

KR-V5560 KR-694

# **INSTRUCTION MANUAL**

KENWOOD CORPORATION

This manual contains instructions for two models.

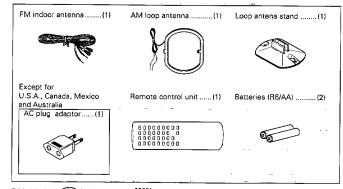
### For your records

### Unpacking

Unpack the unit carefully and make sure that all accessories 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 cerrier 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.

### Accessories



B60-1453-00 (K,P,M,X,Y,R) (MC)

### Before applying power

⚠ Caution : Read this page carefully to ensure safe operation

# 2

## Before applying power

Units are designed for operation as follows.

.... 110-120 / 220-240 V swite

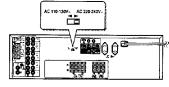
#### AC voltage selection

# This unit operates on 110 - 120 volts or 220 - 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.

### AC voltage selector switch



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

### Safety precautions

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







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.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNTINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERTTHE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

### For the U.S.A.

#### **FCC WARNING**

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

#### NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

#### For the U.S.A.

### Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

# Special features

### DOLBY PRO LOGIC & DOLBY 3 STEREO

The DOLBY PRO LOGIC mode controls the audio signals of the Front Left/Right, Center and Rear surround channels using the built-in directivity enhancer circuit to reproduce the feeling of sound motions realistically.

The DOLBY 3 STEREO mode can reproduce the motions of sound even when only the front and center speakers are used, by providing proper acoustic position using the directivity enhancer circuit.

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### Caution : Read the pages marked $\triangle$ carefully to ensure safe operation.

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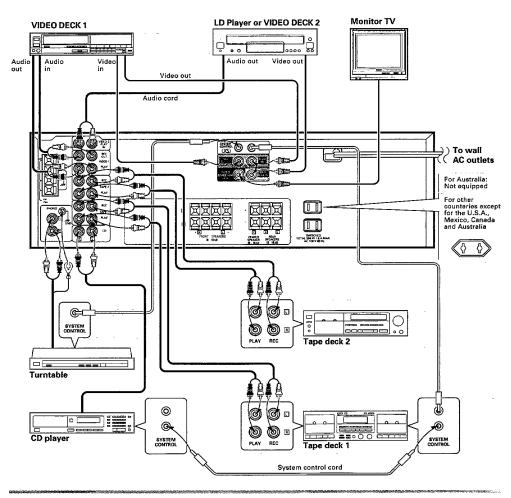
### System connection



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Make connection as shown below. When connecting the related system components, refer also to the instruction manuals of the related components.

Do not plug in the power lead until all connections are completed.



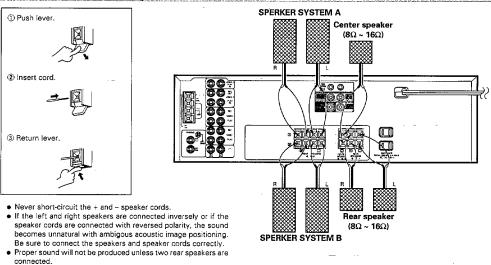
#### **Automatic operation**

When this unit is connected to KENWOOD system components such as a cassette deck and CD player through system control cords and the inpu source is selected with the INPUT SELECTOR, the selected component starts to play automatically. Inversely, playing a component automatically selects that source as the input to this unit. The automatic operation also occurs when the provided remote control is used.



- 1. Connect all cords firmly. If connections are loose, there could be loss of sound or noise produced.
- When plugging and unplugging connection cords, be sure to first remove the power cord from the AC outlet. Plugging / unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.
- 3. Do not connect up a power source which is larger than that indicated on the socket at the rear of the unit.
- 4. Insert the system control plugs completely into the jacks.
- If the system control cords or audio cords are not connected properly, the remote control or automatic operation between system components will not work properly.

# Connection of speakers







#### Connection method to each antenna terminal

رِيَّا Push lever.







