# **SENWOOD**

COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

# XD-951 XD-A900 XD-A700

# INSTRUCTION MANUAL

KENWOOD CORPORATION

This instruction manual is used to describe multiple models listed above.

Model availability and features (functions) may differ depending on the country and sales area.



XD-951 / A900/470

## Units are designed for operation as follows.

Australia ...... AC 240 V only

Europe and U.K	AC 230 V
China and Russia	AC 220 V
*Other countries	AC 110-120 / 220-240 V switch

## For the United Kingdom

## Factory fitted moulded mains plug

- 1. The mains blug contains a fuse. For replacement, use only a 13-Amp ASTA-approved (BS1362) fuse
- 2 The fuse cover must be refitted when replacing the fuse in the moulded build
- 3.Do not cut off the mains plug from this equipment. If the plugfitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer. If nonetheless the mains plug is out off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by nadvertent connection to the mains supply

IMPORTANT: The wires in the mains lead are coldured in accordance with the following code:

> Blue : Neutral Brown Live

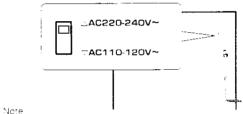
Do not connect those leads to the earth terminal of a three-bin plug

## \*AC voltage selection

The AC voltage selector switch on the rear panel is set to the volt that prevails in the area to which the unit is shipped. Before necting the power cord to your AC outlet, make sure that the sett position of this switch matches your line voltage in not in must set to your voltage in accordance with the following prestion.

## AC voltage selector switch

Move switch, ever to match your line up tage with a small screwdriver or other pointed too



Our warranty does not cover damage caused by excessive the age due to improper setting of the AC voltage rewator awaton.

# 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 COVE (OR BACK), NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUAL FIED SERVICE PERSONNEL



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDE TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITH NITH PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELET TRIC 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 TH LITERATURE ACCOMPANYING THE APPLIANCE

## REQUIREMENT BY NEDERLAND GAZETTE

Batteries are supplied with this product. When they empty, you should not throw away instead, hand them in as small chemical waste



## The marking of products using lasers (Except for some areas)

CLASS 1 LASER PRODUCT

The marking is located on the rear panel and says that the com: nent uses laser beams that have been classified as Class 1. It mea that the unit is utilizing laser beams that are of a weaker class. The is no danger of hazardous radiation outside the unit.



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# Special features

## DOLBY Pro Logic Surround

The Dorby Pro Logic and Dorby 3 Stereo are tob-lever surround modes that can reproduce the world of C dimensional audio

## Built in sub woofer (XD-951/XD-A900 only)

Each 3-way speaker incorporates an additional sub-woofer to improduce neavy bass more powerfully that conventional system speakers

## 3D Wide FL display

The easy to see graphical display features a large spectrum analyzer. A running indicator shows the open tions such as CD playback and skipping at a glande

## Easy to operate, new multi control jog dial

The jog dial makes possible easy setup of CD playback, timer recording mayback and other nucrations wh monitoring the displayed information. The same operation is also available on the remote control (2) to

## 3-Disc carousel CD player

Three discs can be set. There are various ways for encyment at the time of program playback, repe blayback, random playback, etc



When the power supply is restored after a power failure or the power cord is unplugged and plugged in again during use, this unit auto matically starts the demonstration function (display on y). During the demonstration, the display changes in sequence but the audio does not change. The demonstration can be canceled with the following procedure



To switch over the demonstration:

Turn the unit OFF (STANDBY mode) and press the key.

Each press of the key switches the demon stration as shown below.



1 DEMO (Demonstration executed)

2 OFF (Demonstration canceled)

Press the key during demonstration to stop it

• Even when DEMO is ON, stations with weak radio waves are muted and their sound cannot be heard.

## 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, not fy your dealer immediate your vices unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving t unit) can file a claim against the carrier for shipping damage.

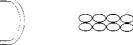
We recommend that you retain the original carton and packing materials for use should you transport of ship the unit in the future.

## Accessories

Remote control unit (1)



AM loop antenna (1)



Loop antenna stand (1)



XD-951/XD-A900 Speaker cords (2) XD-A700





## Surround speaker system Surround speaker (2)

Speaker cord (2) Speaker stabilizer (8) Mall mount bardware (2) Screw (4)

## Center speaker (1)

Speaker cord (1) Speaker stabilizer (4)\*

\*Except for CRS-N551

FM indoor antenna (1)

Batteries (R6/AA) (2)



Other countries





AC plug adaptor (1)



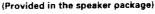
Use to adapt the plug on the power cord to the shape of the war outlet. (Accessory only for regions where use is necessary.)





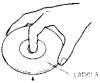






# landling of discs and tapes

## **Disc handling precautions**



## Handling

nord compact discs so that you go not touch the playing surface

Labous de Pray no side

STOKEL ET



Do not attach paper or tape to either the playing side of the label's delof compact discs

Storil past-

## Cleaning

if tingerprints or toreign matter become attached to the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.

## Storage

When a disc is not to be played for a long period of time, remove it from the CD player and store it in its case

## CD accessories

The CD accessories (stabilizer, protection sheet, protection ring, etc.) which are marketed for improving the sound quality or protecting discs as well as the disc cleaner should not be used with this system be-

cause they may cause mailtunction

## Discs which can be played with this unit

## CD (12 cm, 8 cm), CDV (only the audio part)

- With CD-G (CD Graphics) discs, this unit can play only the audio.
- Prease do not use discs which are not round because they may cause a malfunction.

## Caution on disc used





## Never play cracked or warped disc.

During playback, the disc rotates at night speed in the player Therefore, to avoid malfunction, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent

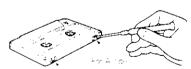
## Do not use cleaning discs.

Please do not use commercially available cleaning discs, they may gamage the internal mechanism

## Votes on cassette tape

## afety tab (accidental erasure prevention tab)

tter at important recording has been this heal break the safety tab prevent the recorded contents from being erased or recorded on platenta s



-yr∃sde

## To store cassette tapes

Do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



## When there is slack in the tape

in such a case, insert a pencil into the reel note and wind the reel hub to remove the stack.





To re-record

Apply tape only to the position where the tab has been removed

## 1. Longer tape than 110 minutes cassette tape

Since longer tape than 110 minutes cassette tape is very thin it the tabe could adhere to the pinch rover or beleas ly but

## 2. Endless tapes

Do not use an endiess tape, as this could damage the mechanism of the unit.



# Connection of the System Accessories

This is the connection method for system and accessories. Please look carefully at the illustration and connect correctly in the order of the numbers.

## Malfunction of microcomputer

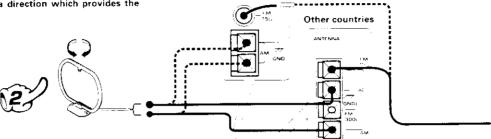
If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".

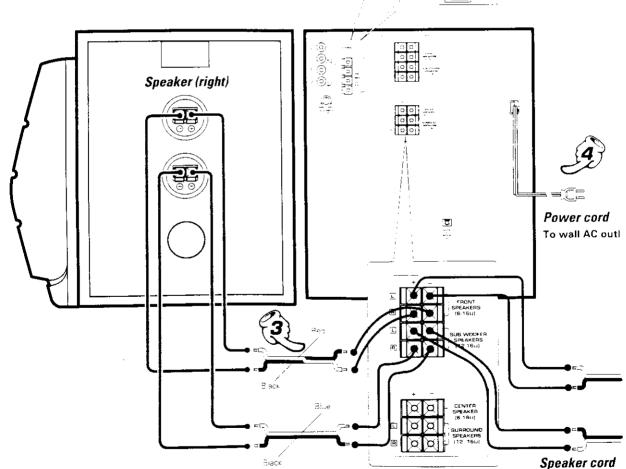


## AM loop antenna

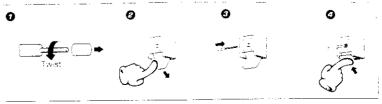
The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.

## Europe and Russia





## Main Unit



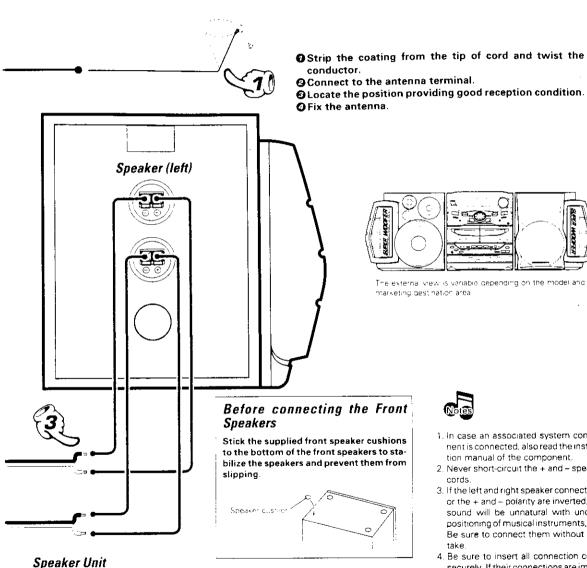
## Caution regarding placement (Except for U.S.A. and Canada)

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

rear panel: 10 cm

## 'indoor antenna

accessory antenna is for temporary indoor use only. For stable al reception we recommend using an outdoor antenna. Remove indoor antenna if you connect one outdoors.



- 1. In case an associated system component is connected, also read the instruction manual of the component.
- Never short-circuit the + and speaker
- 3. If the left and right speaker connections or the + and - polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc. Be sure to connect them without mis-
- 4. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
- 5 Before plugging or unplugging a connection cora, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unri indedica thithe posser cord left plagged

# System connection (XD-A700)

# Connection of the System Accessories

This is the connection method for system and accessories. Please look carefully at the illustration and connect correctly in the order of the numbers.

## Malfunction of microcomputer

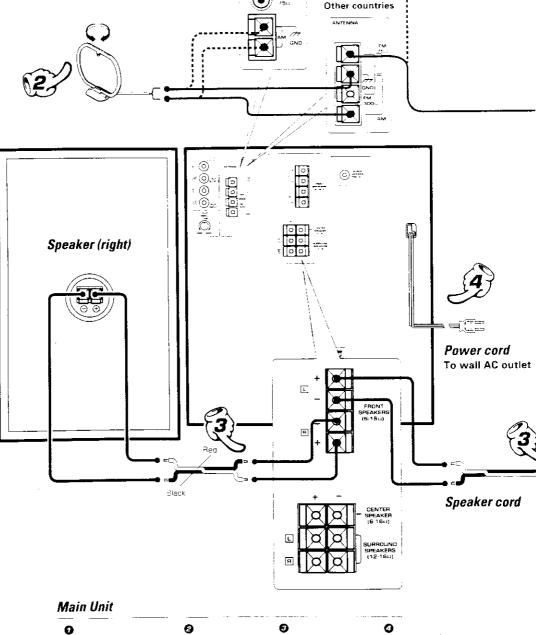
If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".



## AM loop antenna

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.

Europe and Russia



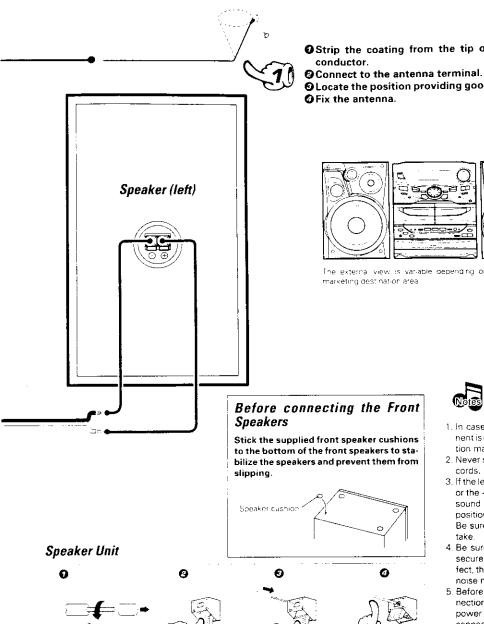
## Caution regarding placement

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

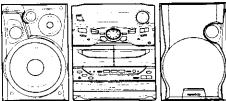
rear panel: 10 cm

## M indoor antenna

he accessory antenna is for temporary indoor use only. For stable gnal reception we recommend using an outdoor antenna. Remove ie indoor antenna if you connect one outdoors.



- OStrip the coating from the tip of cord and twist the
- O Locate the position providing good reception condition.



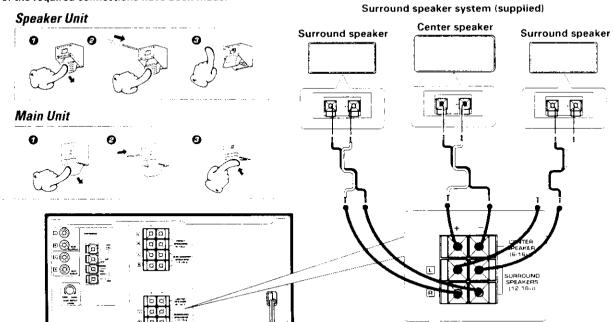
The external view is variable depending on the model and



- 1. In case an associated system component is connected, also read the instruction manual of the component.
- 2. Never short-circuit the + and speaker cords.
- 3. If the left and right speaker connections or the + and - polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc. Be sure to connect them without mis-
- 4. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere
- 5. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unby jaged with the nower cord left bligged

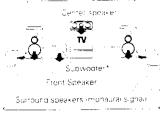
# Connection of the surround speakers

Do not plug the power cord into the power outlet until all of the required connections have been made.



