

KENWOOD

CD PLAYER

DP-5090

DP-4090

INSTRUCTION MANUAL

KENWOOD CORPORATION

This instruction manual is used for two models.
Model availability and features (functions) may differ
depending on the country and sales area.



B60-3043-00 (MA) (T, M) (ID)
98/12 11 10 9 8 7 6 5 4 3 2 1 97/12 11 10 9 8 7 6 5

Introduction

DP-5090/4090 (En)

2

Before applying power **Caution : Read this section carefully to ensure safe operation.**

Units are designed for operation as follows.

U.S.A. and Canada **AC 120 V only**
Australia **AC 240 V only**

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

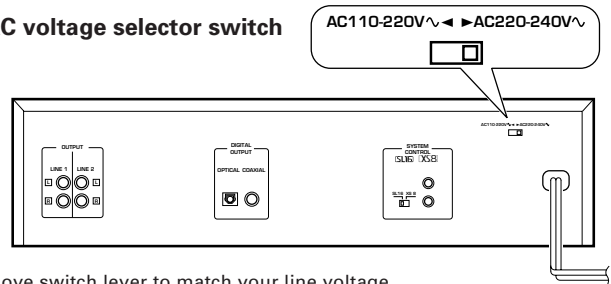
*AC voltage selection

The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Note:

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

AC voltage selector switch



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

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

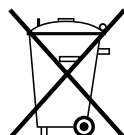
 **Caution : Read this section carefully to ensure safe operation.**

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

	CAUTION 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.		

REQUIREMENT BY NEDERLAND GAZETTE

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



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

**CLASS 1
LASER PRODUCT**

The marking is located on the rear panel and says that the 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.

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

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

Keep this manual handy for future reference.

Special features

CD-TEXT support

- The text information (disc title, track titles, names of the artists, songwriters, composers, etc.) recorded on the CDs can be easily called and displayed in alphanumerics. (Some Japanese words and text may not be displayed.) → 12 → 13

Advanced technologies incorporated in pursuit of improved sound quality and stability

- D.R.I.V.E. (Dynamic Resolution Intensive Vector Enhancement) IC is built in for drastic reduction of distortion at small signal level.
- High-performance new D/A converter achieving a 24-bit resolution. (DP-5090 only)

Convenient features for dubbing CD onto tape

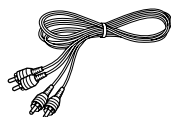
- CD peak search for setting the recording level that does not cause distortion. → 19
- Edit function for rearranging tracks according to the tape length so that no music is interrupted in the middle. → 18
- Auto space function. → 15

Easy operation functions

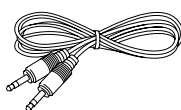
- Easy operation functions allow systematic operation with other KENWOOD components connected through the system control connection. → 6

Accessories

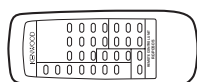
Audio cord (1)



System control cord (1)



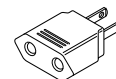
Remote control unit (1)



Batteries (R6/AA) (2)





AC plug adaptor (1)



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

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

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System connections

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Caution:

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

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". → 21

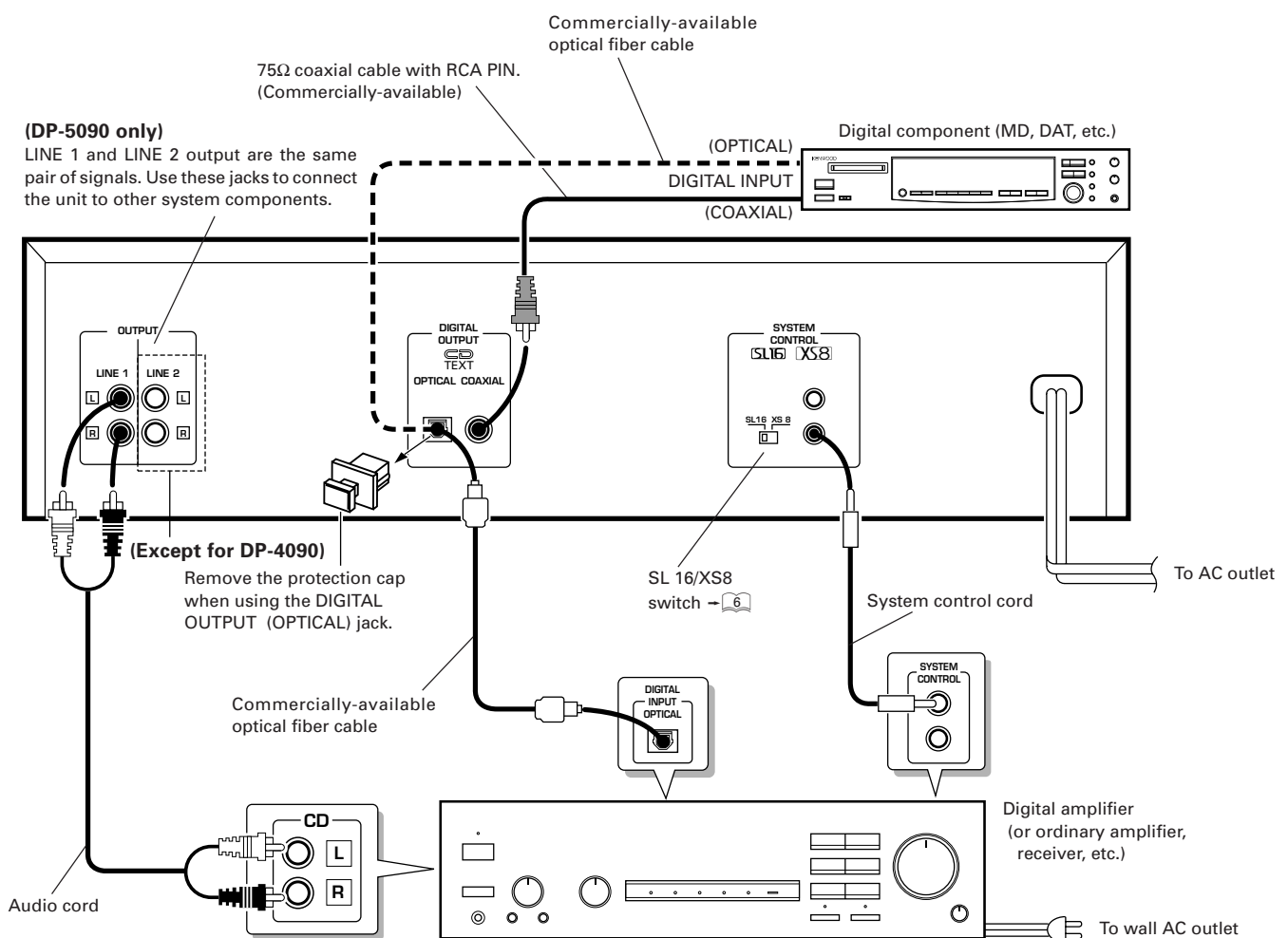
Make connections as shown below.

When connecting the related system components, refer also to the instruction manuals of the related components.

Caution regarding placement

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

Left and right panels: 10 cm Rear panel: 10 cm



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

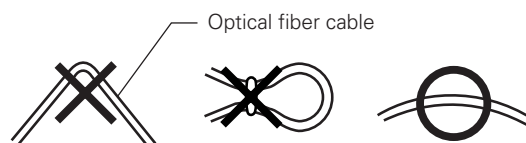
Connection to a general-use amplifier

Use the provided audio cords to connect the OUTPUT jacks of this unit to the CD input jacks (or AUX jacks) of the amplifier.

