SANYO

INSTRUCTION MANUAL

DC-007C

Separate Mini Component System

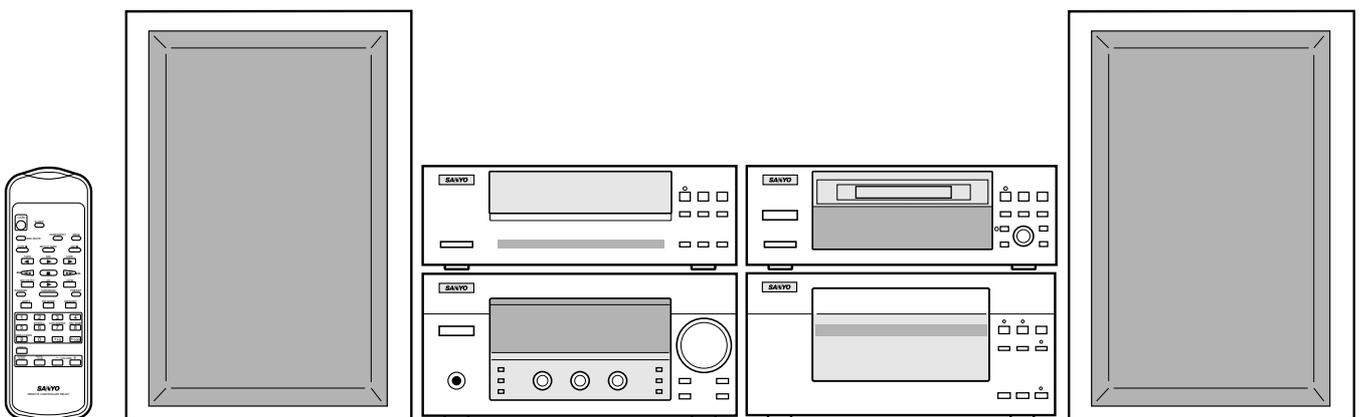|	
Tape Deck	**RD-007** (OPTION)
MD Deck	**MDG-007** (OPTION)

PRECAUTIONS
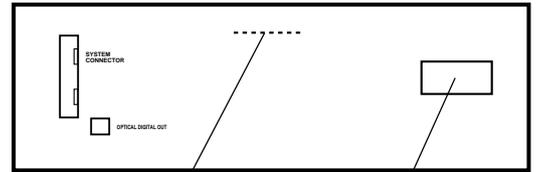
(CD CHANGER)

CAUTION – INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL – USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARNING – OSYNLIG LASER STRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
VORSICHT – UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.
VARO – AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

SYSTEM CONNECTOR

OPTICAL DIGITAL OUT

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
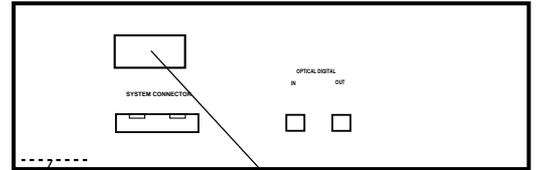KLASS 1 LASERAPPARAT

(MD DECK)

CAUTION – INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL – USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARNING – OSYNLIG LASER STRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
VORSICHT – UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.
VARO – AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

OPTICAL DIGITAL

IN   OUT

SYSTEM CONNECTOR

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.
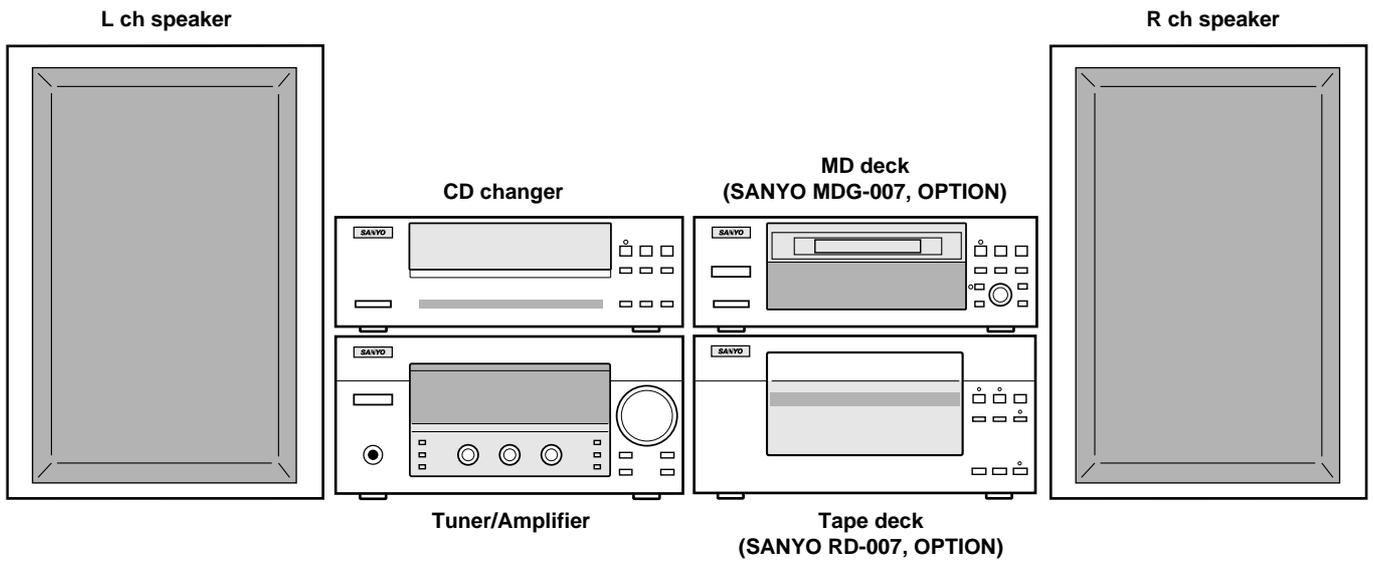

- The apparatus shall not be exposed to dripping or splashing.
- Do not use where there are extremes of temperature (below 5°C or exceeding 35°C) or where direct sunlight may strike it.
- Because of the CD changer/MD deck's extremely low noise and wide dynamic range, there might be a tendency to set 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 disc (CD or MD), leave the unit for about 1 hour, and then proceed to operate.
- **When carrying the unit, be sure to remove the discs (CD and MD) which may be inside and turn the power off. Wait at least 10 seconds, then unplug the mains lead from the AC outlet. Otherwise, may damage the disc and/or the unit.**

- The system's speakers use powerful magnets. Do not place timepieces, credit cards, cassette tapes or video tapes, etc. near the speakers.
- Do not install this equipment in a confined space, such as a book case or built in cabinet.
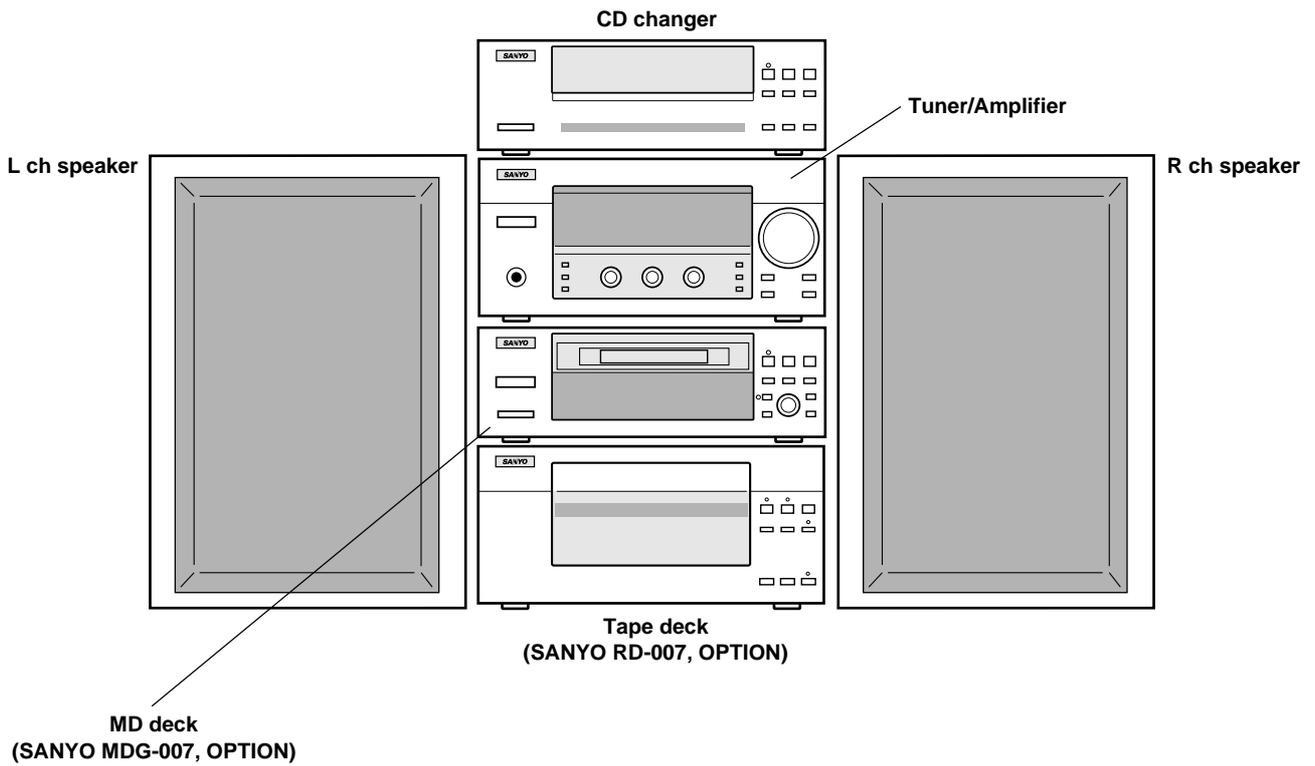
Recording copyright material without permission of the copyright owners is usually an infringement. If you wish to re-record copyright material, permission from the copyright owner is necessary. SANYO does not approve of, and cannot be held responsible for, any unlawful use of this machine.

ARRANGEMENT

Example 1

L ch speaker

R ch speaker

CD changer

**MD deck
(SANYO MDG-007, OPTION)**

Tuner/Amplifier

**Tape deck
(SANYO RD-007, OPTION)**

Example 2

CD changer

Tuner/Amplifier

L ch speaker

R ch speaker

**Tape deck
(SANYO RD-007, OPTION)**

**MD deck
(SANYO MDG-007, OPTION)**

CONNECTIONS

When using only the system DC-007C (CD changer and Tuner/Amplifier)

CD changer
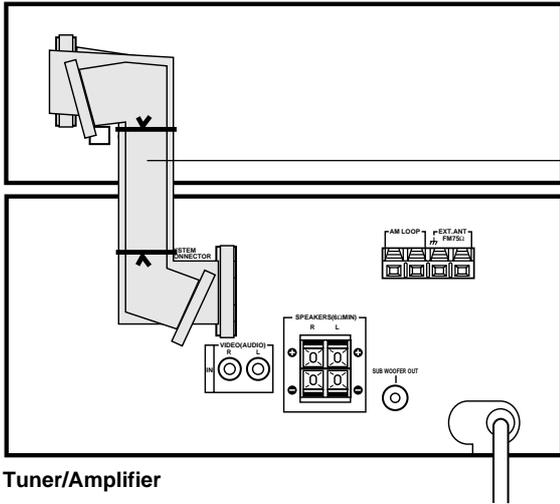
Tuner/Amplifier

The flat connection lead is provided as shown.

