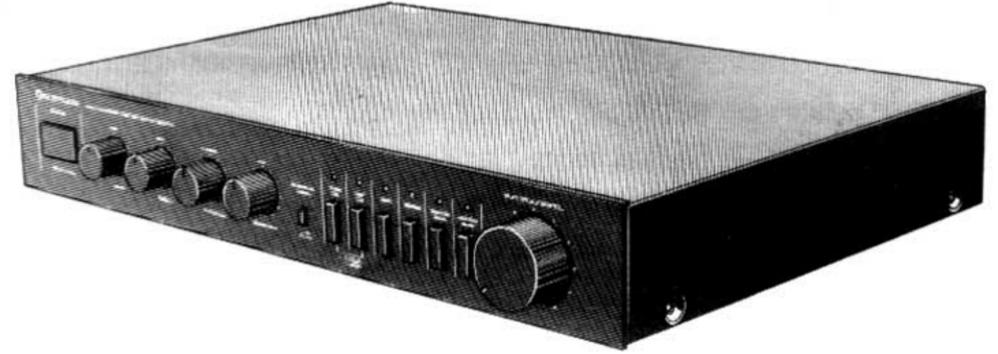


STEREO CONTROL AMPLIFIER

# BASIC C1

INSTRUCTION MANUAL



 **KENWOOD**

## Dear audio fan

The purpose of this manual is to acquaint you with the operating features of your new control 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.

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## 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 C1 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.

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

## 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 an 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 bottom plate.

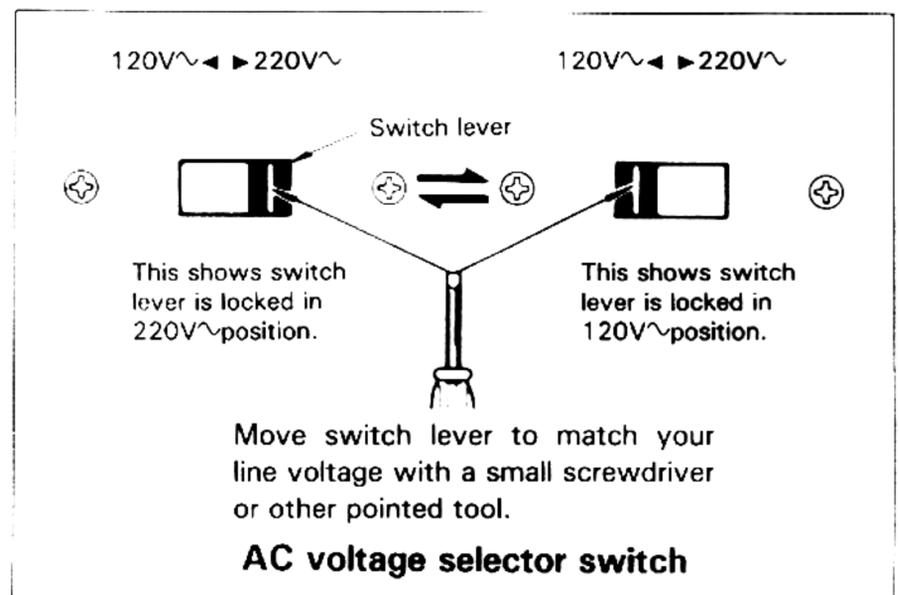
Refer to the following paragraph for the proper setting of this switch.

## AC voltage selection

This unit operates on 120 volts or 220 volts AC. The AC Voltage Selector switch on the bottom plate 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:

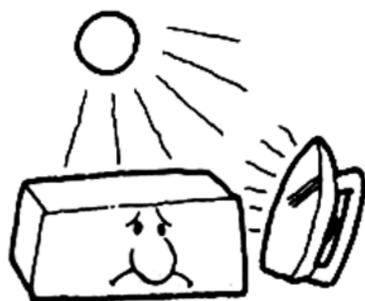
Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC Voltage Selector switch.



