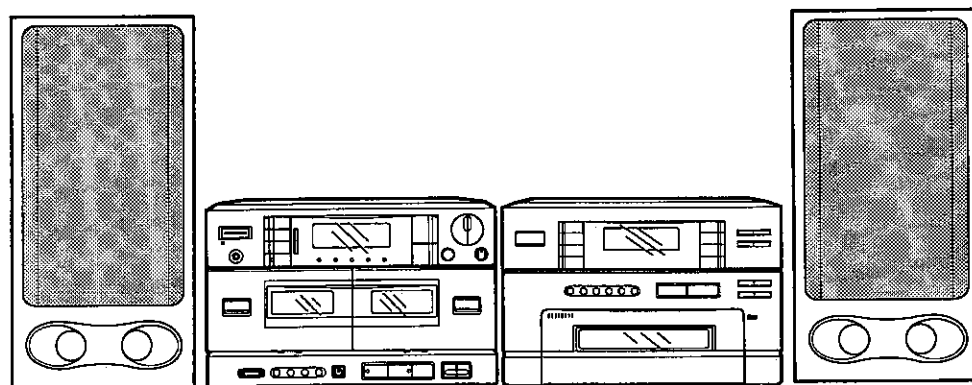
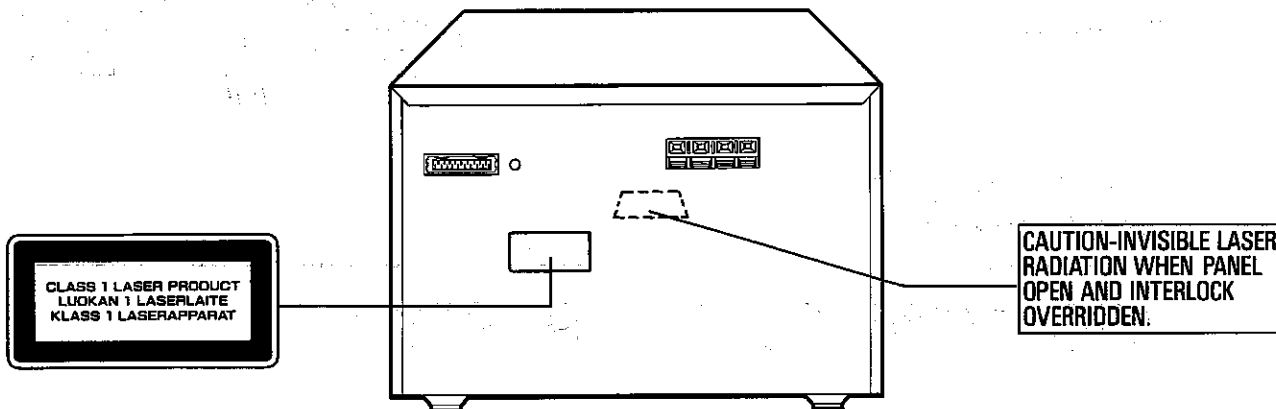


## DC D60

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### MINI COMPONENT SYSTEM





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

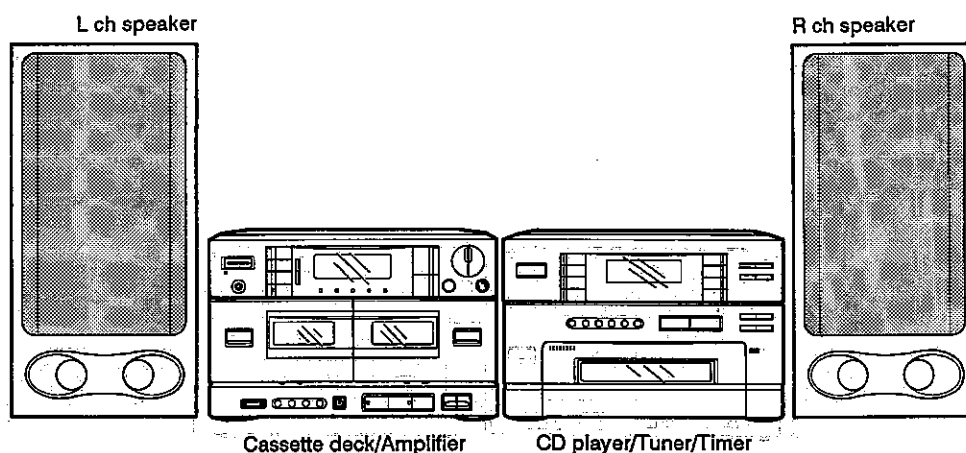
THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED PERSONNEL.

## PRECAUTIONS

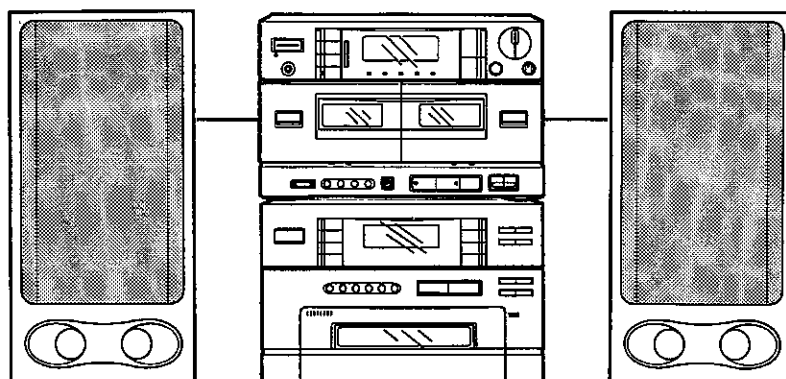
- If water should enter the unit, electrical shock or malfunction may result. Always use it in a place where there is low humidity and little dust.
- Do not use where there are extremes of temperature (below 5°C or exceeding 35°C) or where direct sunlight may strike it.
- Because of the CD player's extremely 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.

