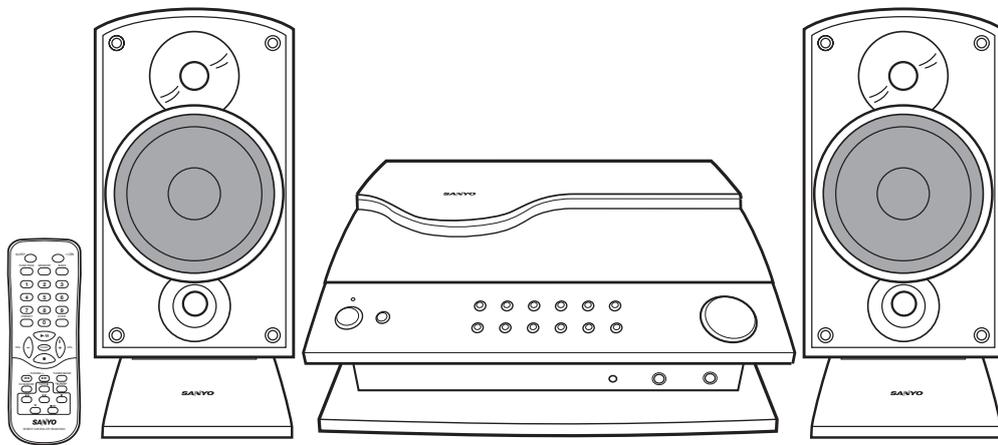




INSTRUCTION MANUAL

DC-MCR300

Micro Component System



PRECAUTIONS

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 UDSÆTTELSE FOR STRÅLING.

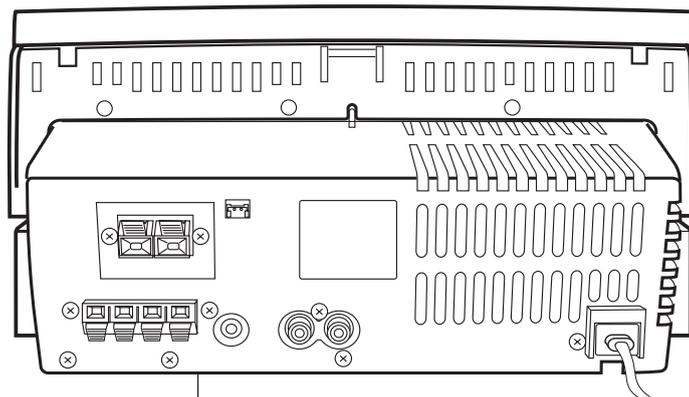
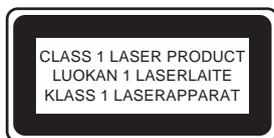
VARNING – OSYNLIG LASER STRÅLNING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.

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.

