COMPACT DISC PLAYER

DP-1100B

INSTRUCTION MANUAL
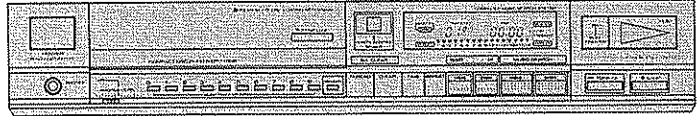

COMPACT

disc

DIGITAL AUDIO

TRIO KENWOOD Corp. certifies this equipment conforms to DHHS Regulations NO. 21 CFR 1040.10, Chapter I, Subchapter J.

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

TRIO KENWOOD CORPORATION

SHIONOGI SHIBUYA BUILDING
17-5, 2-CHOME, SHIBUYA, SHIBUYA-KU, TOKYO, JAPAN

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.

KENWOOD

Introduction

The purpose of this manual is to acquaint you with the operating features of your new unit. You will notice that in every detail of planning, engineering, styling, operating convenience, and adaptability, we have sought to anticipate your needs and desires.

We suggest that you read this manual carefully. Knowing how to set up your unit to the best advantage will enhance your listening pleasure right from the start. You will also become aware of the ease with which you can adjust your unit to meet your special requirements.

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 _____

After unpacking

After unpacking, we recommend that you inspect the unit for any possible 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 to prevent any damage should you transport or ship your unit in the future.

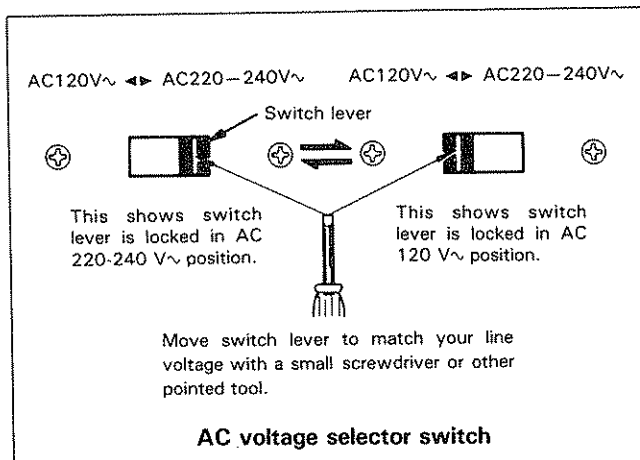
Important!

U.S.A. and Canada

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only. These units are not equipped with an AC voltage selector switch and the discussion of such a switch that follows should be disregarded.

All other countries

Units shipped to countries other than the U.S.A., Canada and U.K. are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

AC voltage selection

This unit operates on 120 volts or 220-240 volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC120V∿ ◄► AC220—240V∿   AC120V∿ ◄► AC220—240V∿

Switch lever

This shows switch lever is locked in AC 220-240 V∿ position.

This shows switch lever is locked in AC 120 V∿ position.

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

AC voltage selector switch

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

For United Kingdom

The mains plug must be removed from the wall socket prior to any internal examination.

Important

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

Blue .... Neutral
Brown .... Live

The wires in this mains lead must be connected to the terminals in the plug as follows:

Wire colour	Plug terminal marking
Blue	N or Black
Brown	L or Red

Brown to Live
Blue to Neutral
Plug
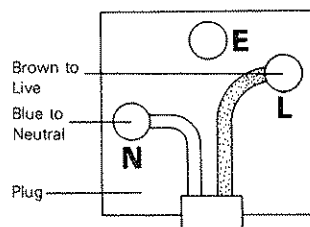
Notes:
1) If a 13-amp plug is used, this must be fitted with a 5-amp fuse.
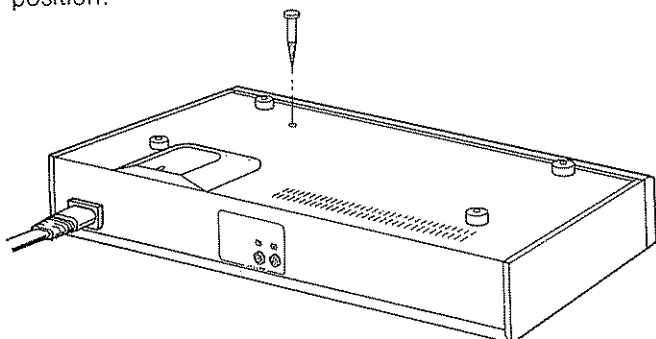2) If a 3-pin plug with earthing contact is used, no wire must be connected to the E terminal.

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

Before operation

Important

Before using the unit, remove 1 transportation screw as shown in the diagram. Be sure to keep the screw and install it when moving the unit. When reinstalling the screw, always return the laser pick-up to its start position.
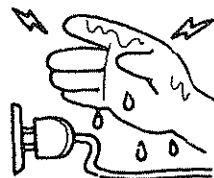
Notes on installation

Do not place the unit in a place which is exposed to direct sunlight, near a heating appliance, etc.

Do not place a vase containing water, makeup, etc. on the unit. Do not use in a humid place.

To maintain good ventilation, do not put discs or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.

Choose a location that is relatively free from vibration or excessive dust.

Keep the unit away from a source of magnetic fields such as TV sets, motorized toys, etc.

Safety precautions

Never remove the case. If the internal parts are touched accidentally, a serious electric shock might occur.
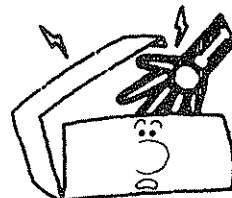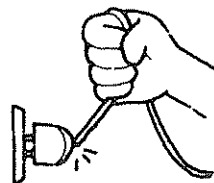
Never touch internal parts.

Touching the power plug when your hands are wet may result in a serious electric shock.
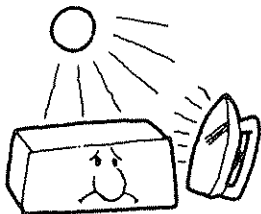
Never touch with wet hands.

Never pull, bend or extend the power cord. This could damage the power cord, resulting in a broken cord or short-circuit.
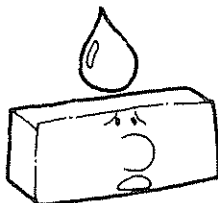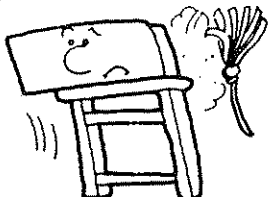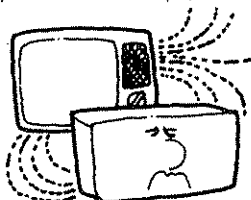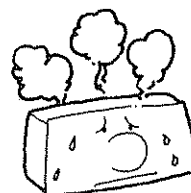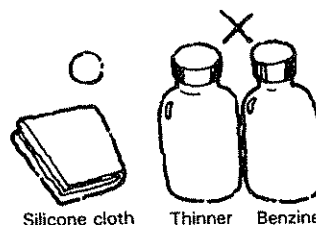
Always grasp the plug.