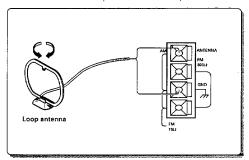




### Connection of AM antenna

### AM loop antenna connection

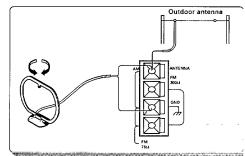
The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.



### AM outdoor antenna connection

If the reception is poor when the AM loop antenna is used, distribute a vinyl-coated wire of more than 6 meters outdoors, without disconnecting the loop antenna.

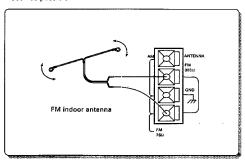
**Olimataina kalkaisi 1986 kalkaisia (188**2–1883) kaka kalka sa kalka sa kalka sa kalka sa kalka sa kalka sa kalka



# Connection of FM antenna

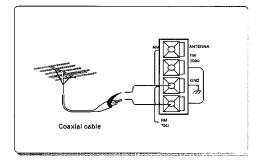
### FM indoor antenna connection

The supplied antenna is for indoor use. For stable reception, remove the indoor antenna after installing an outdoor antenna as soon as possible.



### FM outdoor antenna connection

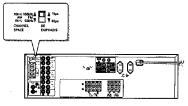
Lead the  $75\Omega$  coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM  $75\Omega$  terminal.



### FM DE-EMPHASIS / CHANNEL SPACE switch (Except for U.S.A., Canada, Mexico and Australia) The FM DE-EMPHASIS / CHANNEL SPACE switch on the rear

The FM DE-EMPHASIS / CHANNEL SPACE switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the FM DE-EMPHASIS / CHANNEL SPACE setting is not matched to the area where the unit is to be used; for instance, when you moved from area 1 to area 2 or vice versa, desired reception of AM / FM broadcasts is not expected. In this case, change the FM DE-EMPHASIS / CHANNEL SPACE setting in accordance with the area corresponding to the table. The FM DE-EMPHASIS is switched over at the same time.

 When changing the setting of the FM DE-EMPHASIS / CHAN-NEL SPACE switch, first disconnect the power cord of the amplifier, then reset the channel space\_switch, connect the power cord again, and turn the power on.

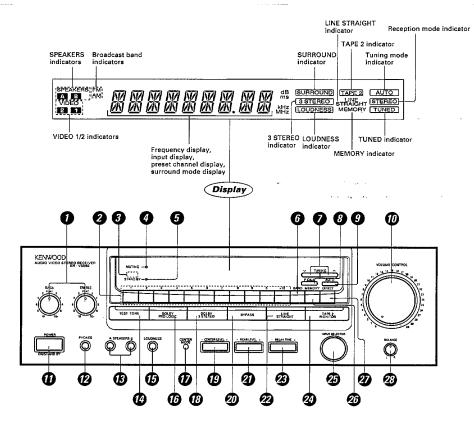


	Area		ANNEL CE freq.	FM DE- EMPHASIS
1	U.S.A., Canada, Hawaii, South American countries	FM: AM:	100kHz 10kHz	75 μs
2	Other countries	FM: AM:	50kHz 9kHz	50 μs

2

### Controls and indicators





- **O**TONE control knobs
- Numeric keys
- @Remote control sensor
- **MUTING** indicator
- **G**STAND BY indicator
- **@BAND** key
- Press to switch the broadcast band.
- **OTUNING** keys
- Press to tune broadcast stations. ⊕P.CALL key
- Press to recall a preset station. ②AUTO key
- Press to select the auto tuning mode, **@VOLUME CONTROL knob**
- **OPOWER** key
- **®**PHONES jack
- Used for headphone listening.

