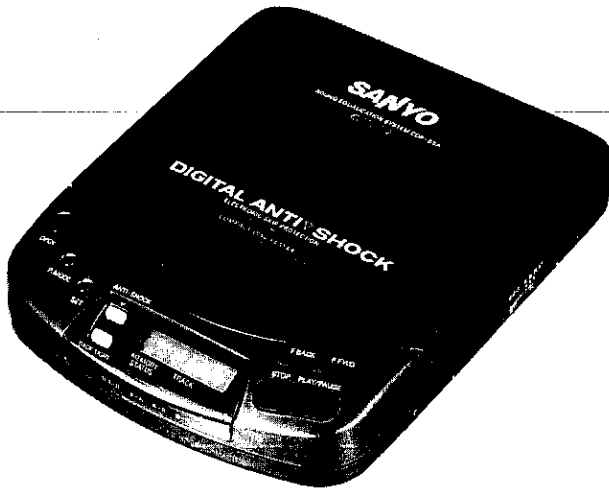


SANYO

Instruction
Manual

Portable
Compact Disc Player

CDP-55A



SAFETY CERTIFICATION

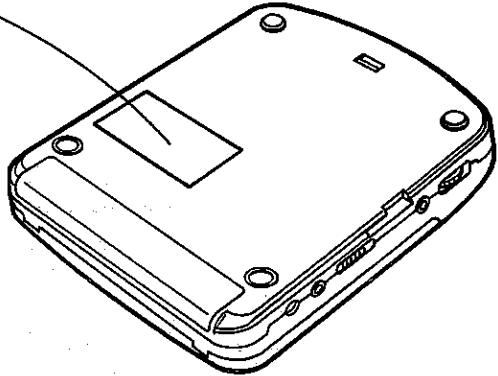
Laser Diode Properties

Material: Ga-Al-As

Wavelength: 755 ~ 815 nm (25°C)

Laser Output: Continuous Wave max. 0.5 mW

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT



CAUTION – USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT QUALIFIED SERVICE PERSONNEL.

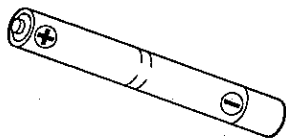
WARNING!

- Unauthorized recording of copyrighted material may violate applicable copyright laws. SANYO assumes no responsibility for unauthorized duplication, use or other acts which infringe upon the rights of copyright owners.
- To avoid the hazards of fire or electrical shock, do not expose this appliance to rain or other moisture.

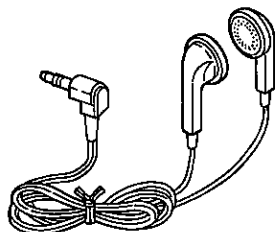
CAUTION

- High volume settings can create potentially dangerous situations. Use caution when driving while operating this unit. Obey local regulations. It is not recommended to use this unit while bicycling or running.
- Do not place the unit in a position where it will be exposed to magnetic fields, water, or sources of heat. Avoid leaving the unit in direct sunlight for prolonged periods.

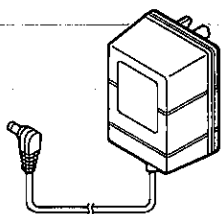
ACCESSORIES



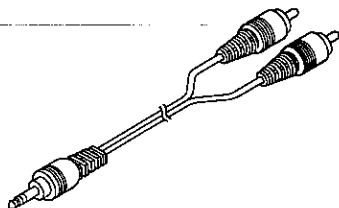
Rechargeable nickel-cadmium
battery (NBP-30B)



Earphones



AC adaptor



Patch cable

CONTROLS

- ① Disc Compartment
- ② Battery Compartment (bottom)
- ③ DC 3V Jack
- ④ LINE OUT Jack
- ⑤ S.E.S Switch

Use the Sound Equalization System to adjust the frequency response of the system to match the type of music you are listening to.

A
This setting provides a large bass boost (low frequency output), and also increases the treble (high frequencies).

B
This setting is similar to the A position, but uses a smaller bass boost.

FLAT
This setting maintains flat (even) frequency response.