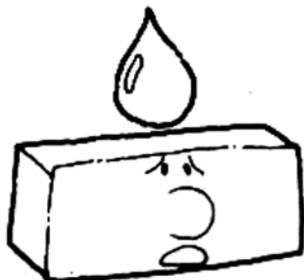
# Before operation

## 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.



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.

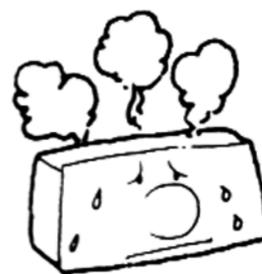
Never pull, bend or extend the power cord. This could damage the power cord, resulting in a broken cord or short-circuit.



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.

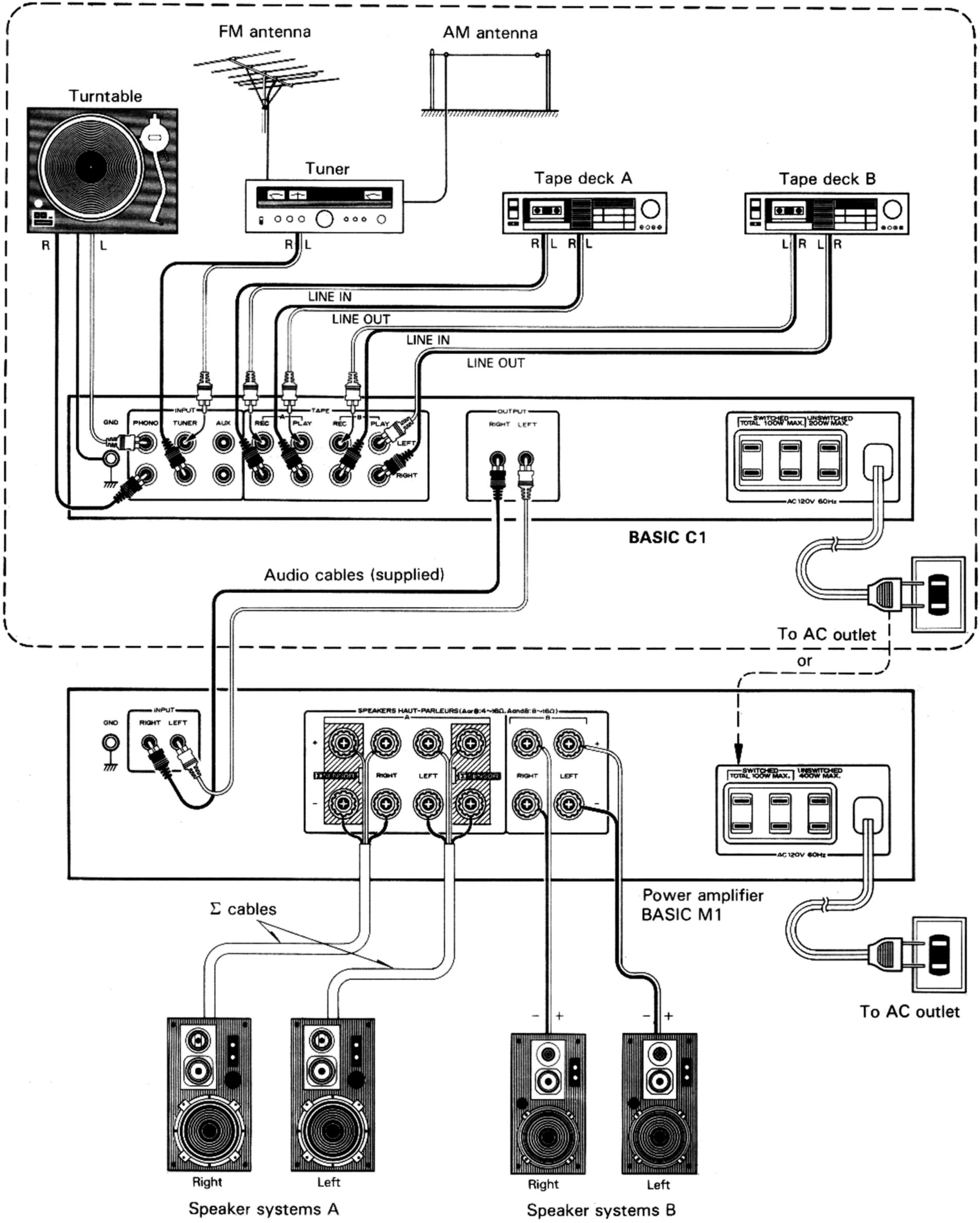


## Cleaning

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.



# System connections



## Power amplifier

Connect the OUTPUT jacks of the BASIC C1 and the INPUT jacks of a power amplifier with the supplied audio cables.

### Notes:

- 1) The AC cord of the power amplifier should be plugged into a wall outlet.
- 2) To prevent possible trouble, always disconnect the power plug or turn off the POWER switch of the power amplifier before connecting or disconnecting the audio cables.
- 3) When connecting audio cables, always insert the pin plugs exactly into the connecting jacks.  
Insufficient insertion may result in no-sound trouble or generation of noise.

## Turntable

The PHONO jacks of the amplifier can accept a turntable with either an MM or MC type phono-cartridge. Your stereo turntable has a pair of audio cables that is terminated with phono plugs. Plug the left channel plug into the LEFT and the right channel plug into the RIGHT PHONO jacks.

If the turntable has a ground wire, connect it to the unit's GND terminal to avoid hum.

## Tuner

Use the TUNER terminals for connection to an FM stereo or AM-FM stereo tuner.

Connect the left channel of the tuner to the LEFT TUNER input jack and the right channel of the tuner to the RIGHT TUNER input jack.

## Aux

The AUX jacks are used to connect other high-level signal sources, such as extra tuners, tape decks (equipped with preamps), TV, VTR or VCR sound outputs, mic preamps, etc.

## Ground

For maximum safety and minimum interference connect the GND terminal to a good earth ground if practicable. A good earth ground is a cold water pipe or a metal stake driven into moist earth. However, never use a gas pipe for this purpose.

## Tape decks

If only one tape deck is to be connected to the system it is recommended that it be connected to the jacks marked TAPE A.

Tape deck input and output cables are normally terminated with phono plugs.

## Playback

Plug the left and right output cables of the tape deck into the "LEFT" and "RIGHT" TAPE A PLAY jacks.

## Record

Plug the left and right input cables of the tape deck into the "LEFT" and "RIGHT" TAPE A REC jacks.

## Second tape deck

Plug the input and output cables from the second tape deck into the REC and PLAY jacks marked TAPE B.