- **®SPEAKERS A/B keys**
- Press to select the A and/or B speaker systems.
- **@**TEST TONE key
- **(b)**LOUDNESS key
- Press to enhance low frequencies.
- **(D)** DOLBY PRO LOGIC key
- **OCENTER MODE key**
- Press to select the center mode of the
- DOLBY PRO LOGIC surround play.
- **® DOLBY 3 STEREO key**
- **®CENTER LEVEL key**
- **® BYPASS** key
- Press to cancel the surround modes.
- @ REAR LEVEL key

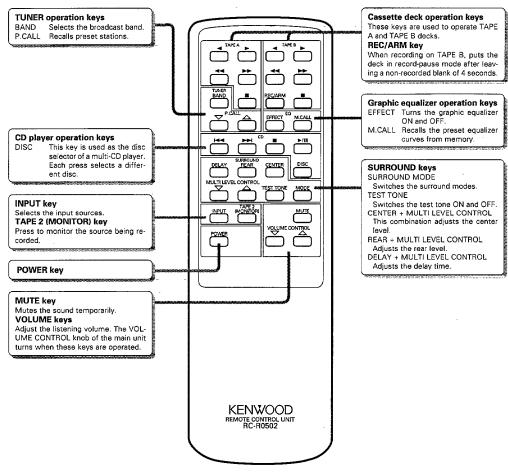
- **②LINE STRAIGHT key**
- Press to reproduce the source with a higher sound quality.
- **3** DELAY TIME key
  - Press to adjust delay time.
- TAPE 2 (MONITOR) key
- MINPUT SELECTOR knob
- Turn to select the input sources.
- MEMORY key
- Press to preset a station in the memory.
- DIRECT key
- Press for direct station tuning based or numerical input.
- **BALANCE** control knob
- Turn to adjust the volume balance between left and right.

#### STANDY BY mode of POWER switch

When the power cord of this system is plugged into an AC outlet, the STAND BY indicator lights up regardless of the ON/OFF setting of the POWER switch. This indicates that a small amount of current is being supplied to the unit to back up the memory contents. This mode is referred to as the Stand By mode. While the STAND BY indicator is lit, the power of the system can be switched ON/OFF from the remote control unit.

### Remote control unit

The remote control unit provided with the receiver can also control KENWOOD cassette decks, CD player, and graphic equalizer connected to the receiver through system control cords. For details of the controllable functions, refer to the instruction manuals of these components.



Model: RC-R0502 Infrared ray system

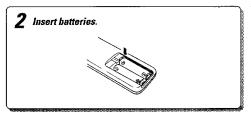
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ys TAPE ats the ir leav- conds.			
ı <b>keys</b> ualizer ualizer			
d OFF. ROL center DL			

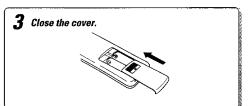
### Operation of remote control unit

### 10

# Loading batteries





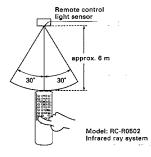


 Insert two AA-size (R6 / SUM-3) batteries as indicated by the polarity marking.

# Operation procedure

Plug the power cord of the system into an AC wall outlet, and press the POWER key on the remote control unit to turn the power on.

When the power is turned on, press the key of the source component to be operated.

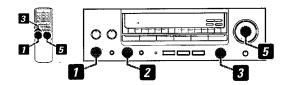


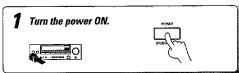
- When two operation keys on the remote control unit are pressed successively, press each key securely reserving an interval of more than 1 second for each press.
- Components connected via the system control cords, such as the CD player, can also be remote-controlled. In this case, please read the instruction manual supplied with your components.

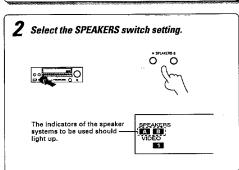


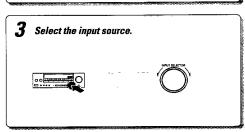
- 1. The supplied batteries are intended for use in operation checks. Therefore, their lives may be shorter than ordinary batteries.
- 2. When the remote-controllable distance gets shorter than before, replace both batteries with new ones.
- Melfunction may occur if direct sunlight or the light of a high-frequency lighting fluorescent lamp enters the remote control light sensor. In such a case, change the system installation position to prevent the malfunction.