- ⑥ F BACK/F FWD Buttons
- ⑦ PHONES Jack

- ⑧ VOLUME Control
- ⑨ PLAY/PAUSE Button

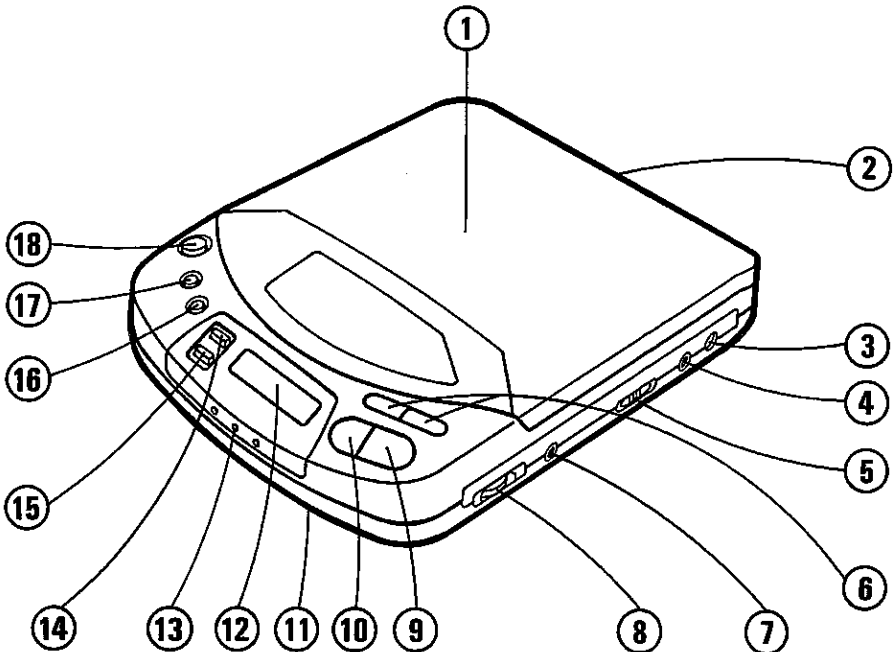
Auto Power On/Off Function

The player turns on automatically when you press the PLAY/PAUSE, F BACK/F FWD or P.MODE button.

The player turns off when you press the STOP button or when all tracks on a disc have been played.

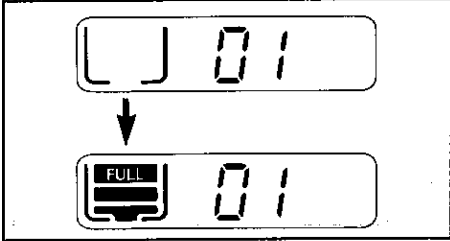
- ⑩ STOP Button
- ⑪ RESET Switch (bottom)
- ⑫ Display
- ⑬ S.E.S Indicators

The A or B indicator lights to show the position of the S.E.S switch. When the S.E.S switch is in the FLAT position, both the A and B indicators are off. (There is no indicator for the FLAT position.)

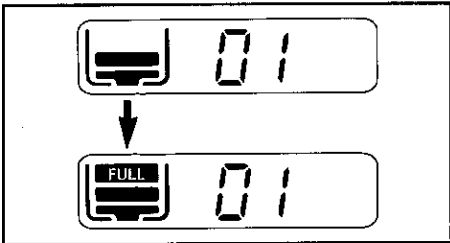


⑭ ANTI-SHOCK Button and Indicator

Press this button during play. The "L J" indicator appears on the display, the FMT Anti-Shock System is turned "ON" and the music signals are stored in memory. The "L J" indicator switches to "FULL", indicating that music data has been stored. This helps prevent sound skipping due to shocks and vibration.



- When the player is subjected to a shock during play, the data stored in the memory is used until the pickup can read the music data properly from the disc. At that time, the indicator switches to "L J" or "L", indicating that the amount of data in the memory is low. If no more shocks are received, data is once again stored in the memory, and the indicator switches back to "FULL".



- If shocks are received repeatedly, all data stored in memory is used, the indicator switches to "L J", and the sound skips.

Press this button again to turn the FMT Anti-Shock System and the "L J" indicator "OFF."

When the player is used in a stable location where it will not receive shocks, such as those from vibration, leave the Anti-Shock System turned off.

- When the Anti-Shock System is "OFF", the battery power consumption is less than when it is "ON."
- The sound will be interrupted when the Anti-Shock System is switched from "ON" to "OFF" (or from "OFF" to "ON"). This is normal.

FMT Anti-Shock System

The conventional servo circuit and floating design are not sufficient to counteract shocks during play when the unit is carried. To overcome this problem, this unit is equipped with the electronic FMT (Fast read Multi-Trace) anti-shock system which rapidly scans data from the disc and holds it in the CD player memory for normal play. This system virtually eliminates "sound breaks", which is one of the major drawbacks of conventional portable CD players.

⑮ BACK LIGHT Button

Press this button to illuminate the display for 10 seconds. The light will go out automatically. Use this feature at night or whenever the ambient lighting conditions make the display difficult to read.

⑯ SET Button

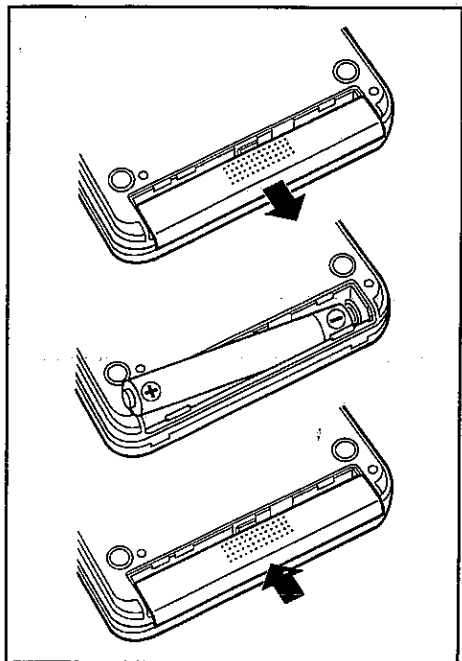
⑰ P.MODE Button

⑱ OPEN Button

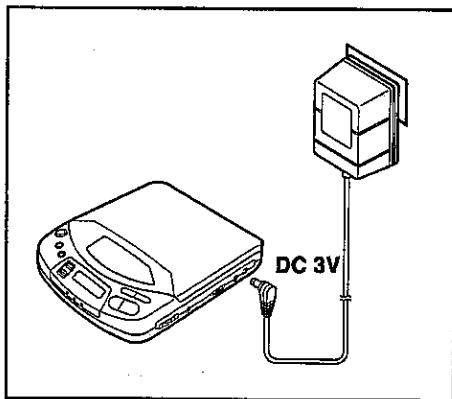
POWER SUPPLY

RECHARGEABLE NICKEL-CADMIUM BATTERY INSTALLATION

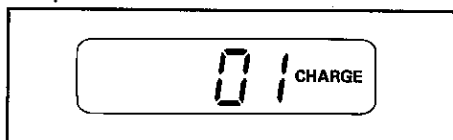
- Fully charge the rechargeable nickel-cadmium battery before using it for the first time.
- ① Insert the rechargeable nickel-cadmium battery into the battery compartment on the bottom of the unit. Be sure to observe the proper polarity (the "+" and "-" signs, as indicated above the battery compartment).