To the CD changer ⟵

Fixer   Tape

To the Tuner/ Amplifier ⟵

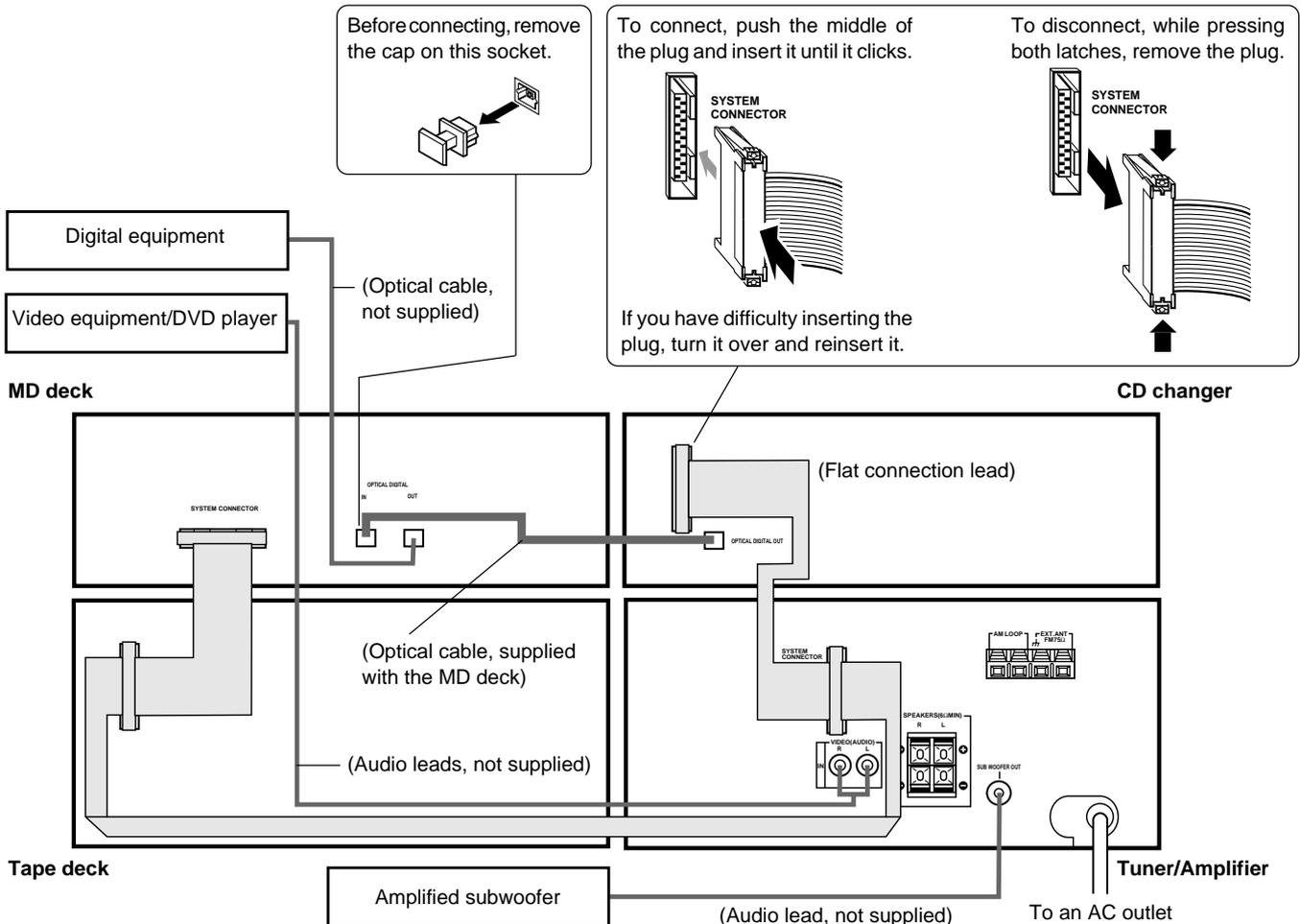Do not remove the fixer and protective tape.

Notes on the flat connection lead
When using the system DC-007C (CD changer and Tuner/Amplifier) and optional Tape deck and/or MD deck, remove the fixer and protective tape before connecting.
- Do not remove the tape on the plug that is not used.

Note:
- **Do not connect the mains lead to an AC outlet until all connections have been made.**
- The system is not completely disconnected from the mains when the ⏻/ON button is set to the ⏻ position.
- To prevent a noise interference from the mains, the core clamp is attached to the mains lead. Do not remove it.

Before connecting, remove the cap on this socket.

To connect, push the middle of the plug and insert it until it clicks.

If you have difficulty inserting the plug, turn it over and reinsert it.

To disconnect, while pressing both latches, remove the plug.

Digital equipment

Video equipment/DVD player

(Optical cable, not supplied)

MD deck

CD changer

(Flat connection lead)

(Optical cable, supplied with the MD deck)

(Audio leads, not supplied)

Tape deck

Amplified subwoofer

(Audio lead, not supplied)

Tuner/Amplifier

To an AC outlet

Video equipment/DVD player
Connect audio leads (not supplied) from the audio output sockets of a video equipment/DVD player to the VIDEO (AUDIO) sockets.

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

Subwoofer
Connect an amplified subwoofer (not supplied) to the SUB WOOFER OUT socket.

Digital equipment
The OPTICAL DIGITAL OUT socket (MD deck) reproduces MD's digital sound to your digital equipment. The socket can be connected to the digital equipment which has an optical input socket.

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:
If desired, the speaker grilles can be removed.

FM aerial

The FM indoor aerial is sufficient to receive most local FM broadcasts and should be connected to the FM 75 Ω 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, then connect them to the AM LOOP 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.
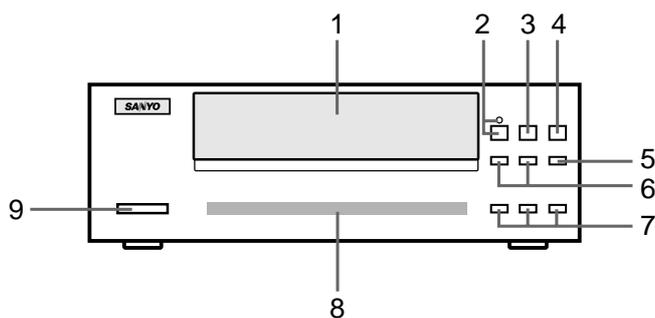
Screws (not supplied)
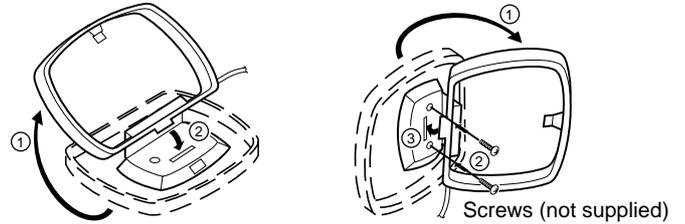
Note:
To minimize noise, the speaker, mains and any other leads should not come close to the FM indoor or outdoor aerial lead and AM loop aerial. Do not place the aerial leads close to the system.
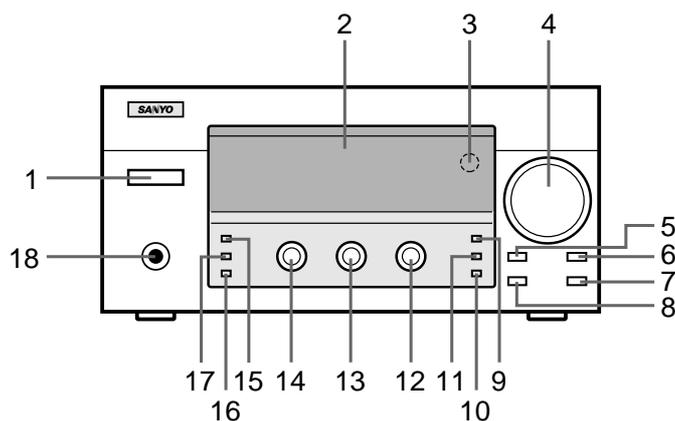

4
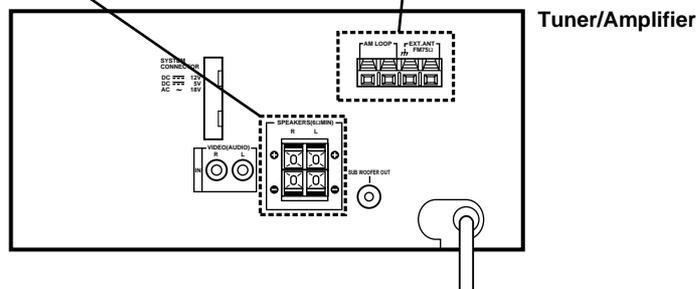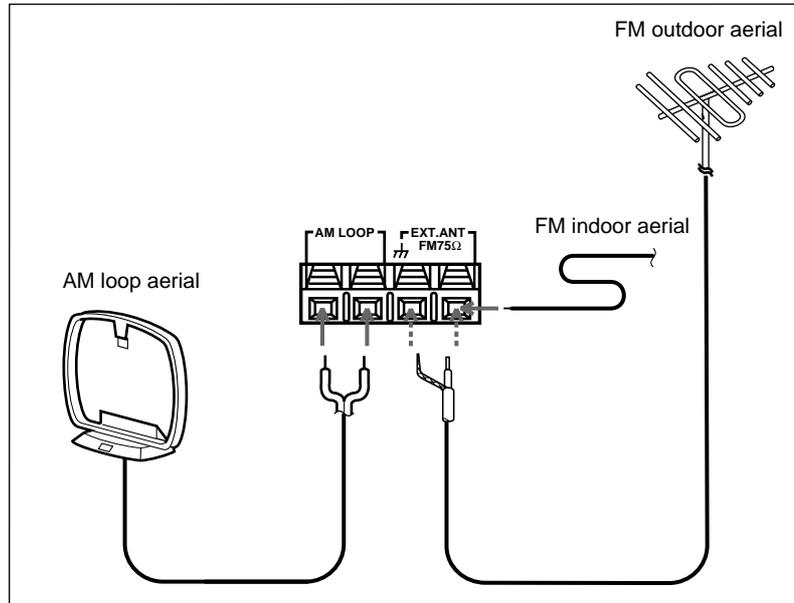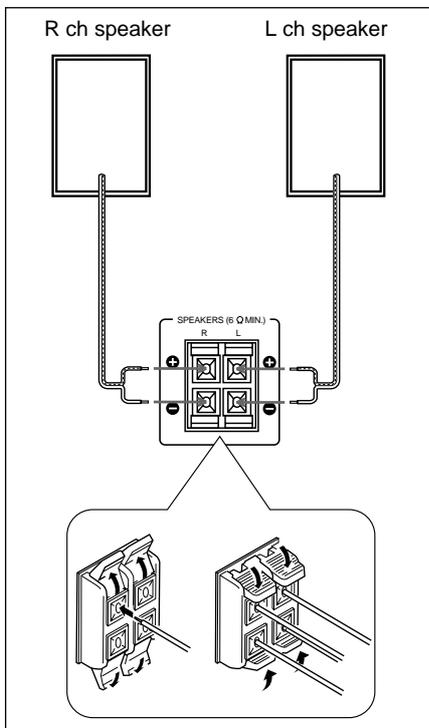
CONTROLS

CD changer

1. Discs compartment
2. Play button/indicator (PLAY)
3. Pause button (PAUSE)
4. Stop button (STOP)
5. Disc mode button (DISC MODE)
6. Skip/Search buttons (◄◄ / I◄◄ , ►►I / ►►)
7. Disc select buttons (DISC SELECT)
8. Disc number display
9. Open/Close button (▲ OPEN/CLOSE)

