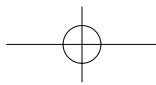
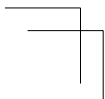
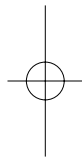
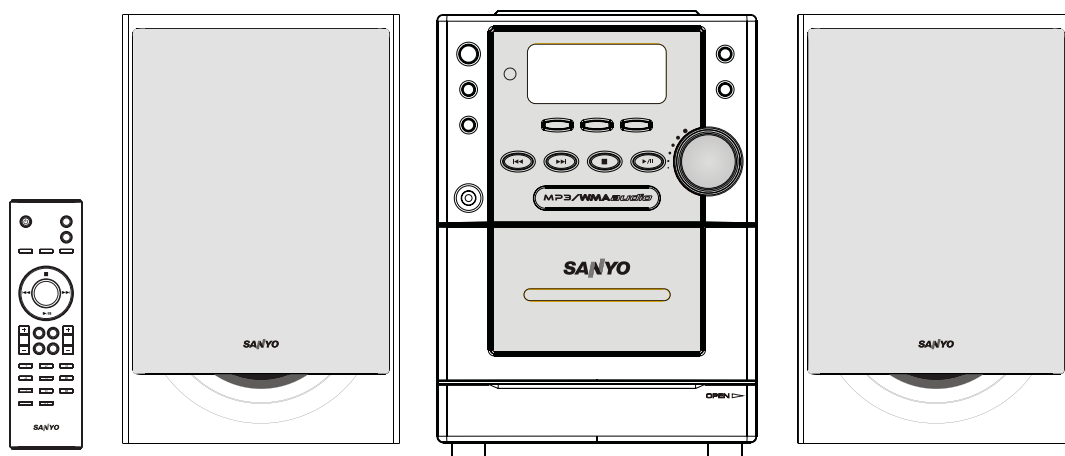
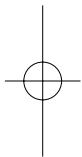


