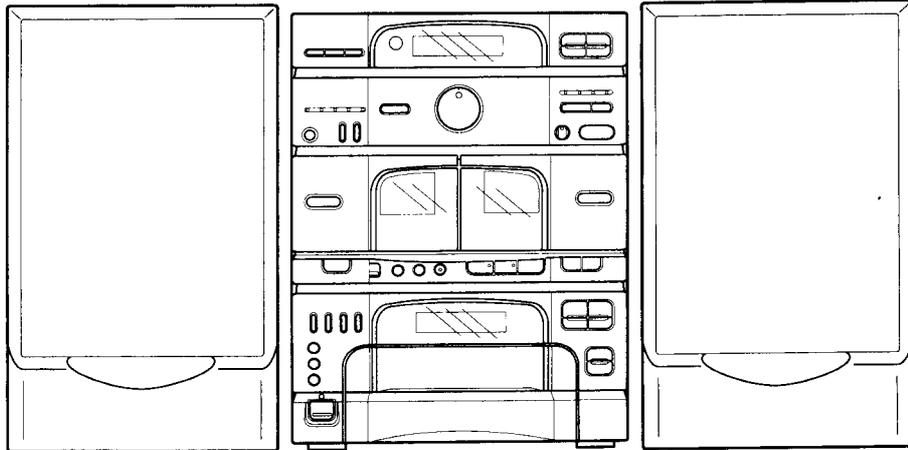




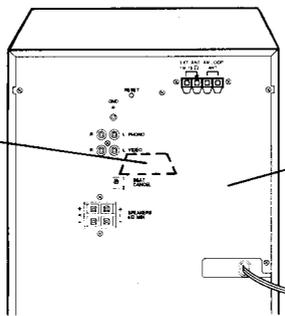
**INSTRUCTION  
MANUAL**

**Mini Component  
System**

**DC-D40**



CAUTION-INVISIBLE LASER RADIATION WHEN PANEL OPEN AND INTERLOCK OVERRIDDEN.



CLASS 1 LASER PRODUCT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASERAPPARAT

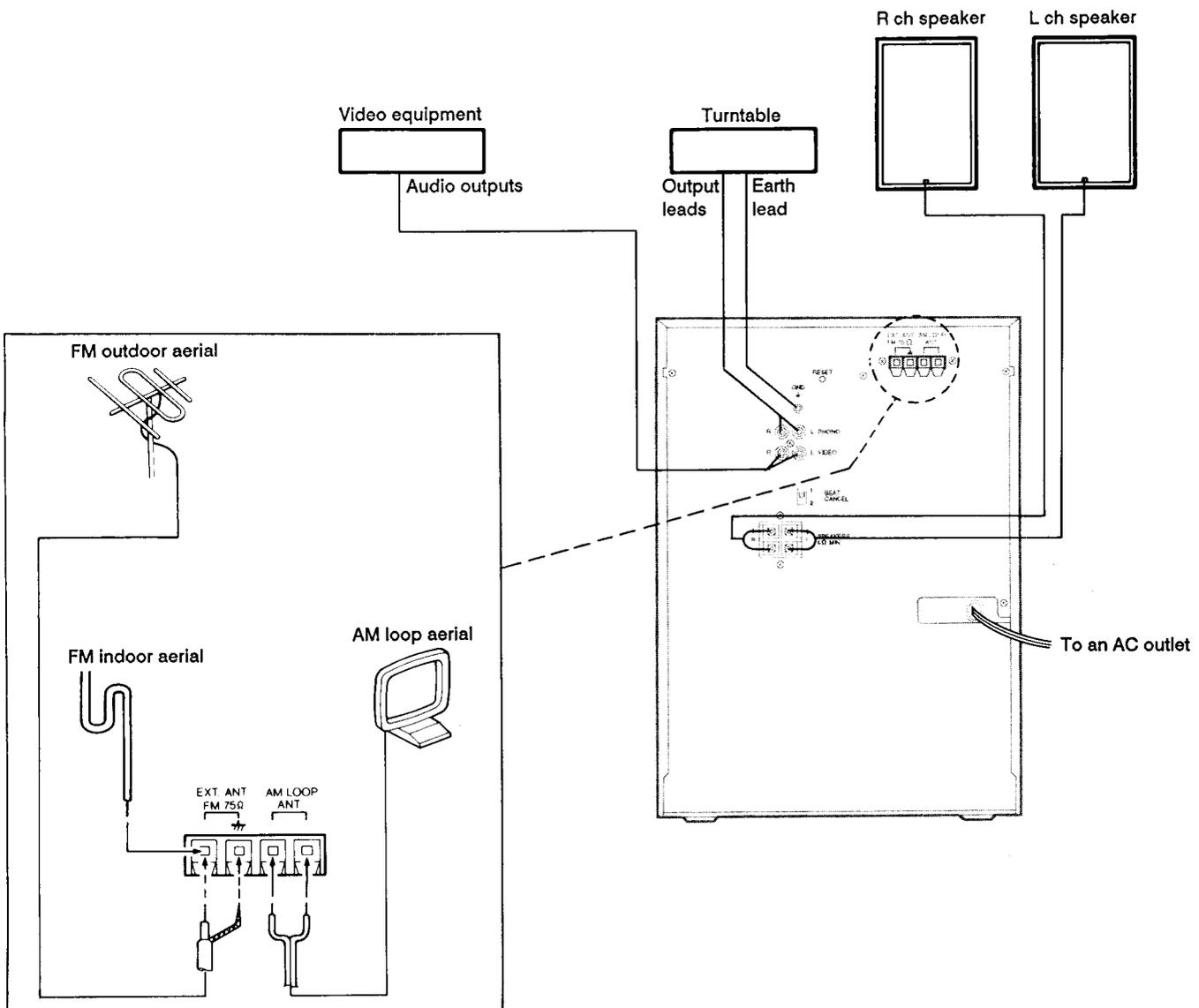
CAUTION - USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OPERATING INSTRUCTIONS MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

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

## PRECAUTIONS

- If water should enter the unit, electrical shock or malfunction may result. Always use it in a place where there is low humidity and little dust.
- Do not use where there are extremes of temperature (below 5°C or exceeding 35°C) or where direct sunlight may strike it.
- Because of the CD player's extremely low noise and wide dynamic range, there might be a tendency to set the volume on the amplifier unnecessarily high. Doing so may produce an excessively large output from the amplifier which could damage your speakers.
- Sudden changes in the ambient temperature may cause condensation to form on the optical lens inside the unit. If this happens, take out the 10-disc magazine, leave the unit with the magazine door opened for about 1 hour, and then proceed to operate.
- Before transportation, remove the magazine from the unit.
- The system's speakers use powerful magnets. Do not place time-pieces, credit cards, cassette tapes or video tapes, etc. near the speakers.

## CONNECTIONS



**Note:**

Do not connect the mains lead to an AC outlet until all connections have been made.

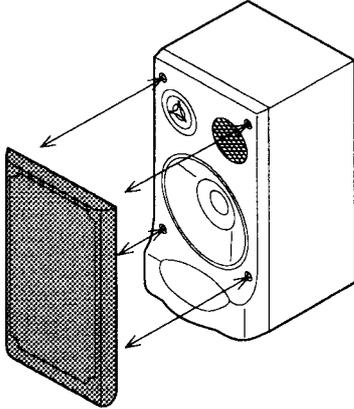
The system is not disconnected from the mains unless the mains lead is unplugged from the AC outlet.

**Speakers**

When connecting the speakers, make sure that (+) and (-) polarities are matched properly. Otherwise, the sound may appear to be lacking in the bass range and in stability.