- ② The battery is fully charged approximately 8 hours after the AC adaptor is connected.



- More time may be required for charging in cold temperatures.
- You can listen to CDs while the battery is charging, but more time is required for charging. "CHARGE" appears on the display during charging when the PLAY/PAUSE button is pressed.



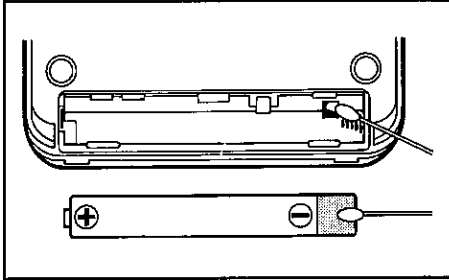
- ③ When charging is completed, disconnect the AC adaptor plugs from both the CDP-55A and the AC outlet.

Cautions on the AC Adaptor

- Use this unit only with the supplied AC adaptor. Use with other AC adaptors could damage the unit.
- Do not touch the AC adaptor with wet hands. Doing so is dangerous, as this could result in an electrical shock.
- If the AC adaptor is connected when regular batteries are installed, the power supply automatically switches to the AC power source and the batteries are disconnected.

Notes on the Rechargeable Nickel-Cadmium Battery

- Always keep the charging terminal clean.



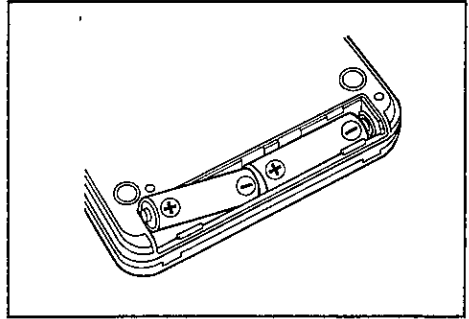
- Only use rechargeable nickel-cadmium battery (NBP-30B) with the CDP-55A. Under normal usage conditions, this battery can be recharged approximately 500 times.
- If the operating time decreases drastically even when the rechargeable nickel-cadmium battery is properly recharged, purchase a new rechargeable nickel-cadmium battery (NBP-30B).
- Do not use any AC adaptor other than the one supplied with the CDP-55A.
- Do not charge continuously for 24 hours or more. Doing so can cause the performance of the rechargeable nickel-cadmium battery to deteriorate.
- Do not short-circuit the "+" and "-" terminals of the rechargeable nickel-cadmium battery.
- Do not put rechargeable nickel-cadmium batteries in water or fire.
- Do not disassemble rechargeable nickel-cadmium batteries.

Notes on Regular Batteries

- When replacing the regular batteries, use two new batteries of the same type. Do not mix a used battery with a new one or mix different types of batteries.
- When inserting the batteries, mistakenly inserting even one with improper polarity will cause leakage.
- Never charge, heat, disassemble, or throw batteries into a fire.
- When the batteries have become discharged, they must be disposed of in a safe manner that complies with all applicable laws.

BATTERY INSTALLATION

Insert two AA batteries (not supplied) into the battery compartment on the bottom of the unit. Be sure to observe the proper polarity (the "+" and "-" signs, as indicated above the battery compartment).



Battery Recharging or Replacement

If the rechargeable nickel-cadmium battery or the regular batteries are discharged, the volume may be reduced and the sound may be distorted. If this occurs, recharge the rechargeable nickel-cadmium battery or replace the regular batteries before using this unit.

- If the rechargeable nickel-cadmium battery or regular batteries are weak, " " flashes in the display.
- This unit can be used if the rechargeable nickel-cadmium battery or regular batteries are removed, as long as the supplied AC adaptor is connected.
- When you are not going to use the player for one month or longer, take the rechargeable nickel-cadmium battery or regular batteries out of the battery compartment.

NOTE: If the operating buttons do not function when pressed . . .

1. Remove the batteries and/or disconnect the AC adaptor from the unit. Wait a few seconds, then reinstall the batteries or reconnect the AC adaptor.
2. If the buttons still do not function, insert new batteries or charge the rechargeable nickel-cadmium battery.

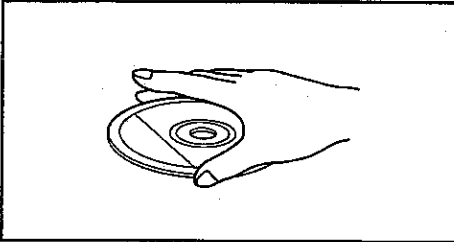
HANDLING COMPACT DISCS

This unit has been designed to play compact discs bearing the identification logo shown below. No other discs can be played.