## **Dolby Pro Logic**

Dolby Pro Logic is a specially encoded 2 channel surround format designed to provide theater-like surround sound from Dolby Surround encoded sources (such as video and Laserdisc software marked Dioby Surround.). This unit is equipped with a Dolby Surround decoder to let you enjoy the wide variety of currently available Dolby Surround home video software.



\* Optional in this mode

## Recommended speaker installation

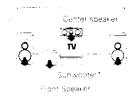
It is recommended that the surround speakers are installed straight to the left and right of the listening position or slightly behind, at a height of about 1 meter higher than the listener's ears. Each surround speaker should be installed so that the longer sides are horizontal.

## How to use the speaker stabilizer (cushions)

When the surround speaker system installation is unstable due to the floor condition, apply the provided stabilizer (cushions) on four positions on the bottom of each speaker. (Except for CRS-N551)

## Dolby 3 Stereo

Dolby 3 Stereo is available for systems that do not set surround speakers. When in the Dolby 3 Stereo mode the surround information is redirected to the front left and right speakers. This mode is designed for use with Dolby Surround program sources, but can also improve sound field unity for programs that are not Dolby Surround edcoded. Dialog positioning and sound image definition, however, may not be as accurate when used with programs that are not Dolby Surround edcoded.



\* Optional in this mode

## Hanging on a wall

The surround speakers can be hung on a wall.

When hanging the surround speakers, select a rigid and hard place on the wall which can withstand the weight of the speakers.

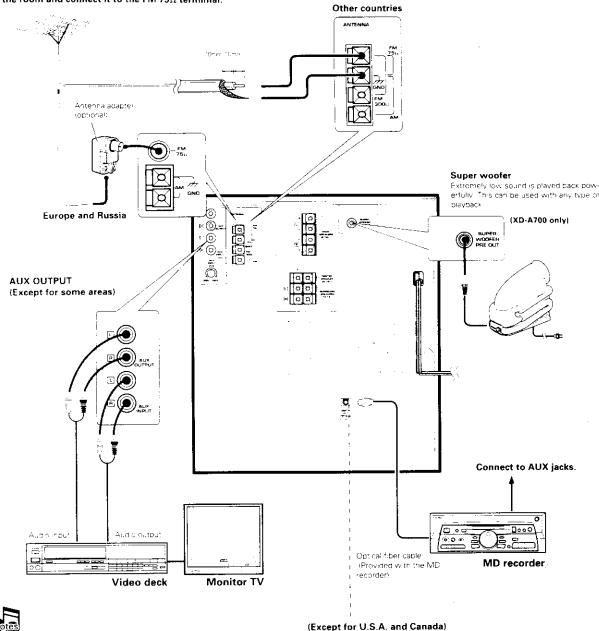
- Attach the provided mounting hardware onto the rear panel of each speaker using the provided screw. (Except for CRS-N551)
- Install a screw, which is commercially available, with sufficient strength on the wall. When screwing in, leave the head and upper stem of the screw projected by 7 to 9 mm from the wall surface.
- Mount each speaker by hooking up the hole of the speaker rear panel on the screw attached to the wall.
- 4. Check that the speakers are firmly mounted

# **Connection of Options** (Optional Parts)

Connect separately sold parts as shown in the figure.
Do not plug the power cord into the power outlet until all of the required connections have been made.

## FM outdoor antenna

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



- All of the optical-fiber cables sold in audio stores cannot always be
- used. If the cable you purchased cannot be connected to this unit, please consult your dealer or KENWOOD distributor.

  2. Insert the optical-fiber cable straight into the connector until it clicks.
- 3. Be sure to attach the protection cap when the connector is not

## DIGITAL OUT jack (OPTICAL)

# DISCITAL OF STATE OF

If necessary, remove the cap and plug the optical-fiber cable (optional).

# Main Unit

The external view is variable depending on the model and marketing destination area.

# POWER (For U.S.A. and Canada) B **② @ @ @** @ 900 MINI HEI COMPONENT SYSTEM سِيسة تَنِيقَةِ 🕦 🛊 VOLUME 3 STEREO PRO LOGIC Ø ⑳ 0 AUTO REVERSE T PROGRAM SEARCH SYSTEM AUTO REVERSE Ø Ø BEG B A PLAY **a** Ø (GG) ( < ₡∂ 0 OSC SKP OSC 3 D/30 (H41PF) **1** KENWOOD

ON/STANDBY (  / () POWER) key Power ON/OFF switching is executed	<b>-</b> 18	Used for setting the surround modes and sour	+ 51 d field effects
SOUND key Used for the equalizer mode setting, etc.	- 48	② DISPLAY  ② MULTI CONTROL jog dial	- <u>14</u> - 17
EX. BASS (Extra bass) key Switches the extra bass play on and off	- 19	Used for selection of various modes.  Ø SRS 3D key/Indicator	÷_50
DISPLAY key Switches the displayed information	- 48	Switches the SRS 3D play on and off	
input key	<b>-</b> [18]	<b>© ENTER key</b> Used for entering a selected mode in memory	or executing it
Press to select the input source. When TAPE or CD is playback starts automatically provided that a tape or disc hi		<b>© DUBBING key</b> Used for tape dubbing or CD recording onto ta	+ 31 + 43 + 46 pe
MIC 1, MIC 2 jacks (Except for some areas)	<u>→ _55</u> _	OCD PGM key     Used for programming CD tracks	- 32
For connection of a microphone (optional)  MIC VOL. knob (Except for some areas)	<b></b> 55	<b>@ VOLUME CONTROL knob</b> This is used for volume adjustment	<b>→</b> _18_
At the time of mic mixing , this knob controls the volum crophones	mes of the	Tuner operation keys	<b>-</b> 26 <b>-</b> 27
MODE/DEMO key - 4 - 19 -	47 - 50	TUNING keys Press to select a radio station	
Used for setting or selection of various modes. The Items which can be selected differ according to the si- time.	tatus at that	BAND key Press to switch the receiving band	
When power is STANDBY: Switches, the demonstration off	on or and	AUTO key Switches the tuning mode	
TIMER key - 56 + Used for time adjustment, timer setting, etc.	57 - 58	PHONES jack For connection of a headphone (optional)	- 18
<b>SET key</b> Used for setting of various modes or establishing a selection	<b>– 19</b> stron.		
assette deck unit —			
A deck cassette holder		⊕Cassette deck operation keys	<b>-</b> 22 <b>-</b> 23

**~** 23

- 23

\_\_21

## A deck cassette holder

Press the area marked **≜ PUSH OPEN** to load or eject a tape

## **DOLBY NR key**

Dolby noise reduction ON/OFF switching is executed

## REV. MODE key

The reverse mode of the deck (both sides, repeated, one side) is switched.

## B deck cassette holder

Press the area marked **PUSH OPEN** to load or eject a tape

Play (◄ ►) keys

Stop (€) key

Fast forward and rewind (◄◄ ►►) keys

A/B key

Press to select the deck to be operated

@REC/ARM key

Press to start recording. Pressing the key during recording stops it after leaving a non-recorded space (blank) of about 4 seconds

## D player unit -

## DISC SELECTOR keys

The disc for playback (or recording) is selected

- 21 DISC SKIP key The disc for playback (or recording) is selected. This is also used for

insertion of a CD to the inside of the disc trav-**-** 20

## Disc tray

Three discs can be stored

OPEN/CLOSE (♠) key

The disc tray is opened and closed.

@CD operation keys

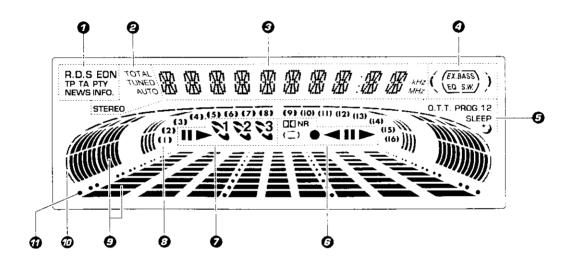
Play/pause (►/II) key

Stop (m) key Skip (I-d-4 ▶►) keys



# Display

(The displays given in this manual are approximations only. They may differ from what actually appears on the display.)



## **ORDS**-related indicators (For U.K., Europe and Russia)

## @Tuner and applied CD operation indicators

This section contains the indicators of the tuner operations and applied CD operations.

## **©** Character information display

Displays the input selection, frequency, volume level, etc.

## O Tone and sound field-related indicators

Timer-related indicators

## Cassette deck indicators

This section contains the cassette deck operation indicates indicated information includes the tape reverse mode and tape transport direction.

## OCD player indicators

This section displays the CD playback and pause mode information well as the disc number being played.

## Track number indicators

indicates the CD track number being played

## Spectrum analyzer display

## @Running indicator

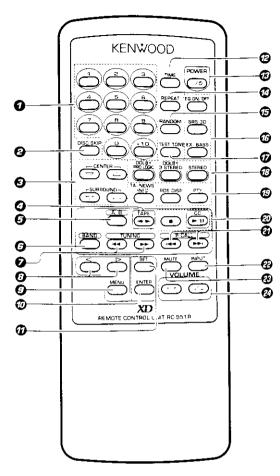
This indicator rotates according to the operation modes during operation of the CD player, cassette deck, etc. It also shows the appromate sound level during volume control.

## **@** Guideline

Blinks during the setting of an item using the jog dial.

# Remote control Unit

e keys on the remote control unit with the same names as on e main unit have the same function as the keys on the main unit.



Europe, U.K. and Russia: RC-951R Other countries: RC-951

Model: See left. Infrared ray system.

Used to switch the function of the <b>MULTI CONTROL</b> keys.  The function items that can be selected with the <b>MULTI CO</b> .	NTROL
keys are variable depending on the current operation status stems such as CD PGM, DUBBING, SOUND, DISPLAY, LISTEN MODE and MODE are selected using keys @	TIMER.
<b>ØENTER</b> key	- 19
<b>O</b> SET key	19_
<b>@TIME key</b> Press to switch the time information on the CD player unit	20_
ON/STANDBY ( / / DOWER) key Power ON/OFF switching is executed.	18_
@REPEAT key	- 34
Used for repeated playback of a CD.	1 257
RANDOM key For CD playback, switching is executed between random and normal playback.	p <sub>i</sub> ayback
@Tone and sound field-related keys	
EQ. ON/OFF key Press to switch the equalizer ON and OFF.	<del>-</del> <u>48</u>
SRS 3D key	<b>-</b> 50_
EX. BASS key	<b>-</b> _19_
<b>Ø</b> TEST TONE key	<b>-</b> 52
<b>©</b> Surround operation keys $-\frac{51}{5} - \frac{5}{5}$	2 - 53
@RDS-related keys (For U.K., Europe and Russia)	
TA/NEWS/INFO. key used for automatic reception of transmissions of a certain	+ 40 content
RDS DISP. key	<b>-</b> 37
The display contents are switched during reception of RI casts.	OS broad
PTY key This is used to specify the program type when searching for	a station.
@CD operation keys	
CD play/pause (►/II) key	
Stop (■) key	
②P.CALL (Preset Call)/skip (I→→ →→) keys	~~
Used to recal a preset radio station During CD playback, press to skip CD tracks	+ 26 - 21
	<b></b> 18
@INPUT key	10
MUTE key This is used to mute the sound temporarily.	
<b>愛</b> VOLUME keys	- 18

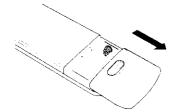
on the function of the MULTICONTROL keys

MENU key



## Loading batteries

@ Remove the cover.



@ Insert batteries.



 Insert two R6 (TAAT-size) patteries following the polarity indications?

## O Close the cover.

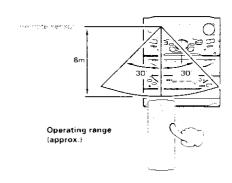


## Operation

Plug the power cord into the mains power outlet and press the on/standby (| / (|) POWER) key of the remote control unit to turn power ON. After the power has been turned ON, press the desired key.

To turn power off, press the on/standby (|/|) POWER) key again. The system enters the standby mode in which only the time display is lit.

 When pressing more than one remote control keys successively press the keys securely by leaving an interval of 1 second or more between keys.





- 1. The provided patteries are intended for use in operation checking, and their service life may be short
- 2. When the remote control able distance becomes short, replace both of the patteries with new ones
- 3 fig rect sunlight or the light of a high-ifrequency fluorescent lamp knyerter type, etc. it is incident to the remote sensor, mairtungt on high oncum is such a case, change the installation position to avoid maifunction.

