

DC STEREO INTEGRATED AMPLIFIER

# KA-7100

INSTRUCTION MANUAL



*the sound approach to quality*  
**KENWOOD**

## INTRODUCTION

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.

### PRECAUTIONS CONCERNING INSTALLATION

- (a) Avoid locations subject to direct sunlight.
- (b) Avoid high or low temperature extremes.
- (c) Keep the amplifier away from heat radiating source.

### SERIAL NUMBER

Record your SERIAL NUMBER on the spaces designated on the warranty card. You will find the serial number on the back of the unit.

### AFTER UNPACKING

After unpacking, we recommend you inspect and examine the unit for any possible 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 you retain the original carton and packing materials to prevent any damage should you transport or ship your unit in the future.

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

## NOTES

1. Units shipped to the U.S.A. and CANADA are designed to be operated with 120 volts AC only. Units shipped to the Scandinavian countries are designed to be operated with 220 volts AC only. Therefore the above units are not equipped with an AC Voltage Selector Switch so all reference to such a switch throughout this manual should be disregarded.
2. Units shipped to all other countries are equipped with an AC Voltage Selector Switch on the rear panel that is preset at the factory to the voltage generally available in the destination area.

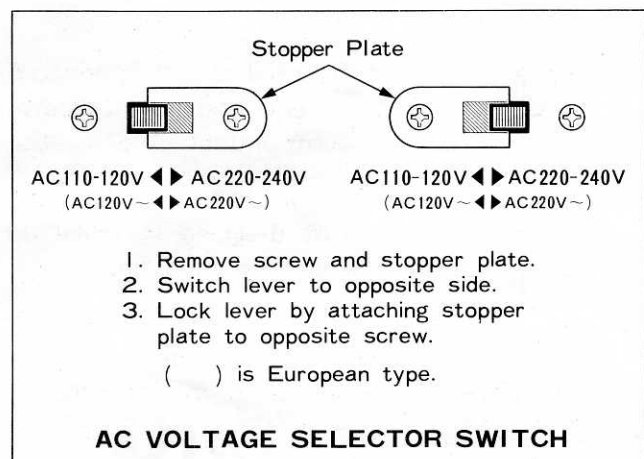
## AC VOLTAGE SELECTION

The KA-7100 operates on 110 ~ 120 volt or 220 ~ 240 volt AC. The AC Voltage Selector Switch on the rear panel is set to the voltage that prevails in the area to which the amplifiers are shipped. Before operating this unit, make sure that the position of the AC Voltage Selector Switch matches your line voltage. If not, it must be changed to the proper setting.

To change, first disconnect the AC line cord. Then remove the stopper plate and slide the AC Voltage Selector Switch to the opposite side. Then reattach the stopper plate to the other side.

