

AUDIO VIDEO STEREO RECEIVER

INSTRUCTION MANUAL

KENWOOD CORPORATION

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 dealer for information or service on this product. Serial Number .

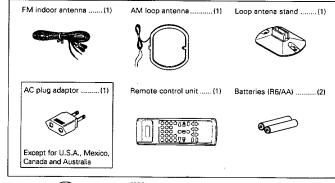
Unpacking

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 carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you trans-

port or ship the unit in the future.

Accessories



B60-1437-10 (K,P,M,X,Y,R) (MC)

Before applying power

 Δ Caution : Read this page carefully to ensure safe operation.



Before applying power

Units are designed for operation as follows.

Other countries 110-120/220-240 V switch

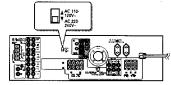
AC voltage selection

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 UNINSULATED "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 ALERT THE 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 LeftRight, Center and Rear surround channels using the built-in directivity enhancer circuit to reproduce the feeling of sound motions very 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.

DSP LOGIC

This mode adds presence sound components obtained from the DSP (Digital Signal Processor) to the signals output from the DOLBY PRO LOGIC (Left, Center, Right and Surround channels), allowing movie software programs to be played with a similar feeling of presence to movie theaters in a listening room in home.

DSP presence

This mode adds presence sound components obtained from the DSP (Digital Signal Processor) to the original source signals, allowing music source entertainment with the feeling of presence in an arena, stadium or jazz club in a listening room at home.

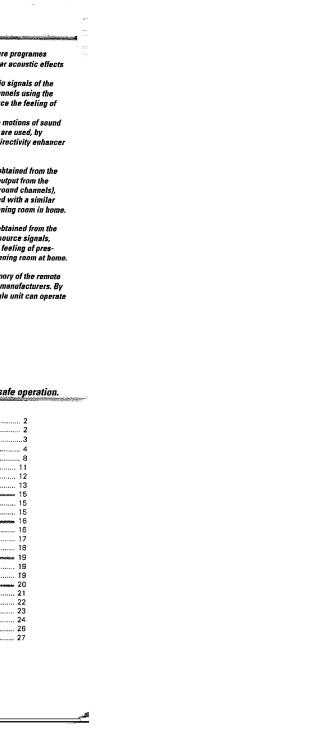
PRESET REMOTE CONTROL

The preset remote control contains preset memory of the remote control codes of video components from many manufacturers. By simply entering the manufacturer codes, a single unit can operate video components owned by individual users.

Contents

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

	Service Constitution of the Constitution of th
Before applying power	
Special feature System connection Controls and indicators Operation of remote control unit Playing music Sound adjustment functions Recording	
Broadcast reception Operation of video components	Recording
	Playback of videotape 1 Recording of video source 1
In case of difficulty Specifications	DOLBY PRO LOGIC surround adjustment 2

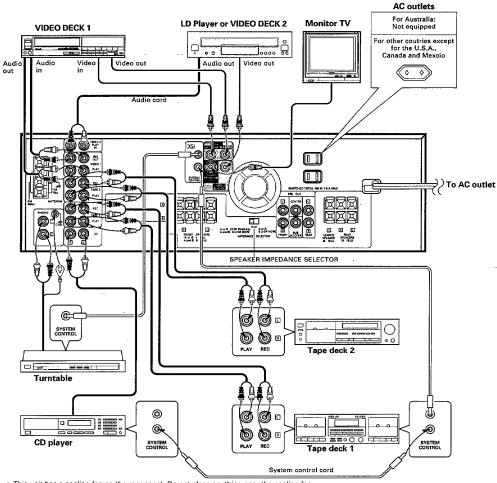






Make connection as shown below.

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.



• This unit has a cooling fan on the rear panel. Do not place anything near the cooling fan.