## ARRANGEMENT

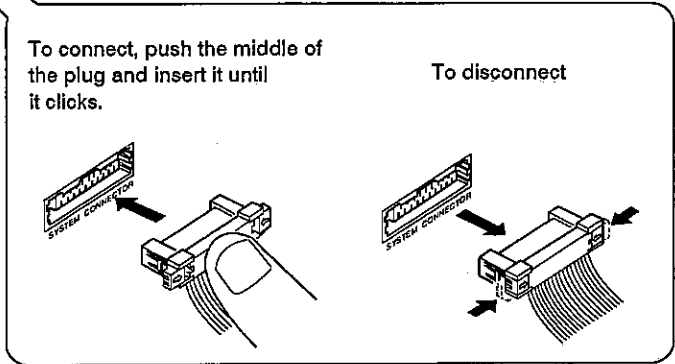
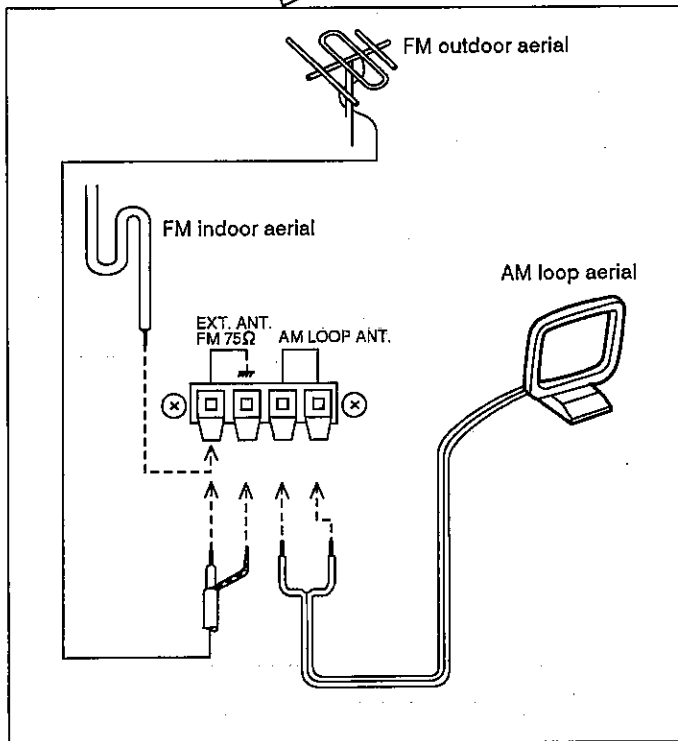
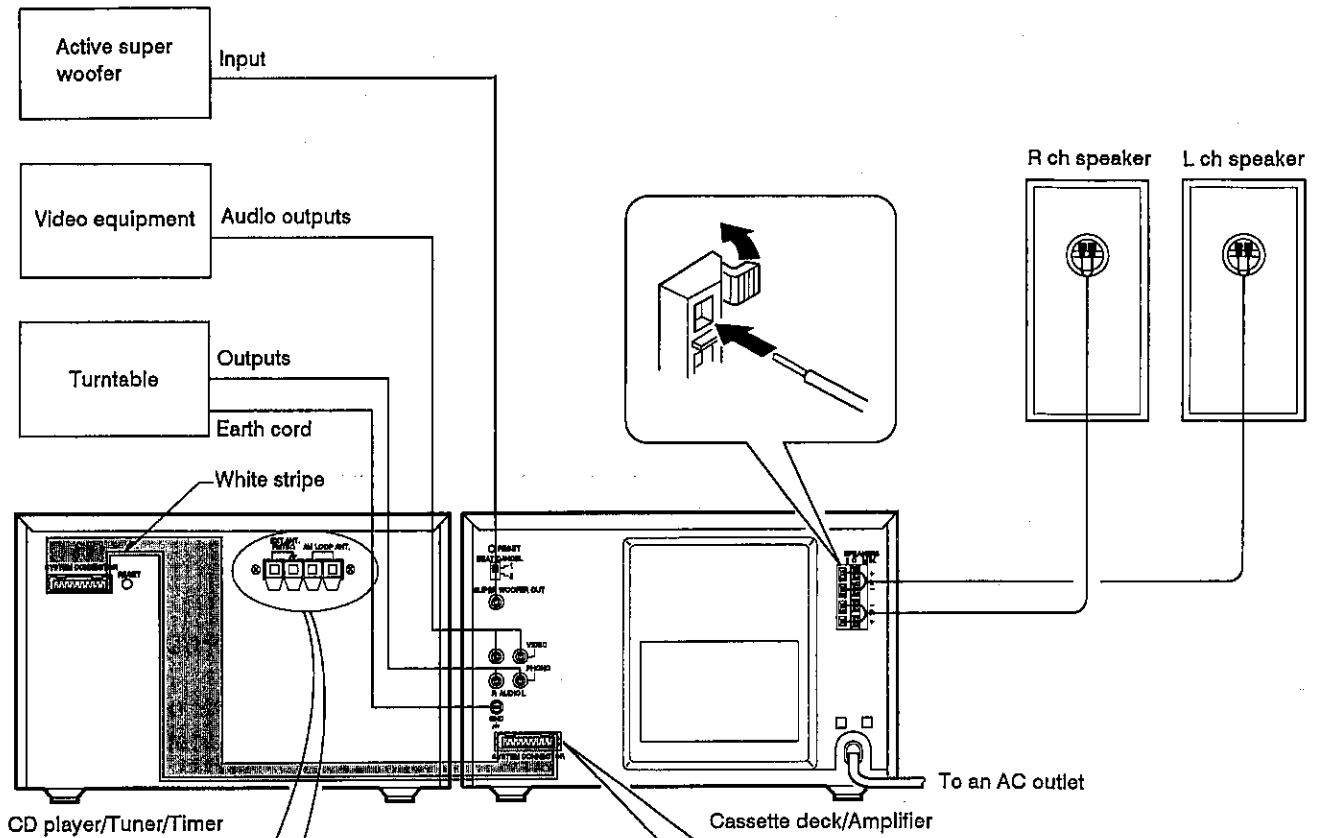
### Example 1



### Example 2



# CONNECTIONS



## Aerials

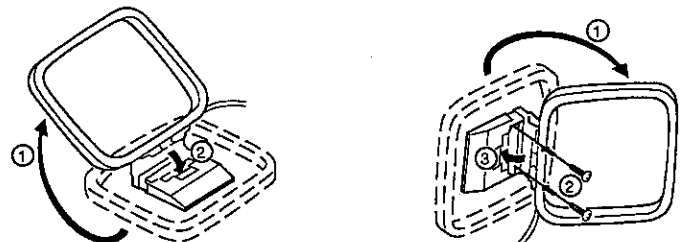
### FM aerial

In areas close to a transmitter the simple indoor aerial is sufficient to receive FM broadcasts. 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 simple indoor aerial. Consult your dealer.

### AM loop aerial

Assemble the loop aerial as shown in figure.



Unwind the aerial wires (about 3 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:

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 (-).

**Note:**

To minimize noise, the speaker, flat connection 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.

PHONES socket for monitoring or for private listening. The speakers are automatically disconnected when headphones are connected.

**Note:**

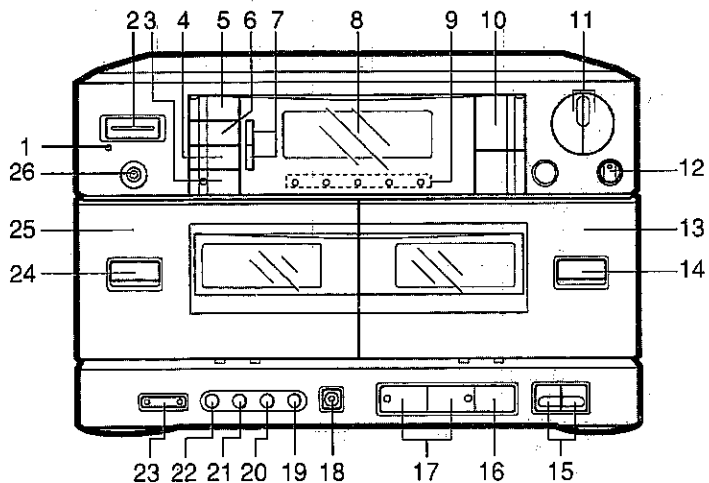
Before connecting external equipment, please refer to the instruction manual provided your equipment.

**Headphones**

Connect stereo headphones (8 ohms to 10 kohms, not supplied) to the

**CONTROLS**

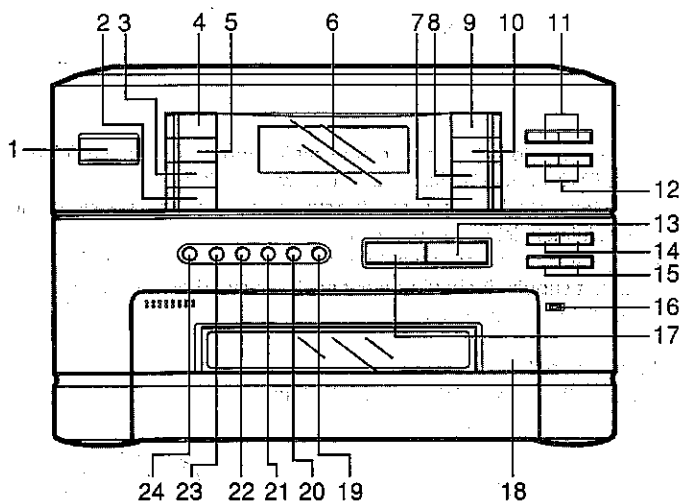
**Cassette deck/Amplifier**



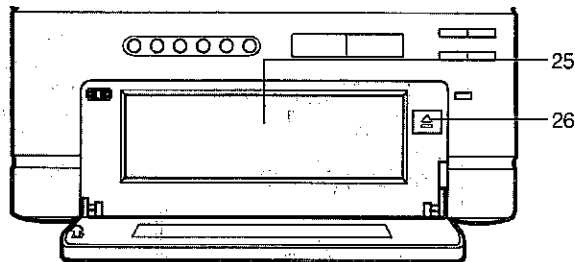
- 1. Standby indicator (STANDBY)
- 2. Power switch (POWER)
- 3. Bass expander switch/indicator (BASS)
- 4. Display switch (DISPLAY)
- 5. Preset sound style switch (PRESET)

- 6. Frequency/Memory switch (FREQ/MEMO)
- 7. Equalizer up/down switches (▲ EQ ▼)
- 8. Display
- 9. Function indicators (CD/TAPE/TUNER/PHONO/VIDEO)
- 10. Function switch (FUNCTION)
- 11. Volume controls (DOWN VOLUME UP)
- 12. Balance control (BALANCE)
- 13. Deck B cassette holder
- 14. Deck B eject button (▲ EJECT)
- 15. Fast wind switches (◀◀ REW/FFWD ▶▶)
- 16. Stop switch (■ STOP)
- 17. Play switches/indicators (◀ PLAY ▶)
- 18. Record/Record pause switch/indicator (REC/PAUSE)
- 19. Record muting switch (REC MUTE)
- 20. High-speed dubbing switch (DUBBING HIGH)
- 21. Dolby noise reduction switch (DOLBY NR)
- 22. Reverse mode switch (REVERSE MODE)
- 23. Deck select switch/indicators (A DECK B)
- 24. Deck A eject button (▲ EJECT)
- 25. Deck A cassette holder
- 26. Headphones socket (PHONES)