In case of abnormal smell

If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest Service Station.

Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, benzine, etc. to clean the cabinet. Use a silicone cloth or a clean dry cloth.
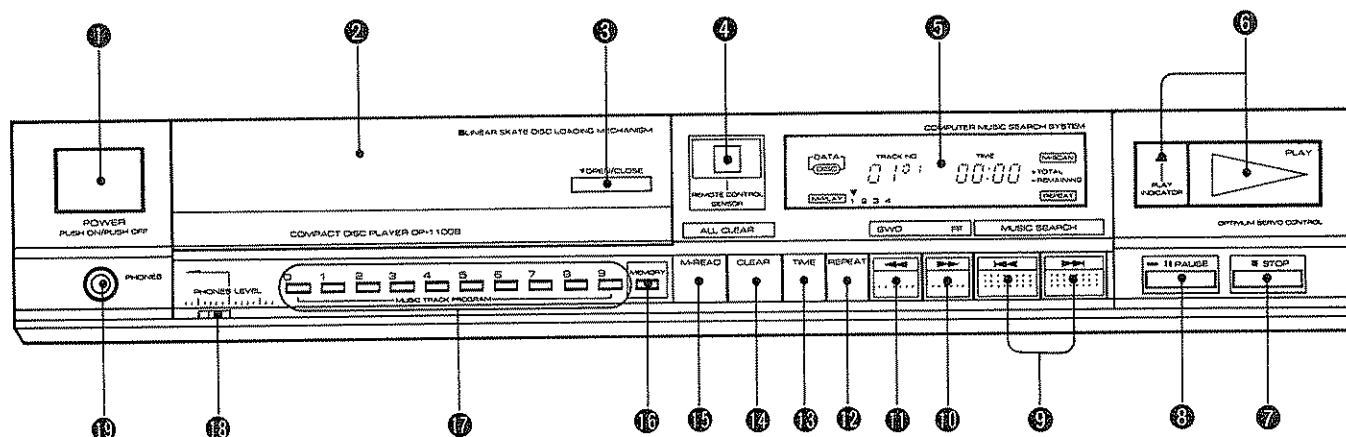
Silicone cloth   Thinner   Benzine

Controls and indicators

Numbers in circles correspond to the diagram, abbreviations in brackets correspond to front panel indications.

❶ Power switch (POWER)
Press this switch to switch on the power. Press again to switch off the power.

❷ Disc tray
Load a compact disc into this tray.

❸ Open/close switch (OPEN/CLOSE)
Press this switch to open the disc tray. When this switch is pressed during playback, the laser pickup returns to its start position, the disc stops and the disc tray opens. To close the disc tray, press the switch again.

❹ Remote control sensor (REMOTE CONTROL SENSOR)
Point the supplied remote control unit towards this sensor and operate.

❺ Mode display
● Data indicator (DATA)
Lights when the address information (TOC:Table Of Contents) recorded at the beginning of the compact disc has been read. When this indicator lights, the disc playback is possible.

● Disc indicator (DISC)
Lights when a compact disc is set in the disc tray.

● Memory play indicator (M-PLAY)
Lights during memory playback.

● Track No. indicator (TRACK NO.)
The left 2 digits show the track number and the right 2 digits show the index number. The right 2 digits show $0 1$ when the index number is not specified.

● Time indicator (TIME)
Indicates the playback time of each tune, the playback time of disc (+ TOTAL) or remaining time of disc (—REMAINING). When the tune is memorized with the index No., the time indicator (TIME) does not display the total playback time of the disc (+ TOTAL) and total remaining time of the disc (—REMAINING).

● Memory indicator (▼)
Blinks when the memory switch (MEMORY) is pressed to show the channel in which tune storage is possible. During memory play, this indicator shows the memory channel being played back.

● Memory channel indicators (1 - 16)
Light when tune numbers are stored in the memory.

● Music scan indicator (M-SCAN)
Lights when the music scan key (M-SCAN) on the supplied remote control unit is pressed. The beginning 10 seconds of each tune will be played back in turn.

● Repeat indicator (REPEAT)
Lights when the repeat switch (REPEAT) is pressed and the unit enters the repeat mode.

❻ Play switch (▷ PLAY)/play indicator
Press this switch to start disc playback. When this switch is pressed, the play indicator lights. When a tune No. is designated with the tune selection switches (MUSIC TRACK PROGRAM), pressing this switch will play back the designated tune (Tune selection play). When the memory read switch (M-READ) is pressed, pressing this switch will play back the tunes in the order in which they are stored in memory (Memory play). When this switch is pressed in the memory play mode, the memory play mode is released and the unit enters the manual play mode.

❼ Stop switch (■ STOP)
Press this switch to release the operation mode. The laser pickup returns to the start position, the unit enters the standby mode.

❽ Pause switch (‖ PAUSE)/pause indicator
When this switch is pressed during playback, the pause indicator lights and the unit enters the pause mode. To resume playback, press the play switch (▷ PLAY). When a tune No. is designated with the tune selection switches (MUSIC TRACK PROGRAM) and this switch is pressed, the unit enters the pause mode at the beginning of the designated tune. When the memory read switch (M-READ) is pressed and this switch is pressed, the unit enters the pause mode at the beginning of the selected tune.

⑨ Music search switch (MUSIC SEARCH |◄◄,►►|)

To select the next tune, press the music search switch (►►|). The track No. indicator (TRACK NO.) displays the No. of the next tune.

When the music search switch (|◄◄) is pressed during playback, the unit returns to the beginning of the current tune. Keeping the switch pressed returns the unit to the beginning of the previous tune.

⑩ Fast forward switch (FF ►►)

When this switch is kept pressed, the disc is fast forwarded. When this switch is pressed during playback, the unit enters cue mode.

⑪ Backward switch (BWD ◄◄)

When this switch is kept pressed, the laser pickup moves towards the start of the disc. When this switch is pressed during playback, the unit enters review mode.

Notes:
1. When the (FF ►►) or (BWD ◄◄) key is pressed during playback, the cue or review sound can be heard. This enables you to index the tune easily.
2. Pressing the (FF ►►) or (BWD ◄◄) key during PAUSE mode further accelerated the disc travel speed.

⑫ Repeat switch (REPEAT)

Press to repeat a tune. The repeat indicator (REPEAT) lights and all tunes will be played in the manual play mode. In the memory play mode, all the tunes stored in memory will be played back. Press this switch again to release the repeat mode. The repeat indicator (REPEAT) goes off.

⑬ Time switch (TIME)

When the unit is initially turned on, the time indicator (TIME) indicates the playback time of each tune. When the time switch (TIME) is pressed, the time indicator (TIME) displays the total playback time of the disc (+ TOTAL). When the time switch (TIME) is pressed again, the indicator indicates the total remaining time of the disc (−REMAINING).