Automatic operation

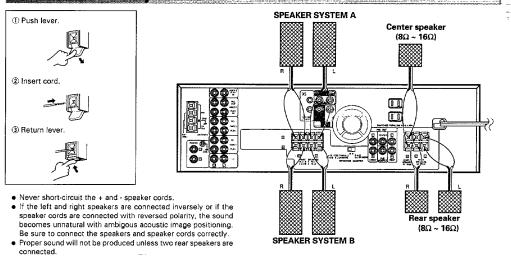
When this unit is connected to KENWOOD system components such as a cassette deck and CD player through system control cords and the input source is selected with the INPUT SELECTOR, the selected component starts to play automatically. Inversely, playing a component automatically selects that source as 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



Speaker IMPEDANCE SELECTOR CAUTION : During operation of the speaker IMPEDANCE SELECTOR, set the POWER switch to OFF.

Set the IMPEDANCE SELECTOR switch on the rear panel according to the impedance of the front speakers used. The center and rear speakers should have impedances from 8 to 16 ohms regardless of the position of this switch.

Front speaker impedance	Selector position
A or B speakers $4\Omega\sim 6\Omega$ A and B speakers $8\Omega\sim 16\Omega$	A or 8 : LESS THAM 8 0 A Or 8 : A Or 8 : A Or MORE 8 0 OF MORE MIFEDANCE SELECTOR
A or B speakers $8\Omega\sim 16\Omega$	A or B : LESS THAN B 0 A Or B : A and B : B 0 OH MORE B 0 OF MORE IMPEDANCE SELECTOR

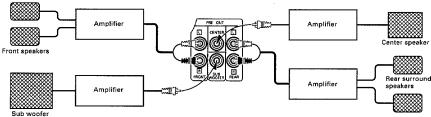
- It is not possible to use both A and B speaker systems for surround play.
- It is not possible to use both A and B speaker systems if speakers have impedances from 4 ohms to 6 ohms.

PRE OUT jacks

Use these jacks when you want to play music with larger volume level than the level obtained with normal connection, or when you want to enjoy music with different tones.

Speakers cannot output sufficient sound level even when they are connected directly to the PRE OUT jacks. These jacks should be connected to speakers containing an amplifier or to amplifiers to which speakers are connected.

Be sure to press the SPEAKERS switch (A and/or B) to ON.



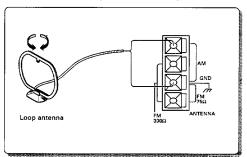
· Connect a sub woofer if you want to enhance the bass sound.



Connection method to each antenna terminal ① Push lever. 2 Insert cord. 3 Return lever.

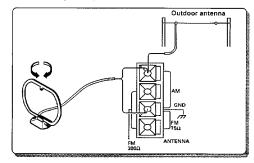
Connection of AM antenna

AM loop antenna connectionThe 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

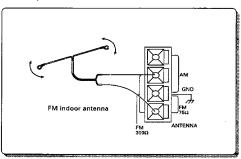
If the reception is poor when the AM loop antenna is used, distribute a vinyl-coated wire of more than 6 meters outdoors, without disconnecting the loop antenna.



Connection of FM antenna

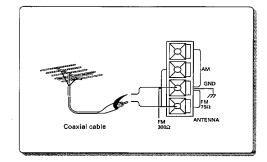
FM indoor antenna connection

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

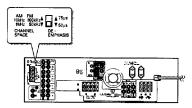
Lead the 75 Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75 Ω terminal.



FM DE-EMPHASIS / CHANNEL SPACE switch (Except for U.S.A., Mexico, Canada 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 ice 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.

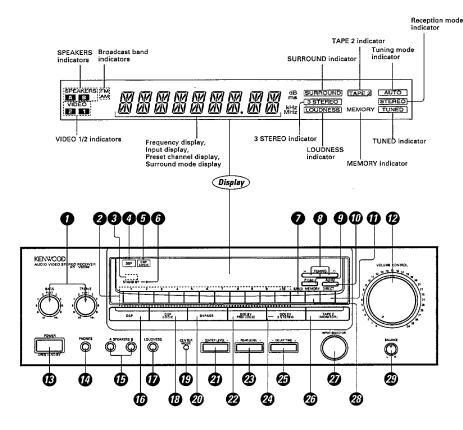
 When changing the setting of the FM DE-EMPHASIS / CHAN-NEL SPACE switch, first disconnect the power cord of the amplifier, then reset the channel space switch, connect the power cord again, and turn the power on.



