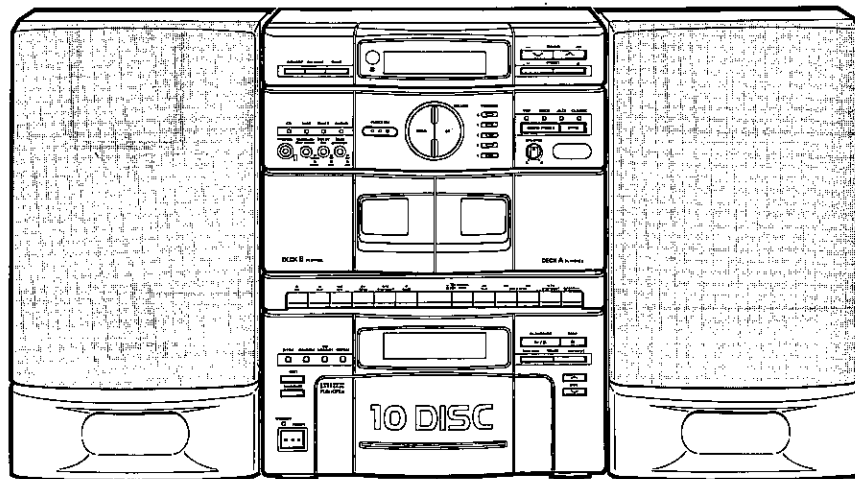


# SANYO

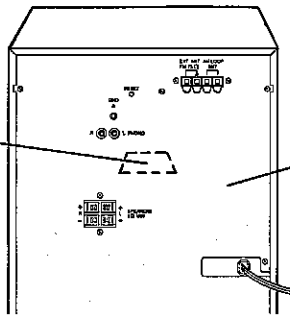
**INSTRUCTION  
MANUAL**

**Mini Component  
System**

**DC-D15**



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



CLASS 1 LASER PRODUCT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASERAPPARAT

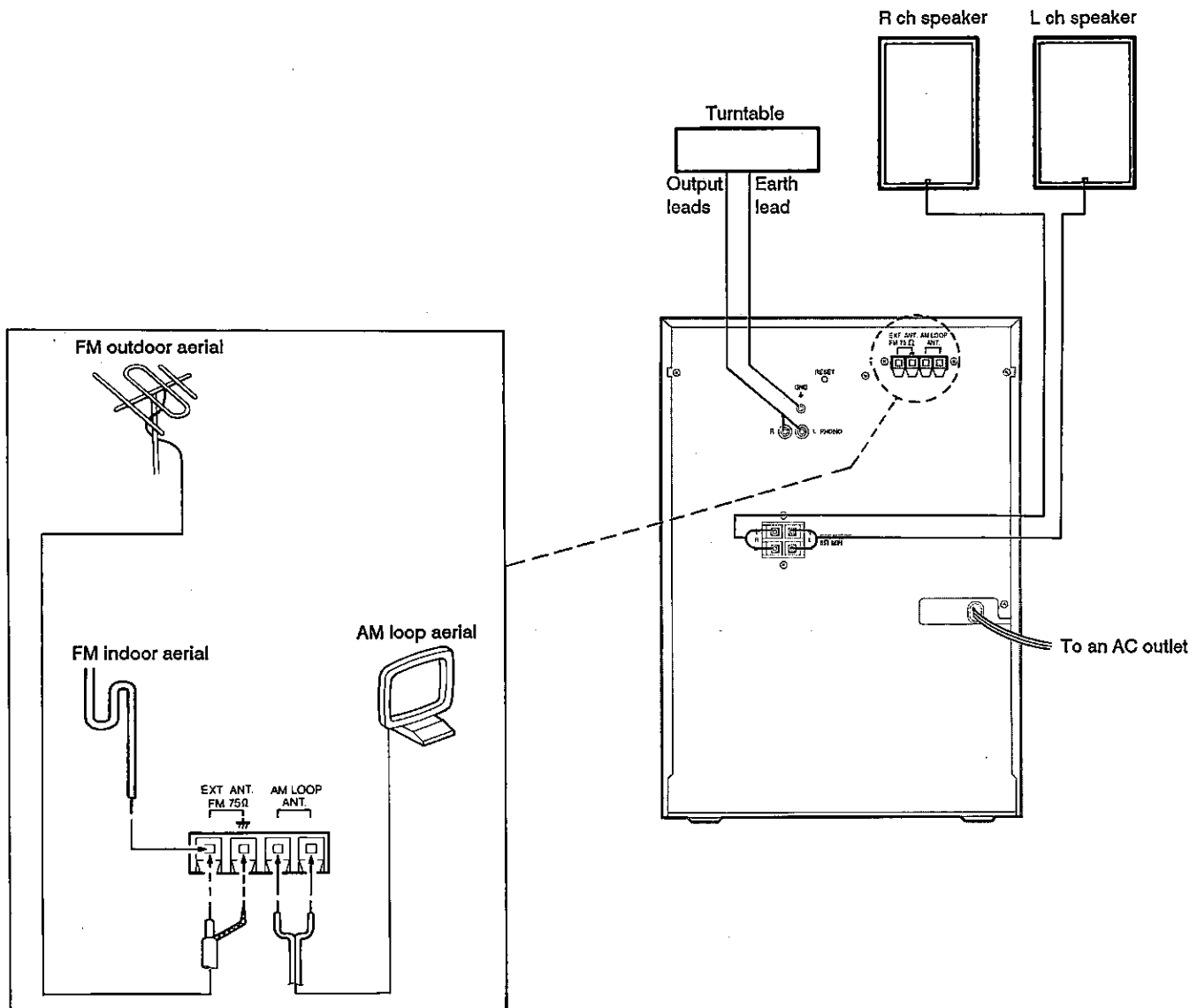
CAUTION - USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OPERATING INSTRUCTIONS MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