Connection to digital amplifier or MD

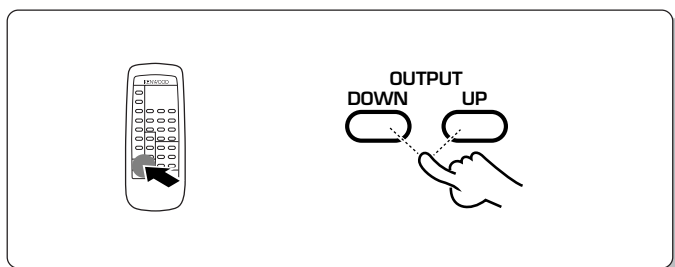
Connect the DIGITAL OUTPUT (OPTICAL or COAXIAL) jack to the digital input jack of the amplifier, DAT recorder, MD recorder, etc., using an optical fiber cable or coaxial cable which are commercially available in audio stores.

- When using an optical fiber cable to connect this unit to a digital amplifier, insert the plug straight into the jack until a snap sound is heard.
- Be careful not to bend, coil, or bundle the optical fiber cable.
- Optical fiber cables available on the market may not always be able to be used with this player. If your cord cannot be used with this unit, consult the store from which you purchased the cord or your nearest dealer.



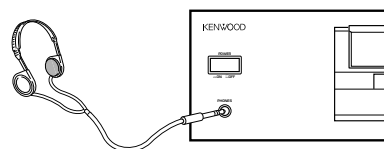
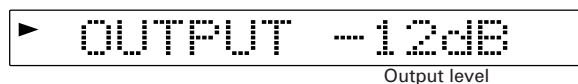
Adjusting the output levels of the output jacks and headphone output

The OUTPUT level (UP/DOWN) keys of the remote control unit can adjust the output levels from the LINE/OUT and PHONES jacks of the unit.



To use the headphone

Connect a stereo headphone to the PHONES jack of the CD player. Adjust the sound volume using the remote control unit.



- It is not favorable for the sound quality to decrease the output level from this unit too much. Use these keys for coordination with other line levels.
- Adjusting the headphone output level also changes the LINE/OUT level. Do not adjust the output level from this unit particularly during recording.

SYSTEM CONTROL CONNECTIONS

Connecting system control cords after connecting a KENWOOD audio component system lets you take advantage of convenient system control operations.

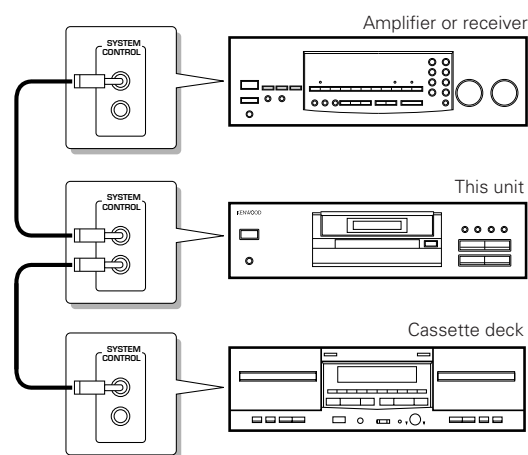
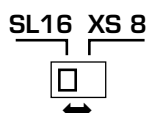
There are two KENWOOD system control modes. Make connections according to the groups of terminal symbols shown below.

[XS8] Mode : lets you combine [XR], [XS], and [XS8] terminals

[SL16] Mode : for [SL16] terminals only

This unit is compatible with both [XS8] and [SL16] modes.

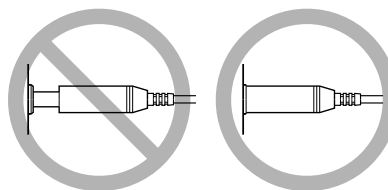
Select the mode according to the connected components. — 4



- Do this operation after completing all connections. (Ensure that the power is OFF.)



1. If your amplifier or receiver does not have a system control terminal, do not connect any system control cords to the system control terminals on the other components.
2. Do not connect system control cords to any components other than those specified by KENWOOD. It may cause a malfunction and damage your equipment.
3. Be sure the system control plugs are inserted all the way in to the system control terminals.



SYSTEM CONTROL OPERATIONS

Remote Control

Lets you operate this unit with the system remote control unit supplied with the amplifier or receiver.

Automatic Operation (Except [XR] equipment)

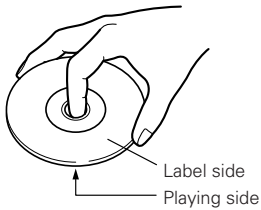
Automatically switches the input selector on the amplifier or receiver when you start playback from this unit.

Synchronized Recording (Except [XR] equipment)

Lets you synchronize recording with the start of playback when recording from CD. Also, the simple CCRS operation lets you make great recordings from CD.

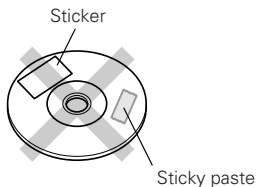
See the operating instructions supplied with your cassette deck for details.

Disc handling precautions

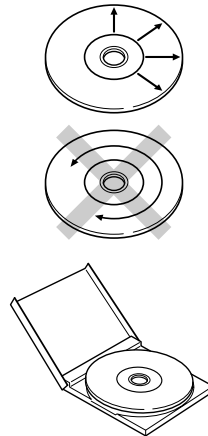


Handling

Hold compact 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 compact discs.
- The paste left on the label surface after a sticker has been peeled off is a factor which may cause malfunction. If the surface is sticky due to remaining paste, be sure to clean it with alcohol before use.



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 CD player and store it in its case.

Caution on disc used



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.

Do not use cleaning discs.

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

Discs which can be played with this unit

CD (12 cm, 8 cm) (CD-TEXT support), CDV (only the audio part)

- With CD-G (CD Graphics) discs, this unit can play only the audio.

Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzene, etc. to clean the cabinet. Use a clean dry cloth.

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

CD accessories

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

Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Note related to transportation and movement

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

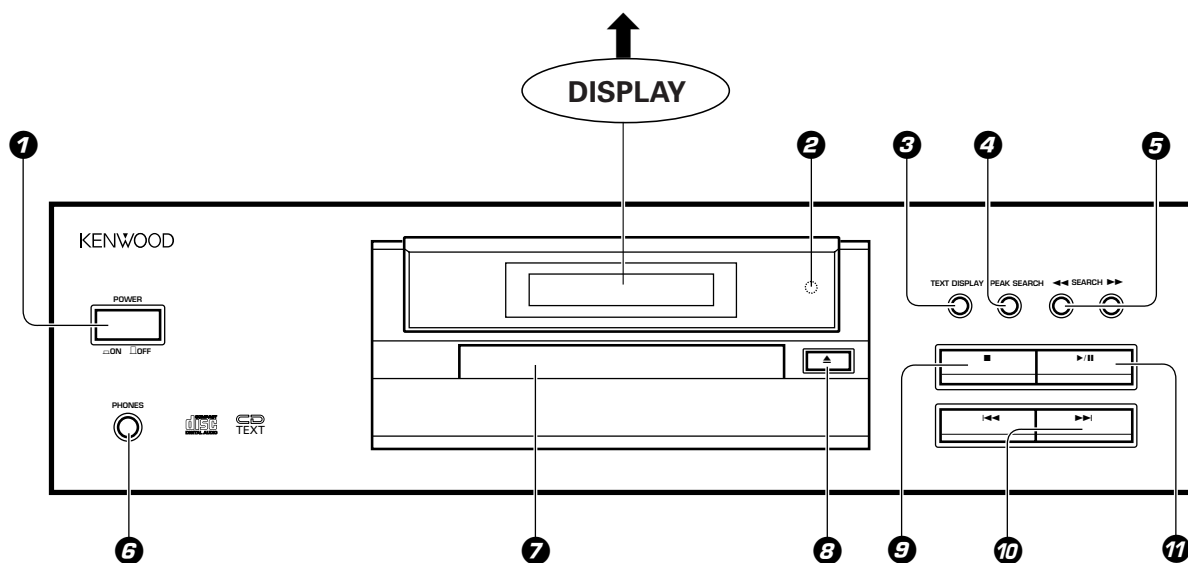
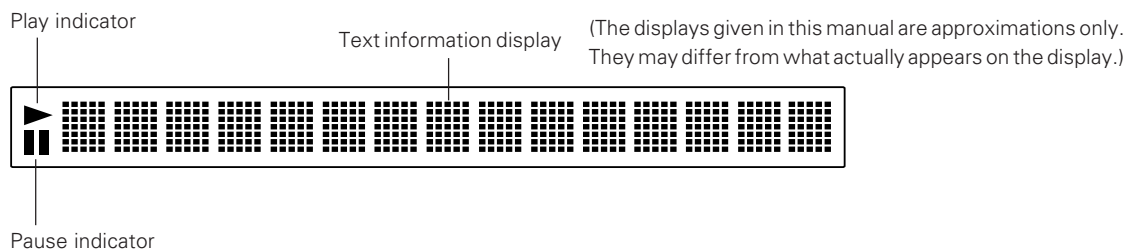
1. Turn the power ON but do not load a disc.
2. Verify that the display shown appears.



