

# KENWOOD

MULTIPLE COMPACT DISC PLAYER

**DPF-J9030**  
**CD-4900M**

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## INSTRUCTION MANUAL

KENWOOD CORPORATION

**This unit is designed for home use only. If the unit is used in a location other than at home, such as in a shop (for commercial use), in a car or in a ship, etc., and is damaged, a service fee may be charged even during the warranty period.**

**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.**



B60-4465-08 00 (K, T)  9909

# Before applying power

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

## 2 Units are designed for operation as follows.

**U.S.A. and Canada** ..... **AC 120 V only**  
**Europe and U.K.** ..... **AC 230 V only**

### For the United Kingdom

#### Factory fitted moulded mains plug

- 1.The mains plug 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 plug.
- 3.Do not cut off the mains plug from this equipment. If the plug fitted 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 cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.





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

Blue : Neutral  
Brown : Live

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

## Safety precautions

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

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN		CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.		
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.		

### 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 component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

# Your New Kenwood 200-Disc CD Changer

## Welcome to your new Kenwood 200-Disc CD Changer.

CD-4900M is sold in USA. DPF-J9030 is sold in other countries.

### *This CD changer offers the following exciting features :*

- 200-disc capacity
- 10-key remote and infrared remote keyboard
- Digital audio output
- CD Text, which displays text from encoded CDs on the unit's display.
- Disc and Track Naming, which allows you to program your own names for discs and tracks.
- Music Type File, which lets you organize your discs into specific musical types (such as Classical, Jazz, Rock), and then play them by type.
- Dual disc transport mechanisms (2 CD players)
- Continuous Single-Zone Playback, which uses both the changer's players to play all discs or tracks continually, without interruption.
- Simultaneous Dual-Zone Playback, which plays 2 different CDs in 2 rooms at once when used with a Kenwood Dual-Zone/Dual-Source receiver.

### *Your new changer can play the following disc types :*

- Standard 12 cm CDs
  - CDV (Video) and CDG (Graphics), although it will not display the video portion
- You may not play 8 cm CD "singles."

## Unpacking

Unpack your new CD changer carefully and make sure that all the accessories are present:

If any accessories are missing, or if the changer is damaged or fails to operate, notify your dealer immediately. If your changer was shipped to you directly, notify your shipper immediately. Kenwood recommends that you retain the original carton and packing materials in case you need to move or ship the changer in the future.

Keep this manual handy for future reference.

### Accessories

Audio cables ..... (2)



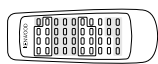
System control cable ..... (1)



Communication cable ..... (1)



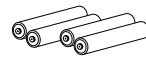
10-key Remote ..... (1)



Infrared Remote Keyboard ..... (1)





Batteries (R6/AA) ..... (4)



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


# Chapter 1 : Setting Up Your New CD Changer

## Welcome to the Kenwood CD-4900M/DPF-J9030 Instruction manual.

The Instruction manual contains all the information you need to know to set up and operate your new CD changer safely and enjoyably.

This chapter guides you through the connection and setup of your new CD changer and its remote.

### Refer to the following pages for details on these issues :


- Connecting to a Receiver or Amplifier → 
- System Control Chaining → 
- Setting Up the 10-Key Remote and Keyboard → 

**Your CD changer includes a standard remote and a remote keyboard (for easier text entry). You can use either device to control the changer. For the sake of simplicity, this manual provides standard remote instructions for all functions except text entry.**


## Before You Begin

Be sure to read the notes on this page before you begin setting up the changer.



1. All cables (except the digital optical cable) should have been supplied with your new CD changer. see "**Unpacking**" → 

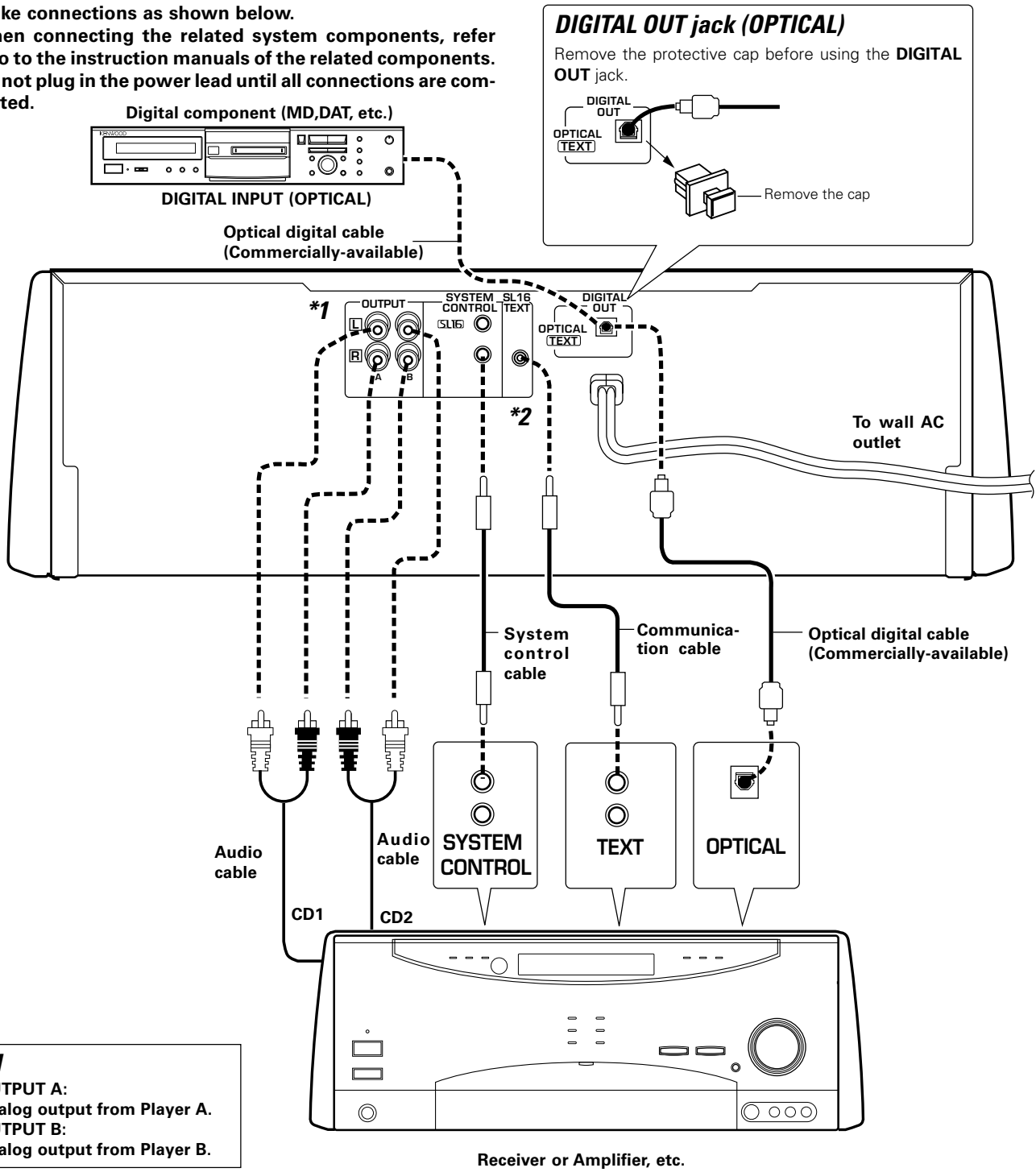
If you need to purchase additional or replacement cables, visit any home electronics store or the Kenwood USA Web site at [www.kenwoodusa.com](http://www.kenwoodusa.com). **You can also call 1-800-KENWOOD.** (For USA and Canada only)

2. Do not plug in the CD changer's power cord until you have finished making connections to your receiver or amplifier.
3. If you exposed your changer to a great difference in temperature (for example, if you purchased it in winter from a store with an unheated warehouse) or if the humidity in the room changes, condensation may form inside the unit. If this occurs, connect the unit, turn it on, and leave it on but unused for a few hours. This will evaporate the condensation and return your changer to working order. Restart the changer before using it again.
4. Clean your CD changer with a soft, dry cloth. Avoid solvents of any kind, as they may damage the cabinet components.
5. Do not use CD accessories such as protection sheets or disc cleaners with your new CD changer.
6. Kenwood recommends having your CD changer's precision optical pickup inspected periodically. Depending on the operation environment (humidity, dust, smoke, etc.), this pickup should operate approximately 1,000 hours before requiring inspection. To schedule inspection, consult the store where you purchased the changer or visit the Kenwood USA Web site's Support area.
7. Only player A supports DTS playback.
8. Be sure to locate your changer on a level and stationary surface, or it will not be able to play discs properly.
9. Your CD changer continues to store the following information for at least 3 weeks after you unplug its power cord:
  - Power status (on or off)
  - Disc and track names
  - Music Type assignments
  - User File assignments
  - Best Selection assignments
  - DTS assignmentsAfter that you must reset this information according to the instructions in this manual. → 

10. Once you have set up the changer and loaded discs, you should not move it without doing the following:
  - (1) Remove all the discs from the unit and close the disc door.
  - (2) Look at the display(s). "**NO DISC**" should appear steadily (i.e., it should not be flashing).
  - (3) Turn off the CD changer.
  - (4) A few seconds after the display appears, disconnect the CD changer from the receiver and unplug the CD changer from the wall outlet or power strip.

# Connecting to a Receiver or Amplifier

Make connections as shown below. When connecting the related system components, refer also to the instruction manuals of the related components. Do not plug in the power lead until all connections are completed.



**\* 1**  
**OUTPUT A:**  
 Analog output from Player A.  
**OUTPUT B:**  
 Analog output from Player B.


**\* 2**  
**Note on the SL-16 TEXT jack**  
 When using a KENWOOD Receiver equipped with the SL-16 TEXT jack, connect it to the Receiver using the communication cable provided with this unit. This makes it possible to display the disc and track titles on the LCD remote control unit (provided with the Receiver).

**Note** If your receiver has the SL16/XS8 mode select switch, set the connected receiver to the [SL16] mode.

**DTS Disclaimer clause**  
 When playing DTS-encoded CDs, excessive noise will be exhibited from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the CD player is connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output (S/P DIF, AES/EBU, or TosLink) of the CD player.

1. Connect all cables firmly. If connections are loose, there could be loss of sound or noise produced.
2. When plugging and unplugging connection cables, be sure to first remove the power cable from the AC outlet. Plugging/unplugging connection cables without removal of the power cable can cause malfunctions or damage to the unit.

### To Connect the Changer to a Kenwood Receiver

1. Unplug the receiver from the wall outlet or power strip.
2. Connect the audio cable from output A on the CD changer to the receiver as shown to the left. If you are connecting the CD changer to a receiver that supports Dual-Zone/Dual-Source listening (such as the VR-4900/KRF-V9993D shown in the illustration), connect audio cables for both outputs A and B to the appropriate jacks on the receiver.
3. Connect an optional optical digital cable from the changer to the receiver as shown to the left. If your receiver does not support digital output, skip this step.  
If you do not connect a digital cable or if your receiver does not support digital output and DTS decoding, DTS discs do not play on your changer.
4. Connect the system control cable from the changer to the receiver jack as shown to the left. If your receiver has the SL16/XS8 mode select switch, set the connected receiver to the [SL16] mode. If you are connecting more than one Kenwood device with a system control cable, see "What if I Have Several Kenwood Devices?" for more information. 
5. Connect the SL16 text cable (Communication cable) from the changer to the receiver's jack as shown to the left.
6. Plug the changer's power cable into a wall outlet or power strip.
7. Plug the receiver's power cord back into a wall outlet or power strip.

### To Connect the Changer to a Non-Kenwood Receiver or Preamplifier


1. Unplug the receiver or preamplifier from the wall outlet or power strip.
2. Connect the audio cable(s) from output A on the CD changer to the receiver or preamplifier as shown to the left.
3. Connect an optional optical digital cable from the changer to the receiver or preamplifier as shown to the left. If your receiver does not support digital output and DTS decoding, skip this step. If you do not connect a digital cable or if your receiver does not support digital output, DTS discs do not play on your changer.
4. Plug the changer's power cable into a wall outlet or power strip.
5. Plug the receiver's power cable back into a wall outlet or power strip.