## CHANNEL SPACE setting

(Except for the U.S.A., Canada, U.K., Europe, Russia and Australia)

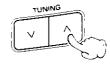
The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, prober reception of AM/FM IMW/FMI proadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

	Area	CHANNEL SPACE freq
:	U.S.A., Canada and South American countries	FM 100 kHz AM 10 kHz
2	Other countries	FM : 50 kHz AM : 9 k∺z

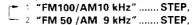
Turn power off.



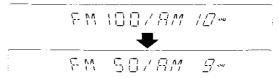
@Select the channel space.



Each press switches the space frequency alternately.



 The "AM" display is variable depending on the model (country or area), and "MW" may be displayed in some areas.



@Establish the selection.



## MULTI CONTROL jog dial

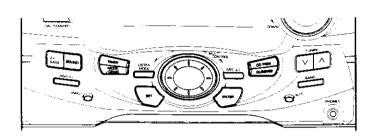
The MULTI CONTROL jog dial allows you to set (or enter) a variety of functions with an easy operation.

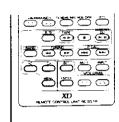
The mode for setting (using) MULTI CONTROL is initiated when any of the CD PGM, DUBBING, SOUND, DISPLAY, TIMER, LISTEN MODE and MODE/DEMO keys is pressed.

In the setting mode, select the operation mode with the MULTI CONTROL jog dial and press the SET and/or ENTER key(s) to set, establish, enter or execute the function.

(The ENTER key is always pressed at the end.)

With the remote control unit, pressing the MENU key makes it possible to select the same items as those available on the main unit using the MENU {upp/down<} keys.





CD PGM
DUBBING
SOUND
DISPLAY
TIMER
LISTEN MODE

- During the setting of an item with a tine guideline is blinking), other keys are deteated except for the basic control keys such as the **VOLUME**CONTROL and ON/STANDBY keys.
- Its centure the moute for setting lusting: MULT! CONTROL, read the description of each item in this manual

## For Russia

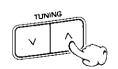
## Reception mode switching of FM broadcast

When you want to receive an FM proadcast in PILOT TONE mode, that and the setting as follows:

OTurn power off.



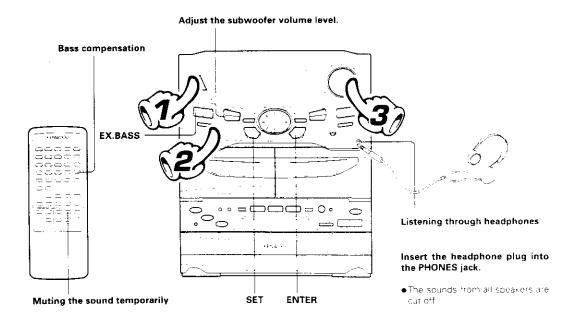
**②**Press the TUNING (△) key.



Each press switches the reception mode alternately.

- → 1 POLAR system
- 2 PILOT TONE system

# Basic use method



# 1. Switching the power ON (OFF)



The power can also be turned ON by pressing the play key of the CD player, the play key of the cassette deck or the BAND key of the tuner.

When the ON/STANDBY key is pressed while the power is ON, the power will be switched OFF.

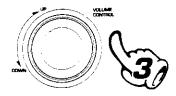
 The display part becomes dark when the powsisswitched OFF (DIMMER function)

# 2. Selecting the desired output



- T 1 TUNER (Radio) 26 2 CD — 20 3 TAPE — 22 4 AUX (External input) — 1
- When you select the AUX input, be also sure read the instruction manual of the component connected to the AUX input jacks (AUX iNPUT LEVEL adjustment + 47.)
- When CD or FAPE is selected, playback will start when a disc or a tape already has bee inserted into disc tray or deck B.

# 3. Volume adjustment



- Quick turning produces a larger change amour (AI VOLUME control function)
- The display shows a reference value.

## Muting the sound temporarily (Remote control unit only)

# Blinks Till III

## Remote control unit

- Press again to resume the original volume
- The sound muting is also canceled when the volume is controlled.

## Bass compensation (EX.BASS)



- · Each press switches EX BASS on and off alternately
- The EX.BASS is switched off automatically during recording

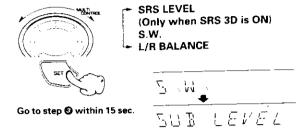
# Sub woofer level adjustment (Except for the XD-A700)

Adjust the sub woofer level according to the category of music and your liking.

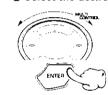
## O Press the MODE/DEMO key.



## @ Select "S.W." and press the SET key.



## **3** Select the desired level and press the ENTER key.



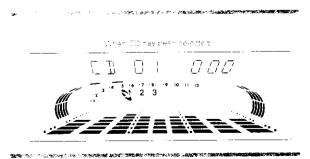
OFF LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 LEVEL 5



## STANDBY mode of ON/STANDBY ( | / 🖒 ) key

When the display shows the time or "--:-", a small amount of current is supplied to the unit to back up the internal memory. This status is referred to as the STANDBY mode, and the unit in the STANDBY mode can be turned ON from the remote control unit.

- Control State Control Contro





## **AUTO POWER SAVE function**

When the power is ON and neither recording nor playback is executed for 30 minutes or more, the power is switched off automatically by this function. This function can be made active or not active by the following operation.

• Press the TIMER key.

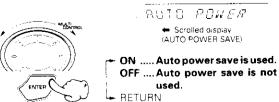


## @ Select "AUTO POWER SAVE" and press the SET key.



SLEEP TIME SET O.T.T. PROG. ON/OFF PROG. 1 PROG. 2 AUTO POWER SAVE

## Select "ON" or "OFF" and press the ENTER key.



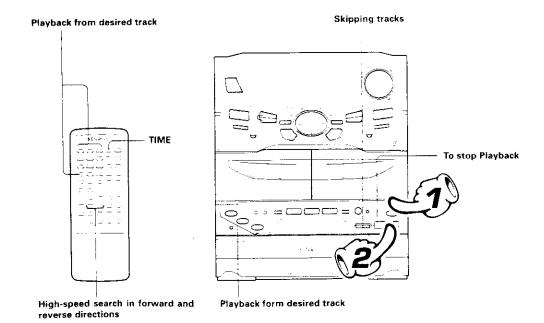
 This function is not available when the AUX input is selected. When the TUNER input is selected, it is available only when the volume is set to 0.

## kn/951 - 4900 - 4200

# Playback of CD



If a disc has already been loaded in the CD player and t power is OFF, simply pressing the CD play key turns pov automatically ON and starts playback.

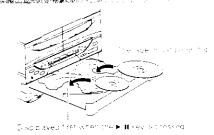


## 1. Load a disc.



- Open the tray.
- @ Place a disc.
- O Close the tray.

The tray opens when the key is pressed and closes when the key is pressed again.



# 2. Start playback.



After a few seconds, play starts from track No.1

# Time display on the CD player

Each press of the TIME key of the remote control unit switches the displayed time information.

 Only the time information related to the track being played can be displayed in the program, CD EDIT and random modes.

🔢 🖁 🔞 Elapsed time of track being played 2 - ₽∃∃ Remaining time of track being played 2345 Elapsed time of disc (TOTAL lights up)

4 - 35%5 Remaining time of disc (TOTAL lights up)

## kipping tracks

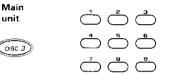


- •The tracks in the direction the dial is rotated are skipped, and the selected track will be played from the beginning.
- When the jog dial is rotated a little in the direction of counterclockwise once during playback, the track being played will be played from the beginning
- •The CD tracks can also be skipped using the I◄◄ or ►►I key of the remote control unit and main unit

## layback from desired track

# Select the disc.

DISC 2



Select the desired track No.

Remote control unit

DISC 1



Press the numeric keys as shown below....

To enter track No. 23 : +10 +10 3

To select track No. 40: +10 +10 +10 0

The state of the s

## High-speed search in forward and reverse directions

## Backward search



Forward search

Remote control

Playback starts from the position where the key is released.

## To pause playback



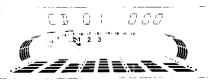
Each press pauses and plays the CD alternately.

## To stop playback



Do not touch the played side of disc. Rotate the tray with the **DISC SKIP** key to insert the third disc he tray of the disc to be played should come to the left position when he unit is seen from the front.

The selected disc is no cated



 ghts when a disc is inserted at the time of playback

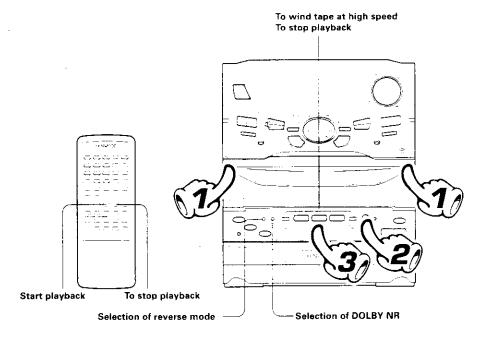
The recorded track No. are shown

THE RESIDENCE OF A STATE OF THE SECOND OF TH

# Playback of tape



If you load a tape in a cassette deck (deck B) while the pow is off, simply pressing the tape play key turns power aut matically ON and starts playback with deck B.



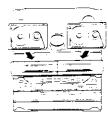
# 1. Load a cassette tape.



@insert a tape and close the door.







# 2. Select the deck to be used for playback.







# 3. Start playback.

Press the play key of the desired direc-

• When playing back a recording using the equalizer or SRS 3D effect, switch the equalizer or SF 3D effect.

## To wind tape at high speed

To fast wind in direction =

To fast wind in direction ⇒



Press the ■ key to stop fast winding

Selection of reverse mode.



Each press switches the modes as follows.

1 "="... Both sides are played back (recorded), and then the tape stops.
2 "="... Both sides are played back endlessly.
(The tape stops after recording onto both sides.)
3 "="... Only one side is played back (recorded),

and then the tape stops.

Normal (TYPE I), high (TYPE II), or metal (TYPE IV) tape selection is set automatically

- Remove tabe slack before, bading
- -Close the door securely.

Displayed when the deck is paged with a tape.

## To stop playback



 Do not take out the cassette tape until the tape transport has stopped completely.

## Selection of DOLBY NR (Noise Reduction)

The Dolby NR system minimizes the hiss noise heard when playing tape. When playing a tape prerecorded with DOLBY NR ON, be sure to set the DOLBY NR ON for playback.

DOLBY NR

TOPE BOM

Each press switches the modes as follows.

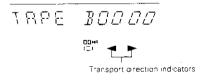
 Select the Dolby NR mode according to the recording condition of the tape.

Dorby noise reduction manufactured under license, from Dolby Laboratories, Licensing Corporation.

"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Eidensing Corporation.

## Transport direction indicators

The indicators ( $\blacktriangleleft$ ,  $\blacktriangleright$ ) indicate the current direction in which the tape advances when playback or recording is started automatically by the easy operation function, etc. This direction is the direction stored in memory when the tape was last stopped. (To switch the tape transport direction, press the play key corresponding to the desired direction then press the stop ( $\blacksquare$ ) key.)



- Only the tape transport direction of deck B is shown when the selected input is other than TAPE
- To see the tape transport direction of deck A, press the A/B key to switch to deck A.



Please play back tapes recorded with equalizer etc. without applying any effect.

を受けた。これでは、10mmには、10mmに対象を表現している。

KD-961 FABDIO ADDIO

## Relay play

When tapes are set in the decks A and B and the reverse mode is set to "—" (play of both sides), play of the second deck will be started automatically after play of the first deck has been completed. Tape play will be repeated alternately.

• Relay play is not possible in the reverse modes "Lab" and " and " and "



## A tip for use of the tape counter

The tape counter is set to "0000" when a cassette tape is loaded. By writing down the counter reading in case you want to interrupt recording (playback) in the middle of the tape, the memo will be helpful as a reference for locating the same position when continuing the recording (playback) the next time. The tape counter figure decrements during recording or playback of the back side (while the ◄ tape transport indicator is lit).

To set the tape counter to "0000", open the cassette holder once. Then the counter will be reset.

TAPE 100000

⊞UNR :\_}

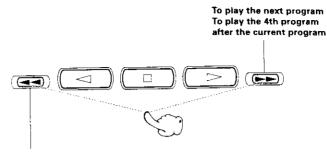
: Press once.

: Press 4 times.

The DPSS (Direct Program Search System) is capable of detecting non-recorded spaces of more than 4 seconds as "blanks between programs" and, based on this information, can return to the beginning of the music program being played or the beginning of a desired program by skipping up to 16 other programs.

## During play in direction ►





To return to the beginning

of the current program

: Press once.

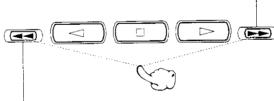
To play the 4th program

before the current program : Press 5 times.

## During play in direction ◀

To return to the beginning of the current program
To play the 4th program before the current program: Press 5 times.

and a superior of the superior of the superior of previous property



To play the next program

: Press once.

To play the 4th program after the current program

: Press 4 times.



the DPSS may not function normally with the following kinds of tabe

- Tapes containing several no-sound intervals of more than 4 seconds, such as conversation and talk tapes.
- Tabes containing planissimo sections, such as classical music tabe.
- Tabes in which large hoise is recorded in planks between programs.
- Tabes containing blanks between programs that are shorter than 4 seconds.
- Tables recorded at low level

# Receiving broadcast station

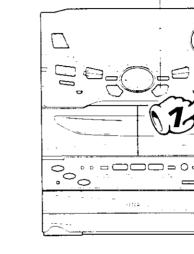
It is also possible to receive them by one-touch operations by storing up to 40 stations in the preset memory.