3. Wait a few seconds and turn the power OFF.

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

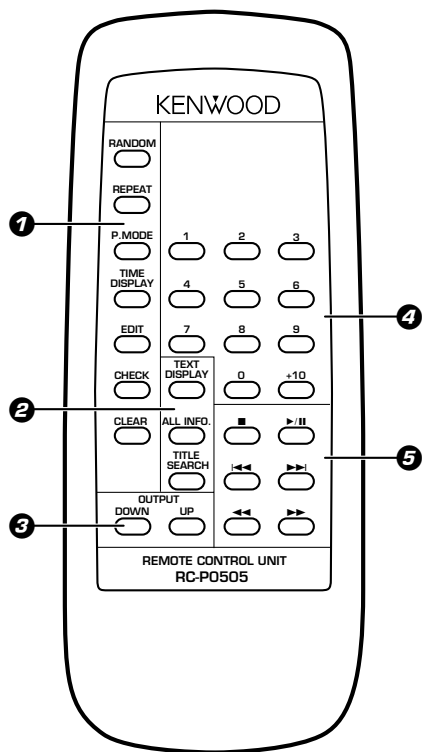


The keys with the same name as those on the remote control unit operate the same way as the remote control unit.

- | | | | |
|--|------|--|------|
| <p>1 POWER switch
Turns the power ON/OFF.</p> | → 10 | <p>6 PHONES jack
Use to connect (optional) headphones.</p> | → 5 |
| <p>2 Remote control light sensor</p> | → 9 | <p>7 Door (disc tray)
Load the disc to be played back.</p> | → 10 |
| <p>3 TEXT DISPLAY key
Used to select the CD-TEXT information display.</p> | → 13 | <p>8 Open/Close key (▲)
Opens and closes the door (disc tray).</p> | → 10 |
| <p>4 PEAK SEARCH key</p> | → 19 | <p>9 STOP key (■)</p> | → 10 |
| <p>5 Search keys (◀◀, ▶▶)
Fast forwards or fast reverses the track.</p> | → 11 | <p>10 Skip keys (◀◀, ▶▶)
Press to skip to the beginning of another track.</p> | → 11 |
| | | <p>11 PLAY/PAUSE key (▶/)
Each time the key is pressed, playback and pause switch each other.</p> | → 10 |

Operation of remote control unit

DP-5090/4090 (En)



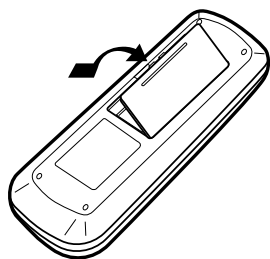
The keys with the same name as those on the main unit operate the same way as the main unit. The keys marked * are provided only on the remote control unit.

1 Program-related and other keys * RANDOM key → 17 * REPEAT key → 16 * P.MODE key → 14 * TIME DISPLAY key → 13 * EDIT key → 18 * CHECK key → 15 → 19 * CLEAR key → 15 → 19	* 2 OUTPUT (DOWN, UP) key → 5 * 3 Numeric keys ([1 ~ 0] , [+10]) → 11
2 Selector keys relating to text information TEXT DISPLAY key → 13 * ALL INFO. key → 13 * TITLE SEARCH key → 12	5 Basic function keys Stop key (■) → 10 Play/Pause key (▶/⏸) → 10 Skip (◀◀, ▶▶) keys → 11 Search keys (◀◀, ▶▶) → 11

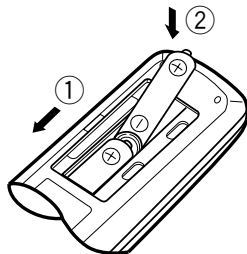
Model: RC-P0505
Infrared ray system

Loading batteries

1 Remove the cover.

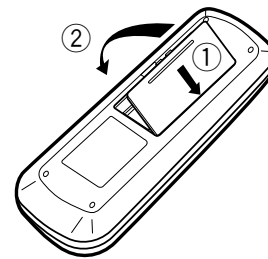


2 Insert batteries.



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

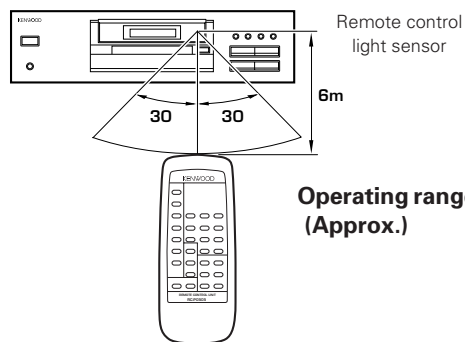
3 Close the cover.



Operation

After plugging in the power cord, press the POWER switch of the main unit to turn the power ON. When the power is turned ON, press the key of the function to be operated.

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



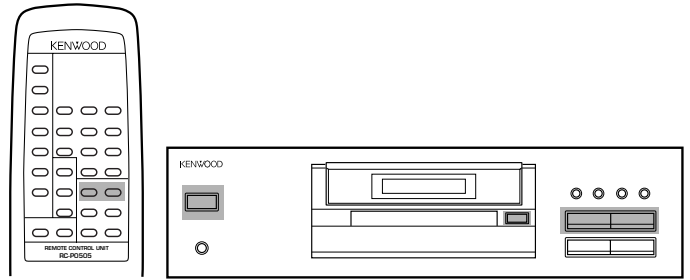
1. The supplied batteries are intended for use in operation checks. Therefore, their lives may be shorter than ordinary batteries.
2. When the remote-controllable distance gets shorter than before, replace both batteries with new ones.
3. Malfunction may occur if direct sunlight or the light of a high-frequency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


Normal play (TRACK mode)

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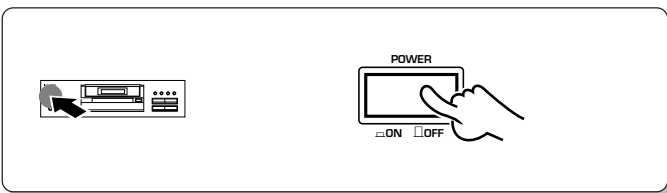
Use the following procedure to play a CD in the original order of tracks from track No. 1.



 : Keys and control used in the operations described on this page.

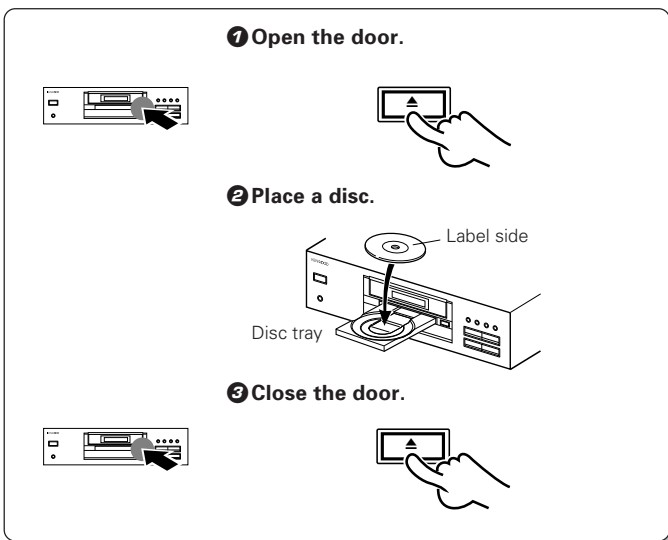
Playing tracks in order from track No. 1

1 Press the POWER switch to ON.



- Playback starts when a disc has been loaded.