Connect the speaker wire with the stripe to the red terminal (+) and the other wire to the black terminal (-).

**Attaching and detaching the speaker grille**



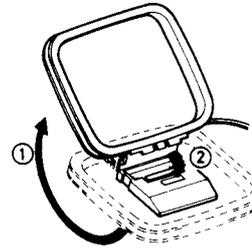
**FM aerial**

The FM indoor aerial is sufficient to receive most local FM broadcasts and should be connected to the EXT. ANT. terminal. Extend the aerial wire as straight as possible and, while listening to the sound from the system, secure it in a position which yields minimal distortion and noise.

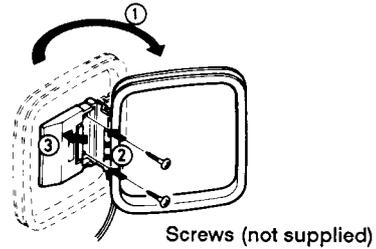
In fringe areas or where reception is distorted or noisy, an FM outdoor aerial (not supplied) should be connected instead of the indoor aerial. The terminals will accept 75-ohm coaxial cable. Consult your dealer.

**AM loop aerial**

Assemble the loop aerial as shown in figure.



Unwind the aerial wires (about 2 turns), then connect them to the AM LOOP ANT. terminals. Place the loop aerial in a position which yields the best AM reception, or attach it to a wall or other surface as shown in figure.



**Note:**

To minimize noise, the speaker, mains and any other leads should not come close to the FM indoor or outdoor aerial lead and AM loop aerial. Do not place the aerial leads close to the system.

**Turntable**

Connect the output leads and earth lead of a turntable (MM type) to the PHONO sockets and GND terminal of the unit respectively.

**Video equipment**

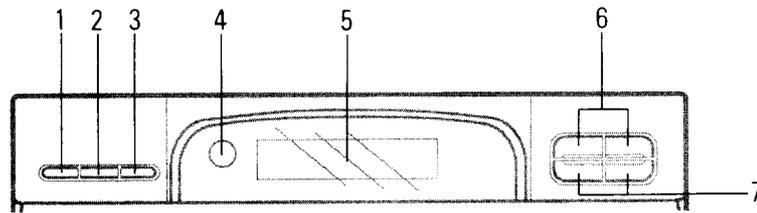
Connect leads (not supplied) from the audio output sockets of a video equipment to the VIDEO sockets.

**Headphones**

Connect stereo headphones (not supplied) to the PHONES socket for monitoring or for private listening. The speakers are automatically disconnected when headphones are connected.

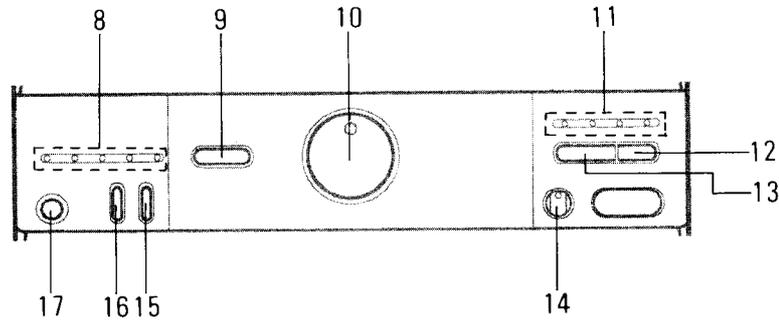
# CONTROLS

## Tuner section



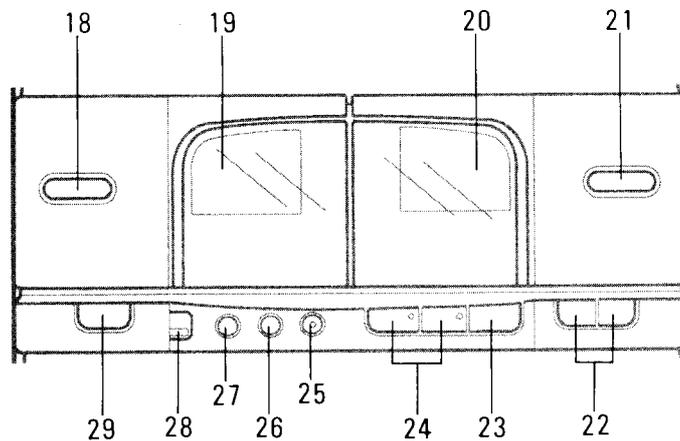
- |  |                              |                                   |
|--|------------------------------|-----------------------------------|
| 1. Memory button (MEMORY)                                | 3. Band select button (BAND) | 6. Tuning buttons (TUNING)        |
| 2. FM mode/Tuning mode select button (FM MODE/TUNE MODE) | 4. Remote sensor (IR)        | 7. Preset tuning buttons (PRESET) |
|  | 5. Display                   |                                   |

## Amplifier section



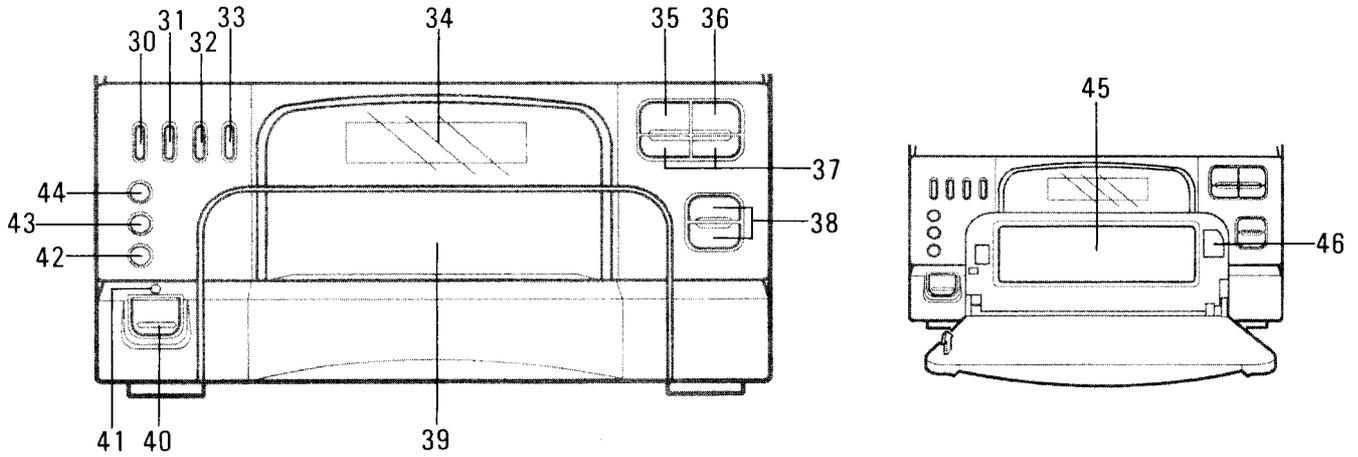
- |  |   |  |
|--|---|--|
| 8. Function indicators (CD/TAPE/TUNER/PHONO/VIDEO) | 11. Sound preset indicators (POP/ROCK/JAZZ/CLASSIC) | 14. Balance control (BALANCE CONTROL)  |
| 9. Function button (FUNCTION)                      | 12. Demonstration button (DEMO)                     | 15. Bass expander button (BASSXPANDER) |
| 10. Volume control (VOLUME)                        | 13. Sound preset button (SOUND PRESET)              | 16. Dolby NR button (DOLBY NR)         |
|  |   | 17. Headphones socket (PHONES)         |