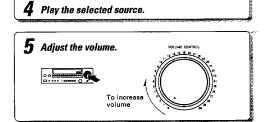
### Playing music











### A, B OFF

CARL CONTROL OF CONTRO

Sound is not output from the speakers. Use this setting for listening through headphones, etc.

A DN Sound is output from the speakers connected to the SPEAKERS

A terminals on the rear panel.

Sound is output from the speakers connected to the SPEAKERS

B terminals on the rear panel.

A, B ON

Sound is output from the speakers connected to the SPEAKERS A and B terminals on the rear panel.

- When a surround mode is activated while both SPEAKERS A and B are ON, the SPEAKERS B system is automatically switched off. If the SPEAKERS B key is pressed at this time, the SPEAKERS B system is switched ON and the SPEAKERS A system is switched OFF automatically.
- If the cassette deck(s), CD player and/or turntable is connected through system control cords, the component of the selected input source starts to play automatically.

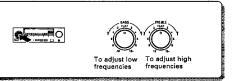
The selected source is The input sources are switched in the following order: TUNER (frequency display) ② TAPE 1 ③ VIDEO 1 4 VIDEO 2 ⑤ CD

• The selected input source is held in memory for about 3 days even after the power cord is unplugged from the mains outlet.

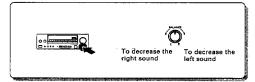
• The sound of input source cannot be listened to while TAPE 2 is

- When the volume is adjusted from the remote control unit, the
- VOLUME CONTROL knob rotates.

### Adjusting the tone

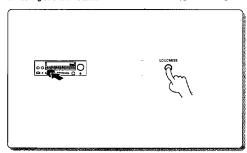


### Adjusting the left/right sound balance

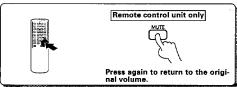


### Using the LOUDNESS key

When listening at a low volume, the loudness function allows to compensate the low frequencies which human ears have difficulty in hearing at a low volume.



### To mute sound temporarily

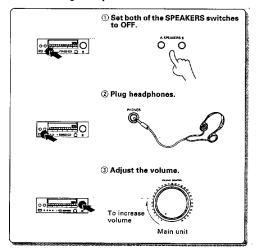


To cancel the loudness function
Press the key again.

• The MUTING indicator of the receiver unit blinks.

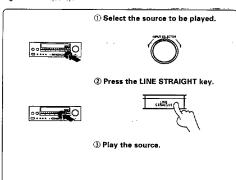
Goes off.

### To listen through headphones



### Line-straight playback

This feature allows to enjoy music sources such as CD with an even higher sound quality.





- The tone control functions are defeated during line-straight play.
- The line-straight play is cancelled when a key associated with surround play is pressed.

### To cancel Press the key again.





### Recording

### To record a music source

① Select the source to be recorded.





- ② Put the cassette deck in record-pause mode.
- 3 Play the source and start recording.

### Copying tape (Tape dubbing TAPE 2 $\rightarrow$ TAPE 1)



② Select a source other than TAPE 1.





- 3 Play cassette deck 2 and start re-cording on cassette deck 1.
- For copying tape using a double cassette deck, read the instruction manual of the double cassette deck.

### Copying tape (Tape dubbing TAPE 1 $\rightarrow$ TAPE 2)

Play the cassette deck connected to the TAPE 1 jacks and start recording of the cassette deck connected to the TAPE 2 jacks.

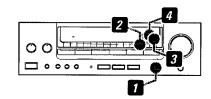
### Synchro recording

By connecting this unit to a CD player or turntable manufactured by KENWOOD through a system control cord, the CD or analog disc sound can be recorded with a simple operation on the cassette deck(s),

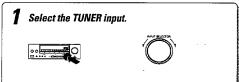
Select the music source to be recorded with the INPUT SELECTOR and put the cassette deck in record-pause mode. With this condition, press the play key of the CD player or turntable to start recording at the same time as the source component starts to play.