#### Note:

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



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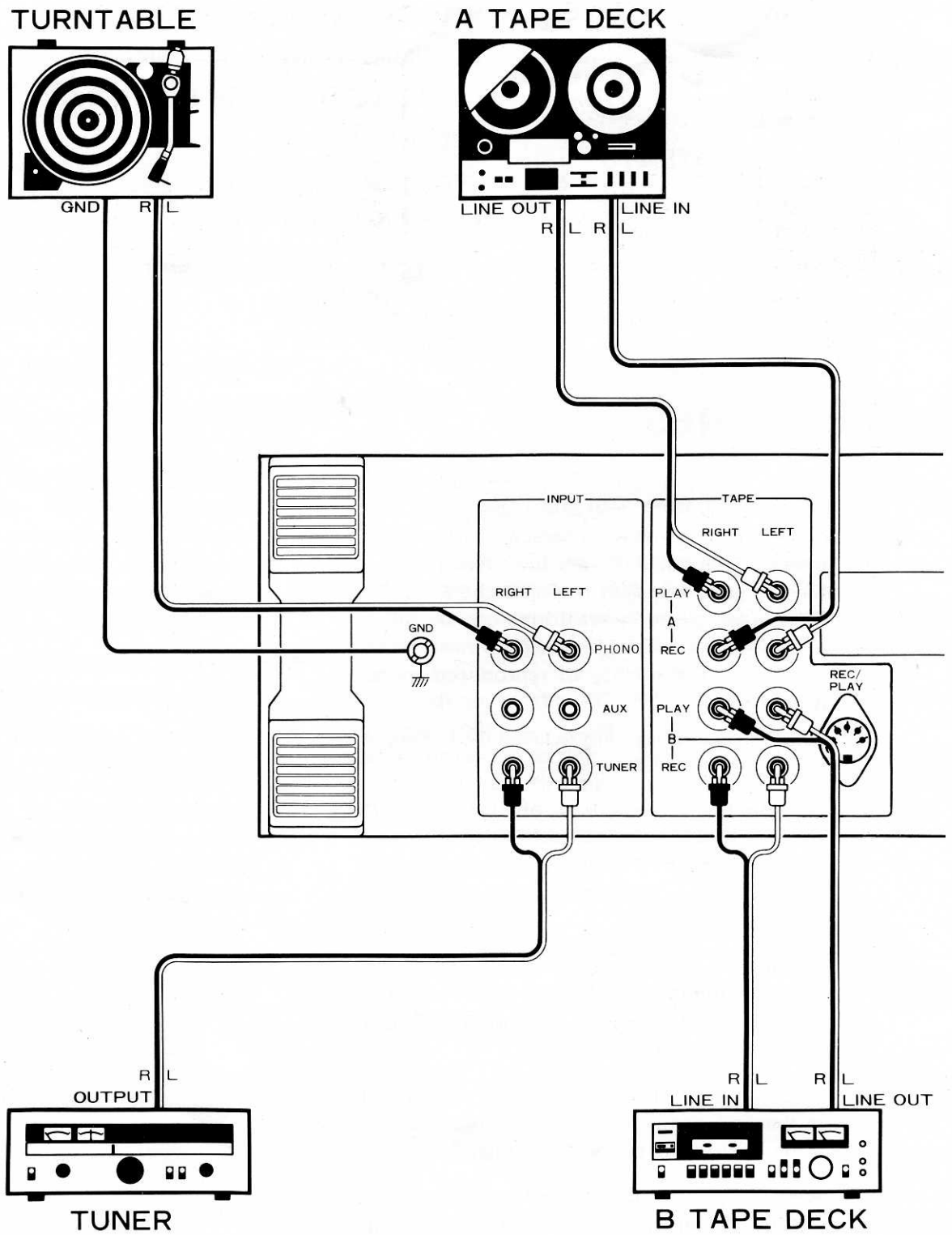
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## FEATURES