**CD player/Tuner/Timer**



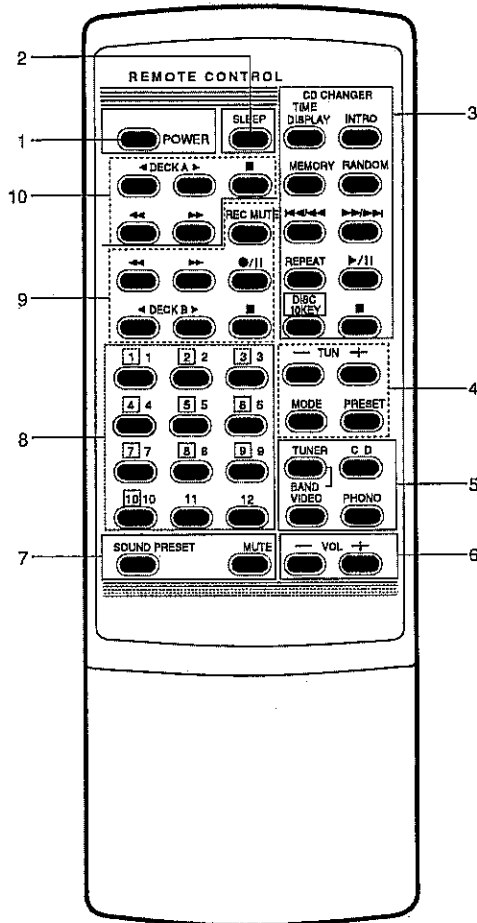
- 1. Remote sensor (IR)
- 2. Clock switch (CLOCK)
- 3. Sleep timer switch (SLEEP)
- 4. ON/OFF timer switch (TIMER)
- 5. Wake-up timer switch (WAKE UP)
- 6. Display
- 7. Memory switch (MEMORY)
- 8. Set/Clear switch (SET/CLEAR)
- 9. Band select switch (BAND)
- 10. FM/Tuning mode switch (FM/TUNE MODE)
- 11. Tuning switches (▼ TUNING ▲)



- 12. Preset/Automatic preset tuning switches (▼ PRE-SET/AUTO PRESET TUNING ▲)
- 13. Play/Pause switch (▶/|| PLAY/PAUSE)
- 14. Disc skip switches (▼ DISC ▲)
- 15. Skip/Search switches (◀◀/▶▶ TRACK ▶▶/▶▶)
- 16. Magazine indicator (MAGAZINE IN)
- 17. Stop/Clear switch (■ STOP/CLEAR)
- 18. Magazine door
- 19. Repeat play switch (REPEAT)
- 20. CD memory switch (CD MEMORY)
- 21. Random play switch (RANDOM)
- 22. Computer recording switch (COMP. REC)
- 23. Time/Fade-out switch (TIME/FADE)
- 24. Edit switch (EDIT)
- 25. Magazine slot
- 26. Eject switch (▲)

# REMOTE CONTROL

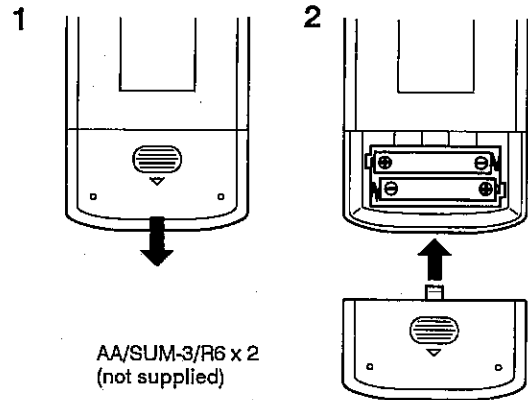
## Controls



- 8. Number switches  
 [1] - [10]: For CD player  
 1 - 12: For tuner
- 9. Deck B controls  
 REC MUTE: Record muting switch  
 ◀▶ : Fast wind switches  
 ●/|| : Record/Record pause switch  
 ◀▶ : Play switches  
 ■ : Stop switch
- 10. Deck A controls  
 ◀▶ : Play switches  
 ■ : Stop switch  
 ◀▶ : Fast wind switches

**Number switches ([1] - [10] and 1 - 12)**  
 These switches are used to select disc numbers or preset radio stations. Press the DISC 10KEY switch, then the [1] - [10] switches to select the disc numbers. Press the TUNER/BAND, then the 1 - 12 switches to select preset radio stations.

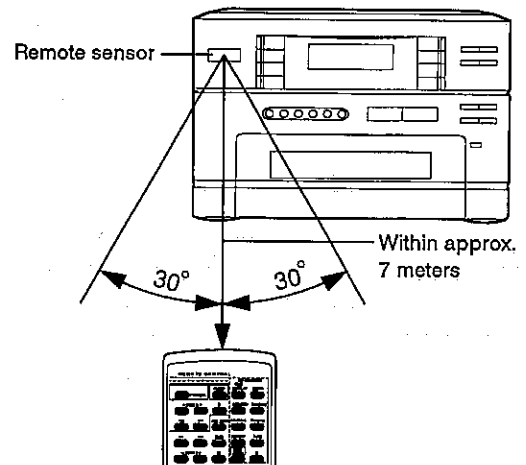
### Inserting batteries



AA/SUM-3/R6 x 2  
(not supplied)

**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.

### Remote control range



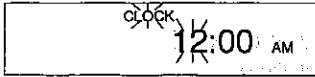
- 1. Power switch (POWER)
- 2. Sleep timer switch (SLEEP)
- 3. CD player controls  
 TIME DISPLAY: Time display switch  
 INTRO: Introsan switch  
 MEMORY: CD memory switch  
 RANDOM: Random play switch  
 ◀◀/▶▶ : Skip/Search switches  
 REPEAT: Repeat play switch  
 ▶/|| : Play/Pause switch  
 DISC 10KEY: Disc 10-key switch  
 ■ : Stop/Clear switch
- 4. Tuner controls  
 - TUN +: Tuning switches  
 MODE: FM/Tuning mode switch  
 PRESET: Preset tuning switch
- 5. Function controls  
 TUNER/BAND: Tuner function/Band select switch  
 CD: CD function switch  
 VIDEO: Video function switch  
 PHONO: Phono function switch
- 6. Volume controls (- VOL +)
- 7. Amplifier controls  
 SOUND PRESET: Preset sound style switch  
 MUTE: Audio muting switch

## ADJUSTING THE CLOCK

The clock display blinks when the mains lead is connected to the AC outlet for the first time.

Example: To set "7:30PM",

1. Press the CLOCK switch for 1 or more seconds.

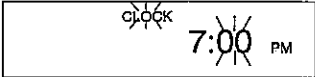


The "CLOCK" and hours displays blink.

2. Press the  $\nabla$  or  $\blacktriangle$  TUNING switch to set the "hours."

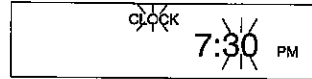


3. Press the MEMORY switch.

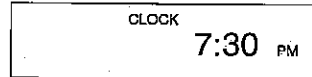


The minutes display blinks.

4. Press the  $\nabla$  or  $\blacktriangle$  TUNING switch to set the "minutes."



5. Press the MEMORY switch. The clock starts.



- The time can be set accurately by pressing the MEMORY switch when a time signal is heard.

- These operations can be done, even if the power is off.
- The clock operation and memory are backed up even with a power failure lasting 30 seconds or less. When a power failure lasts for more than 30 seconds, the memory contents will be retained for a few days, but the clock display will blink. Reset the time when the display blinks because of a power failure. Reset the timer ON/OFF times as well.

## 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 clock display remains lit and 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 or tape playback is started, or when the BAND switch have been operated.

- When the function selection is changed, the graphic display appears and scrolls for a few seconds on the display as follows:

CD: CD      TAPE: TAPE      TUNER: TUNER  
PHONO: PHONO      VIdEo: VIDEO

- When the function selection is changed, CD play, tape playback or recording is automatically stopped (except during tape dubbing).
- When "CD" or "TUNER" is selected, the clock display disappears. To display the clock, press the CLOCK switch for less than 1 second. Press the switch again to return the original display.

### Adjusting the volume

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

- When operating the control, the volume level setting appears on the display for 1 second.



### To reduce the volume temporarily (muting)

Press the MUTE switch on the remote control ("MuTE" appears and scrolls for a few seconds on the display). "MUTE" blinks.

The muting function will be retained for a few days, even if the unit is turned off or the mains lead is disconnected.

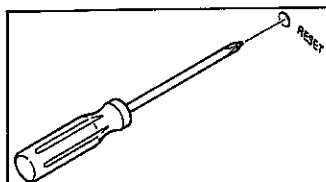
The volume is restored to its previous level by pressing the same switch again.