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 (-).

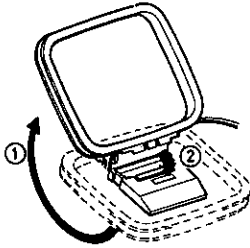
**FM aerial**

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.

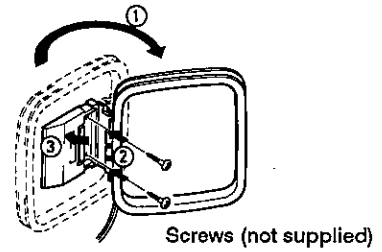
In fringe areas or where reception is distorted or noisy, an FM outdoor aerial (not supplied) should be connected instead of the indoor aerial. The terminals will accept 75-ohm coaxial cable. Consult your dealer.

**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**

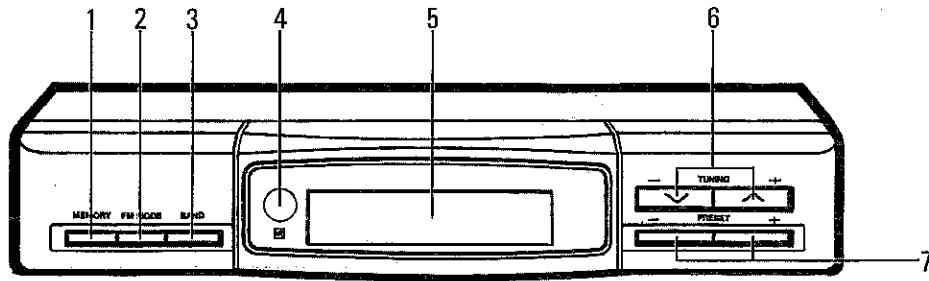
Connect the output leads and earth lead of a turntable (MM type) to the PHONO sockets and GND terminal of the unit respectively.

**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.

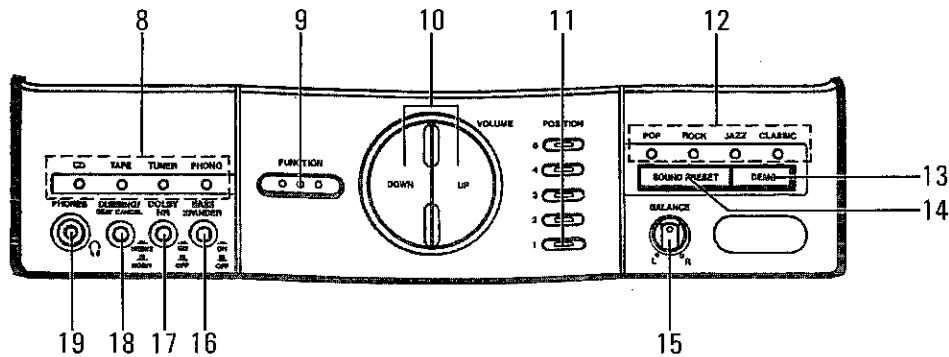
# CONTROLS

## Tuner section



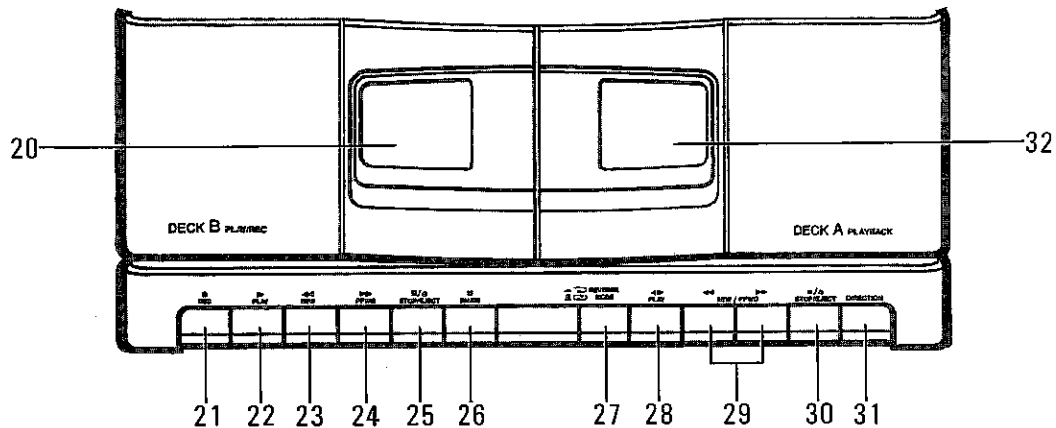
- |                              |                             |                                    |
|------------------------------|-----------------------------|------------------------------------|
| 1. Memory switch (MEMORY)    | 4. Remote sensor (IR)       | 7. Preset tuning switches (PRESET) |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