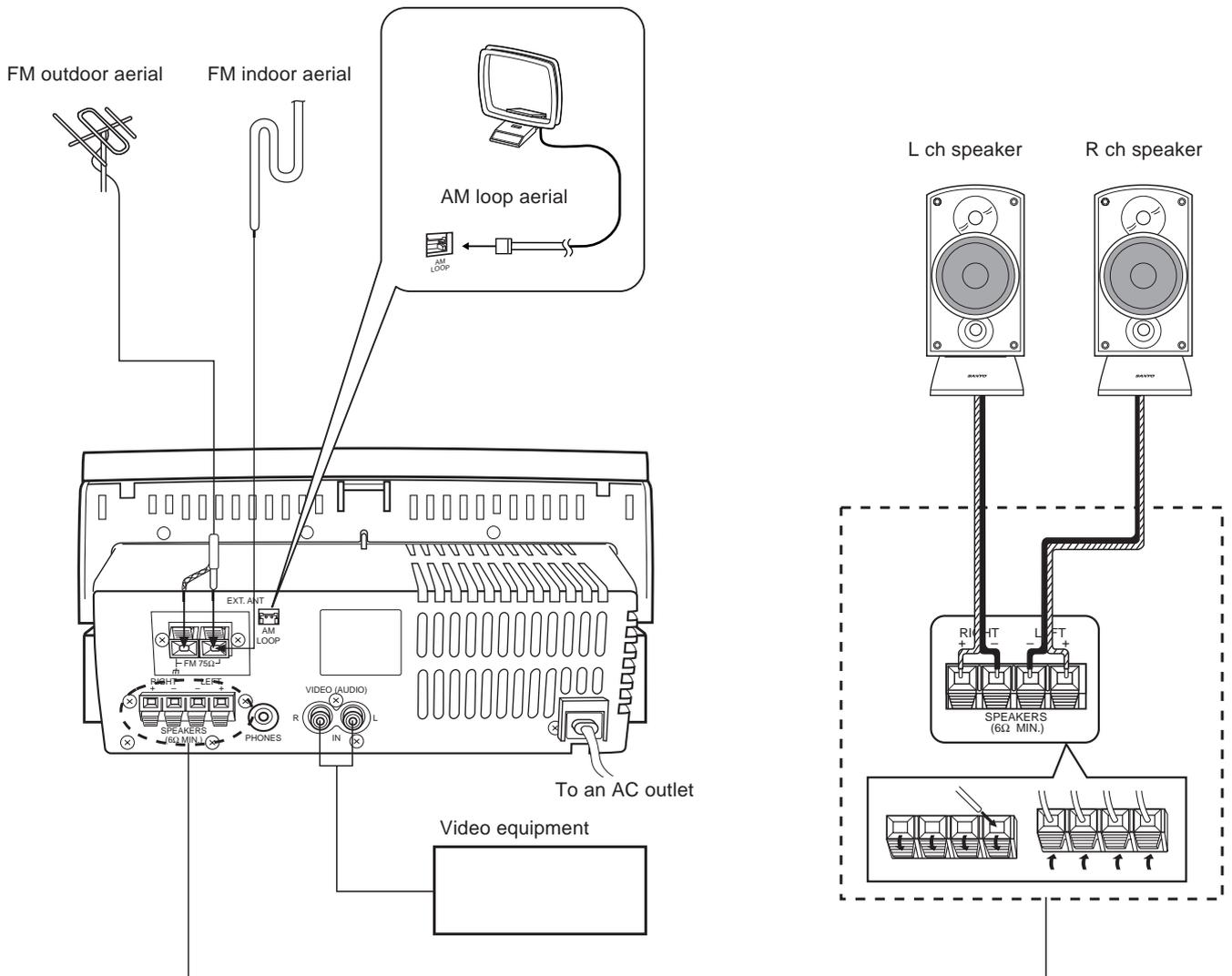


CAUTION – USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OPERATING INSTRUCTIONS MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. THIS PRODUCT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED PERSONNEL.



- 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 player's extremely low noise and wide dynamic range, there might be a tendency to set the volume on the amplifier unnecessarily high. Doing so may produce an excessively large output from the amplifier which could damage your speakers.
- Sudden changes in the ambient temperature may cause condensation to form on the optical lens inside the unit. If this happens, take out the disc, leave the unit for about 1 hour, and then proceed to operate.
- 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.
- No object filled with liquids, such as vase, shall be placed on the apparatus.

CONNECTIONS



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.

Speakers

Connect the connector of the left speaker lead to the “L” SPEAKERS socket and the connector of the right speaker lead to the “R” socket. If you have difficulty inserting the speaker lead connector, turn it over and reinsert it. Connect the black speaker wire to the black terminal – and the other wire to the red terminal +.

Aerials

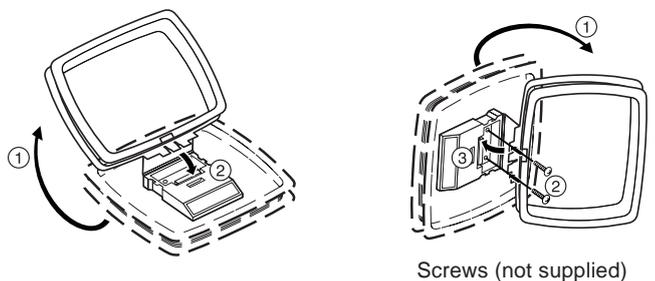
FM aerial

The FM indoor aerial is sufficient to receive most local FM broadcasts and should be connected to the FM 75Ω 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 simple indoor aerial. 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.