Dirty, scratched or warped discs may cause skipping or noise. Pay attention to the following:

- Handle the disc only by the edges. To keep the disc clean, do not touch the surface of the disc.



- Discs should be returned to their cases after use to avoid serious scratches that could cause the laser pickup to skip.
- Do not expose discs to direct sunlight, high humidity, or high temperatures for extended periods. Prolonged exposure to high temperatures can warp the disc.

- Do not apply paper or write anything on either side of the compact disc. Sharp writing instruments, or the inks used in some felt-tip pens, may damage the surfaces of the disc.
- Fingerprints should be carefully wiped from the surface of the disc with a soft cloth. Unlike conventional records, compact discs have no grooves to collect dust and microscopic debris, so gently wiping them with a soft cloth should remove most particles. Wipe in a straight motion from the inside to the outside of the disc. Small dust particles and light stains will have no effect on reproduction quality.

YES



NO



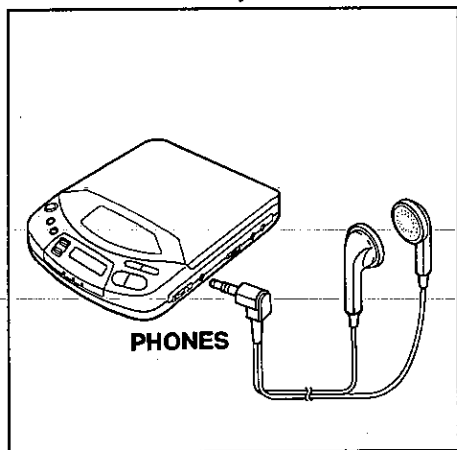
- Never use such chemicals as record sprays, anti-static sprays, benzene or thinner to clean compact discs. Such chemicals can damage the plastic surface of the disc.

- The player will not play a disc that has been inserted upside down, or discs which do not conform to the Compact Disc standard. Also, the player might not play discs that are scratched, soiled or carry fingerprints.
- 8 cm CDs can be played without an adaptor.

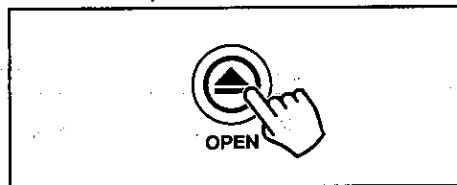
PLAYING A DISC

- Be sure to reduce the volume before plugging in or unplugging the earphones.

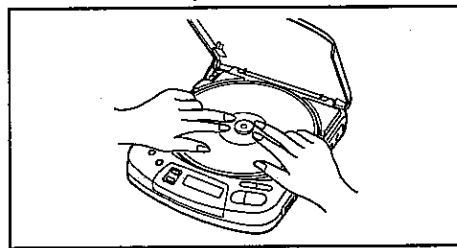
- 1 Plug the cord from a pair of earphones into the PHONES jack.



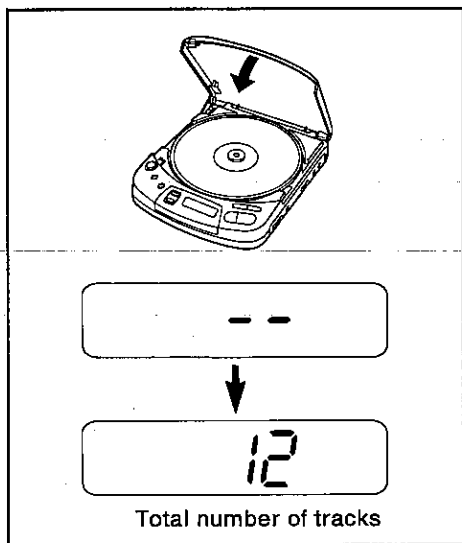
- 2 Press the OPEN button to open the disc compartment.



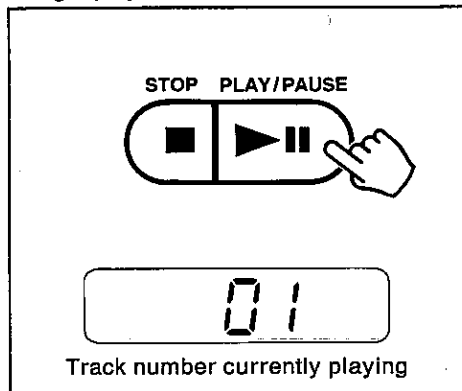
- 3 Hold the disc with the labeled side up and press it onto the spindle until it "clicks" into place.



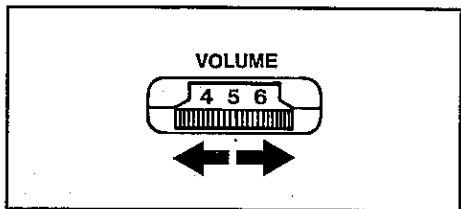
- 4 Close the disc compartment. The disc will begin to spin, the display will indicate the total number of tracks on the disc, then the display will go out. If you press the PLAY/PAUSE button while "--" appears in the display, play will begin immediately with track number 1.



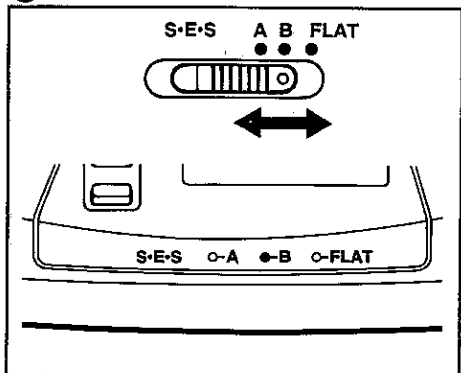
- 5 Press the PLAY/PAUSE button to begin play.