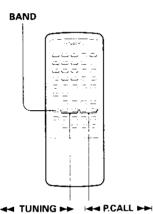


One-by-one presetting

When the BAND key is pressed, this unit will be switche on automatically.

Collective presetting of stations





## 1. Select the broadcast band.



Each press changes the band.

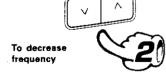
1 FM 2 **AM** 2 MW (AM)

•The broadcast bands are variable depending on the mode, (country or area).

## To increase frequency

## 2. Select a station.

When no stations have been memorized



TUNING

: Each press receives the next station. Auto tuning

Manual tuning: Press the key repeatedly or hold it depressed until a station i

received.

Select a station.



When stations have been memorized (preset call)

Remote control unit



Every time the key is pressed, the preset stations are switched over as follows:

Press ▶► for the order of 1→2→3 ... 38→39→40→1... Press  $\rightarrow 4$  for the order of  $40 \rightarrow 39 \rightarrow 38 \dots 3 \rightarrow 2 \rightarrow 1 \rightarrow 40 \dots$ 



## Collective presetting of stations (auto preset)

Keep the AUTO key depressed (about 2 seconds).



 Some stations may not be able to be preset if their reception conditions are weak.

## Ine-by-one presetting (manual preset)

• Press the ENTER key during reception.

Presetting is cancelled when no operation is executed for 10 seconds or more.



Select one of the preset numbers from 1 to 40.



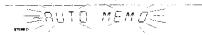
Presetting is cancelled when no operation is executed for 5 seconds or more.





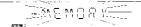
Press the ENTER key again.

For Europe and U.K. lauring FM reception

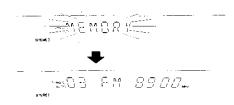


"MEMORY" is displayed during AM (MW) reception

Other countries (FM/AM)



- A maximum of 40 stations is preset automatically by giving the first prior ty to the stations in the current receiving band.
- When there are many stations and the intended station has not been preset, please also use "One-by-one presetting (manual preset)".
- The stations which have been preset manually are overwritten.



- Repeat steps 000 to preset other stations
- If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.

Example whom an PNP station is received.

.ce em *8900.* 

in the property of the section of the con-

The "TUNED" indication remark when kish at the larger wed

TADB FM 8922.

Clarify a vind autosuring ........ Find with Nidolesk

Select the tuning mode.



Each press alternates the mode.

- 1 "AUTO" lit (Auto tuning)

- 2 "AUTO" not lit (Manual tuning)

Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)

Normally, use the AUTO (Auto tuning) mode.



# Recording (Deck B only)



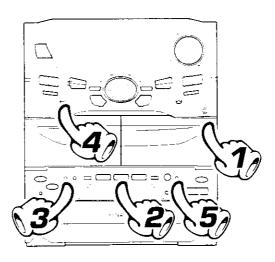
Note that this cassette deck cannot record onto Metal tapes.



When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded.

+ 48
When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected, cancel it by pressing the STEREO key of the remote controunit.







## 1. Load a tape in deck B.

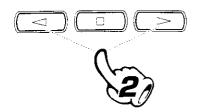
- Open the door of deck B.
- ②Insert a tape.
- OClose the door.

- ■D Herent at on between normal TYPE I > in gn ("YPE II) tabe is set automated.
- Remove tabe slack pefore bading

Except for some areas:

 When the microphone is not used, set the M VOL, control knob fully counters activise the minimum position.

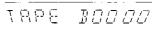
## 2. Select the tape transport direction.



## To reverse the transport direction

- Press the play key corresponding to the desired direction.
- **②**Stop playback (by pressing the □
- When recording is started, the tape is transported in the direction selected in this step.
- Wind the tape to the position where recording is to be started.

Check the tape transport direction indicator.





Transport direction

REV. MODE DOLBY NR



# 3. Set the recording condition.

- O Select the reverse mode.
- Select the DOLBY NR mode.

## Selection of the reverse mode



Each press switches the modes as follows.

\* ... " .... Both sides are played back (recorded), and then the tape stops.

2 " ... Both sides are played back endlessly.
(The tape stops after recording onto both sides.)

"

" .. Only one side is played back (recorded), and then the tape stops.

## To pause recording



Pressing to 44 key realises recording after leaving a nor necorded space of any in 4 sections:

In the 44 July pressed again in less than 4 seconds after it has been present they may be result as them that instend

## Selection of DOLBY NR (Noise Reduction)

The Dolby NR system minimizes the hiss noise heard when playing tape. When playing a tape prerecorded with Dolby NR ON, be sure to set the DOLBY NR ON for playback.

Lit when "DOLBY NR" is ON.





Each press switches the modes as follows.

1 "DD NR" ON ................. DOLBY NR is used.
2 "DD NR" OFF ............... DOLBY NR is not used.

## 4. Select the source to be recorded.

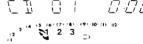


TUNER (Radio)
2 CD
3 TAPE

= 4 AUX (External input)

AUX NPUTLEVEL adjustment → 47 ×

Fire input source component to be recorded should be displayed.



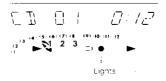
 When the CD input is selected and if a disc has been set in the CD player, its prayback starts immediately.

## Select an input source other than "TAPE".

# **5.** Start recording.

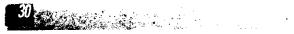


- Play (or tune) the input source to be recorded.
- @Start recording.



 Recording stops automatically when the tape side(s) to be recorded have been fully recorded

**-** 29



## Points in CD recording

When recording CD tracks onto a tape, if you leave the cassette deck in record-pause mode beforehand, the cassette deck recording can be started at the same time as the CD starts to be played. (Synchro recording function)



- OPut the CD player in pause mode.
- Select the track to be recorded with the skip (⊢◄◄, ▶►)
   keys.
  - (The CD player pauses at the beginning of the selected track.)
- Put the cassette deck in Record-pause mode. (Press the REC/ARM key twice.)
- Start playing the CD.
- (Synchro recording starts)

Recording stops when the stop key of the CD player is pressed.



# Copying tape (Tape dubbing)

The contents of the tape in deck A can be copied onto the tape in deck B.



Select the "TAPE" input.



Press the stop key.



**②** Select "⇒" (double-side recording) or "⇒" (one-side recording).



@Press the DUBBING key.



Select "TAPE DUBBING" and press the SET key.



1. Select. 2. Press SET.



SST

GUse the same tape transport direc-

(1) Select the transport direction of deck A.

1. Select.

2. Press SET.





(2) Select the transport direction of deck B.

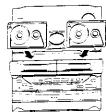


Start dubbing.



## Load tapes in the decks.

Playing tabe



Recording tape

CD RECORD
CD EDIT
CD PGM RECORD

TAPE DUBBING

TAPE BURRI

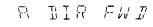
← Scrolled display (TAPE DUBBING)

When recording is started, the tape will be transported in the direction selected in this step.

Check the tape transport direction indicators.

Ξ,

A DIR FWD



B DIR FWD B DIR RVS

∽ RETURN

- By selecting "RETURN" and pressing the ENTER key, the operation returns to the previous step so the current step can be restarted.
- Dubbing ends automatically when the side(s) to be dubbed has been completed

## To stop dubbing

## REC/ARM



- The deck B will stop after creating a non-recorded portion of about 4 sec, and then the deck A will stop.
- Dubbing can also be stopped by pressing the stop (■) key. Note that the non-recorded space is not created in this case.



# Playback of CD

# Listening in the desired sequence (program playback)

Any titles on the discs in the tray can be listened to in the desired sequence. (Max. 32 titles)

## Select the "CD" input.

Check that the CD player is in the stop mode.



If it is in play mode



Press the CD PGM key.





Press the CD PGM key gut no to program the transible cold diaved



Enter track Nos. in the order you want to play them.



O Select the disc.

1. Select.



2. Press SET.



Select the track.

1. Select.

2. Press SET.





To select other tracks, repeat steps O and @ for each of the additional tracks.



@Enter it.





- Even if you program a gisc or track which goes not exit in the tray. If deleted automatically in playback
- •If you select "RETURN" and press the ENTER key, you can return the previous step and re-perform the operation
- Up to 32 tracks can be programmed. When "FULL" is idisplayed, more tracks can be programmed.

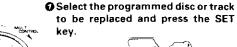


# 4 Check the programmed tracks (and replace, add or delete tracks as required).

## To check:



## To replace a track in the program:





② Select a disc or track to replace the disc or track selected above (step ☑- ② and ②).

## To add a track to the program:

Select the display as shown on the right and press the SET key.





② Perform the same operations as in step ☑-① and ②.

## To delete a track from the program:

Select the programmed disc or track to be cleared and press the SET key.





Select "CLEAR" and press the SET key.

## To end the above operation:



# 5 Start playback.





## To quit the program mode



Press twice. (at an interval of 2 sec. or more)





Remote control unit

If you are using the remote control unit, press
the key once again white "CD PGM" is dismarket.

- POI DE TOE
- •The programmed tracks are displayed in sequence

P 12 313 -7 04

The placking item can be replaced

P-- II- 7--

The added track number is added to the end of the existing program

P 12 03 3 04

P 12 LERR

To perform an operation in step 2 after ending it, press the CD PGM key once.



- When the I←I or the ►►I key is pressed during play, the program will rump to the preceding or the following track respectively
- •When the ride key is pressed once during playback, the play position returns to the beginning of the current track being played.
- When the TIME key of the remote control unit is pressed during playpack, the time display appears but it soon returns to the original display



◆<sup>16</sup> the key is pressed during playback, normal playback in order of tracks



# Repeated playback

Desired titles or discs can be played back repeatedly.

## Select the "CD" input.

# To repeat a disc



O Confirm that the "PGM....." indicator is not lit.



If the "PGM....." indicator is lit, press the CD PGM key twice to turn it off. (at an interval of 2 sec. or more)



@Press to select "DISC REPEAT".



Press the key repeatedly to switch the display.





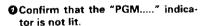
Select the disc.



## To stop repeated playback

Press the REPEAT key 3 times to select "REPEAT OFF".

# To repeat all discs



If the "PGM....." indicator is lit, press the CD PGM key twice to turn it off. (at an interval of 2 sec. or more)



Press the key repeatedly to switch the display.



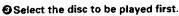
Press to select "ALL REPEAT".





REPEAT OFF
REPEAT
REPEAT
REPEAT

Scrolled display (ALL REPEAT)





To stop repeated playback

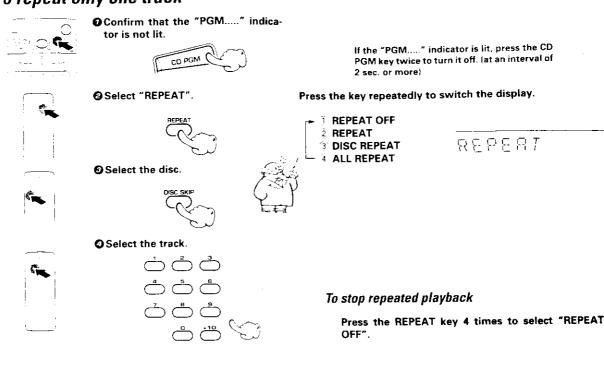
Press the REPEAT key twice to select "REPEAT OFF".





## Select the "CD" input.

# o repeat only one track



# To repeat only the programmed tracks

Perform the procedure in "Listening in the desired sequence (program playback)" till step 

to program the desired CD tracks. → 32

Select "PGM REPEAT".

All of the programmed tracks will be played repeatedly.

Press the key repeatedly to switch the display.

PGM REPEAT
REPEAT OFF

PEM REPERT

Start playback.



To stop repeated playback

Press the REPEAT key twice to select "REPEAT OFF".

XD 951, 4900, 4700 (En

# Listening to an unexpected title sequence (random playback)

As the titles each time are selected randomly, the music can be enjoyed without getting tired of it.

## Select the "CD" input.



Confirm that the "PGM ....." indicator is not lit.





If the "PGM....." indicator is lit, press the CD PGM key twice to turn it off. (at an interval of 2 sec. or more)



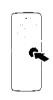
## Select the RANDOM mode.

For "ONE DISC RANDOM" płayback, select the disc in advance.





## To select another track in the middle of playing one





 Pressing the ◄◄ key once returns to the beginning of the track being played.

## To repeat random playback

## Select "RANDOM REPEAT".





Press the key repeatedly to switch the display.

+ 🗓 REPEAT OFF

- ② RANDOM REPEAT



## Press the key repeatedly to switch the display.

- → 1 ONE DISC RANDOM ...... Random play of one disc
  - 2 ALL RANDOM ......Random play of all discs
  - 3 RANDOM OFF (Normal playback)



- Playback stops after each fittle has been played once.
- When the TIME key of the remote control unit is pressed during playback, the time display appears but it soon returns to the original display.