SANYO

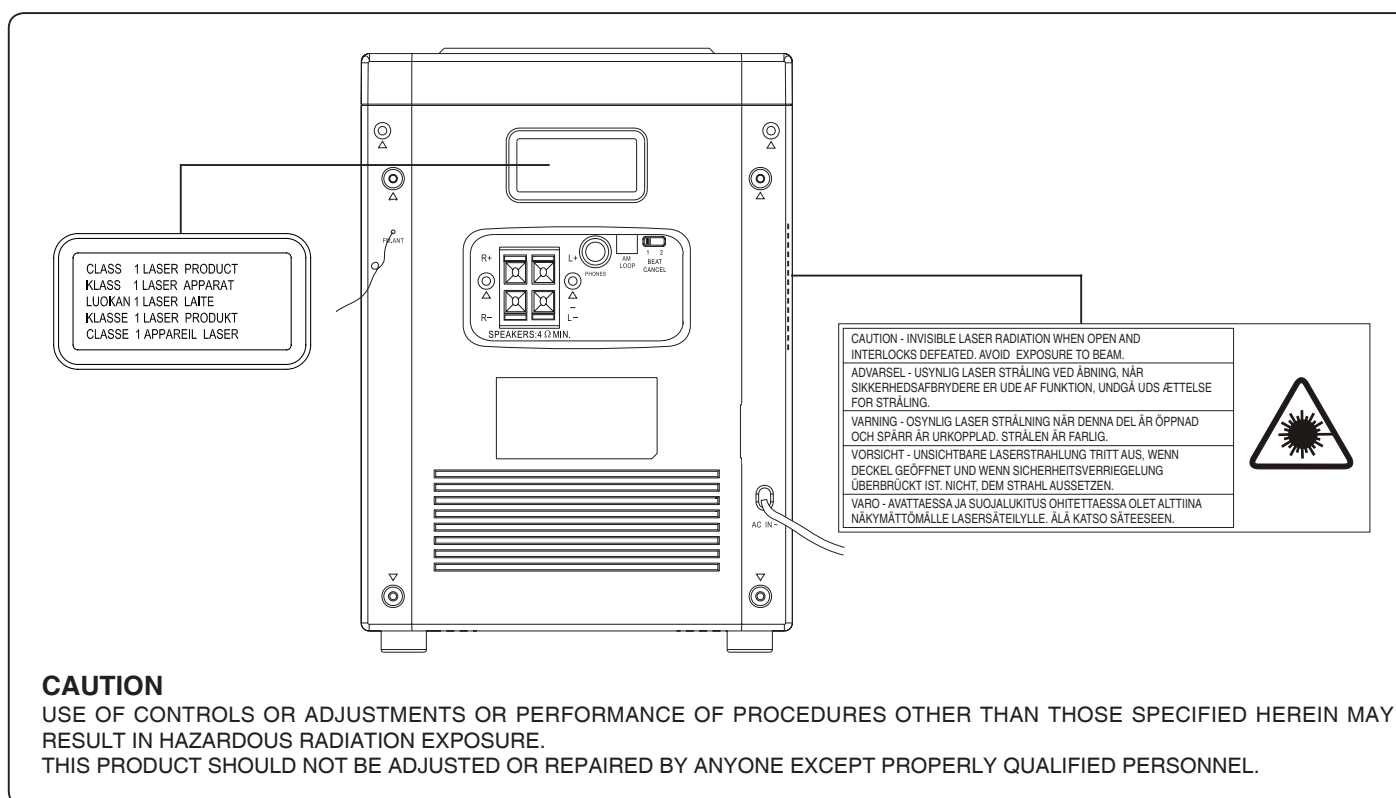
INSTRUCTION MANUAL

DC-DA1465M

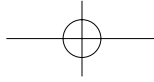
Micro Component System



PRECAUTIONS

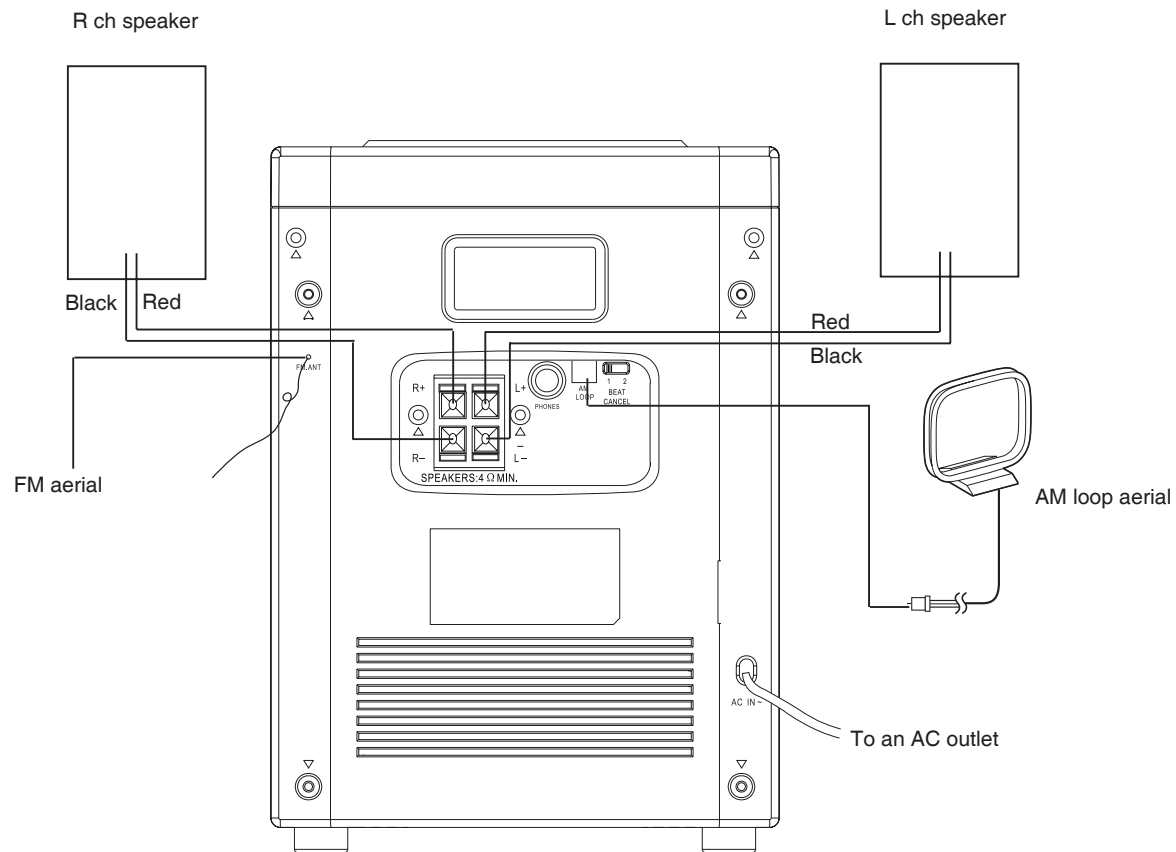


- The apparatus shall not be exposed to dripping or splashing.
- Do not use where there are extremes of temperature (below 5 °C or exceeding 35 °C) or where direct sunlight may strike it.
- Because of the CD players extremely low noise and wide dynamic range, there might be a tendency to set the volume 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, leave the unit for about 1 hour, and then proceed to operate.
- The systems speakers use powerful magnets. Do not place time pieces, credit cards, cassette tapes or video tapes, etc. near the speakers.
- Do not install this equipment in a confined space, such as a bookcase or built in cabinet.
- No objects filled with liquids, such as vases, shall be placed on the apparatus.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains etc.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- To be completely disconnect the power input, the mains plug of apparatus shall be disconnect from the mains.
- The rating label is located on the rear of cabinet.
- Attention should be drawn to the environmental aspects of battery disposal.
- Battery shall not be exposed excessive heat such as sunshine, fire or the like.
- MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Minimum distance around the apparatus for sufficient ventilation.