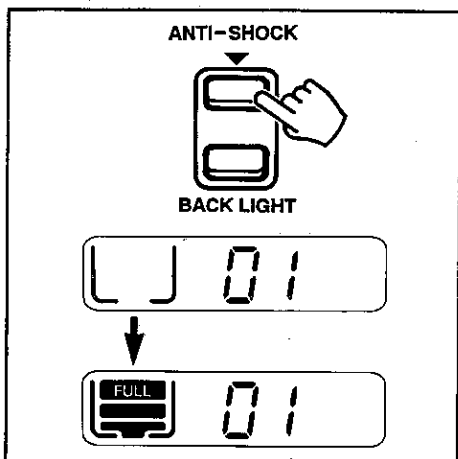
- 6 Adjust the VOLUME control as desired.



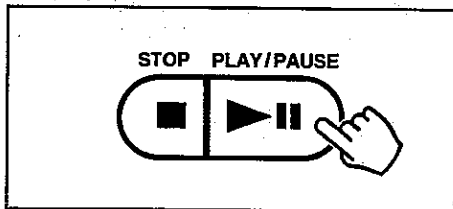
- 7 Set the S.E.S switch as desired.



- 8 Turn the Anti-Shock System on or off as desired.

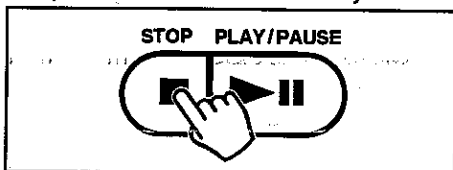


- 9 To stop play temporarily, press the PLAY/PAUSE button. The track number flashes in the display.



- Press the PLAY/PAUSE button again to resume.

- 10 To stop play, press the STOP button. "00" appears in the display and the power turns off automatically.



FORWARD/REVERSE SEARCH

Press and hold the F BACK or F FWD button during play to scan the disc at high speed. When the desired section of the disc is found, release the button. Normal play will resume.

- ▶▶ FORWARD
- ◀◀ REVERSE

TRACK SEARCH

Press the F BACK or F FWD button during play to skip to the desired track.

- Press ▶▶ to skip to the next track on the disc.
- Press ◀◀ to skip to the beginning of the track currently playing.
- Press ◀◀ twice or more to skip to previous tracks.

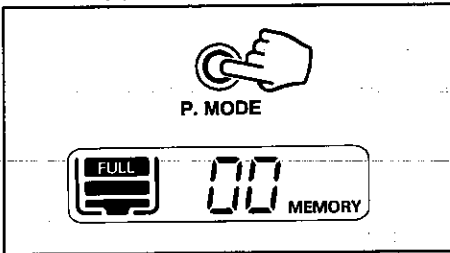
PROGRAMMED PLAY

- The tracks on the disc can be programmed for play in any order. (Up to 22 tracks can be programmed.)
- During programming, the track number and "MEMORY" will flash in the display.

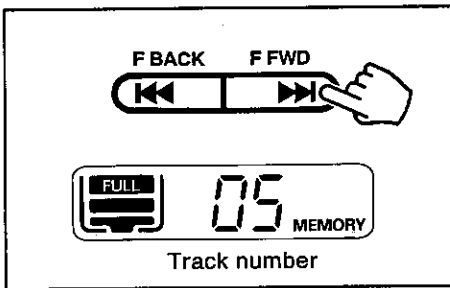
Program Example:

Program Number	1	2	3	4	5	6			
Track Number	5	3	8	1	2	4			

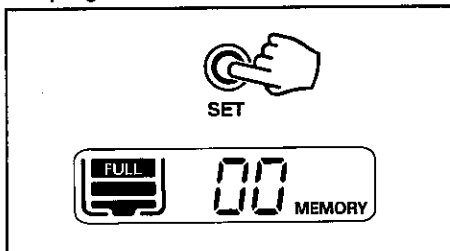
- 1** Press the P.MODE button four times during play.



- 2** Press the FBACK or FFWD button to select track number 5.

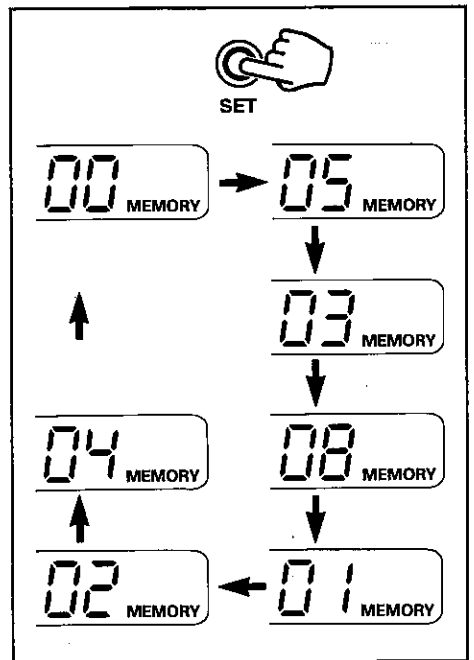


- 3** Press the SET button. Track 5 is now programmed.