### To Connect the Digital Output Directly to a Digital Recorder (MD, DAT, etc.)

If your receiver does not support digital output, but you want to record discs to a digital format, you can connect the CD changer directly to a digital recording device, such as an MD or DAT recorder.

1. Unplug the digital recorder from the wall outlet or power strip.
2. Connect the digital cable from the changer to the recorder.
3. Plug the changer's power cable into a wall outlet or power strip.
4. Plug the recorder's power cable back into a wall outlet or power strip.

#### **Malfunction of microcomputer**

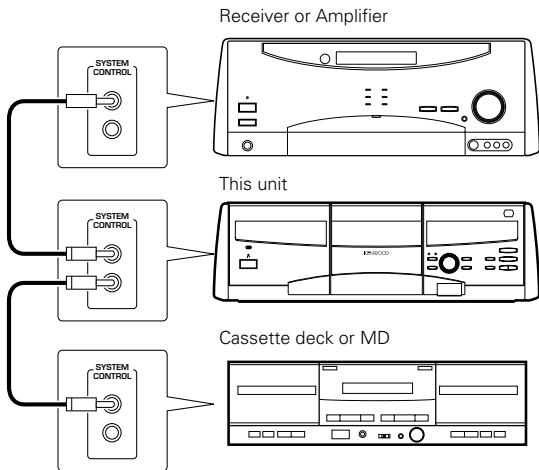
If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty". 

# System Control Chaining

## What if I Have Several Kenwood Devices ?

System control allows you to :

- control connected devices via the receiver's remote control
- switch the receiver's input automatically to a connected device when you start playback from that device
- synchronize recording a CD or MD automatically when you start playback from those connected devices



**This unit is compatible only with the [SL16] mode. The system control operation is not available if the unit is connected in the [XS-8] connection mode.**

- You can connect the system control cord to either system control jack of the unit.
- If your component has the mode select switch, set the connected components to the [SL16] mode. (Ensure that the power plug is not connected.)



1. If your amplifier or receiver does not support system control, do not connect the system control cable to any device.
2. Some CD players and cassette decks do not support the SL16 system control mode. Do not include these devices in a set of SL16 chained connections.
3. Do not connect system control cables to any device not specified by Kenwood. Using system control functions with a device that does not support them can damage the device.
4. Make sure system control plugs are firmly seated in the appropriate jacks.

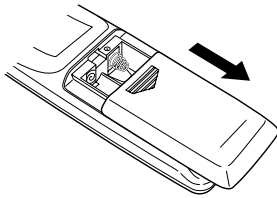


# Setting Up the 10-key Remote and Keyboard

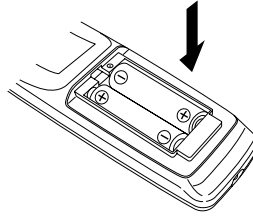
## 10-key Remote

### To load Batteries

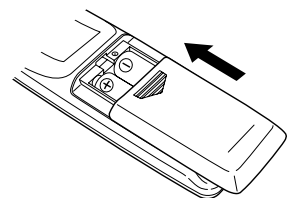
❶ Remove the cover.



❷ Insert two AA batteries.



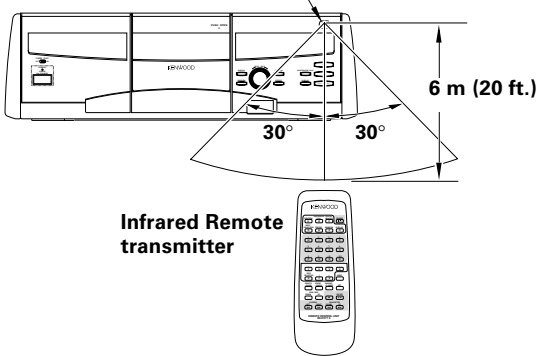
❸ Close the cover.



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

The 10-key remote operates in the following range:

Infrared Remote Sensor



### Remote Operating Range

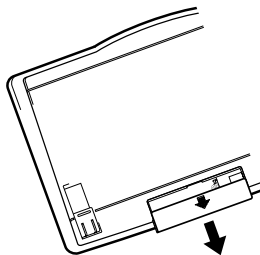
If you use the remote outside of this range, the remote will not operate correctly. As you use the remote, be aware of the following:

- The batteries that came with your new CD changer are intended to be used for operation checks and setup. Therefore, they may not last as long as ordinary batteries. Consider replacing them as soon as you have verified that the remote operates correctly.
- When the remote's operating range gets shorter, replace both batteries.
- Do not install the CD changer where direct sunlight or high-frequency fluorescent lighting can shine directly into the remote sensor. This can decrease the operating range of your remote.
- When pressing more than one remote control key successively, press the keys securely by leaving an interval of 1 second or more between keys.

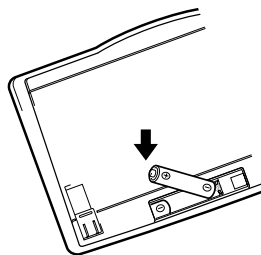
## Keyboard

### To load Batteries

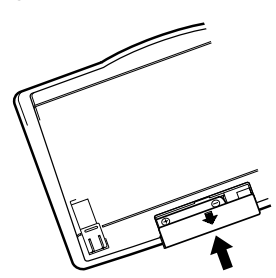
❶ Remove the cover.



❷ Insert two AA batteries.



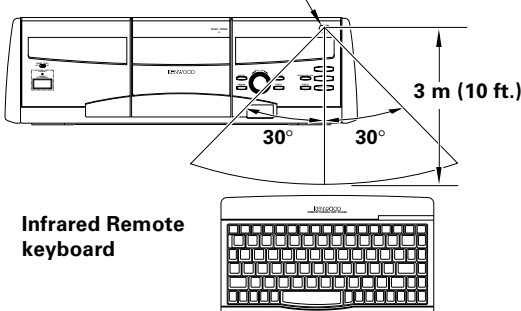
❸ Close the cover.



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

The keyboard operates in the following range:

Infrared Remote Sensor



### Keyboard Operating Range

If you use the remote outside of this range, the remote will not operate correctly. As you use the remote, be aware of the following:

- The batteries that came with your new CD changer are intended to be used for operation checks and setup. Therefore, they may not last as long as ordinary batteries. Consider replacing them as soon as you have verified that the keyboard operates correctly.
- When the remote's operating range gets shorter, replace both batteries.
- Do not install the CD changer where direct sunlight or high-frequency fluorescent lighting can shine directly into the remote sensor. This can decrease the operating range of your keyboard.
- When pressing more than one remote control key successively, press the keys securely by leaving an interval of 1 second or more between keys.


## Chapter 2 : Getting to know Your New CD Changer

### 10 Your new CD changer contains the following sophisticated features :

- **An easy-to-use front panel, remote and keyboard**

See "Front Panel" →  11

See "10-key Remote" →  13

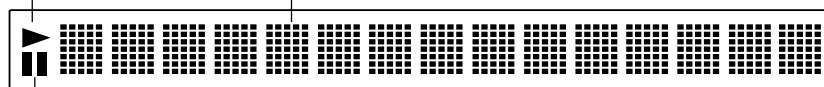
See "Keyboard" →  14

- **Multiple front panel display format that allow you to view detailed information about the disc currently playing**

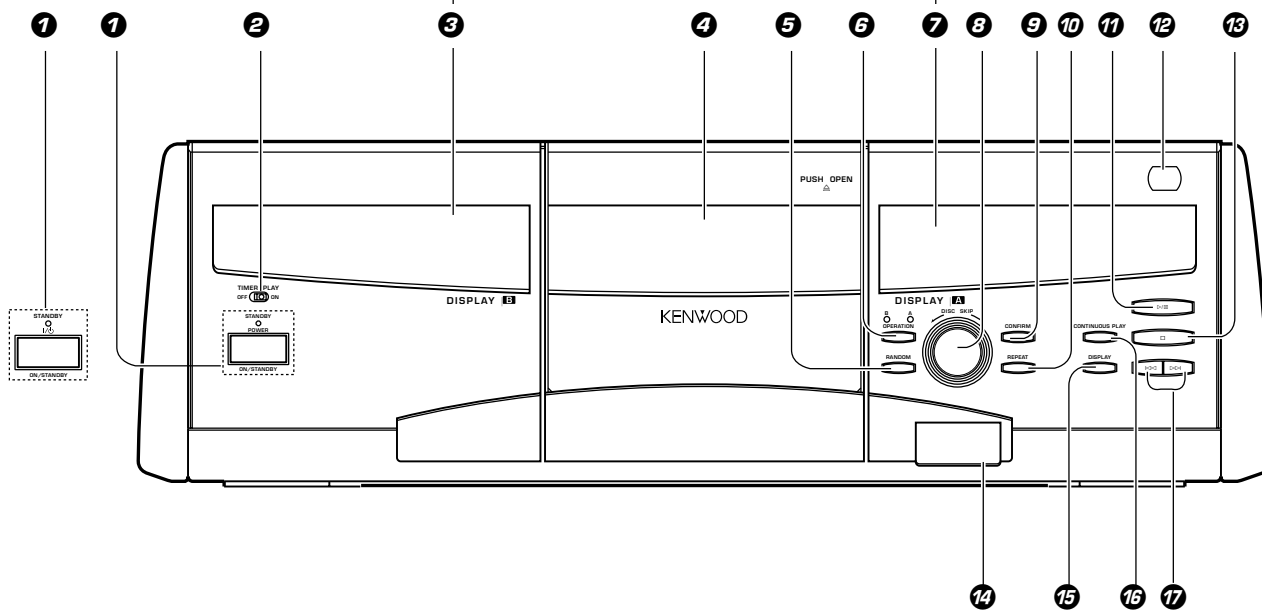
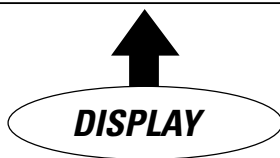
See "Front Panel Displays" →  12

Your CD changer includes a standard remote and a remote keyboard (for easier text entry). You can use either device to control the changer. For the sake of simplicity, this manual provides standard remote instructions for all functions except text entry.

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



Pause indicator



**1 POWER button/STANDBY indicator (For U.S.A.)**  
 | / button/STANDBY indicator (For other countries)

**2 TIMER PLAY switch**

**3 Player B display**

**4 Disc door**

**5 RANDOM button**

**6 OPERATION A-B button**

**7 Player A display**

**8 DISC SKIP knob**

Used for disc selection. Characters are selected at the time of character input.

**9 CONFIRM button**

**10 REPEAT button**

**11 Play/Pause (▶/||) button**

**12 Remote sensor**

**13 Stop (■) button**

**14 LCD remote transmitter**

The disc and track title data are output to the LCD remote control unit (provided with a KENWOOD Receiver or optional) through this window.

**15 DISPLAY button**

**16 CONTINUOUS PLAY button**

**17 Track skip button (◀◀, ▶▶)**

Press to skip to the beginning of another track. Characters are selected at the time of title registration.

## Standby mode

While the standby indicator of the unit is lit, a small amount of current is flowing into the unit's internal circuitry to back up the memory. This condition is referred to as the standby mode of the unit. While the unit is in the standby mode, it can be turned ON from the remote control unit.

## 12 Front Panel Displays

Your CD changer's front panel has one display for each player it contains. These displays show information about the disc or track currently being played. Since some of the text information may be longer than can be displayed on one line, the text information scrolls, if necessary.

### Basic Info/Time Info

This display shows basic information like disc and track numbers as well as disc and track-specific time information (elapsed and remaining).