⑭ Clear switch (CLEAR)

Press this switch to clear the displayed tune No. To clear all the tune Nos. from memory, press this switch together with the memory read switch (M-READ).

When the memory switch (MEMORY) is pressed and the tune No. stored, press the clear switch (CLEAR) within 3 seconds to clear the tune No.

⑮ Memory read switch (M-READ)

When this switch is pressed, one of the memory indicators (▼) blinks and the tune No. stored in the memory is displayed in the track No. indicator (TRACK NO.) for several seconds. When the memory read switch (M-READ) is pressed again, next memory channel indicator (MEMORY INDICATOR) blinks. To erase all memorized tune Nos., press this switch together with the clear switch (CLEAR).

⑯ Memory switch (MEMORY)

Press this switch to store the tune No. specified by tune selection switches (MUSIC TRACK ·PROGRAM). To change the memory contents, select the memory channel with the memory read switch (M-READ), specify the new tune track/index No. with the tune selection switches (MUSIC TRACK PROGRAM) and press the memory switch (MEMORY). To store the current tune, simply press the memory switch (MEMORY).

⑰ Tune selection switches (MUSIC TRACK PROGRAM)

Used to input the track No. and/or index No. for tune selection play, tune selection pause or memory operation. To specify the index No., input the index No. after designating the track No. For example, when designating track No. 3 and index No. 2, press the tune selection switches (MUSIC TRACK PROGRAM) in the order [0], [3], [0] then [2]. The music track No. indicator (TRACK NO.) shows *03 02* . When the index No. is not specified, the right 2 digits of music track No. indicator (TRACK NO.) show *01* .

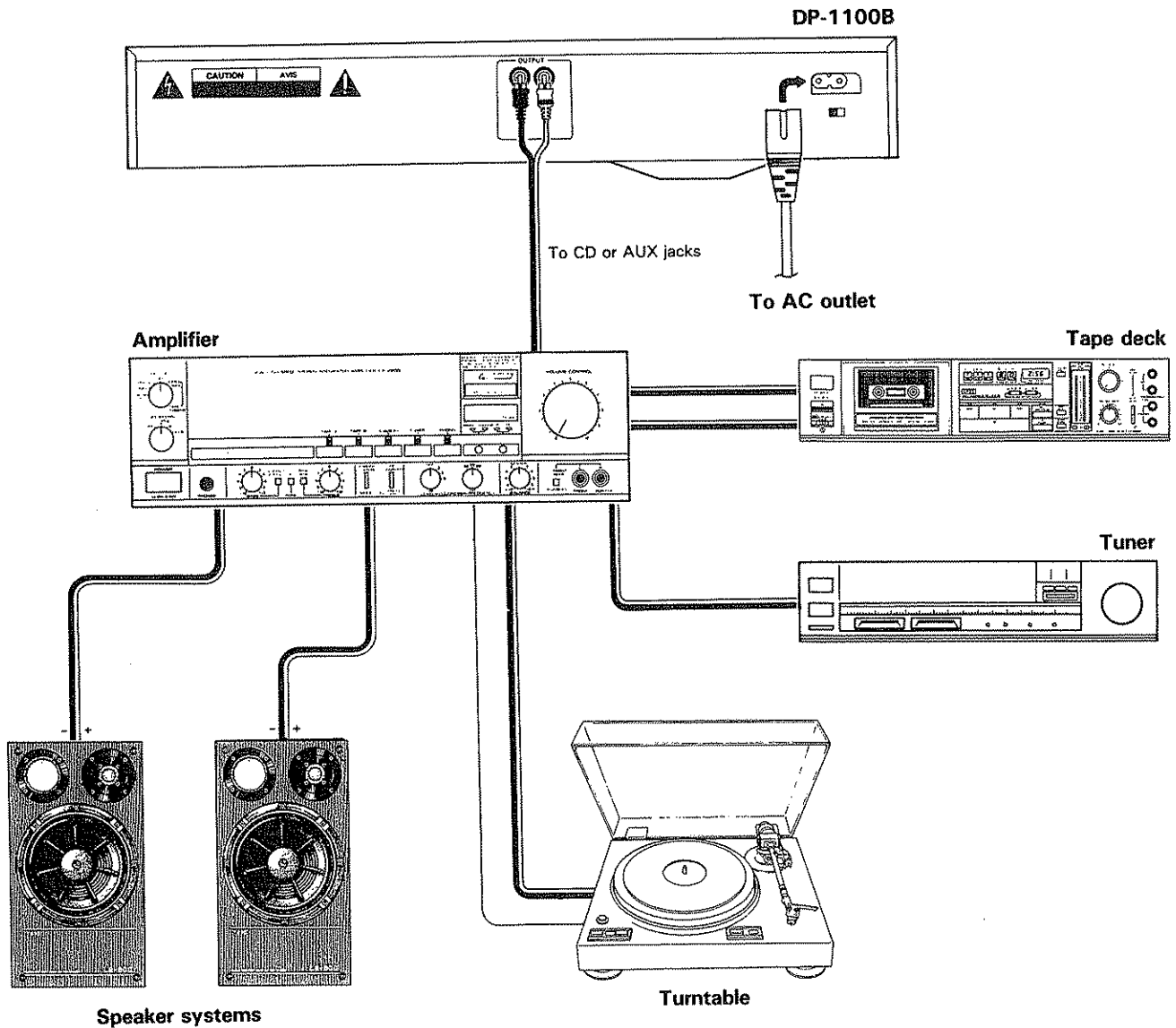### ⑱ Headphone level control (PHONES LEVEL)

Used to adjust the level of connected headphone. Shift the control to the right to increase the level.

⑲ Headphone jack (PHONES)

Connect the headphone plug to this jack.

System connections

● Make system connections with the power turned off.

DP-1100B

To CD or AUX jacks

To AC outlet

Amplifier

Tape deck

Tuner

Speaker systems

Turntable

Power cord connection

Connect the power cord to a convenient AC outlet.

Connection to the amplifier

Connect the output jacks (OUTPUT) to the right and left
CD, TUNER, TAPE IN or AUX jacks of the amplifier.

Note:

Do not connect the output jacks to the PHONO jacks of the amplifier.

Operating instructions

How to load a compact disc

1. Set the power switch (POWER) to ON.
2. Take out the compact disc from its case.
3. Press the open/close switch (OPEN/CLOSE) to open the disc tray and insert the disc with the label facing upward.