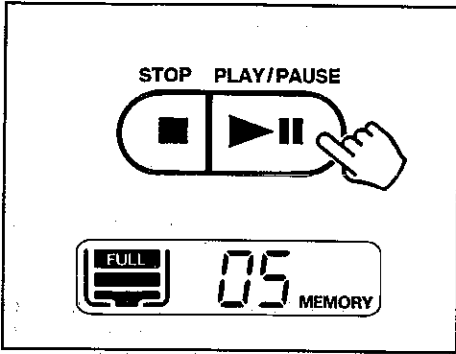
- 4** Repeat steps 2 and 3 to program other tracks.

- 5** To check the program contents after all track numbers have been programmed, press the SET button. The programmed track numbers will be displayed in the order they were memorized.



6 After programming is finished, press the PLAY/PAUSE button.

- "MEMORY" stops flashing in the display and programmed play begins.



- The player stops automatically after all programmed tracks have been played.
- The programs are stored in memory until the disc compartment is opened. To play the same program again, press the P.MODE button to display "MEMORY", then press the "PLAY/PAUSE" button.
- Programming is also possible in the pause mode.

Changing the Program

Example: To change program 2, track number 3 to track number 6

1. Press the SET button to display track number 3 (program number 2).



2. Press the F BACK or FFWD button to change the track number to 6.



3. Press the SET button. After the change has been completed, the display will change to indicate the next program number (track number 8, program number 3).



Program Example:

Program Number	1	2	3	4	5	6			
Track Number	5	3	8	1	2	4			

Adding a Program

Example: Add track number 9 as program 7

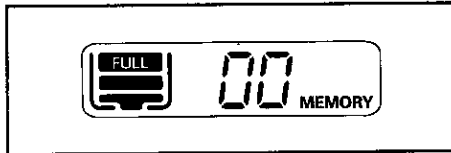
1. Press the SET button to display "00".



2. Press the F BACK or F FWD button to display track number 9.



3. Press the SET button. After the addition is completed, the display will indicate "00".



4. To make further additions, repeat the same procedure: press the F BACK or F FWD button to display the track number, then press the SET button.

Changing the Last Portion of a Program

Example: Change the programming from program 4 onward

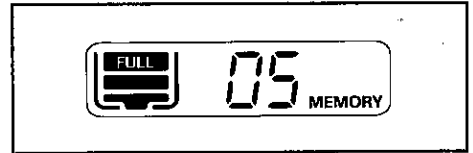
1. Press the SET button to display track number 1 (program number 4).



2. Press the F BACK or F FWD button to set the track number display to "00".



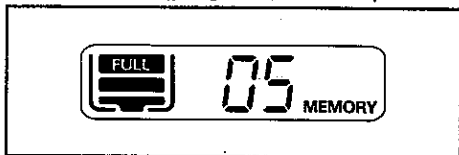
3. Press the SET button to delete program 4 and the following programs. The display will indicate track number 5 (program number 1).



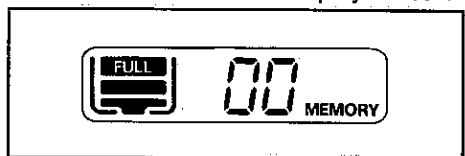
4. Press the SET button to display "00".
5. Program subsequent entries using the following procedure: press the F BACK or F FWD button to display the track number, then press the SET button.

Deleting the Program

1. Press the SET button to select track number 5 (program number 1).



2. Press the F BACK or FFWD button to set the track number display to "00".



3. Press the SET button and the entire program will be deleted.

The programs will be lost in the following circumstances.

- When the disc compartment is opened.
- When the rechargeable nickel-cadmium batteries or the regular batteries are exhausted.
- When the rechargeable nickel-cadmium batteries or the regular batteries have not been installed and the AC adaptor is disconnected.

Normal play without erasing the program

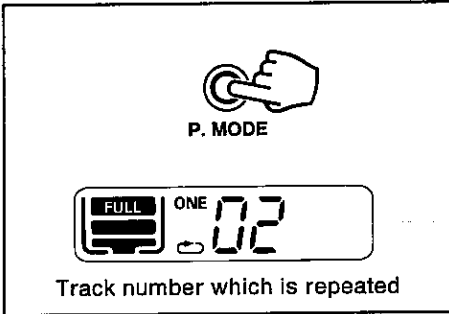
1. Press the P.MODE button during programmed play. When the "MEMORY" display goes out, normal play resumes.
2. To return to programmed play, press the P.MODE button to display "MEMORY", then press the PLAY/PAUSE button.

REPEAT PLAY

SINGLE TRACK REPEAT

Press the P.MODE button once during play.

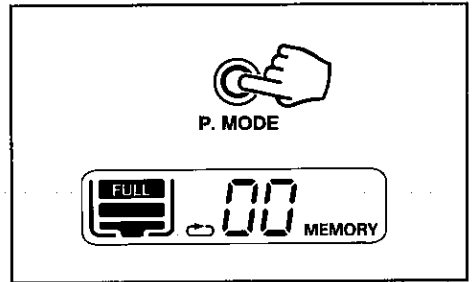
- "ONE ↻" appears in the display.



PROGRAM REPEAT

- 1 Press the P.MODE button three times during play.