Tuner/Amplifier

1. Power button (⏻/ON)
2. Display
   (This display can also be used as a CD changer or Tape deck display.)
3. Remote sensor (IR)
4. Volume control (VOLUME)
5. Balance button (BALANCE)
6. Clock/Ecology mode button (CLOCK/ECO)
7. Timer button (TIMER)
8. Set/Clear button (SET/CLEAR)
9. Input source select button (INPUT)
10. Memory button (MEMORY)
11. Super bass button (SUPER BASS)
12. Treble control (TREBLE)
13. Bass control (BASS)
14. Up/Down control (UP/DOWN)
15. Band select button (BAND)
16. FM mode button (FM MODE)
17. Tuning mode button (TUNING MODE)
18. Headphones socket (PHONES)
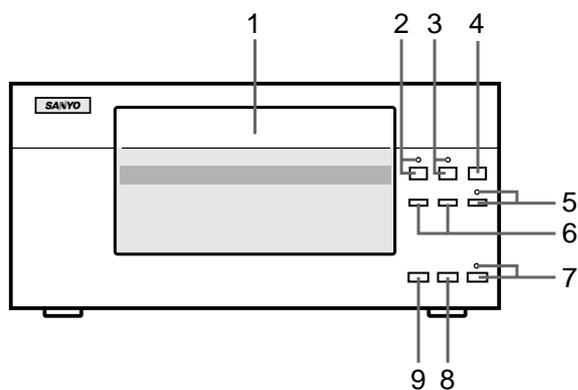
Tape deck (OPTION)

1. Cassette holder
2. Reverse play button/indicator (REV PLAY)
3. Forward play button/indicator (FWD PLAY)
4. Stop button (STOP)
5. Record/Record pause button/indicator (REC PAUSE)
6. Fast forward/Rewind buttons (◄◄ , ►►)
7. Computer recording button/indicator (COMPU REC)
8. Dolby B NR button (▭▭ B NR)
9. Reverse mode button (REV MODE)
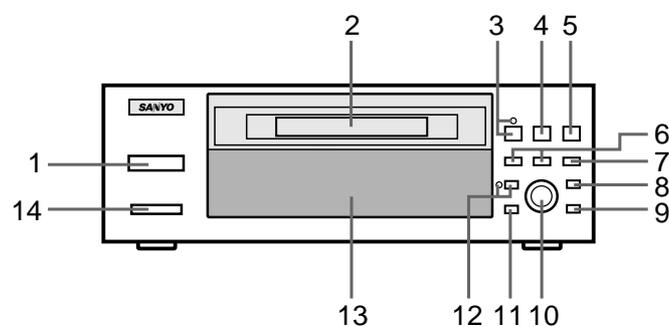
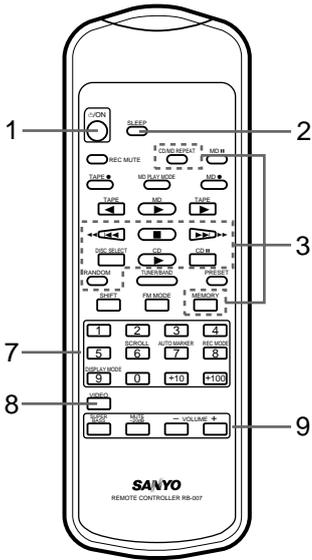## MD deck (OPTION)

1. Power button (⏻/ON)
2. MD loading slot
3. Play button/indicator (PLAY)
4. Pause button (PAUSE)
5. Stop button (STOP)
6. Search buttons (◄◄ , ►►)
7. Record button (REC)
8. Edit button (EDIT)
9. Enter button (ENTER)
10. Multi jog control (MULTI JOG)
11. Input select button (INPUT)
12. Computer recording button/indicator (COMPU REC)
13. Display
14. Eject button (▲ EJECT)

REMOTE CONTROL

Controls

1. Power button (⏻/ON)
2. Sleep timer button (SLEEP)
3. CD changer controls
   CD/MD REPEAT: Repeat button
   ◄◄ / I◄◄, ►►I / ►► : Skip/
   Search buttons
   ■ : Stop button
   DISC SELECT: Disc select button
   CD ► : Play button
   CD II : Pause button
   RANDOM: Random play button
   MEMORY: Memory button
4. Tuner controls
   ◄◄ / I◄◄, ►►I / ►► : Tuning buttons
   TUNER/BAND: Tuner function/
   Band select button
   PRESET: Preset tuning button
   FM MODE: FM mode button
   MEMORY: Memory button
5. Tape deck controls
   REC MUTE: Record muting button
   TAPE ● : Record/Record pause button
   TAPE ◄ : Reverse play button
   TAPE ► : Forward play button
   ◄◄ / I◄◄, ►►I / ►► : Fast forward/Rewind buttons
   ■ : Stop button
6. MD controls
   CD/MD REPEAT: Repeat button
   MD II : Pause button
   MD PLAY MODE: Play mode button
   MD ● : Record button
   MD ► : Play button
   ◄◄ / I◄◄, ►►I / ►► : Skip/
   Search buttons
   ■ : Stop button
   SHIFT: Shift button
   SCROLL: Scroll button
   AUTO MARKER: Auto marker button
   REC MODE: Record mode button
   DISPLAY MODE: Display mode button
7. Number buttons
8. Video function button (VIDEO)
9. General controls
   SUPER BASS: Super bass button
   MUTE–20dB: Audio muting button
   VOLUME: Volume buttons

Number buttons (1-9, 0, +10, +100)

If the function is "CD" or "MD", the buttons select the track numbers on a disc (CD or MD).
If the function is "TUNER", the buttons select preset radio stations.
With any other function, the buttons will not function.
Example:
In the CD/TUNER function
To select No. 3, press 3.
To select No. 10, press +10, then 0.
To select No. 25, press +10 twice, then 5.
   (+100 is not used)
In the MD function
To select No. 3, press 3.
To select No. 10, press +10, 1, then 0.
To select No. 25, press +10, 2, then 5.
To select No. 234, press +100, 2, 3, then 4.

Inserting batteries

1
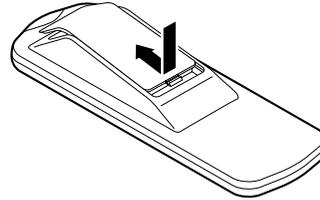
2
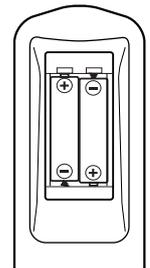
Two R6/AA batteries
(not supplied)

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
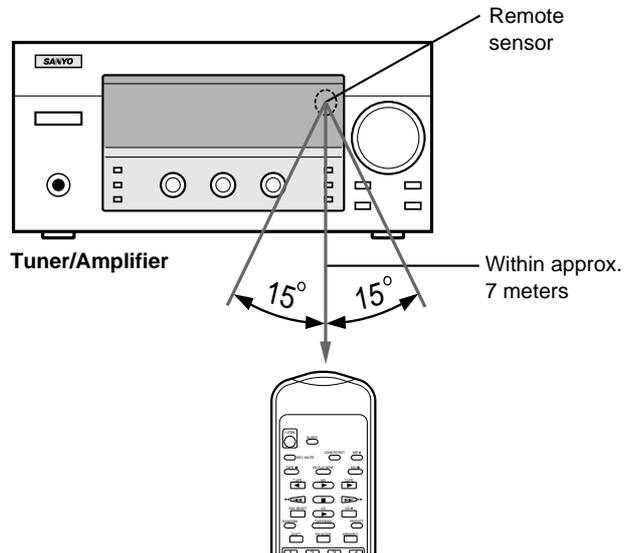
Remote sensor

Tuner/Amplifier

$15°$ $15°$

Within approx. 7 meters

The buttons on the remote control perform similar functions to similarly buttons on the front panel. See "REMOTE CONTROL OPERATION" for more details.

When connecting the mains lead for the first time, the clock display blinks. For easy operation, adjust the clock at that condition.
Example: To set "PM 6:30",
1. Press the MEMORY button.

```
AM  12:00
```

The hours display blinks.
2. Turn the UP/DOWN control to set the hours.

```
PM  6:00
```

3. Press the MEMORY button.

```
PM  6:00
```

The minutes display blinks.

4. Turn the UP/DOWN control to set the minutes.

```
PM  6:30
```

5. Press the MEMORY button. The clock starts, then the clock display disappears.
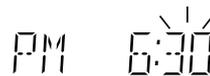   - The time can be set accurately by pressing the MEMORY button when a time signal is heard.

- These operations can be done, even if in power on. First, press the CLOCK/ECO button to display the clock, then follow steps above.
- To display the clock during operation, press the CLOCK/ECO button. Press it again to return to the original display.
- When the display blinks because of a power failure, reset the time.

Turning the power on and off

Press the ⏻/ON button (Tuner/Amplifier). All the units turn on. The displays light and "WELCOME" appears briefly. (After connecting the mains lead, when you press the ⏻/ON button for the first time, the volume reset feature automatically sets the initial volume level.)
To turn the power off, press the ⏻/ON button again. All the units turn off.
- When the mains lead is connected to the AC outlet, the unit will respond to commands from the remote control.

Ecology (low power consumption) standby mode

The unit is set to the ecology standby mode when it is shipped from the factory. When turning the power off, no display appears on the display. To cancel this mode, press the CLOCK/ECO button (in the power is off). The clock appears. Press it again to return to the ecology standby mode.

Direct start function (Remote control only)

If the following buttons are pressed when the unit is in standby, the unit turns on automatically and the selected function is set.
   CD ▶, TUNER/BAND, VIDEO, TAPE ▶, TAPE ◀, MD ▶

Selecting the function

Press the INPUT button to select the desired function (input source). Each time the button is pressed, the display changes as follows:
   CD ⟶ TAPE ⟶ TUNER ⟶ MD ⟶ VIDEO:DVD ⟶
If the following buttons are pressed (except during recording), the function is automatically selected.
   PLAY, DISC SELECT (CD changer), BAND (Tuner/Amplifier), REV PLAY, FWD PLAY (Tape deck), PLAY (MD deck)
- When the function selection is changed, CD play, tape playback or MD play is automatically stopped.

Adjusting the volume

Turn the VOLUME control, (or press the + or – VOLUME button on the remote control). The volume level appears on the display (VOL 0 ~ VOL MAX).

Adjusting the left/right speaker balance

1. Press the BALANCE button. The following indication appears on the display.

```
|- - - BAL
```
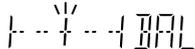
2. Turn the VOLUME control while the balance indication appears to adjust the left/right speaker balance.

Adjusting the tone

Turn the BASS control to adjust the bass sound. The bass level appears on the display (BASS –6 ~ 0 ~ +6).
Turn the TREBLE control to adjust the treble sound. The treble level appears (TREBL –6 ~ 0 ~ +6).

To reduce the volume temporarily (muting)
(Remote control only)

Press the MUTE–20dB button. "MUTE" blinks on the display. To restore the previous volume setting, press the MUTE–20dB button again. "MUTE" disappears.

Bass boost

Press the SUPER BASS button to enhance the bass sound. "BASS" appears on the display.
- The initial setting of this function is ON.