## Amplifier section



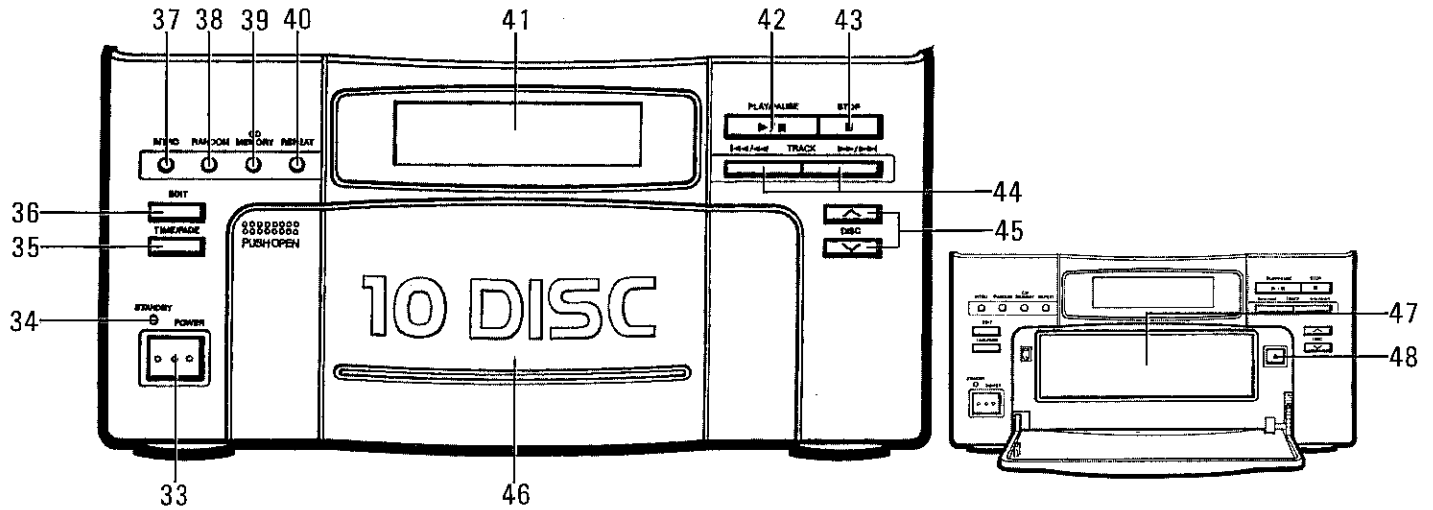
- |  |   |  |
|--|---|--|
| 8. Function indicators (CD/TAPE/TUNER/PHONO) | 12. Sound preset indicators (POP/ROCK/JAZZ/CLASSIC) | 16. Bass expander switch (BASSXPANDER)                     |
| 9. Function switch (FUNCTION)                | 13. Demonstration switch (DEMO)                     | 17. Dolby NR switch (DOLBY NR)                             |
| 10. Volume controls (VOLUME)                 | 14. Sound preset switch (SOUND PRESET)              | 18. Dubbing speed/Beat cancel switch (DUBBING/BEAT CANCEL) |
| 11. Volume position indicators (POSITION)    | 15. Balance control (BALANCE)                       | 19. Headphones socket (PHONES)                             |

## Cassette deck section



- |                                |  |                                    |
|--------------------------------|--|------------------------------------|
| <b>DECK B</b>                  | 25. Stop/Eject button (STOP/EJECT)     | 29. Fast wind buttons (REW/FFWD)   |
| 20. Cassette holder            | 26. Pause button (PAUSE)               | 30. Stop/Eject button (STOP/EJECT) |
| 21. Record button (REC)        | <b>DECK A</b>                          | 31. Direction button (DIRECTION)   |
| 22. Play button (PLAY)         | 27. Reverse mode button (REVERSE MODE) | 32. Cassette holder                |
| 23. Rewind button (REW)        | 28. Play button (PLAY)                 |                                    |
| 24. Fast forward button (FFWD) |  |                                    |