## Cassette deck section



- |                                  |  |  |
|----------------------------------|--|--|
| 18. Deck A eject button (EJECT)  | 23. Stop button (□)                                  | 27. High-speed dubbing button (DUBBING-HIGH) |
| 19. Deck A cassette holder       | 24. Play buttons/indicators (◀▶)                     | 28. Reverse mode select lever (REVERSE)      |
| 20. Deck B cassette holder       | 25. Record/Record pause button/indicator (REC PAUSE) | 29. Deck select button/indicators (A DECK B) |
| 21. Deck B eject button (EJECT)  | 26. Record muting button (REC MUTE)                  |  |
| 22. Fast wind buttons (REW/FFWD) |  |  |

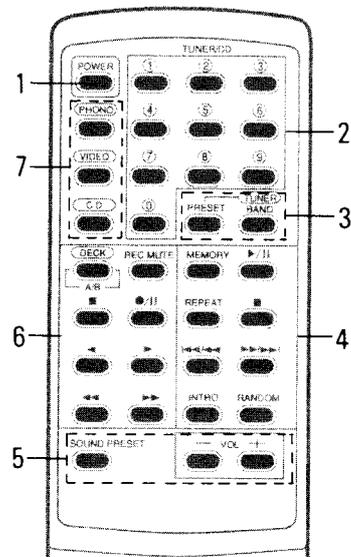
## CD player section



- |                                    |                                       |   |
|------------------------------------|---------------------------------------|---|
| 30. Introscan button (INTRO)       | 36. Stop button (STOP)                | 42. Computer recording button (COMP. REC) |
| 31. Random play button (RANDOM)    | 37. Skip/Search buttons (SKIP/SEARCH) | 43. Time/Fade-out button (TIME/FADE)      |
| 32. CD memory button (CD MEMORY)   | 38. Disc skip buttons (DISC)          | 44. Edit button (EDIT)                    |
| 33. Repeat play button (REPEAT)    | 39. Magazine door                     | 45. Magazine slot                         |
| 34. Display                        | 40. Power button (POWER)              | 46. Eject button (▲)                      |
| 35. Play/Pause button (PLAY/PAUSE) | 41. Standby indicator (STANDBY)       |   |

## REMOTE CONTROL

### Controls



1. Power button (POWER)
2. Number buttons (1 - 9, 0)
3. Tuner controls  
PRESET: Preset tuning button  
TUNER/BAND: Tuner function/  
Band select button
4. CD player controls  
MEMORY: CD memory button

### Number buttons (1 - 9, 0)

These buttons are used to select the DISC numbers or preset radio stations.

If the function is "CD", the buttons select the DISC numbers.

If the function is "TUNER", the buttons select preset radio stations.

With any other function, the buttons will not function.

- Two buttons must always be pressed.

Example:

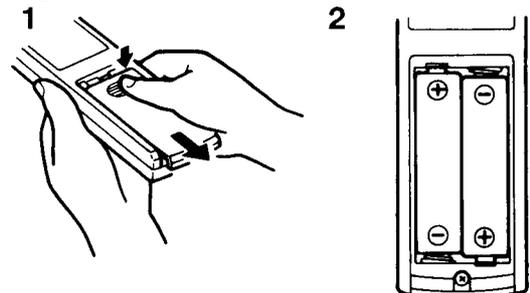
To select No. 3, press 0, then 3.

To select No. 10, press 1, then 0.

To select No. 25, press 2, then 5.

- ▶/|| : Play/Pause button
- REPEAT: Repeat play button
- : Stop button
- ◀/▶ : Skip/Search buttons
- INTRO: Introscan button
- RANDOM: Random play button
- 5. Amplifier controls  
VOL: Volume controls  
SOUND PRESET: Sound preset button
- 6. Deck controls  
DECK A/B: Deck select button  
REC MUTE: Record muting button
- : Stop button
- /|| : Record/Record pause button
- ◀ ▶ : Play buttons
- ◀◀ ▶▶ : Fast wind buttons
- 7. Function controls  
PHONO: Phono function button  
VIDEO: Video function button  
CD: CD function button

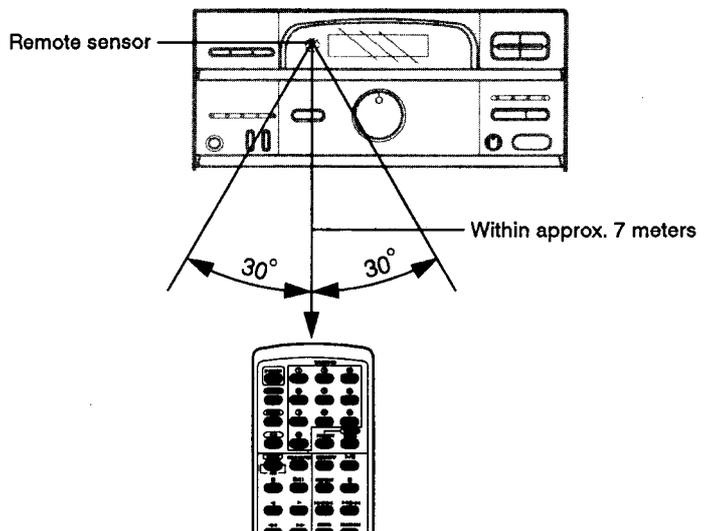
### Inserting batteries



Note:  
Always remove batteries if the remote control is not to be used for a month or more. Batteries left in the unit may leak and cause damage.

**Two AA/SUM-3/R6 batteries**  
(not supplied)

### Remote control range



### Operation

By using the remote control, you can operate the system in the same way as with the controls on the main unit.

# BEFORE OPERATION

## Turning the power on and off

Press the POWER button. The displays light and the STANDBY indicator goes out.

To turn off the power, press the POWER button again. The STANDBY indicator lights.

- When the mains lead is connected to the AC outlet, the STANDBY indicator lights and the unit will respond to commands from the remote control.

## Selecting the function

Press the FUNCTION button to light the desired function indicator.

The function is automatically selected when CD play or tape playback is started, or when the BAND button has been pressed.

- When the function selection is changed, CD play, tape playback or recording is automatically stopped (except during tape dubbing).

## Adjusting the volume

Turn the VOLUME control or press the "+" or "-" VOL control on the remote control.

## Adjusting the left/right speaker balance

Use the BALANCE CONTROL to adjust the left/right speaker balance.

## Bass expander system

Press the BASSXPANDER button to ON to enhance the bass sound.

## Selecting the sound mode

Press the SOUND PRESET button to light the sound mode indicator matching the music to be listened to.

POP: Pops, etc.

ROCK: Rock music, etc.

JAZZ: Jazz, etc.

CLASSIC: Classical music, etc.

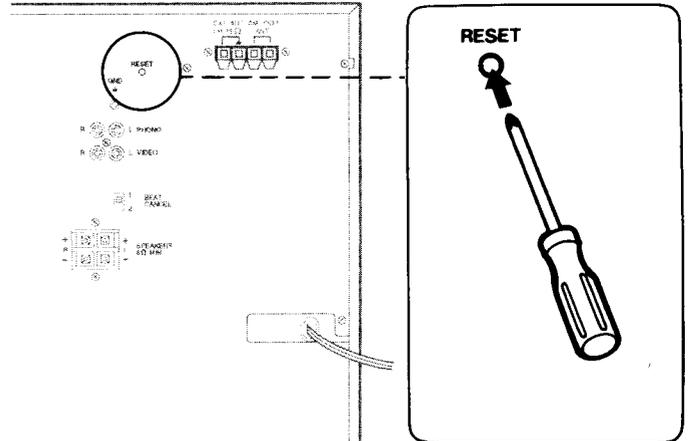
If the DEMO button is pressed, the sound mode changes each 10 seconds as follows:

POP -- ROCK -- JAZZ -- CLASSIC -- POP -- . . .