### Adjusting the left/right speaker balance

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

### Bass expander system

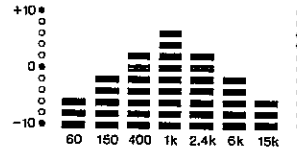
Press the BASS switch to enhance the bass sound.



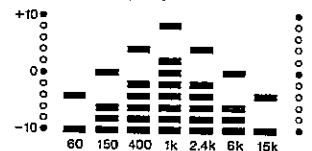
### Spectrum analyzer

Indicates the input level of each sound range in the following 5 display modes.

Bar-graph mode



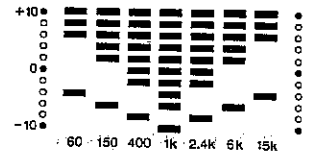
Peak hold mode



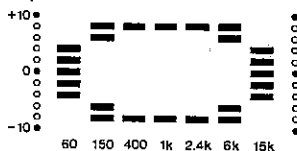
Peak dots mode



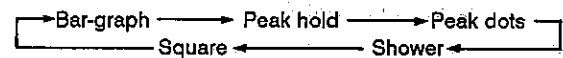
Shower mode



Square mode



Each time the DISPLAY switch is pressed, the display mode changes as follows:

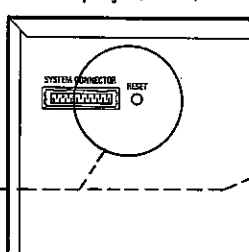


- If the DISPLAY switch is pressed for 1.5 or more seconds, the display enters the demonstration mode. "DEMO" appears and scrolls, then the sound style displays, etc. will sequentially appear. To cancel this mode, press the switch again in one touch.

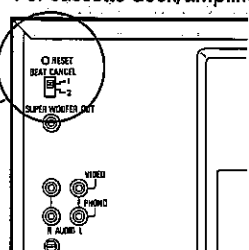
### WHAT TO DO IF ...

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 and press the appropriate RESET button (rear of each unit) for 20 seconds or more.

For CD player/tuner/timer



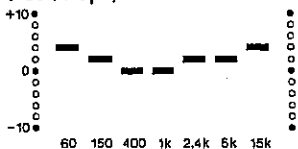
For cassette deck/amplifier



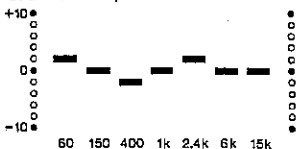
## ADJUSTING THE SOUND QUALITY (SOUND STYLE)

The graphic equalizer has been programmed with the sound styles matching the following seven types of music and up to 3 user preset sound styles can be programmed to suit your own requirements.

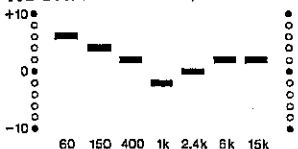
**POP:** Pops, etc.



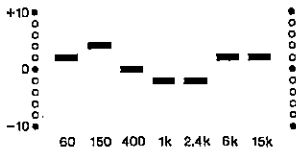
**JAZZ:** Jazz, etc.



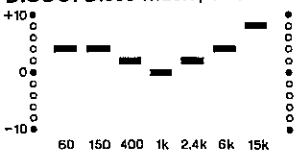
**ROCK:** Rock music, etc.



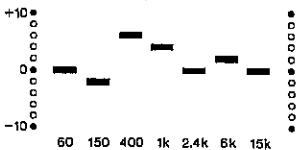
**CLASSIC:** Classical music, etc.



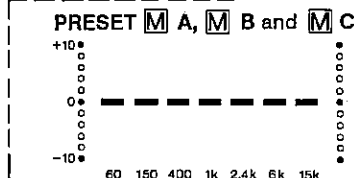
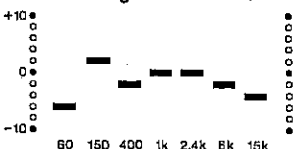
**DISCO:** Disco music, etc.



**VOCAL:** Vocal, etc.

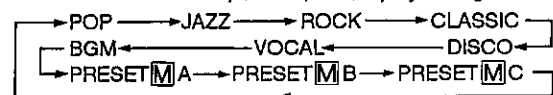


**BGM:** Back ground music, etc.



Select the sound style matching the music to be listened to by pressing the PRESET switch on the cassette deck/amplifier unit.

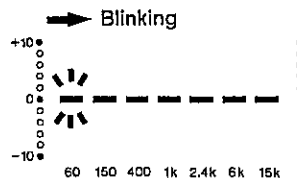
Each time the switch is pressed, the display changes as follows:



- When the switch is pressed, the display changes from the spectrum analyzer to the graphic equalizer.
- After 3 seconds, the spectrum analyzer display reappears.

### User preset sound style programming

1. Press the PRESET switch to select the position (PRESET **M** A, **M** B or **M** C) to be memorized.
2. Press the FREQ/MEMO switch to specify a frequency. The blinking indicator shifts each time the switch is pressed.



3. Press the **▲** or **▼** EQ switch to set the desired level.
4. Repeat steps 2 - 3 to set the other frequency levels.
5. Press the PRESET switch or allow 3 seconds to elapse.
6. Repeat steps 1 - 5 to memorize the remaining preset positions.

- If the next step is not taken within 3 seconds during steps 1 - 4, the display returns to the spectrum analyzer. Press the FREQ/MEMO switch to continue.

- If the memory contents are lost due to a power failure or other condition, programme the sound styles again.

### Manual equalizer settings

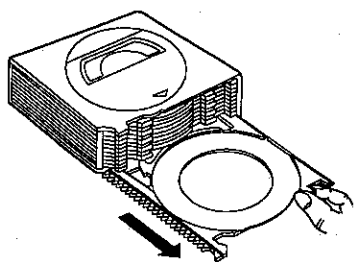
Specify a frequency with the FREQ/MEMO switch, then set the desired level with the **▲** or **▼** EQ switch.

- This operation is possible while using any sound style and this setting is memorized instead of the previously programmed levels.
- When switching off the power, the sound styles (except user preset sound styles) will be reset to the original programmed levels.

## COMPACT DISC PREPARATIONS

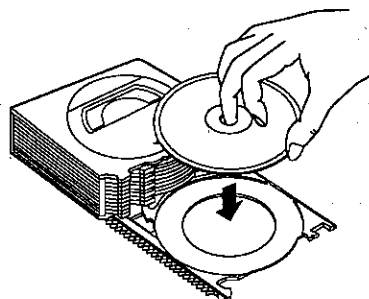
### Storing discs in the 10-disc magazine

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

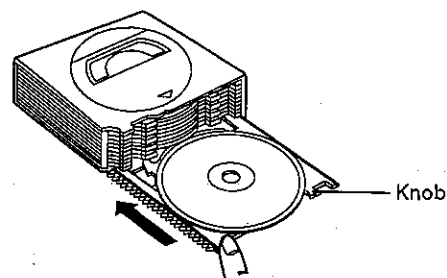


2. Place a disc with the label facing downward on the centre of the disc tray.

- 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.

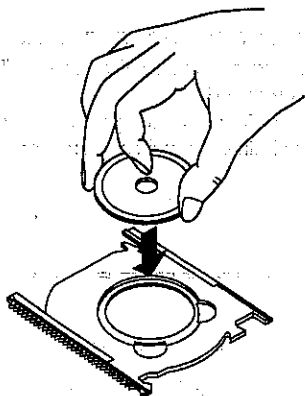


4. Repeat steps 1 - 3 for loading other discs into the magazine. The disc stored in the lowermost tray is disc number 1. (Observe the markings on the side of the magazine.)

## 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. Insert the disc tray by carefully pushing the disc tray into the magazine until it locks into place.

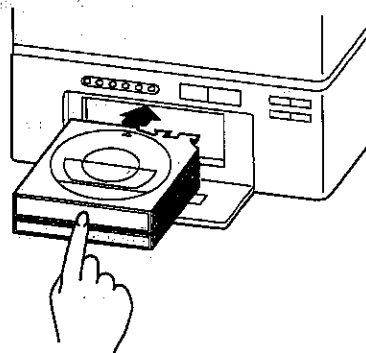
### Note:

- 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.
- Do not use an 8 cm CD adaptor.

## 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

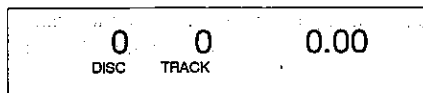
- This 10-disc magazine is especially designed for use with SANYO 10-disc multi-play compact disc players, so other disc magazines cannot be used with this unit.
- Do not place anything except a compact disc in the magazine.
- If the magazine will not be used for a long period, store it in its case. 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 benzine, thinner or antistatic spray to clean the magazine.