CONNECTIONS

BACK



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 AC power when the /ON button is set to the (standby) position.

Speakers

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

Aerial

FM aerial

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.

AM loop aerial

Assemble the loop aerial. 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.

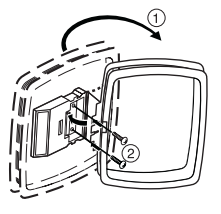
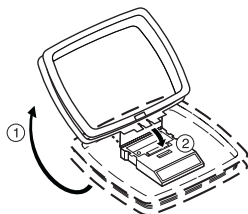
Note:

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

Headphones

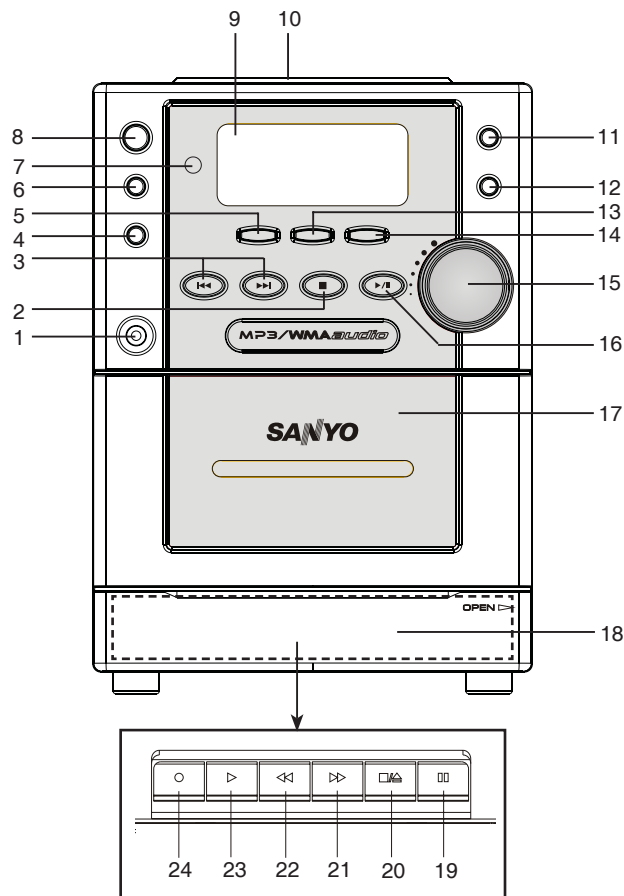
Connect stereo headphones (not supplied) to the PHONES socket for monitoring or for private listening. The speakers are automatically disconnected when headphones are connected.

- Excessive sound pressure from earphones and headphones can cause hearing loss.



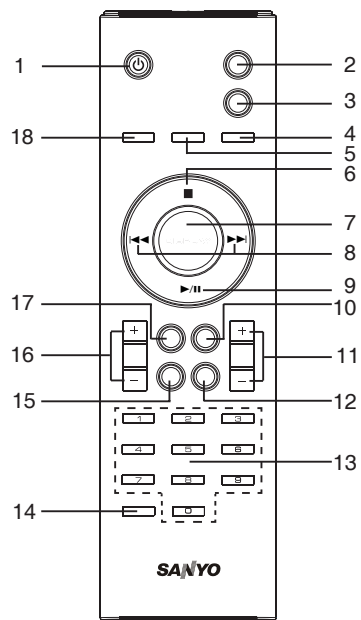
Screws (not supplied)

CONTROLS



1. Line in socket (LINE IN)
2. Stop button (STOP ■)
3. Skip/Search/File select/Tuning button (- TUN/FILE +, I◀◀, ▶▶I)
4. Band select button (BAND)
5. Folder/Channel select button (FOLDER/CHANNEL)
6. Function button (FUNCTION)
7. Remote sensor (IR)
8. Power button (⏻/ON)
9. Display
10. CD Compartment (OPEN/CLOSE ▲)
11. Bass expander button (DBBS)
12. Play mode button (PLAY MODE)
13. Program/Clock button (PROGRAM/CLOCK)
14. Timer button (TIMER)
15. Volume control (VOLUME)
16. Play/Pause button (PLAY/PAUSE ▶/||)
17. Cassette holder
18. Tape buttons cover (OPEN ▶)
19. Pause button (||)
20. Stop/Eject button (□▲)
21. Fast forward button (▶▶)
22. Rewind button (◀◀)
23. Play button (▶)
24. Record button (○)