#### To change the display :

1. Choose a player A or B. → 18
2. Press the DISPLAY button on the front panel, remote, or the keyboard until the information you want appears. The panel display shows the following:

- ① Track title display (if the CD contains encoded title data or if you have entered title data)

▶ CONCERTO IN D

- ② Disc number/Track number display (the default if there is no title information)

▶ DISC123 TRACK01

- ③ Disc title display (if the CD contains encoded title data or if you have entered title data)

▶ LOVE LOVE LOVE

- ④ Elapsed time of current track

Disc #	Track #	Time
▶ D123	10	2:37

- ⑤ Remaining time of current track

Disc #	Track #	Time
▶ D123	10	-1:23

- ⑥ Elapsed time of current disc

Disc #	Track #	Time
▶ D123	10	36:25T

- ⑦ Remaining time of current disc

Disc #	Track #	Time
▶ D123	10	-23:45T

During Stop	During Play
<ul style="list-style-type: none"> <li>● In the <b>TRACK</b> mode, <b>MUSIC TYPE</b> mode, information is displayed in order of ③, ② then ④.</li> <li>● In the <b>PGM</b> mode, information is displayed in order of ①, ②, ③ then ④.</li> </ul>	<ul style="list-style-type: none"> <li>● In the <b>TRACK</b> mode, information is displayed in order of ①, ②, ③, ④, ⑤, ⑥ then ⑦.</li> <li>● In the <b>PGM</b> mode, <b>RANDOM</b> mode, <b>MUSIC TYPE</b> mode and <b>BEST SELECTION</b> mode, information is displayed in order of ①, ②, ③, ④ then ⑤.</li> </ul>

### Complete CD-Text Info (Player A only)

In the case of a CD-TEXT disc, the text information shown below is displayed automatically during normal play (TRACK mode).

#### To view complete text information :

1. Press MODE button on the remote or keyboard.
2. Use DISC SKIP (DOWN/UP) button on the remote or keyboard to select "ALL INFORMATION".
3. Press SET button on the remote or keyboard. The display cycles through the following:

- ① Disc/Track Title
- ② Disc/Track Artist
- ③ Disc/Track Songwriter
- ④ Disc/Track Composer
- ⑤ Disc/Track Arranger
- ⑥ Disc/Track Message (such as a message from a sponsor or artist)
- ⑦ ID INFO. (such as record company, release date, etc.)
- ⑧ Genre INFO.

● Items from ① to ⑥ are displayed in the sequence of disc and track.

● If there is no information for any given area, the panel displays "-----". If the disc does not have factory-encoded CD Text disc or track information, "NO CD TEXT" appears for 3 seconds.

To view the next or previous information item, use DISC SKIP (DOWN/UP) button on the remote or keyboard.

To skip tracks, use Skip (◀▶)(DOWN/UP) button on the remote or keyboard.

To stop viewing text information, press MODE button on the remote or keyboard.



With a CD-TEXT disc, disc and track titles can be displayed without the limit on the number of characters when "ALL INFORMATION" is set. The disc and track titles are also displayed without the limit on the number of characters during playback or loading of a CD-TEXT disc.

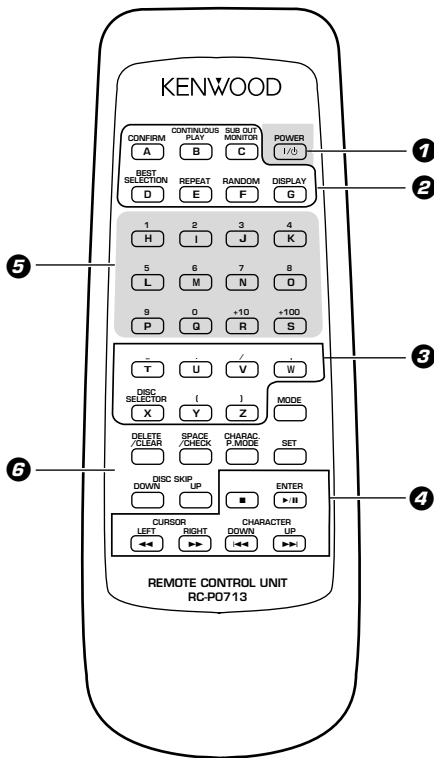
# 10-key Remote and Keyboard

All operations can be controlled from both the 10-Key Remote and Keyboard remote control units.

## 10-key Remote

The buttons with the same name as those on the main unit operate the same way as on the main unit.

The buttons marked \* are provided only on the remote control unit. The remote control unit controls Player A regardless of whether the **OPERATION A-B** indicator on the main unit is lit or not.



Model : RC-P0713  
(Player A only)  
Infrared ray system

### 1 POWER (I / ⏻)

### 2 Buttons for modes, display control and letters

- CONFIRM
- CONTINUOUS PLAY
- SUB OUT MONITOR \*  
Used to monitor the audio played on Player B.
- BEST SELECTION \*  
Used for best selection registration and playback.
- REPEAT
- RANDOM
- DISPLAY

### 3 Buttons for selecting discs and entering special characters

- DISC SELECTOR \*  
Press to select a disc number.
- Letter/special character buttons \*  
Used for selection of disc numbers, as well as for character input.

### 4 Buttons for basic operation

- Stop (■)
- ENTER/Play/Pause (▶/⏸)
- Search (◀◀, ▶▶), CURSOR (LEFT/RIGHT) \*  
Press to move the played position of disc at high speed. Used as cursor buttons at the time of character input.
- Skip (◀◀, ▶▶), CHARACTER (DOWN/UP)

### 5 Buttons for entering numbers and letters \*

- Used for selection of disc numbers and track numbers, as well as for character input.

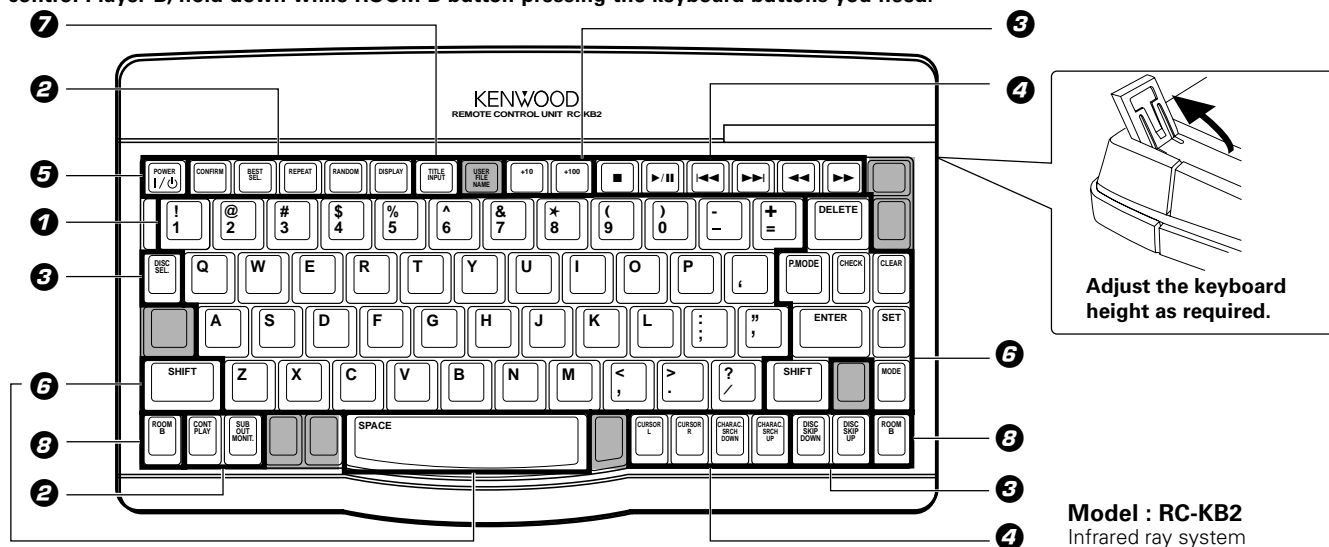
### 6 Buttons for programming and data entry

- MODE \*  
Press to switch the mode.
- DELETE/CLEAR \*  
Used to delete the entered contents. At the time of character input, characters are deleted.
- SPACE/CHECK \*  
Used to confirm the entered contents. Inserts a space at the time of character input.
- CHARAC./P. MODE \*  
Used for playback mode switching. At the time of character input, this button switches between capital letters/small letters/numbers and special characters.
- SET \*  
Used for confirmation of mode settings. At the time of character input, one character is confirmed and the cursor goes to the next digit.
- DISC SKIP (DOWN/UP)

# 14 Keyboard

The buttons with the same name as those on the main unit operate the same way as on the main unit.  
The buttons marked \* are provided only on the remote control unit.  
Buttons masked with  are not used with this unit.

You can use the keyboard to control both players. To control Player A, press the keyboard buttons as normal.  
To control Player B, hold down while ROOM B button pressing the keyboard buttons you need.



Buttons inside  are those for use with ROOM B.

## ① Input buttons for numbers and letters \*

Used for selection of disc numbers and track numbers, as well as for character input.

- 0~9 \*

## ② Buttons related to playback mode and display

- CONFIRM
- **CONT PLAY**
- **SUB OUT MONIT. \***  
Used to monitor the audio played on player B.
- **BEST SEL. \***  
Used for best selection registration and playback.
- REPEAT
- RANDOM
- DISPLAY

## ③ Disc selection buttons

- +10 \*
- +100 \*
- DISC SEL. \*  
Press to select a disc number.
- DISC SKIP (DOWN/UP)

## ④ Buttons for basic operation and character input

- Stop (■)
- Play/Pause (▶/⏸)
- Skip (◀◀, ▶▶)
- Search (◀◀, ▶▶) \*  
Press to move the played position of disc at high speed.
- **CHARAC. SRCH UP/DOWN \***  
Characters are selected at the time of character input.
- **CURSOR (L/R) \***  
Used as cursor buttons at the time of character input.

## ⑤ POWER (I / ⏻)

## ⑥ Buttons related to program and file registration

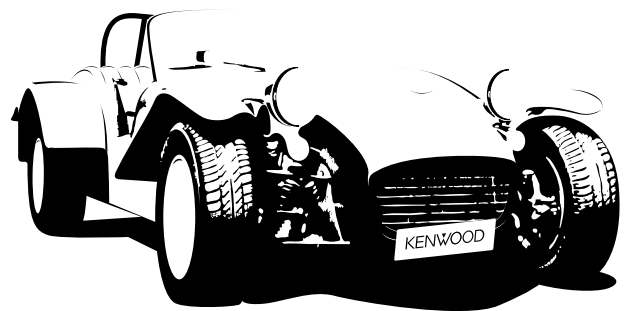
- **MODE \***  
Press to switch the mode.
- **SET \***  
Used for confirmation of mode settings. At the time of character input, one character is confirmed and the cursor goes to the next digit.
- **ENTER \***  
Used for title confirmation.
- **SHIFT \***  
(This button is provided only on the Keyboard.)  
At the time of character input, this button switches between capital letters/small letters/numbers and special characters.
- **P.MODE \***  
Used for playback mode switching.
- **CHECK \***  
Used to confirm the entered contents.
- **SPACE \***  
Inserts a space at the time of character input.
- **DELETE \***  
At the time of character input, characters are deleted.
- **CLEAR \***  
Used to delete the entered contents.

## ⑦ Shortcut button to the TITLE INPUT mode

- (This button is provided only on the Keyboard.)
- **TITLE INPUT \***

## ⑧ ROOM B \*

- (This button is provided only on the Keyboard.)  
Press when controlling Player B.



# Chapter 3 : Loading and Playing Discs

## 16 Your new CD changer contains a disc carousel that can store and play up to 200 discs using any of the following methods :

- **Normal Play, where you play each disc in the order loaded**

Normal play (TRACK mode), where the CD changer acts like a regular CD player, playing the next disc in the queue from start to finish, then stopping.

See "Normal play (TRACK mode)" → 19

- **Repeat Play, which plays the tracks or discs over and over**

Repeat mode where the CD changer plays a particular disc or set of tracks over and over.

See "Repeated playback (REPEAT mode)" → 22

- **Random Play, which plays the tracks on the loaded CDs in random order**

Random mode where the CD changer plays all tracks on all discs loaded in the carousel in random order, without repeating any tracks.

See "Playback in a random order (RANDOM mode)" → 23

- **Programmed play order**

See "Programming tracks in desired order (PGM mode)" → 24

- **Continuous Play, which lets your CD changer function as your own personal jukebox, providing continuous music — a CD plays on one player while the next CD is queuing up on the other**

Continuous mode where the CD changer uses both players to provide seamless continuous audio—while a disc plays on one player, another is queued on the second player.