Note:

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

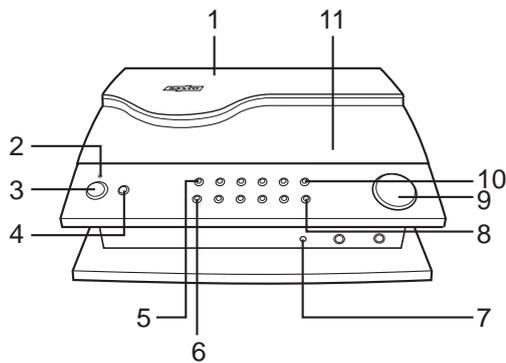
Headphones

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

Video/Auxiliary equipment

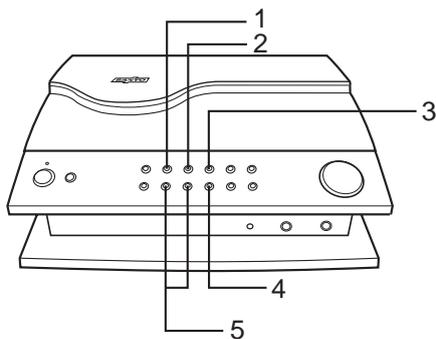
Connect audio leads (not supplied) to the VIDEO (AUDIO) sockets.

CONTROLS



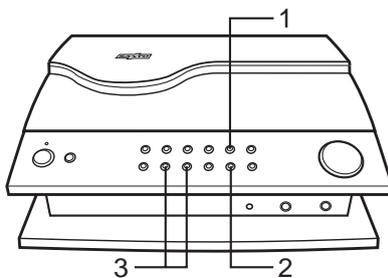
Amplifier/Common section

1. Top compartment door
2. Standby indicator (STANDBY)
3. Power button (⏻/ON)
4. Top compartment Open/Close button (DOOR OPEN/CLOSE)
5. Clock/Timer button (CLOCK/TIMER)
6. Memory button (MEMORY)
7. Remote sensor (IR)
8. Function button (FUNCTION)
9. Volume button (VOLUME)
10. Sound preset (SOUND PRESET)
11. Display



CD player/Tuner

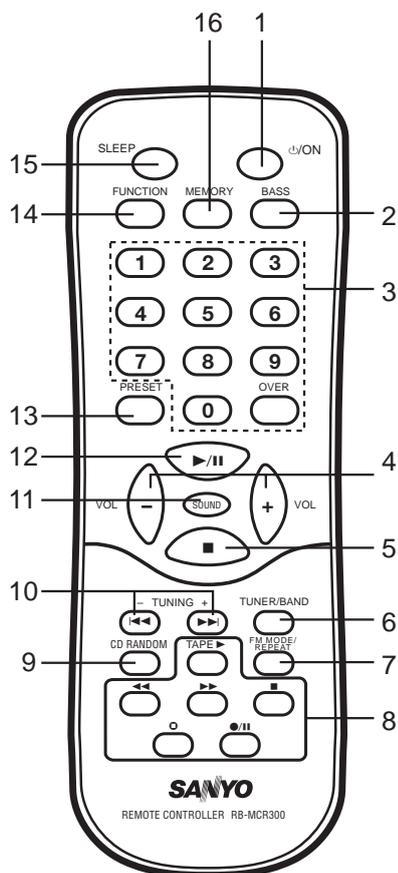
1. Play/Pause button (CD ▶/⏸)
2. Stop button (■)
3. CD repeat button (CD REPEAT)
4. FM mode button (FM MODE)
5. Skip/Search/Tuning buttons (◀◀, - TUNING +, ▶▶)



Cassette deck

1. Tape function/Forward play button (TAPE ▶)
2. Record/Record pause button (●/⏸)
3. Rewind/Fast forward buttons (◀◀, ▶▶)

REMOTE CONTROL



1. Power button (⏻/ON)
2. Bass expander button (BASS)
3. Number buttons (1-9, 0, OVER)
4. Volume buttons (VOL -, +)
5. Stop button (■)
6. Tuner function/BAND select button (TUNER/BAND)
7. FM MODE/Repeat button (FM MODE/REPEAT)
8. Tape deck controls
 TAPES ► : Forward play button
 ►► : Fast forward button
 ◀◀ : Rewind button
 ■ : Stop button
 ○ : Record muting button
 ●/|| : Record/Record pause button
9. Random play button (CD RANDOM)
10. Skip/Search/Tuning buttons (◀◀, - TUNING +, ►►)
11. Sound preset button (SOUND)
12. CD Play/Pause button (►/||)
13. Preset button (PRESET)
14. Function button (FUNCTION)
15. Sleep button (SLEEP)
16. Memory button (MEMORY)

Number buttons (1-9, 0)

These buttons are used to select the track numbers on a disc or preset radio stations.