Notes:
1. Take care not to insert the disc back upside down.
2. Never insert anything other than a disc into the disc tray.
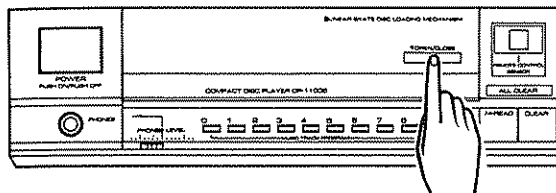
4. Close the disc tray by pressing the open/close switch (OPEN/CLOSE). The disc starts rotating automatically. The disc indicator (DISC) blinks while the address information (TOC) is being read and switch operation is impossible.
5. When the address information has been read, the data indicator (DATA) lights, the unit enters the standby mode, and the track No. indicator (TRACK NO.) displays 0101.
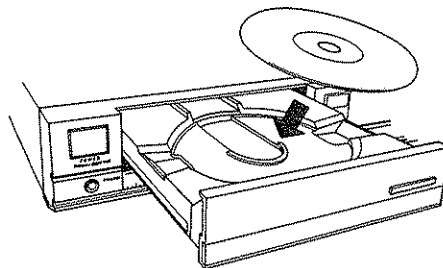
Manual playback

■ How to play back from the first tune

1. Set the power switch (POWER) to ON.
2. Load a compact disc in the disc tray..
3. When the data indicator (DATA) lights, press the play switch (▷ PLAY), and the disc playback starts

from the first tune.

4. After play backing the last tune, the laser pickup returnes to the beginning of the first tune and the unit enters the standby mode.
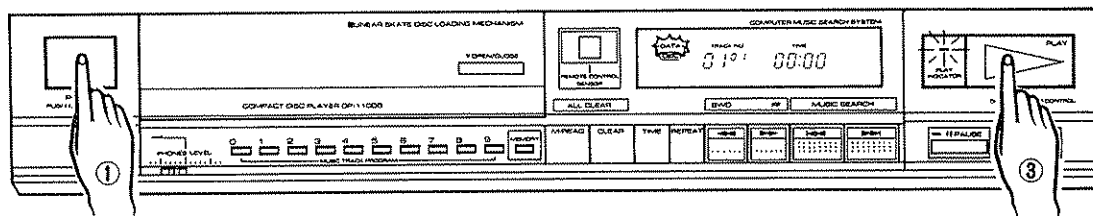

■ How to search the next or previous tune (Music search)

1. To play back the next tune, press the music search switch (▶▶|) once. The next tune No. displayed in track No. indicator (TRACK NO.) lights. When the unit is in the playback mode, pressing the music search switch (▶▶|) will start the playback from the beginning of the next tune. When the playback starts, the memory play indicator (M-PLAY) lights up. When the music search switch (▶▶|) is pressed in the pause or standby mode, the unit enters the pause mode at the beginning of the next tune. To play back the next tune, press the play switch (▷ PLAY).
2. By pressing the music search switch (▶▶|) more

than once or keeping the switch pressed, any subsequent tune can be selected and played back. Select the tune while observing the track No. displayed in the track No. indicator (TRACK NO.).

3. To play back the previous tune, press the music search switch (|◀◀). During playback, the unit returns to the beginning of the current tune. Immediately press the switch again to return the unit to the beginning of the previous tune.

4. Press the music search switch (|◀◀) repeatedly or continuously to select the previous tune, observing the track No. indicator (TRACK NO.).
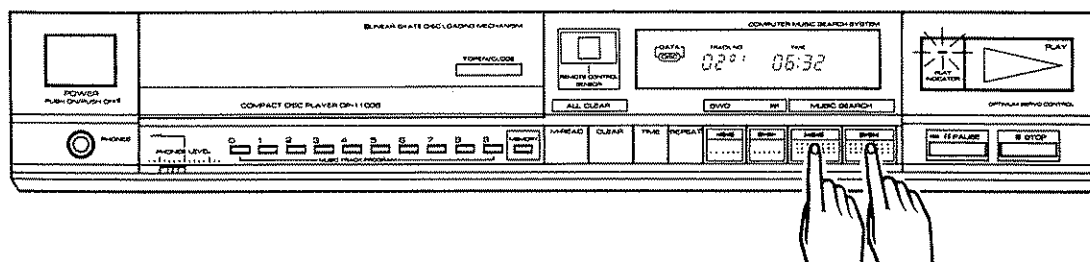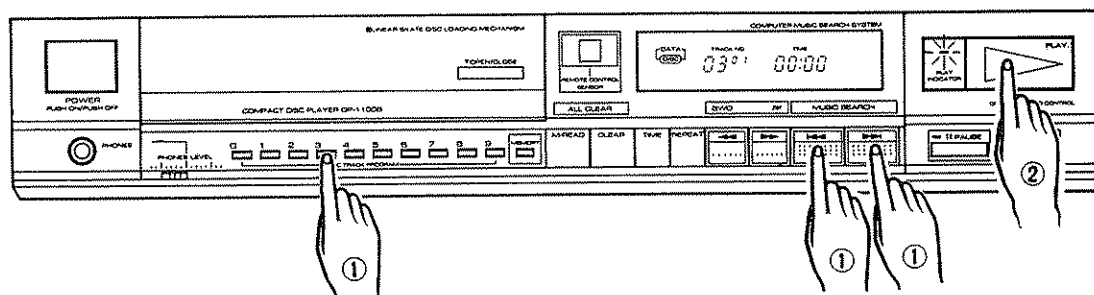
■ Tune selection play

1. Press the tune selection switches (MUSIC TRACK PROGRAM) or music search switches, (|◄◄, ►►|) according to the tune No. (track No./index No.) of the desired tune. The track No. indicator (TRACK NO.) displays the No. of the desired tune.

2. Press the play switch (▷ PLAY). The play indicator lights and the unit starts playing back the selected tune.

When the unit is set to play mode, the playback of the selected tune starts after step 1.

■ Tune selection pause

1. Press the tune selection switches (MUSIC TRACK PROGRAM) or music search switches (|◄◄, ►►|) according to the tune No. (track No./index No.) of the desired tune. The track No. indicator (TRACK NO.) displays the No. of the desired tune.

2. Press the pause switch (|| PAUSE). The pause indicator lights and the unit enters the pause mode at the beginning of the selected tune.

3. To start playback, press the play switch (▷ PLAY). The play indicator lights and the unit starts playing back the selected tune.

When the unit is set to stop or pause mode, the unit enters the stop or pause mode at the beginning of the selected tune.
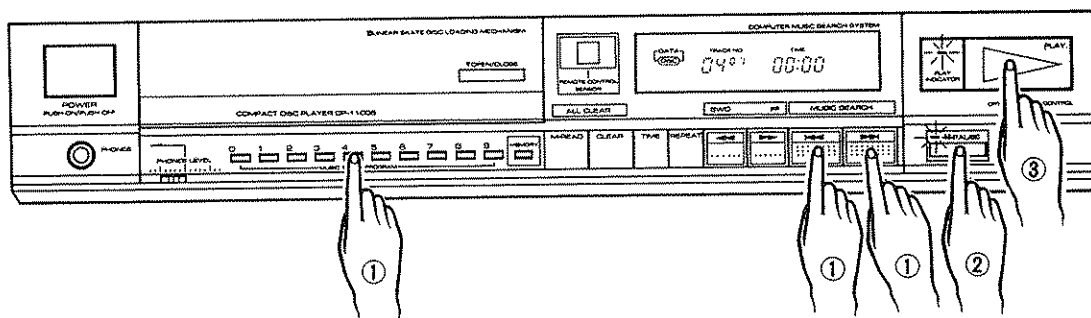
■ Full repeat playback

1. Press the play switch (▷ PLAY) and press the repeat switch (REPEAT). The repeat indicator lights and all tunes are played back over again.