The operating indicator blinks. To cancel this mode, press the DEMO button again.

## WHAT TO DO IF ...

If the operation of the unit or display is not normal or when all the memory contents are to be cleared, disconnect the mains lead from the AC outlet, then press the RESET button (rear of the unit) for 20 seconds or more.



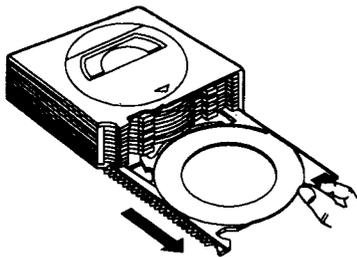
# COMPACT DISC PREPARATIONS

Use compact discs bearing the symbol shown below. In addition to conventional 12 cm CDs, this system can be used to play 8 cm CDs with the 8 cm disc tray.



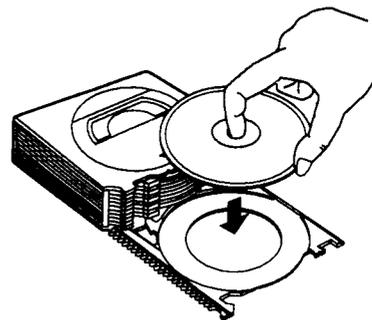
## Storing discs in the 10-disc magazine

1. Pull one of the disc trays out of the magazine.

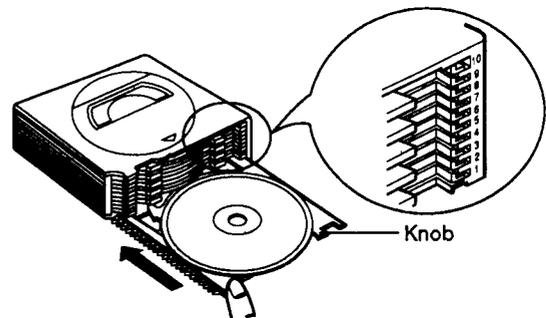


2. Place a disc with the label facing downward on the centre of the disc tray.

- Do not place a disc with the label facing up, or that disc will not be played.



3. Carefully push the disc tray into the magazine until it locks into place.

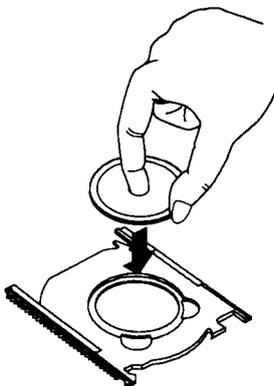


4. Repeat steps 1 - 3 for loading other discs into the magazine. The disc stored in the lowermost tray is disc number 1. (Observe the markings on the side of the magazine.)

### Using the 8 cm CD tray

The supplied small tray is used for 8 cm discs. It is not necessary to use an adaptor.

1. Pull one of the disc trays out of the magazine, then remove it.
2. Place an 8 cm disc with the label facing downward on the centre of the 8 cm CD tray.



3. Carefully push the disc tray into the magazine until it locks into place.

#### Note:

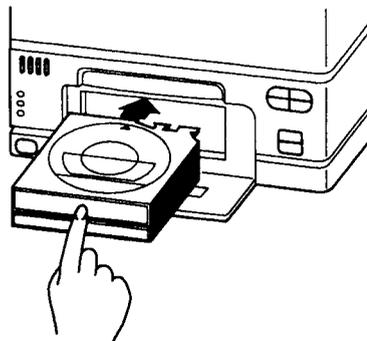
- Discs must be loaded into the magazine one at a time. Do not pull another disc tray out while loading a disc.
- Slide the disc tray in and out in a straight motion when loading or unloading a disc, to prevent damage to the disc.
- Do not apply excessive force to the disc tray.
- When removing a disc tray, take special care to prevent dropping the disc.
- When loading or unloading a disc, do not apply excessive pressure to the top or bottom of the magazine, or the disc may be scratched.
- For easy removal, store the disc trays in the magazine with their knobs facing the right and left sides alternately. The knobs for disc numbers 1, 3, 5, 7 and 9 are on the right, while numbers 2, 4, 6, 8, and 10 are on the left.
- Never use 8 cm CDs with snap-on adaptors! This will damage the inside of the player.

### Notes on handling compact discs

- Do not expose the disc to direct sunlight, high humidity or high temperatures for extended periods of time.
- Discs should be returned to their cases after use.
- Do not apply paper or write anything on the disc surface.
- Handle the disc by its edge. Do not touch the playing surface (glossy side).
- Fingerprints and dust should be carefully wiped off the playing surface of the disc with a soft cloth.  
Wipe in a straight motion from the centre to the outside of the disc.
- Never use chemicals such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean compact discs.

### Inserting a magazine

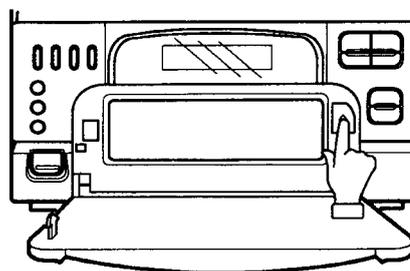
1. Press the top left portion (PUSH-OPEN) on the magazine door to open it.
2. Before inserting the magazine into the slot, confirm that all disc trays are locked into position. Using the magazine without all 10 disc trays may result in a malfunction.
3. Insert the magazine as shown in figure by pressing the centre of the front edge.



4. Close the magazine door.

### Removing a magazine

1. Open the magazine door.
2. Press the ▲ button. Only half of the magazine will come out of the slot.



3. Remove the magazine.

#### Note:

To prevent damage to the discs, do not turn the magazine upside down.

### Precautions for the magazine

- This 10-disc magazine is especially designed for use with SANYO 10-disc multi-play compact disc players, so other disc magazines cannot be used with this unit.
- Do not place anything except a compact disc in the magazine.
- If the magazine will not be used for a long period, store it in its case. Do not store the magazine in direct sunlight or in areas where it will be exposed to unusually high temperatures.
- Do not disassemble the magazine. It is not user-serviceable.
- Be careful not to drop or abuse the magazine.
- Do not use cleaners such as benzene, thinner or antistatic spray to clean the magazine.

# CD PLAY

1. Select "CD" function by pressing the FUNCTION button, or press the CD button on the remote control. "CdON" appears on the display.
2. Insert a magazine as described in "Inserting a magazine".

DISC 0 TRACK 0 INDEX 0 0:00

3. Press the PLAY/PAUSE button.

 DISC 1 TRACK 1 INDEX 1 0:01

"▷" appears, and play starts from the first track on the first disc and continues up to the last track of the last disc.

The disc number, track number, index number and elapsed play time for the current track are displayed.

- If a disc tray is empty or a disc is loaded with the label side up, the unit will skip that disc tray and play will continue with the next disc.
4. Press the STOP button to end disc play. "0 0 0 0:00" appears.

When the last track of the last disc has been played, the player stops automatically.

Note:

If you must disconnect the mains lead, wait at least four seconds before doing so. The unit takes four seconds to store the disc into the magazine after the STOP button is pressed.

## Temporarily stopping play

Press the PLAY/PAUSE button. "▷" is replaced by "|| PAUSE" in the display. To resume play, press the button again.

- If the TIME/FADE button is pressed during play, the sound begins to fade out from that point (10 seconds). The CD player will enter the pause mode.