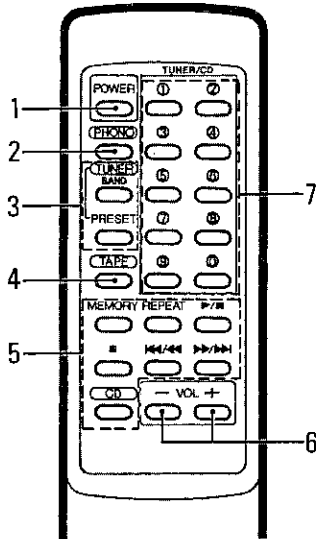
## CD player section



- |                                      |                                    |                               |
|--------------------------------------|------------------------------------|-------------------------------|
| 33. Power switch (POWER)             | 39. CD memory switch (CD MEMORY)   | 45. Disc skip switches (DISC) |
| 34. Standby indicator (STANDBY)      | 40. Repeat play switch (REPEAT)    | 46. Magazine door             |
| 35. Time/Fade-out switch (TIME/FADE) | 41. Display                        | 47. Magazine slot             |
| 36. Edit switch (EDIT)               | 42. Play/Pause switch (PLAY/PAUSE) | 48. Eject switch (▲)          |
| 37. Introscan switch (INTRO)         | 43. Stop switch (STOP)             |                               |
| 38. Random play switch (RANDOM)      | 44. Track switches (TRACK)         |                               |

## REMOTE CONTROL

### Controls



1. Power switch (POWER)
2. Phono function switch (PHONO)
3. Tuner controls  
TUNER/BAND: Tuner function/Band select switch  
PRESET: Preset tuning switch
4. Tape function switch (TAPE)
5. CD player controls  
MEMORY: CD memory switch  
REPEAT: Repeat play switch  
▶/|| : Play/Pause switch  
■ : Stop switch  
◀◀/◀▶▶/▶▶ : Track switches  
CD: CD function switch
6. Volume controls (VOL)
7. Number switches (1 - 9, 0)

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

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

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

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

With any other function, the switches will not function.

- Two switches must always be pressed.

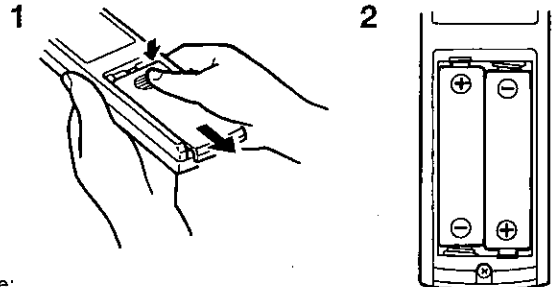
Example:

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

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

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

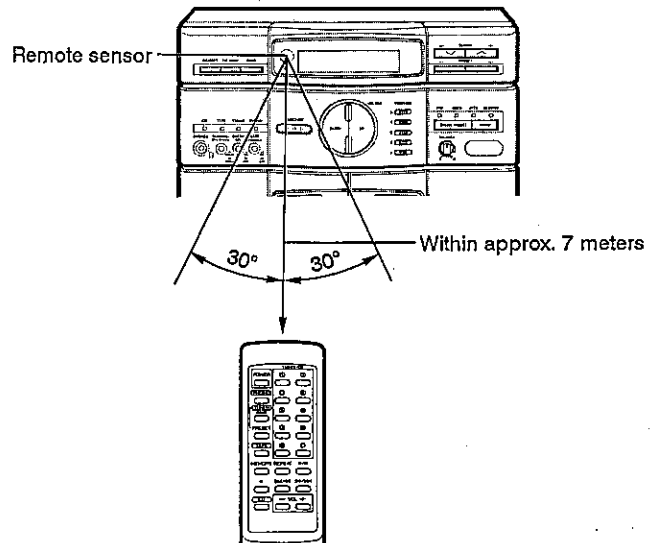
### Inserting batteries



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 switch. The displays light and the STANDBY indicator goes out.

To turn off the power, press the POWER switch 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 switch to light the desired function indicator.

The function is automatically selected when CD play is started or when the BAND switch has been pressed.

- When the function is changed from "CD" to another, CD play stops automatically. "Cd OFF" appears on the display.

## Adjusting the volume

Press the UP or DOWN VOLUME control, or "+" or "-" VOL control on the remote control.

## Volume position indicators

The POSITION indicators show the relative volume position.

## Adjusting the left/right speaker balance

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

## Bass expander system

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

## Selecting the sound mode

Press the SOUND PRESET switch 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.

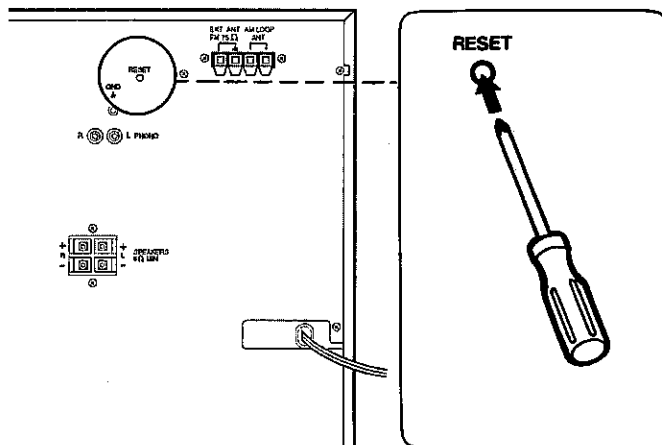
If the DEMO switch is pressed, the sound mode changes each 10 seconds as follows:

POP – ROCK – JAZZ – CLASSIC – POP – ...