REMOTE CONTROLLER



1. Power/Stand by button(⏻/STANDBY)
2. Mute button (MUTE)
3. Timer button (TIMER)
4. Program/Clock button (PROGRAM/CLOCK)
5. Play mode button (PLAY MODE)
6. Stop button (■)
7. Display button (DISPLAY)
8. Skip/Search/File select/Tuning button (I◀◀, ▶▶I)
9. Play/Pause button (▶/||)
10. FM mode button (FM MODE)
11. Volume button (VOLUME -, +)
12. Bass expander button (DBBS)
13. Number button (0,1~9)
14. Sleep button (SLEEP)
15. Sound mode select button (SOUND)
16. Folder/Channel select button (FOLDER/CHANNEL -, +)
17. Tuner function/Band select button (TUN/BAND)
18. Function button (FUNCTION)

Number buttons (0, 1-9)

Example:

Tuner/Audio CD

To select No. 3, press 3.

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

MP3/WMA

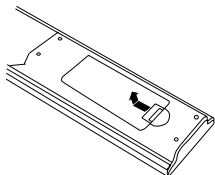
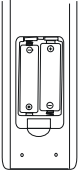
To select No. 3, press 3.

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

To select No. 126, press 1, 2, then press 6.

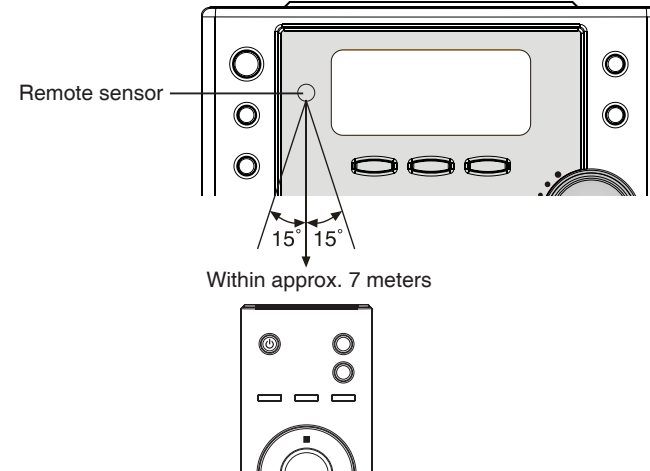
Inserting batteries

Note:
Always remove battery if the remote control is not to be used for a month or more. Battery within the unit may leak and cause damage.

- 
 - 
- Two R03/AAA batteries (not supplied)


Remote control range



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

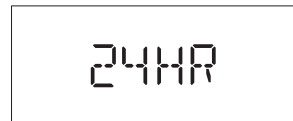


ADJUSTING THE CLOCK

When the unit is first connected to the AC power line, the display blinks "00:00" dimly.

Example: To set "6:30".
First, press the /ON button to turn the power on.

- Press the PROGRAM/CLOCK button for at least 2 seconds. "--:--" (when the first time setting) or the current time appears on the display.
- Press the PROGRAM/CLOCK button again. After "SET CLOCK" appears on the display, the time system appears. Press the  or  button to select "24HR".



- Press the PROGRAM/CLOCK button. The hours display blinks.



- Press the  or  button to set the "hours".



- Press the PROGRAM/CLOCK button. The minutes display blinks.

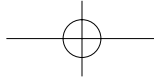


- Press the  or  button to set the "minutes".



- Press the PROGRAM/CLOCK button to complete the setting, the original function returns.

- The time can be set accurately by pressing the PROGRAM/CLOCK button when a time signal is heard.
- To display the clock during operations, press the PROGRAM/CLOCK button at least 2 seconds. After a few seconds, the original display returns.
- If a power failure occurs or the mains lead is disconnected, the clock display blinks. Reset the time again.



BEFORE OPERATION

This instruction manual explains the various functions of this unit using the remote control. The buttons on the main unit perform similar functions to similar marked buttons on the remote control.

Turning the power on and off

Press the /STANDBY button to turn on the power, the display lights up and "HELLO" appears briefly.

To turn the power off, press the /STANDBY button again. "Good bye" appears briefly, then the clock display remains lit dimly.

- When the mains lead is connected to the AC outlet, the unit will respond to commands from the remote controller.

Adjusting the volume

Press the VOLUME + or - button. The volume level appears by numbers (VOL MIN ~ VOL MAX) on the display.

Dynamic Bass Boost System

Press the DBBS button to enhance the bass sound. "BBS ON" appears on the display.

Press the button again, "BBS OFF" appears. Normal sound resumes.

Selecting the sound mode (Remote control only)

Press the SOUND button to select the sound mode matching the music to be listened to.

CLASSIC: Classical music, etc.

ROCK: Rock music, etc.

POP: Pops, etc.

JAZZ: Jazz, etc.

FLAT: Normal

Selecting the mute mode (Remote control only)

Press the MUTE button once. "MUTE" blinks on the display, the sound is mute.