2 Load a disc.

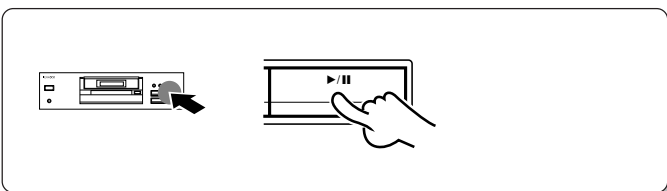


- Do not touch the played side of disc.
- Loading two discs together will cause malfunctioning.
- Place the disc properly along the groove on the tray. (If the disc is not placed horizontally, malfunction will result.)
- A single CD (8 cm disc) can also be played.
- Ordinary CD single (8 cm) disc adapters sold in audio stores cannot be used with this unit.



- In the case of a CD-TEXT disc, the disc's title is scrolled on the display.

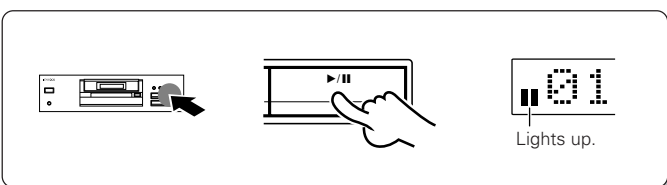
3 Start playback.



- In the case of a CD-TEXT disc, the track's title is scrolled on the display. What is then displayed is in accordance with the **TEXT DISPLAY** mode.

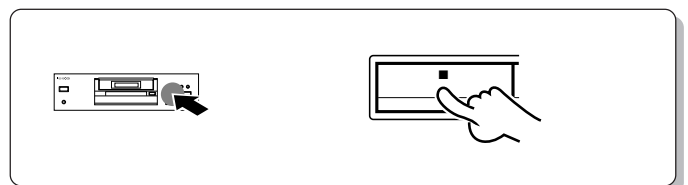
→ 13

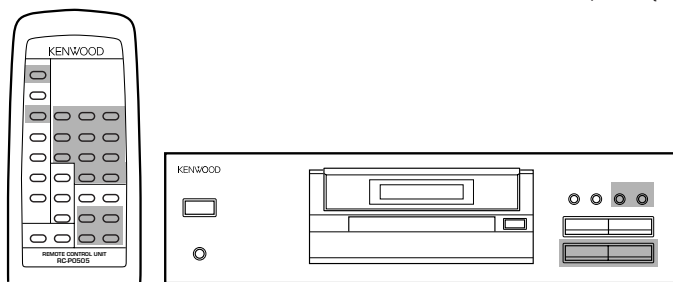
To pause playback



- Each press pauses and plays the CD alternately.

To stop playback





: Keys and control used in the operations described on this page.

Playback from desired track Remote control unit only

Select the desired track No.

1	2	3
4	5	6
7	8	9
0	+10	

Press the numeric keys as shown below....

To enter track No. 23 : **+10 +10 3**
 To enter track No. 40 : **+10 +10 +10 +10 0**

- Playback starts from the selected track and continues on the subsequent tracks.

Skipping tracks

To skip backward
To skip forward

- The track in the direction of the pressed key is skipped, and the selected track will be played from the beginning.
- When the key is pressed once during playback, the track being played will be played from the beginning.

Searching

Backward search
Forward search

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

What is the "normal play TRACK mode"?

The normal play TRACK mode refers to the state in which the PGM, EDIT and RANDOM mode displays are off.

To set the unit to the TRACK mode:

Press the **P.MODE** key when the "PGM" or "EDIT" display is lighted.
 Press the **RANDOM** key when the "RNDM" display is lighted.



P.MODE



RANDOM

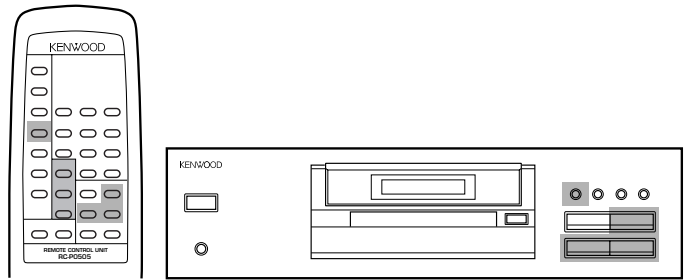



Searching for tracks by title (TITLE SEARCH)

In the case of a CD-TEXT disc, the tracks to be heard can be searched by title.

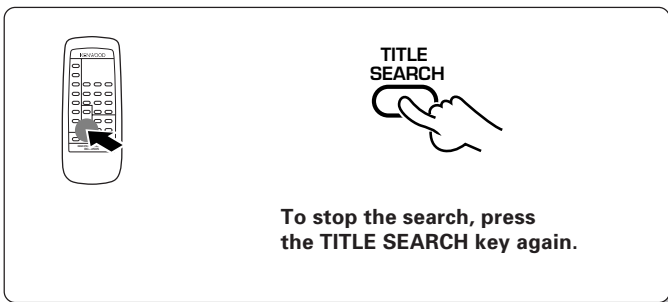
Preparation

- Load a disc (CD-TEXT support) in the CD player.
- Check that the unit is in the normal play TRACK mode.



 : Keys and control used in the operations described on this page.

1 Press the TITLE SEARCH key.



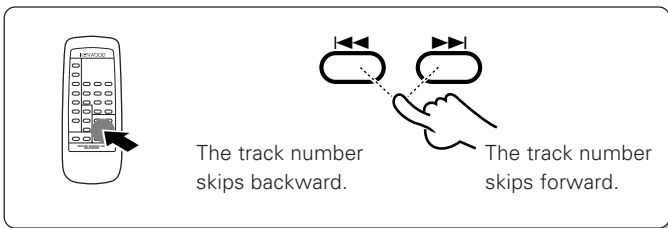
TITLE SEARCH

To stop the search, press the TITLE SEARCH key again.



- In the case of a non-CD-TEXT disc, the "NO CD TEXT" display will appear for approx. 3 seconds.

2 Select the name of the track (title) to be heard.



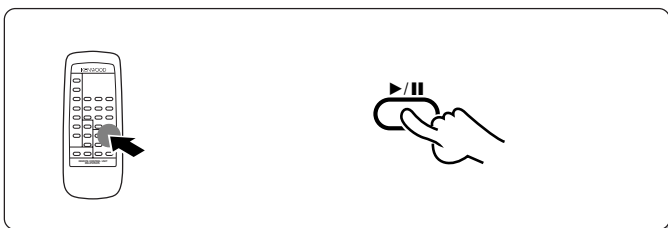
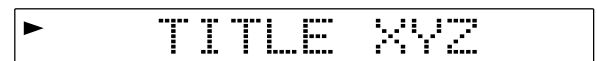
The track number skips backward.

The track number skips forward.



If no keys are operated for more than a second, the track title is scrolled on the display.

3 Start playback.

← The letters move toward the left.



Track NO. being played

Elapsed time of track being played

- What is displayed will differ depending on the item which has been selected by TEXT DISPLAY.

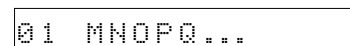
Display scrolling

Some track titles contain so much text information that the full titles will not fit on the display. In cases like this, the letters on the display move from right to left so that the non-visible part of the title is revealed. This type of display movement is known as "scrolling display."