## To cancel random playback

## Select "RANDOM OFF".





DS is a system which transmits useful information (digcal data) for FM broadcasts together with the broadcast ignal. Tuners and receivers designed for RDS reception an extract the information from the broadcast signal for se with various functions such as automatic display of the station name.

## This unit is equipped with the following functions utilizing RDS data:

## <sup>3</sup>TY (Program Type Identification) Search:

**-** \_38

ne rune (automatically searches for a sist on which is currently broad astino a specified program (you igains).

### 'S (Program Service Name) Display: (See below.)

Then an PDS proaptast is receiven, the station name is automatically splayed.

#### EON (Enhanced Other Network):



Their the internation to be received is set in advance and any RDS that the other expressions are starts propagation of such externation, the exception automatically is upone any toned to that station.

The **"RDS"** indicator lights up when at RDS preadcast is ghall is race yed.

R O S EON
TP PTY
NEWSINFO STEREC

 Some functions may not be provided or be given different names depending on countries or areas

## Note before the use of RDS

To receive RDS stations, you have to preset RDS stations using the auto preset function. The auto preset function presets the RDS stations in priority. Flashing "NO DATA" will be displayed when no RDS station has been preset with this function.

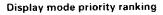
## Set the receiving band to FM and preset RDS stations with the auto preset function.



## o switch the display contents

Pressing the RDS DISP, key changes the display contents.





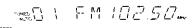
When an RDS broadcast is received :

PS (Program Service Name) Display:
 When an RDS broadcast is received, the station name is automatically displayed.
 If no PS data was sent, "NO PS" is displayed.



2 Frequency Display:

The frequency of the current station is displayed.



STERE



# Searching for a desired program type (PTY search)

By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the specified type.

## Set the reception band to FM. Preset RDS stations with the auto preset function.

**~**[27]



## Select the PTY search mode.







## Select the desired program type.

Use program type table on the right for your convenience.

(A) To select using the P.CALL (I◄◄ ►►I) keys

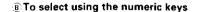


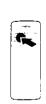


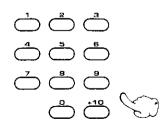
Select while "PTY" is lit.

The P.CALL (I◄◀ ►►I) keys can be used to select one of the 29 program types by displaying them in sequence.

Press and hold the key and release it when the desired program type appears.



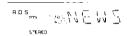




The numeric keys can be used to specify the desired program type directly by selecting a number between 01 and 28.

Example

To select 23: Press +10 +10 3



When an RDS broadcast is received, the program type is shown or the display. If no PTY data is available, or if the station is not ar RDS station, "NONE" is displayed.

Program	tune	table
rrogram	type	ranie

A ◀◀ ►► keys	Б	Program Type Name	Display
	01	Frankin.	117.5
	02	Rook Masir	# 33 F M
	703	MOS Valu	1.2
	<u> </u>	, untilias- ca	_ G-T ::
	35	Serious Classica	0.459-09
	06	Other Music	OTHER M
	97	'.ews	1,F.A.5
	08	Julient Arfairs	
-4-4	09 i	ritermation	`.=>
DOWN	00 [	Sport	SEC61
<b>A</b>	1.0	Education	EDUCATE
T		Gramia	JPANA
	2	Cuiture	CULTURF
	.3	Science	SCIENCE
	14	Named	CHEAS
1	7.5	Weather	NF41+459
	6	Finance	FINANCE
▼	177	Or laren's programmes	CHILDREN
P	18	Social atfairs	SOCIAL A
<b>▶</b>	.э	Reigion	RELIGION
	20	Enone "	PHONE IN
	21	'ave	19AVSL
	22	. eisure	LEISURE
	23	Jazz music	JAZZ
	24	Conutry music	COUNTRY
	25	National music	NAT ON M
	26	O dies music	GLDIES
	27	Folk music	FOLKM
	28	Documentar.	DOCUMENT

\*MOR Music Middle of the Road Musici

# 3 Start the search.





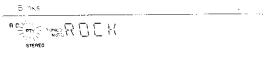
Press the key again during search to cancel it.

## To change to a different program type :

Repeat steps 0, 2, 0.

#### When searching for a Rock Music broadcast

## Display while the tuner is searching.



Program type name display

#### When a station is received.



Station name display.

#### • No sound is heard while "PTY" is blinking

- if a program of the desired type cannot be found. "NO PROG" is displayed, then after several seconds the display returns to the original display.
- If a program of the desired type is found, that program is received and the
  program type name display changes temporarily to the frequency display, and then to the station name display.

X5-901 A800 A100 (E

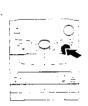
# To be able to listen to the desired information at any time (EON)

By using the EON function, which manages the information of other stations, listening to desired information like traffi information or news etc. can be reserved even when it is not being transmitted at the present. When listening to a station with the "EON" display lit and another station of the same network starts to broadcast an information program for which reservation has been made, then that station will be selected automatically. When the desired information program ends return is made to the original program.

## Set the reception band to FM.







Receive a broadcast.

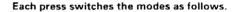
Keep the AUTO key pressed (2 sec or longer).



The EON data presently being broadcasted are taken in automatically. This is not required when auto presetting has already been executed.

•Noen sil40 stations have a ready deep preset by the provider of One by one presetting in the LC1, it wild in word in LC4 are lead presenting must be used.

# 2 Select the desired information.



-	1	TA	Traffic Announcement
	2	NEWS	News
	3	INFO	Information
_	4	Dieplay not lit	EON cancelled

ghts with a station broadcasting matticianns in percent progr	JMA.
RD S EON : NE. T   T   T   T   T   T   T   T   T   T	17

Please execute automatic presetting when TA, NEWS, and INFO, cannot be selected.

Receive	an	RDS	station.	

Select a station where "RDS" and "EON" are lit.





"RDS" and "EON" are +		
A D S EDIN AGS	90.00	<u> </u>

- When "EON" does not light aithough an RDS station is received, that station is not transmitting EON data. Please select a different station.
- If you want TA crograms, select the stations with which the "TP' indicator lights.

CD or tape playback may also be started. As long as the unit is ON, the unit is always ready for the reception.

# Waiting for information while a RDS station without EON function is tuned

If the EON indicator does not light with the RDS station in steps and  $\square$ , the tuner will wait for only the desired information broadcast from the tuned RDS station provided that the desired information has been selected in the previous step.

- •When one of the stations of the network of the station received in 
  starts proadcasting the program contents selected in 
  in that station will be received automatically. At this time, table playback will stop and 
  CD playback will pause However, external equipment (AuX) will 
  remain as it is.
- When the power is OFF and during recording undiscond aubbings, the EON function does not operate.
- When the transmission of the selected program contents ends in case
  of automatic reception with the EON function, return will be made to
  the status directly before operation of the EON function. When tabe or
  CD prayback has been interrupted, it will be continued from the point
  of interruption.

## TP (Traffic Program) indicator

The lighting of the TP indicator indicates that the currently tuned station or a station in the same network as it broadcasts traffic announcement programs. If the TP indicator already lights with the current station, you can listen to the traffic announcement program through the station without making reservation with the EON function.

# Selection of the convenient CD recording type

With this unit, the following edit recording is possible according to the purpose.



Note that this cassette deck cannot record onto Metal

If you want to select the track to be recorded while playing a CD

Recording only desired titles (CD ONE TRACK RECORD)

\_ 43

Perform this operation when a track you want to record starts during CD playback. This starts recording of the track from the beginning.

If you want to record a CD in order of track numbers

Recording of an entire CD (CD RECORD)

- 44

Perform the CD RECORD operation while the CD player is in stop mode to start recording.

If you want to avoid any tune being interrupted at the end of tape

Giving preference to the tape length over the title sequence (CD EDIT) - 45

Edit recording of CD is possible by the simple operation of entering the recording length of the tape.

If you want to record only the desired tracks

Recording the programmed titles (CD PGM RECORD)

- 46

Program the desired tracks from up to 3 CD discs in the desired order and record the programmed playback onto tape.

# Recording only desired titles (CD ONE TRACK RECORD)

it the time of CD playback, any desired title can be seected immediately for recording.



When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded.  $\rightarrow 48$ 

When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected, cancel it by pressing the STEREO key of the remote control unit.

Recording preparations are required. - 28 (Steps 12 to 12)

7 Playback of CD.



Select a mode other than random play.



Press the DUBBING key.





Select "CD ONE TRACK RECORD".





Start recording.



Press the ENTER key.



When recording has been completed, a non-recorded portion of seconds will be produced and the cassette deck part will stop. The CD player will enter temporary stop condition.

o record a different track, repeat the steps 2 to 2.



th case the key is pressed with track No 3

CD ONE TRACK RECORD
CD RECORD
CD EDIT
CD PGM RECORD

CI ONE 199

← Scrolled display (CD ONE TRACK RECORD)

 Playback restarts from the beginning of the track being played and recording starts at the same time

## To end recording in the middle





# Recording of an entire CD (CD RECORD)

Perform the following operation while the CD player is in stop mode to start recording at the same time as the start of playback.



When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded.

When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selectecancel it by pressing the STEREO key of the remote control unit

Recording preparations are required. - (Steps ato a) (For the reverse mode, select " " " (two-way recording).)

Press the DUBBING key.





Select "CD RECORD".



O Select.

@ Press SET.



SET CO

3 Select the disc.





4 Start recording.



Press the ENTER Key.



- CD RECORD CD EDIT

CD PGM RECORD
TAPE DUBBING

(Only when the selected input is TAPE and tape are present in both decks A and B)

CD RECORD

S DZIE

- Recording of CD starts at the same time as playback.
- At the end of tape, the music is not recorded on the leader tape portir.
   If you do not want any music to be interrupted in the middle, refer "Recording" and start recording of side 5 with the interrupted trac

## To end recording in the middle





Both the cassette deck and CD player stop.

# Giving preference to the tape length over the title sequence CD EDIT)

When the tape recording time is specified, recording is executed with changing the title sequence so that no title vill be interrupted when the tape direction is changed at he end of one side.



When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be recorded. -48

When Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected, cancel it by pressing the STEREO key of the remote control unit.

Recording preparations are required. - 28 (Steps 1 to 1) (For the reverse mode, select " >" (two-way recording).)

7 Press the DUBBING key.





Select "CD EDIT" and press the SET key.







Select a disc and press the SET key.





- CD ONE TRACK RECORD (Only during CD playback)
  - CD RECORD
  - CD EDIT
- CD PGM RECORD
- TAPE DUBBING
   (Only when the selected input is TAPE and tapes are present in both decks A and B)

• Even if the disc has already been selected iselect the disc again

3 Set the tape length (recording time) and press the ENTER key.









**3** Start edit recording.

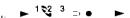


Press the ENTER Key.



Press the CD PGM key twice to cancel CD EDIT.

EDIT 8 10/



- The tabe and CD stop automatically when recording has completed.
- ◆Press the stop (■) key to stop recording in the middle
- If you commit an error in the time entry, restart the procedure from step

XD-951 / A900 / A700 /E

# Recording the programmed titles (CD PGM RECORD)

Program the desired tracks from up to 3 CD discs in the desired order and record the programmed playback onto tape.



When the equalizer or SRS 3D is applied to the sound, the sound with the applied effect can be reWhen Dolby Pro Logic, Dolby 3 Stereo or DSP mode is selected cancel it by pressing the STEREO key of the remote control unit.

Recording preparations are required. - 28 (Steps 11 to 13)

Press the DUBBING key.





Select "CD PGM RECORD".



O Select.

@ Press SET.





Program the desired tracks.

O Select tracks in the order you want to play them.

(Perform step 2 on page 32.)

@Check, replace, add or delete the programmed tracks as required.

(Perform step 2 on page 33.)

- CD ONE TRACK RECORD (Only during CD playback)
  - CD RECORD
  - **CD EDIT**
- **CD PGM RECORD**
- TAPE DUBBING

(Only when the selected input is TAPE and tapes are present in both decks A and B)

CAL PEM REC

← Scrolled display: CD PGM RECORD.

Start recording.



Press the ENTER Key.



## To end recording in the middle





This unit permits selection of equalizer and sound field playback. Please select the equalizer as desired according to the nusic genre. Select the sound field mode according to the desired atmosphere.

# Adjustment of balance and input level

3alance...... Adjusts the balance of left and right volume.

nput level......Adjusts the volume of external equipment (video deck etc.) connected to the AUX terminal. Please adjust as required when the volume from external equipment is too high etc.

## alance adjustment :

Press the MODE/DEMO key.





Select "L/R BALANCE".

O Select.

@ Press SET.







→ SRS LEVEL

S.W. (Except for the XD-A700)

L/R BALANCE

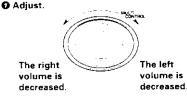
← Scrolled trisplay (J/R BALANCE

LIR BALANC

 When SRS 3D is ON, "SRS LEVEL" (strength of the 3D effect) also is displayed.

## 3 Adjust.





@ Press the ENTER key.

The loved is



## nput level adjustment :

Rear panel





The level to

Adjusts the volume of external equipment (video deck etc.) connected to the AUX terminal. Please adjust as required when the volume from external equipment is too high etc.