Adjusting the displays brightness (Both Tuner/ Amplifier and MD deck) (Main unit only)

While pressing the MEMORY button, press the CLOCK/ECO button.
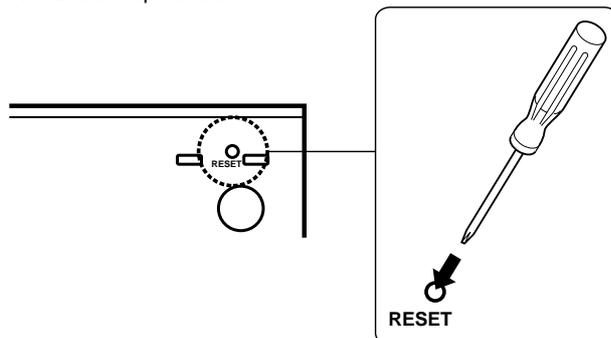   DIMMER 1 ⟶ DIMMER 2 ⟶ DIMMER 0 (initial setting)
To turn off the blue lights on the MD deck, select "DIMMER 2".

WHAT TO DO IF ...

If the operation of the system or display is not normal,
1. Disconnect the mains lead.
2. Press the RESET button (bottom of the Tuner/Amplifier) for at least 30 seconds.
3. Connect the mains lead.
4. Resume the operation.

RESET

CD/MD PREPARATIONS

CD (Compact Disc)
Use CDs bearing the symbol shown below. In addition to conventional 12 cm CDs, the CD changer can be used to play 8 cm CDs without an adapter.

COMPACT disc DIGITAL AUDIO

Notes on handling CDs
- Do not expose the CD to direct sunlight, high humidity or high temperatures for extended periods of time.
- CDs should be returned to their cases after use.
- Do not apply paper or write anything on the disc surface.
- Handle the CD 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 CD.

MD (Mini Disc)
Use MDs bearing the symbol shown below.

Mini Disc

Notes on handling MDs
The disc is enclosed in the cartridge to protect it from dust and fingerprints, but the cartridge can be damaged if it is not stored carefully. Pay attention to the information below.

Disc
Shutter   Cartridge
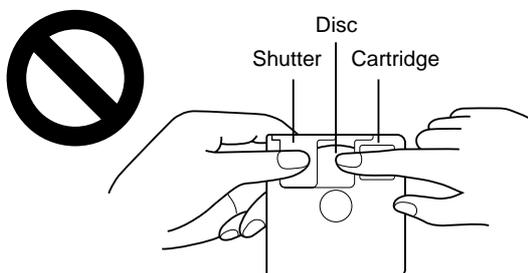
- Do not open the shutter forcibly or touch the disc inside.
- Forcing the shutter open can damage the MD and make it unusable.
- MDs should be returned to their cases after use.
- Do not expose MDs to direct sunlight, high humidity or high temperatures for extended periods. Do not leave them in dusty or sandy locations.
- Carefully wipe dust from the cartridge with a soft cloth. Be careful not to damage the shutter.
- Never use chemicals such as antistatic sprays or fluids, benzene or thinner to clean MD.

Types of MDs
Playback (read only) MD
There is a shutter on one side (back side) of the disc.
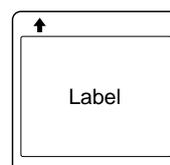
Label

Recordable MD
There are two types of recordable MDs (60-minute and 74-minute). There is a shutter which covers both sides of the disc.

Label   Shutter
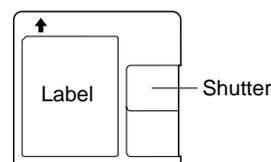
When placing a label on the MD
Please follow the instructions below.
- Make sure to place the label in the correct location (within the recessed labeling area).
- Do not laminate the labels. Remove the old label before placing a new label on the disc.
- When the label is not placed securely, replace it with a new one.

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Note:
- Do not touch the disc tray while it is moving.
- Never place anything except a CD on the disc tray. Foreign objects can damage the unit.
- Do not apply excessive force to the disc tray.
- Discs must be placed on the disc tray one at a time.

If a CD is loaded, you can turn the system on and begin play immediately by pressing the CD ► button (Remote control only).

1. Press the INPUT button (Tuner/Amplifier) to select "CD" function.
2. Press one of the DISC SELECT buttons (1, 2 or 3), then press the ▲ OPEN/CLOSE button. The selected disc tray slides out and "OPEN" appears.
    - If the changer mechanism has detected "NO DISC" for the DISC SELECT button pressed, the tray slides out automatically.
3. Place the CD with the label facing up on the disc tray.

For 12 cm CD   For 8 cm CD

4. Press the ▲ OPEN/CLOSE button again to close the disc tray.
   Note:
    - To open or close the disc tray, be sure to use the ▲ OPEN/CLOSE button. Do not touch the disc tray by hand.
    - If the CD is loaded with the label facing downward, or if a badly scratched CD is loaded, "NO DISC" appears. If this occurs, load the CD correctly or replace the damaged CD.
5. Repeat steps 2 - 4 to load another CD.
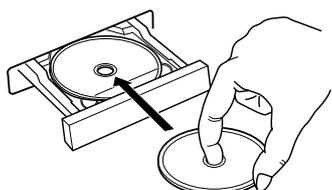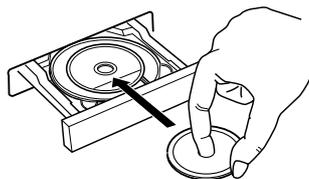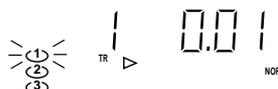6. Press one of the DISC SELECT buttons (1, 2 or 3). The selected disc number indicator (DISC 1, 2 or 3) blinks and PLAY indicator lights. Play starts from the first track of the selected CD.

The track number and elapsed playing time for the current track are displayed.
    - If the desired CD has been selected, the PLAY button can also be used to start play.
7. Press the STOP button to end CD play.
   When the last track of the last CD has been played, the CD changer stops automatically.
- When the ▲ OPEN/CLOSE button is pressed during play, play will stop and the disc tray will slide out.

Ejecting or replacing CDs
1. While in the CD play or stop mode, press one of the DISC SELECT buttons to be ejected, then press the ▲ OPEN/CLOSE button.
    - While the changer is playing one CD, you can eject or replace another CD without stopping play.
2. Remove or replace the CD.
3. Press the ▲ OPEN/CLOSE button.

To start play from the desired track
1. Press the desired DISC SELECT button, then press the STOP button.
2. Select the desired track by using the ►►I / ►► or ◄◄ / I◄◄ button, then press the PLAY button.

Using the remote control
1. Select the desired CD by pressing the DISC SELECT button, then press the ■ button.
2. Press number button(s). (Example: To select track 3, press 3. To select track 12, press +10, then press 2 within 4 seconds.)

Temporarily stopping play
Press the PAUSE button. The PLAY indicator blinks. To resume play, press the PLAY button.

Skip play
To skip to track 6 while track 3 is playing, press the ►►I / ►► button repeatedly until "6" appears in TR on the display. To skip back to track 3 while track 6 is playing, press the ◄◄ / I◄◄ button repeatedly until "3" appears.
- The number button(s) on the remote control can also be used for skip play. To skip to track 6 while one track is playing, press 6.

Search (forward/reverse)
If the ►►I / ►► or ◄◄ / I◄◄ button is pressed during play, the changer will search at high speed in the forward or reverse direction while the button is being pressed. When the button is released, normal play will continue.

Selecting CD play mode
Press the DISC MODE button to select the desired play mode. Each time the button is pressed, the play mode changes as follows.
    TR-1: Play the first track of each CD.
    1-DISC: Play all tracks on the selected CD.
    NOR: Play all tracks on all CDs.

Note:
During programmed play, only "NOR" is selected.

Repeat play (Remote control only)
Press the CD/MD REPEAT button before or during play. The changer will play the tracks that are selected with the CD play mode (or all the programmed tracks) repeatedly. "REPEAT" appears on the display. To cancel repeat play, press the CD/MD REPEAT button again. "REPEAT" disappears.

Random play (Remote control only)
Press the RANDOM button to begin random play. The changer will automatically select and play discs and tracks at random. "RANDOM" appears on the display.
- Random play will not function during programmed play.

Changing CDs during play
While the changer is playing one CD, press one of the DISC SELECT buttons to skip to another CD. "CH DISC" blinks briefly, then play starts automatically from the first track on the selected CD.

PROGRAMMED PLAY (Remote control only)

Up to 32 tracks, from up to 3 CDs, can be programmed for play in any order.
- To begin the programming procedure, select "CD" function first.
- The discs or tracks must be programmed in the stop mode.
- The same disc or track can be programmed more than once.

Follow the example below to programme tracks 6 and 2 on DISC 1 and all tracks on DISC 3. In this example, DISC 3 is in playing position.

1. Press the MEMORY button. "PROG." blinks.
2. Press the DISC SELECT button to select DISC 1.

   AL Pr. 1
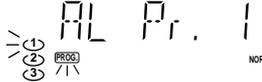
3. Press the ►►I / ►► button to select track 6.
   - The number button(s) can also be used (press 6).

   6 Pr. 1

4. Press the MEMORY button. "PROG." remains lit.
5. Press the ◄◄ / I◄◄ button to select track 2, then press the MEMORY.
6. Press the DISC SELECT button to select DISC 3, then press the MEMORY.

   AL Pr. 3
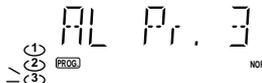
7. Press the CD ► button to start programmed play.

   6 ▷ 0.01

   When all programmed tracks have been played, the changer stops automatically.
   - The programme contents are retained in memory.

- The maximum number of tracks that can be programmed is 32. If you try to enter more tracks, "FULL" appears on the display.
- If a non-existent disc or track number is programmed, that disc or track will be skipped during play.
- The programme is cleared when the ■ button is pressed in the stop mode.

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

Changing a programme
To add a new track to a programme:
1. In the stop mode, press the MEMORY button repeatedly until "- - - - .- -" is displayed.
2. Select a CD and track as explained above.
3. Press the MEMORY button.

To change a track:
1. In the stop mode, press the MEMORY button repeatedly until the track number to be replaced is displayed.
2. Select a CD and track as explained above.
3. Press the MEMORY button.
Note:
Programmed details cannot be partially deleted or inserted.

LISTENING TO THE RADIO

Tuner/Amplifier

To turn the system on and listen to the last received station, press the TUNER/BAND button (Remote control only).

Automatic/Manual tuning

1. Press the BAND button to select FM or AM.
2. **Automatic tuning**
   Press the TUNING MODE button to select "AUTO", then turn the UP/DOWN control to tune in a station.
   - Or press the ▶▶I / ▶▶ or ◀◀ / I◀◀ button on the remote control for at least 1 second.
   The unit will scan up or down the band and receive the next receivable station. Perform the same operation to continue.
   Manual tuning
   Press the TUNING MODE button to select "MANUAL", then turn the UP/DOWN control until the desired frequency is displayed.
   - Or press the ▶▶I / ▶▶ or ◀◀ / I◀◀ button on the remote control briefly.

$$FM\ 103.25\ \text{MHz}$$

To preset stations

Up to 24 FM and 12 AM stations can be preset.

Automatic presetting (APT) (Main unit only)

1. Press the BAND button to select FM or AM.
2. Press the MEMORY button for at least 3 seconds. "PROG." blinks. The automatic tuning mode is set and automatic presetting begins from the low end of the band.
   When 24 FM or 12 AM stations have been preset or the high end of the band is reached, automatic presetting stops. "PROG." disappears and the station memorized on channel 1 will be heard.
3. To preset stations on the other band, follow steps above.

Note:
If APT is activated, all previously programmed stations of the band will be cleared and new stations will be programmed.

Manual presetting

1. Tune in the station to be preset as described in "Automatic/Manual tuning".
2. Press the MEMORY button. "PROG." blinks.
3. While "PROG." is blinking, turn the UP/DOWN control (or press the PRESET button on the remote control) to select the channel to be preset.

$$9\ 103.25\ \text{MHz}$$
PROG.