## Direct track selection

1. Select a disc by pressing the  $\wedge$  or  $\vee$  DISC button.
  - When using the remote control, press two number buttons. (for example: 02, 10, etc.)
2. Press the  $\blacktriangleright/\blacktriangleright\blacktriangleright$  or  $\blacktriangleleft/\blacktriangleleft\blacktriangleleft$  SKIP/SEARCH button to select the desired track.
3. Press the PLAY/PAUSE button to play the selected track.
  - If the disc and track are selected during play, play will immediately begin with the selected track.
  - If only a disc is selected, play will begin from the first track of the selected disc.
  - If a non-existent track number on a disc is selected, play will begin with the last track on this disc.
  - This operation will not function during programmed play.

## Skip play

To skip to track 6 while track 3 is playing, press the  $\blacktriangleright/\blacktriangleright\blacktriangleright$  SKIP/SEARCH button repeatedly until "6" appears in TRACK on the display. To skip back to track 3 while track 6 is playing, press the  $\blacktriangleleft/\blacktriangleleft\blacktriangleleft$  SKIP/SEARCH button repeatedly until "3" appears.

## Search (forward/reverse)

If the  $\blacktriangleright/\blacktriangleright\blacktriangleright$  or  $\blacktriangleleft/\blacktriangleleft\blacktriangleleft$  SKIP/SEARCH button is pressed during play, the player will search at high speed in the forward or reverse direction while the button is being pressed. When the button is released, normal play will continue.

## Introscan

Press the INTRO button to play the first 10 seconds of each track. "INTRO" appears on the display.

- Press the INTRO button again to return to normal play.
- If the INTRO button is pressed during normal play, introscan will start with the next track on the disc.

## Random play

Press the RANDOM button to begin random play. The player will automatically select and play discs and tracks at random. "RANDOM" appears on the display.

- If the RANDOM button is pressed during random play, the player will select the next random track.

## Random introscan play

Press the RANDOM button, then the INTRO button, to play the first 10 seconds of each track at random.

## Repeat play

Before or during play, press the REPEAT button repeatedly to select the desired repeat mode in the following sequence. The selected repeat mode is shown on the display.

REPEAT ONE: Repeat one track

REPEAT ALL: Repeat all tracks on the selected disc

REPEAT CONTINUE: Repeat all the tracks on all discs

None: Normal play mode

- During programmed play, only "REPEAT ONE" and "REPEAT ALL" can be selected.

## PROGRAMMED PLAY

Up to 24 selections, from up to 10 discs, can be programmed for play in any order.

- The tracks are programmed in the stop mode.
- The same track or disc can be programmed more than once.

Example:

To programme tracks 5 and 2 on DISC 3 and all tracks on DISC 2

1. Press the CD MEMORY button.

 PROG.

DISC 1 TRACK - - STEP 1

2. Select DISC 3 by pressing the  $\wedge$  DISC button. "DISC 1" is replaced by "DISC 3" in the display.
  - The number buttons on the remote control can be used for selecting discs.
3. Select track 5 by pressing the  $\blacktriangleright/\blacktriangleright\blacktriangleright$  SKIP/SEARCH button.

 PROG.

DISC 3 TRACK 5 STEP 1

4. Press the CD MEMORY button. "PROG." remains lit.
5. Select track 2 by pressing the  $\blacktriangleleft/\blacktriangleleft\blacktriangleleft$  SKIP/SEARCH button.

 PROG.

DISC 3 TRACK 2 STEP 2

6. Press the CD MEMORY button. "PROG." remains lit.
7. Select DISC 2 by pressing the  $\vee$  DISC button.

 PROG.

DISC 2 TRACK - - STEP 3

8. Press the CD MEMORY button.

PROG.

DISC 2 AL STEP 3

9. Press the PLAY/PAUSE button to start play.

 DISC 3 TRACK 5 INDEX 1 0:01  PROG.

When all programmed selections have played, the player stops automatically.

- The programme contents are retained in memory.

- Up to 24 selections can be programmed. Any attempt to programme more than 24 selections will result in discontinuation of the programming.
- If a track number which is not on the disc or a disc number which is not stored in the magazine has been programmed, "PErr" appears during play and the following programmed track will be played.
- When the STOP button is pressed in the stop mode, the programme is cleared.

## Checking the programme

Each time the CD MEMORY button is pressed in the stop mode, the programmed details sequentially appear on the display.

## Changing a programme

To add a new selection to a programme:

1. In the stop mode, press the CD MEMORY button repeatedly until "- - -" is displayed.

2. Select a disc number and track number as explained above.

To change a selection:

1. In the stop mode, press the CD MEMORY button repeatedly until the selection to be replaced is displayed.
2. Select a disc number and track number as explained above.

Note:

Programmed details cannot be partially deleted or inserted.

# LISTENING TO TAPES

Deck A is for playback only; deck B is for both playback and recording.

1. Select "TAPE".
2. Press the EJECT button to open the cassette holder.
3. Load the cassette(s).  
To load, place the tape with its exposed end at the bottom. After the tape has been loaded, push the cassette holder back into position. The A or B DECK indicator lights.
4. Set the DOLBY NR button to ON or OFF according to whether the tape has been recorded with the Dolby NR system or not.
5. Select deck A or deck B by pressing the DECK button if required. (If only one cassette is loaded, deck A or deck B will be selected automatically.)
6. Press the ▷ or ◁ button to begin playback. The ▷ or ◁ indicator lights.
7. Press the □ button to stop playback at any time.  
When the end of the tape has been reached, automatic stop or reverse will be activated.

## Types of usable tapes

The type of tape used is automatically identified by the system since decks A and B both employ an auto tape selection system. The following types of tape can be used with this system.

Normal  
CrO2

Note:

- CrO2 tapes without sensing holes cannot be used since they cannot be identified by the auto tape selector.
- Endless tapes cannot be used.
- Do not use C-120 tapes. They may jam in the mechanism.

## Auto reverse

In both decks A and B, tapes can be played back in the following 3 ways using the REVERSE lever.



For listening to one side of the tape only.



For listening to both sides of the tape in succession.

- If playback has been started from the reverse side, only the reverse side will be played back.



For listening repeatedly to both sides of the tape.

## Fast forward and rewind

Press the ►► or ◀◀ REW/FFWD button. The ▷ or ◁ indicator blinks. When the tape has been wound to the end, the deck stops automatically.

## Relay playback (continuous playback on decks A and B)

1. Load the cassettes into both decks A and B.
2. Set the REVERSE lever to .
3. Select deck A or deck B by pressing the DECK button if required.
4. Press the ▷ or ◁ button.
  - Relay playback will continue from deck A (or B) to deck B (or A) until the □ button is pressed.

Deck A forward side -- Deck A reverse side -- Deck B forward side --  
Deck B reverse side -- Deck A forward side -- . . .

## Dolby NR system

Dolby Noise Reduction circuitry provides superior recording and playback results by suppressing tape hiss by up to 10 dB.

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

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

Note:

During cassette deck operation, if an operating problem occurs, press the EJECT button and remove the cassette. Reinsert it completely and resume operation.

# LISTENING TO THE RADIO

## Automatic or manual tuning

1. Select "TUNER".
2. Press the BAND button to select FM or AM.
3. For automatic tuning, make sure that "AUTO" is displayed. If not, press the TUNE MODE button to display "AUTO".
4. Press the  $\nabla$  or  $\blacktriangle$  TUNING button to tune in a station.  
The unit stops automatically at the next receivable station. Press the button again to continue.

AUTO  
AM 594 kHz

- When receiving a station with weak signals, press the TUNE MODE button to turn off "AUTO" (Manual tuning). Press the  $\nabla$  or  $\blacktriangle$  TUNING button continuously until you are close to the desired frequency, then press it briefly until the desired frequency is displayed. Each time the button is pressed, the frequency changes in 0.05 MHz steps for FM and 9 kHz steps for AM.