Press the button again, "MUTE" disappears. Normal sound resumes.

WHAT TO DO IF ...

If the operation of the unit or display is not normal,

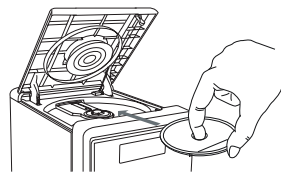
1. Press the /STANDBY button to turn off the power.
2. Turn on the power and resume the operation.

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 without an adapter.



1. Press the FUNCTION button to select "CD" function.
2. Press the CD compartment lid (OPEN/CLOSE portion) to open it, "OPEN" appears.
3. Place the disc with the label facing up on the disc turntable. (Place only one disc at a time.)



4. Press the CD compartment lid (OPEN/CLOSE portion) again to close it. "READING" blinks for several seconds, then the total number of tracks and total playing time appear.

Note:

If a badly scratched disc is loaded or if the disc is loaded with the label facing downward, "NO DISC" appears. If this occurs, load the disc correctly or replace the damaged disc.

5. Press the button. Play starts from the first track.



The current track number and elapsed playing time are displayed.

6. Press the button to end disc play.

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

Notes on handling compact discs

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

To start play from the desired track

Select the track by using the or button, then press the button.

Temporarily stopping play

Press the button, elapsed playing time blinks on the display. To resume play, press the button again.

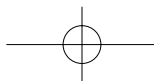
Skip play

To skip to track 6 while track 3 is playing, press the button repeatedly until "06" appears (in the track section) on the display. To skip back to track 3 while track 6 is playing, press the button repeatedly until "03" appears.

- The number buttons on the remote control can also be used for skip play. To skip to track 6 while one track is playing, press 0, then 6.

Search (forward/reverse)

If the or button is pressed during play, the player will search at high speed in the forward or reverse direction while the button is being pressed. When the button is released, normal play will continue.



Repeat / Random play

Press the PLAY MODE button repeatedly before or during play to select various play modes available. Each time the button is pressed, the play mode changes as shown below:



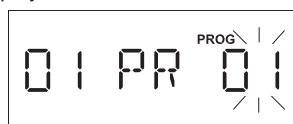
- Random play will not function during programmed play.

PROGRAMMED PLAY

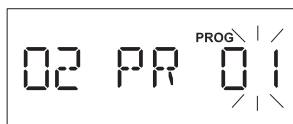
Up to 40 tracks on a disc can be programmed for play in any order.

- First, select "CD" function and load a disc that you want to programme.
- The tracks must be programmed in the stop mode.
- The same track can be programmed more than once.

1. Press the PROGRAM/CLOCK button. The program number "01" blinks on the display.



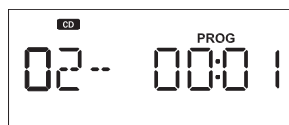
2. Select a track by using the ►► or ◀◀ button.



3. Press the PROGRAM/CLOCK button. The program number "02" blinks on the display.



4. Repeat steps 2 - 3 to programme additional tracks.
5. Press the ►/|| button to start programmed play.



When all programmed tracks have been played, the player stops automatically.

- The programme contents are retained in memory.
- Any attempt to programme more than 40 tracks will result in "FULL" being displayed and discontinuation of the programming.
- To cancel programmed play, press the ■ button twice during playing, "PROG CLEAR" appears.

Checking the programme

Each time the PROGRAM/CLOCK 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 PROGRAM/CLOCK button repeatedly until the programme number blinks on the display.
2. Select a track as explained above.
3. Press the PROGRAM/CLOCK button.

To change a track:

1. In the stop mode, press the PROGRAM/CLOCK button repeatedly until the track number to be replaced is displayed.
2. Select a track as explained above.
3. Press the PROGRAM/CLOCK button.

Note:

Programmed details cannot be partially deleted or inserted.

MP3/WMA CD OPERATION

This unit can play the CD-R/RW that has recorded music data, MP3 or WMA(Window Media Audio) files. Before playing MP3/WMA CD, please read the following.

MP3/WMA CD information

- MP3/WMA CD is the disc that standardized by ISO9660, its file name must have the extension letters, ".MP3" or ".mp3"/ ".WMA" or ".wma".
- Standard, sampling frequency, and the bit rate:
 - MP3 files:**
 - MPEG-1 Audio
 - 32 kHz, 44.1 kHz, 48 kHz
 - 32 kbps ~ 320 kbps (constant bit rate or variable bit rate)
 - WMA files:**
 - WMA version 7, 8 and 9
 - 32 kHz, 48 kbps ~ 64 kbps
 - 44.1 kHz, 48 kbps ~ 192 kbps
 - 48 kHz, 128 kbps ~ 192 kbps
 - WMA9 professional files, WMA9 lossless files or DRM (copyright protection) files cannot be played.