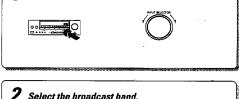
### Broadcast reception

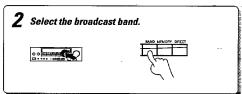


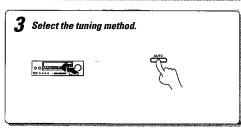


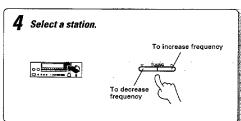
# Receiving broadcast station

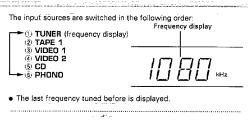






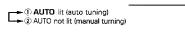






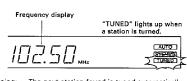


Each press switches the turning method as follows:



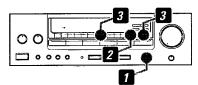
• Usually, set the switch to AUTO (auto tuning).

Select manual tuning when noise interferes due to weak radio wave. (The stereo broadcasting is received in monaural during manual tuning.)

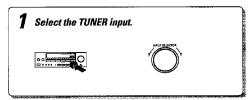


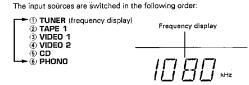
Auto tuning: The next station found is tuned automatically. Manual tuning: Press repeatedly or hold until a station is tuned.

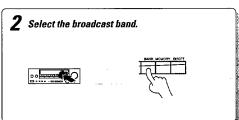


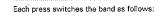


# Receiving radio station by specifying its frequency

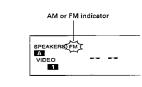


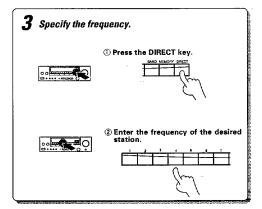




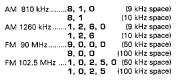


☐ Û FM ② AM





Press the numeric keys according to the frequency to be tuned as shown below.





• If you commit a mistake, repeat step 3 again.

### Preparation

+ P. 15

• Tune the station to be stored in memory.

# Storing radio stations in memory (Station preset)

### 1 Press the MEMORY key during receiving a station.







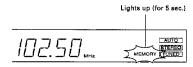


Proceed to step 2 within 5 sec. (If more than 5 sec. have elapsed, press the MEMORY key again.)

Select one of the preset numbers from 1 to 20.







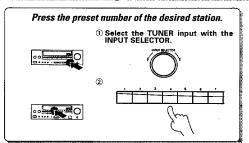
Press the numeric keys in the following order.

To store in "15" ..... +10, 5

To store in "20" ..... +10, +10, 0

- Repeat steps 1 and 2 for each of the stations to be stored in
- . If a station is stored in a preset number which already stores a station memory under it, the previous memory is replaced by the new memory content.
- Once the memory content has been preset, it is held for about 3 days even after the power cord is unplugged from the mains outlet.

# Receiving a preset station





Press the numeric keys in the following order

To recall "15" ......+10, 5 To recall "20" ......+10, +10, 0

# Receiving all preset stations in order

Press the P.CALL key.

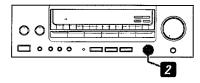




• Every time the key is pressed, the next station in the order of the preset number is received.

If the key is held pressed, ... Preset stations will be received successively for about half a second each.

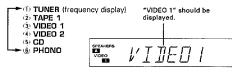
For the connections and operations, also read carefully the instruction manuals of the video components.



# Playback of videotape

- 1 Turn the power of the monitor TV ON.
- 2 Select the VIDEO 1 input.
- 3 Play the video deck.

The input sources are switched in the following order:



- · Select the input to which a video deck is connected.
- Recording of video source
- 1 Connect the video source component to be played.
- Connect the component to be played to the VIDEO 2 jacks.
- The connectable components include a video deck (playback only), video camera (playback only), LD player or DBS tuner.

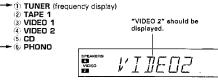
2 Select the VIDEO 2 input.



- 3 Play the source component.
- 4 Start recording on the recording video deck.

video camera (piayback only), LD player or DBS tuner.