2. To release the full repeat playback mode, press the repeat switch (REPEAT) again. The repeat indicator goes off and the laser pickup returns to the start position and the unit enters the standby mode after playing back the last tune.
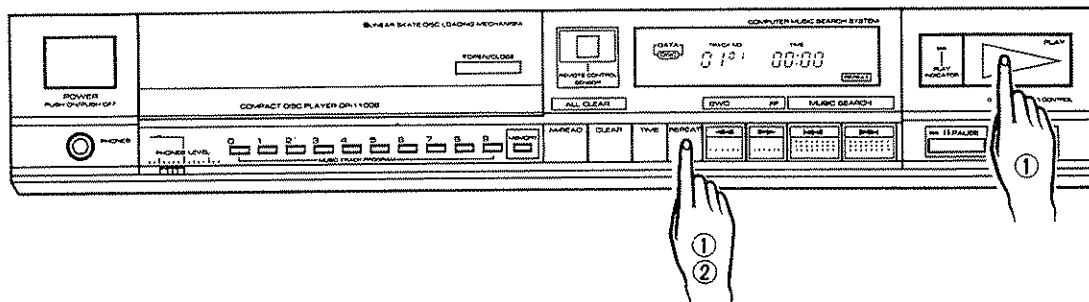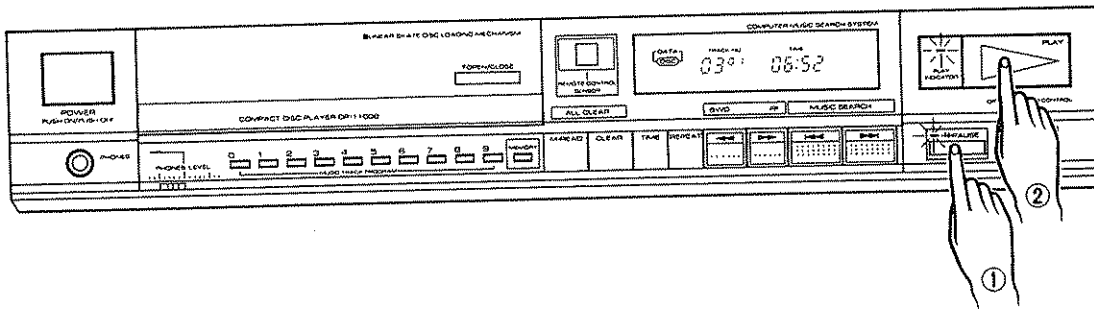
■ How to stop playback temporarily

1. To suspend playback, press the pause switch (❙❙ PAUSE). The pause indicator lights and the unit enters the pause mode.

2. To resume playback, press the play switch (▷ PLAY). The pause indicator goes off, the play indicator lights and the playback starts.

■ How to enter standby mode

1. To stop playback and return the laser pickup to the beginning of the first tune, press the stop switch (■ STOP). The laser pickup returns to the start position and the unit enters the standby mode. The track No. indicator (TRACK NO.) displays $0 \ 0 \ 1$.
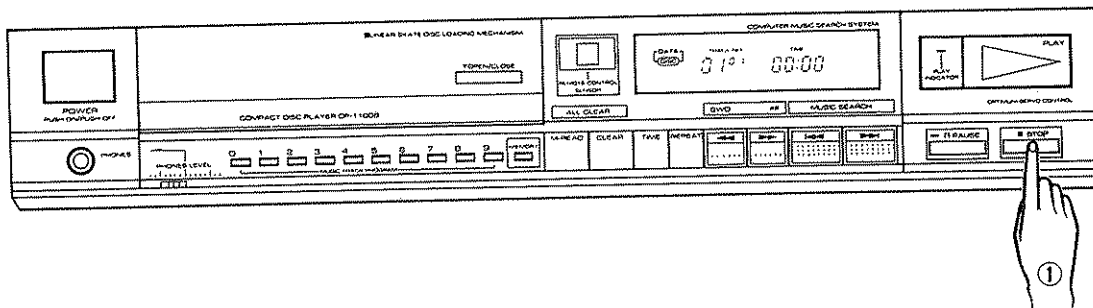
Memory playback

■ How to store tune Nos. in memory

1. Press the tune selection switches (MUSIC TRACK PROGRAM) according the tune No. (track No./index No.) of the desired tune. The track No. indicator (TRACK NO.) displays the No. of the desired tune. If a wrong tune No. is specified, press the clear switch (CLEAR), then input the correct music No.

2. Press the memory switch (MEMORY) while the tune No. is displayed. The memory channel indicator (1 - 16) lights to show that the tune No. has been stored in memory. If the incorrect tune No. is memorized, press the clear switch (CLEAR) within 3 seconds
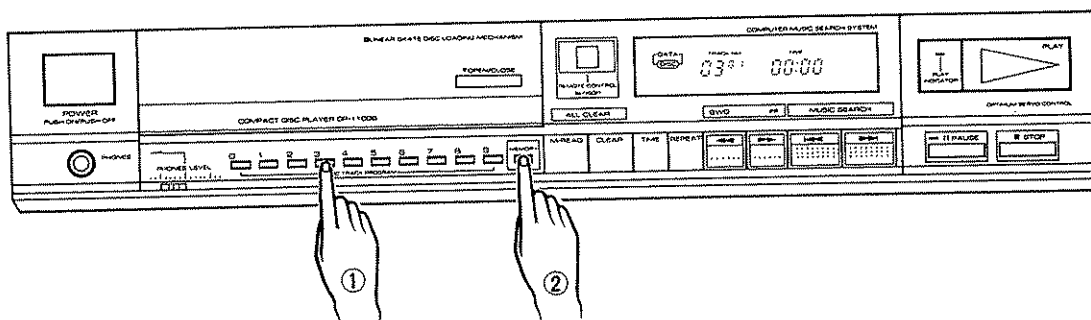
after the memory switch (MEMORY) is pressed.

Note:
Up to 16 tune Nos. can be stored in memory.