- In this model, recommend recording setting for a high-quality sound is 44.1 kHz of sampling frequency and 128 kbps of constant bit rate. If files are recorded in other bit rate (for example: 320kbps) or in variable bit rate, track-jump may sometimes happen according to recording conditions.
- The directory and file names of the MP3/WMA CD must be corresponded to the ISO standardized files.
- Single-session disc can be played. As for multi-session disc, only the first session can be played.
- This unit can recognize up to 99 folders or 999 files per disc.
- This unit can recognize up to 8 directory trees per disc.
- Some MP3/WMA CD may not be played in the recorded order.
- Music section in "CD Extra" can be played.

Notes on disc writing method

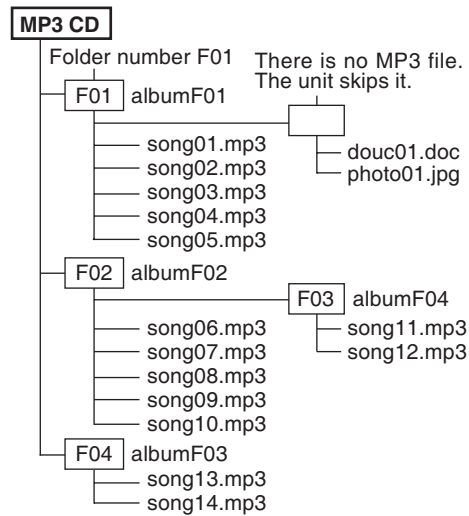
There are three basic methods for writing to a CD: "Track-at-Once", "Disc-at-once", and "Packet Writing". Music files recorded by "Track-at-Once" or "Disc-at-Once" can be played on the unit. (Note: The unit cannot play the music files added with "Trackat-Once".) Music files recorded by "Packet Writing" cannot be played.

Limitations on the display

Available letters for display are the following: capital alphabets of A through Z, numbers of 0 through 9, and _ (underline).

MP3 CD directory sample:

Play order: song01 → song02 → ... → song14



Note:

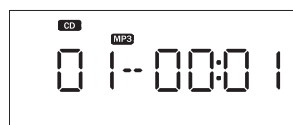
- Some MP3/WMA CDs cannot be played depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3 files cannot be played.
- Do not make an empty folder. It may not work correctly.

Basic playback

1. Load the MP3/WMA CD.
"READING" blinks, then the total folder number and total track number appear on the display.
Example: For an MP3 and WMA mixed CD.



2. Press the FOLDER/CHANNEL + or - button to select the desired folder.
3. Press the ►► or ◀◀ button to select the desired track.
4. Press the ►/|| button to start play.



Note:

For the MP3 and WMA mixed CD, both "WMA" and "MP3" remain on the display except playing mode.

If current playing track is MP3 file, only "MP3" appears.

If current playing track is WMA file, only "WMA" appears.

Display selection

The ID3-Tag is an information field for MP3/WMA. Album name, music title and artist name can be stored into the tag. This unit shows this information.

Press the DISPLAY button on the remote control during play.

Each time the button is pressed, the display changes and scrolls over on the display in the following sequence:

ALBUM(album name) → ARTIST(artist name) → TITLE(music title)...

- After the information scrolls over, the playing display returns.

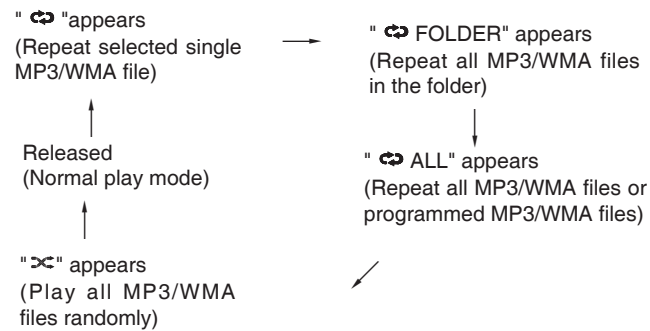
Folder/File selection

1. In stop mode or during play, press the FOLDER/CHANNEL + or - button to select the desired folder.
2. Press the ►► or ◀◀ button to select desired track. Then press the ►/|| button to start play.
In playing mode, play starts automatically.

Repeat / Random play

Press the PLAY MODE button repeatedly before or during play to select various play modes available.

Each time the button is pressed, the play mode changes as shown below:



- Random play will not function during programmed play.

PROGRAMMED PLAY

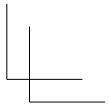
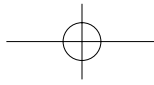
1. In stop mode, press the PROGRAM/CLOCK button.