See "Continuous playback" → 26

- **Timed Play, where you use an optional audio timer to automatically begin playing all CDs or only specified CDs**

See "Timer operation" → 27

- **Internal processing that recognizes and stores disc data such as DTS registration**

See "Registration of DTS discs" → 28

Your CD changer includes a standard remote and a remote keyboard (for easier text entry). You can use either device to control the changer. For the sake of simplicity, this manual provides standard remote instructions for all functions except text entry.

The keyboard enables you to operate either player. To operate player A, press the keyboard buttons as normal. To operate player B, hold down ROOM B button while pressing the appropriate keyboard buttons.



# Preparation

Up to 200 CDs can be loaded in the carousel. Disc exchange also is possible during playback.

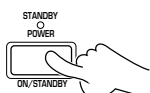
Never let your hand or any object enter inside the unit.

## Loading discs in the carousel

### 1 Switch power ON.

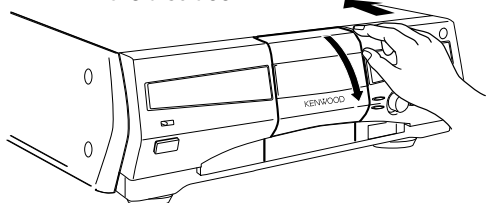
Press the POWER (I / ⏻) button.

Main unit



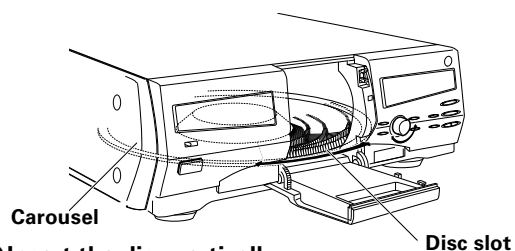
### 2 Open the disc door toward the front.

Press PUSH OPEN at the right top of the disc door.



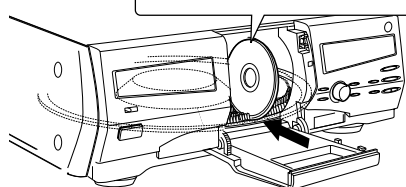
### 3 Load discs.

1 Turn the DISC SKIP knob and bring the slot with the disc to be placed to the front.



2 Insert the disc vertically.

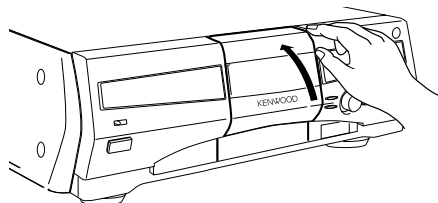
Insert CDs with the label side facing toward your right.



Insert one CD per slot all the way.

3 Repeat 1 and 2 to insert discs.

### 4 Close the disc door.



- Do not place any object on the open disc door.

DISPLAY-A (or DISPLAY-B)

DISC001

The slot No. is displayed when the DISC SKIP knob is turned.

DISPLAY-B (or DISPLAY-A)

OPEN



Insert discs with the label on the right side. Playback is not possible when a disc is inserted the other way round.

- Do not insert more than one disc in a slot.
  - When a disc not corresponding to CD-TEXT is inserted, searching for this disc will be facilitated when the title is registered at the time of disc insertion.
- "Registration of Title" → 30

- When a title has been registered and the disc door is closed, reading operation is performed automatically.

DISPLAY-A : The display flashes.

DISC DETECTION

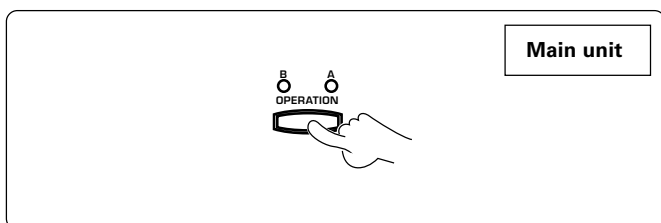
## Disc replacement

Discs can be replaced with the same procedure as "Loading discs in the carousel". In stopped condition, all discs can be exchanged. However, when the disc door is opened while "DISC DETECTION" is being displayed, it may not be possible to remove the disc which had been played. Accordingly, wait for the "DISC DETECTION" indication to go out before opening the disc door. When the disc information has been read in at the time of registration of disc information like title, music type, etc., the disc information can be recalled even when the disc insertion place is changed.

→ 31

## Selecting Player A or B

The audio played on Player A is output from OUTPUT-A and that played on Player B is output from OUTPUT-B. This makes it possible to enjoy different music in different rooms.

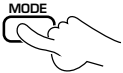
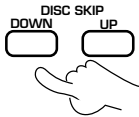



- Each press of the button switches Players A and B alternately and lights the indicators accordingly.
- After selecting the Player, operate the player.
- The **OPERATION A-B** button is set to A during continuous play mode. It is not possible to switch the Player during it.
- If a registered DTS disc is selected when the Player B is selected, blinking "DTS DISC!" is displayed and the DTS disc selection is cancelled.

→ 28

## In regard to ALL DATA READ mode (Player A only)

The disc information for all discs will be read. It is convenient to execute this mode before playback after discs have been exchanged. Close the disc door before operation.

- Press the MODE button.
 
- Select "ALL DATA READ".
 
- Set the input.
 



To display the title on a LCD remote control unit (provided with a KENWOOD Receiver or optional), perform the all data read operation first, and operate the LCD remote control unit with the door left closed. For the operation of the LCD remote control unit, refer to the instruction manual provided with your receiver or LCD remote control unit.

### Each press switches the modes as follows:

- MUSIC TYPE
- DISC SEARCH
- TITLE INPUT
- ALL DATA READ
- ALL INFORMATION
- DTS DISC SKIP

DISPLAY-A

ALL DATA READ

Search in progress or reading information      The display flashes.

DISC READING

When the disc is CD-TEXT

D001 : CD TEXT

- Repeat the above procedure so that the complete disc information is read into the CD player.
- In the case of a non-CD-TEXT disc, the "D001:NO CD TEXT" display will appear for approx. 3 seconds.
- This operation is not available during the continuous play mode.

### To quit ALL DATA READ mode

Press the ■ button.



1. Please remove all CDs from the carousel before moving the unit.
2. If blinking "PLEASE WAIT" is displayed when the disc door is opened, do not attempt to change the disc.

# Normal play (TRACK mode)

## Preparation

- Select the Player A or Player B.



The 10-key remote is not capable of controlling Player B. It should be controlled from the keyboard. Be sure to hold the ROOM B button when controlling Player B.

## Playing tracks in order from track No.1

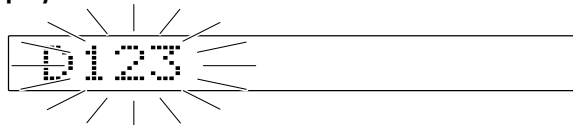
Use the following procedure to play a CD in the original order of tracks from track No.1.

### 1 Select the disc.

DISC SKIP DOWN UP  
Previous disc Next disc  
Go to step 2 within 8 sec.

- Each press of a button increases (or decreases) the disc number. Holding the button depressed varies the disc numbers successively.
  - When the disc corresponds to CD-TEXT, or when the disc title has been registered, the disc title will be displayed with scrolling. Discs can be selected by the disc title.
- "Registration of Title"

Display when disc No. 123 is selected



### 2 Start playback.

- When the disc corresponds to CD-TEXT, or when the track titles have been registered, the track title is displayed.
- If the selected disc is being played on the other player, blinking "DISCXXX BUSY!" is displayed and the disc will not be played.

### For continuous playback

Press the CONTINUOUS PLAY button.

### To pause playback

- Each press pauses and plays the CD alternately.

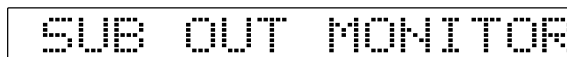
### To stop playback

### In regard to SUB OUT MONITOR



Press the SUB OUT MONITOR button to output the audio played on Player B from OUTPUT-A. Each press of the button switches this feature on and off alternately.

DISPLAY-A



- This operation is not available during the continuous play mode.

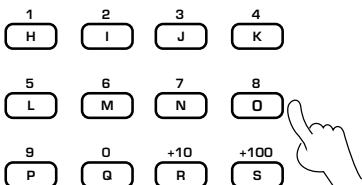
## Direct disc selection

① Press the DISC SELECTOR button.



Within 8 seconds!

② Input the disc number.



Within 8 seconds!

③ Start playback.



Press the numeric buttons in the following order...

Disc No. 63 : 6, 3  
Disc No. 100 : 1, 0, 0

● If the selected disc is being played on Player B, blinking "DISCXXX BUSY!" is displayed and the disc will not be played.

### How to input numeric values

The input method for this product is of two different types. One can either use the traditional KENWOOD +10 button approach, or direct numeric input.

#### Special input method for CD player with 200-disc changer

To input 42 : 4, 2  
To input 115 : 1, 1, 5  
To input 200 : 2, 0, 0

#### Same input method as other KENWOOD products

To input 42 : +10, +10, +10, +10, 2  
To input 115 : +100, +10, 5  
To input 200 : +100, +100

### What is the "normal play TRACK mode"?

Playback is made from the first track. The normal playback mode is called TRACK mode. Press the CONFIRM button to confirm the present mode.



TRACK mode

▶ TRACK D120 T02

PGM mode

▶ PGM01 D131 T02

BEST SELECTION mode

▶ BEST01 D104 T03

MUSIC TYPE mode

▶ M. TYPE Rhythn

RANDOM mode

▶ ONE DISC RANDOM

REPEAT mode

▶ REPEAT ON

### To set the unit to the TRACK mode:

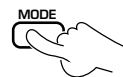
At the time of PGM mode:  
Press the P.MODE button.



At the time of BEST SELECTION mode:  
Press the ■ button during playback.



At the time of MUSIC TYPE mode:  
Press the MODE button.



At the time of RANDOM mode:  
Select "RANDOM OFF".



At the time of REPEAT mode:  
Select "REPEAT OFF".



**Preparation**

- Select the Player A or Player B.

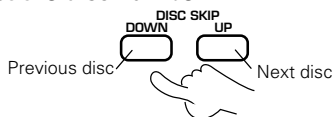


The 10-key remote is not capable of controlling Player B. It should be controlled from the keyboard. Be sure to hold the ROOM B button when controlling Player B.

# Playback from desired track

## 1 Select the disc.

① Select the disc number.

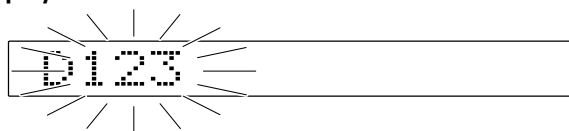


② Set the input.



Go to step 2 within 8 sec.

Display when disc No. 123 is selected

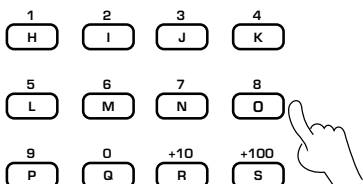


- The disc number can be selected directly by using the DISC SELECTOR and numeric buttons in place of the DISC SKIP (DOWN/UP) buttons.
- When the disc corresponds to CD-TEXT, or when the disc title has been registered, the disc title will be displayed with scrolling. Discs can be selected by the disc title. "Registration of Title"
- Repeat step 1 when it is required to change the disc number.



## 2 Select the track number.

① Input the track number.



Within 8 seconds!

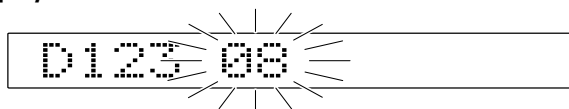
② Set the input.



Press the numeric buttons in the following order...

- Track No.8 : 8
- Track No.14 : 1, 4
- Track No.20 : 2, 0

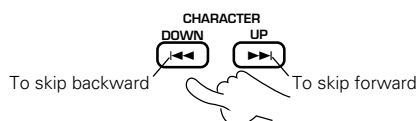
Display when track No. 8 is selected



- When the disc corresponds to CD-TEXT, or when the track titles have been registered, the track title is displayed. Tracks can be selected by the track title. "Registration of Title"
- Playback starts.
- If the selected disc is being played on the other player, blinking "DISCXXX BUSY!" is displayed and the disc will not be played.
- Repeat step 2 when it is required to change the track number.