The input sources are switched in the following order:



 Start recording with the video deck which is connected to the VIDEO 1 jacks.



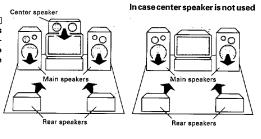
The surround modes allow to enjoy the feeling of presence in music. Select the mode according to the source or components played. For the connections of the rear and/or center speakers, refer to "Connection of speakers".

### DOLBY PRO LOGIC surround mode

Video and LD software programes carrying the TI TOWN SUMMOUND MARK contain recording of the same Dolby Surround data as those used in movie theaters. The DOLBY PRO LOGIC surround mode uses the Dolby Surround data and brings into home a similar sound field with full of presence to movie theatres.

To use this mode, connect the rear (and center) speakers.

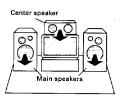
→ P.5



### DOLBY 3 STEREO mode

If the left and right speakers are installed apart from each other, the center acoustic image (words, etc.) may vary depending on the listener's position. The DOLBY 3 STEREO mode provides an improved positioning of the center acoustic image regardless of the listening position.

To use this mode, connect the center speaker. - P.5



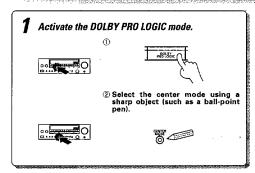
Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,959,590; Canadian numbers 1,004,603 and 1,037,877.

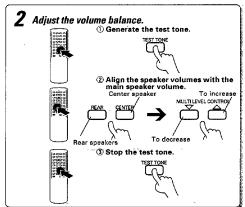
<sup>&</sup>quot;Dolby", "Pro Logic"and the double-D symbol 💌 are trademarks of Dolby Laboratories Licensing Corporation,

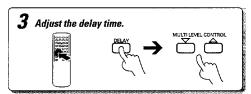


This mode provides a similar Dolby Surround effect used in movie theaters when a video (or LD) software programe carrying the IX [DOUR MARKONED] mark is played.

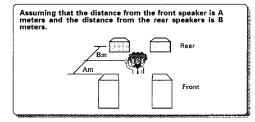
# **DOLBY PRO LOGIC surround arrangement**







#### How to calculate the proper delay time





Each press of the **CENTER MODE** key switches the center modes as follows:

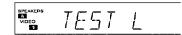
NORMAL : When the center speaker is a compact-sized speaker with the center speaker is a medium- or large-speaker.

→ ③ PHANTOM : When the center speaker is not used.

- If you cannot tell whether your center speaker is compact or me dium-sized, try two modes and select according to your liking.
- The selected center mode is automatically stored in memory and held unless it is changed later.
- The test tone which is heard like noise moves between speakers at an interval of 1.5 sec.

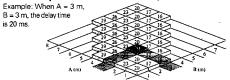
### In NORMAL and WIDEBAND In PHANTOM mode; modes:





- Be sure to adjust from your listening position.
- When a key is pressed, the corresponding volume level to the key is displayed on the display. While the level is displayed, it can be ad justed by 1 dB per press of the key.
- The volume levels can be adjusted in the range from -10 dB to +10 dB.
- When the DELAY TIME key is pressed, the delay time is displayed on the display.
- The delay time can be adjusted in the range from 15 ms to 30 ms, In 5 ms steps.
- Set the closest value to the value obtained with method (1) or (2) helow
- Once the delay time has been preset, it is held until it is re-set later.

#### ① Use the delay time calculation chart below;

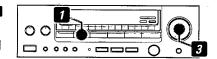


② Use the following formula for calculation.

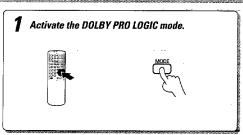
Delay time =  $20 + 3 \times (A - B)$  (Unit; ms)

Before playing a video (or LD) software program carrying the IXI COUNT SUMMOUND mark, be sure to complete the "DOLBY PRO LOGIC surround arrangement".