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



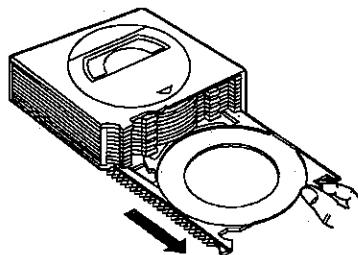
# COMPACT DISC PREPARATIONS

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.



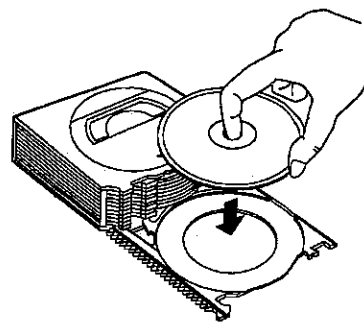
## Storing discs in the 10-disc magazine

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

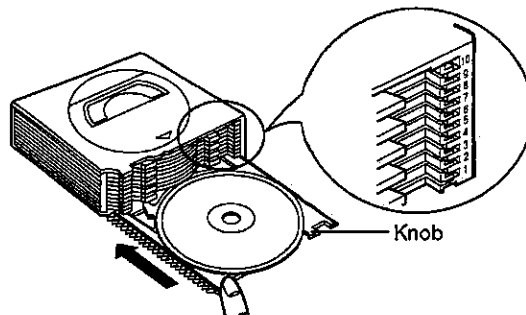


2. Place a disc with the label facing downward on the centre of the disc tray.

- 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.

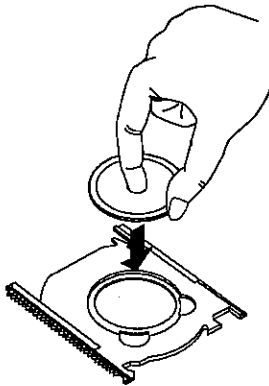


4. Repeat steps 1 - 3 for loading other discs into the magazine. The disc stored in the lowermost tray is disc number 1. (Observe the markings on the side of the magazine.)

### 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:

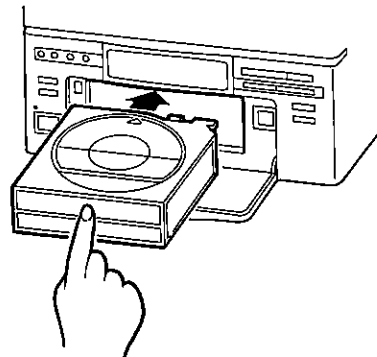
- Discs must be loaded into the magazine one at a time. Do not pull another disc tray out while loading a disc.
- Slide the disc tray in and out in a straight motion when loading or unloading a disc, to prevent damage to the disc.
- Do not apply excessive force to the disc tray.
- When removing a disc 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

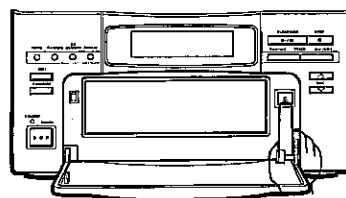
1. Press the top left portion (PUSH-OPEN) on the magazine door to open it.
2. Before inserting the magazine into the slot, confirm that all disc trays are locked into position. Using the magazine without all 10 disc trays may result in a malfunction.
3. Insert the magazine as shown in figure by pressing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



4. Close the magazine door.

### Removing a magazine

1. Open the magazine door.
2. Press the ▲ switch. 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 switch, or press the CD switch 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 switch.



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 switch 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:

Do not disconnect the mains lead for four seconds after the STOP switch has been pressed. The unit takes four seconds to store the disc into a magazine after the STOP switch is pressed.

### Temporarily stopping play

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

- If the TIME/FADE switch 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 switch.
  - When using the remote control, press two number (for example: 02, 10, etc.) switches.
2. Press the  $\blacktriangleright/\blacktriangleright$  or  $\blacktriangleleft/\blacktriangleleft$  TRACK switch to select the desired track.
3. Press the PLAY/PAUSE switch 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  $\blacktriangleright/\blacktriangleright$  TRACK switch repeatedly until "6" appears in TRACK on the display.

To skip back to track 3 while track 6 is playing, press the  $\blacktriangleleft/\blacktriangleleft$  TRACK switch repeatedly until "3" appears.

### Search (forward/reverse)

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

### IntroscaN

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

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

### Random play

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

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

### Random introscaN play

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

### Repeat play

Before or during play, press the REPEAT switch 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 switch.