Example

|	Track No./ index No.	MUSIC TRACK PROGRAM	TRACK NO.
1st	③ – (01)	⓪③ MEMORY	03^{01}
2nd	① –	① ① MEMORY	1^{01}
3rd	④ – (03)	⓪④⓪③ MEMORY	04^{03}
4th	⑧ – (02)	⓪⑧⓪② MEMORY	08^{02}

■ How to check the contents of memory

1. To check the contents of memory, press the memory read switch (M-READ). The tune No. stored in the memory corresponding to the memory indicator (▼) which is blinking is displayed by the track No. indicator (TRACK NO.).
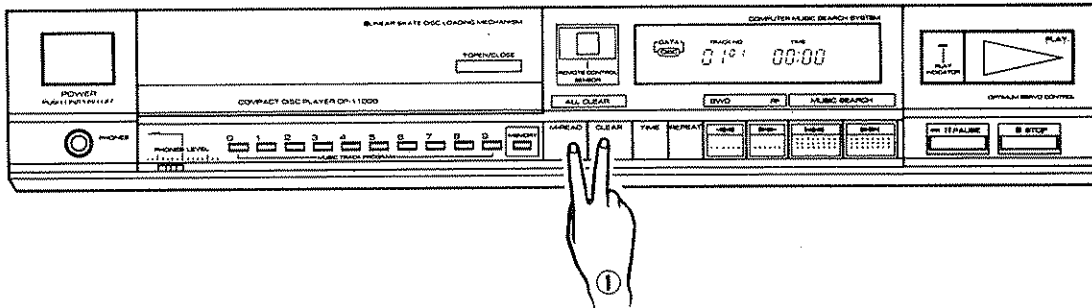
2. Each time the memory read switch (M-READ) is pressed, the contents of the next memory can be checked.
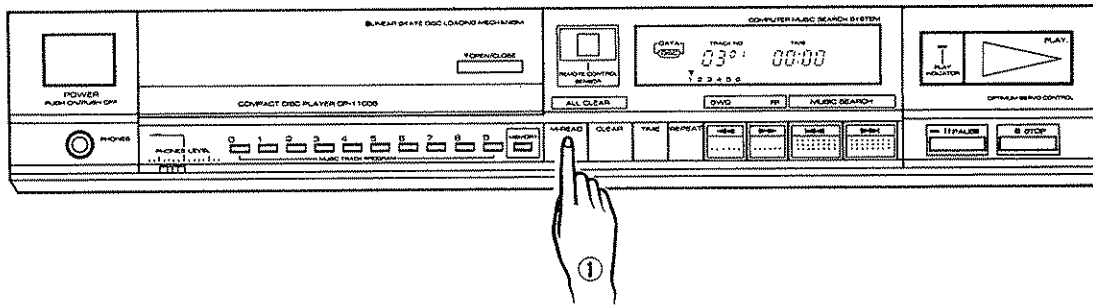
■ How to clear memory

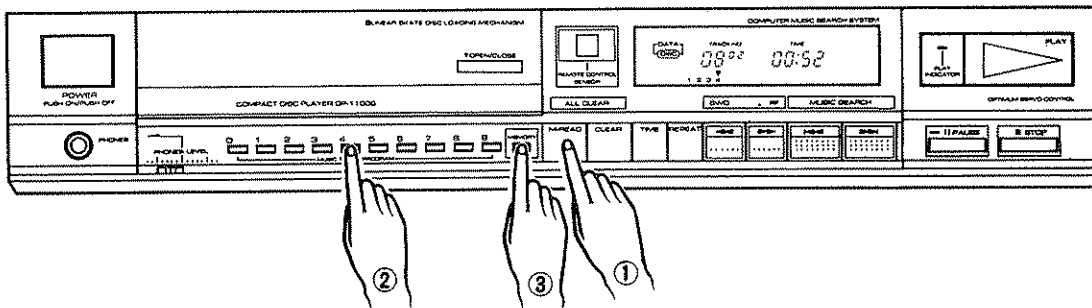1. To clear the memory, press the memory read switch (M-READ) and clear switch (CLEAR) simultaneously.

■ To change the memory contents

1. Press the memory read switch (M-READ) to recall the memory channel to be changed.
2. Specify a new tune No. with tune selection switches (MUSIC TRACK PROGRAM).
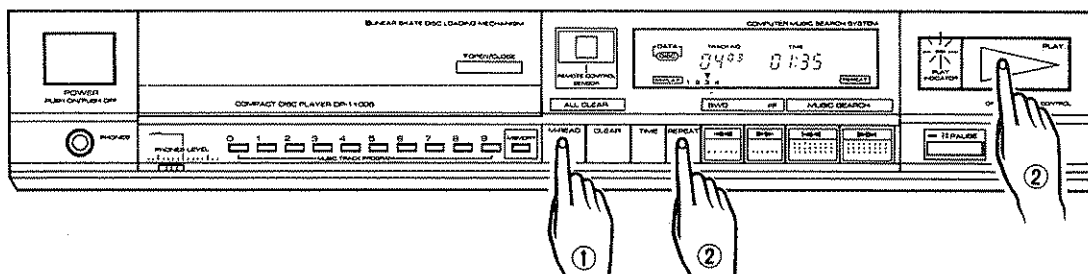3. Press the memory switch (MEMORY).

■ Memory play

1. Press the memory read switch (M-READ). Memory channel indicator (▼) above channel ①︎ blinks. To start playback from the another tune the number of which is stored in memory, press the memory read switch (M-READ) repeatedly so that the desired memory channel indicator (▼) blinks.

2. Press the play switch (▷ PLAY). The playback starts from the specified tune.

3. When the last tune the number of which is stored in memory is played back, the laser pickup returns to the beginning of the first tune and the unit enters the standby mode.
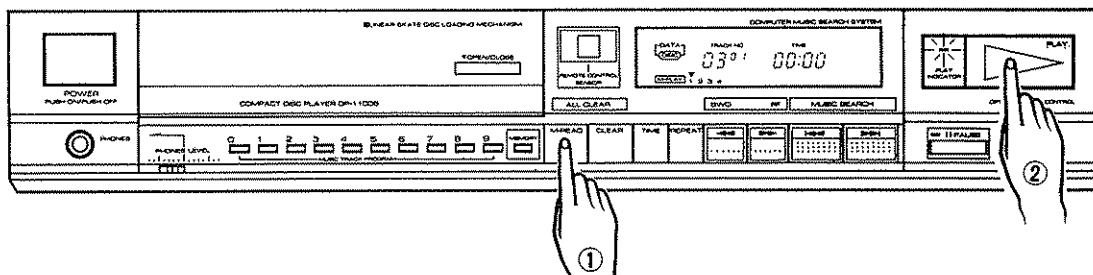

■ Memory repeat playback

1. Press the memory read switch (M-READ). Memory channel indicator (▼) above channel ①︎ blinks. To start playback from another tune the number of which is stored in memory, press the memory read switch (M-READ) repeatedly so that the desired memory channel indicator (▼) blinks.

2. Press the play switch (▷ PLAY) and repeat switch (REPEAT). The memory play indicator (M-PLAY) and repeat indicator (REPEAT) light. The playback starts from the specified memory channel and all the tunes are played back.

3. To release memory repeat playback, press the repeat switch (REPEAT). The repeat indicator (REPEAT) goes off. When the last tune is played back, the laser pickup returns to the start position and the unit enters the standby mode.

4. When one tune number is stored in memory and the unit is set to the repeat mode, repeat playback of one tune is possible.


■ How to select the next or subsequent tunes during memory play

1. Press the music search switch (|◀◀,▶▶|) during memory play. The track No. indicator (TRACK NO.) shows the No. of the next or subsequent tune, playback starts from the beginning of the next or subsequent tune.