4. While "PROG." is blinking, press the MEMORY button.
   - In this example, "103.25 MHz" FM station is preset on FM channel 9.
   - To preset the station directory, press the number button(s) on the remote control. In this example, press 9 after the step 2 above.
5. Repeat the steps above to add more preset stations.

- When presetting a new station, the previous preset station is cleared.

Listening to preset stations

1. Press the BAND button to select FM or AM.
2. Press the TUNING MODE button to select "PRESET", then turn the UP/DOWN control to select the desired channel.
   - Or press the PRESET button on the remote control briefly.
   - The number button(s) on the remote control can also be used.

Preset scan tuning (Remote control only)

1. Press the TUNER/BAND button to select FM or AM.
2. Press the PRESET button for at least 1 second. The channel number blinks. Each of the preset stations is tuned in for 5 seconds.
3. When the desired station has been tuned in, press the PRESET button again to keep the reception locked at that station.

To receive FM stereo broadcasts

Make sure that "MONO" is not displayed. If "MONO" appears, press the FM MODE button to turn the "MONO" indication off.
"ST" appears when an FM stereo broadcast is received.

- If the signal from an FM stereo station is weak and reception is poor, press the FM MODE button to change to the MONO mode. The reception may be improved, but the sound will be monaural.

When beat interference is heard (Main unit only)

A high-pitched noise called "beat" is sometimes heard during reception of radio broadcasts. If this occurs,

1. Press the MEMORY button.
2. While "PROG." is blinking, press the TUNING MODE button to select "Bc-A" or "Bc-B". Select the setting that gives the best results.

**Changing the AM reception frequencies (Main unit only)**
It is not necessary to perform this procedure in the Australia and New Zealand.
1. Press the BAND button to select "AM".
2. While pressing the MEMORY button, press the SET/CLEAR button.

522 - 1611 kHz (9 kHz steps) ⟷ 520 - 1610 kHz (10 kHz steps)

If a cassette is loaded, you can turn the system on and begin play immediately by pressing the TAPE ► or TAPE ◄ button (Remote control only).

1. Press the INPUT button (Tuner/Amplifier) to select "TAPE".
2. Press the cassette holder (▲ EJECT portion) to open it.
3. Load the cassette.
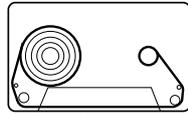
After loading the cassette, push the cassette holder (▲ EJECT portion) back into position.
4. Set the ▯▯ B NR button according to whether the tape has been recorded with the Dolby B NR system or not.
   With Dolby B NR .... " ▯▯ B" appears
   Without Dolby B NR .... " ▯▯ B" disappears
5. Select the reverse mode with the REV MODE button as desired.
6. Press the FWD PLAY or REV PLAY button to begin playback. The selected indicator lights.
   FWD PLAY: Forward play
   REV PLAY: Reverse play

7. Press the STOP button to stop playback at any time.
   When the end of the tape has been reached, automatic stop or reverse will be activated.

Types of usable tapes
The type of tape used is automatically identified by the system since deck employs an auto tape selection system. The following types of tape can be used with this system.
   Normal
   CrO$_2$
   Metal (Only for playback)
Note:
- CrO$_2$/Metal 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-100 (or longer) tapes. They may jam in the mechanism.

Auto reverse
Press the REV MODE button to select the reverse mode as desired.
⇄ :
   For listening to one side of the tape only.
⊃⊃ :
   For listening to both sides of the tape in succession.
   - If playback has been started from the reverse side, only the reverse side will be played back.
⊂⊃ :
   For listening repeatedly to both sides of the tape.

Tape counter
The counter appears on the display and helps you to quickly locate the recorded selection for playback.

To reset the tape counter to "000", press the STOP button in the stop mode.

Fast forward and rewind
Press the ►► or ◄◄ button. The FWD PLAY or REV PLAY indicator blinks. When the desired location has been reached, press the STOP button.

Dolby NR system
Dolby Noise Reduction circuitry provides superior recording and playback results by suppressing tape hiss by up to 10 dB.
Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ▯▯ are trademarks of Dolby Laboratories Licensing Corporation.

If a MD is loaded, you can turn the system on and begin play immediately by pressing the MD ► button (Remote control only).

Press the ⏻/ON button (MD deck) to turn the power on if necessary. "SANYO", then "No Disc" appears on the display.
- If the system (Tuner/Amplifier) is turned off, the ⏻/ON button (MD deck) will not function.
1. Press the INPUT button (Tuner/Amplifier) to select "MD" function.
2. Gently inset the MD with the label facing up.
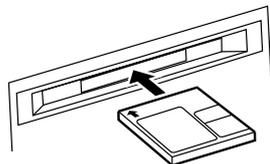
The MD is retracted automatically. "Welcome", then "TOC Reading" appears. The display shows the contents of the disc (the disc name, total number of tracks and total playing time, for example).
3. Press the PLAY button. The PLAY indicator lights and play starts from the first track. (If the track name is memorized, the track name appears briefly.)

TRACK

$$1 \quad 0m \quad 01s$$

►   L ■■■■■■■ R ■■■■■■ -∞-40 -20 -12 -8 -4 0 dB

The track number, elapsed playing time for the current track and input level are displayed.

To start play from the desired track
- Select the track by turning the MULTI JOG control, then press the PLAY button.
- If using the remote control, press the number button(s). (Example: press 3.)
4. Press the STOP button to end MD play.
When the last track has been played, the MD deck stops automatically.

To turn the MD deck off, press the ⏻/ON button (MD deck).

Temporarily stopping play
Press the PAUSE button. The PLAY indicator blinks. To resume play, press the PLAY or PAUSE button.

Ejecting the MD
Press the ▲ EJECT button.

Changing display mode (Remote control only)
While pressing the SHIFT button, press the DISPLAY MODE button. Each time the button is pressed, the display mode changes as follows.
In the stop mode:
Remaining time of entire disc ⟶ Disc name (or No Name) ⟶ Total number of tracks and total playing time (initial setting)
In the play mode:
Track number and remaining time of the track ⟶ Track name (or No Name) ⟶ Track number and elapsed playing time (initial setting)
In the recording mode:
Remaining time of entire disc ⟶ Track number and elapsed recording time (initial setting)

To scroll the disc name or track name on the display
(Remote control only)
In the disc or track name (more than 13 characters) is displayed, while pressing the SHIFT button, press the SCROLL button.

Skip play
To skip to track 26 while track 3 is playing, turn the MULTI JOG control until "26" appears in TRACK on the display.
- The number button(s) on the remote control can also be used for skip play. To skip to track 26 while one track is playing, press +10, 2, then 6.

Search (forward/reverse)
If the ►► or ◄◄ button is pressed during play, the deck will search at high speed in the forward or reverse direction while the button is being pressed. When the button is released, normal play will continue.

Repeat play (Remote control only)
Press the CD/MD REPEAT button before or during play to select the desired repeat mode. Each time the button is pressed, the repeat mode changes as follows.
REPEAT: All tracks repeat mode.
REPEAT 1: One track repeat mode.
Released: Normal play mode.

Random play (Remote control only)
1. In the stop mode, press the MD PLAY MODE button to select random play mode. "RANDOM" appears on the display.
2. Press the MD ► button to begin random play. The deck will automatically select and play tracks at random.
- To cancel this mode, press ■ button, then press the MD PLAY MODE twice.

MD PROGRAMMED PLAY (Remote control only)

Up to 30 tracks can be programmed for play in any order.
- To begin the programming procedure, select "MD" function first.
- The tracks must be programmed in the stop mode.
- The same track can be programmed more than once.
- Load a MD that you want to programme before starting programmed play.

Example:
To programme tracks 6, 33 and 234
1. Press the MD PLAY MODE button to select programmed play mode. "PROGRAM" and "0 Step 0" appear on the display.
2. Press "6" number button.

TRACK

PROGRAM $6 \quad Step \quad 1$

3. Press "+10", "3", then "3".
4. Press "+100", "2", "3", then "4".
- If you make a mistake, press the ■ button. Each time the button is pressed, the programme erases sequentially from the track that was entered last.
- The MULTI JOG control on the main unit can also be used. Turn the control to select the track, then press the control.
5. Press the MD ► button to start programmed play.

TRACK

PROGRAM $6 \quad 0m \quad 01s$

►   L ■■■■■■■ R ■■■■■■ -∞-40 -20 -12 -8 -4 0 dB
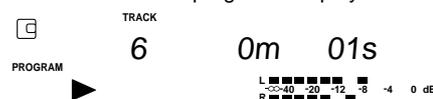
When all programmed tracks have been played, the deck stops automatically.
- The programme contents are retained in memory.

- The maximum number of tracks that can be programmed is 30. If you try to enter more tracks, "Full" appears on the display.
- Programmed details cannot be changed.
- The programme is cleared when the MD PLAY MODE button is pressed in the stop mode.

Note:
When turning the power off in the ecology standby on mode, random play and programmed play modes are cancelled. Pay attention in the timer operation.

LISTENING TO VIDEO SOURCES/DVD

1. Press the INPUT button to select "VIDEO:DVD".

2. Follow the instructions supplied with the video equipment/DVD player.

BEFORE TAPE RECORDING

1. Press the cassette holder (▲ EJECT portion) to open it and load the cassette for recording.
2. Set the ▢▢ B NR button to ON or OFF as desired.
   Dolby B NR ON .... " ▢▢ B" appears
   Dolby B NR OFF .... " ▢▢ B" disappears
3. Press the REV MODE button to select the reverse mode.
   ⊐ :
   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 reverse mode has been set to "⊂⊐⊃", "⊐" appears automatically when the recording mode is established.

Automatic record muting (Remote control only)

Undesirable parts of a programme can be omitted while recording.
Press the REC MUTE button once while recording. The REC PAUSE indicator blinks and a 5-second unrecorded blank space is created, then the deck enters the recording pause mode. The REC PAUSE indicator lights and the REV or FWD PLAY indicator blinks.
- To add another 5-second blank space, press the REC MUTE button again.
- To resume recording, press the TAPE ► or ◄ button (to match the blinking PLAY indicator).

Note:
The record muting function does not operate during CD/MD computer recording.

Safeguards against accidental erasure

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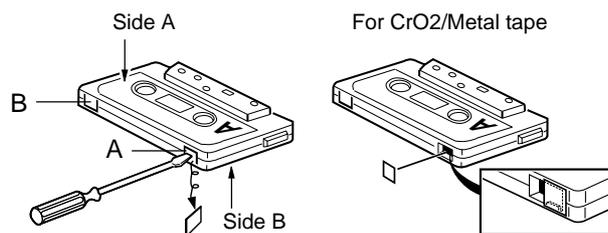
Break out tab A for side A.
Break out tab B for side B.

TAPE RECORDING

CD TO TAPE COMPUTER RECORDING

With computer recording, you can record a CD onto a cassette by pressing just one button.

1. Load the CD(s) to be recorded.
2. Load the blank cassette for recording.
3. Press the REV MODE button to select "⊃⊂" mode.
4. Select "CD" function.
   - For programmed recording from up to 3 CDs, programme the material in advance (as described under "PROGRAMMED PLAY").
5. Press the DISC SELECT button (1, 2 or 3) to select the disc to be recorded first, then press the STOP button (CD changer).
   - For programmed recording, this step is unnecessary.
6. Make sure that the CD changer and tape deck are both in the stop mode.
7. Press the COMPU REC button. Once the button is pressed, all operations take place automatically. The COMPU REC indicator lights and "CD –> TP" appears on the display.

   The system automatically performs the following functions:
   Tape deck:
   - The tape rewinds to the beginning.
   - Recording starts in the forward direction.
   CD changer:
   - The changer searches for the first track to be recorded, then enters the pause mode.
   - CD play starts.