2. Press the FOLDER/CHANNEL + or - button to select desired folder.
 3. Press the ◀◀ or ►► button to select desired file.
 4. Press the PROGRAM/CLOCK button.
 5. Repeat 2 ~ 4 steps to programme additional tracks.
 6. Press the ►/|| button to start programmed play.
 7. Press the ■ button at any time to stop the programmed play.
- To cancel programmed play, press the ■ button twice during play.

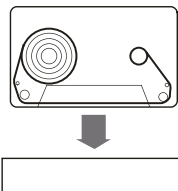
Note:

Other various playback operations, please refer to the descriptions in CD PLAY (page 6).



LISTENING TO TAPE

1. Press the FUNCTION button to select "TAPE" function. "TAPE" appears.
2. Pull the OPEN > portion to open the cassette button cover.
3. Press the □/△ button to open the cassette holder.
4. Load the cassette. After loading the cassette, push the cassette holder back into position.



5. Press the > button to begin play.
6. Press the □/△ button to stop play at any time. Press it again to remove the cassette.
When the end of the tape has been reached, automatic stop will be activated.

Note:

- Use the normal tape (TYPE 1).
- Endless tapes cannot be used.
- Do not use C-100 (or longer) tapes. They may jam in the mechanism.

Pause

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

Fast forward and rewind

Press the ⏩ or ⏪ button. When the desired location has been reached, press the □/△ button.

Automatic stop system

At the end of the tape while recording or playing back, the cassette deck stops automatically and the buttons are released.

This system does not work in fast forward and rewind operation. Be sure to press the □/△ button when the end of the tape has been reached.

Example (When using C-60 tape):

Press the □/△ button after approximately 2 minutes have elapsed under fast forward and rewind operation.

LISTENING TO THE RADIO

Automatic/Manual tuning

1. Press the FUNCTION button to select "TUNER" function.
2. Press the TUN/BAND button to select FM or AM. The radio frequency appears on the display.
3. **Automatic tuning**
Press the ◀ or ▶ button for at least 1 second to tune in a station. The unit will scan down or up the band and receive the next receivable station. Press the button again to continue.

Manual tuning

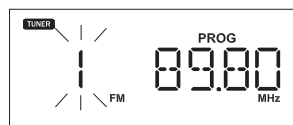
Press the ◀ or ▶ button briefly until the desired frequency is displayed.



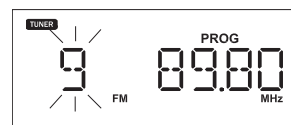
To preset stations

Up to 30 stations for FM band, 10 stations for AM band can be preset.

1. Tune in the station to be preset as described above.
2. Press the PROGRAM/CLOCK button. The preset channel number blinks on the display.



3. Press the FOLDER/CHANNEL + or - button to select a channel be preset.



4. Press the PROGRAM/CLOCK button
- In this example, "89.80 MHz" FM station is preset on FM channel 9.
5. Repeat 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 TUN/BAND button to select FM or AM.
2. Press the FOLDER/CHANNEL + or - button to select the desired channel number.
- The number buttons on the remote control can also be used.

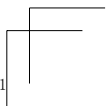
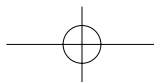
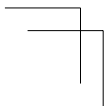
To receive FM stereo broadcasts (Remote control only)

"(ST)" appears when an FM stereo broadcast is received. If not, press the FM MODE button to turn the "(ST)" indication on.

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

LISTENING TO OTHER SOURCES

1. Press the FUNCTION button to select "AUX".
2. Follow the instructions supplied with the video/auxiliary equipment.



RECORDING

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.

Recording discs (Synchronous recording)

1. Load a blank cassette.
2. Select "CD" function.
3. Load the disc to be recorded.
 - Select the track number if required.
 - For programmed recording, programme the material in advance (as described under "Programmed play").
4. Press the \circ button. The \triangleright button is engaged simultaneously and CD recording starts.
 - When you want to record music as you listen, press the \circ button. Recording starts automatically from the beginning of the track.
5. Press the \square/\triangle button to stop recording.

When the end of the tape is reached, the CD player and deck stop automatically.

Recording from the tuner

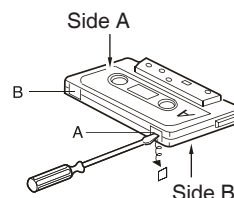
1. Load a blank cassette.
2. Tune in the radio button to be recorded.
3. Press the \circ button to start recording.
4. Press the \square/\triangle button to stop recording.

When beat is heard

Beat (a high-pitched noise) may sometimes be heard during the recording of radio broadcasts. If this occurs, set the BEAT CANCEL switch (the rear of the unit) to 1 or 2 position the reduces the level of the beat noise.

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.

TIMER OPERATION

Wake-up timer

Set the on and off time, the unit will turn on and start the selected function automatically at the on time, and will turn off when the off time arrives.

The timer will function every day unless it is released.