Display example

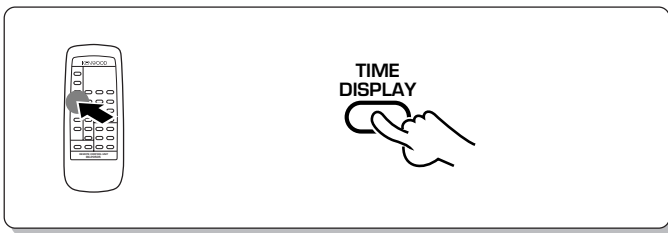


← Scroll display



Time display on CD player (TIME DISPLAY) Remote control unit only

Each press of the TIME DISPLAY key changes the displayed contents.

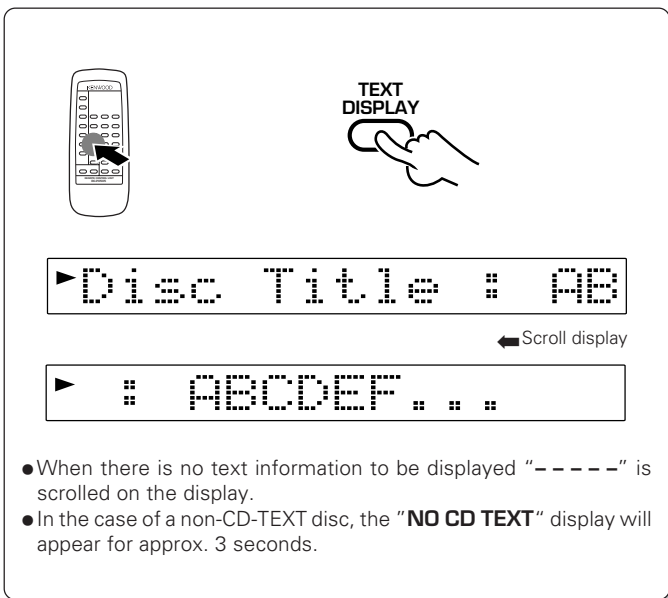


- ① 1:23 : Elapsed time of track being played
- ② -2:37 : Remaining time of track being played
- ③ 23:45T : Elapsed time of entire disc (T lights up.)
- ④ -36:25T : Remaining time on entire disc (T lights up.)

● Only the display ① and ② will be displayed in RANDOM and EDIT modes.

Selecting the text information display (TEXT DISPLAY)

In the case of a CD-TEXT disc, the displays shown below can be selected.



In the stop mode

When the key is pressed once, the ① "Disc Title" is scrolled on the display; when it is pressed repeatedly, the display is changed. (In the PGM mode, the displays are the same as for play mode.)

- ① Disc Title : Disc title
- ② Disc Artist : Singer (or performer)
- ③ TIME : Track number, time display

● If the key is released while ② "Disc Artist" is displayed, ① "Disc Title" returns to the display.

In the play mode

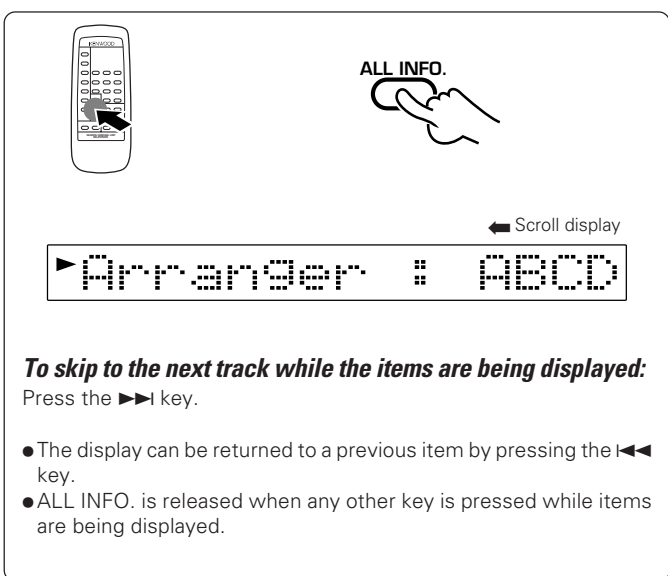
When the key is pressed once, the ① "Track Title" is scrolled on the display; when it is pressed repeatedly, the display is changed. (This operation can be performed even when operation has stopped in the PGM mode.)

- ① Track Title : Track title
- ② Track Artist : Singer (or performer)
- ③ Disc Title : Disc title
- ④ Disc Artist : Singer (or performer)
- ⑤ TIME : Track number, time display

● If the key is released at any point while ② "Track Artist" to ④ "Disc Artist" is displayed, ① "Track Title" returns to the display.

Displaying all the text information (ALL INFO.) Remote control unit only

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



Each item is displayed in turn each time the key is pressed. When the key is repeatedly pressed while an item is being displayed, the display is forcibly moved to the next item.

- ① Disc/Track Title : Disc and track titles
- ② Disc/Track Artist : Singer (or performer)
- ③ Disc/Track Songwriter : Songwriter
- ④ Disc/Track Composer : Composer
- ⑤ Disc/Track Arranger : Arranger
- ⑥ Disc/Track Message : Message from sponsor or artist
- ⑦ ID INFO. : Record company, release date, etc.
- ⑧ Genre INFO. : Genre information
- ⑨ ALL INFO. END : (Release)

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

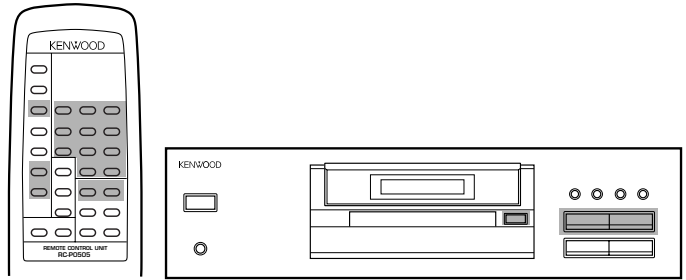
● When there is no text information to be displayed "-----" is scrolled on the display.


● In the case of a non-CD-TEXT disc, the "NO CD TEXT" display will appear for approx. 3 seconds.

Programmed play (PGM mode)

Use the following procedure to program desired tracks in a desired order. (up to 32 tracks)


Preparation • Load a disc in the CD player.




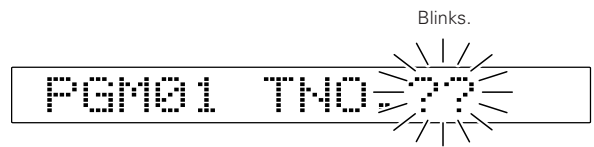
 : Keys and control used in the operations described on this page.

1 Press so that the "PGM" indicator lights.

Do this operation in the stop mode.



P.MODE


2 Program desired tracks.

1 Select the desired track No.
Press the numeric keys as shown below....
To enter track No. 25: **+10** **+10** **5**


1	2	3
4	5	6
7	8	9
0	+10	

Go to step **2** within 8 seconds.

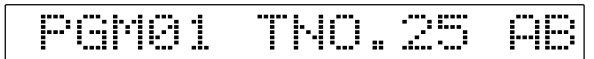
2 Set the entry.



P.MODE



3 Repeat steps 1 and 2 above.





In the case of a CD-TEXT disc, the track's title is scrolled on the display.





- Tracks can also be selected by pressing the **◀** or **▶** key.
- Up to 32 tracks can be programmed. When "FULL" is displayed, no more tracks can be programmed.
- If you make a mistake, press the **CLEAR** key and enter the track No. from the beginning.
- When the total playing time of the programmed tracks exceeds 100 minutes, the remaining time on the disc will not be displayed any more.

3 Start playback.

- When the **◀** or **▶** key is pressed during playback, the track will be skipped in the direction of the pressed button.
- When the **◀** key is pressed once during playback, the play position returns to the beginning of the current track being played.

To stop playback

- The programmed contents remain in memory.