## CD PLAY

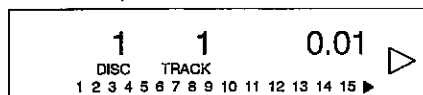
Use compact discs bearing the symbol shown below. In addition to conventional 12 cm CDs, this system can be used to play 8 cm CDs with 8 cm disc tray.



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 under "Inserting a magazine". The MAGAZINE IN indicator lights.



3. Press the PLAY/PAUSE switch.



"▶" appears, and play starts from the first track of the first disc and continues up to the last track of the last disc. The current disc number, track number, elapsed time for the current track and whole number of tracks on the current disc 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. If any disc is not stored, "No DISC" appears.
  - If the disc contains 16 or more tracks, "▶" appears on the right of the "15" indication.
4. Press the STOP/CLEAR switch to end disc play. "0 0 0.00" appears. When the last track of the last disc has been played, the player automatically stops.

### Note:

Do not turn off the power for four seconds after the STOP/CLEAR switch has been pressed. The unit takes four seconds to store the disc into a magazine after the STOP/CLEAR switch is pressed.

## 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, benzine or thinner to clean compact discs.



## Direct track selection

1. Select a disc by pressing  $\nabla$  or  $\blacktriangle$  DISC switch.
  - When using the remote control, press the DISC 10KEY switch, then press the appropriate [1] - [10] switch.
2. Select the desired track by pressing the  $\blacktriangleright/\blacktriangleright$  or  $\blacktriangleleft/\blacktriangleleft$  TRACK switch.
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.

## Temporarily stopping play

Press the PLAY/PAUSE switch. " $\blacktriangleright$ " blinks on the display. To resume play, press the switch again.

## 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.

- During programmed play, it is only possible to skip between the programmed tracks.

## 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.

## Introsca

Press the INTRO switch on the remote control 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, introsca 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 introsca play

Press the RANDOM switch, then the INTRO switch on the remote control, 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 CONT: Repeat all the tracks of all discs

None: Normal play mode

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

## Time display selection

Press the TIME DISPLAY switch on the remote control repeatedly during normal play. The display changes in the following sequence:

Remaining time for the current track

Remaining time for the current disc

Total play time for the current disc

Elapsed time for the current track

The display returns to "elapsed time" after 10 seconds.

- During programmed play, remaining time cannot be displayed.

## PROGRAMMED PLAY

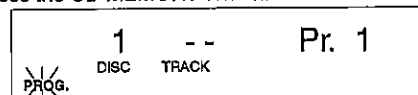
Up to 32 selections, from up to 10 discs, can be programmed for play in any order.

- To begin the programming procedure, select "CD" function first.
- The tracks are programmed in the stop mode.
- The same track or disc can be programmed more than once.

Example:

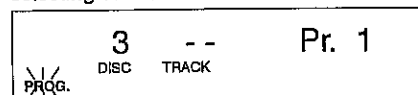
To programme tracks 5 and 2 on DISC 3 and all tracks on DISC 2

1. Press the CD MEMORY switch.

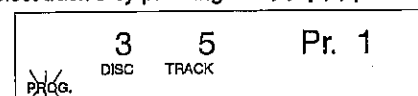


2. Select DISC 3 by pressing the  $\blacktriangle$  DISC switch.

- The [1] - [10] switches on the remote control can be used for selecting discs.

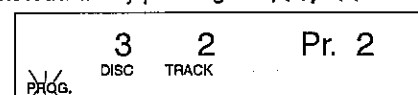


3. Select track 5 by pressing the  $\blacktriangleright/\blacktriangleright$  TRACK switch.



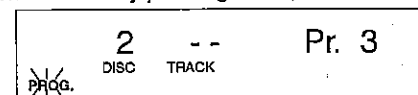
4. Press the CD MEMORY switch. "PROG." remains lit.

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



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

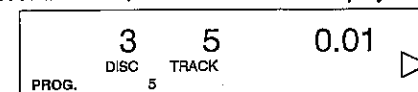
7. Select DISC 2 by pressing the  $\nabla$  DISC switch.



8. Press the CD MEMORY switch.



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



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

- The programme contents are retained in memory.

- Up to 32 selections can be programmed. If you try to enter more selections, the programme details for the first selected track appear.
- 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/CLEAR 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.

## Direct programming

Press the CD MEMORY switch during normal play. The playing tracks are programmed sequentially each time the CD MEMORY switch is pressed. Press the STOP/CLEAR switch once, then press the PLAY/PAUSE switch to start programmed play.

## 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. Both ◀ and ▶ PLAY indicators, and A or B DECK indicator light.
4. Set the DOLBY NR switch to on ("B" appears for 1 second and "DOLBY NR B" appears on the display) or off ("OFF" appears and scrolls for a few seconds and "DOLBY NR B" disappears) 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 switch if required. (If only one cassette is loaded, deck A or deck B will be selected automatically.)
6. Press the ▶ or ◀ PLAY switch to begin playback ("▶" or "◀" appears for 1 second). The ▶ or ◀ PLAY indicator remains lit.  
▶ : For forward play  
◀ : For reverse play
7. Press the STOP switch to stop playback at any time ("■" appears for 1 second).  
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 MODE switch. (When the reverse mode is changed, "Z", "D" or "S" appears for 1 second.) The selected reverse mode is shown on the display.

Z :

For listening to one side of the tape only.

D :

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.

S :

For listening repeatedly to both sides of the tape.

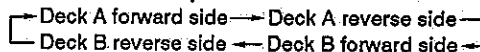
## Fast forward and rewind

Press the ▶▶ or ◀◀ REW/FFWD switch ("▶▶" or "◀◀" appears for 1 second). The ▶ or ◀ PLAY indicator blinks.

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

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

1. Load the cassettes into both decks A and B.
2. Set the REVERSE MODE switch to Z.
3. Select deck A or deck B by pressing the DECK switch if required.
4. Press the ▶ or ◀ PLAY switch.
- Relay playback will continue from deck A (or B) to deck B (or A) until the STOP switch is pressed.



## 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 DD 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.

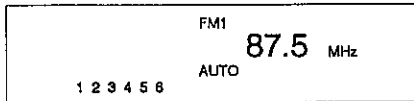
## LISTENING TO THE RADIO

### Memory operation

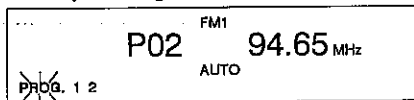
This unit enables 12 stations FM1, FM2 and AM bands to be preset in the memory.

### Automatic presetting

1. Select the band (FM1, FM2 or AM) by pressing the BAND switch or TUNER/BAND switch on the remote control.



- The frequency and whole number of preset stations appear.
2. Press and hold down both  $\nabla$  and  $\blacktriangle$  AUTO PRESET TUNING switches for at least 2 seconds, until "PROG." blinks on the display. The unit is automatically set to the automatic tuning mode and starts automatic presetting from the low end of the band.

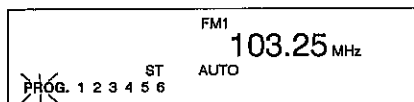


When 24 FM or 12 AM stations have been preset or the high end of band is reached, automatic presetting stops. "PROG." disappears and the preset number 1 station will be heard.

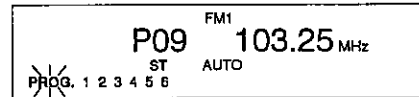
3. Select another band and repeat step 2.

### Manual presetting

1. Select the band.
2. For automatic tuning, make sure that "AUTO" is displayed. If not, press the FM/TUNE MODE switch to display "AUTO".
3. Press the  $\nabla$  or  $\blacktriangle$  TUNING switch to tune in a station. The unit automatically stops at the next receivable station. Press the switch again to continue.
  - When receiving a station with weak signals, press the FM/TUNE MODE switch to turn off "AUTO" (Manual tuning). Then press the  $\nabla$  or  $\blacktriangle$  TUNING switch repeatedly until the desired frequency is displayed. Each time the switch is pressed, the frequency changes in 0.05 MHz steps for FM and 9 kHz steps for AM.
4. Press the MEMORY switch. "PROG." blinks.



5. Select the required preset number by pressing the  $\nabla$  or  $\blacktriangle$  PRESET switch.



6. Press the MEMORY switch to preset the station. "PROG." disappears.
  - If the next step is not taken within 10 seconds in the steps 4 - 6, "PROG." disappears and the memory operation is cancelled. Press the MEMORY switch to continue.
7. Repeat steps 1 - 6, to add more preset stations.