DISC 1 TRACK - - STEP 1

2. Select DISC 3 by pressing the  $\wedge$  DISC switch. "DISC 1" is replaced by "DISC 3" in the display.

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

3. Select track 5 by pressing the  $\blacktriangleright/\blacktriangleright$  TRACK switch.



DISC 3 TRACK 5 STEP 1

4. Press the CD MEMORY switch. "PROG." remains lit.

5. Select track 2 by pressing the  $\blacktriangleleft/\blacktriangleleft$  TRACK switch.



DISC 3 TRACK 2 STEP 2

6. Press the CD MEMORY switch. "PROG." remains lit.

7. Select DISC 2 by pressing the  $\vee$  DISC switch.



DISC 2 TRACK - - STEP 3

8. Press the CD MEMORY switch.

PROG.

DISC 2 AL STEP 3

9. Press the PLAY/PAUSE switch 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 switch is pressed in the stop mode, the programme is cleared.



## Checking the programme

Each time the CD MEMORY switch 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 switch 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 switch repeatedly until the selection to be replaced is displayed.

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

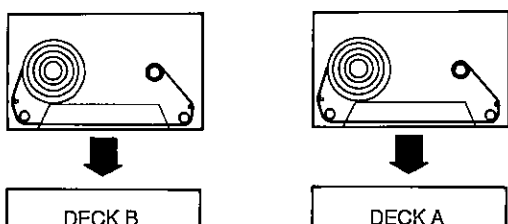
NOTE:

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. Do not turn the unit off while the tape is running. Otherwise, the pinch roller may be damaged.

1. Select "TAPE".
2. Press the STOP/EJECT button to open the cassette holder.
3. Load the cassette(s).



After the cassette has been loaded, push the cassette holder back into position.

4. Set the DOLBY NR switch to ON or OFF according to whether the tape has been recorded with the Dolby NR system or not.
5. For deck A: Set the REVERSE MODE button as desired.
6. Press the PLAY button (deck A or deck B) to begin playback.  
For deck A:
  - To change the tape direction, press the DIRECTION button.
7. Press the STOP/EJECT button to stop playback at any time. Press it again to remove the cassette.  
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 deck A, tapes can be played back in the following 2 ways using the REVERSE MODE button.



For listening repeatedly to both sides of the tape.



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.

## Pause (DECK B)

Press the PAUSE button to temporarily stop playback or recording. Press it again to resume operation.

## Fast forward and rewind

For deck A:

Press the **FFWD** or **REW** button.

When the end of the tape is reached, press the STOP/EJECT button.

For deck B:

Press the FFWD or REW button.

When the tape has been wound to the end, the deck stops automatically.

Note:

While playing or recording, do not press the FFWD, REW or REW/FFWD button of the other deck, or the sound quality may deteriorate.

## Continuous playback (From deck A to deck B)

1. Set the REVERSE MODE button to
2. Press the PLAY button of deck A. Deck A playback will begin.
3. Press the PAUSE button of deck B.
4. Press the PLAY button of deck B. Deck B enters the pause mode.  
When the tape automatically stops on deck A, deck B playback will begin.  
When the end of the tape has been reached on deck B, automatic stop will be activated.

## Dolby NR system

Dolby Noise Reduction circuitry provides superior recording and playback results by suppressing tape hiss by up to 10 dB for virtually noise free recordings.

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

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

# LISTENING TO THE RADIO

## Manual tuning

1. Select "TUNER".
2. Press the BAND button to select FM or AM.
3. Press the "+" or "-" 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.

AM 594 kHz

## To preset stations

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 "Manual tuning".
2. Press the MEMORY button. "MEMO" blinks.

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 "+" or "-" button to select the desired channel number, then press the MEMORY button.

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 "+" or "-" 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) ← → 520 - 1710 kHz (10 kHz steps)

# LISTENING TO RECORDS

1. Select "PHONO".

2. Follow the instructions supplied with the turntable.

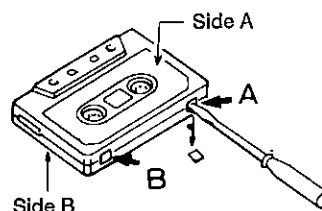
# BEFORE RECORDING AND DUBBING

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.

## 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.

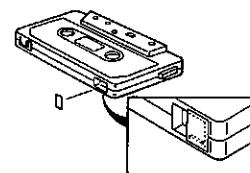


Break out tab A for side A.  
Break out tab B for side B.

Use deck B for recording.

Set the DOLBY NR switch to ON or OFF as desired.

For CrO2 tape



# RECORDING COMPACT DISCS

## EDIT RECORDING

The following edit recording operations can be performed.

- Time edit recording
- Programme edit recording
- Fade-out edit recording
- Backward skip edit recording

Note:

- CD play starts automatically after 8 seconds, so the recording will not be interrupted by the leader tape at the beginning of sides A and B.
- A short blank space is automatically recorded at the end of each track.
- The highest track number which can be edited is 24.