   The FWD PLAY, REC PAUSE, COMPU REC (Tape deck), PLAY (CD changer) indicators light and the selected disc number indicator (CD changer) blinks as recording begins. The following display appears.
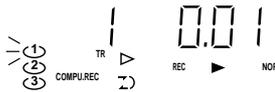
   When the end of the tape (side B) is reached, the CD changer and deck stop automatically.
   - If the last track on the CD plays completely before the end of the tape, CD play stops automatically. Deck also stops.

Note:
- Recording starts automatically after 8 seconds, so the recording will not be interrupted by the leader tape at the beginning of tape.
- A 5-second blank space is automatically recorded at the end of each track.
- The recording cannot be paused.

To stop recording at any time, press the STOP button (CD changer or Tape deck).

MANUAL RECORDING

1. Load the cassette.
2. **CD to Tape recording**
   Select "CD" function and play a CD.
   MD to Tape recording
   Select "MD" function and play a MD.
   Tuner to Tape recording
   Tune in the radio.
   Video/DVD to Tape recording
   Select "VIDEO:DVD" function and play a video cassette or DVD.
3. Press the REC PAUSE button. The REC PAUSE indicator lights and both PLAY indicators blink. The tape deck is set to the recording pause mode.
4. Press the FWD PLAY or REV PLAY button. Recording starts.
5. Press the STOP button to stop recording. (CD or MD play continues.)

CD to Tape/MD to Tape synchronous recording

1. Load the cassette.
2. Load the CD and select "CD" function, or load the MD and select "MD" function.
   - For programmed recording, programme the material in advance.
3. Press the REC PAUSE button. The tape deck is set to the recording pause mode.
4. Press the PLAY button (CD changer or MD deck). Recording starts in the forward direction.
   - If CD or MD play pauses, recording also pauses and CD or MD play resumes, recording also resumes.
5. Press the STOP button (CD changer or MD deck) to stop recording.
   - When the STOP button (Tape deck) is pressed, CD or MD play continues.

Temporarily stop recording

Press the REC PAUSE button. Press the FWD or REV PLAY button (to match the blinking PLAY indicator) to resume recording.
- During recording pause mode, CD or MD play continues.

When beat interference is heard (Main unit only)

A high-pitched noise called "beat" is sometimes heard during the recording of radio broadcasts. If this occurs,
While pressing the ◄◄ button, press the ►► button to select "Bc-1" or "Bc-2". Select the setting that gives the best results.

BEFORE MD RECORDING

MD recording system

There are two areas on the MD used for storing data: one for the music (sound), one for an index (track numbers, tracks names, etc.)

Data area
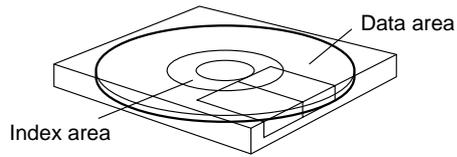
Index area

After each track is recorded, the information regarding the track is written on the index area of the MD. When playing the MD, the MD deck reads this information (TOC) to locate the track. When editing the track information, the deck modifies the information.
(TOC: Table of Contents)
Note:
When "TOC" is lit, do not disconnect the mains lead.

Track number

When recording from a CD

Digital input mode is selected automatically.
Track numbers are assigned automatically in the same order as on the CD. (Synchronized marker)

	Track 1	Track 2	Track 3	
CD	A	B	C	

	Track 1	Track 2	Track 3	
MD	A	B	C	
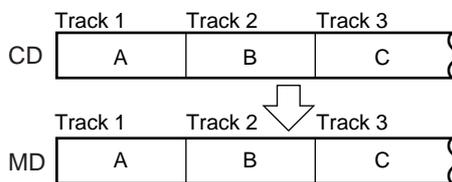
- During CD to MD recording, the recording time may not match.

When recording from the tuner, tape or video

Analog input mode is selected automatically.
A continuous recording is considered to be one track.

Safeguards to prevent accidental erasure

To keep the recorded material permanently, set the tab on the back of the MD to the protect position (open) with a pencil or other sharp implement.
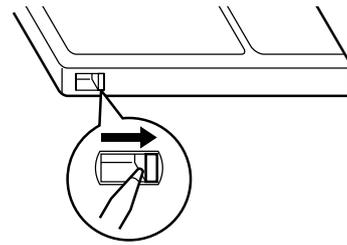
To record or erase, set the tab to the record position (closed).

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MD RECORDING

CD TO MD COMPUTER RECORDING

With computer recording, you can record a CD onto a MD by using just one button.

1. Load the CD(s) to be recorded.
2. Load the MD for recording.
3. Select "CD" function.
4. Press the DISC SELECT button (1, 2 or 3) to select the disc to be recorded first, then press the STOP button (CD changer).
5. Make sure that the CD changer and MD deck are both in the stop mode.
6. Press the COMPU REC button. The COMPU REC indicator blinks. "COMPU REC", then "All Erase?" appears on the MD display.

$$\boxed{\text{C}^{\text{TOC}}_{\text{EDIT}}} \quad A l l \quad E r a s e ?$$

"CD –> MD" appears on the Tuner/Amplifier display.
- Recording starts automatically if the MD is completely blank.
7. Press the COMPU REC button. "REC START" appears briefly. Once the button is pressed, all operations take place automatically. Digital recording mode is selected automatically and recording starts from track 1.
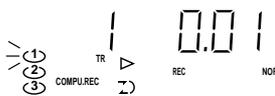   - If "No Digital" blinks, check the connection of the optical cable (CD changer to MD deck).

The PLAY, COMPU REC indicators (MD deck) and PLAY indicator (CD changer) light as recording begins. The following display appears.
MD deck:

Tuner/Amplifier:

- If TOC on CD was not read, recording will not start.

When the recording is completed, the CD changer and MD deck stop automatically. "REC END" appears briefly.

Note:
- If the MD was recorded previously, the MD is erased first then recorded.
- Track numbers are assigned automatically in the same order as on the CD.
- The recording cannot be paused.

To stop recording at any time, press the STOP button (CD changer or MD deck).

Current track one-touch recording

When you want to record music as you listen, press the COMPU REC button.
The CD changer skips to the beginning of the track currently playing. Then recording starts. (The new recording starts after the previously recorded portion.)
When the current track recording is finished, the CD changer and MD deck stop automatically.

MANUAL RECORDING

Previously recorded contents of the MD remain and the selected source is recorded on the blank portion of the MD.
Note:
Do not select "MD" function. If "MD" is selected, the deck may be set to the overwriting mode.

1. Load the MD.
2. **CD to MD recording**
   Select "CD" function and play a CD.
   Tape to MD recording
   Select "TAPE" function and play a cassette.
   Tuner to MD recording
   Tune in the radio.
   Video/DVD to MD recording
   Select "VIDEO:DVD" function and play a video cassette or DVD.
3. Press the REC button. The PLAY indicator blinks and the MD deck is set to the recording pause mode. "New" and "0m 00s" blink alternately.
   - If CD recording is selected, "DIGITAL" appears.
4. Press the INPUT button to select the digital or analog input mode if required.
   DIGITAL: Digital input mode, "DIGITAL" appears.
   ANALOG: Analog input mode, "ANALOG" appears.
   - If "No Digital" blinks, select "ANALOG".
5. While pressing the SHIFT button, press the REC MODE button on the remote control to select the stereo or monaural recording mode.
   STEREO REC: Stereo recording
      The sound is recorded in high quality mode. "STEREO" appears.
   MONO REC: Monaural recording
      Twice the normal recording time is available. "MONO" appears.
6. Press the PLAY or PAUSE button. Recording starts.

- If the REC button is pressed during recording, the track number is added automatically and recording continues.
7. Press the STOP button to stop recording. (CD play or tape playback continues.)

CD to MD/Tape to MD synchronous recording

1. Load the MD.
2. Load the CD and select "CD" function, or load the cassette and select "TAPE" function.
   - For CD programmed recording, programme the material in advance.
3. Press the REC button. The MD deck is set to the recording pause mode.
4. Press the PLAY button (CD changer), or press the FWD or REV PLAY button (Tape deck). Recording starts.
   - If CD play pauses, recording also pauses and CD play resumes, recording also resumes. At this time, the track number is added automatically.
5. Press the STOP button (CD changer or Tape deck) to stop recording.
   - When the STOP button (MD deck) is pressed, CD play or tape playback continues.

Temporarily stop recording

Press the PAUSE button. The PLAY indicator blinks. To resume recording, press the PLAY or PAUSE button. At this time, the track number is added automatically.
- During recording pause mode, CD play or tape playback continues.

CD to Tape/CD to MD parallel recording

1. Load the cassette and MD.
2. Load the CD and select "CD" function.
3. Press the REC PAUSE button (Tape deck). The tape deck is set to the recording pause mode.
   Press the REC button (MD deck). The MD deck is set to the recording pause mode.
4. Press the PLAY button (CD changer). CD to tape and MD parallel recording starts.
5. Press the STOP button (CD changer) to stop recording.

Marking the track number automatically

Track automatic marker

If there is a quiet passage in the music lasting more than 2 seconds, when recording from a tape or VIDEO, a new track number is made automatically.

Approx. 2 seconds

♩ ♪ ♫ ♩ ♪ ♩ ♪	No signal	♩ ♫

Track 1   Track 2

♩ ♪ ♫ ♩ ♪ ♩ ♪	♩ ♫
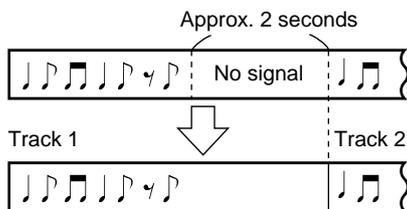
While pressing the SHIFT button, press the AUTO MARKER button on the remote control to display "Tr.MARK" in the stop or recording pause mode.

Time automatic marker

A new track number is assigned automatically at the set intervals (1, 2, 3, . . . 97, 98 and 99 minutes).

1. While pressing the SHIFT button, press the AUTO MARKER button to display "Ti.MARK" in the stop or recording pause mode.
   "Mark 05min" appears and "Ti.MARK" blinks.
2. Turn the MULTI JOG control to select the desired time.
   - The ►►I / ►► or ◄◄ / I◄◄ button on the remote control can also be used.
3. Press the MULTI JOG control or ENTER button. "Ti.MARK" remains lit.

To cancel automatic marker

While pressing the SHIFT button, press the AUTO MARKER button until "Tr.MARKER" or "Ti.MARKER" disappears.

RECORD ON A PRE-RECORDED MD

You can record from the beginning of any pre-recorded track on an MD (Overwriting).
If you do so, previous records (track and track name) will be erased.

Select the track to be recorded

Track 1   Track 2   Track 3

Track 1   Track 2   Track 3

New tracks are recorded (overwritten).
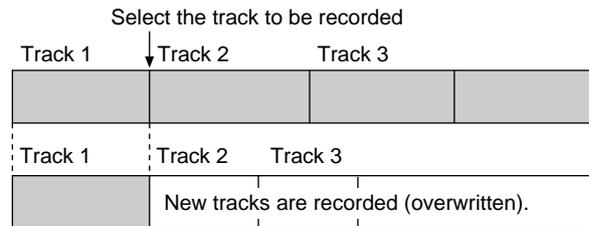
1. Load the MD and select "MD" function.
2. Turn the MULTI JOG control to select the track to be started a new recording.
3. Press the REC button. The PLAY indicator blinks and the MD deck is set to the recording pause mode. "Over Rec" and "0m 00s" blink alternately.
4. Select the desired function to be recorded.
5. Tuner or Video/DVD function: Press the PLAY or PAUSE button (MD deck).
   CD function: Press the PLAY button (CD changer).
   Tape function: Press the FWD or REV PLAY button (Tape deck).
   "TRACK" blinks and recording starts.
6. Tuner or Video/DVD function: Press the STOP button (MD deck).
   CD function: Press the STOP button (CD changer).
   Tape function: Press the STOP button (Tape deck).
   Recording stops.