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

Controls and indicators





- TONE control knobs
- Numeric keys
- Remote control sensor
- O DPS indicator Lights in the DSP modes.
- O DSP LOGIC indicator
- Lights in the DSP LOGIC mode.
- **3 STAND BY indicator**
- BAND key
- Press to switch the broadcast band.
- 10 TUNING keys
- Press to tune broadcast stations.
- P.CALL key
- Press to recall a preset station.
- **@AUTO** key
 - Press to select the auto tuning mode.

- DIRECT key
- Press for direct station tuning based on numerical input.
- **WVOLUME CONTROL knob**
- **®**POWER key
- **OPHONES** jack
- Used for headphone listening.
- **@SPEAKERS A/B keys**
- Press to select the A and/or B speaker systems.
- **®DSP** key
- **DLOUDNESS** key
- Press to enhance low frequencies.
- **®DSP LOGIC key**
- **®CENTER MODE key**
- Press to select the center mode of the DOLBY PRO LOGIC surround play.

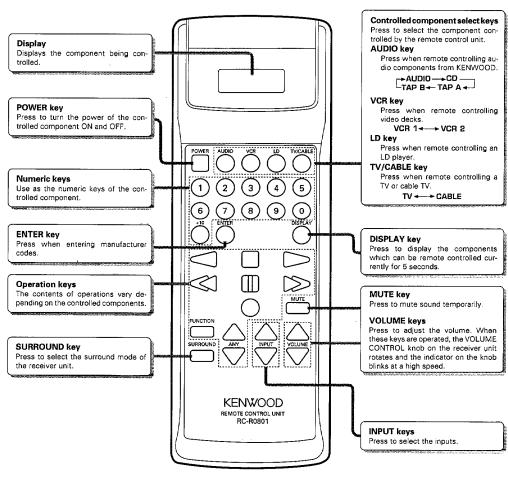
- **®BYPASS** key
- Press to cancel the surround modes.
- CENTER LEVEL key
- **DOLBY PRO LOGIC key**
- REAR LEVEL kev
- **DOLBY 3 STEREO** key
- DELAY TIME key
- Press to adjust delay time.
- **TAPE 2 (MONITOR) key**
- Press to monitor the sound being recorded. **MINPUT SELECTOR knob**
- Turn to select the input sources.
- MEMORY key
- Press to preset a station in the memory.
- @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 RC-R0801 remote control unit provided with this unit can control KENWOOD cassette decks and CD player as well as the receiver unit. In addition, it can also control video components from other manufacturers than KENWOOD by recalling the manufacturer codes preset with it. For the methods of recalling manufacturer codes and other operations, please read the instruction manual provided separately from this manual.



Model: RC-R0801 Infrared ray system

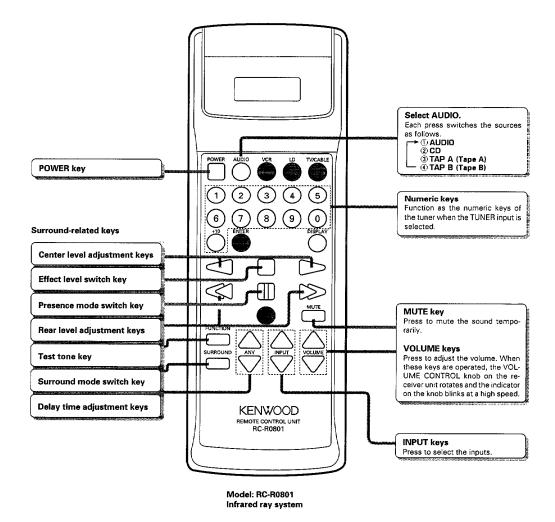
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Remote control of the receiver unit

To remote control the receiver unit:

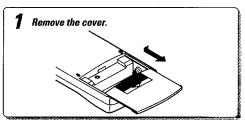
- ① Press the AUDIO key to display "AUDIO".
- ② Press the POWER key to turn the receiver unit ON.
- 3 Press operation keys.

