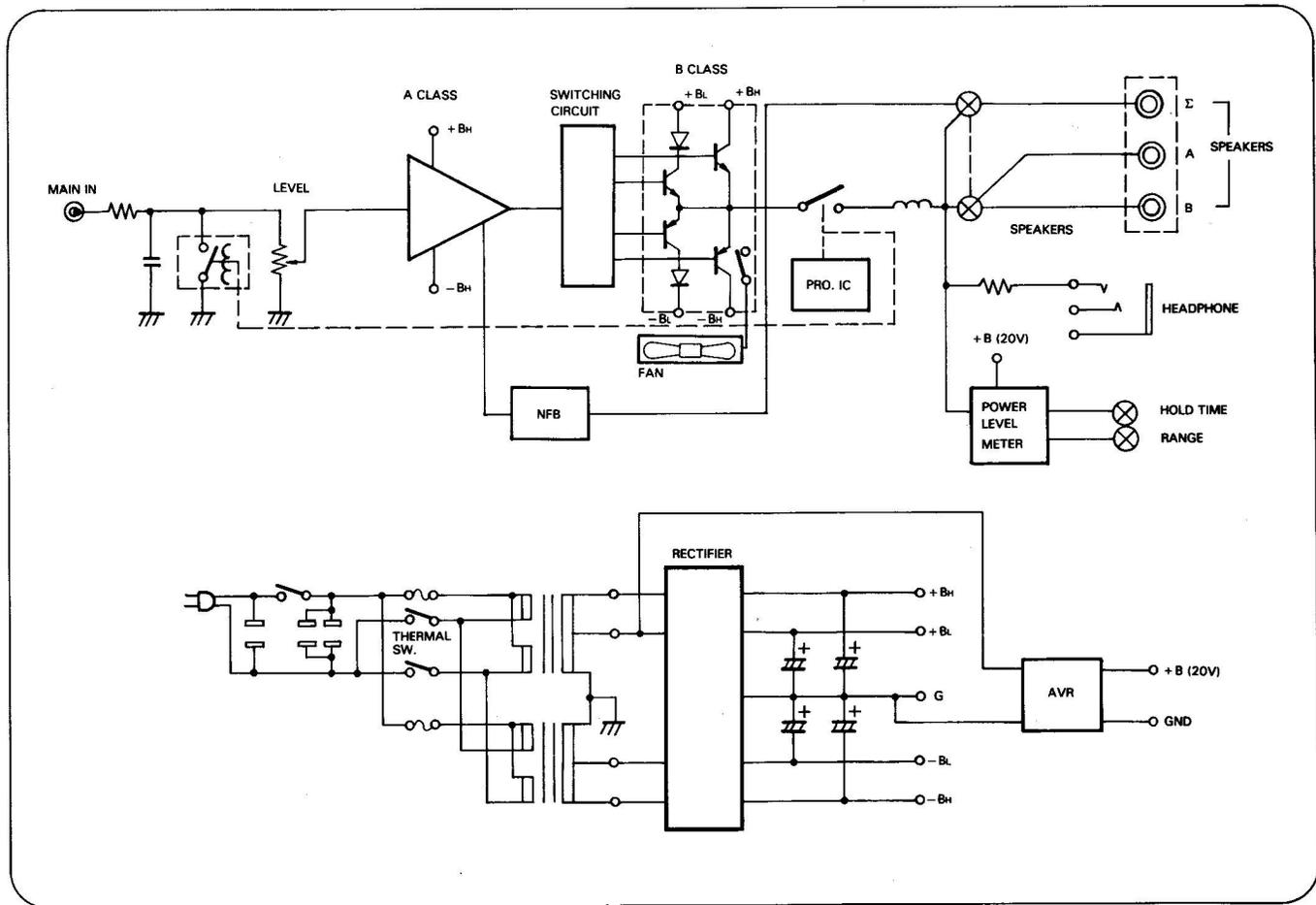
Plug stereo headphones into this jack for private listening. The speakers are silenced when the SPEAKERS switch is set to OFF.

In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

AM, FM, PHONO or Tape playback	Cause	Remedy
Power on but no sound.	<ol style="list-style-type: none"> 1. Power cord not plugged in. 2. Poor connection at wall outlet. Power outlet inactive. 3. VOLUME control set fully counterclockwise. 	<ol style="list-style-type: none"> 1. Check plug contact. 2. Check outlet using a lamp or other appliance (outlet may be controlled by a wall switch). 3. Check the control amplifier connected.
No sound from left or right.	<ol style="list-style-type: none"> 1. Speaker cords disconnected. 2. Speakers switched off. 3. No input selector switch is in use. 	<ol style="list-style-type: none"> 1. Check speaker connections. 2. Check speaker switch. 3. Check the control amplifier connected.
Sound from left or right, but not both.	<ol style="list-style-type: none"> 1. Poor speaker connections. 2. Defective speaker. 3. BALANCE set to one extreme or the other. 	<ol style="list-style-type: none"> 1. Check connections at both ends of speaker cord. 2. Reverse speakers, if problem stays with speaker have speaker checked. 3. Check the control amplifier connected.

Block diagram



Specifications

Power output

220 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.004% total harmonic distortion.

Clipping Power

at 8 ohms242 W
at 4 ohms324 W

Clipping Headroom

at 8 ohms0.2 dB
at 4 ohms1.1 dB

Dynamic Power

at 8 ohms325 W
at 4 ohms484 W

Dynamic Headroom

at 8 ohms1.5 dB
at 4 ohms2.9 dB

Total Harmonic Distortion

(20 Hz to 20,000 Hz)

Input to SPEAKER output0.004% at rated power into
8 ohms
0.004% at 1/2 rated power into
8 ohms
0.001% at rated power into
8 ohms at 1 kHz

Intermodulation Distortion0.004% at rated power into
(60 Hz:7 kHz = 4:1) 8 ohms
Damping FactorMore than 1,000 at 50 Hz,
8 ohms

Transient Response

Rise Time1.8 μ s
Slew Rate \pm 100 V/ μ s

Frequency Response1 Hz to 200 kHz, +0 dB,
-3 dB

Signal-to-Noise Ratio120 dB
(IHF-A Curve)

Speaker ImpedanceAccept 4 ohms to 16 ohms

Input Sensitivity/Impedance

INPUT1 V/47 kohms

General

Power Consumption6.9 A (UL), 7.9 A (CSA),
1,350 W (Rated power at
8 ohms)

A.C. OutletsSwitched 2, Unswitched 1

DimensionsW 440 mm (17-5/16")
H 158 mm (6-7/32")
D 373 mm (14-11/16")

Net Weight15.5 kg (34.1 lb)

* Measured pursuant to Federal Trade Commission's Trade
Regulation rule on Power Output Claims for Amplifier in U.S.A.

Note:

We follow a policy of continuous advancements in developments.
For this reason specifications may be changed without notice.

KENWOOD