YD 951 - A900J A700 (E

# Listening with the desired sound (equalizer function)

In addition to the 4 kinds of equalizer patterns which have been preset at the factory, 3 equalizer patterns created manually by the user can be stored in memory and recalled any time.

A SOURCE DIRECT mode is provided for pure audio reproduction by defeating the EX.BASS and SRS 3D circuits.

# Selecting an equalizer pattern

It is possible to select the desired equalizer pattern according to the category of the played music. The graphic equalize effect can be recorded together with the sound.

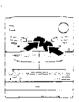


OPlay desired music.

Switch on the equalizer mode.



Select the desired equalizer pattern.





OPress the ENTER key.



## Equalizer patterns which can be recalled

~	ROCK	Rock music	
	POP	Pop music	
	CLASSIC	Classic music	RALEX
	JAZZ		· · · · · · · · · · · · · · · · · · ·
	MANUAL EQ1		
	MANUAL EQ2		
	MANUAL EQ3		

EQ. OFF ..... Cancelled.

SOURCE DIRECT ...... For pure audio reproduction by defeating the EX BASS and SRS 3D circuits.

- On the remote control unit, each press of the EQ. ON/OFF seswitches the on/off of equalizer patterns.
- To cancel the equalizer effect "select "EQ.OFF" or press the EQ. ON OFF key of the remote control unit.

## Switching the spectrum analyzer display mode

Press the DISPLAY key.





Select the DISPLAY mode.





DISPLAY AUTO
 DISPLAY 1
 DISPLAY 2
 (Normal display)
 DISPLAY 3

OPress the ENTER key.



#### Example of reference mode display







 When DISPLAY AUTO is selected, the display mode is switched in sequence from 1 to 3 every time a track changes during CD playback

## Preation and memorizing of an equalizer pattern

'ou can edit desired patterns manually and store them in memory.



OSwitch on the equalizer mode.



Select the number to be used for storage.

(MANUAL EQ1 ~ EQ3)



2. Press SET.



1. Select.



ROCK POP CLASSIC JAZZ MANUAL EQ1 MANUAL EQ2

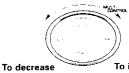
MANUAL EQ3
EQ. OFF
SOURCE DIRECT



MANUAL EU/

Go to step 9 within 15 sec.

- Adjust the equalizer pattern.
  - 1. Adjust the level.



To decrease the level To increase the level

2. Press the SET key.

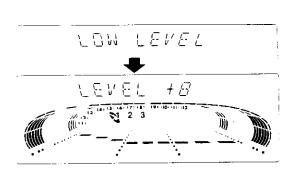


The LOW, MID and HIGH frequency bands can be adjusted independently by repeating step ⊕ for each of them.









• Each frequency band can be adjusted in the range between -8 and +8.





# **Enjoying Sound Field Effects**

# Experiencing SRS 3D (Sound Retrieval System)

The Sound Retrieval System is an epochal system which produces a three-dimensional sound space by applying the mo suitable processing to the sound signal on the basis of the human listening mechanism. This permits real depth and soul location, considered as difficult to realize with conventional 2-channel stereo (general stereo). A sufficient effect can i obtained for any source (CD, tape, broadcasts, etc.). Recording with applied SRS 3D also is possible.



O Set SRS 3D to ON.



585 33 74

Each press of the key switches SRS 3D on and off alternately.

@ Press the MODE/DEMO key.



#### Select "SRS LEVEL".

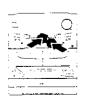
1. Select.

2. Press SET.



Adjust the effect strength (level).



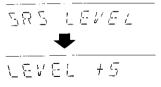


1. Adjust. The level The level increases. decreases.

2. Press ENTER.



- SRS LEVEL S.W. (Except for the XD-A700) L/R BALANCE
  - SRS 3D ON/OFF switching is not possible during recording



Leve display

- Adjustment is possible in the range from -8 to +8
- Please set as desired according to the titles being blayed backletc

## To cancel SRS 3D







# *JOLBY PRO LOGIC surround adjustment*

When video (LD) software carrying [1] <u>Cours surround</u> mark s played, this mode provides the Dolby Surround effect, similar to movie theaters.

Manufactured under license from Dolby Laboratories Licensing Cororation: "DOLBY", the double-D symbol and "PRO LOGIC" are rademarks of Dolby Laboratories Licensing Corporation.

## Delay time

This refers to the difference in timing of the sound output from the surround speakers with respect to that output from the front speakers. The delay time setting consists of adjusting this difference in time.

# Set the DOLBY PRO LOGIC mode.

Setting using the remote control unit:

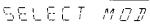




If you are operating the main unit, press the LISTEN MODE key then select by turning the MULTI CONTROL jog dial in place of pressing the "<>>" key of the remote control unit.

- ·Be sure to adjust from your listening position.
- When the number of displayed characters exceeds 10, the characters are first scrolled then stop
- To abort setting in the middle, press the **MENU** key again.

← Scrolled a splay (SSUECT MODE



#### @Select the LISTEN MODE.

OPress the MENU key.







(Go to next step within 15 sec.)

CD PGM (Displayed only when the CD input is selected)
 DUBBING (Displayed only when a tape is in deck B)
 SOUND
 DISPLAY

TIMER

LIMEN

LISTEN MODE (Scrolls then stops.)

MODE

## Select the DOLBY PRO LOGIC mode.





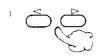
7

► DOLBY PRO LOGIC DOLBY 3 STEREO STEREO ► DSP

Scrolled display (DOLBY PRO LOGIC)

DOLBY PRO

# (Go to next step within 15 sec.) Select the center speaker mode.





(Go to next step within 15 sec.)

NORMAL ......When the center speaker is compact-sized speaker.

WIDEBAND ........ When the center speaker is medium- or large-sized speaker.

PHANTOM......When the center speaker is not used.
RETURN ......Returns to step ②.

 If you cannot teil whether your center speaker is compact or mediumsize, try two modes and select according to your liking.

#### Select the delay time.





ENTER

15 mS ...... When the listening position is closer to the front speakers

20 mS ...... When the listening position is located between the front and surround speakers

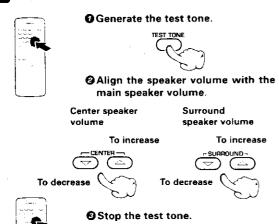
30 mS ...... When the listening position is closer to the surround speakers

RETURN ... Returns to step ②.

- To abort setting in the middle, press the **LISTEN MODE** key again.
- •When the setting completes, all of the set contents are displayed by

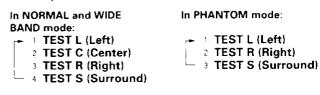


Adjust the volume balance.



- The test tone which is heard like noise moves between speakers at interval of 1.5 sec.
- The speaker volumes are to be adjusted while ristening to the test tor

The display and test tone output speaker are switched automatically.



1 E 5 T L

- Be sure to adjust from your instendig position.
- The volume level can be adjusted in steps of 1 oB
- The volume levels can be adjusted in the range from (10 dB to +10);
- The center level value is memorized as a confinion setting is th DOL: 3 STEREO

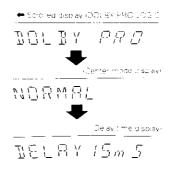
# DOLBY PRO LOGIC surround playback

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

1 Activate the DOLBY PRO LOGIC mode.







After several seconds, return is made to the original display.

- 2 Play a video software program.
- 3 Adjust the volume.

VOLUME To increase

To decrease





To cancel DOLBY PRO LOGIC surround play

# **JOLBY 3 STEREO adjustment**

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

# Activate the DOLBY 3 STEREO mode.

Perform the same operations as step 2 and 3 of the procedure for "Setting using the remote control unit" of "DOLBY PRO LOGIC surround adjustment".

Select the DOLBY 3 STEREO mode.







(Go to next step within 15 sec.)

Select the center speaker mode.







**3** Adjust the volume balance.



Generate the test tone.



Adjust the center speaker volume with the main speaker volume.



Stop the test tone.



If you are operating the main unit, press the LISTEN MODE key then select by turning the MULTI CONTROL jog dial in place of pressing the "<>>" key of the remote control unit.



► DOLBY PRO LOGIC DOLBY 3 STEREO STEREO

- DSP

NORMAL ......When the center speaker is compact-sized speaker.

WIDEBAND ........ When the center speaker is medium- or large-sized speaker.

🕶 RETURN ......Returns to step 🚱.

 if you cannot tell whether your center speaker is compact or mediumsized, try two modes and select according to your liking.

Be sure to adjust from your listening position.

The speaker volumes are to be adjusted while listening to the test tone.

 The test tone which is heard like noise moves between speakers at an interval of 1.5 sec

TEST L

The display and test tone output speaker are switched automatically.

TEST L (Left)
TEST C (Center)
TEST R (Right)

, ,-

• The center level can be adjusted in steps of 1 dB

• The volume levels can be adjusted in the range from -10 dB to +10 dB

 The center level value is memorized as a common setting with DOLBY PRO LOGIC surround

# OLBY 3 STEREO play

efore playing a video (or LD) software program carrying the <code>DDDocumer summoundom</code> mark, be sure to complete the "DOLBY 3 TEREO adjustment".

Activate the DOLBY 3 STEREO mode.

Press the DOLBY 3 STEREO key of the remote control unit.

🗿 Play a video software program.

3 Adjust the volume.

← Scrolled display (Center mode display)

← Scrolled display (Center mode display)

NORMAL



# DSP (Digital Signal Processor) playback

The DSP mode uses the digital processing capability of the DSP to create the reverberation components (factors of sour reflections in a variety of spaces), that determine the feeling of presence, without altering the quality of the music source

## DSP mode

The DSP mode creates the ambiance of a hall, disco or live house from any kind of program source. This mode is particularly effective when listening to a stereo program source such as a CD, TV and FM broadcasting. Although the DSP mode can create a simulated stereo surround effect from a monaural source, the proper effect may not be obtained depending on the played software.

## Set the DSP mode

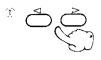


@Press the MENU key.



@ Select the LISTEN MODE.

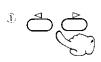






(Go to next step within 15 sec.)





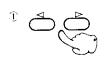
Select the DSP.



(Go to next step within 15 sec.)

@Select any of the DSP.







If you are operating the main unit, press the LISTEN MODE  $k\epsilon$  then select by turning the MULTI CONTROL jog dial in place of presing the "45%" key of the remote control unit.



- To cancel the listening mode, press the MENU key again
- When the number of displayed characters exceeds 10, the unstactable first scrolled then stop.
- CD PGM (Displayed only when the CD input is selected)
  DUBBING (Displayed only when a tape is in deck B)

SOUND DISPLAY

TIMER

LISTEN MODE (Scrolls then stops.)

- MODE

DOLBY PRO LOGIC
DOLBY 3 STEREO
STEREO
DSP

Selected mode is displayed

 $\neg \uparrow \neg \uparrow \uparrow \uparrow$ 

DISCO

LIVE

RETURN ..... Returns to 3 of 1.

Selected mode is displayed

 $\Box \Box \Box T T T$ 

## To cancel DSP play





# injoying Karaoke (Except for some areas)

You can sing along to the recorded acompaniment as a simplified karaoke operation by connectng a microphone.

# **7** Connect a microphone.



Turn the MIC VOL. control fully counterclockwise.





Plug the microphone into one of the MIC jacks.

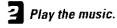


Adjust the volume balance between the music input and microphone input.



To decrease microphone volume

To increase microphone volume



**3** Sing along with the accompaniment.

After the above steps, you can record your karaoke singng onto a tape. However, note that the karaoke singing using a tape cannot be recorded onto a tape.



• Set the MIC VOL, control knob to the fully counterclockwise	positio
when the microphone is not used	

• The microphone audio cannot be reproduced while the DPSS function of the cassette deck is in use.

This unit incorporates a clock function. Be sure to adjust the correct time before using the timer function. The time is displayed only while the power is off.

# Activate the clock adjustment mode.





## Select "TIME SET".





@Press the SET key.



Enter the figure of hour.





the figure @Press the SET key.



Enter the figure of minute.





To decrease the figure

@Press the ENTER key.



SLEEP TIME SET O.T.T. PROG. ON/OFF PROG. 1 PROG. 2

**AUTO POWER SAVE** 

SET CLOCK

8*M /2.77* 

• The time display starts to blink

Example: Adjustment to 8:45

BM ( 800

AM12 -- AM1 -- AM2...PM1 -- PM2... -- RETURN -- AM12...

- The time of the day is represented in 12-hour AM/PM method.
- Press the SET key. The nour is entered and the minute display star? to blink.

BM 89455

## 00 -- 01 -- 02...59 -- RETURN -- 00 -- 01...

- if you made a mistake, select "RETURN" and press the ENTER key an restart the entry.
- •To adjust correct time, press the ENTER key at the same moment a a time announcement.
- The "----" display appears after a power faiture or when the power cord has been unplugged from the AC outlet and plugged again. In suc a case, adjust the clock again.

XO-951749007A700 (En)

eep timer (SLEEP)

The power is turned OFF automatically after the specified period has elapsed.

perate easy To use Timer (O.T.T.)