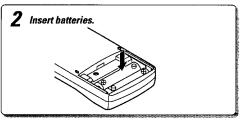


 The remote control unit provided with this unit can control KENWOOD cassette decks and CD player connected to the receiver unit through system control cords. For the detailed operation method, please read the instruction manual provided separately from this manual.

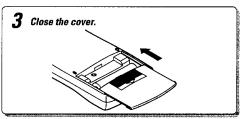
Operation of remote control unit

Loading batteries



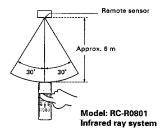


Insert two AA-size (R6 / SUM-3) batteries as indicated by the polarity marking.



Operation procedure

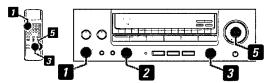
Plug the power cord of the system into an AC wall outlet, and press the POWER key on the remote control unit to turn the power on. When the power is turned on, press the key of the source component to be operated.

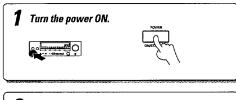


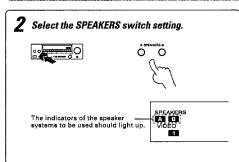
- When two operation keys on the remote control unit are pressed successively, press each key securely reserving an interval of more than 1 second for each press.
- Components connected via the system control cords, such as the CD player, can also be remote-controlled. In this case, please read the instruction manual supplied with your components.
- When the batteries are exhausted and replacement becomes necessary, replace them with alkaline batteries (LR6).

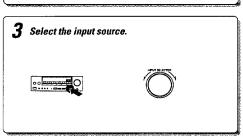


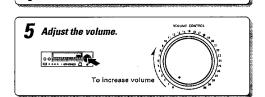
- 1. The supplied batteries are intended for use in operation checks. Therefore, their lives may be shorter than ordinary batteries.
- 2. When the remote-controllable distance gets shorter than before, replace both batteries with new ones.
- Malfunction may occur if direct sunlight or the light of a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











4 Play the selected source.

A, B OFF

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 cassetfe 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 input sources are switched in the following order:

- ① TUNER (frequency display)
- ② TAPE 1 ③ VIDEO 1

- ⊕ CD ► ® PHONO

The selected source

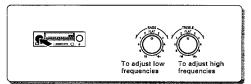
is displayed.

• 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 indicator on the VOLUME CONTROL knob blinks.

Sound adjustment functions

Adjusting the tone

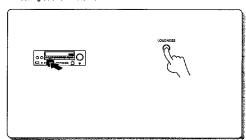


Adjusting the left/right sound balance

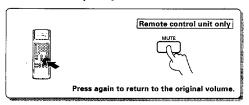


Using the LOUDNESS key

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

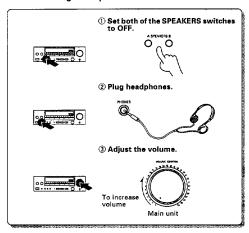


To cancel the loudness function
Press the key again.

Goes off

• The indicator on the VOLUME CONTROL of the main unit blinks.

To listen through headphones



Recording

To record a music source

① Select the source to be recorded.

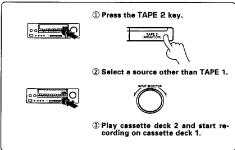




Select an input source other than TAPE 1.

- Put the cassette deck in recordpause mode.
- 3 Play the source and start recording.

Copying tape (Tape dubbing TAPE 2 → TAPE 1)





• For copying a tape using a double cassette deck, read the instruc-

tion manual of the double cassette deck.

Copying tape (Tape dubbing TAPE 1 → 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.

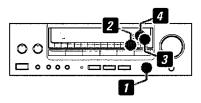
Synchro recording

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).

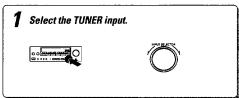
Select the music source to be recorded with the INPUT SELECTOR and put the cassette deck in record-pause mode. With this condition, press the play key of the CD player or turntable to start recording at the same time as the source component starts to play.