### Clearing the memory

1. Select the band.
2. Select the preset number to be cleared by pressing the  $\nabla$  or  $\blacktriangle$  PRESET switch.
3. Press the MEMORY switch, then press SET/CLEAR. "-- --" appears for 2 seconds.

#### Note:

- If a new station is programmed into a band and preset number already containing a programmed station, the previously programmed station will be cleared.
- If the memory contents are lost due to a power failure or other condition, programme the stations again.

### Listening to the preset station

1. Select the band.
2. Select the desired preset number by pressing the  $\nabla$  or  $\blacktriangle$  PRESET switch.
  - When using the remote control, select the band by pressing the TUNER/BAND switch, then press the desired 1 - 12 switch.
- For receiving an FM stereo broadcast, make sure that "AUTO" is displayed. If not, press the FM/TUNE MODE switch to display "AUTO".
  - "ST" 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/TUNE MODE switch to change to monaural reception. ("ST" is replaced by "MONO" in the display.)

## 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 switch to on or off as desired.
3. Set the REVERSE MODE switch position.

⏮ :  
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 switch is pressed during (⏮) mode, the reverse mode will set automatically to (⏪) mode.

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

- When CD computer recording is used
- When tape high-speed dubbing is used
- When using the timer for unattended recording

### Automatic record muting

Undesirable parts of a programme can be omitted while recording. Press the REC MUTE switch 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 switch.

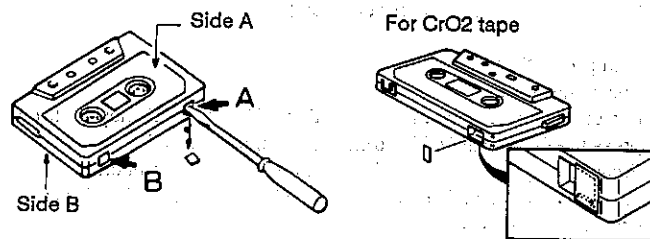
Note:

- 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 switch for the required time. The deck enters the record pause mode when the switch 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.

## RECORDING COMPACT DISCS

### COMPUTER RECORDING

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

1. Insert a magazine.
2. Load a blank cassette into deck B.
3. Select "CD".
4. Press the COMP. REC switch ("◆" appears for 1 second on the display). 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 track of the first disc to be recorded, then enters the pause mode.
- CD play starts.

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

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.

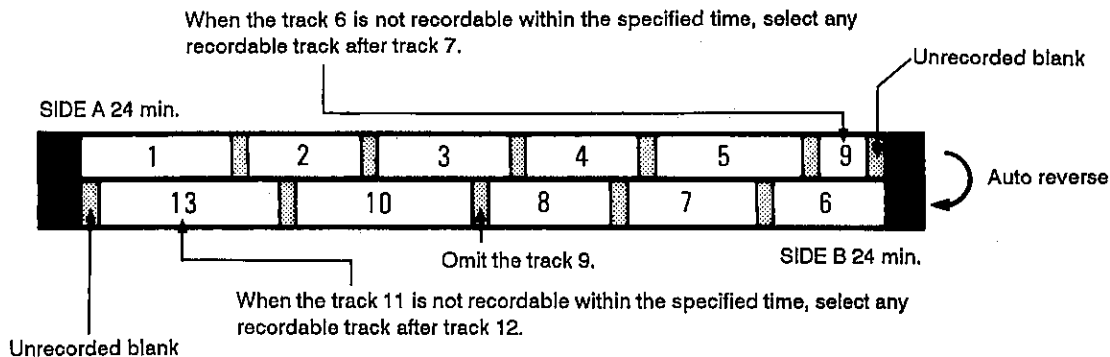
- A 5-second blank space is automatically recorded at the end of each track.
- The highest track number which can be edited is 24. Track numbers 25 and above cannot be edited (except with backward skip edit).
- To stop computer recording at any time, press the STOP/CLEAR switch of the CD player or the STOP switch 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/CLEAR switch 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

## 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 48-minute tape

1. Press the EDIT switch.



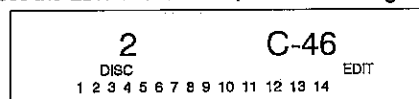
2. Select DISC 2 by pressing the  $\wedge$  DISC switch.

- The [1] - [10] switches on the remote control can be used for selecting discs.

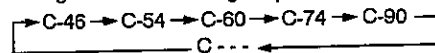


- In this example, recording disc number is 2.

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



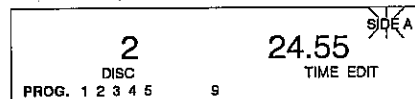
- Each time the EDIT switch is pressed, the tape length display changes in the following sequence:



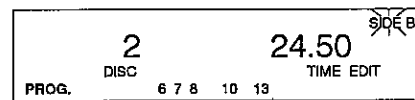
- To set the desired tape length up to C-99, use the TRACK switches. (The [1] - [10] switches on the remote control can also be used for setting.)

To set "C-48", select "C-46", then press the  $\blacktriangleright$  /  $\blacktriangleright\blacktriangleright$  TRACK switch twice (or select "C-...", press the [10] switch on the remote control 4 times, then press the [8] switch). "C-48" appears on the display.

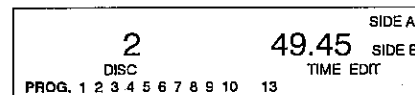
4. Press the TIME/FADE switch once.



The track numbers and play time for side A are displayed.



The track numbers and play time for side B are displayed.



The track numbers and total play time for both sides are displayed.

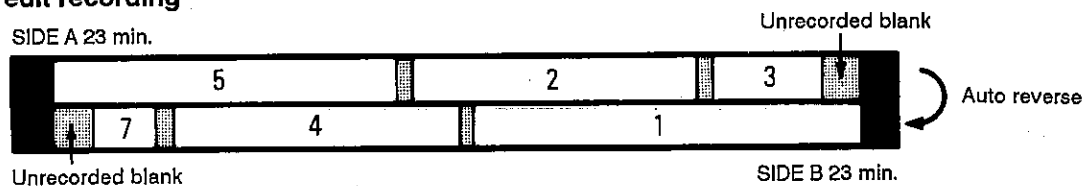
5. Press the COMP. REC switch.

- The track numbers and play time for side A are displayed.
- The track numbers and play time for side B are displayed.
- Recording starts automatically from track 1.



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

## Programme edit recording

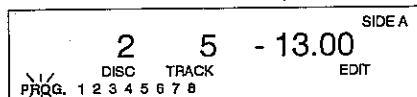


The desired selections can be rearranged and recorded on the tape within a designated tape length.

Example:

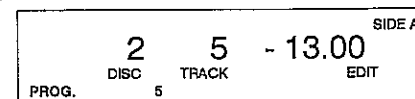
To record onto a 46-minute tape

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.
5. Select the track to be recorded by using the TRACK switches.



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

6. Press the CD MEMORY switch.

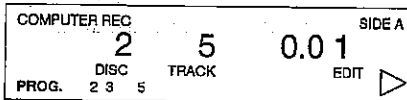


7. Repeat steps 5 - 6 to programme the tracks to be recorded onto side A.

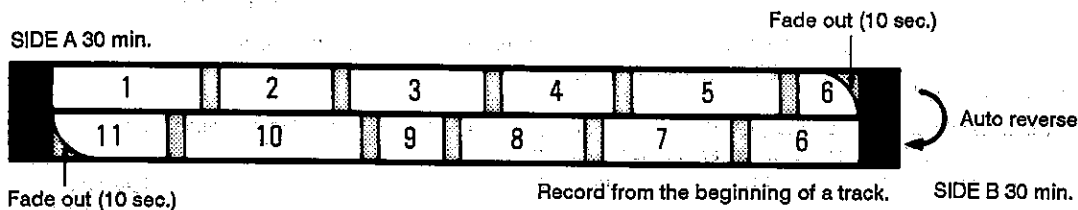
- If a track exceeding the remaining time on side A is selected, its play time blinks on the display. When the CD MEMORY switch is pressed, "SIDE A" disappears and "SIDE B" appears. The remaining time on side B appears on the time display. This and subsequent tracks are recorded on side B.

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 in the display for 4 seconds.
9. Press the COMP. REC switch.
  - The track numbers and play time for side A are displayed.

- The track numbers and play time for side B are displayed.
- Recording starts automatically from the first programmed track.



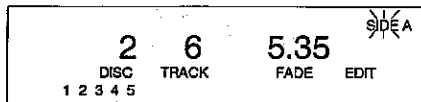
## Fade-out edit recording



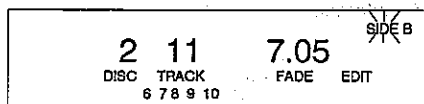
The sound is automatically faded out at the end of sides A and B, according to the selected tape length. When the tape reverses from side A to B, recording continues from the beginning of the last track played.