If the function is "CD", the buttons select the track numbers on a disc. If the function is "TUNER", the buttons select preset radio stations. With any other function, the buttons will not function.

Example:

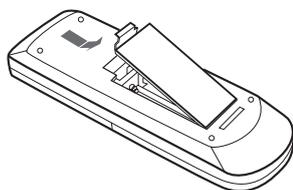
To select No. 3, press 3.

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

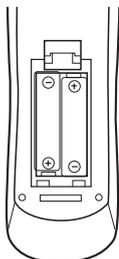
To select No. 125, press OVER, 1, 2, 5.

Inserting batteries

1.



2.

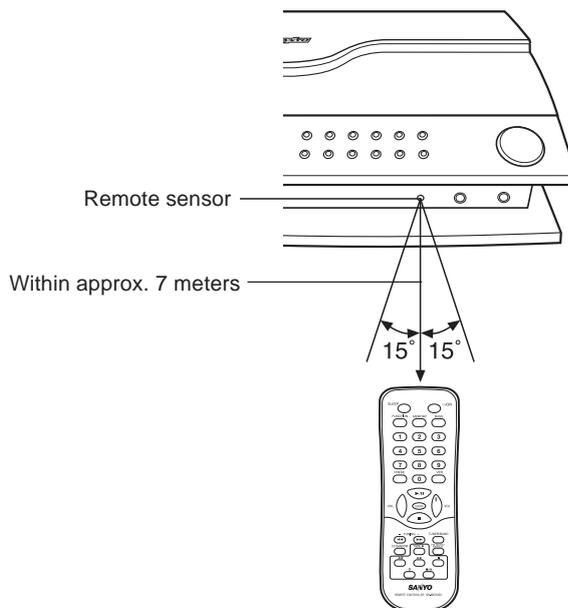


Two "AAA" batteries
(not supplied)

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

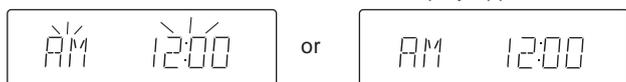


The buttons on the remote control perform similar functions to similarly marked buttons on the front panel.

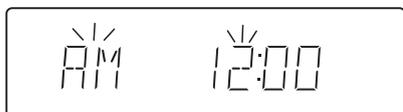
ADJUSTING THE CLOCK (Main unit only)

When the unit is first connected to the AC power line, "CD/TU" blinks. To cancel this mode, turn the power on or press the CLOCK/TIMER button.

Example: To set "PM 6:30", Press the CLOCK/TIMER button, the clock display appears.

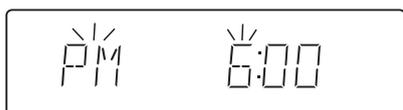


1. Press the MEMORY button.

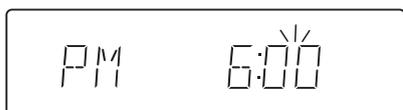


The hours display blinks.

2. Turn the VOLUME control to set the "hours".

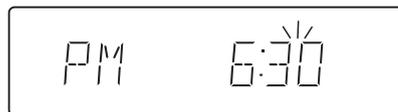


3. Press the MEMORY button.

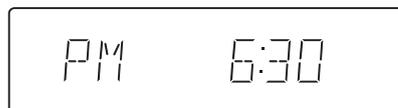


The minutes display blinks.

4. Turn the VOLUME control to set the "minutes".



5. Press the MEMORY button. The clock starts.



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

- To display the clock during operation, press the CLOCK/TIMER button briefly. After a few seconds, the original display returns.
- If a power failure occurs or the mains lead is disconnected, when re-connect the power, the clock display blinks. Reset the time again.

Changing the clock to the 24-hour display (Using the main unit)

1. Press the Δ /ON button to turn the power off and present time displays.
2. While clock is displaying, press the \blacksquare button and hold it, then press the FUNCTION button.

Example: PM 1:00 \rightarrow 13:00

To return the original setting, repeat steps above.

BEFORE OPERATION

Turning the power on and off

Press the Δ /ON button, the STANDBY indicator goes out. To turn the power off, press the Δ /ON button again. The STANDBY indicator lights.

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

Direct start function

If the following buttons are pressed when the unit is in standby, the unit turns on automatically and the selected function is set.