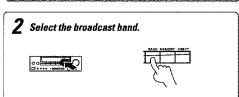
Broadcast reception

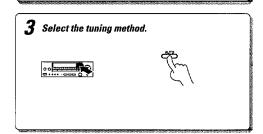


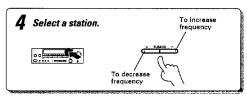


Receiving broadcast station









The input sources are switched in the following order:



The last frequency tuned before is displayed.

Each press switches the band as follows:

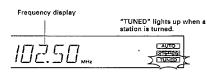


Each press switches the turning method as follows:

① AUTO lit (auto tuning) ② AUTO not lit (manual turning)

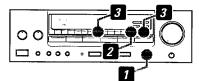


Usually, set the switch to AUTO (auto tuning).
 Select manual tuning when noise interferes due to weak radio wave.
 (The stereo broadcasting is received in monaural during manual tuning).

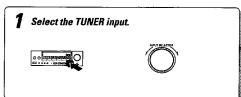


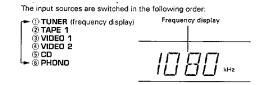
Auto tuning: The next station found is tuned automatically. Manual tuning: Press repeatedly or hold until a station is tuned.

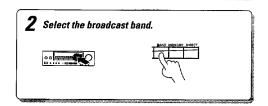


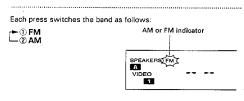


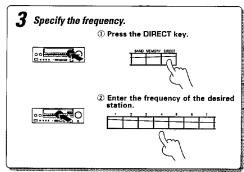
Receiving radio station by specifying its frequency

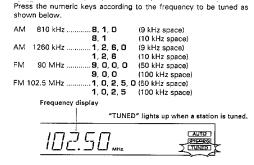












If you make a mistake, repeat step 3 again.



Preparation

→ P.18

- Tune the station to be stored in

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.)

2 Select one of the preset numbers from 1 to 20.





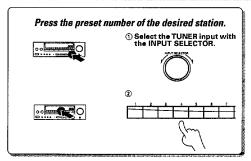


Press the numeric keys in the following order

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
- 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



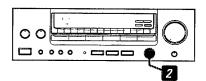
• Every time the key is pressed, the next station in the order of the preset number is received.

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

Operation of video components

For the connections and operations, also read carefully the instruction manuals of the video components. $\rightarrow \mathbb{R}^4$





Playback of videotape

- 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

- Connect the video source component to be played.
- 2 Select the VIDEO 2 input.
- 3 Play the source component.
- 4 Start recording on the recording video deck.

- · 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.

The input sources are switched in "VIDEO 2" should be displayed. the following order: ① TUNER (frequency display) ② TAPE 1 ③ VIDEO 1 ► ⑥ PHONO

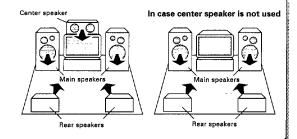
• Start recording with the video deck which is connected to the VIDEO

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 programs carrying the DCI COMP SUMMOUND mark contain recording of the same Dolby Surround data as those used in movie theaters.

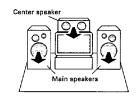
The DOLBY PRO LOGIC surround mode uses the Dolby Surround data and brings into home a similar sound field with full of presence to movie theatres. To use this mode, connect the rear (and center) speakers.



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.

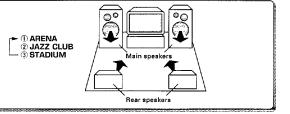
the listening posாயா. To use this mode, connect the center speaker. - இதி



DSP presence mode

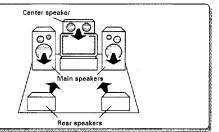
This mode provides a live atmosphere to music sources. By adding the reverberation component of one of the three sound fields of this mode, it allows to enjoy three kinds of sound fields with full of feeling of presence. The sound field can be selected according your liking.

To use this mode, connect the rear speakers.



DSP LOGIC

This mode provides the atmosphere of a movie theater by adding the reverberation component of movie theater to the DOLBY PRO LOGIC. To use this mode, connect both the rear and center speakers.