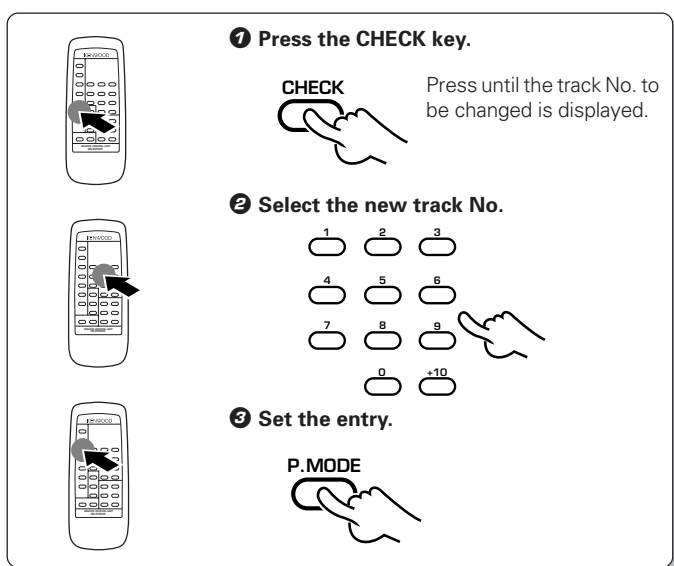
Auto space function

During programming of tracks, a non-recorded space of a few seconds will be automatically created between tracks. By recording tracks with these spaces on tape, the search and repeat play operations of tape using the DPSS function (which works by searching the non-recorded spaces) can be performed reliably.

- Even when the performances of two tracks are continuous (which occurs with classical or live recording music), the spaces will be created if they have different track Nos.

To check or change the programmed tracks

Remote control unit only

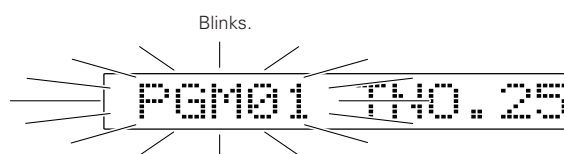


1 Press the CHECK key.
CHECK Press until the track No. to be changed is displayed.

2 Select the new track No.

1	2	3
4	5	6
7	8	9
0	+10	

3 Set the entry.
P.MODE



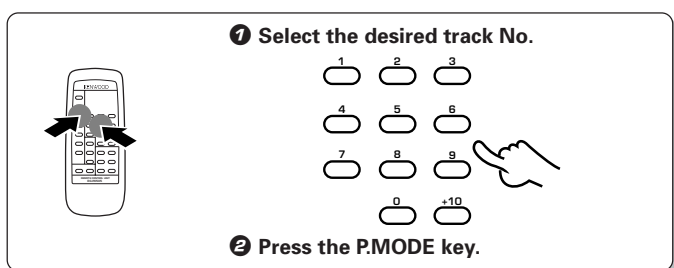
- Perform only step 1 to simply check the program.
- In the case of a CD-TEXT disc, the track's title is scrolled on the display.
- Each time the key is pressed, the program No. and the track No. on CD are displayed.

Example

- Press it while the "PGM 01" indicator blinks.
- The track being played cannot be changed.

To add a track to the program

Remote control unit only



1 Select the desired track No.

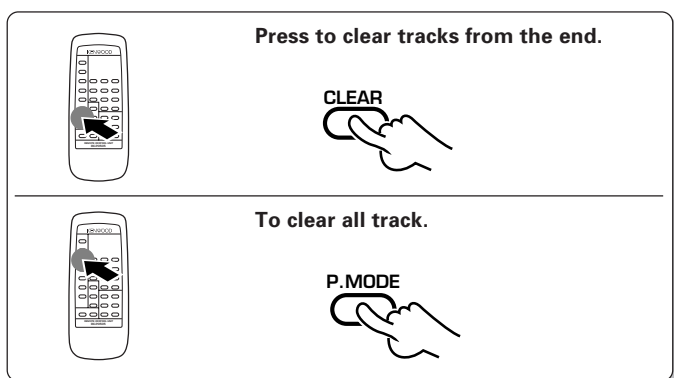
1	2	3
4	5	6
7	8	9
0	+10	

2 Press the P.MODE key.

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

To clear tracks from the program

Remote control unit only



Press to clear tracks from the end.
CLEAR

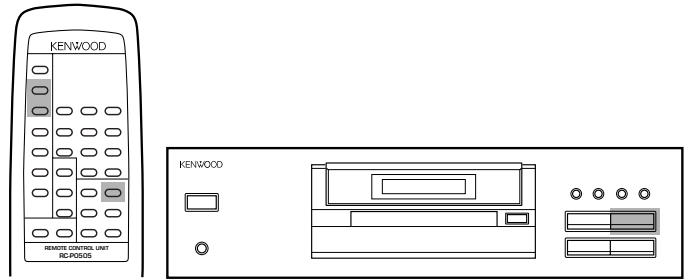
To clear all track.
P.MODE


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

- Selected tracks can be also completely cleared just by operating the ▲ key.
- The entire program is cleared.

Repeated playback

Preparation • Load a disc in the CD player.



 : Keys and control used in the operations described on this page.

To repeat only the programmed tracks

1 Program desired tracks.

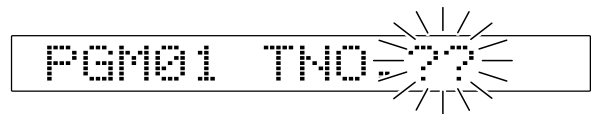
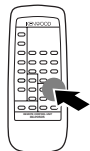
(Perform steps **1** and **2** on page 14.)

2 Switch REPEAT ON.



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

3 Start playback.



- All of the programmed tracks will be repeated.
- In case only one track is programmed, only that track will be repeated.
- Up to 32 tracks can be programmed. When "FULL" is displayed, no more tracks can be programmed.



To cancel repeated playback

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

To repeat the entire disc

1 Press so that the "PGM" indicator goes off.



2 Switch REPEAT ON.



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

3 Start playback.



To cancel repeated playback

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

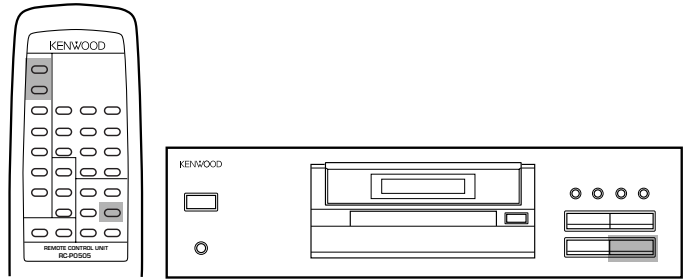
Playback in a random order (Random playback)


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As tracks are selected at random, you can enjoy listening to for a long time.

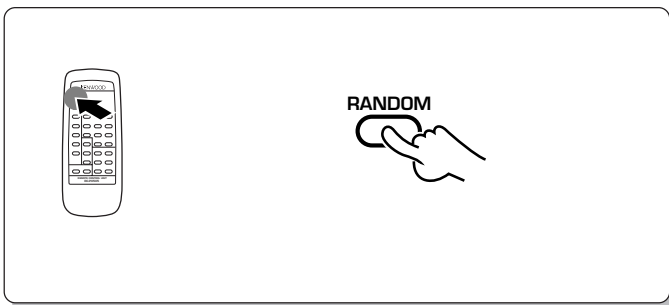
Preparation • Load a disc in the CD player.



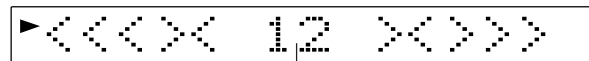
 : Keys and control used in the operations described on this page.

1 Check that the unit is in the normal play **TRACK** mode. 

2 Press the **RANDOM** key.



During track selection: ">" and "<" move from the outside to the inside.