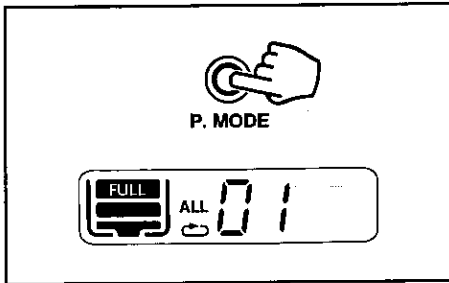
- "↻" appears and "MEMORY" flashes in the display.



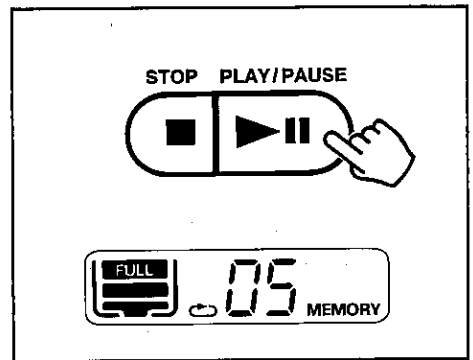
ALL TRACK REPEAT

Press the P.MODE button twice during play.

- "ALL ↻" appears in the display.



- 2 Follow steps 2 ~ 6 under "PROGRAMMED PLAY".



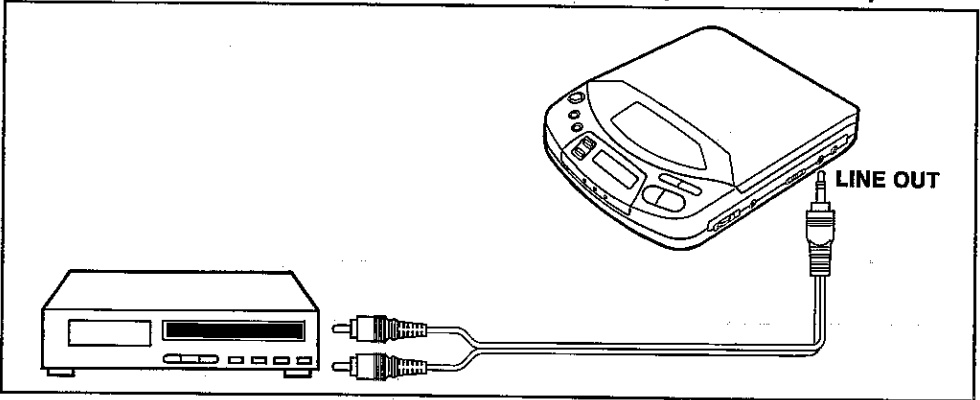
RECORDING FROM THE LINE OUT JACK

The output from the CD player can be recorded.

Connect the supplied patch cable from the LINE OUT jack on the CD player to the LINE INPUT jacks on a cassette recorder.

The sound from the CD can be heard through a pair of speakers.

Connect the supplied patch cable from the LINE OUT jack on the CD player to the AUX or CD INPUT jacks on a stereo system.



CLEANING

CLEANING THE PICKUP LENS

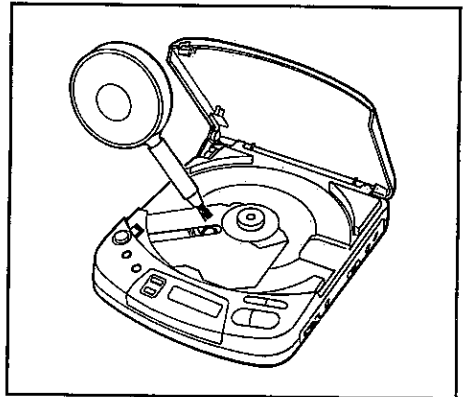
Dust on the pickup lens can lead to erratic operation and interruption of the sound during play.

- To clean the pickup lens, open the compartment lid. Blow the dust off of the lens using a camera lens blower (available at most camera stores).
- Do not touch the surface of the lens.

CLEANING THE CABINET

Use a soft cloth moistened with plain lukewarm water and wrung dry.

Never use benzol, benzene or other strong chemical cleaners, since these could damage the finish. It is important that no liquid reaches the inside of the unit.



CAUTIONS ON USE

Do not place this unit in the following locations:

- Locations where the temperature is high . . .
The unit's cabinet may warp or this unit may otherwise be damaged if it is placed in direct sunlight, near heaters (where the temperature is 60°C or greater) or in cars with the windows closed (in the summer, the temperature may get as high as 100°C or more).
- Humid or dusty locations . . .
Using or setting this unit in dusty or humid locations, such as in bathrooms may result in damage.

Do Not Drop

Do not drop this unit or subject it to strong shocks. Doing so could result in damage.

Should this Unit Become Inoperable . . .

At such a time that this unit fails to respond when buttons are pressed during its operation, press the RESET switch at the bottom of the unit with a pointed item. The unit will again become operable.

Note that the program, repeat, and anti-shock functions are cancelled when the RESET switch is pressed.

Condensation

If cold water is poured into a glass, water droplets form on the outside of the glass. This is called condensation. Condensation may occur on internal operating parts of the lens.