Playback of the selected input source starts at the specified time, and the power is switched off after one hour. This timer operates only once directly after setting.

mer playback, timer recording (PROG.1, PROG.2)

With each of the two timer programs, a selected source can be played (or radio broadcast can be recorded) in the previously set time period.

timer playback (PROG.1, PROG.2)

When timer playback starts, the volume increases gradually.

**UTO POWER SAVE** 

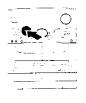
When the power is ON and neither recording nor playback is executed for 30 minutes or more, the power is switched off automatically by this function.

## \diust the clock before setting the timer.



## leep timer (SLEEP)

et the number of minutes after which the power is to be turned OFF.



OPress the TIMER key.



Select "SLEEP" and press the SET key.





Set the time and press the ENTER kev.







10 ↔ 20 ↔ 30...80 ↔ 90 ↔ RETURN ↔ SLEEP OFF ↔ 10 ↔ 20...

- The displayed time changes in 10-minute steps. The maximum time that can be set is 90 minutes.
- The power is turned OFF automatically after the set time has elapsed
- The sleep timer does not operate until O.T.T. operation or program timer operation has ended

#### To cancel

Turn the unit off or select "SLEEP OFF" and press the ENTER key.

## perate easy To use Timer (Operate easy To use Timer : 0.T.T.)

imer playback can be set with a simple operation of just setting the time. With this function, the last source selected before irning power off can be played by the timer. The power turned ON by the timer is switched off automatically in an hour after ne timer playback starts.



- Select the desired source and adjust the volume.
- Press the TIMER key.

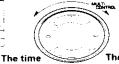


@Select "O.T.T." and press the SET





Set the ON time and press the EN-TER key.





is returned.

The time is advanced. The program timer does not operate until O.T.T. operation

At the time of tape playback by timer operation, the B deck has priority.



The ON time can be set in steps of 5 minutes

### To cancel

If you are in the middle of time setting, press the TIMER

If the O.T.T. operation has already been started, turn the

# Timer programming

Two 24-hour timer systems (PROG.1, PROG.2) (which can be used every day) are available. In each of PROG 1 and PROG 2, the timer data including the operating period and played contents can be set and selected to be activated or not as required.

- Timer reservation is possible for the two types PROG.1 and PROG. 2 at the same time
- Please make reservations with an interval of at least one minute, so that the operation times of PROG 1 and PROG, 2 do not overlap.
- if you made a mistake during timer setting. Select "RETURN" in the time setting or selection item and press th SET or ENTER key. (This makes it possible to the previous step so th current step can be restarted in

## - 56

## Adjust the clock before setting the timer.

# Make preparations for the play (recording).

To listen to radio

The station should be preset prior to the above. - 27

●To listen to CD

Insert a disc. (Program playback is not possible.)



Select the disc to be played (1, 2 or 3).

To listen to tape

Set a tape into deck B.



The B deck has priority at the time of timer playback.

 Playing the auxiliary input source

Make timer setting of the component connected to the AUX jacks.

For recording

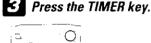
Make preparations for recording. - 28

## Adjust the listening volume.





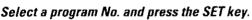
• When the timer function is used for timer recording of an input source the speakers do not output the audio even after the unit is turned on by the timer





is advanced.











SLEEP TIME SET O.T.T. PROG. ON/OFF

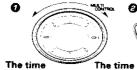
PROG.1 ..... Program 1 PROG.2 ..... Program 2 **AUTO POWER SAVE** 

PROG V

- The selected program No lights.
- •If a program No, under which a timer program has already been reserved, it is replaced by the new timer program

# Enter the ON time.





is returned.

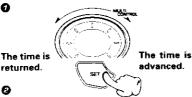
 After entering the figure of "hour" with the procedure in 1 and 2. enter the figure of "minute" using the same procedure



## Enter the OFF time.



O



 After entering the figure of "hour" with the procedure in 
 and 
 and enter the figure of "minute" using the same procedure

BMB RD

Make the desired reservation.

## or timer playback or Al timer playback

## 3 Select the mode.

Select "TIMER PLAY" or "AI PLAY".



TIMER PLAY TIMER REC

RETURN

Timer play

Timer play with gradually increasing volume

THNER

Enter it.

TIMER PLAY

## 3 Select the input source.



TUNER (Radio)



CD TAPE

AUX (External input)

RETURN

Enter it.

•If you selected TUNER, press the SET key.

## 9 Select the broadcast station (only when TUNER is selected above). Select the preset station No.

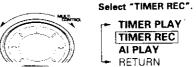


Enter it.

VS FM 8900m

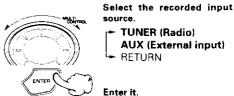
## For timer recording

#### O Select the mode.



Enter it.

## Select the input source.



- If you selected TUNER, press the SET key.
- Select the broadcast station (only when TUNER is selected above).

Select the preset station No.



Enter it.

# Press the TIMER key.





## Select "PROG. ON/OFF" and press the SET key.







SLEEP TIME SET O.T.T. PROG. ON/OFF PROG.1 PROG.2 **AUTO POWER SAVE** 

Scrolled display (PROG. ON/OFF)



xD 9517490074700

# Select the program number to be used and press the ENTER key.







PROG.1 ..... Program 1 operates. PROG.2 ..... Program 2 operates. PROG.1 / 2 .... Programs 1 and 2 operate. PROG. OFF .... Timer off.

 The selected contents of the timer programming will be displayed. sequence

.ON TIME → OFF TIME → Mode → Input source → Preset chann-

# Set the POWER switch to OFF (STANDBY) position.







The reservation contents cannot be creared. The contents are dieared only when they are changed.

← Scrolled display (PROC\_ON/C) C:

Scrolled display (PROG. ON/OFF)

PROG \ DN/D

2205 - *01/1/7* 

## When timer operation is not required



OPress the TIMER key.

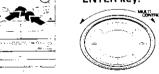


Select "PROG. ON/OFF" and press the SET key.





Select "PROG. OFF" and press the ENTER key.





+ SLEEP TIME SET O.T.T. PROG. ON/OFF

PROG. 1

PROG. 2

**AUTO POWER SAVE** 

PROG.1 PROG.2 PROG.1 / 2 PROG. OFF

The reservation contents are held in memory

## To set the same timer program again



@Press the TIMER key.



@Select "PROG. ON/OFF" and press the SET key.





Select the program to be set and press the ENTER key.







SLEEP TIME SET O.T.T.

PROG. ON/OFF PROG. 1 PROG. 2

**AUTO POWER SAVE** 

PROG.1 ..... Program 1 operates. PROG.2 ..... Program 2 operates. PROG.1 / 2 .... Programs 1 and 2 operate. PROG. OFF .... No program operates.

Also prepare the disc or tape and adjust the listening volume.

## Maintenance

## Cleaning the head section

# Cotton swap Capster Capster Pinco to et

Tane of these

# Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them, perform the following

- 1. Open the cassette holder
- 2 Using a cotton swab dipped in alcohol clean the head (recording / playback / erase), capstan and pinch roller catefully.

#### Demagnetizing the head

When the recording / prayback head is magnetized, the sound quality will deteriorate in such a case, demagnetize the head using a commercially available demagnet zer thead eraser!



There are prodisely aligned parts around the heads, including the tape guides When bleaning, pay special attention so as not to apply shock to them.

## Maintenance of the set

When the front pane or case becomes ditty, wipe with a soft, dry croth. Do not use thinner, benzine alcoholieto, for these agents may cause discoloration.

## In regardto contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

# Reference

Shund Fetrleya System manufactured under idence from SRS Labs, High ISOU1.0 RETRIEVAL SYSTEM\* and the SRS Symbol **SRS ( )** are trademants of SRS Labs 1 to

Put mase of this product obes not convey the right to sell recordings mode to this ecode) PETRIEVAL SYSTEM.

# Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

- 1. Turn the power ON but do not load a disc.
- 2. Press the ► II key.
- 3. Wait a few seconds, and ensure that the display is as shown below.



4. Wait for a few seconds then turn power off.

## Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside. This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the poeration after the condensation has dride up.

Be specially cautious against condensatin in a following circumsatance.

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

# Memory backup function Stored contents which are

Stored contents which are ! Clock cleared immediately when power plug is unplugged from power outlet

Clock display

#### Stored contents which are cleared in at least a day after power plug is unplugged from power outlet

#### Amplifier

POWER status (ON or OFF) Input selection Volume control value Balance level Equalizer's manual memory created by the user SRS 3D level

#### Tuner unit

Receiving band Frequency Preset stations Program timer setting contents

#### Cassette deck unit

Transport direction DOLBY NR Reverse mode



What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

## Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

 Please note that resetting the microcomputer clears the contents stored in and returns and to condition when it left the factory Unplug the power cord from the power outlet then, while holding the eject ENTER key depressed, plug the power cord again.

• install the TV or the system at an increased

distance between them.





#### Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	Batteries are exhausted The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between There is no tabe or CD set in the component to be played. An attempt is made to hav the cassette deck which is recording something The MULTI CONTROL setting mode is acti-	<ul> <li>Set a table of CD in the component to deliberated.</li> </ul>

## Receiver, speakers

Symptom	Cause	Remedy
Sound is not produced.	•The speaker cords are disconnected	Connect properly referring to   System con- nection:
	The MUTE switch of remote control unit is switched ON	Switch MUTE OFF
	•The headphone bug is inserted into the jack	Unblug the neadphone blud
AUX (external input) sound is not produced.	•The AUX 'NPUT LEVEL control on the rear pane is set to M!N.	Adjust to an optimum leve       4
Sub-woofer sound is not produced.	●The LEVEL control is set to OFF.	Adjust to an optimum, eve. → _1.
Sound is not output in the TUNER mode.	Even when DEMO is ON, stations with weak radio waves are muted and their sound cannot be heard.	
The character display blinks and sound is not produced.	The speaker cords are short-oriouited.	•Turn the power OFF, remove the short- circuit and turn the power ON again
Sound is not produced from the left or right speakers.	•The speaker cords are disconnected.	Connect property referring to "System connect on"
Sound is not produced from the surround speakers.	No surround mode is activated.	• Set a surround mode.
The clock display shows ":".	There was a power farure. The power cord was unplugged from the cutlet.	Adjust the present time again  Adjust the present time again   5
Timer operation is not possible.	• The present time has not been adjusted or there was a power failure.	Adjust the present time referring to "Clock - 5 adjustment"  Adjustment "  Adjustment"
	•The timer ON time and OFF time have not peen set	•Set the timer ON time and OFF time - 3
	•The timer execution was not set up.	●Execute the timer program
Radio stations cannot be received.	The antennas have not been connected     A proper broadcasting band has not been	Connect antennas     Select a pand. → 2
	The frequency of the station to be received is not tuned.	• Tune to the frequency of the desired station. • 2
Noise interferes.	F ◆Car ignition noise.	• Instail the outdoor antenna in an apart posi-
	•Influence of an electric appliance.	tion from the road.  • Switch the suspected electric appliance OFF

A TV set is installed near the system.

station has been preset but it cannot received by pressing the P.CALL key.	The frequency of the prese; station is not tunable. The preset memory has been cleared because the power cord has been unplugged for allong period.		- <u>27</u> - <u>27</u>
emonstration starts suddenly.	The power plug was unplugged from the outlet while the power switch was ON, or there was a power failure.	●This is not maifunction. Press the MODE/ DEMO key to cancel the demontration.	<b>→</b> 4_

## neral

Symptom	Cause	Remedy
o operation occurs when an operation by is pressed.	●The MULTI CONTROL setting mode is activated	■Cancel the MULTICONTROL setting mode.      ■ ①

## ssette deck

Symptom	Cause	Remedy			
und cannot be produced by pressing e play key.	The head is dirty. The tape is wound too tight due to irregular winding. A conrecorded tape is played.	Clean the head referring to "Maintenance" — 61     Try another tabe     Play a recorded tabe.			
o operation occurs even when an opera- on key is pressed.	The cassette holder is not closed completely. The operation key is pressed immediately after diosing the cassette holder. The operation key is pressed in less than 4 seconds after turning the power ON. A table is not inserted in the unit. The table is wound tooltight due to inequiar winding. The table is fully wound to one of the reels.	Close the holder completely  Press operations keys in more than a few seconds after closing the holder Press operation keys after waiting for more than 4 seconds.  Insert a tape.  Try another tape  Change the tape transport direction or reverse the tape insert or or entation.			
e DPSS malfunctions.	<ul> <li>The tabe used is not suitable for DPSS, for example the spaces between tunes may be too short</li> </ul>	<ul> <li>Refer to "Searching for the desired music → 25, program (DPSS)"</li> </ul>			
dubbing, the tape stops at different oments in decks A and B.	<ul> <li>This is due to the difference in the tabe ength or character stics of the mechanisms of two cassette decks.</li> </ul>	Sma'l time difference does not mean a maifunction			
ne cassette holders cannot be opened by essing the ≜ PUSH OPEN area.	The key is pressed during recording or play- pack. The microcomputer is maifunctioning due to external noise.				
ound is harsh or high frequencies are not produced.	•The head is dirty •The tabe is stretched or shrunk.	• Clean the head referring to "Maintenance".			
ound is distorted.	Ine tape being played was recorded with distorted sound     A tape recorded using the equalizer of SRS 3D-eye effect is played using the equalizer effect adain.	Try another tape.  Switch off the equalizer and SRS 3D effect.			
ne AUX sound is distorted.	● The AUX INPUT LEVEL is set too high	◆Decrease the AUX INPUT LEVEL 47			
oise is noticeable.	The tape head is magnetized  External noise is induced  A tape recorded with Dolby NR ON is played with Dolby NR OFF	Demagnetize the nead referring to "Maintenance".      Install the system at a distance from other electric appliances and TV.      Set the Dolby NR to on -23			
ound vibrates.	◆The capstans or binch rollers are dirty.     ◆The table is wound irregularly				