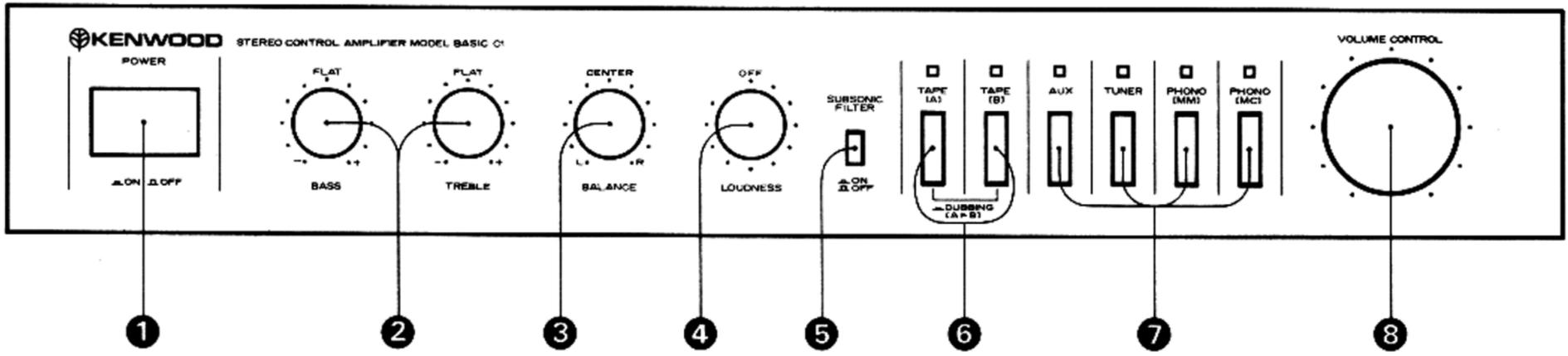
## AC outlets

The AC outlets on the rear panel of the unit 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.

**SWITCHED outlets:** These outlets supply power only when the unit is turned on. The maximum total capacity (both outlets) is 100 watts.

**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 200 watts.

# Controls and indicators



## ❶ POWER switch

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.

## ❷ Tone controls

The tone controls may be effectively used to compensate for the acoustic characteristics of your room or the frequency response of your speaker systems.

### • BASS control:

Turning this control clockwise from the FLAT position will increase bass response. Turning it counterclockwise from the FLAT position will decrease the bass response. The FLAT setting provides a flat bass response.

### • TREBLE control:

Turning this control clockwise from the FLAT position will increase the high-frequency response. Turning it counterclockwise from the FLAT position will decrease the high-frequency response. The FLAT setting provides a flat high-frequency response.

## ❸ BALANCE control

This control permits balancing of left and right channels when an imbalance exists from the sound source, or to correct acoustic imbalance due to room conditions. Turn it to the left from the CENTER position to boost the left channel; turn it to the right of CENTER to raise the level of the right channel.

## ❹ LOUDNESS control

The loudness control boosts bass response to compensate for the human ear's lack of response to those frequencies at low volume levels. The loudness effect can be adjusted from 0 to 9 dB at 100 Hz. Adjust the LOUDNESS control according to your listening level.

## ❺ SUBSONIC FILTER switch

The subsonic filter is used to remove super-low-frequency noise due to warp in the record disk. If this switch is ON, a low frequency range is cut off from 18 Hz at an inclination of 6 dB per octave. This switch may be set to ON at all times since low frequency noise deviating from the acoustic range and affecting the speakers adversely can be cut off effectively.

## ❻ Tape selector (TAPE [A]/TAPE [B]) switches

To select the tape deck connected to the TAPE A jacks, press the TAPE A switch so that the indicator above the switch lights up. To select the tape deck connected to the TAPE B jacks, press the TAPE B switch so that the indicator above the switch lights up. When the TAPE A and TAPE B switches are set to ON (the LEDs of TAPE A and TAPE B light up), tape recordings may be duplicated easily using the tape deck A to play the prerecorded tape and tape deck B to record the copy.

### Note:

When the TAPE [A] and/or TAPE [B] selector switch is set to ON (with TAPE A and/or B LED on), the source program selected with the PHONO ([MM] or [MC]), TUNER, or AUX position of the input selector switch will not be heard from the speakers. To listen to a source other than tape, be sure to press the TAPE switch so that the TAPE LED goes off.

## ⑦ Input selector switches

**PHONO [MM]** — To listen to a record played back with an MM (Moving Magnet) phono-cartridge, press this switch. The indicator above the switch lights up.

**PHONO [MC]** — To listen to a record played back with an MC (Moving Coil) phono-cartridge, press this switch. The indicator above the switch lights up.

**TUNER** — To listen to a source from the tuner connected to the TUNER jacks, press this switch. The indicator above the switch lights up.

**AUX** — To listen to a source from the equipment connected to the AUX jacks, press this switch. The indicator above the switch lights up.