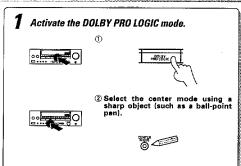
What is DSP?

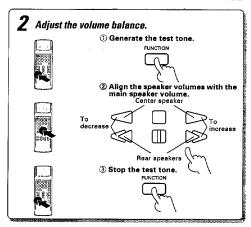


The DSP stands for Digital Signal Processor. In the DSP presence and DSP LOGIC modes, the reverberation components (elements of sound echoed in various spaces) which determine the feeling of presence are created by digital processing by the DSP without spoiling the sound quality of the original music source.

This mode provides a similar Dolby Surround effect used in movie theaters when a video (or LD) software program carrying the COLEY SURROUND mark is played.

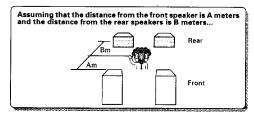
DOLBY PRO LOGIC surround arrangement







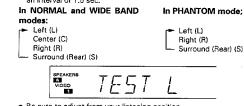
How to calculate the proper delay time





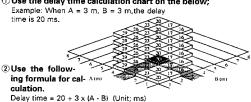
Each press of the CENTER MODE key switches the center modes as

- ► ① NORMAL When the center speaker is a compact-sized speaker.
- ② WIDE BAND: When the center speaker is a medium- or large-sized speaker.
- ③ PHANTOM : When the center speaker is not used. • If you cannot tell whether your center speaker is compact or medium-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.



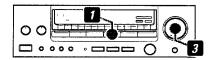
- · Be sure to adjust from your listening position.
- . When a key is pressed, the corresponding volume level to the key is displayed on the display. While the level is displayed, it can be adjusted by 1 dB per press of the key.
- The volume levels can be adjusted in the range from -10 dB to +10
- The center level is stored in memory as the common settings with the DSP LOGIC/DOLBY 3 STEREO mode and the rear level is stored as the common settings with the DSP LOGIC and DSP presence modes
- When the DELAY TIME key is pressed, the delay time is displayed
- The delay time can be adjusted in the range from 15 to 30 ms, in 5 ms steps.
- Set the closest value to the value obtained with method ① or ②
- Once the delay time has been preset, it is held until it is re-set later.

① Use the delay time calculation chart on the below;

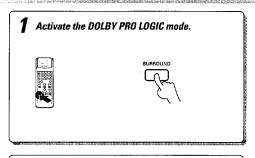


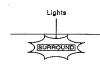






DOLBY PRO LOGIC surround playback



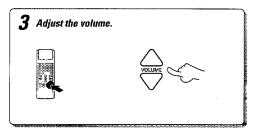


Each press of the key switches the modes as follows:

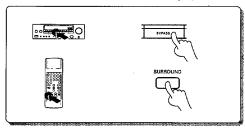
- ① PRO LOGIC ② 3 STEREO ③ DSP ④ DSP LOGIC

- (5) OFF (BYPASS)

2 Play a video software program.



To cancel DOLBY PRO LOGIC SURROUND play



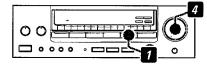


Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,959,590; Canadian numbers 1,004,603 and 1,037,877.

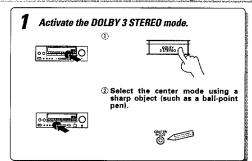
"Dolby", "Pro Logic" and the double-D symbol 🔀 are trademarks of Dolby Laboratories Licensing Corporation.







DOLBY 3 STEREO adjustment and playback





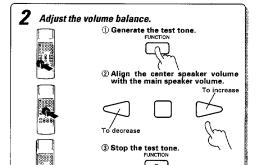
Each press of the CENTER MODE key switches the center modes as

NORMAL

: When the center speaker is a compact-sized speaker.

- ② WIDE BAND: When the center speaker is a medium- or largesized speaker.

- If you cannot tell whether your center speaker is compact or medium-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.

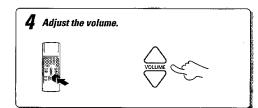


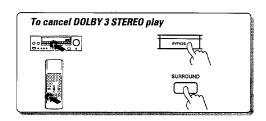
- The test tone which is heard like noise moves between speakers at an interval of 1.5 sec.
- Center (C) Right (R)



- 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 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 and DSP LOGIC modes.