## To preset stations

### Automatic presetting

1. Select "TUNER".
2. Press and hold down both  $\nabla$  and  $\blacktriangle$  PRESET buttons for at least 2 seconds. "APT" blinks on the display.  
The automatic tuning mode is set and automatic presetting begins from the low end of the FM band.

$\nabla$   $\blacktriangle$   
APT AUTO  
FM 90.75 MHz CH 02

When 36 stations have been preset or the high end of the AM band is reached, automatic presetting stops. "APT" disappears and the channel number 1 station will be heard.

### Manual presetting

Up to 36 stations (for example: 26 FM and 10 AM stations) can be preset in any order.

Note:

Each preset can be set for one FM or one AM station. The presets can be programmed for any combination of FM and AM stations.

1. Tune in the station to be preset as described in "Automatic or manual tuning".
2. Press the MEMORY button. "MEMO" blinks.

AUTO  $\nabla$   $\blacktriangle$  MEMO  
FM 103.25 MHz CH - -

3. Press two number buttons (for example: 09, 10, 25, etc.) on the remote control to preset the station. "MEMO" disappears.
  - When using the PRESET buttons, press the  $\nabla$  or  $\blacktriangle$  button to select the desired channel number, then press the MEMORY button.

AUTO  
FM 103.25 MHz CH 09

- In this example, "FM 103.25 MHz" station is preset on channel number 9 (CH 09).

Note:

If the next step is not taken within 10 seconds in steps 2 - 3, "MEMO" disappears and the preset operation is cancelled. Press the MEMORY button to continue.

4. Repeat steps above, to add more preset stations.

- When presetting a new station, the previously preset station on the same channel is cleared.
- The preset stations will be retained in the memory even if the unit is turned off.  
If the memory contents are lost due to a power failure or other condition, preset the stations again.

Note:

If the band does not change when the BAND button is pressed, while presetting or changing stations, use the PRESET button to find the desired band.

If the band does not change with the PRESET button, disconnect the mains lead, then press the RESET button (rear of the unit) for at least 20 seconds. Connect the mains lead and resume operation. In this case, memory contents must be reset.

## Listening to preset stations

1. Select "TUNER".
2. Press two number buttons on the remote control within 3 seconds, or the  $\nabla$  or  $\blacktriangle$  PRESET button to select the desired channel number.
  - For receiving an FM stereo broadcast, make sure that "MONO" is not displayed. If "MONO" appears, press the FM MODE button to turn the "MONO" indication off. "STEREO" appears when an FM stereo broadcast is received.
  - If the signals from an FM stereo station are weak and reception is poor, press the FM MODE button to change to monaural reception. ("STEREO" is replaced by "MONO" in the display.)
  - If a channel number which has not been preset is selected, "- .- ." appears for 2 seconds and the previous station is selected.

### Changing the AM reception frequencies

It is not necessary to perform this procedure in the Australia and New Zealand.

1. Select the AM band.
2. Turn the power off.
3. While pressing the BAND button, press the POWER button.

522 - 1710 kHz (9 kHz steps)  $\longleftrightarrow$  520 - 1710 kHz (10 kHz steps)

# LISTENING TO RECORDS OR VIDEO SOURCES

1. Select "PHONO" or "VIDEO".

2. Follow the instructions supplied with the turntable or video equipment.

## BEFORE RECORDING AND DUBBING

**Recording copyright material without permission of the copyright owners is usually an infringement. If you wish to re-record copyright material, permission from the copyright owner is necessary. SANYO does not approve of, and cannot be held responsible for, any unlawful use of this machine.**

Use deck B for recording.

1. Press the EJECT button and load the cassette for recording.
2. Set the DOLBY NR button to ON or OFF as desired.
3. Set the reverse mode with the REVERSE lever.



For recording one side only.



For recording both sides in succession.

- If recording has been started from the reverse side, only the reverse side will be recorded.
- If a tape with one of its tabs already broken out is used for recording, the tape will not be reversed automatically, and it will stop.
- If the REC PAUSE, COMP. REC or DUBBING-HIGH button is pressed while the  mode is selected, the unit will operate as if the  is selected.

Recording will start in the forward direction under the following conditions:

- When CD computer recording is used
- When tape high-speed dubbing is used

### Automatic record muting

Undesirable parts of a programme can be omitted while recording. Press the REC MUTE button once while recording. The REC PAUSE

indicator blinks and a 5-second unrecorded blank space is created, then the cassette deck enters the record pause mode.

To resume recording, press the REC PAUSE button.

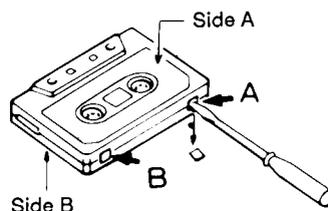
Note:

- The record muting function does not operate during CD computer recording or tape high-speed dubbing.
- To create an unrecorded blank of any length, hold down the REC MUTE button for the required time. The deck enters the record pause mode when the button is released.

### Accidental erasure prevention tabs (for protecting valuable recordings)

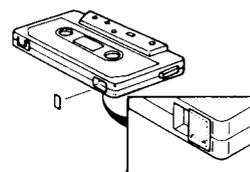
Accidental erasure can be prevented by breaking out the tabs on the end of the cassette tape (where the tape is not exposed) using a screwdriver or similar implement.

If a tab is broken out in error and you wish to re-record the tape, simply block the tab hole using adhesive tape and the tape can be used for recording again.



Break out tab A for side A.  
Break out tab B for side B.

For CrO<sub>2</sub> tape



# RECORDING COMPACT DISCS

## COMPUTER RECORDING

With computer recording, a CD can be automatically recorded on a cassette by pressing one button.

1. Insert a magazine.
2. Load a blank cassette into deck B.
3. Select "CD".
4. Press the COMP. REC button. The system automatically performs the following functions:

Deck B:

- The tape rewinds to the beginning.
- Recording starts.

CD player:

- The player searches for the first disc and the first track to be recorded, then enters the pause mode.
- CD play starts.

The DECK B, REC PAUSE and ▷ indicators light, "COMPUTER REC" and "SIDE A" appear on the display as recording begins.

- A 5-second blank space is automatically recorded at the end of each track.
- The highest track number which can be edited is 24. Track numbers 25 and above cannot be edited (except with backward skip edit).
- To stop computer recording at any time, press the STOP button of the CD player or the □ button of deck. The CD player and deck B will stop. (The time edit, programme edit or fade-out edit mode is still operational.)  
To release the editing mode, press the STOP button of the CD player.
- Select "↶" mode during computer recording.
- To record material from a different position on the tape, continue recording manually.

## Types of edit recording

The following edit recording operations can be performed during computer recording.

- A. Time edit recording
- B. Programme edit recording
- C. Fade-out edit recording
- D. Backward skip edit recording

Note:

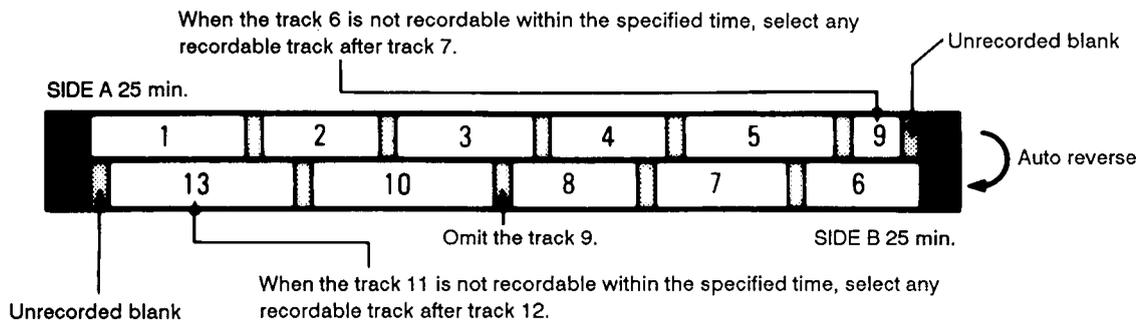
- Recording starts automatically after 8 seconds, so the recording will not be interrupted by the leader tape at the beginning of sides A and B.