## Preparations

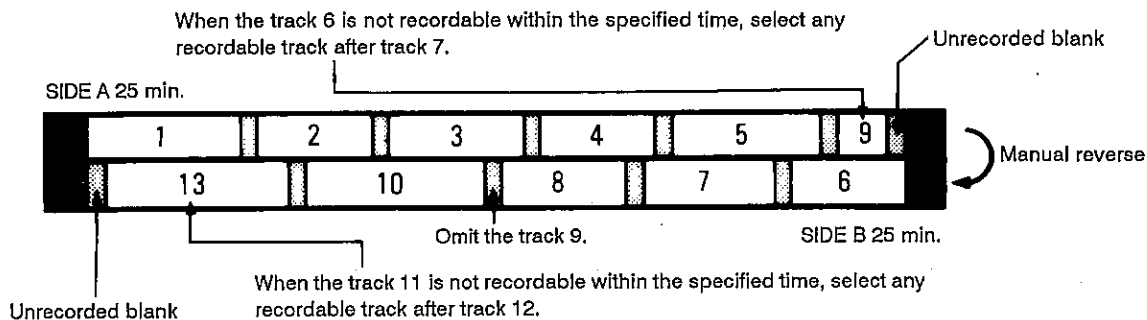
Select "CD", then insert a magazine into the CD player.

## 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 switch.

DISC -

EDIT

2. Select DISC 2 by pressing the  $\wedge$  DISC switch.
  - The number switches on the remote control can be used for selecting discs.

DISC 2

EDIT

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

DISC 2 C-46

EDIT

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

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

To set the desired tape length up to C-99, use the TRACK switches. To set "C-50", select "C-46", then press the  $\blacktriangleright / \blacktriangleright$  TRACK switch 4 times. "C-50" appears.

- The number switches on the remote control can also be used for setting.

4. Press the TIME/FADE switch 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.  
SIDE A  
DISC 2 C-50 49:45 SIDE B

5. Press the STOP/EJECT button and load a C-50 cassette into deck B to record side A.
6. Press the REC button. The PLAY button is engaged simultaneously and deck B enters the record pause mode.
7. Press the PLAY/PAUSE switch.
  - The total play time for side A is displayed.
  - The total play time for side B is displayed.
  - Recording starts automatically from track 1.

EDIT PROG.  
SIDE A  
 $\blacktriangleright$  DISC 2 TRACK 1 INDEX 1 0:01

When the tracks to be recorded onto side A have been played, the player enters the pause mode at the beginning of the first track to be recorded onto side B.

8. After the deck B stops automatically, turn over the cassette and reinsert it.
9. Press the REC button. Recording of side B starts automatically.

When the last track has been played, disc play stops automatically. The deck will continue recording to the end of the tape.

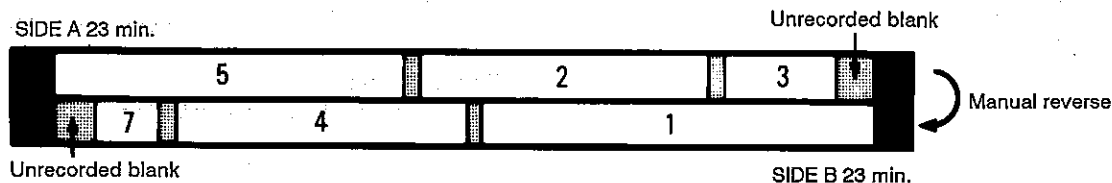
- To stop edit recording at any time, press the STOP switch of the CD player, then press the STOP/EJECT button on deck B.
- The edit mode remains operational when recording ends. To cancel the edit mode, press the STOP switch of the CD player.

## 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 switch.
2. Select the recording disc by using the DISC switches.
3. Press the EDIT switch until "C-46" appears.
4. Press the CD MEMORY switch.

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 TRACK switches.

REMAIN EDIT PROG.  
SIDE A

DISC 2 TRACK 5 STEP 1 13:00

6. Press the CD MEMORY switch. "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 switch 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. Load a C-46 cassette into deck B to record side A.
10. Press the REC button.
11. Press the PLAY/PAUSE switch.
  - Recording starts automatically from the first programmed track.

EDIT PROG.  
SIDE A

DISC 2 TRACK 5 INDEX 1 0:01

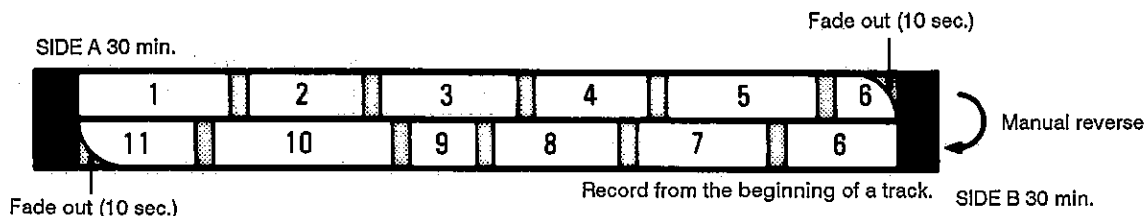
12. Follow steps 8 - 9 of "Time edit recording".