3 Play a video software program.





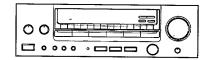


The DSP modes allow to enjoy various sound fields. By varying the settings, it is also possible to create the user's desired sound field. The settings should be adjusted from γour listening position.

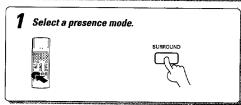
Preparation

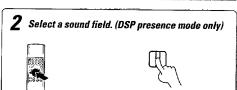
Play a video source.



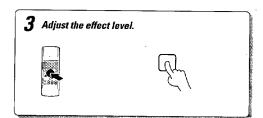


Enjoying music with a feeling of presence





Steps 1 and 2 are enough for obtaining sufficient sound field effect. Proceed to steps 3, 4 and 5 below it you like.



Each press of the key switches the modes as follows:

- ① PRO LOGIC 2 3 STERED
- ③ DSP 4 DSP LOGIC
- (BY-PASS)



Either should light.

· Select in consideration of the speaker layout and the source played

- - Reproduces a live feeling like the front row in a concert arena.
- ② JAZZ CLUB

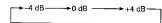
Reproduces the sound field of a jazz live house where cymbals sound impressively.

③ STADIUM

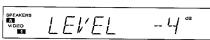
Reproduces an open atmosphere with few reverberated



- The values set in the following steps are reset to the initial values when another sound field or one of the Dolby surround modes is selected.
- The reverberation can be adjusted in 3 steps as desired.
- When the key is pressed, the effect level is displayed on the dis-
- The effect level can be switched as shown below.

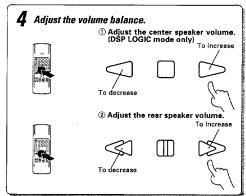


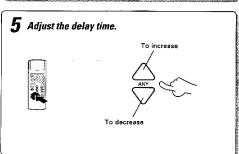
• The initial setting of the effect level is 0 dB.

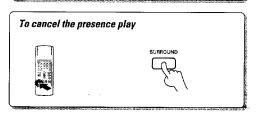












CENTER +5°

- When the key is pressed, the center volume level is displayed on the display. The level can be adjusted by 1 dB per press.
- The center volume level can be adjusted in the range from -10 dB to +10 dB.

REAR

+ 7°

- When the key is pressed, the rear volume level is displayed on the display. The level can be adjusted by 1 dB per press.
- The rear volume level can be adjusted in the range from -10 dB to +10 dB.
- The rear level is stored in memory as the common setting with the DOLBY PRO LOGIC mode and the center level is stored as the common settings with the DOLBY PRO LOGIC and DOLBY 3 STEREO mode.

JELAY 30 -

- When the key is pressed, the delay time is displayed on the display, which can be adjusted by 5 ms steps per press.
- The delay time can be adjusted in the range from 10 ms to 60 ms.
 The initial setting of the delay time in each mode is as shown be-
- The initial setting of the delay time in each mode is as shown below.

DSP LOGIC40	ms
ARENA30	ms
JAZZ30	ms
STADIUM30	ms



 Be sure to set the SURROUND to OFF when the presence play is not required.

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 set to the minimum position. The MUTE key is set to ON and the point indicator is blinking. The SPEAKERS switches are set to OFF. The TAPE 2 key is set to ON.	Onnect them properly referring to "System connection". Adjust the volume to a proper level. Press the MUTE key to OFF 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. The BALANCE control is set to an extreme position.	Connect it properly referring to "System connection". Adjust the Left/Right balance.
Sound is not output from the Surround rear speaker and/or center speaker, or their sound is very small.	The rear-speaker cords and/or center speaker cord are disconnected. The Surround play mode has not been engaged. The REAR VOL. and/or CENTER VOL, controls are set to the minimum level.	Connect them properly referring to "System connection". Set the presence mode. Adjust the REAR VOL. and CENTER VOL. controls.
A hum noise is generated when the PHONO input selector key is pressed.	The audio cord from the turntable is not inserted securely into the PHONO jacks. The turntable is not grounded.	Insert the audio coed plugs securely into the PHONO jacks. Connect the grounding wire to the GND terminal on the rear panel.