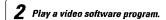
# DOLBY PRO LOGIC surround playback

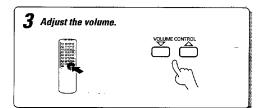




Each press of the key switches the modes as follows:

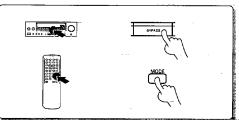
① PRO LOGIC ② 3 STEREO ③ OFF (BYPASS)







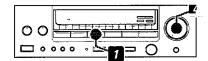
### To cancel DOLBY PRO LOGIC SURROUND play



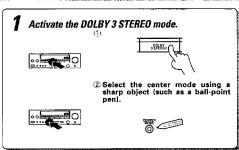


This mode improves the positioning of the acoustic image of words, etc., by applying directivity enhancer processing and using an additional center speaker when a video software program recorded with ordinary 2-channel stereo is played.





# **DOLBY 3 STEREO adjustment and playback**





Each press of the CENTER MODE key switches the center modes as follows:

→ ① NORMAL : When the center speaker is a compact-sized speaker.

— (2) WIDEBAND : When the center speaker is a medium- or

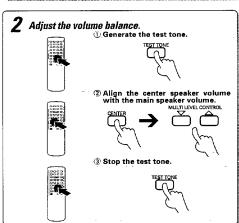
large-sized speaker.

If you cannot tell whether your center speaker is compact or me

dium-sized, try two modes and select according to your liking.

The selected center mode is automatically stored in memory as

 The selected center mode is automatically stored in memory and held unless it is changed later.

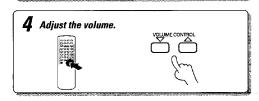


- The test tone which is heard like noise moves between speakers a an interval of 1.5 sec.
- Left (L)
  Center (C)
  Right (R)

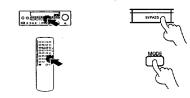


- Be sure to adjust from your listening position.
- When a key is pressed, the volume level is displayed on the display. While the level is displayed, it can be adjusted by 1 dB per press of the key.
- The center level can be adjusted in the range from -10 dB to +10 dB.
- The center level is stored in memory as the common settings with the DOLBY PRO LOGIC surround mode.

### 3 Play a video software program.



### To cancel DOLBY 3 STEREO play:



### n case of difficulty

### Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	Batteries are exhausted. The remote control unit is too far away from the main system, controlling angle is too large, or there is an obstacle in between. The audio cords and system control cords are not connected properly. The source component to be operated does not contain the tape(s) or CD. An attempt is made to play a tape which is being recorded in the cassette deck.	Replace with new batteries.  Operate the remote control unit within the controllable range.  Connect properly referring to "System connection".  Place the tape(s) or CD in the source component to be played.  Wait unit! the recording is completed.

### **Amplifier**

Symptom	Cause	Remedy
Sound is not output.	The speaker cords are disconnected.  The VOLUME is a standard or service of the content of	Connect them properly referring to "System connection".
	The VOLUME is set to the minimum position. The sound is muted, (The MUTING indicator)	Adjust the volume to a proper level.     Press the MUTING key to OFF. → P. 12
	is blinking.)	
	The SPEAKERS switches are set to OFF.  The TAPE 2 key is set to ON.	Set the SPEAKERS switch(es) to ON.     Set the TAPE 2 key to OFF.
The STAND BY indicator blinks and sound is not output.	Speaker cords are short- circuited.	Turn the power off, eliminate the short-circuiting, then turn on the power again.
Sound is not output from one of the speakers.	The speaker cord is disconnected.	Connect it properly referring "System con-
G13.	<ul> <li>The BALANCE control is set to an extreme position.</li> </ul>	nection".  • Adjust the Left/Right balance.
Sound is not output from the Surround rear speaker and/or center speaker, or	The rear-speaker cords and/or center speaker cord are disconnected.	Connect them properly referring to "System connection",
their sound is very small.	<ul> <li>A surround mode is not selected.</li> <li>The REAR VOL. and/or CENTER VOL. controls are set to the minimum level.</li> </ul>	<ul> <li>Select a surround mode.</li> <li>Adjust the REAR VOL. and CENTER VOL. controls.</li> </ul>
A hum noise is generated when PHONO input selector key is pressed.	The audio cord from the turntable is not in- serted securely into the PHONO jacks.	Insert the audio cord plugs securely into the PHONO jacks.
	The turntable is not grounded.	<ul> <li>Connect the grounding wire to the GND terminal on the rear panel.</li> </ul>