## 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 switch.
2. Select the recording disc.
3. Press the EDIT switch until "C-60" appears.
4. Press the TIME/FADE switch 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. Load a C-60 cassette into deck B to record side A.
6. Press the REC button.
7. Press the PLAY/PAUSE switch.
  - 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 SIDE A

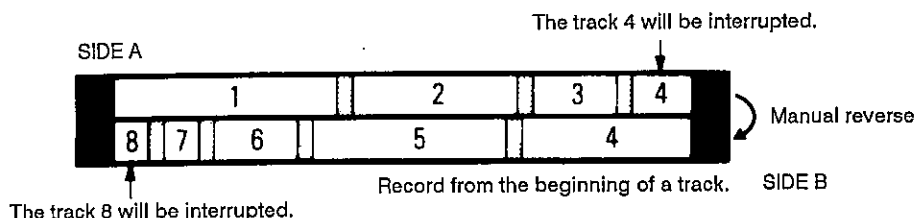
DISC 2 TRACK 1 INDEX 1 0:01

8. Follow steps 8 - 9 of "Time edit recording".
  - "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. Press the EDIT switch.
2. Select the desired disc.
3. Load a cassette.
4. Press the REC button.
5. Press the PLAY/PAUSE switch. Recording starts on side A.

6. Follow steps 8 - 9 of "Time edit recording".

- When the tape stops automatically at the end of side B, CD play also stops.

## MANUAL RECORDING

1. Select "CD".
2. Insert a magazine and load a cassette.
3. Select the desired disc.
  - For programmed recording, programme the material in advance (as described under "PROGRAMMED PLAY").

4. Press the REC button. (Deck B enters the record pause mode.)
5. Press the PLAY/PAUSE switch. Recording starts.

## RECORDING FROM THE TUNER OR PHONO INPUT

1. Tune in the radio station to be recorded or play a record.
2. Load the cassette for recording.
3. Press the REC button to start recording.
4. Press the STOP/EJECT button to stop recording.  
When the end of the tape has been reached, automatic stop will be activated.

### 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 DUBBING/BEAT CANCEL switch to the position that reduces the level of the beat noise.

## TAPE DUBBING (DECK A to DECK B)

1. Load the playback cassette into deck A and a blank cassette into deck B.
2. Select "TAPE".
3. Select the reverse mode and tape direction for deck A as desired.
4. Set the cassette in deck A to the point where recording will begin.
5. Select the dubbing speed with the DUBBING/BEAT CANCEL switch.  
NOR:  
For dubbing while monitoring at normal speed.  
HIGH:  
For dubbing the tape at high speed (twice normal speed).
6. Press the PAUSE button of deck B.
7. Press the REC button of deck B.

8. Press the PLAY button of deck A to start dubbing.
9. To stop dubbing, press both STOP/EJECT buttons.

### Automatic stop during dubbing

- If deck B stops automatically, deck A continues playback mode at normal speed.
- If deck A stops automatically, deck B erases the tape to the end.
- During dubbing, the DOLBY NR switch has no effect on the copied tape.
- Do not change the dubbing speed during the dubbing operation.

# 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.

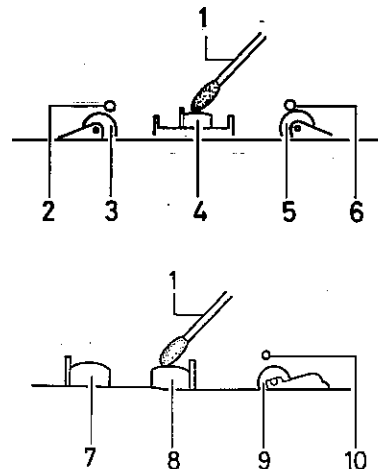
If the dirt persists, soak the swab in a little methylated spirit or head cleaning fluid and then clean.

## 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 benzine, thinners or alcohol since they will mar the finish of the surfaces.



1. Cotton swab
- 2, 6, 10. Capstan
- 3, 5, 9. Pinch roller
7. Erase head in DECK B
- 4, 8. Record/Play head (Play head in DECK A)

# 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:

60 Hz to 14.0 kHz (CrO<sub>2</sub> tape)

60 Hz to 13.5 kHz (Normal tape)

Signal-to-noise ratio:

60 dB (Dolby NR ON)

Wow/flutter:

0.15% (WRMS)

Fast forward/rewind time:

Approx. 110 sec. (C-60)

## Amplifier section

Output power:

15 W x 2 (at 6 ohms, 10% distortion)

Sound preset:

Four electronic presets

Inputs

PHONO: 2.5 mV/50k ohms

Outputs

SPEAKERS: 6 ohms

PHONES: 8 - 32 ohms

Power requirements:

AC 230 - 240 V, 50 Hz

Power consumption:

45 W

Dimensions:

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

Weight:

8.4 kg

## Speaker systems

Type:

2 way bass reflex

Unit used:

Woofer: 12 cm cone type

Tweeter: ceramic

Maximum power-handling capacity:

30 W (peak)

Nominal impedance:

6 ohms

Dimensions:

200(W) x 356(H) x 205(D) mm

Weight:

2.7 kg (per speaker)

Specifications subject to change without notice.





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