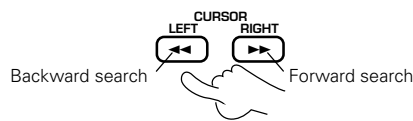


## Skipping tracks



- When the ◀◀ button is pressed once during playback, the track being played will be played from the beginning.

## Searching



- Playback starts from the position where the button is released.

# Repeated playback (REPEAT mode)

## Preparation

- Select the Player A or Player B. → 18

The 10-key remote is not capable of controlling Player B. It should be controlled from the keyboard. Be sure to hold the ROOM B button when controlling Player B.

## To repeat only the desired tracks (Player A only)

- 1 Program the desired tracks by performing steps 1 to 2 of "Programming tracks in desired order". → 24

- 2 Switch REPEAT ON.



- 3 Start playback.



- Up to 32 tracks can be programmed by repeating steps 1.



- The current status is displayed when the button is pressed once. When it is pressed while the status is displayed, the repeat ON status can be set to OFF (or vice versa).

- All of the programmed tracks will be repeated.
- If a track to be played is located in the disc played on Player B, that track will be skipped.
- In case only one track is programmed, only that track will be repeated.

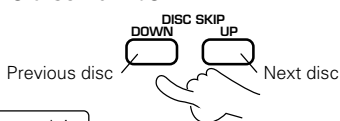
### To cancel repeated playback

Press the REPEAT button twice. (REPEAT ON → OFF)

## To repeat one selected disc

- 1 Check that the Player is in the normal play TRACK mode. → 20

- 2 Select the disc number.



- 3 Start playback.



- 4 Switch REPEAT ON.



- The disc number can be selected directly by using the DISC SELECTOR and numeric buttons in place of the DISC SKIP (DOWN/UP) buttons.

- If the selected disc is being played on the other Player, blinking "DISCXXX BUSY!" is displayed and the disc will not be played.



- The current status is displayed when the button is pressed once. When it is pressed while the status is displayed, the repeat ON status can be set to OFF (or vice versa).
- The operation is not available during the continuous play mode.

### To cancel repeated playback

Press the REPEAT button twice. (REPEAT ON → OFF)

For random repetition → 23

For music type or user file repetition → 35

For best selection repetition → 38

# Playback in a random order (RANDOM mode)

Use the following procedure to activate random playback which selects a track at random after every track. This feature may allow you to play CDs for long hours without getting tired of.

## Preparation

- Select the Player A or Player B. → 18

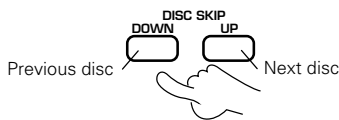
The 10-key remote is not capable of controlling Player B. It should be controlled from the keyboard. Be sure to hold the ROOM B button when controlling Player B.

**1** Check that the Player is in the normal play TRACK mode. → 20

**2** Select discs.

### To select one disc

① Select the disc number.



② Start playback.



③ Select "ONE DISC RANDOM".



- The disc number can be selected directly by using the DISC SELECTOR and numeric buttons in place of the DISC SKIP (DOWN/UP) buttons.
- If the selected disc is being played on the other Player, blinking "DISCXXX BUSY!" is displayed and the disc will not be played.
- "ONE DISC RANDOM" cannot be selected during the continuous play mode.

### Each press switches the modes as follows:

- ① ONE DISC RANDOM
- ② ALL DISC RANDOM
- ③ RANDOM OFF



The number here changes.

- Each time a track ends, the same operation as above is repeated, and the track selected next is played.
- Random play stops after all of the tunes have been played once.
- If a track to be played is located in the disc played on the other Player, that track will be skipped. (This track will not be selected later unless the REPEAT mode is set.)

### To select all discs

Select "ALL DISC RANDOM".



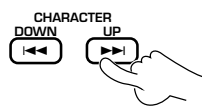
### For repeated playback

Press the REPEAT button to select "REPEAT ON".

### For continuous playback (ALL DISC RANDOM only)

Press the CONTINUOUS PLAY button.

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



- Pressing the I◀◀ button once returns to the beginning of the track being played.

### To cancel random playback

Select "RANDOM OFF".



or



- Press the ■ button to stop playback.
- Normal playback will be performed when RANDOM OFF is selected.

For random music type or random user file → 35

# Programming tracks in desired order (PGM mode)(Player A only)

Use the following procedure to select desired tracks (up to 32 tracks) from different discs and program them in the desired order.

## Preparation

- Set the Player A to stop mode.

### 1 Press so that the "PGM" indicator lights.

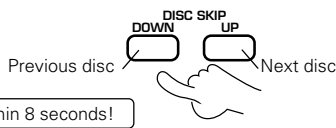


DISPLAY-A



### 2 Select the disc.

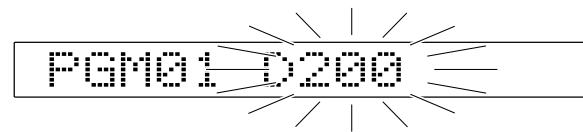
#### 1 Select the disc number.



#### 2 Set the input.



Go to step 3 within 8 sec.



- The disc number can be selected directly by using the **DISC SELECTOR** and numeric buttons in place of the **DISC SKIP (DOWN/UP)** buttons.
- When the disc corresponds to CD-TEXT, or when the disc title has been registered, the disc title will be displayed with scrolling. Discs can be selected by the disc title.

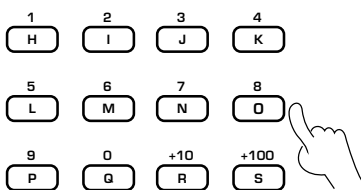
#### "Registration of Title"



- If you make a mistake, press the **CLEAR** button and enter the disc No. from the beginning.

### 3 Select the track number.

#### 1 Input the track number.



Within 8 seconds!

#### 2 Set the input.



#### Press the numeric buttons in the following order...

Track No.8 : 8

Track No.14 : 1, 4

Track No.20 : 2, 0



- To program the entire disc, press the **SET** button without inputting the track number. "ALL" will be displayed.
- When the disc corresponds to CD-TEXT, or when the track titles have been registered, the track title is displayed. Tracks can be selected by the track title.

#### "Registration of Title"



- Program other tracks in the desired order by repeating steps 2 and 3.
- Up to 32 tracks can be programmed. "FULL" is displayed when no more tracks can be programmed.
- If you make a mistake, press the **CLEAR** button and restart from step 2.

### 4 Start playback.



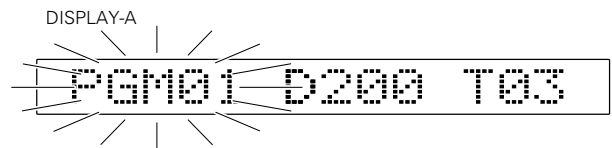
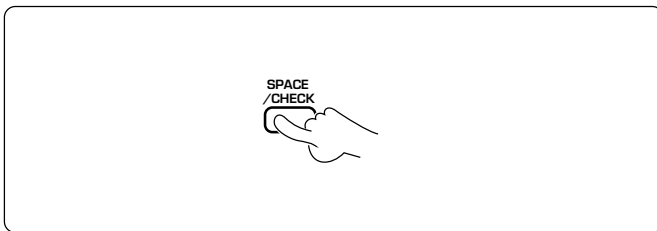
- Tracks will be played in the order they are programmed.
- If a track to be played is located in the disc played on Player B, that track will be skipped.
- When the **◀◀** or **▶▶** button is pressed during playback, the track will be skipped in the direction of the pressed button.

#### For continuous playback

Press the **CONTINUOUS PLAY** button.



### To check the programmed tracks



- Each time the button is pressed, the program No. and the disc No. are displayed.
- The previous display resumes in a few seconds.

### To add a track to the program

- 1 Set the Player A to stop mode.
- 2 Perform steps 2 and 3 of "Programming tracks in desired order". → 24

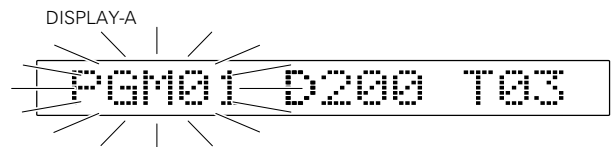
- When a track No. is entered, the track will be added to the end of the existing program.

### To change a track in the program

- 1 Set the Player A to stop mode.
- 2 Press the CHECK button.
- 3 Perform steps 2 and 3 of "Programming tracks in desired order". → 24



- Press the CHECK button repeatedly until the program No, to be changed is displayed.



Example

- Press it while the "PGM01" indicator blinks.
- The track being played cannot be changed.

### To clear tracks from the program

#### To clear tracks from the end



- Each time the button is pressed, the last track in the program is cleared.
- The tracks which are programmed earlier than the track being played cannot be cleared.

#### To clear all tracks



- When the P.MODE button is pressed during playback, playback in order of tracks starts from the track being played.

# Continuous playback

26

With this feature, the time required for disc change can be minimized so even different discs can be played naturally and almost continuously. The same audio signal is output at both OUTPUT-A and OUTPUT-B.

## Preparation

- Close the disc door.
- Set the Player B to stop mode.



Initiate the continuous play mode.



DISPLAY-B

CONTINUOUS PLAY

- The **OPERATION A-B** button is set to A during continuous play mode.
- When the disc door is opened, the continuous play mode is released and playback also stops.
- It is not possible to select a DTS disc during continuous play mode.

## To quit continuous play mode

Press the CONTINUOUS PLAY button.

**For continuous playback in normal play mode** → 19

**For continuous playback in PGM mode** → 24

**For continuous playback in ALL DISC RANDOM mode**  
→ 23


**For continuous playback in MUSIC TYPE PLAY mode**  
→ 35

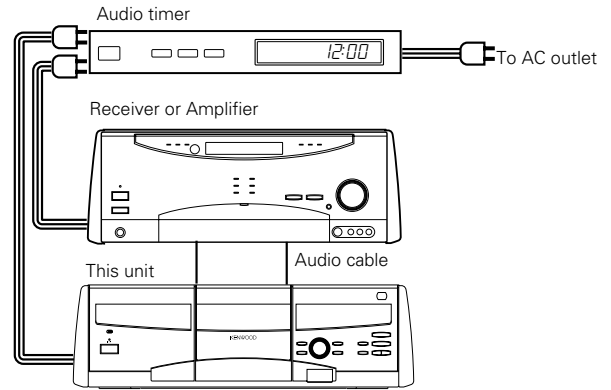
**For continuous playback in BEST SELECTION mode**  
→ 38

# Timer operation (Player A only)

As this unit incorporate the timer standby function, playback can be started at desired moment if a commercially available audio timer is combined with this unit.

## Preparation

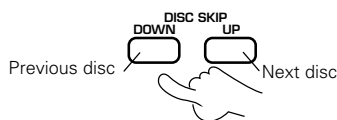
- Select the Player A. 
- Connect the system components so that their power can be switched on by the timer.
- Read the instruction manual of the timer carefully.



**1** Set the power switches of the system components to the ON positions.

**2** Select the disc to be played.

① Select the disc number.



Within 8 seconds!

② Play the disc.



**3** Set the listening volume.

① Adjust the volume on the amplifier or receiver.

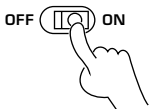
② Stop playback.

**4** Set the timer for the desired ON time.

**5** Set the **TIMER PLAY** switch to ON.

TIMER PLAY  
OFF ON

Main unit



- The disc number can be selected directly by using the **DISC SELECTOR** and numeric keys in place of the **DISC SKIP (DOWN/UP)** buttons.

- If the selected disc is being played on Player B, blinking "**DISCXXX BUSY!**" is displayed. In this case, either stop Player B and select the same disc again, or select another disc.

- Read the instruction manual of the timer carefully.

- When the set time comes, playback will start automatically.
- The playback mode will be TRACK mode.

# Registration of DTS discs

When playing DTS-encoded discs, excessive noise will be exhibited from the analog stereo outputs. If DTS discs are registered beforehand, the audio signal from the Player B (analog OUTPUT-B) is skipped. Use the following procedure before playing the DTS disc.