Preparations

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

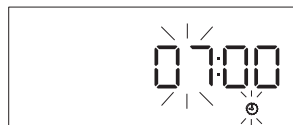
- Prepare the source to be used.
- Adjust the tuner or band of radio if choosing "TUNER".
- Place the disc in advance if choosing "CD".

For example: Waking up at 7:30 every day and listening to the CD until 8:15.

1. Turn on the power and press the TIMER button. "SELECT SOURCES" scrolls on the display.
2. Press the FUNCTION button to select "CD".



3. Press the TIMER button. Volume level blinks on the display. Press the VOLUME + or - button to select the volume.
4. Press the TIMER button. "SET ON TIMER" scrolls on the display.
5. Press the TIMER button again. The hour section of the preset on-time blinks on the display.
6. Press the $\triangleright/\triangleleft$ or \ll/\lll button to set the hours.



7. Press the TIMER button. The minute section blinks on the display.
8. Press the $\triangleright/\triangleleft$ or \ll/\lll button to set the minutes.



9. Press the TIMER button. "SET OFF TIMER" scrolls on the display.
10. Repeat above steps 5-8 to set off time.
11. Press the TIMER button to complete the setting. Original function returns. Then turn off the power. The clock time appears and \odot remains lit.

Note:

- The preset function starts when the timer on-time arrives. The volume increases gradually to the preset level.
- When the timer off-time arrives, the power turns off and the timer is set to the standby mode. Timer operation repeats everyday.

To release the timer

In power on mode, press the TIMER button once, \odot disappears. Or in power off mode, press the \odot /STANDBY button to turn on the unit. \odot disappears.

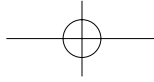
Sleep timer (Remote control only)

The sleep timer automatically switches off the power after a preset time has elapsed. There are 9 time periods available: 90, 80, 70, 60, 50, 40, 30, 20, and 10 minutes.

Press the SLEEP button repeatedly to select the desired sleep time. After several seconds, the original display returns, " \odot^z " remains lit.

To release the sleep timer while in operation

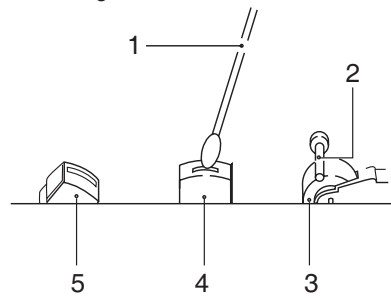
Press the SLEEP button repeatedly to select "OFF", " \odot^z " disappears from the display. The timer is also released if the power is switched off.



MAINTENANCE

Cleaning the tape heads

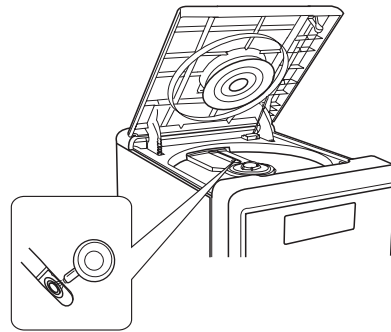
To ensure continued high performance, use cotton swab to clean the heads, pinch roller and capstan of the decks after about every 10 hours of use. If the dirt persists, soak the swab in a little methylated spirit or head cleaning fluid and then clean.



1. Cotton swab
2. Capstan
3. Pinch roller
- 4, 5. Heads

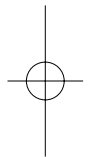
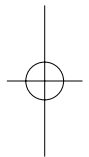
Cleaning the CD player lens

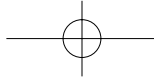
The lens should never be touched. If dust is on the lens, blow it off using a camera lens blower. (Consult your dealer.)



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.





SPECIFICATION

Tuner

Reception frequency:
FM: 87.5 - 108 MHz
AM: 522 - 1611 kHz

CD player

Type:
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
Wow/flutter:
Below measurable limits

Cassette deck

Track system:
4-track, 2-channel stereo
Erasing system:
Magnet erase
Tape speed:
4.7 cm/sec.
Frequency response:
80 - 12,000 Hz
Fast forward/rewind time:
Approx. 110 sec. (C-60)

General

Output power :
4 W/ch (AC max.)
Inputs:
LINE IN: 500 mV/ 50 K Ω
Outputs
SPEAKERS: 4 ohms
PHONES: 8 - 32 ohms
Power requirement:
AC 230 - 240V, 50 Hz
Power consumption:
27 W
Dimensions:
160(W) x 225(H) x 180(D) mm
Weight:
Approx. 2.5 kg

Speaker systems

Type:
Full range bass reflex
Unit used:
9 cm cone type
Maximum power-handling capacity:
6W
Nominal impedance:
4 ohms
Dimensions:
140(W) x 225(H) x 180(D) mm
Weight:
Approx. 1.3 kg (per speaker)

Specifications subject to change without notice.

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