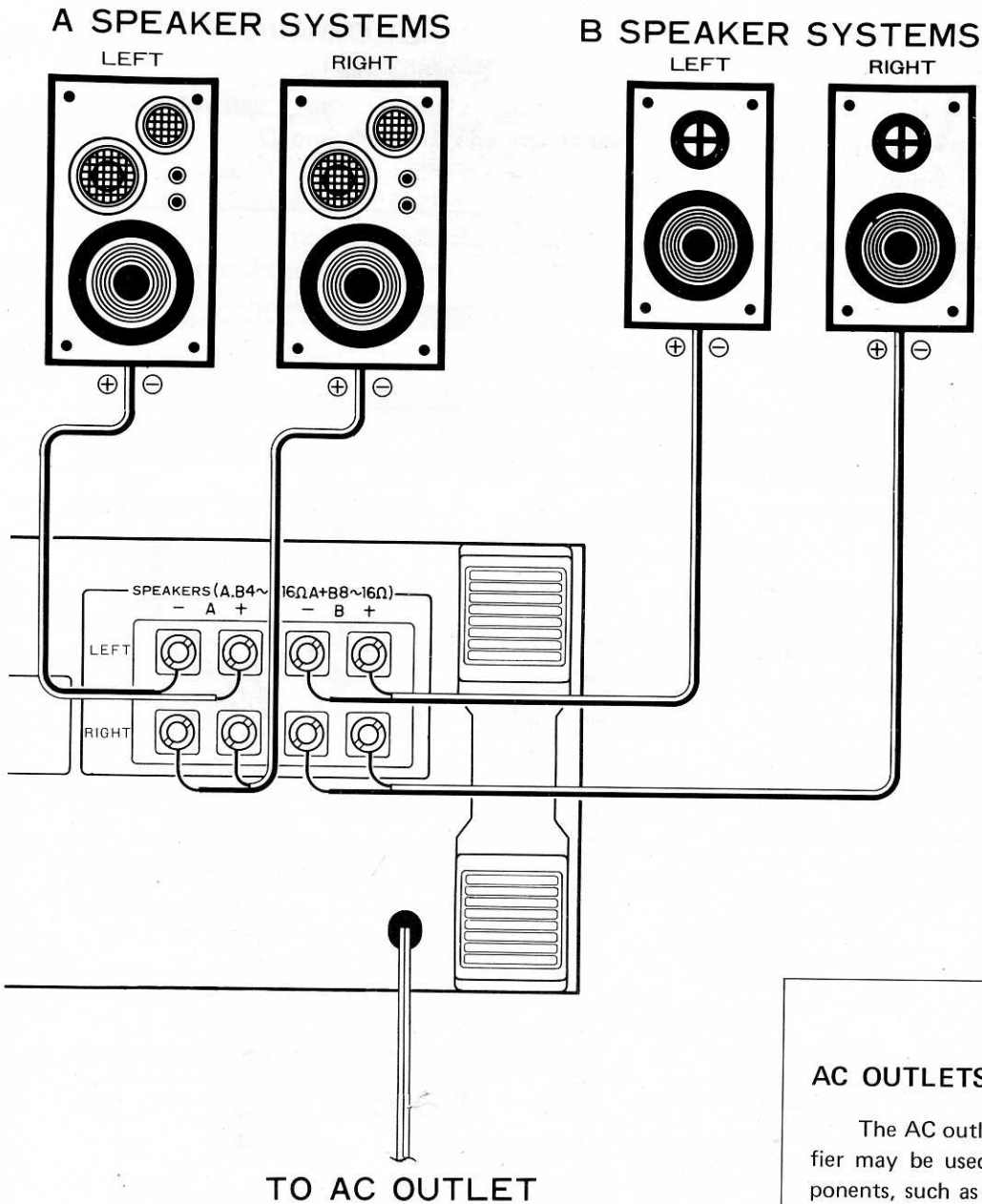
1. Newly incorporated DC power amplifier\* designed by Kenwood offers extremely low distortion and phase characteristics particularly in the range of very low frequencies. Since a good transient response characteristic is assured, output wave forms can be taken out without impairing the original wave forms of input. The quality of reproduced sound is very high.  

\* Refer to page 12 regarding technical descriptions of the DC power amplifier.
2. Because of the adoption of right and left separate power supplies, each independent of the other, *dynamic crosstalk distortion* is eliminated and excellent reproduction is achieved with stable acoustic image.
3. Continuous power output is 60 watts per channel, minimum RMS, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.02% total harmonic distortion.
4. Since an FET differential circuit is adopted in the first stage, the equalizer circuit assures a low distortion factor and a high S/N ratio.
5. A BAX type low-distortion tone control and a tone defeat switch designed to make up highly qualified sound are provided.
6. An ATT type master volume control (32 contacts) is provided. It is carefully designed to reduce interlock errors to a minimum.
7. Multi-Function Attenuator Switch  
This lever instantly cuts the level by 20 dB.
8. For greater control with the large level control, simply activate this lever and you will find precise level adjustment easier and quicker. In addition, this switch is practical when answering the telephone or to placate an unappreciative guest.
8. A 2-stage loudness control is very convenient for low-frequency correction.
9. Convenient tape switch with through circuit for two tape decks.
10. Kenwood's excellence of design and superior craftsmanship is evident not only in the electronics of the KA-7100 but also in all the controls.

# INTERCONNECTING DIAGRAM



# INTERCONNECTING DIAGRAM



## AC OUTLETS

The AC outlets on the rear panel of the amplifier may be used to supply power to other components, such as a turntable, tape deck, etc.