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**Note:**

While any of the four input selector switches (PHONO [MM or MC], TUNER, AUX) is in use, slightly pressing one of the other switches will release the input setting. This will show that all the input selector LEDs are off with the source signal input cut. To listen to the desired source, firmly press the corresponding input selector switch to set input again.

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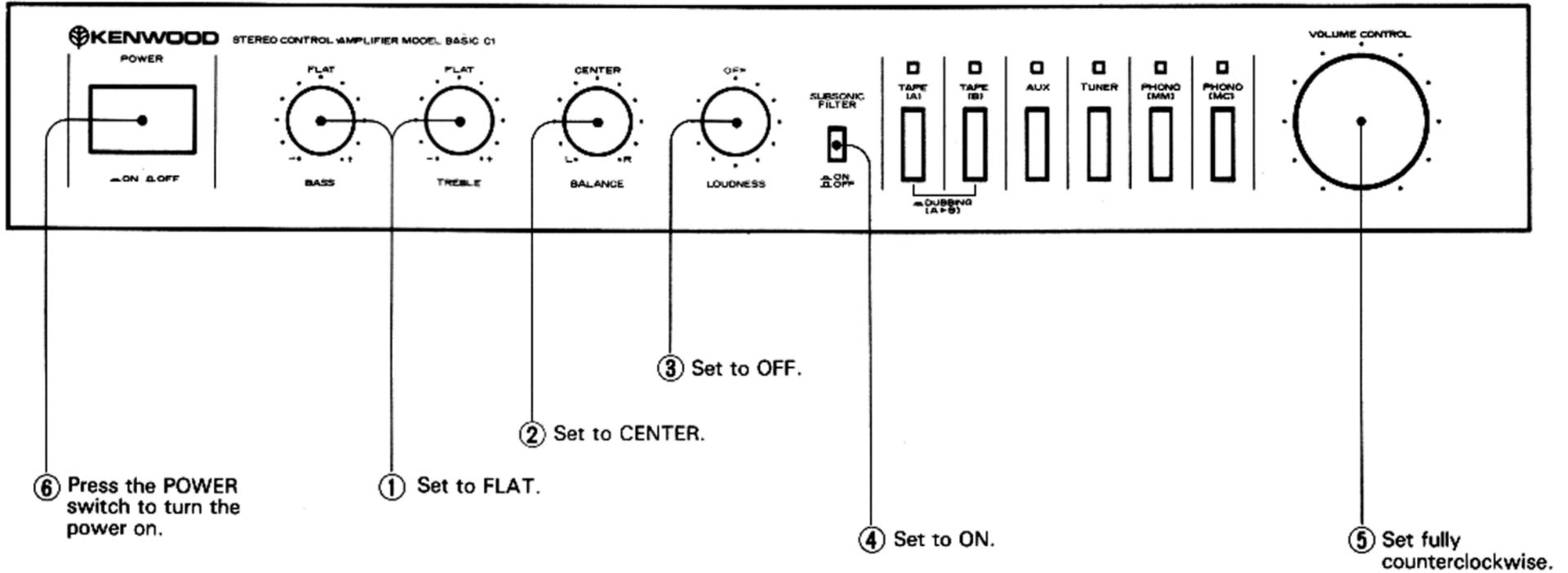
## ⑧ VOLUME CONTROL

This control adjusts left- and right-channel volume simultaneously. Set it for the desired listening level.

# Operating instructions

## Prior to operation

It is recommended that rarely used controls and switches be preset in accordance with your preference in order to simplify operation. Once these controls and switches have been preset, normal operation is simply turning on the POWER switch and selecting the desired program source by pressing one of the input selector switches. Preset procedure should be followed step numbers in order as shown below.



## Initial setup

### Tuner

1. With your tuner connected to the TUNER jacks, press the TUNER selector switch. The indicator above the switch lights up.
2. Tune to the desired station.
3. Adjust the VOLUME CONTROL and/or tone controls on the unit for your preference.
4. At low volume levels, adjust the LOUDNESS control.