Example:  
To record onto a 60-minute tape

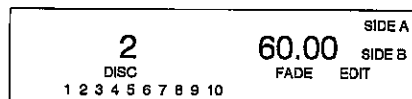
1. Press the EDIT switch.
2. Select the recording disc.
3. Press the EDIT switch until "C-60" appears.
4. Press the TIME/FADE switch twice.



This shows that 5 minutes 35 seconds of track 6 will be recorded on side A.

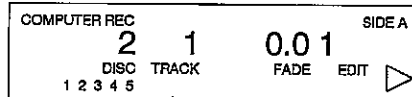


This shows that 7 minutes 5 seconds of track 11 will be recorded on side B.



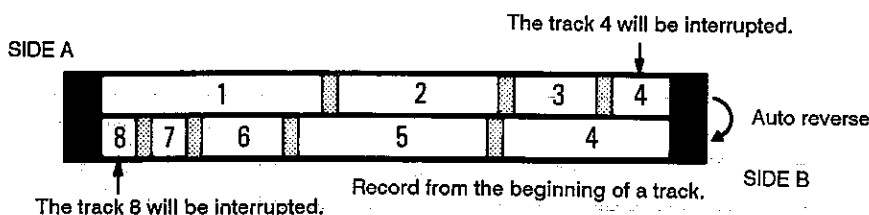
5. Press the COMP. REC switch.

- The tracks to be recorded onto side A are shown.
- The tracks to be recorded onto side B are shown.
- Recording starts from the beginning of track 1.



- "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 2, 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.

1. Select the recording disc.

2. Press the COMP. REC switch. 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 recording disc.
  - For programmed recording, programme the material in advance (as described under "PROGRAMMED PLAY").
2. Press the REC/PAUSE switch of the deck. (The deck B enters the record pause mode.)
3. Press the PLAY/PAUSE switch 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 switch 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 switch ("◆" appears for 1 second on the display).

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 A and ▷ PLAY indicators light as dubbing begins.

### Automatic stop during high-speed dubbing

↔ mode:

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

↔) 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 switch, check that both decks A and B are in the stop mode.
- To stop dubbing, press the STOP switch. The tape will not stop during high-speed dubbing if the REC/PAUSE switch is pressed.
- During high-speed dubbing, normal monitoring is not possible.
- During dubbing, the DOLBY NR switch 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 MODE switch to ↔ .
- 1. Deck B: Locate the tape position where recording will begin.
- 2. Deck A: Select ▷ or ◁ (to match the deck B), then locate the selection of the tape to be dubbed.
- 3. Press the REC/PAUSE switch.  
The REC/PAUSE and DECK B indicators light and the ▷ or ◁ PLAY indicator blinks.  
Note:  
If the blinking indicator does not match the desired direction, press the ▷ or ◁ PLAY switch to change the direction.
- 4. Press the DECK switch to select deck A.  
The DECK B indicator goes out and DECK A indicator lights.
- 5. Press the ▷ or ◁ PLAY switch 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 switch ("|||" appears for 1 second). The REC/PAUSE indicator lights and the ▷ or ◁ PLAY indicator blinks.
  - When using the remote control, press the ●/||| switch.
3. Press the REC/PAUSE switch again or press the ▷ or ◁ PLAY switch whose indicator is blinking. ("◆" appears for 1 second). The recording starts. The ▷ or ◁ PLAY indicator remains lit.
  - To record in the opposite direction to that indicated by the blinking indicator, press once the switch whose indicator is not blinking, check that the other indicator is now blinking, and press the same switch again.

4. Press the REC/PAUSE switch to temporarily stop recording. Press the switch again to continue.
5. Press the STOP switch 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.

# TIMER OPERATION

## ON/OFF timer:

This enables radio programmes to be recorded unattended. CD play or tape playback can be started and stopped at the selected times.

## WAKE UP timer:

This wakes you up to the sound of a CD, tape or radio.

## SLEEP timer:

This allows you to fall asleep to the sound of a CD, tape or radio.

## Note:

Make absolutely sure that the clock shows the correct time before setting the timer.

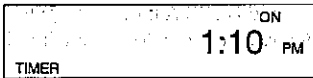
The **TIMER**, **WAKE UP** and **SLEEP** switches do not function while the clock display is blinking.

## USING THE ON/OFF TIMER

Set the ON and OFF times, then select the source to be used (for tuner, select the band and a preset station). Operation will start with the selected source at the ON time and the power will be switched off at the OFF time. The timer settings are stored in the memory and retained even when the timer operation has been completed.

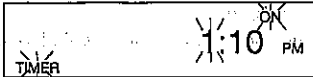
Each time the ON/OFF timer is to be used, set the unit to the timer operation standby mode.

1. Press the **TIMER** switch.

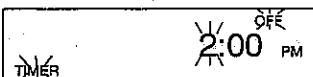
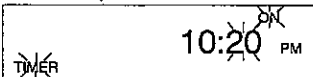


The previous timer ON time setting appears.

2. Press the **MEMORY** switch within 5 seconds.

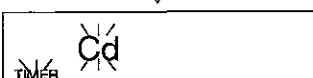
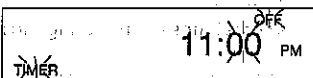


3. Set the timer ON time by pressing the  $\nabla$  or  $\blacktriangle$  TUNING switch, then press the **MEMORY** switch (as described under "ADJUSTING THE CLOCK").



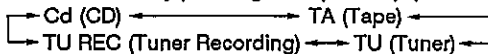
The previous timer OFF time setting appears.

4. Set the timer OFF time as described in step 3.



The previous source setting blinks.

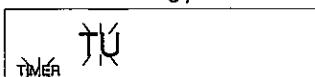
5. Select the source by pressing the  $\nabla$  or  $\blacktriangle$  TUNING switch.



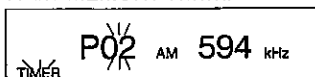
### For radio reception (or for unattended recording)

The station used during timer operation must be preset.

- a. Perform step 5 above until "TU" blinks. (Select "TU REC" for unattended recording.)

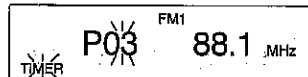


- b. Press the **MEMORY** switch.



The band, preset number and frequency of the previous timer operation are displayed.

- c. Select the band using the **BAND** switch, then indicate the desired preset number using the  $\nabla$  or  $\blacktriangle$  TUNING switch:



6. Press the **MEMORY** switch.

The original display returns, then the timer operation standby mode is activated. "TIMER" (or "TIMER REC") remains lit.

7. Prepare the sources to be used.

Note:

- For tape playback: Select  $\blacktriangleright$  or  $\blacktriangleleft$ . If tapes have been loaded into both decks, select deck A or deck B.
- Recording will start only from the forward side.

8. Press the **POWER** switch to switch off the power.

- If the power is not switched off, the timer will not be activated at the set time and the timer mode will be released.

- To switch off the power during a timer controlled operation, press the **POWER** switch. The ON/OFF timer will then be released.

## To check the timer settings

Press the **TIMER** switch repeatedly. The timer settings are displayed in the following order:

- ON time
- OFF time
- Source (If the tuner is being used as the source, the band, preset number and frequency are displayed.)
- Original display returns.

To change the settings, press the **TIMER** switch to select the setting to be changed, then press the **MEMORY** switch so that the display blinks. Change the setting as explained above.

## To set the timer again using the same settings

1. Press the **TIMER** switch. The timer ON time is displayed.
2. Press the **SET/CLEAR** switch within 5 seconds.
  - Every time steps 1 and 2 are repeated, the mode alternates between timer standby and timer off modes.
3. Press the **POWER** switch to switch off the power.

## Note:

- If the **SET/CLEAR** switch is pressed while the timer is being set, the original display returns.
- The timer mode is released if a power failure occurs during timer controlled operation.
- The timer will not operate if a power failure lasts for more than 30 seconds during standby mode.

## USING THE WAKE UP TIMER

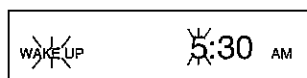
Set the wake-up time, source to be heard and volume level. At the set time, the set source will be heard. The sound will be gradually increased from a no-sound level to the volume setting (fade-in). The power will turn off after 60 minutes. The **WAKE UP** timer will function every day unless it is released.

1. Press the **WAKE UP** switch.

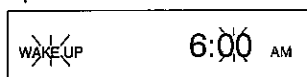


The previous wake-up time setting appears.