CD section	CD \blacktriangleright /II
Cassette	TAPE \blacktriangleright
Remote control	\blacktriangleright /II, TAPE \blacktriangleright , TUNER/BAND

Selecting the function

Press the FUNCTION button to select the desired function. Each time the button is pressed, the display changes as follows:

READING (CD) \rightarrow FM \rightarrow AM \rightarrow TAPE \rightarrow VIDEO \rightarrow
 READING (CD) \rightarrow ...

The function is automatically selected when CD play or tape playback is started or when the TUNER/BAND button on the remote control has been pressed (except during recording).

- When the function selection is changed, CD play or tape playback is automatically stopped.

Adjusting the volume

Turn the VOLUME control, or press the VOLUME + or - button on the remote control. The volume level appears by numbers (VOL MIN ~ VOL MAX) on the display.

Bass expander system (Using Remote only)

Press the BASS button on the remote control to enhance the bass sound "BASS ON" appears about 3 seconds then disappears. "BASS" remains light.

Press the BASS button again, "BASS OFF" appears briefly and BASS disappears.

Selecting the sound mode

Press the SOUND PRESET button (or SOUND button on the remote control) to select the sound mode matching the music to be listened to.

POP: Pops, etc.
 CLASSIC: Classical music, etc.
 ROCK: Rock music, etc.
 JAZZ: Jazz, etc.

WHAT TO DO IF ...

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

1. Disconnect the mains lead.
2. Re-connect the power, the unit is in standby.
3. While pressing the SOUND PRESET button on the main unit, press MEMORY button at the same time within 5 seconds.

CD PLAY

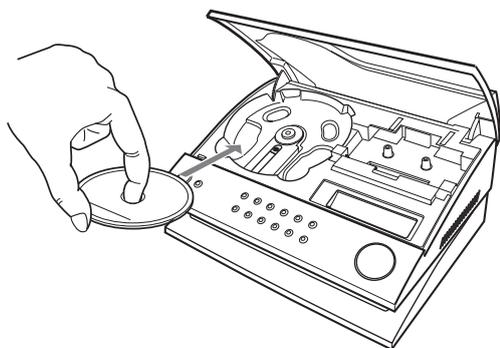
Use compact discs bearing the symbol shown. In addition to conventional 12 cm CDs, this system can be used to play 8 cm CDs without an adapter.



- This unit can play back the CD-R/RW that have recorded music data as well. However, some CD-R/RWs can not be played back depending on the recording conditions.
- The CD-R/RW can't be recorded in this unit.

Preparations

1. Press the FUNCTION button on the remote control to select "CD" function.
2. Press the DOOR OPEN/CLOSE button on the main unit. "OPEN" appears and the top compartment opens.
3. Place the disc with the label facing up on the disc tray. (Place only one disc at a time.)



4. Press the DOOR OPEN/CLOSE button again, "CLOSE" display briefly. The top compartment is closed. "READING" appears, then the total number of tracks and total playing time on the disc appear on the display.

Starting play

Normal playback

1. Press the ►/|| button. Play starts from the first track.
 - When using the main unit, use the CD ►/|| button.

Example:



Track number Elapsed playing time

Note:

If "NO DISC" appears, load the disc.

- If the disc is loaded with the label side downward, or if a badly scratched disc is loaded, "NO DISC" or "UNDISC" appears on the display. If this occurs, load the disc correctly or replace the disc.

2. Press the ■ button to end disc play.
 - When using the main unit, use the ■ button.When the last track has been played, the player stops automatically.

Temporarily stopping play

Press the ►/|| button. "⏸" blinks and elapsed playing time on the display. To resume play, press the button again.

- When using the main unit, use the CD ►/|| button.

Track skip

Skipping forward

Press the ►| button briefly during play to skip to the next track. A track is skipped each time the button is pressed.

Skipping back

Press the |◀ button briefly during play to skip back to the beginning of the track currently play. Press the button again immediately to skip back to the beginning of the previous track.

Repeat play

Press the REPEAT button (or the CD REPEAT button on the unit) before or during play. The player will play all the tracks or all the programmed tracks repeatedly. "REPEAT" appears on the display. To cancel repeat play, press the button again. "REPEAT" disappears.

Random play (Remote control only)

Press the CD RANDOM button before or during play. The player will automatically select and play track on the disc at random. Press the ■ button to stop playing, then press the CD RANDOM button to cancel random play. "RANDOM" disappears.

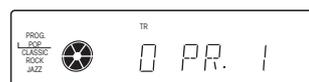
- Random play will not function during programme play.