1. **SWITCHED outlets**  
These outlets are controlled by the POWER switch on the front panel. (The total capacity is 100 watts maximum.)
2. **UNSWITCHED outlet**  
This outlet delivers power at all times. (The capacity is 300 watts maximum.)

### Notes:

1. Units shipped to the European countries are not equipped with the AC OUTLETS.
2. Do not connect any equipment whose power consumption exceeds the capacity of each outlet.

# CONNECTING INSTRUCTIONS

## SPEAKER CONNECTING AND SPEAKER SWITCH

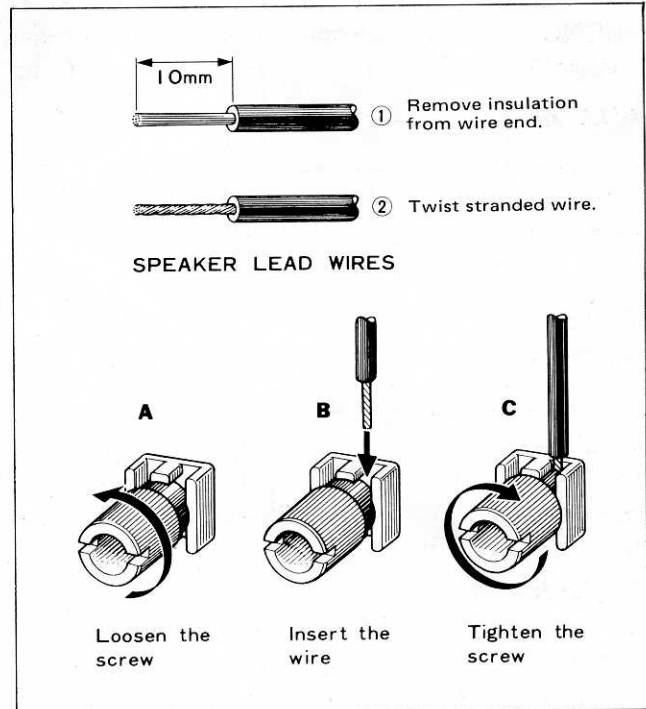
In connecting only one set of speakers, connect the right speaker to right speaker terminals and left speaker to left speaker terminals of "A" speaker terminals. Should plus or minus of either right or left channel be reversely connected, sounds at the center section will be adversely affected by lack of separation. To connect additional set of speakers, connect right speaker to right speaker terminals and left speaker to left speaker terminals of "B" speaker terminals.

When connecting the speaker leads to the speaker terminals, make sure that the bare wire strands at the ends of the speaker leads do not touch each other or adjacent terminal.

It is recommended that the tips of the speaker cord leads are soldered, or the strands of each individual lead twisted together to eliminate any possibility of short-circuits forming in the speaker connecting network.

### Note:

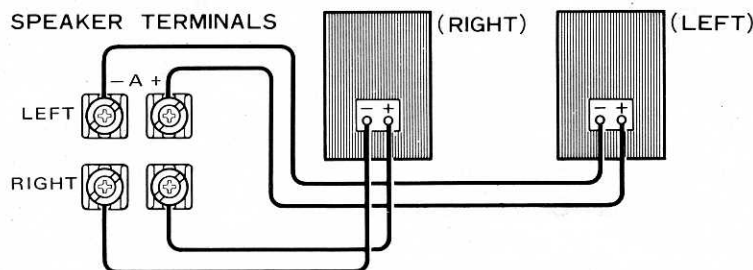
When only one pair of loudspeakers are used, please ensure that the impedance of each speaker system is 4 ohm or more. When two sets of speaker systems are being used at the same time (A+B), please ensure that the impedance of each speaker system is 8 ohm or more.



## PHASING OF THE SPEAKERS

Speaker phasing can be determined in the following manner:

1. Set the MODE switch to MONO.
2. Set the INPUT SELECTOR switch to PHONO, and adjust the VOLUME control to the desired listening level.
3. Play a familiar record.
4. If the sound is coming directly from the front, the speakers are in phase. If the sound comes from both sides and there is a noticeable loss in low frequencies, the speakers are out of phase. In this case reverse the leads on one speaker.