### Turntable

1. When your turntable is equipped with an MM phono-cartridge, press the PHONO [MM] selector switch. When your turntable is equipped with an MC phono-cartridge, press the PHONO [MC] selector switch. The corresponding indicator above the switch lights up.
2. Operate the turntable to play back the record.
3. Adjust the VOLUME CONTROL and/or tone controls of the unit for your preference.
4. At low volume levels, adjust the LOUDNESS control.

### Aux

1. With your additional program source connected to the AUX jacks, press the AUX selector switch. The indicator above the switch lights up.
2. Operate the equipment connected to the AUX jacks.
3. Adjust the VOLUME CONTROL and/or tone controls for your preference.
4. At low volume levels, adjust the LOUDNESS control.

### Tape decks

#### Tape playback

1. Press the TAPE [A] or TAPE [B] switch corresponding to terminals to which the tape deck is connected. The indicator above the switch lights up.
2. Operate the tape deck to playback the tape.
3. Adjust the VOLUME CONTROL and/or tone controls until the desired listening level and tone are obtained.

#### Recording (with one tape deck)

1. Connect the tape deck to the TAPE A or TAPE B jacks on the rear panel.
2. Press the PHONO ([MM] or [MC]), TUNER or AUX selector switch in accordance with the desired source.
3. Set up the program source component for operation and set up your tape deck for recording.
4. Set the recording level with the controls on your tape deck. The controls on the amplifier do not affect the signal output to the tape deck.

#### Recording (with two tape decks)

1. Connect two tape decks to the TAPE A and TAPE B jacks.
2. Press the PHONO ([MM] or [MC]), TUNER or AUX selector switch in accordance with the desired source.
3. Set up the program source component for operation and set up your two tape decks for recording.
4. Set recording levels with the controls on your tape decks. The controls on the amplifier do not affect the signal output to the tape decks.

## Recording Monitoring

If your tape deck has three heads, you can monitor the results of recording immediately after they have been recorded with the tape monitor switch set to "TAPE" and the corresponding TAPE selector switch pressed. Under this condition, when the TAPE selector switch is pressed again, the program source can be heard through the speakers, allowing you to compare the recording results with the source signal by instantaneous switching.

### Note:

To monitor the recording results, both the recording and playback connections are necessary. Recording monitoring is impossible with a two-head tape deck.

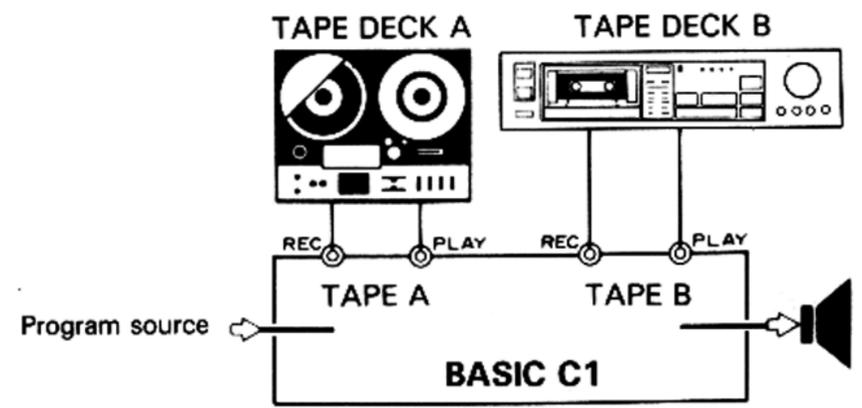
## Tape-to-Tape Dubbing

When two tape decks are connected to the TAPE A and TAPE B jacks, tape recordings may be duplicated easily using the tape deck A to play the prerecorded tape and tape deck B to record the copy. To dub the tape, press both TAPE [A] and TAPE [B] selector switches. To adjust the recording levels, use the level controls on your tape decks.