### Tuner

Symptom	Cause	Remedy
Radio stations cannot be received.	No antenna is connected. The broadcast band is not set properly. The frequency of the desired station is not tuned.	Connect an antenna.  Set the broadcast band properly.  Tune the frequency of the desired station.  En
Interference.	<ul> <li>Noise due to ignition noise of an automobile.</li> <li>Noise due to an influence from an electric appliance.</li> <li>Noise due to a nearby TV set.</li> </ul>	Install the outdoor antenna apart from the road. Turn off the power of the appliance. Install the system more apart from the TV set.
A station which was preset cannot be re- ceived by pressing the corresponding nu- meric key.	The preset station belongs to a frequency that cannot be received. The preset memory was cleared because the power cord had been unplugged for a long period of time.	Preset a station with a receivable frequency. Preset the station again.



- This system is microprocessor-controlled, so malfunction may occur due to external noise or interference noise. In such a case, unplug the power cord, plug it and turn power on again.
   Do not use contact cleaners because it could cause a malfunticon. Be specially careful against contact cleaners containing oil,
- because they may deform the plastic components.

### Specifications

 $A_{\!\scriptscriptstyle L}$  Caution : Read this page carefully to ensure safe operation

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### (For U.S.A. and Canada)

### **Audio section**

### Rated power output at the STEREO operation

70 watts per channel minimum RMS, both channels driven at 8  $\Omega$ , from 20 Hz to 20,000 Hz with no more than 0.06 % total harmonic distortions. (FTC)

Power output at the Surround operation
Front (1 kHz, 0.9 % T.H.D. at 8 Ω) 70 W + 70 W
Center (1 kHz, 0.9 % T.H.D. at 8 Ω)
Rear (1 kHz, 0.9 % T.H.D. at 8 Ω) 20 W + 20 W
Total harmonic distortion (1 kHz, 8 $\Omega$ ) 0.03 % at 50 W
Signal to noise ratio (IHF A)
PHONO (MM) 75 dB
CD, TAPE, VIDEO 100 dB
Input sensitivity / impedance
PHONO (MM) 2.5 mV / 47 kΩ
CD, TAPE, VIDEO 200 mV / 47 kΩ
Tone controls
BASS ± 10 dB (at 100 Hz)
TREBLE ± 10 dB (at 10 kHz)
Loudness control at - 30 dB level + 6 dB (100 Hz)

#### Video section

VIDEO inputs / outputs(Composite) ......1 Vp - p / 75  $\Omega$ 

### FM Tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Usable sensitivity (IHF)	13.2 dBf (1.2 μV at 75 Ω)
50 dB quieting sensitivity	• •
STEREO	41.2 dBf (32 μV at 75 Ω)
Total harmonic distortion at 1 kHz	
MONO	0.6 %
STEREO	0.7 %
Signal to noise ratio at 65 dBf (IHF)	
MONO	75 dB
STEREO	
Selectivity (IHF ± 400 kHz)	
Stereo separation (IHF at 1 kHz)	
Frequency response 30 Hz ~	

### **AM Tuner section**

Tuning frequency range	530 kHz ~ 1,700 kHz
Usable sensitivity	12 μV / (500 μV / m)
Total harmonic distortion	0.7 %
Signal to noise ratio	48 dB
Selectivity	30 dB

### General

Power consumption	
AC outlet	2: (total 200 W. 1.6 A max
Dimensions	
	H :143 mm (5-5/8
	D :334 mm (13-1/8
Weight (net)	9.5 kg (20.9 li

### (For other countries)

### Audio section



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