2. By pressing the music search switch (|◀◀,▶▶|) a number of times or continuously, any next or subse-quent tune can be selected and played back.

3. When the music search switch (▶▶|) is pressed during playback of the last tune in a mode other than memory repeat, the laser pickup returns to the beginning of the first tune and the unit enters the standby mode.
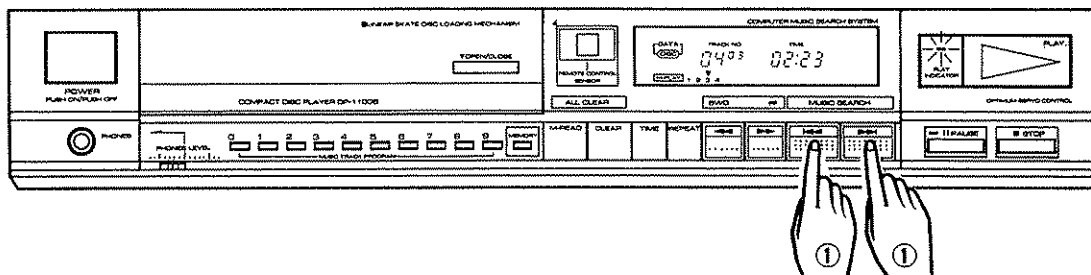
■ Memory play selection

1. Press the memory read switch (M-READ) during memory play to recall the desired tune No.

2. Press the play switch (▷ PLAY). Playback starts from the specified tune.
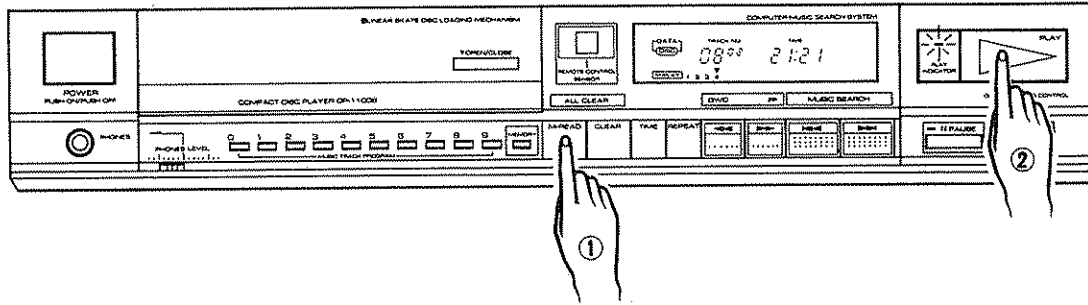

■ How to play a tune which is not held in memory during memory play

1. Press the tune selection switches (MUSIC TRACK PROGRAM) to display the desired tune No. (track No./index No.) in the track No. indicator (TRACK NO.).

2. Press the play switch (▷ PLAY). The mode of the unit changes from memory play to manual play and manual play starts from the specified tune.
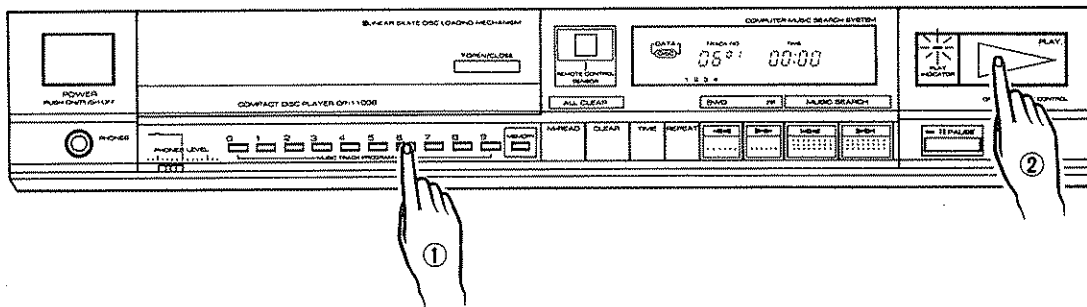
■ How to change from memory play to manual play

1. Press the play switch (▷ PLAY) during memory play. The unit enters the manual play mode and playback continues. The memory play indicator (M-PLAY) goes off.

2. Or, press the stop switch (■ STOP). Playback stops, the laser pickup returns to its start position and the unit enters the standby mode.
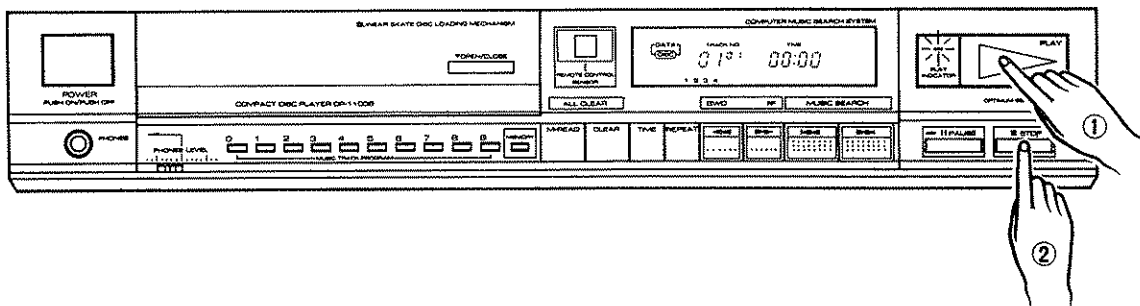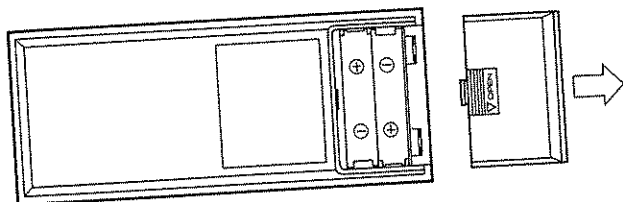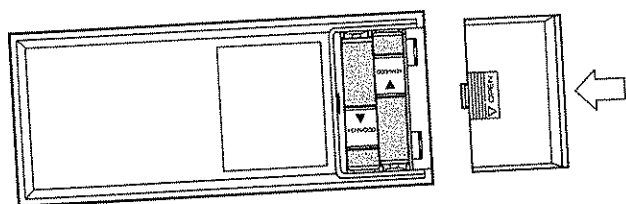
Remote control unit