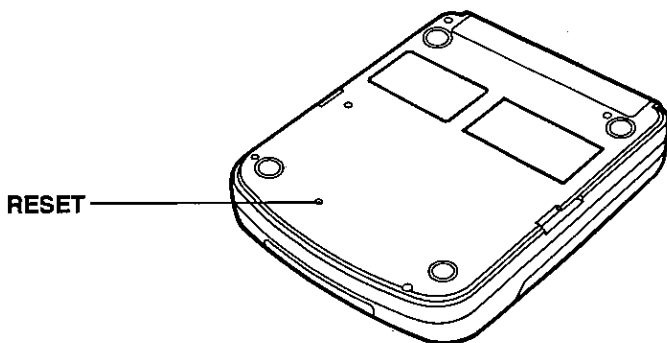
Condensation Occurs:

- When this unit is brought from the cold outdoors into a warm room, or if it is in a cold room which is heated quickly.
- In the summer, if this unit is moved suddenly from an air-conditioned room or car to a hot or humid location.

Should Condensation Occur:

This unit may not operate properly if condensation occurs.

Wait for 1 or 2 hours (to allow the internal parts to adjust to the surrounding temperature) before using the player.



SPECIFICATIONS CDP-55A

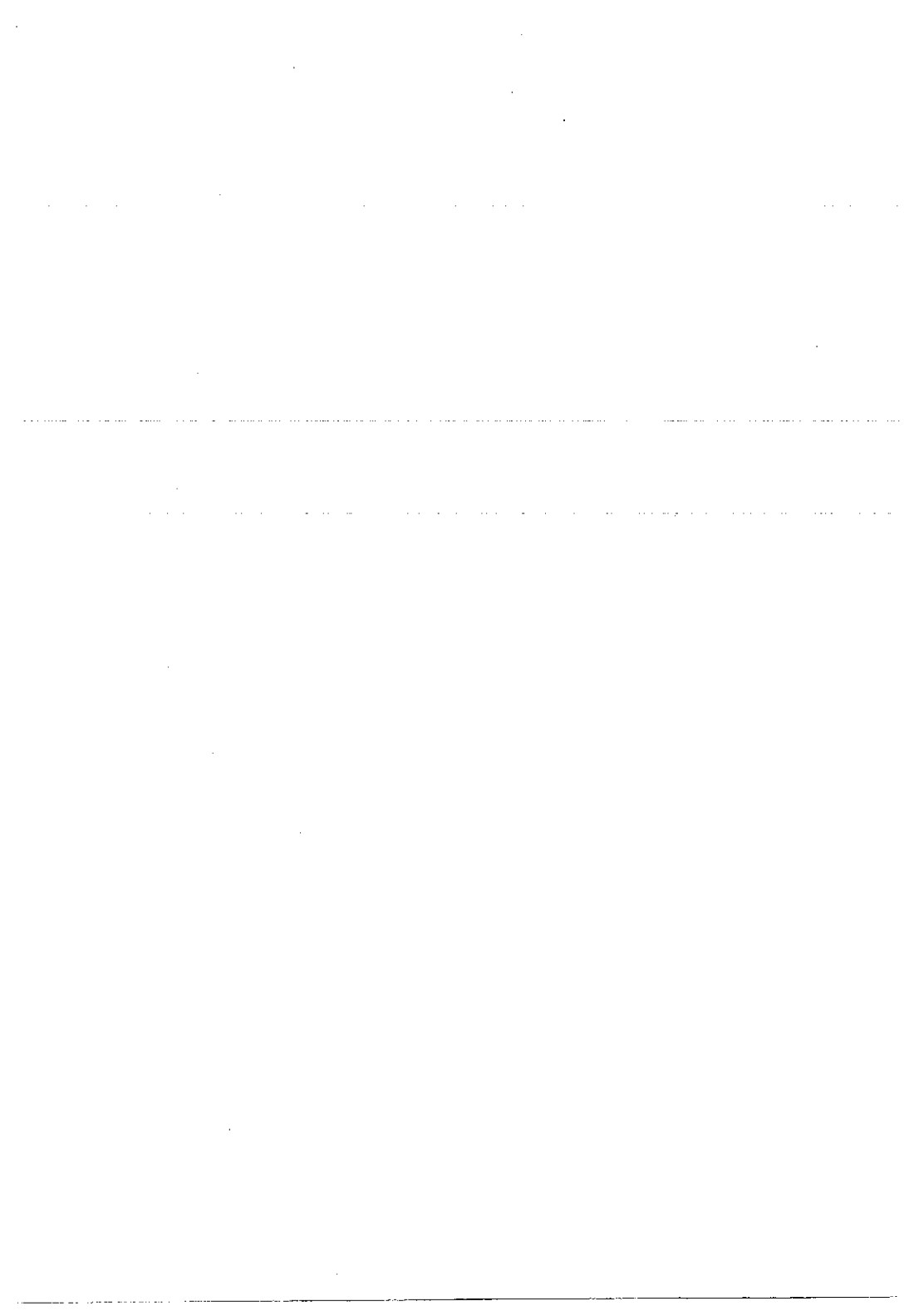
CD Player Section

Frequency Response	20 Hz ~ 20 kHz
Wow and Flutter	Below measurable limits
Sampling Frequency	44.1 kHz
D/A Converter	1-bit
Error Correction Method	CIRC
Pickup	Optical 3-beam semiconductor laser (780 nm wavelength)

General

Maximum Output (stereo earphones)	15 mW + 15 mW
Power Supply	
AC Adaptor	240 V
DC	3V: Using two AA batteries 3V: Using the rechargeable nickel-cadmium battery
Dimensions (Approximate)	
(W x H x D)	129.4 x 32 x 163 mm
Weight (Approximate)	300 g (Main unit only)

- Specifications and product design are subject to change without notice.



SANYO