Tuner

Tuilei		
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. Call
interference.	Noise due to ignition noise of an automobile. Noise due to an influence from an electric appliance. Noise due to a nearby TV set.	Install the outdoor antenna away from the road. Turn off the power to the appliance. Install the system farther away 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. The TUNER input is not selected.	 Preset a station with a receivable frequency. Preset the station again. Select the TUNER input.



- 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. Therefore, their lives may be shorter than ordinary batteries.
 Do not use contact cleaners because it could cause a malfunticon. Be specially careful against contact cleaners containing oil, for they may deform the plastic components.



t. Caution : Read this page carefully to ensure safe operation

For the U.S.A., Mexico and Canada

Audio section

Rated power output at the STEREO operation

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

Power o	utput at the Surround operation
Front	(1 kHz, 0.9 % T.H.D. at 8 Ω) 100 W + 100 W
Center	(1 kHz, 0.9 % T.H.D. at 8 Ω) 100 W
Rear	(1 kHz, 0.9 % T.H.D. at 8 Ω) 25 W + 25 W

Total harmonic distortion (1 kHz, 8 Ω) 0.03 % at 50 W
Frequency response 10 Hz ~ 50 kHz, + 0 dB, - 3 dB
Signal to noise ratio (IHF A)
PHONO (MM) 76 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 + 8 dB (100 Hz)

Video section

VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω

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 68 dB
Selectivity (IHF ±400 kHz) 50 dB
Stereo separation (IHF at 1 kHz) 40 dB
Frequency response 30 Hz ~15 kHz, + 0.5 dB, - 3.0 dB
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		3.5 A
AC outlet		
SWITCHED	2: (total 200 V	V, 1.6 A max.)
Dimensions	W:440 mm	(17-5/16")
	H:143 mm	(5-5/8")
	D:401 mm	(15-13/16")
Weight (net)	*************************	12 kg (26.5 lb)



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

Specifications

⚠ Caution : Read this page carefully to ensure safe operation.

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For other countries

Audio section

Video section

Rated power output at the STEREO operation			
(EIAJ) 1 kHz, 10 % T.H.D., at 8 Ω135 W + 135 W			
(IHF '66) from 20 Hz to 20 kHz,			
0.06 %	T.H.D., at 8 Ω 100 W + 100 W		
Power o	output at the Surround operation		
Front	(1 kHz, 0.9 % T.H.D. at 8 Ω) 100 W + 100 W		
Center	(1 kHz, 0.9 % T.H.D. at 8 Ω) 100 W		
Rear	(1 kHz, 0.9 % T.H.D. at 8 $\Omega)$ 25 W + 25 W		
Total harmonic distortion (1 kHz, 8 Ω) 0.03 % at 50 W			
Frequency response			
Signal to noise ratio (IHF'66)			
PHONO	(MM) 76 dB		
CD, TAPE, VIDEO 100 dB			
Input sensitivity / impedance			
PHONO	(MM) 2.5 mV / 47 kΩ		
CD, TAP	PE, VIDEO 200 mV / 47kΩ		
Tone cor	ntrols		
BASS	± 10 dB (at 100 Hz)		
TREBLE	± 10 dB (at 10 kHz)		
Loudnes	s control at - 30 dB level + 8 dB (100 Hz)		

VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω

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	68 dB
Selectivity (IHF ± 400 kHz)	50 dB
Stereo separation (IHF at 1 kHz)	40 dB
Frequency response 30 Hz ~ 15 I	Hz, + 0.5 dB, - 3.0 dB
AM Tuner section	
Tuning frequency range	
9 kHz	. 531 kHz ~ 1,602 kHz
10 kHz	. 530 kHz ~ 1,610 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	330 W
AC outlet	
SWITCHED	2: (total 200 W max.)
(Except for Australia)	
Dimensions	W:440 mm
	H:143 mm
	D:401 mm
Weight (net)	12 kg



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