## Dubbing Monitoring

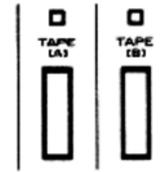
When tape-to-tape dubbing from tape deck A to B and the tape deck B has three heads, switching the tape deck B monitor switch between "TAPE" and "SOURCE" allows you to monitor the dubbing condition.

When the tape deck B monitor switch is set to "TAPE" the sound duplicated onto tape deck B can be monitored. When the tape deck B monitor switch is set to "SOURCE" the signal fed to tape deck B can be heard through the speakers.

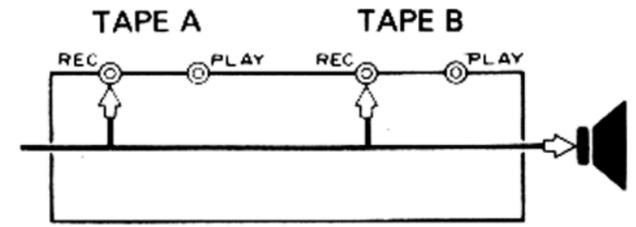


### Recording

#### Tape selector switches

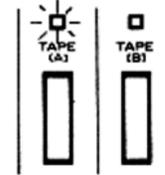


OFF OFF

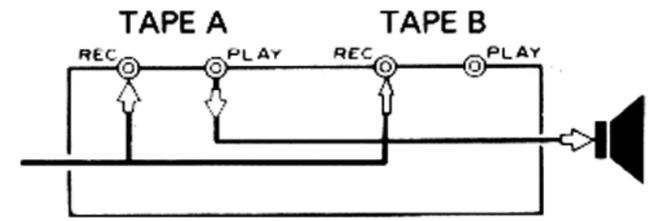


The source signal selected by the input selector switch is fed to TAPE A and B REC jacks.

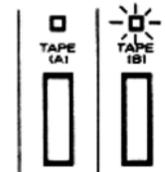
### Playback and Recording Monitoring



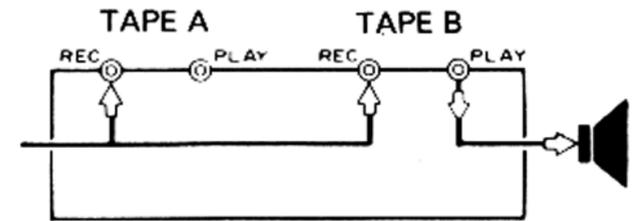
ON OFF



When a prerecorded tape is played back on tape deck A, the tape sound can be heard through the speakers. When tape deck A has three heads and is in the recording mode, recording monitoring is possible. (At that time, the program source signal selected by the input selector switch is fed to the TAPE B REC jack.)

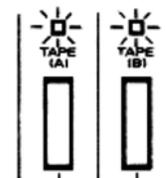


OFF ON

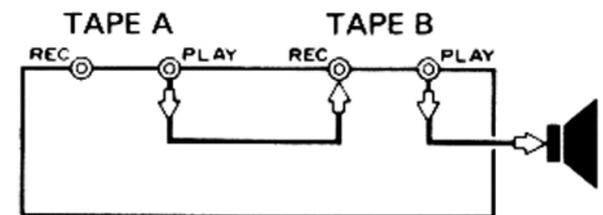


When a prerecorded tape is played back by tape deck B, the tape sound can be heard through the speakers. When the tape deck B has three heads and is in the recording mode, recording monitoring is possible. (At that time, the program source signal selected by the input selector switch is fed to the TAPE A REC jacks.)

### Dubbing Monitoring



ON ON



When dubbing from tape deck A to B and the tape deck B has three heads, dubbing monitoring is possible. Connecting a graphic equalizer, echo unit, mic mixer, noise reduction system, etc. instead of tape deck A and/or B will enhance your audio.