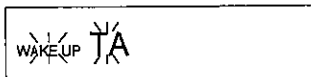
2. Press the **MEMORY** switch within 5 seconds.



3. Set the wake-up time by pressing the  $\nabla$  or  $\blacktriangle$  TUNING switch, then press the **MEMORY** switch.







The previous source setting blinks.

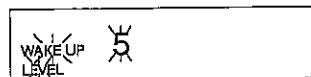
- Select the source using the  $\nabla$  or  $\blacktriangle$  TUNING switch.



#### For waking up to radio sound

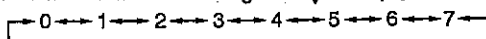
Perform step 4 above until "TU" blinks on the display. Then follow the steps "b" and "c" of "For radio reception" under "USING THE ON/OFF TIMER".

- Press the MEMORY switch.



The previous volume level setting blinks.

- Select the volume level using the  $\nabla$  or  $\blacktriangle$  TUNING switch.



- To check the actual sound level, it is recommended that the timer be set once and the level heard. This can be checked by setting the timer 2 minutes later than the present time.
  - The sound will not be faded in at the "0" level. In this case, the sound will be heard at the previous VOLUME control setting.
  - Except setting the "0" level, the audio muting function will not operate at the set time even if it is on ("MUTE" is blinked).
- Press the MEMORY switch.  
The original display returns, then the wake-up standby mode is activated. "WAKE UP" remains lit.
  - Prepare the sources to be used.
  - Press the POWER switch to switch off the power.

- Press the POWER switch to switch off the power after the power is turned on at the wake-up time.
- Even after the WAKE UP timer operation has completed, "WAKE UP" remains lit and the standby mode continues.

#### To check the timer settings

Press the WAKE UP switch repeatedly. The timer settings are displayed in the following order:

- Wake-up time
- Source (If the tuner is being used as the source, the band, preset number and frequency are displayed.)
- Volume level
- Original display returns.

To change the settings, press the WAKE UP switch to select the setting to be changed, then press the MEMORY switch so that the display blinks. Change the setting as explained above.

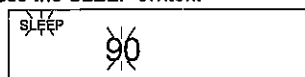
#### To release the WAKE UP timer

Press the WAKE UP switch, then press the SET/CLEAR switch. "WAKE UP" disappears.

## USING THE SLEEP TIMER

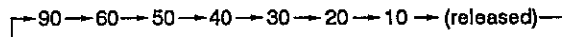
This timer automatically switches off the power after a preset time has elapsed. The volume will gradually be reduced (fade-out) during the 1-minute period before the unit turns off. There are 7 time periods available: 90, 60, 50, 40, 30, 20 and 10 minutes.

- Press the SLEEP switch.



The previous sleep time setting blinks.

- Press the SLEEP switch within 5 seconds to select the desired sleep time.



- If the SET/CLEAR switch is pressed, the original display returns and the SLEEP timer setting mode is released.

- Allow 5 seconds to elapse or press the MEMORY switch.  
The original display returns and the SLEEP timer starts. "SLEEP" remains lit.

#### To check the remaining sleep time

Press the SLEEP switch. The remaining time is displayed. After several seconds, the original display returns.

#### To release the SLEEP timer while in operation

Press the SLEEP switch, then press SET/CLEAR. The timer is also released if the power is switched off.

#### Timer priorities

- The ON/OFF timer settings are released if the actual time reaches the ON time setting during WAKE UP timer operation.
- During ON/OFF timer operation, the WAKE UP timer will not operate, but the WAKE UP timer setting is retained.
- The SLEEP timer has priority over the ON/OFF and WAKE UP timers. The power is switched off by the SLEEP timer. The ON/OFF timer setting is released, but the WAKE UP timer setting is retained.

## 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.

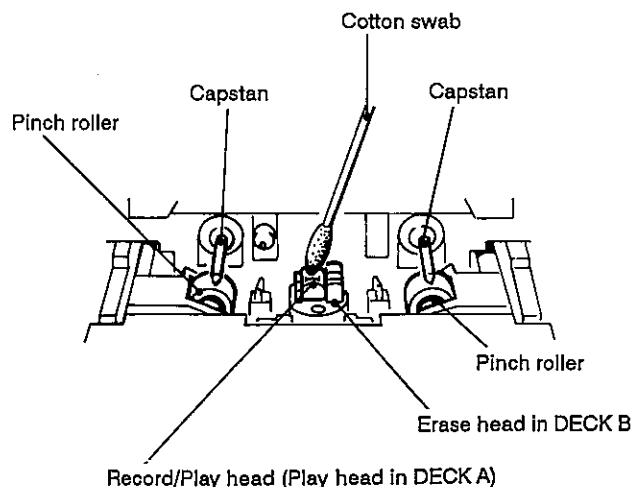
If the dirt persists, soak the swab in a little methylated spirit or head cleaning fluid and then clean.

### 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.



# REMOTE CONTROL OPERATION

The remote control's switches have identical functions to the similarly marked switches on the component's front panel.

## Common section

Power ON/OFF	POWER
Adjust volume	+ or - VOL
Temporarily reduce volume	MUTE
Select sound style	SOUND PRESET
Function select	PHONO or VIDEO
CD or TAPE is automatically selected when CD play or tape playback is started.	
Set/check sleep time	SLEEP

## CD player section

Select CD function	CD
Set [1] - [10] switches to CD mode	DISC 10KEY
Select desired disc and track	In CD mode (DISC 10KEY) → [1] - [10] switch → ►►/►► or ◀◀/◀◀
Start play	►/
Programmed play	In CD mode (DISC 10KEY) → MEMORY → [1] - [10] switch → ►►/►► or ◀◀/◀◀ → MEMORY → ►/
Temporarily stop play	During play ►/
Skip play	During play ►►/►► or ◀◀/◀◀ (press once)
Search	During play ►►/►► or ◀◀/◀◀ (press continuously)
Introscan	INTRO
Random play	RANDOM
Repeat play	During play REPEAT
Stop	■
Check remaining time	During play TIME DISPLAY

## Tuner section

Select TUNER or select band	TUNER/BAND (1 - 12 switches set to tuner mode)
Station tuning	In TUNER mode + or - TUN
Select preset station	(TUNER/BAND) → 1 - 12 switch or PRESET
Select tuning/FM mode	In TUNER mode MODE

## Deck A section

Forward/reverse play	► or ◀
Fast forward/rewind	►► or ◀◀
Stop	■

## Deck B section

Forward/reverse play	► or ◀
Fast forward/rewind	►► or ◀◀
Start recording	●/   → ●/   , ► or ◀
Temporarily stop recording	During recording ●/
Record mute	During recording REC MUTE
Stop	■

### Note:

For remote control operation, the supplied remote control must be used.

# SPECIFICATIONS

## Cassette deck/Amplifier

### Cassette deck

#### Track system:

4-track, 2-channel stereo

#### Frequency response:

Chrome tapes: 40 Hz to 13.5 kHz

Normal tapes: 40 Hz to 12.5 kHz

#### Wow/flutter:

0.14% (WRMS)

#### Fast forward/rewind time:

Approx. 120 sec. (C-60)

### Amplifier

#### Output power:

27 W x 2 (at 8 ohms, 10% distortion)

#### Graphic equalizer:

7 band electronic

#### Spectrum analyzer:

7 band

#### Inputs

PHONO: 2.5 mV/50k ohms

VIDEO: 250 mV/50k ohms

#### Outputs

SUPER WOOFER OUT: 600 mV

SPEAKERS: 8 ohms

PHONES: 8 ohms

#### Power requirements:

AC 230 - 240 V, 50 Hz

#### Power consumption:

75 W

#### Dimensions:

270(W) x 178(H) x 317(D) mm

#### Weight:

5.2 kg

## CD player/Tuner/Timer

### CD player

#### 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

### Tuner

#### Reception frequency:

FM: 87.5 - 108 MHz

AM: 531 - 1701 kHz

#### Dimensions:

270(W) x 178(H) x 307(D) mm

#### Weight:

4 kg

### Speaker systems

#### Type:

2 way bass reflex

#### Unit used:

Woofer: 13 cm cone type

Tweeter: 5 cm cone type

#### Maximum power-handling capacity:

40 W (peak)

#### Nominal impedance:

8 ohms

#### Dimensions:

178(W) x 356(H) x 220(D) mm

#### Weight:

3.6 kg (per speaker)

Specifications subject to change without notice.

1. Do not touch the terminals of the capacitor when it is charged.
2. Do not touch the terminals of the capacitor when it is discharged.
3. Do not touch the terminals of the capacitor when it is being charged or discharged.
4. Do not touch the terminals of the capacitor when it is being charged or discharged.
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SANYO Electric Co., Ltd.