This deck is capable of editing a recorded MD. You can modify an MD as you wish.

Note:
- If "Protected" or "TRK Protect" appears, you cannot edit the MD.
- "Complete!" appears after each edit. The edit information will be saved after recording is stopped, when the ▲ EJECT button is pressed, if the power is switched off or if the MD is stopped for 5 minutes. If "TOC" appears, the edit information has not been saved yet.

Moving the tracks (MOVE)
You can change the order of previously recorded material. The new order is saved to the disc and it does not change even when the power is off.

Example: To move selection D of track 4 to the track 2 position

Track 1	Track 2	Track 3	Track 4
A	B	C	D

Track 1	Track 2	Track 3	Track 4
A	D	B	C

1. Press the PAUSE button while playing the track you want to move. The PLAY indicator blinks and the deck is set to the pause mode.
2. Press the EDIT button repeatedly to display "Move ?".

<center>TOC/EDIT   TRACK</center>
<center>*4 Move ?*</center>
<center>► ❙❙</center>

- Each time the button is pressed, the display changes as follows.
  Erase ? → Divide ? → Combine? → Move ? → Name ? → (Released)

3. Press the ENTER button.

<center>TOC/EDIT   TRACK</center>
<center>*4 Tr -> 1 Tr O K ?*</center>
<center>► ❙❙</center>

4. Turn the MULTI JOG control to select track 2.
   - The number button(s) on the remote control can also be used.
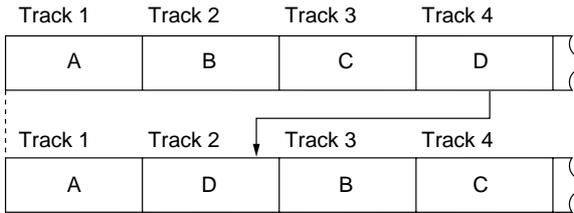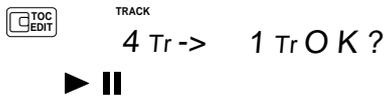5. Press the ENTER button. The selection is moved to the track 2 position. The deck is set to the pause mode at the beginning of the moved track.

- If you don't want to move the track, press the STOP button before performing step 5 above.

Dividing the track (DIVIDE)
You can divide a track at any point within the track.

Example: To divide track 2 into two tracks at the desired location

Track 1	Track 2		Track 3
A	B	C	D

Track 1	Track 2	Track 3	Track 4
A	B	C	D
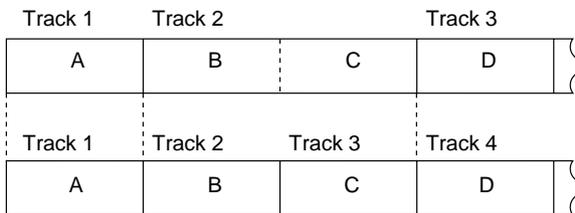
1. Press the PAUSE button while playing track 2.
2. Press the EDIT button to display "Divide ?".

<center>TOC/EDIT   TRACK</center>
<center>*2 Divide ?*</center>
<center>► ❙❙</center>

3. Press the ENTER button. "2Tr OK?" appears.

4. Turn the MULTI JOG control to select the point where you want to divide the track. The display changes as follows.

<center>. . . → –02 → –01 → +00 → +01 → +02 → . . .</center>
(or in the reverse sequence)

Then "2Tr OK?" appears.
5. Press the ENTER button. The track is divided into two tracks. Play starts from the beginning of the last track which was separated.
- If the track cannot be divided, "Sorry" appears.

Combining tracks (COMBINE)
You can combine many tracks into one.

Example: To combine track 2 with track 3

Track 1	Track 2	Track 3	Track 4
A	B	C	D

Track 1	Track 2		Track 3
A	B	C	D
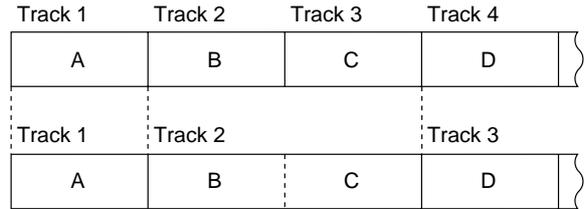
1. Press the PAUSE button while playing track 3.
2. Press the EDIT button to display "Combine?".

<center>TOC/EDIT   TRACK</center>
<center>*3 Combine?*</center>
<center>► ❙❙</center>

3. Press the ENTER button. "2Tr+ 3TrOK?" appears.
4. Press the ENTER button. The two tracks are combined into one. Play starts from the beginning of combined track.

Note:
You cannot combine tracks under the conditions shown below:
- A track recorded in stereo mode with a track recorded in monaural mode.
- A digitally recorded track with an analog recorded track.

Erasing tracks individually (ERASE)
You can erase the track as desired.

Example: To erase the selection C

Track 1	Track 2	Track 3	Track 4
A	B	C	D

Track 1	Track 2	Track 3	
A	B	D	E
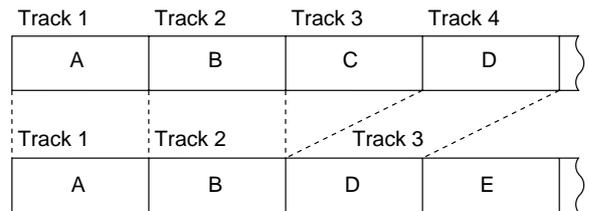
1. Press the PAUSE button while playing track 3.
2. Press the EDIT button to display "Erase ?".

<center>TOC/EDIT   TRACK</center>
<center>*3 Erase ?*</center>
<center>► ❙❙</center>

- If you want to cancel, press the STOP button.
3. Press the ENTER button. The track is erased. The deck is set to the pause mode at the beginning of next track.

Erasing all tracks on the MD (ALL ERASE)

You can erase all tracks on the MD at once.

1. Load the MD to be erased.
2. Press the EDIT button to display "All Erase?".

   All   Erase?

   - Each time the button is pressed, the display changes as follows:
     All Erase? ⟶ Name Erase? ⟶ Disc Name? ⟶ (Released)

3. Press the ENTER button. "Really" appears.
   - If you want to cancel, press the STOP button.
4. Press the ENTER button. All tracks and track names are erased. "Blank Disc" appears.

## Before naming the disc or tracks

One disc name and a maximum of 254 track names can be entered into one MD.

- A total of 1700 characters (approx.) can be entered into one MD for the disc name and track names. If you try to enter more characters, "Name Full" appears.

Entering a disc name

Example: Enter "Love Song" for the disc name

1. Press the STOP button.
2. Press the EDIT button to display "Disc Name?".

   Disc   Name?
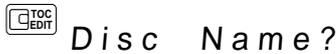
3. Press the ENTER button. The cursor blinks.

   - If you want to cancel, press the STOP button.
4. Turn the MULTI JOG control until "L" appears. The character changes as follows.

   Upper case alphabet (A,B,C, . . . Y, Z)
   Lower case alphabet (a,b,c, . . . y, z)
   Number (0,1,2, . . . 8, 9)
   Mark (!,",#, . . . `,)
   (or in the reverse sequence)

   L

5. Press the MULTI JOG control to skip to the next character.

6. Turn the MULTI JOG control until "o" appears.
7. Press the MULTI JOG control to skip to the next character.
8. Enter "v", "e", " ", "S", "o", "n" and "g" as explained above.
   Note:
   - When you press the MULTI JOG control more than two times, a space is made.
   - If you make a mistake, press the ►► or ◄◄ button to move the cursor until the incorrect character blinks. Turn the MULTI JOG control to enter the correct character.
9. Press the ENTER button. The disc name is entered and it appears briefly.

When you enter more than 13 characters, the first 12 characters appear, then all characters scroll once on the display.

Entering track names

1. In the stop mode, turn the MULTI JOG control to select the desired track number.
2. Press the EDIT button to display "Name ?".
3. Press the ENTER button.
4. Enter the track name. (Refer to "Entering a disc name".)
5. Press the ENTER button. The track name is entered.

Clearing the disc name and all track names

1. Press the STOP button.
2. Press the EDIT button to display "Name Erase?".
3. Press the ENTER button.

Using the timer (Main unit only)

Set the on and off times, function to be used and volume level. Operation will start with the selected function at the on time. The sound will be gradually increased from a no-sound level to the volume setting (fade-in). The power will be switched off at the off time.
The timer will function every day unless it is released.

Preparation

Note:
Make absolutely sure that the clock is set to the correct time before setting the timer.

- Select the function for timer operation and prepare the sources to be used.
  - If the function selected is tuner, tune in to the desired band and station.
  - For tape deck: Tape playback/recording will start in the forward direction.
- Adjust the volume level as desired.
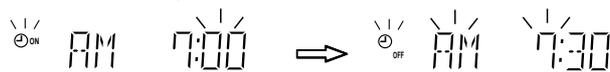
Operation

1. Press the TIMER button.

   ⏱**ON** AM 12:00
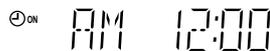
   The previous timer on time setting appears.
2. Press the MEMORY button within 10 seconds.

   ⏱**ON** AM 12:00

3. Set the timer on time by turning the UP/DOWN control, then press the MEMORY button (as described under "ADJUSTING THE CLOCK").

   ⏱**ON** AM 7:00 ⟹ ⏱**OFF** AM 7:30

   The timer off time setting appears.
4. Set the timer off time as described in step 3.

   ⏱**OFF** AM 8:30 ⟹ ⏱ CD PLAY

   The previous timer mode setting and the current function appear.
5. Select the timer mode by turning the UP/DOWN control.
   - Each time the control is turned one click, the display changes as follows.

   When the function is "CD", "TUNER" or "VIDEO DVD"
   ⏱ (CD, TU or AX) PLAY ⟷ ⏱REC (CD, TU or AX) > TP
   ⟷ ⏱REC (CD, TU or AX) > MD
   When the function is "MD"
   ⏱ MD PLAY ⟷ ⏱REC MD > TP
   When the function is "TAPE"
   ⏱ TP PLAY ⟷ ⏱REC TP > MD

   Example:
   ⏱ CD PLAY: CD timer play
   ⏱REC TU > TP: For unattended recording tuner to tape
   ⏱REC TU > MD: For unattended recording tuner to MD

6. Press the MEMORY button.
   The original display returns, then the timer operation standby mode is activated. "⏱" (or "⏱ REC") remains lit.
7. Press the ⏻/ON button to switch off the power.

- "⏱" (or "⏱ REC") blinks during a timer controlled operation.
- To switch off the power during a timer controlled operation, press the ⏻/ON button. The timer will be set in the standby mode.

To check the timer settings

Press the TIMER button repeatedly. The timer settings are displayed in the following order:
   On time ⟶ Off time ⟶ Timer mode/Function ⟶ Original display returns

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

To release the timer

After turning the power on, press the TIMER button, then the SET/CLEAR.

To set the timer again with the same settings

1. Press the TIMER button, then the SET/CLEAR.
2. Press the ⏻/ON button to switch off the power.

Note:
- If the SET/CLEAR button 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 may not operate if a power failure occurs during timer operation standby mode.

Using the sleep timer (Remote control only)

The sleep 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 12 time periods available: 120, 110, 100, 90, 80, 70, 60, 50, 40, 30, 20, and 10 minutes.