## Time edit recording

The tracks that will fit within a selected time period are automatically programmed for recording on sides A and B of the tape. (The tracks are edited so that the remaining time on the tape is reduced to a minimum).

Example:

To record onto a 50-minute tape (using DISC 2)



1. Press the EDIT button.



2. Select DISC 2 by pressing the ^ DISC button.

- The number buttons on the remote control can be used for selecting discs.



3. Press the EDIT button to select the recording tape length.



- Each time the EDIT button is pressed, the tape length display changes in the following sequence:

C-46 -- C-54 -- C-60 -- C-74 -- C-90 -- C- --- C-46 -- . . .

4. Press the TIME/FADE button once.

- The total play time for side A is displayed.
- The total play time for side B is displayed.
- The total play time for both sides is displayed.

TOTAL EDIT PROG.  
DISC 2 C-50 49:45 SIDE A  
SIDE B

5. Press the COMP. REC button.

- The total play time for side A is displayed.
- The total play time for side B is displayed.
- Recording starts automatically from track 1.



- The edit mode remains operational when recording ends. To cancel the edit mode, press the STOP button of the CD player.

To set the desired tape length up to C-99, use the SKIP/SEARCH buttons. To set "C-50", select "C-46", then press the ►► / ►► SKIP/SEARCH button 4 times. "C-50" appears.

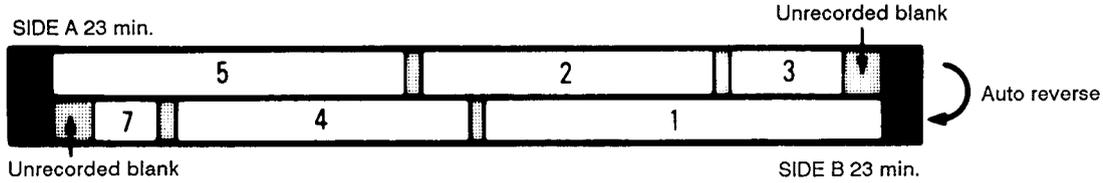
- The number buttons on the remote control can also be used.

## Programme edit recording

The desired selections can be rearranged and recorded on the tape within a designated tape length.

Example:

To record onto a 46-minute tape (using DISC 2)



1. Press the EDIT button.
2. Select the recording disc by using the DISC buttons.
3. Press the EDIT button until "C-46" appears.
4. Press the CD MEMORY button.

REMAIN EDIT PROG.  
SIDE A

DISC 2 TRACK 1 STEP 1 11:51

The remaining time on side A is shown on the time display.

5. Select the track to be recorded by using the SKIP/SEARCH buttons.

REMAIN EDIT PROG.  
SIDE A

DISC 2 TRACK 5 STEP 1 13:00

6. Press the CD MEMORY button. "PROG." remains lit.
7. Repeat steps 5 - 6 to programme the tracks to be recorded onto side A.

- If a track exceeding the remaining time on side A is selected, its play time blinks on the display. When the CD MEMORY button is pressed, "SIDE A" disappears and "SIDE B" appears. The remaining time on side B appears on the display. This and subsequent tracks are recorded on side B.
- 8. Repeat steps 5 - 6 to programme the tracks to be recorded onto side B.
  - If a track exceeding the remaining time on side B is programmed, "Err" will appear on the display for 5 seconds.
- 9. Press the COMP. REC button.
  - The total play time for side A is displayed.
  - The total play time for side B is displayed.
  - Recording starts automatically from the first programmed track.

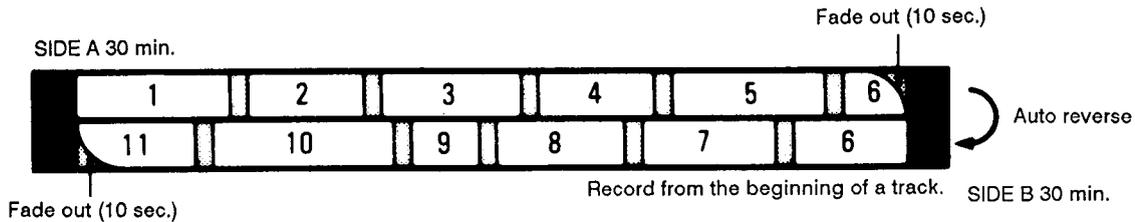
EDIT PROG.  
COMPUTER REC SIDE A  
DISC 2 TRACK 5 INDEX 1 0:01

## Fade-out edit recording

The sound is automatically faded out at the end of sides A and B, according to the selected tape length. After the tape reverses from side A to B, recording continues from the beginning of the last track played.

Example:

To record onto a 60-minute tape (using DISC 2)



1. Press the EDIT button.
2. Select the recording disc.
3. Press the EDIT button until "C-60" appears.
4. Press the TIME/FADE button twice.
  - The track number to be faded out and the available play time for side A are displayed.
  - The track number to be faded out and the available play time for side B are displayed.
  - The total play time for both sides is displayed.

TOTAL EDIT FADE SIDE A  
SIDE B

DISC 2 C-60 60:00

5. Press the COMP. REC button.
  - The track number to be faded out and the available play time for side A are displayed.

- The track number to be faded out and the available play time for side B are displayed.
- Recording starts from the beginning of track 1.

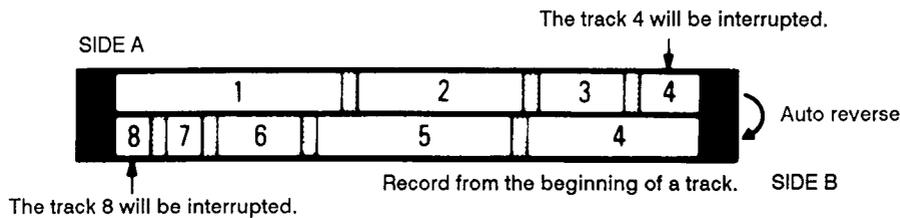
EDIT FADE  
COMPUTER REC SIDE A  
DISC 2 TRACK 1 INDEX 1 0:01

- "FADE" blinks during fade-out (10 seconds).
- The sound is also faded out when a track is interrupted at the end of side B.
- If "END" appears during step 4, it indicates that the disc will reach the end before the end of the tape. In this case, the last track on the disc will not be faded out.
- No recording is made on the last 15 seconds of the tape.

## Backward skip edit recording

This type of recording is the easiest to perform and the tape length setting is not required.

Example:



1. Select the desired disc.
2. Press the COMP. REC button. Recording starts on side A with track 1. When the tape automatically reverses, the display changes from

"SIDE A" to "SIDE B" and recording continues from the beginning of the last track played.

## MANUAL RECORDING

1. Select the desired disc.
  - For programmed recording, programme the material in advance (as described under "PROGRAMMED PLAY").
2. Press the REC PAUSE button of the deck. (The deck B enters the record pause mode.)
3. Press the PLAY/PAUSE button of the CD player. CD recording starts.

- When the CD player is set to the stop or pause mode during recording, the deck B pauses. When CD play is resumed, deck B recording also resumes.
- This method produces a gap in recording when the tape reverses.
- If the TIME/FADE button is pressed during recording, the sound begins to fade out from that point (about 10 seconds). The CD player pauses and the deck B is placed in the record pause mode.