Battery

Batteries are not supplied for the remote control unit. Obtain 2 SUM-4 (AAA, R03) batteries and load as shown below.
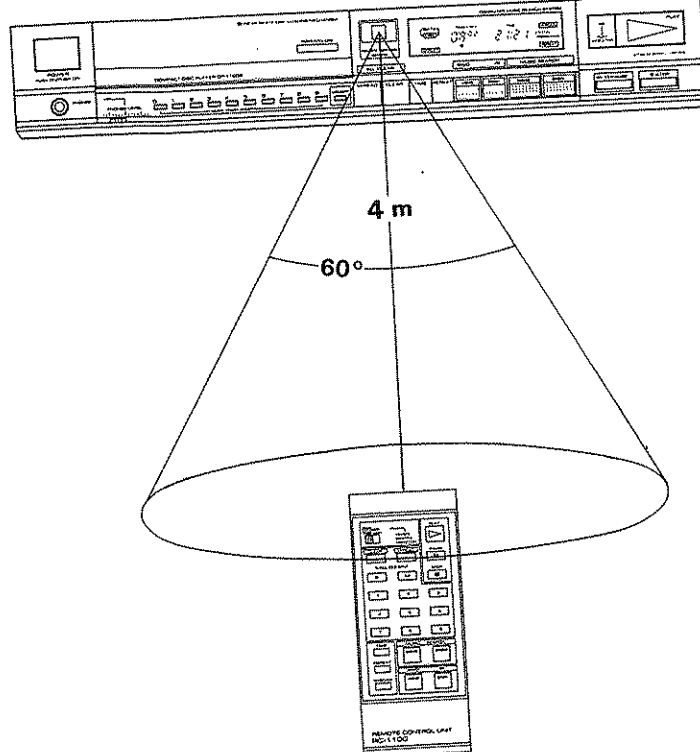
1. Open the battery compartment lid.

2. Load the batteries, observing the polarities.

The batteries last for about 1 year of normal operation. If operation becomes unstable, replace the batteries.
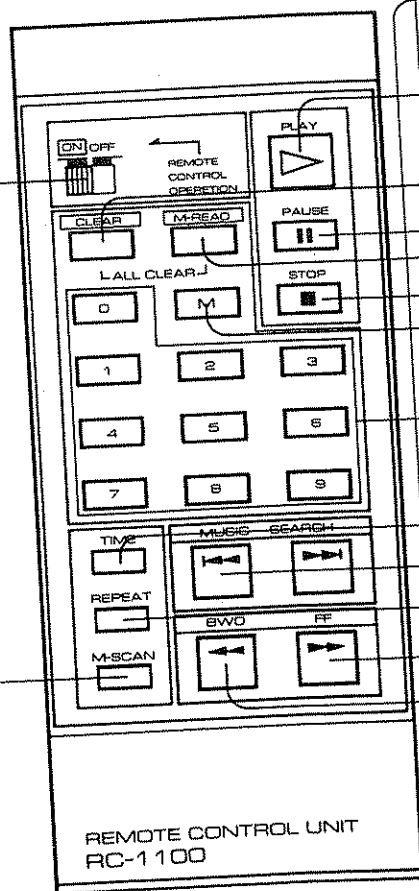
Remote control unit operation range

DP-1100B

4 m

60°

Names and functions

The operation and function of these keys are the same as those of the controls and switches on the unit front panel.

Power switch
Set to ON to operate the remote control unit.

Music scan key (M-SCAN)
Press to play back the beginning 10 seconds (approx.) of each tune in turn.

Play key (PLAY ▷) ❻

Clear key (CLEAR) ⓮

Pause key (PAUSE ❚❚) ❽
Memory read key (M-READ) ⓯
Stop key (STOP ■) ❼
Memory key (M) ⓰

Track No. keys (0-9) ⓱

Time key (TIME) ⓭
Music search keys
(MUSIC SEARCH ◀◀ , ▶▶❙) ❾
Repeat key (REPEAT) ⓬
Forward key (FF ▶▶) ❿
Backward key (BWD ◀◀) ⓫

Note:
To clear all memory contents, keep the memory read key (M-READ) pressed, then press the clear key (CLEAR).

REMOTE CONTROL UNIT
RC-1100

Notes on handling compact discs

Handling

Compact discs are made of plastic (polycarbonate). When the recorded side of the compact disc is dirty or scratched, playback may be noisy or sound may be missed. Even when the label side is scratched, the recording may be damaged. Handle compact discs carefully. Do not stick tape, etc. to compact discs.

Cleaning

When a compact disc is contaminated with finger-prints, etc., wipe with a dry cloth in a radial direction. Never use chemical solvents, such as thinner, benzene, etc. and conventional record cleaners or aerosols.
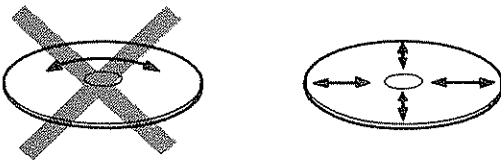
Storage

Always replace the compact disc in its case and store it. Compact discs are adversely affected by heat and moisture. Do not store compact discs in a place expos-ed to direct sunlight or where humidity is high.

Additional precautions

When performing connections, always disconnect the power cord from the AC outlet. When setting the power switch (POWER) to OFF, always turn the volume control of the amplifier to minimum.

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

TRIO KENWOOD CORPORATION
SHIONOGI SHIBUYA BUILDING
17-5, 2-CHOME, SHIBUYA,
SHIBUYA-KU, TOKYO, JAPAN

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

DANGER LASER RADIATION
WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.

In case of difficulty

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.

Symptom	Possible cause	Remedy
When a disc is loaded, it does not start rotating.	1. Disc is loaded upside down. 2. The transportation screw has not been removed. 3. Disc is not straight. 4. Disc is dirty.	1. Reverse the disc. 2. Remove the transportation screw. 3. Re-load the disc. 4. Clean.
Playback does not start.	Condensation on the optical system lens.	Turn the power on and leave the unit for one hour.
No sound from one or both speakers.	Loose connection cord.	Connect the connection cord tightly.

Specifications

Compact disc player

Disc loading system	Linear skate disc loading mechanism
Frequency response	2 Hz — 20 kHz, ±0.5 dB
Dynamic range	95 dB or more
Signal-to-noise ratio	95 dB or more
Total harmonic distortion	Less than 0.0015% (1 kHz)
Channel separation	90 dB or more (1 kHz)
Wow and flutter	Below measurable limit
Output level	2 V
Output impedance	600Ω
Sampling frequency	44.1 kHz
Quantization	16 bit linear quantizing/channel
Spindle speed	200 — 500 rpm
Pickup	Semiconductor laser (GaAlAs)
Error correction	C.I.R.C
Tune selection	TNO (Music No.), INDEX (Index No.)
Number of tune search	Up to 99
Access time	Average 2 seconds

Number of memory	16
Repeat play	Endless
Power supply	AC 120 V, 60 Hz (USA and Canada) AC 120 V — AC 220/240 V, 50/60 Hz (Others)
Power consumption	20 W (USA), 23 W (Others)
Dimensions	440(W) × 88(H) × 310(D) mm
Weight	6.8 kg

Remote control unit

System	Infrared control Wave length; 930 nm
Effective distance	4 m
Effective angle	±30° from the center axis
Dimensions	140(H) × 54(W) × 12(D) mm
Batteries	AAA or R03 × 2 (option)
Weight	50 g (without batteries)

Note:
We follow a policy of advancements in development. For this reason specifications may be changed without notice.

KENWOOD