Press the SLEEP button repeatedly to select the desired sleep time.

   SLEEP SLEEP 60

After several seconds, the original display returns and the brightness of the display reduces. "SLEEP" blinks.

To check the remaining sleep time

Press the SLEEP button once. After several seconds, the original display returns.

To release the sleep timer while in operation

Press the SLEEP button repeatedly until "SLEEP" disappears. The timer is also released if the power is switched off.

MAINTENANCE

Cleaning the tape head (Tape deck)

To ensure continued high performance, use cotton swab to clean the heads, pinch rollers and capstans 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.

Cleaning the unit

Clean the outside of the unit with a clean soft cloth, moistened with lukewarm water. Do not use benzene, thinner or alcohol since they will mar the finish of the surfaces.
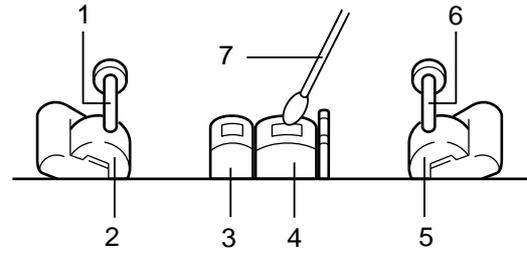
1, 6.	Capstan
2, 5.	Pinch roller
3, 4.	Head
7.	Cotton swab

REMOTE CONTROL OPERATION

Note:
The buttons on the remote control perform similar functions to similarly buttons on the front panel.

General

Power on/off	⏻/ON
Adjust volume	– or + VOLUME
Bass boost	SUPER BASS
Select "Video/DVD" function	VIDEO
Temporarily mute the sound	MUTE –20dB
Set/Check sleep time	SLEEP

- "CD" is automatically selected when the CD ►, DISC SELECT button is pressed.
- "TUNER" is automatically selected when the TUNER/BAND button is pressed.
- "TAPE" is automatically selected when the TAPE ►, ◄ button is pressed.
- "MD" is automatically selected when the MD ► button is pressed.
- If the following buttons are pressed when the unit is in standby, the unit turns on automatically and the selected function is set.
    CD ►, TUNER/BAND, VIDEO, TAPE ►, ◄ , MD ►

CD changer

Select "CD" and/or Start play	CD ►
Select the desired disc and track	DISC SELECT ⟶ ◄◄ / I◄◄, ►►I / ►► or (1 - 9, 0, +10)
Programmed play	In CD mode MEMORY ⟶ DISC SELECT ⟶ ◄◄ / I◄◄, ►►I / ►► or (1 - 9, 0, +10) ⟶ MEMORY ⟶ CD ►
Temporarily stop play	During play CD II
Skip play	During play ◄◄ / I◄◄ or ►►I / ►► (press once) or (1 - 9, 0, +10)
Search	During play ◄◄ / I◄◄ or ►►I / ►► (press continuously)
Repeat play	During play CD/MD REPEAT
Random play	In CD mode RANDOM
Stop play	■

Tuner

Select "TUNER" and/or Select band	TUNER/BAND
Station tuning	In TUNER mode ◄◄ / I◄◄ or ►►I / ►►
Preset station	After tuning MEMORY ⟶ (1 - 9, 0, +10)
Select preset station	In TUNER mode (1 - 9, 0, +10) or PRESET
Preset scan tuning	In TUNER mode PRESET (press for at least 1 second) ⟶ PRESET
Select FM mode	In TUNER mode FM MODE

Tape deck

Select "TAPE" and/or Start playback	TAPE ► or ◄
Fast forward/Rewind	In TAPE mode ◄◄ / I◄◄ or ►►I / ►►
Start recording	TAPE ● ⟶ TAPE ► or ◄
Temporarily stop recording	During recording TAPE ●
Record mute	During recording REC MUTE
Stop playback	■

MD deck

Select "MD" and/or Start play	MD ►
Select the desired track and play	In MD mode (1 - 9, 0, +10, +100)
Temporarily stop play	During play MD II
Changing display mode	In MD mode SHIFT + DISPLAY MODE
Scroll disc/track name display	When disc/track name is displayed SHIFT + SCROLL
Skip play	During play ◄◄ / I◄◄ or ►►I / ►► (press once) or (1 - 9, 0, +10, +100)
Search	During play ◄◄ / I◄◄ or ►►I / ►► (press continuously)
Repeat play	During play CD/MD REPEAT
Random play	In MD mode MD PLAY MODE (select "RANDOM") ⟶ MD ►
Programmed play	In MD mode MD PLAY MODE (select "PROGRAM") ⟶ (1 - 9, 0, +10, +100) ⟶ MD ►
Start recording	MD ● ⟶ MD ► or MD II
Temporarily stop recording	During recording MD II
Stop play	■
Select recording mode (Stereo/Mono)	In recording pause mode SHIFT + REC MODE
Select the automatic marker	In MD mode SHIFT + AUTO MARKER

MD MESSAGES

Refer to the following chart if a massage appears on the display.

DISPLAY	EXPLANATION	CORRECTIVE ACTION
Blank Disc	No signal is recorded on the MD.	
Cannot Copy	Recording was attempted from a copy-protected CD.	Use another CD.
Disc Error	The MD is scratched or damaged. The TOC was not written.	Replace the MD.
Toc Error	The TOC was written incorrectly.	Replace with another MD.
Cheat Disc!	Data on the MD was damaged.	Replace with another MD.
No Disc	The MD is not inserted.	Insert the MD, or reinsert the MD.
Protected	The erasure protection tab is set to the protect position.	Set the tab to the recording position.
TRK Protect	The track was set to "track protect" in another MD recorder.	Reset the track protect in original MD recorder.
No Digital	No digital signal is received.	Check the connection of the optical cable.
Disc Full	No blank space is available on the MD.	Replace with another recordable MD. Erase undesirable tracks.
Track Full	No space is available in the TOC for (track name, disc name, etc.)	Replace with another MD.
Cannot EDIT	Random play or programmed play mode is selected. Read-only MD is inserted.	Select normal play mode.
Impossible	Combining was attempted from track 1 while editing.	Select track 2 (or over).
Name Full	Disc and track names are more than 1700 characters.	Shorten the name.
Sorry	Combining was attempted with tracks which cannot be combined. Dividing was attempted at the beginning of track while editing.	
EDIT Busy	Editing is busy.	Wait until "EDIT Busy" disappears.
REC Error	The unit was disturbed while recording (vibration, shock, etc.)	Make the recording again.
REC Busy	Recording is busy and recording may not be done correctly.	Wait until "REC Busy" disappears. Check the recordings.
UTOC Error	The unit was disturbed while saving recordings (vibration, shock, etc.)	Recordings may not be saved correctly. Check the recordings.

MD SYSTEM CAPABILITIES

MDs are recorded differently from cassettes. The MD recording system makes it possible to add or change disc and track titles after the recording is done. It is also possible to change the playback order without making a new recording.

Because of these special features, the following symptoms may occur while using the MD. These symptoms are not an indication of a defect, but they occur because of the methods used for storing digital data on the disc.

SYMPTOM	LIMITATION
"Track Full" may appear even when there is blank space available on the data area of the MD.	The starting and ending points for each track are stored in the TOC. When you erase or record a portion of the MD many times, or perform editing of existing tracks, portions of each track may be located on various portions of the MD. For this reason, the storage capacity of the TOC may be filled before the total number of tracks has reached the limit (254 max.). When this occurs, no more recording can be done on the MD. (You can record on the MD again if you use "ALL ERASE".)
"Disc Full" may appear when blank space remains on the MD.	If the MD is scratched or otherwise damaged, the damaged portion of the disc is skipped during recording. If this occurs, the total available recording time will be reduced.
There may be times when the total remaining time on the MD does not increase when you erase many short tracks.	Short music tracks lasting less than 12 seconds may not be counted as tracks. For this reason, blank space may not increase when you erase any short tracks.
The total length of the recording time and remaining time may not match the specified recording time of the MD.	The minimum unit of storage on the MD is one cluster, which is equivalent to 2 seconds of recording time. If the recording is less than 2 seconds in length, one cluster is still necessary to store the data. Therefore, the total recording time actually used may be less than the full storage capacity of the MD. In addition, if the disc has any damaged areas, they are skipped during recording, so the defective area has the effect of reducing the available recording time.
Cannot combine tracks while editing.	When you repeatedly edit an MD, you may reach the point where further editing cannot be done. As well, you cannot combine a digital (i.e.-CD) recording track with an analog (i.e.-tuner or cassette) recording track, nor a track recorded in stereo mode with one recorded in monaural mode.
When using the SEARCH feature, the sound skips.	The sound may skip during music search when using an MD which was partially recorded repeatedly.

Note:

You cannot copy a CD to an MD, then make another digital copy of the MD which was recorded on this unit.

This copy protection system complies with the Serial Copy Management System. You can, however, make analog copies of MDs recorded on this unit.

SPECIFICATIONS

Tuner/Amplifier

Reception frequency:
FM: 87.5 - 108 MHz
AM: 522 - 1611 kHz
Output power:
50 W x 2 (at 6 ohms, 10% distortion)
Inputs
VIDEO (AUDIO): 500 mV/50k ohms
Outputs
SPEAKERS: 6 ohms
PHONES: 8 - 32 ohms
SUB WOOFER OUT: 10k ohms
Power requirements:
AC 230 - 240 V, 50 Hz
Power consumption:
130 W
0.8 W (Ecology On standby mode)
16 W (Ecology Off standby mode)
Dimensions:
270(W) x 122(H) x 287(D) mm
Weight:
5.3 kg

CD changer

Type:
Changer, 3-disc
Channels:
2-channel stereo
Sampling frequency:
44.1 kHz
Pick-up:
Optical 3-beam semiconductor laser
Laser output:
0.6 mW (Continuous wave max.)
Wave length:
790 nm
Frequency response:
20 Hz to 20 kHz
Wow/flutter:
Below measurable limits
Output:
OPTICAL DIGITAL OUT: Optical
Power supply:
Supplied from the Tuner/Amplifier
Dimensions:
270(W) x 87(H) x 276(D) mm
Weight:
2.3 kg

Speaker systems

Type:
3 way bass reflex
Built-in magnetic stray field compensation
Unit used:
Woofer: 15 cm cone type
Mid range: 8 cm cone type
Tweeter: 3.5 cm balance driver
Maximum power-handling capacity:
100 W (peak)
Nominal impedance:
6 ohms
Dimensions:
230(W) x 343(H) x 253(D) mm
Weight:
4.7 kg (per speaker)

Tape deck (SANYO RD-007, OPTION)

Track system:
4-track, 2-channel stereo
Frequency response:
50 Hz to 16 kHz (CrO_2 tape)
50 Hz to 15 kHz (Normal tape)
Signal-to-noise ratio:
60 dB (Dolby B NR ON)
Wow/flutter:
0.12% (WRMS)
Fast forward/rewind time:
Approx. 110 sec. (C-60)
Power supply:
Supplied from the Tuner/Amplifier
Dimensions:
270(W) x 122(H) x 276(D) mm
Weight:
1.9 kg

MD deck (SANYO MDG-007, OPTION)

Sampling frequency:
32 kHz, 44.1 kHz, 48 kHz
Wow/flutter:
Below measurable limits
Recording system:
Magnetic moduration over write
Input/Output:
OPTICAL DIGITAL IN/OUT: Optical
Power supply:
Supplied from the Tuner/Amplifier
Dimensions:
270(W) x 87(H) x 285(D) mm
Weight:
2.3 kg

Specifications subject to change without notice.

SANYO