## Preparation

- Load DTS discs into the carousel. → 17
- Check that the Player A is in the normal play TRACK mode. → 20

### 1 Activate the dts disc skip mode.

1 Press the **MODE** button.



2 Select "DTS DISC SKIP".

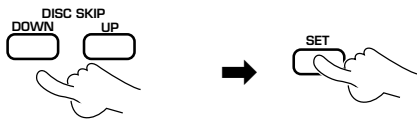


- When the **MODE** button is pressed during DTS DISC SKIP mode, the DTS DISC SKIP mode is cancelled.

Each press switches the modes as follows:

- 1 MUSIC TYPE
- 2 DISC SEARCH
- 3 TITLE INPUT
- 4 ALL DATA READ
- 5 ALL INFORMATION
- 6 DTS DISC SKIP

### 2 Select "SET DTS DISC".

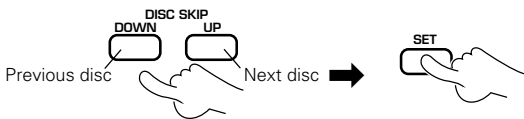


Each press switches the modes as follows:

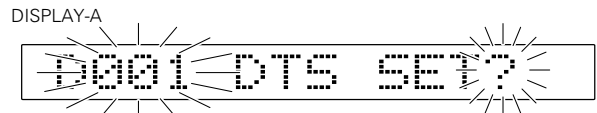
- 1 SET DTS DISC
- 2 CANCEL DTS DISC

### 3 Select the DTS disc.

Select the disc number.



- The disc number can be selected directly by using the numeric keys in place of the **DISC SKIP (DOWN/UP)** buttons.
- To register another DTS disc, repeat the procedure from step 3.



**To quit DTS DISC SKIP mode**

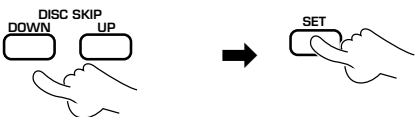
Press the **MODE** button.

## To delete the DTS registration

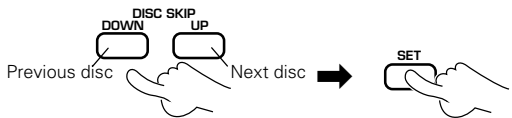
Use the following procedure before moving or changing a DTS disc, and register the disc again.

1 Perform steps 1 of "Registration of DTS discs".

2 Select "CANCEL DTS DISC".



3 Select the DTS disc to be deleted.



Each press switches the modes as follows:

- 1 SET DTS DISC
- 2 CANCEL DTS DISC



**To quit DTS DISC SKIP mode**

Press the **MODE** button.



When a DTS disc is played, the audio signal is not output at the analog OUTPUT A jacks.

# Chapter 4 : Specifying and Using Disc or Track Data

Thanks to sophisticated design and onboard memory storage, your CD changer can read and store additional information about the discs you load, enabling you to choose discs by title information rather than just disc position.

This memory feature means you don't have to remember what disc is stored in which slot or spend time creating a list of what you've loaded.

Here's how it works: every CD has an unique ID code embedded in it. The changer reads this code and associates with it any other information that it reads or that you enter for the disc. It stores the information internally so that when you load or play the disc, the changer still contains the disc and track titles (among other things).



1. Your CD changer will recall information read in at the time of registration even when the disc insertion place is changed.
2. Your changer stores this information for up to 210 discs, which allows you to rotate discs between the changer and another CD player (for example, in your car) without losing any information read.

## The CD changer can :

- read data from discs containing encoded CD Text information
- store disc and title information you enter using the 10-key remote, keyboard and LCD remote\*.
- allow you to use the read or entered data to select discs
- allow you to program disc play for custom listening order

\* VR-4900, KRF-V9993D and VR-4700 (Model available may differ depending on the country and sales area.)  
The remote control unit of these receiver models can also be used to input titles or display information such as the titles.

The changer reads any data you specify when you play the disc or when you instruct the changer to read all data.

Your CD changer includes a standard remote and a remote keyboard. You can use either device to control the changer. For the sake of simplicity, this manual provides standard remote instructions for all functions except text entry

The keyboard enables you to operate either player. To operate player A, press the keyboard buttons as normal. To operate player B, hold down ROOM B button while pressing the appropriate keyboard buttons.

## You can use this internal processing to control various features, such as :

- Playing discs of a predefined or user-specified Music Type that you can assign to each CD  
See "Listening to music by genre (MUSIC TYPE mode)" — 33
- Playing discs by selecting disc titles, either read from CD Text encoding on the CD or entered using the remote or keyboard  
See "Disc search (DISC SEARCH mode)" — 36
- Assigning Best Selection status to your favorite tracks, then playing them at any time.  
See "Listening to your favorite titles (BEST SELECTION mode)" — 38

# Registration of Title

For discs not corresponding to CD-TEXT, a title can be given to the disc (max. 25 characters). Up to 20 tracks titles can be registered per disc. Operation is possible also when the disc door is open. We recommend to register titles while discs are being inserted.

## Preparation

- Set the Player A to stop mode.
- Check that the Player A is in the normal play TRACK mode.



Although all operations can be controlled from both the 10-key Remote and Keyboard remote control units, do not change the remote control unit in the middle of operation such as character input. Otherwise, characters may not be input correctly.

## Assigning Title (TITLE INPUT mode)

### 1 Switch to title input mode.

**10-key Remote**

① Select "TITLE INPUT".

② Set the input.

**Keyboard**

Press the **TITLE INPUT** button.

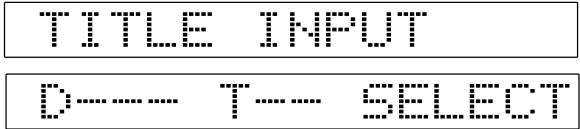
#### 10-Key Remote

- When the **MODE** button is pressed during TITLE INPUT mode, the title input mode is cancelled.

#### Keyboard

- When the **TITLE INPUT** button is pressed during TITLE INPUT mode, the title input mode is cancelled.

DISPLAY-A : The display flashes.



- To enter track titles without assigning the disc title, go to "To enter the track title".



### 2 Enter the title.

**To enter the disc title**

**10-key Remote**

① Select the disc number.

② Set the input.

③ Enter the disc title.

④ Store the disc title.

**Keyboard**

① Select the disc number.

② Set the input.

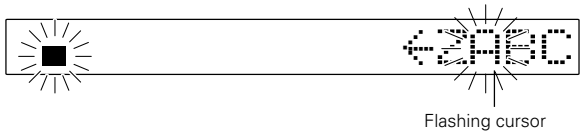
③ Enter the disc title.

④ Store the disc title.

- The disc number can be selected directly by using the numeric buttons in place of the **DISC SKIP(DOWN/UP)** buttons.
- During playback, the disc only being played can be selected.

#### 10-key Remote Main unit

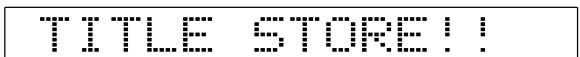
- If a desired character is not provided on the remote control buttons, input the character as follows. Press the **CHARACTER (DOWN/UP)** buttons or rotating the **DISC SKIP** knob on the main unit (provided that the **OPERATION-A** indicator is lit) until the desired character is displayed in the flashing cursor position. Then, press the **SET** button.



- One character is set and the cursor goes to the next digit.
- Repeat this to enter the disc title.



1. For discs corresponding to CD-TEXT, a new title can not be registered.
2. As the entered title and the CD-TEXT title information are memorized, the information may be displayed even when a disc has been removed.



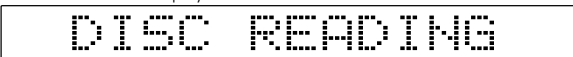
- To register the disc title of another disc, repeat the entire procedure of "To enter the disc title".

**In regard to disc information reading**

The entered title is read in to the disc with the following timing.

- When the disc door is closed.
- With closed disc door, when title input mode is finished.

DISPLAY-A : The display flashes.



When there are discs for which the disc information already has been read in, there may be no display.

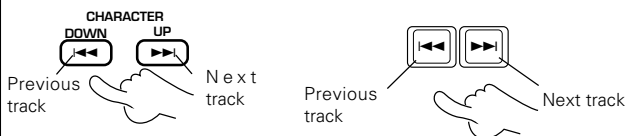
**Do not move or exchange discs until the disc information has been read in.**

**To enter the track title**

**10-key Remote**

**Keyboard**

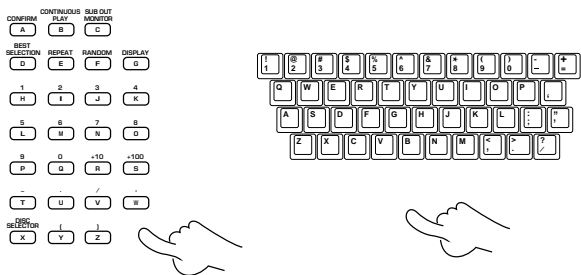
① Select the track number.



② Press the SET button.



③ Enter the track title.



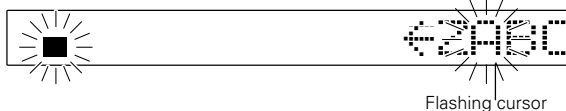
④ Store the track title.



**10-key Remote**

**Main unit**

- If a desired character is not provided on the remote control buttons, input the character as follows. Press the **CHARACTER (DOWN/UP)** buttons or rotating the **DISC SKIP** knob on the main unit (provided that the **OPERATION-A** indicator is lit) until the desired character is displayed in the flashing cursor position. Then, press the **SET** button.



- One character is set and the cursor goes to the next digit.
- Repeat this to enter the track title.



- To register another track titles in the same disc, repeat the entire procedure of "To enter the track title".
- Up to 20 track titles can be registered per disc by repeating steps from ① to ④ for each.

**To quit TITLE INPUT mode**

Press the **MODE** button.

**To change the character type**

**10-key Remote**

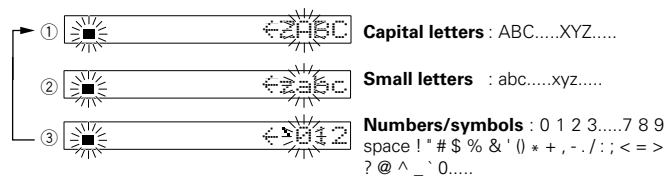
**Keyboard**



Holding this button down, press a character or numeric button.

**10-key Remote**

- The type of characters which can be entered is switched each time the **CHARAC.** button is pressed.



**Keyboard**

- To input a small (lowercase) letter or a symbol, press and hold **SHIFT** while press the desired character or numeric/symbol button.

**Preparation**

- Close the disc door.



## To change or delete a title

**1** Perform steps **1** and **2-1,2** of "Assigning Title".

- Call the disc or track to be changed.
- Deletion mode is cancelled when the **MODE** button is pressed.

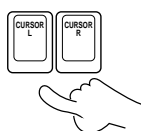
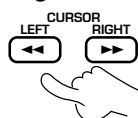
**2** Change or delete characters one by one.

**Change**

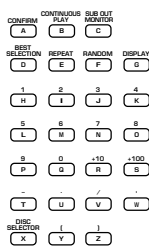
10-key Remote

Keyboard

**1** Move the cursor to the desired character (to be changed).



**2** Select a character.



**3** Delete the unnecessary character. (See "Deletion".)

DISPLAY-A



← Move with the **CURSOR** button →

- If the title to be changed is too long to be displayed on the display section, press the **CURSOR** button to scroll the display so that the characters hidden until then appear.
- No character can be changed if 25 characters have already been input. In this case, delete unnecessary characters then enter the desired correction characters.

DISPLAY-A



Flashing cursor

10-key Remote

Main unit

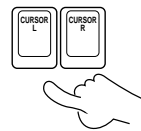
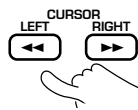
- If a desired character is not provided on the remote control buttons, input the character as follows. Press the **CHARACTER (DOWN/UP)** button or rotating the **DISC SKIP** knob on the main unit (provided that the **OPERATION-A** indicator is lit) until the desired character is displayed in the flashing cursor position. Then, press the **SET** button.