# 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 Kenwood dealer or service representative.

<b>AM, FM, PHONO (MM/MC) or Tape playback</b>	<b>CAUSE</b>	<b>REMEDY</b>
Power on but no sound.	a) Power cord not plugged in. b) Poor connection at AC outlet. Power outlet inactive.  c) VOLUME CONTROL set fully counterclockwise.	a) Check plug contact. b) Check outlet using a lamp or other appliance (outlet may be controll- ed by a wall switch). c) Set the control to your preference.
No sound from left and right.	a) Speaker cords disconnected. b) No input selector switch is in use.	a) Check speaker connections. b) Push one of the selector switches to select the desired program.
Sound from left or right, but not both.	a) Poor speaker connections.  b) Defective speaker.  c) BALANCE set to one extreme or the other.	a) Check connections at both ends of speaker cord. b) Reverse speakers. If problem stays with the same speaker, check the speaker. c) Check setting of BALANCE control.
<b>PHONO (MM/MC) playback only</b>	<b>CAUSE</b>	<b>REMEDY</b>
No sound from both or one speaker.	Turntable output disconnected.	Check phono cables.
Loud hum drowns out sound.	Poor ground connection at phono cable connections.	Check phono plugs, particularly outershell connections.
Low background hum.	Hum picked up in turntable or turntable cables.	Keep cables away from power cords. Twist left and right cables together. Reverse AC plug of turntable. Con- nect ground wire between turntable and GND terminal.
Background buzz.	TV signal picked up by phono cable (especially near transmitter).	Route phono cables to minimize buzz.
Howling noise at maximum volume settings.	Acoustic pickup from speaker.	Increase distance between speaker and turntable. Choose speaker loca- tions carefully. Check turntable suspension.
Sound distorted.	Incorrest PHONO switch setting.	Depress the correct PHONO switch according to the type of cartridge used.

# Specifications

## PERFORMANCE

### Input Sensitivity/Impedance/Signal-to-Noise Ratio (IHF A Curve)

Phono 1 (for MM use)	2.5 mV/47 kohms/87 dB
Phono 2 (for MC use)	0.25 mV/100 ohms/70 dB
Tuner/AUX	150 mV/47 kohms/108 dB
Tape Play	150 mV/47 kohms/108 dB
Maximum Input Voltage for Phono 1	200 mV (RMS), T.H.D. 0.005% at 1,000 Hz
Maximum Input Voltage for Phono 2	15 mV (RMS), T.H.D. 0.005% at 1,000 Hz

### Frequency Response

Phono 1 & 2	RIAA Standard Curve $\pm 0.3$ dB (30 Hz - 20 kHz)
Tuner, AUX & Tape Play	1 Hz - 250 kHz (-3 dB)
Subsonic Filter	18 Hz, 6 dB/Octave

### Transient Response

Rise Time	1.4 $\mu$ s
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### Total Harmonic Distortion

Tuner, AUX & Tape Play	
20 Hz ~ 20 kHz	0.004% at 1 V Output
Phono 1 (for MM use)	
20 Hz ~ 20 kHz	0.005% at 1 V Output (VOLUME at -30 dB)
Phono 2 (for MC use)	
20 Hz ~ 20 kHz	0.005% at 1 V Output (VOLUME at -30 dB)

Output Voltage & Impedance ..... 1 V/less than 600 ohms

Maximum Output ..... 5 V

Load Impedance ..... 47 kohms

### Loudness Control

(at VOLUME -30 dB) ..... 0 to +9 dB Continuously Variable

## GENERAL

Power Requirement ..... 60 Hz 120 V (U.S.A. & Canada Model)  
Model sold elsewhere incorporates switch to accommodate 50/60 Hz 120 V/220 V

Power Consumption ..... 0.15A

AC Outlet ..... 1 Unswitched, 2 Switched

Dimensions ..... W 440 mm (17-5/16")  
H 78 mm ( 3-5/64")  
D 326 mm (12-27/32")

Weight (Net) ..... 4.2 kg (9.3 lbs)

(Gross) ..... 4.8 kg (10.6 lbs)

### Note:

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.



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