# CONNECTING INSTRUCTIONS

## TURNTABLE CONNECTION

The two shielded audio cables from your stereo turntable are normally terminated with phono plugs. Connect the left channel of the turntable to "LEFT" of the INPUT PHONO jack and the right channel to "RIGHT" of the INPUT PHONO jack. If the turntable has a grounding wire, connect it to the unit's GND terminal to avoid hum.

## AUX JACKS CONNECTION

High level INPUT AUX jacks are for miscellaneous sources, such as extra tape decks, additional tuners and/or receivers, TV sound outputs, and other external components.

## TAPE DECK CONNECTION

### Recording

A tape deck can be connected for recording as follows: the left channel input of the tape deck to "LEFT" of the TAPE A REC jack, the right channel input of the tape deck to "RIGHT" of the TAPE A REC jack.

### Playback

A tape deck can be connected for playback as follows: the left channel output of the tape deck to "LEFT" of the TAPE A PLAY jack, the right channel output of the tape deck to "RIGHT" of the TAPE A PLAY jack.

### Second Tape Deck

If the second tape deck is connected, similar connections must be provided to the TAPE B jacks.

## DIN CONNECTOR (REC/PLAY CONNECTOR)

If your tape deck is equipped with a DIN connector, connect it to the TAPE B REC/PLAY connector with a DIN connecting cord. A DIN connector enables recording and playback with this single cord.

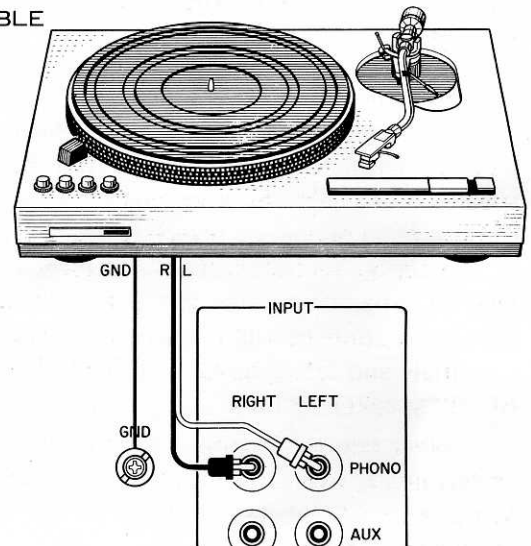
### Note:

The DIN connector corresponds to the TAPE B PLAY and TAPE B REC jacks — the signal must be controlled with the TAPE switch on the front panel. When a DIN cord is connected, the TAPE B PLAY and TAPE B REC jacks should not be used.

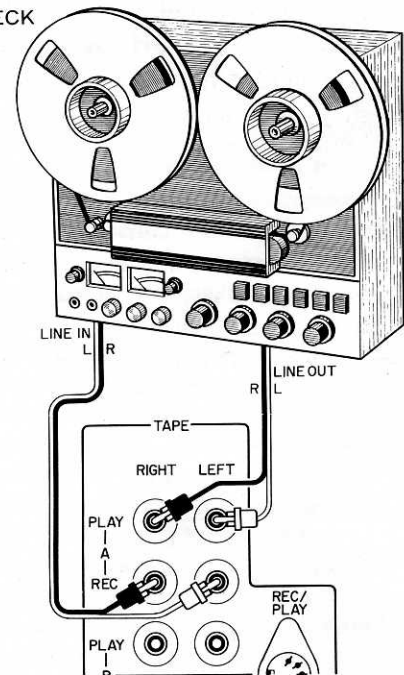
## TUNER CONNECTION

Use the TUNER terminals for connection to an FM stereo or AM-FM stereo tuner. Connect the left channel of the tuner to "LEFT" of the INPUT TUNER jack and the right channel of the tuner to "RIGHT" of the INPUT TUNER jack.

TURNTABLE



TAPE DECK



TUNER