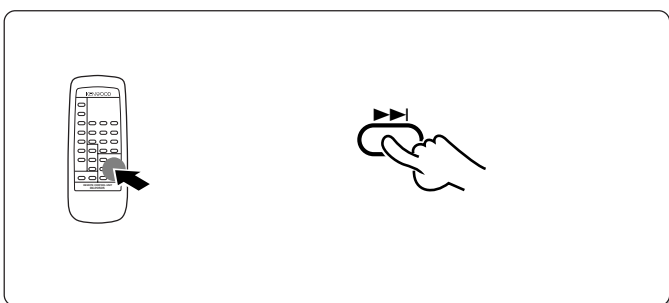
↓ The number here changes.



In case track No. 5 is selected

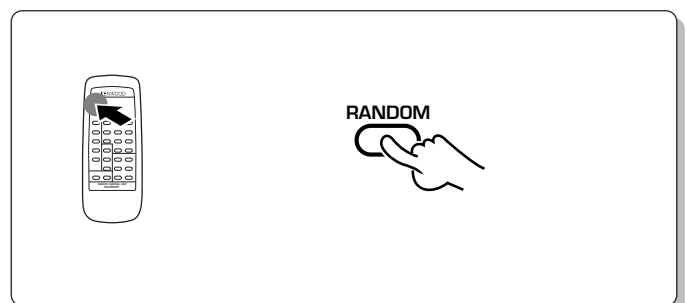
- Each time a track ends, the same operation as above is repeated, and the track selected next is played.
- Random play stops after all of the tunes have been played once.
- The random playback can also be repeated by pressing the **REPEAT** key.

To select another track in the middle of playing one



- Pressing the **⏮** key once returns to the beginning of the track being played.

To cancel random playback

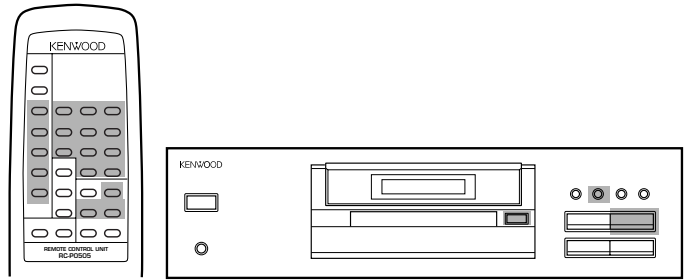



- Press the **RANDOM** key to start normal playback.

The following procedure allows to record a CD within the specified tape length so that no music is interrupted in the middle at the ends of sides A and B.

Preparation

- Load a disc in the CD player.
- Check that the unit is in the normal play TRACK mode. → 11



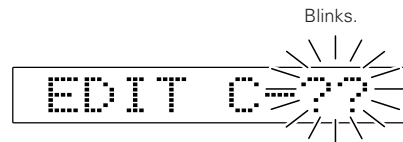
 : Keys and control used in the operations described on this page.

1 Light the "EDIT" indicator.

Do this operation in the stop mode.

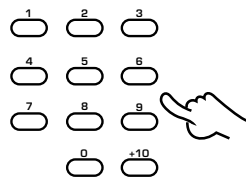


Go to step 2 within 8 seconds. If more than 8 seconds have elapsed, press the key again.



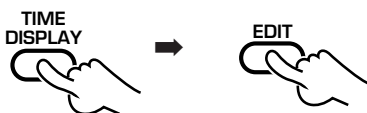
2 Enter the recording time of the tape.

When using the numeric keys:








When using the TIME DISPLAY key:

- 1 Select the time.
- 2 Set the entry.



Press the numeric keys as shown below.



30-minute tape :    

46-minute tape :     



- Recording within 99 minutes can be specified in minutes (2 digits).
- If you commit a mistake in time entry, press the P.MODE key and restart the procedure from the beginning.

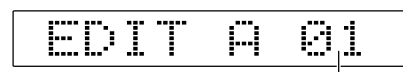
- By pressing the TIME DISPLAY key the set time-length intervals will change in this order: "46→54→60→74→90→??"

- The interval length can be adjusted with the skip keys  and  in units of one minute (to a maximum of 99 minutes).

The CD contents are edited as follows.

- (1) The tape recording time input is divided by two, and tracks that can be accommodated in file A (which refers to tracks on tape side A) are selected in order of their track Nos.
- (2) In a few seconds, the time left on tape side A is displayed, then file B (tracks on tape side B) is edited in the same manner.

Editing in the FILE A



The selected track numbers are displayed in sequence.

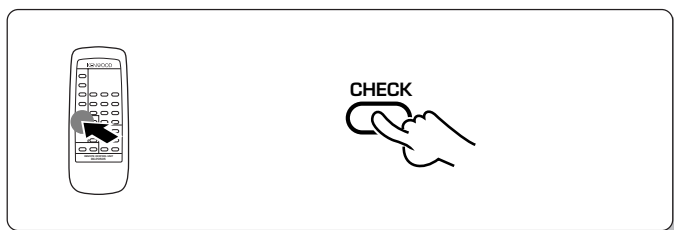


Remaining time display.



1. While you can edit with a different time setting to that of the tape you are using, part of the tape may be left with nothing recorded on it, or the last track on side A or side B may be cut short.
2. The EDIT function may not operate properly for discs having only one track or having tracks of long duration such as classical music.

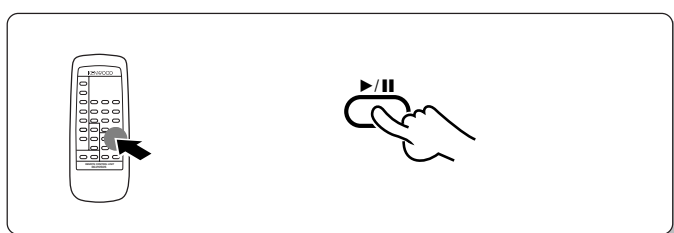
To check the edited contents



EDIT A 01

- When the **CHECK** key is pressed, track numbers and remaining time in the file A are displayed first, then those in the file B.

Playing or recording the edited contents

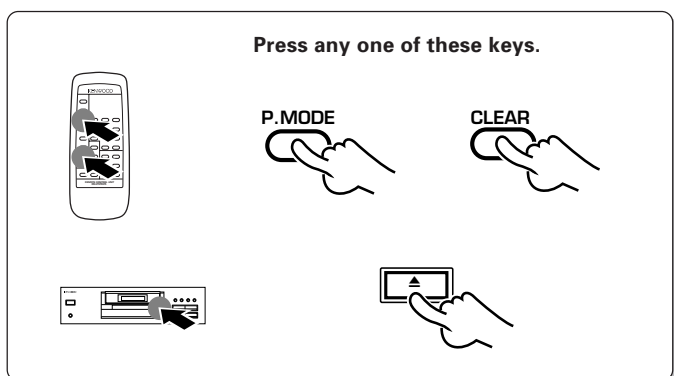


Press the ►/|| key to start playback according to the edited content. The playback pauses at the beginning of the track edited for tape side B. Press the ►/|| key again to continue playback.

When recording the edited content onto a tape, it is recommended to use the synchro recording or CCRS recording function of KENWOOD cassette decks.

- Do not adjust the output level from this unit particularly during recording.
- For details, see the instruction manual of the cassette deck.

To clear the edited contents



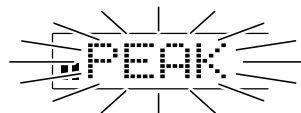
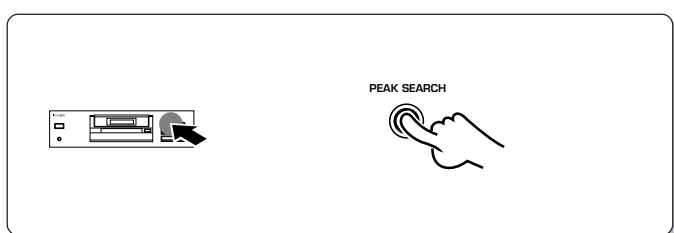
- The edited data is cleared entirely.