Volume of the recorded track changed.	The tape is fully wound to one of the reeis  The tape is fully wound to one of the reeis	Select the source to be recorded with the input selector key.  Change the rape transport direction of deck.  Bid riveverse the tabe insertion orientation.  Fray turn the MIC VOL. control hop to the.	<b>→</b> _22
Recording cannot be started by pressing the record key.	has been broken  • The cassette holder is not prosed completely		<b>-</b> _2

## CD player

Symptom	Cause	Remedy		
A CD is placed in the player but it canno be played.	The disc is blaced upside down  The disc position is displaced.  The disc is extremely diffy.  The disc is scratched.  Dew is condensed on the optics lens.	Place the disc property, with the label side in the disc property. Clean the disc property. Clean the disc referring to 1D sc handing in precautions! Thy another disc. Befor to 1Caution on condensation in and interrove the condensation by Hyapothation.  Phase a rusc in the CD player. Phase a rusc in the CD player. Clean the play rev. Clean the pisc referring to 1D sc handing increasions! Try another disc.		
Sound is not produced.	<ul> <li>The disclines not been blaced</li> <li>The player is not but to the play mode</li> <li>The discline extremely dirty</li> <li>The disclines extremely dirty</li> </ul>			
Sound skips.	The disc is dirty  The disc is scratched The player is subject to vibration	Observations in a page not a when the precautions in a precautions in a page not a when the vibrations.		

## For the U.S.A.

#### **CAUTION:**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION

- i 2967-3, ISH:KAWA-CHO, HACHIOJI-SH:,
- I TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT CON-FORMS TO DHHS REGULATIONS NO. 21 CFR 1040-10, CHAPTER SUBCHAPTER J.

Location: Back Panel

## 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 unlet the inodifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if unauthorized change or modification is made.

#### NOTE:

This equipment has been tested and found to comply with the limits for a Class Bid gital device, pursuant to Part 15 of the ECC Rules. The limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cau harmful interference to radio communications, if it is not installed and used in accordance with the instructions, mowever, there is guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or televisine reception, which can be determined by turning the equipment off and on, the user is encouraged to trivito correct the interference by common 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.

## WARNING NOTICE:

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

#### Note to CATV system installer:

This reminder is provided to call the CATV system installer's tention to Article 820-40 of the NEC that provides guidelines tiproper grounding and, in particular ispecifies that the cap ground shall be connected to the grounding system of the builting, as close to the point of cable entry as practical

D: 425 mm (16-3/4")

## ain unit

.mplifier section ] ted output power during STEREO operation
J.S.A. and Canada)
00 watts per channel minimum RMS, both ch

30 watts per channel minimum RMS, both channels driven, at  $\Omega$  form 14 Hz to 14 kHz with no more than 0.9 % total harmonic stortion. (FTC)

Ω form 14 Hz to 14 kHz with no more than 0.9 % total harmonic istortion. (FTC)
Europe, U.K. and Russia)
{DIN) 1 kHz, 0.7 % T.H.D., 6 Ω
Two channels driven 100 W + 100 V
Other countories)
1 kHz, 1.0 % T.H.D., 6 Ω
Two channels driven115 W + 115 V
ective output power during STEREO operation
Except for U.S.A. and Canada)
FRONT (1 kHz, 10 % T.H.D., 6 \(\Omega\)
∋ctive output power during SURROUND operation
Except for U.S.A. and Canada)
FRONT (1 kHz, 10 % T.H.D., 6 \(\Omega\)
One channel driven 100 W + 100 N
SUB WOOFER (60 Hz, 10 % T.H.D., 12 $\Omega$ // 12 $\Omega$ )
One channel driven 100 W + 100 N
CENTER (1 kHz, 10 % T.H.D., 6 \(\Omega\)
One channel driven 100 l
SURROUND (1 kHz, 10 % T.H.D., 12 $\Omega$ // 12 $\Omega$ )
One channel driven
:nal to noise ratio
AUX
ut sensitivity / impedance
AUX 270 mV / 47 k
MIC 1, 2 (Except for some arears) 1.6 mV / 22 k
tput level / impedance
AUX (Except for U.S.A. and Canada) 1.2 V / 1 k
uner section ]
tuner section
uning frequency range 87.5 MHz ~ 108 MHz
For Russia)
V (AM) Tuner section
uning frequency range
Europe, U.K. and Russia) 531 kHz ~ 1,602 kHz
Other countories)
9 kHz step 531 kHz ~ 1,602 kHz
500111 4 04011

U.S.A. and Canada) ...... 530 kHz ~ 1,700 kHz

uning frequency range ...... 153 kHz ~ 279 kHz

tuner section (For the United Kingdom and Russia)

	70-33 7 K300 A7 30 (E-1)
[ Cassette deck section ]	
Track	4-track, 2-channel stereo
Recording system	AC bias system
•	(Frequency: 105 kHz)
Heads	
A deck Playback head	
B deck Playback / recording head	
Erasing head	
Motors	
Fast winding time	Approx. 115 seconds
	(C-60 tape)
[ CD player section ]	
Laser	Semiconductor laser
Wow & Flutter Le	ess than unmeasurable Limit
(Except for U.S.A. and Canada)	
Digital output	· 15 dBm ~ · 21 dBm
Digital cosper	(Wave length 660 nm)
[ General ]	
Power consumption	200 W
Dimensions	W: 280 mm (11")
Differences	H: 332 mm (13-1/16")
	D: 350 mm (13-3/4")
Weight (net)	11.8kg (26.0 lb)
Weight (het)	
Fronts speakers (LS-N851)	
	Page sellow tune
Enclosure	bass-reliex type
Speaker configuration Sub woofer	160 mm cono tuno
Woofer	
Tweeter	
Super-tweeter	E () (Sub weater 12 ()
Impedance	125 M Jour Wooter 12 M
Peak input level	130 W (Sub-wooter 70 W)
Maximum input level	100 VV (500 WOOTER 50 VV)
Dimensions	H: 330 mm (13-1/6")
	m: 330 mm 113 1

## Surround speaker system (CRS-N851)

	•
[ Surround speaker ]	
Enclosure	Bass-reflex type
	80 mm, cone type
Impedance	12 Ω
Maximum input level	50 W
Dimensions	W: 215 mm (8-7/16")
	H: 100 mm (3-15/16")
	D: 110 mm (4-5/16")
Weight (net)	0.7 kg (1.5 lb) (1 piece)
[ Center speaker ]	
Enclosure	Bass-reflex type
Speaker configuration	100 mm, cone type
Impedance	6 Ω
Maximum input level	100 W
Dimensions	W: 260 mm (10-1/4")
	H: 135 mm (5-5/16")
	D: 180 mm (7-1/16")
Maight (not)	1.9 kg (4.2 lh) (1 piece)

## Main unit

[ Amplifier section ] Rated output power during STEREO operation (U.S.A. and Canada)	
70 watts per channel minimum RMS, both channels driven, a 6 $\Omega$ form 40 Hz to 14 kHz with no more than 0.9 % total harmonic distortion.	
(Other countories)	
1 kHz, 1.0 % T.H.D., 6 Ω	
Two channels driven85 W + 85	W
Effective output power during STEREO operation (Except for U.S.A. and Canada)	
FRONT (1 kHz, 10 % T.H.D., 6 Ω )	w
Effective output power during SURROUND operation (Except for U.S.A. and Canada)	
FRONT (1 kHz, 10 % T.H.D., 6 Ω )	
One channel driven70 W + 70	W
CENTER (1 kHz, 10 % T.H.D., 6 Ω )	
One channel driven	٧
SURROUND (1 kHz, 10 % T.H.D., 12 Ω // 12 Ω)	
One channel driven30 W + 30	٧
Signal to noise ratio AUX	dE
Input sensitivity / impedance	
AUX 240 mV / 47 l	k٤
Output level / impedance	
AUX (Except for U.S.A. and Canada)	k٤
SUPER WOOFER PREOUT 1.8 V / 600	(
[ Tuner section ] FM tuner section	
Tuning frequency range	н.
(For Russia)	ш.
(POT HUSSIA)	п.
MW (AM) Tuner section	
Tuning frequency range	
(Europe, U.K. and Russia) 531 kHz ~ 1,602 k	Ha
(Other countories)	
9 kHz step 531 kHz ~ 1,602 ki	Hz
10 kHz step 530 kHz ~ 1,610 kl	
(U.S.A. and Canada) 530 kHz ~ 1,700 kl	
	-
LW tuner section (For the United Kingdom and Russia)	

Tuning frequency range ...... 153 kHz ~ 279 kHz

[ Cassette deck section ]	
Track	4-track 2-channel ste
Recording system	
	(Frequency: 105 I
Heads	
A deck Playback head	
B deck Playback / recording hea-	d
Erasing head	
Motors	
Fast winding time	Approx. 115 seco
	(C-60 ta
[ CD player section ]	
Laser	
Wow & Flutter	Less than unmeasurable L
(Except for U.S.A. and Canada)	
Digital output	
	(Wave length 660
[ General ]	
Power consumption	
Dimensions	
	H: 332 mm (13-1/
	D: 350 mm (13-3
Weight (net)	11.7kg (25.
Fronts speakers (LS-N451) (F	or U.S.A. and Canada)
Enclosure	
Speaker configuration	bass-renex i
Woofer	160 mm .come t
Tweeter	50 mm cone t
Super-tweeter	
Impedance	
Maximum input level	
Dimensions	
	H: 330 mm (*
	D: 284 mm (11-3/1
Weight (net)	4.0 kg (8.8 lb) (1 pie
Surround speaker system (C	RS-N551)
(For U.S.A. and Canada)	
[ Surround speaker ]	
Enclosure	Acoustic air suspenens
Speaker configuration	
Impedance	1
Maximum input level	
Dimensions	
	H: 128 mm (5-1/1
	D: 120 mm (4-3
Weight (net)	0.7 kg (1.5 lb) (1 pie
-	•
[ Center speaker ]	
Enclosure	Acoustic air suspenens
Speaker configuration	100 mm, cone t
Impedance	
Maximum input level	
Dimensions	W: 268 mm (10-9/1
	H: 128 mm (5-1/1
	D: 120 mm (4-3/
Weight (not)	1.0 kg /2.2 lb) /1 gic

Weight (net) ...... 1.0 kg (2.2 lb) {1 pie





## Fronts speakers (LS-N551)

## For Australia, Europe and Ruusia)

nclosure	Bass-reflex type
peaker configuration	
Woofer	180 mm, cone type
Tweeter	65 mm, cone type
Super-tweeter	25 mm, dome type
npedance	6 Ω
laximum input level	100 W
imensions	W: 220 mm (8-11/16")
	H: 330 mm (13")
	D: 315 mm (12-3/8")
/eight (net)	4.1 kg (9.0 lb) (1 piece)

## Jurround speaker system (CRS-N851)

## For Australia, Europe and Ruusia)

Curround coooker 1

Surround speaker J	
nclosure	Bass-reflex type
peaker configuration	80 mm, cone type
npedance	12 Ω
laximum input level	50 W
	W: 215 mm (8-7/16")
	H: 100 mm (3-15/16")
	D: 110 mm (4-5/16")
/eight (net)	0.7 kg (1.5 lb) (1 piece)
Center speaker	
selecure	Bass-reflex type
beaker configuration	100 mm, cone type
spedance	6Ω
	100 W
mensions	
	H: 135 mm (5-5/16")
	D: 180 mm (7-1/16")

This instruction manual is used to describe multiple models listed below. Model availability and features (functions) may differ depending c the country and sales area.

	SUPER WOOFER PRE OUT	S.W. LEVEL	AUX OUT	DIGITAL OUT	→ 55 MIC 1,2 / VOL.	SURROUND SPEAKERS (supplied)	+ 31 + 38 + 40 R.D.S. EON
XD-951		YES	YES	YES	YES (Except for Europe, U.K. and Russia)	CRS-N851	YES (Europe, U.K. and Russia
XD-A900		YES		:		CRS-N851	YES (Europe, U.K. and Russia
XD-A700	YES					CRS-N551 (For U.S.A. and Canada) CRS-N851 (For Europe, Russia and Austraria)	YES (Europe, U.K. and Russia)

KE	NΪ	<b>\</b>	$\cap$	$\bigcap$	
	V	W		V	U

## 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.

Moael	Seriai Number	
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