## TAPE DUBBING (DECK A to DECK B)

### High-speed dubbing

For simple, automatic dubbing in one-half the time, compared to normal speed dubbing.

### Manual (normal-speed) dubbing

For dubbing while listening to the playback from deck A.

- Load the playback tape into deck A and a blank tape into deck B.
- It is recommended to use the same length cassettes in both decks for the dubbing operation.
- You may listen to any other function (CD, radio etc.) during dubbing.

### High-speed dubbing

Press the DUBBING-HIGH button.

The system performs the steps below and automatically starts deck A playback and deck B recording.

1. Deck A: Tape rewinds.
2. Deck B: Tape rewinds.
3. Deck B: Erases the first few seconds of the tape, then rewinds again.
4. Deck B: Automatically advances the tape past the leader.

The REC PAUSE indicator blinks and the DECK B and  $\triangleright$  indicators light as dubbing begins.

### Automatic stop during high-speed dubbing

#### $\overline{\overline{\text{D}}}$ mode:

When deck A or deck B stops automatically, the other deck will also stop.

#### $\overline{\text{D}}$ mode:

When deck A tape is longer than deck B:

When deck B stops automatically, deck A enters the fast forward mode. When the end of side A is reached, high-speed dubbing continues from the beginning of side B.

When deck B tape is longer than deck A:

When deck A stops automatically, deck B erases the tape to the end of side A. When the end of side A is reached, high-speed dubbing continues from the beginning of side B.

- Before pressing the DUBBING-HIGH button, check that both decks A and B are in the stop mode.
- To stop dubbing, press the  $\square$  button. The tape will not stop during high-speed dubbing if the REC PAUSE button is pressed.
- During high-speed dubbing, normal monitoring is not possible.
- During dubbing, the DOLBY NR button has no effect to the copied tape.
- A high-pitched sound may be recorded if high-speed dubbing is used near a TV which has been switched on. If this happens, switch off the TV or place the system at a distance from the TV.
- High-speed dubbing must start from the selection 1. To start dubbing from a position in the middle of the tape, use manual dubbing.

### Manual (normal-speed) dubbing

- Select "TAPE".

- Set the REVERSE lever to  $\overline{\overline{\text{D}}}$ .

1. Deck B: Locate the tape position where recording will begin.
2. Deck A: Select  $\triangleright$  or  $\triangleleft$  (to match the deck B), then locate the selection of the tape to be dubbed.

3. Press the REC PAUSE button.

The REC PAUSE and DECK B indicators light and the  $\triangleright$  or  $\triangleleft$  indicator blinks.

Note:

If the blinking indicator does not match the desired direction, press the  $\triangleright$  or  $\triangleleft$  button to change the direction.

4. Press the DECK button to select deck A.

The DECK B indicator goes out and DECK A indicator lights. The REC PAUSE indicator blinks.

5. Press the  $\triangleright$  or  $\triangleleft$  button whose indicator is blinking. Manual dubbing starts.

- Both decks run in the same direction.

### Automatic stop during manual dubbing

If deck A or deck B stops automatically, the other deck will also stop.

# RECORDING FROM THE TUNER, PHONO OR VIDEO INPUT

1. Tune in the radio station to be recorded, or play a record, video cassette or video disc.
2. Press the REC PAUSE button. The REC PAUSE indicator lights and the ▷ or ◁ indicator blinks.
  - When using the remote control, press the ●/|| button.
3. Press the REC PAUSE button again or press the ▷ or ◁ button whose indicator is blinking.  
The recording starts. The ▷ or ◁ indicator remains lit.
  - To record in the opposite direction to that indicated by the blinking indicator, press once the button whose indicator is not blinking, check that the other indicator is now blinking, and press the same button again.

4. Press the REC PAUSE button to temporarily stop recording. Press the button again to continue.
5. Press the □ button to stop recording.

## When beat interference is heard

A high-pitched noise called "beat" is sometimes heard during the recording of radio broadcasts.

In cases like this, set the BEAT CANCEL switch at the rear of the unit to the position (1 or 2) which will reduce the level of the beat noise.

## MAINTENANCE

### Cleaning the decks A and B heads

To ensure playback and recording with good-quality sound, use cotton swab to clean the heads, pinch rollers and capstans of the decks after about every 10 hours of use.

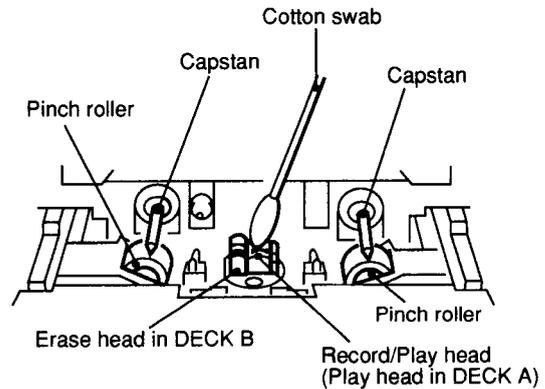
If the dirt persists, soak the swab in a little methylated spirit or head cleaning fluid and then clean.

### Main unit

Use a soft cloth to remove dirt on the main unit.

If the dirt persists, dip a soft cloth into a diluted solution of neutral detergent, wring it out, wipe away the dirt, and then take up any moisture with a dry cloth.

Do not use benzene, thinners or alcohol since they will mar the finish of the surfaces.



# SPECIFICATIONS

## Tuner section

Reception frequency:  
FM: 87.5 - 108 MHz  
AM: 522 - 1710 kHz

## CD player section

Type:  
10-disc magazine changer  
Channels:  
2-channel stereo  
Sampling frequency:  
44.1 kHz  
Pick-up:  
Optical 3-beam semiconductor laser  
Frequency response:  
20 Hz to 20 kHz  
Wow/flutter:  
Below measurable limits

## Cassette deck section

Track system:  
4-track, 2-channel stereo  
Frequency response:  
50 Hz to 14.5 kHz (CrO<sub>2</sub> tape)  
50 Hz to 13.5 kHz (Normal tape)  
Signal-to-noise ratio:  
60 dB (Dolby NR ON)  
Wow/flutter:  
0.12% (WRMS)  
Fast forward/rewind time:  
Approx. 110 sec. (C-60)

## Amplifier section

Output power:  
30 W x 2 (at 6 ohms, 10% distortion)  
Sound preset:  
Four electronic presets  
Inputs  
PHONO: 2.5 mV/50k ohms  
VIDEO: 250 mV/50k ohms  
Outputs  
SPEAKERS: 6 ohms  
PHONES: 8 - 32 ohms

## Power requirements:

AC 230 - 240 V, 50 Hz

## Power consumption:

90 W

## Dimensions:

270(W) x 356(H) x 315(D) mm

## Weight:

9 kg

## Speaker systems

### Type:

3 way bass reflex

### Unit used:

Woofer: 12 cm cone type

Mid range: 5 cm cone type

Tweeter: ceramic

### Maximum power-handling capacity:

60 W (peak)

### Nominal impedance:

6 ohms

### Dimensions:

200(W) x 356(H) x 207(D) mm

### Weight:

3 kg (per speaker)

Specifications subject to change without notice.

The SANYO logo is displayed in a bold, black, sans-serif font. The letters 'S', 'A', and 'Y' are significantly larger and more prominent than the letters 'N', 'O', and 'O'. The 'S' and 'A' are connected, and the 'Y' is also connected to the 'O' that follows it. The second 'O' is smaller and positioned to the right of the first 'O'. The logo is centered horizontally at the bottom of the page.