**Deletion**

10-key Remote

Keyboard

**1** Move the cursor to the desired character (to be deleted).



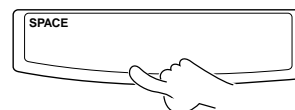
**2** Press the **DELETE** button.



**To enter a space**

10-key Remote

Keyboard



- When a title is to be deleted, delete all characters one by one.

**3** Execute title change or deletion.

10-key Remote

Keyboard



**To quit TITLE INPUT mode**  
Press the **MODE** button.



# Listening to music by genre (MUSIC TYPE mode)

Discs can be registered separately by 26 types of music genres.

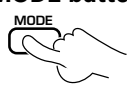
## Preparation

- Close the disc door. → 17
- Check that the Player A is in the normal play TRACK mode. → 20

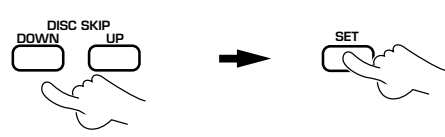
## Registration of music type (MUSIC TYPE SET mode)

### 1 Activate the music type set mode.

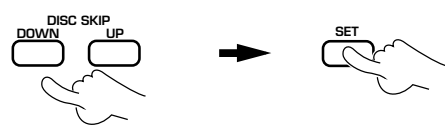
① Press the **MODE** button.



② Select "MUSIC TYPE".



③ Select "MUSIC TYPE SET".



- When the **MODE** button is pressed during MUSIC TYPE SET mode, the MUSIC TYPE SET mode is cancelled.

Each press switches the modes as follows:

- ① MUSIC TYPE
- ② DISC SEARCH
- ③ TITLE INPUT
- ④ ALL DATA READ
- ⑤ ALL INFORMATION
- ⑥ DTS DISC SKIP


DISPLAY-A : The display flashes.



DISPLAY-A : The display flashes.



### 2 Select the music type.



Previous type      Next type

Each press switches the modes as follows:

Adult Contemporary → Alternative Rock → Children's Music → Classical → Contemporary Christian → Country → Dance → Easy Listening → Folk → Gospel → Hip Hop → Jazz → Latin → Musical → New Age → Opera → Operetta → Pop Music → RAP → Reggae → Rock Music → Rhythm & Blues → Sound Effects → Sound Track → Spoken Word → World Music → Adult Contemporary → .....

DISPLAY-A : When "Rock Music" is selected




- When the selected disc corresponds to CD-TEXT and contains a genre code, that genre code is registered as the music type.

To confirm the genre code ...  
"Complete CD-Text Info"



### 3 Select the desired disc.



Previous disc      Next disc

- The disc number can be selected directly by using the numeric buttons in place of the **DISC SKIP(DOWN/UP)** buttons.
- Repeat step 3 if it is required to register another disc in the music type selected above.
- To register another music type, exit the MUSIC TYPE SET mode once and restart from the beginning.

### To quit MUSIC TYPE SET mode


Press the **MODE** button.

## Registration of user's disc file (USER FILE SET mode)

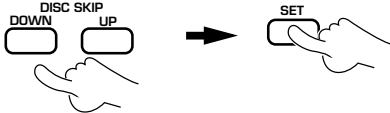
Eight user files are available for registering desired discs. This makes the user possible to create files registering the discs of a favorite artist(s) or the user's favorite discs.

### 1 Activate the user file set mode.

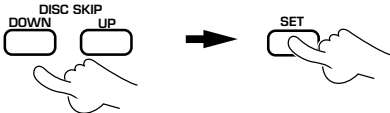
① Press the **MODE** button.



② Select "MUSIC TYPE".



③ Select "USER FILE SET".



- When the **MODE** button is pressed during USER FILE SET mode, the USER FILE SET mode is cancelled.

Each press switches the modes as follows:

- ① MUSIC TYPE
- ② DISC SEARCH
- ③ TITLE INPUT
- ④ ALL DATA READ
- ⑤ ALL INFORMATION
- ⑥ DTS DISC SKIP


DISPLAY-A : The display flashes.

MUSIC TYPE

DISPLAY-A : The display flashes.

USER FILE SET

### 2 Select the desired user file.




Previous file      Next file

Each press switches the modes as follows:

USER FILE 1 → USER FILE 2 → USER FILE 3 → USER FILE 4 →  
USER FILE 5 → USER FILE 6 → USER FILE 7 → USER FILE 8  
→ USER FILE 1 →.....

### 3 Select the desired disc.



Previous disc      Next disc

- The disc number can be selected directly by using the numeric buttons in place of the **DISC SKIP (DOWN/UP)** buttons.
- Repeat step ② if it is required to register another disc in the user file selected above.
- To register another user file, exit the USER FILE SET mode once and restart from the beginning.
- The same disc can be registered in more than one user files.
- If the **CHECK** button is pressed while the disc number is blinking, the music type of the disc is displayed provided that its music type has been registered.


#### To quit USER FILE SET mode

Press the **MODE** button.

### To clear the music type or user file registered for a disc

① Play the music type or user file. → 35

② Press the **CLEAR** button during playback of the disc to be deleted.



DISPLAY-A :

D122 TYPE CLEAR

When music types or user files have been registered for the discs, it is possible to enjoy playback of discs of the selected music type or user file. Random playback for a selected music type or user file is also possible.

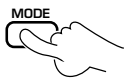
**Preparation**

- Close the disc door. → 17
- Register music type or user file. → 33 → 34
- Check that the Player A is in the normal play TRACK mode. → 20

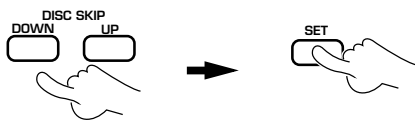
## Playing the music type or user file (MUSIC TYPE PLAY mode) (Player A only)

### 1 Activate the music type play mode.

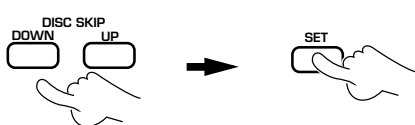
- ① Press the **MODE** button.



- ② Select "MUSIC TYPE".



- ③ Select "MUSIC TYPE PLAY".



- When the **MODE** button is pressed during MUSIC TYPE PLAY mode, the MUSIC TYPE PLAY mode is cancelled.

Each press switches the modes as follows:

- ① MUSIC TYPE
- ② DISC SEARCH
- ③ TITLE INPUT
- ④ ALL DATA READ
- ⑤ ALL INFORMATION
- ⑥ DTS DISC SKIP

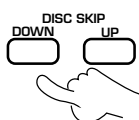
DISPLAY-A : The display flashes.

MUSIC TYPE

DISPLAY-A : The display flashes.

MUSIC TYPE PLAY

### 2 Select the music type or user file.



DISPLAY-A : When "USER FILE 1" is selected

USER FILE 1

### 3 Start playback.



- Playback is performed in increasing order of the disc numbers they were registered for the respective music type or user file. Skipping to the next disc is done when the ►► button is pressed.
- If the disc to be played is being played in Player B, the disc will be skipped.
- Each time the **CHECK** button is pressed, the registered disc numbers are displayed in increasing order of the disc numbers.

#### For repeated playback

Press the **REPEAT** button to select "REPEAT ON".

#### For random playback

Press the **RANDOM** button.

- Select "RANDOM OFF" or press ■ button to quit random playback.

#### For continuous playback

Press the **CONTINUOUS PLAY** button.

#### To quit MUSIC TYPE PLAY mode

Press the **MODE** button.

DISPLAY-A

M. TYPE MODE OFF

# Disc search (DISC SEARCH mode) (Player A only)

## Preparation

- Close the disc door. → 17
- Input the title. → 30
- Check that the Player A is in the normal play TRACK mode. → 20

Although all operations can be controlled from both the 10-key Remote and Keyboard remote control units, do not change the remote control unit in the middle of operation such as character input. Otherwise, characters may not be input correctly.

## Searching a disc by the disc title (CHARAC. SEARCH mode)

By inputting the initial letter of the desired disc title, discs which have the disc titles beginning with that character can be searched in sequence.

### 1 Activate the character search mode.

10-key Remote	Keyboard
<p>① Press the MODE button.</p>	<p>① Press the MODE button.</p>
<p>② Select "DISC SEARCH".</p>	<p>② Select "DISC SEARCH".</p>
<p>③ Select "CHARAC. SEARCH".</p>	<p>③ Select "CHARAC. SEARCH".</p>

- When the **MODE** button is pressed during CHARAC. SEARCH mode, the CHARAC. SEARCH mode is cancelled.

Each press switches the modes as follows:

- ① MUSIC TYPE
- ② DISC SEARCH
- ③ TITLE INPUT
- ④ ALL DATA READ
- ⑤ ALL INFORMATION
- ⑥ DTS DISC SKIP

DISPLAY-A : The display flashes.



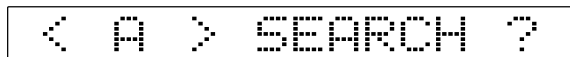
DISPLAY-A : The display flashes.



### 2 Input the initial letter of the disc title to be searched.

10-key Remote	Keyboard
<p>① Input the initial letter of the disc title to be searched.</p>	<p>① Input the initial letter of the disc title to be searched.</p>
<p>② Set the input.</p>	<p>② Set the input.</p>

DISPLAY-A : When initial letter "A" is selected.



- The initial letters of disc titles are searched insensitively to the upper-case and lowercase.
- Lowercase characters cannot be input in the CHARAC. SEARCH mode.

#### Keyboard

- To input a symbol, press and hold **SHIFT** while press the desired numeric/symbol button.

#### 10-key Remote Main unit

- If a desired character is not provided on the remote control buttons, input the character as follows. Press the **CHARACTER (DOWN/UP)** buttons or rotating the **DISC SKIP** knob on the main unit (provided that the **OPERATION-A** indicator is lit) until the desired character is displayed in the flashing cursor position. Then, press the **SET** button.
- The type of characters (capital letters or numbers/symbols) is switched each time the **CHARAC.** button is pressed.
- The disc titles beginning the specified character will be scrolled in the display.
- If there is no disc title beginning with the specified character, "**NO ENTRY**" will be displayed.

### To quit CHARAC. SEARCH mode

Press the **MODE** button.

### To search the next disc

10-key Remote	Keyboard
<p>Hand pressing DISC SKIP DOWN button on 10-key remote</p>	<p>Hand pressing DISC SKIP DOWN button on keyboard</p>

### To play the searched disc

10-key Remote	Keyboard
<p>Hand pressing SET button on 10-key remote</p>	<p>Hand pressing SET button on keyboard</p>



If the selected disc is being played on Player-B, blinking "**DISCXXX BUSY!**" is displayed and the disc will not be played.

**Preparation**

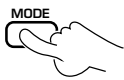
- Close the disc door. → 17
- Register music type or user file. → 33 → 34
- Check that the Player A is in the normal play TRACK mode. → 20

## Searching the music type or user file (M.TYPE SEARCH mode)

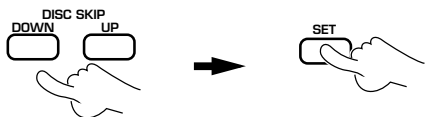
The discs registered in the specified music type or specified user file can be searched in sequence.

### 1 Activate the M.TYPE SEARCH mode.

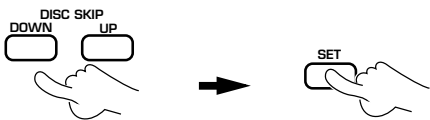
- ① Press the **MODE** button.



- ② Select "DISC SEARCH".



- ③ Select "M.TYPE SEARCH".



- When the **MODE** button is pressed during M.TYPE SEARCH mode, the M.TYPE SEARCH mode is cancelled.

Each press switches the modes as follows:

- ① MUSIC TYPE
- ② DISC SEARCH
- ③ TITLE INPUT
- ④ ALL DATA READ
- ⑤ ALL INFORMATION
- ⑥ DTS DISC SKIP

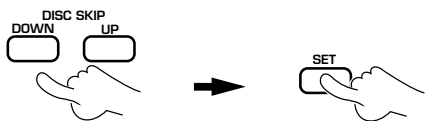
DISPLAY-A : The display flashes.