Peak search

This function identifies the highest peak level of the entire recording on a CD before recording the CD on the cassette deck. With this unit, after the peak level of each track recorded on the CD has been searched, the section of the music containing the highest peak level will be played repeatedly so that the recording level of the cassette deck or MD (analog recording) can be adjusted easily.

This feature is particularly convenient when using a cassette deck with manual recording level adjustment which does not have the automatic recording level adjustment function.

(This unit cannot perform peak search recording when used with a cassette deck equipped with the peak search function.)



- After a high-speed search of all tracks, the searched peak level section will be repeated at normal speed.
- The peak level is detected by sampling the section which seems to contain the maximum level in the disc. However, it may happen that the transient maximum level is not detected. Therefore, it is recommended to set the recording level by leaving a certain margin above the detected peak level.

To cancel Peak search:

Press the ■ key.

Timer operations

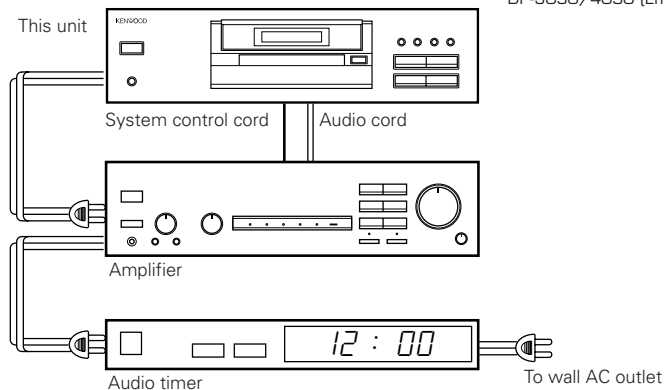
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Timer playback of CD can be started at any time using an audio timer which is available in audio stores.

Preparation

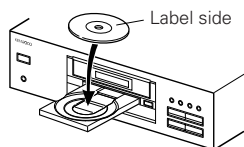
- Connect the power cords of the associated components so that their power can be turned ON through the audio timer. (Also, be sure to read carefully the instruction manual of the timer.)



1 Turn the powers of the associated components ON.

2 Preparation

Load a disc in the CD player.



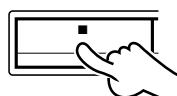
3 Set the amplifier volume.

1 Play the disc.



2 Adjust the amplifier volume.

3 Stop the disc.



4 Set the timer ON time.

Set the timer so that it supplies power at the specified time.

5 Turn OFF the power output from the audio timer.

- If the amplifier is not connected to the CD player through a system control cord, select the "CD" input with the input selector.

- With some audio timer models, the power is automatically turned OFF when the timer ON time is set. With such a model, skip step 5 below.

- Do not touch the **POWER** switches of the amplifier and CD player.
- When the set time comes, the disc playback starts automatically.



1. Some amplifiers cannot be used with a timer. Before using an amplifier, check it.
2. When operating the unit other than CD player using an audio timer, be sure to remove the disc from the CD player.






What appears to be a malfunction may not always be serious. If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Operation to reset



The microcomputer may fall into 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.

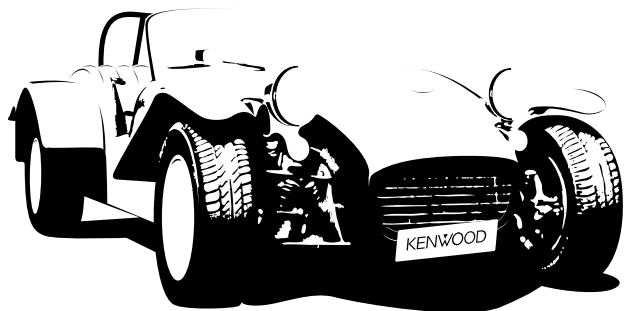
Set the POWER switch to OFF, and after several seconds, set the POWER switch back to ON.

CD player unit

Symptom	Cause	Remedy
The power is not turned on with the POWER switch ON.	<ul style="list-style-type: none"> ● Power plug is loosely connected. ● With the power plug connected to the switched AC outlet of an amplifier, the power of the amplifier is turned off. 	<ul style="list-style-type: none"> ● Insert the power plug firmly to the AC outlet. ● Turn the amplifier's power ON.
Disc is loaded, player does not play.	<ul style="list-style-type: none"> ● Disc is loaded upside down. ● Disc is loose. ● Disc is dirty. ● Disc is cracked. ● Condensation has occurred on the optical lens unit. 	<ul style="list-style-type: none"> ● Load the disc again with its label side up. ● Insert the disc properly. ● Wipe off the dust on the surface of the disc referring to "Disc handling precautions". →  ● Replace the disc with a new one. ● Leave the player for about 1 hour so that the condensation is removed. → 
No sound.	<ul style="list-style-type: none"> ● Play mode is not entered. ● Disc is too dirty. ● Disc is cracked. ● The connection cords are inserted loosely. ● Output level is attenuated too low. 	<ul style="list-style-type: none"> ● Press the ►/ key. ● Wipe off the dust on the disc surface referring to "Disc handling precautions". →  ● Replace the disc with a new one. ● Connect all connection cords firmly. ● Adjust the output level with OUTPUT key on the remote control unit. → 
Music is interrupted. (Sound is skipped.)	<ul style="list-style-type: none"> ● Disc is too dirty. ● Disc is cracked. ● Oscillation is applied to this unit. 	<ul style="list-style-type: none"> ● Wipe off the dust on the disc surface referring to "Disc handling precautions". →  ● Replace the disc with a new one. ● Try selecting a place where no strong vibrations occur by changing the installation place, etc.
Play begins as soon as the power is turned on.	<ul style="list-style-type: none"> ● This unit is designed so that play begins automatically when the power is turned on if a disc is already loaded. 	<ul style="list-style-type: none"> ● If automatic play is not required, remove the disc from the player before turning the power OFF.

Remote control unit

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



DP-5090

[Format]

System Compact disc digital audio system
Laser Semiconductor laser

[D/A Convertors]

D/A Conversion 1 Bit (24 bit Fine D.R.I.V.E.)
Oversampling 32 fs (1411 kHz)

[Audio]

Frequency response 4 Hz ~ 20 kHz, ±0.5 dB
Signal to noise ratio More than 114 dB
Dynamic range More than 100 dB
Total harmonic distortion + noise

..... Less than 0.002% (at 1 kHz)

Channel separation More than 100 dB (at 1 kHz)

Wow & flutter Unmeasurable Limit

Output level/impedance

Variable (Max.) 2 V/0.3 kΩ

Digital output

Coaxial 0.5 V p-p / 75 Ω

Optical -15 dBm ~ -21 dBm
(Wave length 660 nm)

Headphone output (Max.) 20 mW (32 Ω)

[General]

Power consumption 12 W

Dimensions W: 440 mm (17-5/16")

H: 127 mm (5")

D: 366 mm (14-7/16")

Weight (Net) 5.0 kg (11.0 lb)

DP-4090

[Format]

System Compact disc digital audio system
Laser Semiconductor laser

[D/A Convertors]

D/A Conversion 1 Bit (D.R.I.V.E.)
Oversampling 8 fs (352 kHz)

[Audio]

Frequency response 4 Hz ~ 20 kHz, ±0.5 dB

Signal to noise ratio More than 100 dB

Dynamic range More than 95 dB

Total harmonic distortion + noise

..... Less than 0.005% (at 1 kHz)

Channel separation More than 95 dB (at 1 kHz)

Wow & flutter Unmeasurable Limit

Output level/impedance

Variable (Max.) 2 V/0.3 kΩ

Digital output

Coaxial 0.5 V p-p / 75 Ω

Optical -15 dBm ~ -21 dBm
(Wave length 660 nm)

Headphone output (Max.) 20 mW (32 Ω)

[General]

Power consumption 12 W

Dimensions W: 440 mm (17-5/16")

H: 127 mm (5")

D: 366 mm (14-7/16")

Weight (Net) 4.8 kg (10.5 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).

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 _____

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