DISC SEARCH

DISPLAY-A : The display flashes.

M. TYPE SEARCH

### 2 Select the music type or user file to be searched.



Each press switches the modes as follows:

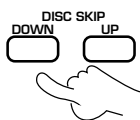
USER FILE 1 → USER FILE 2 → USER FILE 3 → USER FILE 4 →  
 USER FILE 5 → USER FILE 6 → USER FILE 7 → USER FILE 8 →  
 Adult Contemporary → Alternative Rock → Children's Music →  
 Classical → Contemporary Christian → Country → Dance →  
 Easy Listening → Folk → Gospel → Hip Hop → Jazz → Latin →  
 Musical → New Age → Opera → Operetta → Pop Music → RAP  
 → Reggae → Rock Music → Rhythm & Blues → Sound Effects  
 → Sound Track → Spoken Word → World Music →  
 USER FILE 1 → .....

- If there is no disc registered in the specified music type or user file, "NO ENTRY" will be displayed.

#### To quit M.TYPE SEARCH mode

Press the **MODE** button.

#### To search the next disc



#### To play the searched disc



If the selected disc is being played on Player-B, blinking "DISCXXX BUSY!" is displayed and the disc will not be played.

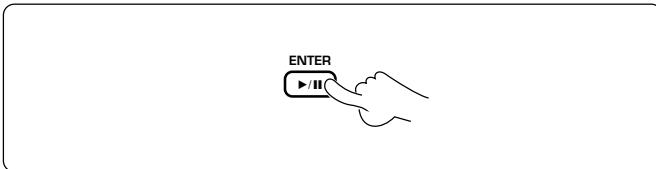
# Listening to your favorite titles (BEST SELECTION mode) (Player A only)

38

You can select only your favorite titles and register them as the best selection. Use the following procedure to register favorite tracks in the best selection file while playing a CD.

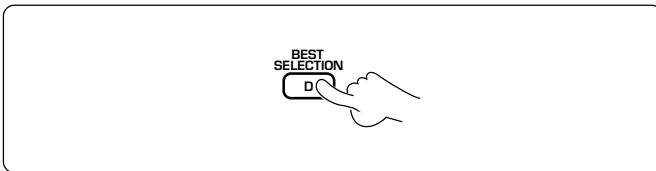
## Registration of best selection file

### 1 Play the track to be registered.



- Only the track being played can be registered.

### 2 Register it in the best selection file.



DISPLAY-A  
▶ BEST01 D104 T03

### 3 Register other favorite tracks by performing steps 1 and 2 for each of them.

- Up to 32 tracks can be registered. "FULL" is displayed when no more disc is acceptable.

## Playing the best selection file

**Preparation**

- Set the CD player to stop mode
- Check that the unit is in the normal play track mode → 20

Press the BEST SELECTION button.



DISPLAY-A  
▶ BEST SELECTION

- The tracks are played in the order they are registered.
- If a track to be played is located in the disc played on Player-B, that track will be skipped.
- Each time the CHECK button is pressed, the disc numbers and track numbers are displayed in the order they are registered.

### For repeated playback

Press the REPEAT button to select "REPEAT ON".

### For continuous playback

Press the CONTINUOUS PLAY button.

### To quit BEST SELECTION mode

Press the ■ button during playback.

- The recorded contents remain stored even when best selection mode is quit.

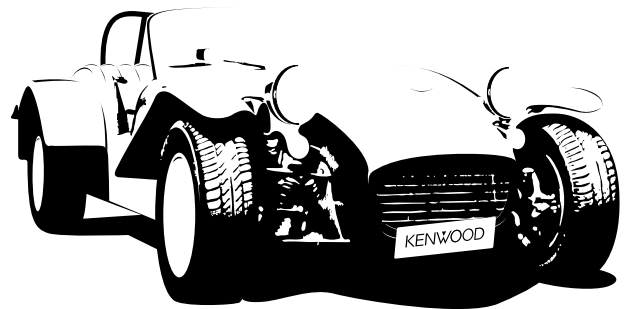
## To delete the registered best selection file

- 1 Play the track to be cleared.
- 2 Press the CLEAR button.



- This is done during best selection mode.

DISPLAY-A  
▶ BEST02 CLEAR



# Chapter 5 : Dual-Zone Capabilities

40

The CD-4900M/DPF-J9030 offers dual-zone output and control, which enables you to use the changer (along with a Kenwood Dual-Zone/Dual-Source compatible receiver) to play 2 discs simultaneously in 2 rooms (or zones). The changer can do this because it includes 2 complete CD players that can each access the full carousel of loaded discs. Each player has its own analog output jacks and cables, and the primary player (output "A") also has a digital output connection.

Not all playback features can be used by both players or zones. The following chart shows which playback features are available for each player and/or zone.

- Multi-room playback when used with a Kenwood receiver that has Dual-Zone/Dual-Source capability.

Feature	Zone A/ Player A	Zone B/ Player B
DTS playback	<input type="radio"/>	
Normal Play/Track mode	<input type="radio"/>	<input type="radio"/>
Random mode	<input type="radio"/>	<input type="radio"/>
Repeat mode	<input type="radio"/>	<input type="radio"/>
Program mode	<input type="radio"/>	
Continuous Play mode	<input type="radio"/>	
Music Type mode	<input type="radio"/>	
Best Selection mode	<input type="radio"/>	
Timed Play	<input type="radio"/>	
Remote control	<input type="radio"/>	
Infrared remote keyboard	<input type="radio"/>	<input type="radio"/> *

\* To operate the remote keyboard in Zone B, hold down **ROOM B** button while pressing the appropriate keyboard buttons for the task.



## In case of difficulty

### Operation to reset

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



Unplug the power cord from the power socket and plug the power cord into the socket again.

### To reset the registered contents










The registered contents for title, music type, user file, best selection and DTS disc can be reset by the following procedure.

Unplug the power cord from the power socket, and while holding the ■ button depressed, plug the power cord into the socket again.

### Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	<ul style="list-style-type: none"> <li>Batteries are exhausted.</li> <li>The remote control unit is too far away from the main system, controlling angle is too large, or there is an obstacle in between.</li> </ul>	<ul style="list-style-type: none"> <li>Replace with new batteries. →  9</li> <li>Operate the remote control unit within the controllable range. →  9</li> </ul>

### CD Player

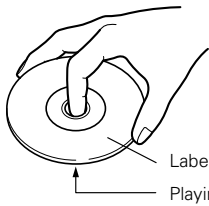
Symptom	Cause	Remedy
No power is applied with the POWER(I/⏻) key ON.	<ul style="list-style-type: none"> <li>Power plug is loosely connected.</li> <li>With the power plug connected to the switched AC outlet of an amplifier, the power of the amplifier is turned off.</li> </ul>	<ul style="list-style-type: none"> <li>Insert the power plug firmly to the AC outlet.</li> <li>Insert the power plug to the wall AC outlet.</li> </ul>
Sound is not heard with the ▶/   key on.	<ul style="list-style-type: none"> <li>Disc is loose.</li> <li>Condensation occurred on the optical lens unit.</li> <li>Disc is too dirty.</li> <li>Disc is cracked.</li> <li>The connection cords are inserted loosely.</li> </ul>	<ul style="list-style-type: none"> <li>Insert disc properly. →  17</li> <li>Leave the player for about 1 hour so that the condensation is removed. →  42</li> <li>Wipe off the dust on the disc surface referring to "Disc handling precautions". →  42</li> <li>Replace the disc with a new one.</li> <li>Connect all connection cords firmly. →  6</li> </ul>
Music is interrupted. (Sound is skipped.)	<ul style="list-style-type: none"> <li>Disc is too dirty.</li> <li>Disc is cracked.</li> <li>Oscillation is applied to this unit.</li> </ul>	<ul style="list-style-type: none"> <li>Wipe off the dust on the disc surface referring to "Disc handling precautions". →  42</li> <li>Replace the disc with a new one.</li> <li>Try selecting a place where no strong vibrations occur by changing the installation place, etc.</li> </ul>
Disc selection is not possible.	<ul style="list-style-type: none"> <li>RANDOM or BEST SELECTION mode is selected.</li> <li>MUSIC TYPE PLAY mode is selected.</li> </ul>	<ul style="list-style-type: none"> <li>Press the ■ key to quit RANDOM, BEST SELECTION mode. →  23 →  38</li> <li>Press the MODE button to quit MUSIC TYPE PLAY mode. →  35</li> </ul>
Disc begins to play when power is switched ON.	<ul style="list-style-type: none"> <li>The TIMER PLAY switch is set to ON.</li> </ul>	<ul style="list-style-type: none"> <li>Set the TIMER PLAY switch to OFF unless timer playback is required. →  27</li> </ul>

### When "REMOVE DISC XXX" is displayed:

A CD is inserted in the slot with the same disc number as the CD being loaded.

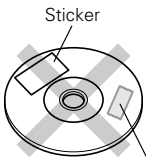
It is not permitted to insert another disc in a slot from which the CD has been loaded. Remove the inserted disc and insert it in an idle slot.

## Disc handling precautions

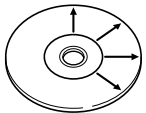


### Handling

Hold the discs so that you do not touch the playing surface.



Do not attach paper or tape to either the playing side or the label side of the discs.



### Cleaning


If fingerprints or foreign 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 player and store it in its case.

## Discs which can be played with this unit

CD (12 cm), and the audio part of CDV, CD-G, CD-EG and CD-EXTRA.

Use discs that comply with the IEC standard, for example a disc carrying the  marking on the label surface.

- An 8 cm CD cannot be played back.

## Never play a cracked or warped disc

During playback, the disc rotates at high speed in the player.

Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent.

Please do not use discs which are not round because they may cause a malfunction.

## Disc accessories

The disc 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 because they may cause malfunction.

## Maintenance of the unit

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

## 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 operation after the condensation has dried up.

Be specially cautious against condensation in a following circumstance:  
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.

## In regard to 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.

## Note related to transportation and movement

Before transporting or moving this unit, carry out the following operation:

1. Remove all discs from the carousel and close the disc door.
2. Confirm that the flashing "NO DISC" display has changed to steady lighting, and then switch off the power.

DISPLAY-A and DISPLAY-B



3. Wait a few seconds, then disconnect the power plug.

## Memory backup function

Stored contents for at least 3 weeks after power plug is unplugged from the AC outlet.

Power status (ON or OFF),  
Title registration contents  
Music type registration contents  
User file registration contents  
Best selection registration contents  
DTS registration contents

## Warnings

### For the U.S.A.

#### FCC WARNING

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

#### NOTE :

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

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

### For the U.S.A.

#### 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  
2967-3, ISHIKAWA-CHO, HACHIOJI-SHI,  
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO DHHS REGULATIONS NO. 21 CFR 1040.10, CHAPTER 1, SUBCHAPTER J.

Location: Back Panel

## Specifications

#### [Format]

System ..... Compact disc digital audio system  
Laser ..... Semiconductor laser

#### [D/A Convertors]

D/A Conversion ..... 1 Bit  
Oversampling ..... 8 fs (352.8 kHz)

#### [Audio]

Frequency response ..... 4 Hz ~ 20 kHz, ± 0.5 dB  
Signal to noise ratio ..... More than 97 dB  
Dynamic range ..... More than 94 dB  
Total harmonic distortion + noise  
..... Less than 0.005% (at 1 kHz)  
Channel separation ..... More than 92 dB (at 1 kHz)  
Wow & flutter ..... Unmeasurable Limit  
Output level/impedance  
Fixed ..... 2.0 V/0.9 kΩ  
Digital output  
Optical ..... -15 dBm ~ -21 dBm (Wave length 660 nm)

#### [Laser]

Wave length ..... 760 ~ 800 nm  
Laser power class ..... Class 1 (IEC)

#### [General]

Power consumption ..... 14 W  
Dimensions  
W : 481 mm (18-15/16")  
H : 163 mm (6-7/16")  
D : 484 mm (19-1/16")  
Weight (Net) ..... 11 kg (24.3 lb)



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

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# KENWOOD

***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.

Model \_\_\_\_\_ Serial Number \_\_\_\_\_

## Free Manuals Download Website

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