Programmed play

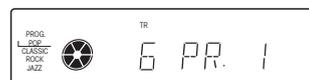
Up to 40 tracks on a disc can be programmed for play in any order.

- 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 MEMORY button.



2. Press the number button(s) (or ►| or |◀ button) to select a track.



3. Press the MEMORY button.



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

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

- The programme contents are retained in memory.

Note:

- 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.

Checking the programme

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

Changing a programme

To add a new track to a programme:

1. In the stop mode, press the MEMORY button repeatedly until "0" appears on the track number section.
2. Select a track as explained above, then 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 track as explained above, then press the MEMORY button.

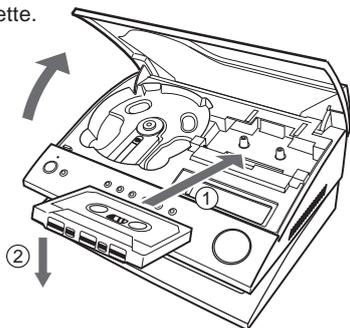
Note:

Programmed details cannot be partially deleted or inserted.

LISTENING TO TAPES

If a cassette is loaded, you can turn the unit on and begin play immediately by pressing the TAPE ► button.

1. Press the FUNCTION button on the remote control to select "TAPE" function.
2. Press the the DOOR OPEN/CLOSE button to open the top compartment.
3. Load the cassette.



After loading the cassette, close the top compartment.

4. Press the TAPE ► button to begin playback.
5. Press the ■ button to stop playback at any time. 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.

Fast forward and rewind

Press the ►► (or ►► on the unit), "FF" appears and "►" blinks. Press the ◀◀ button (or ◀◀ on the unit), "REW" appears and "◀" blinks. When the desired location has been reached, press the ■ button.

Pause

Press ●/|| button to temporarily stop playback or recording. Press it again to resume operation.

LISTENING TO THE RADIO

Before use

When the unit is shipped from the factory, its AM frequency band is set as "522 - 1710 kHz (in 9 kHz steps)".

If your local AM broadcast system is organized in 10 kHz steps, change the frequency band to "520 - 1710 kHz (in 10 kHz steps)" as follows.

1. Press FUNCTION button to the main unit to select "AM".
2. While pressing the ■ button on the main unit, press the DOOR OPEN/CLOSE button. The frequency band will be changed.

Note:

To return the original setting, repeat steps above.

Automatic/Manual tuning

1. Press the FUNCTION button to select FM or AM. The radio frequency appears on the display.
 - When using the remote control, use the TUNER/BAND button.

Automatic tuning

Press the TUNING – or TUNING + button for at least 1 second to tune in a station. The unit will scan up or down the band and receive the next receivable station. Press the button again to continue.

- When using the remote control, use the + or – TUNING button.

Manual tuning

Press the TUNING – or TUNING + button briefly until the desired frequency is displayed.



To preset stations

Up to 20 stations for FM band, 20 stations for AM band can be preset.

1. Tune in the station to be preset as described above.
2. Press the MEMORY button.



3. While "PROG." is blinking, press the PRESET button on the remote control to select the channel to be preset.



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

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

Listening to preset stations (Remote control only)

1. Press the FUNCTION button to select FM or AM.
2. Press the PRESET button on the remote control to select the desired channel number.
 - The number button(s) on the remote control can also be used.

To receive FM stereo broadcasts

"ST" appears when an FM stereo broadcast is received under stereo receiving mode.

- 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.

When beat interference is heard (Using the main unit)

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

While the ■ button is being pressed, press the ◀◀ button to select "DC-1" or "DC-2". Select the setting that gives the best result.

LISTENING TO OTHER SOURCES

1. Press the FUNCTION button on the remote control to select "VIDEO".
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. Press the FUNCTION button on the remote control to select "TAPE".
2. Load a blank cassette.
3. Select "CD" function.
4. 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").
5. Press the ●/|| button. The deck enters the recording pause mode and "REC" appears, "▶" blinks.
6. Press the TAPE ▶ button. Recording starts.
7. Press the ■ button to stop recording. The CD player enters automatically pause mode.

Recording from the tuner or other sources

1. Tune in the radio station to be recorded or play other sources.
2. Press the ●/|| button.
3. Press the TAPE ▶ button. Recording starts.
4. Press the ■ button to stop recording.

When beat interference is heard (Using the main unit)

A high-pitched noise called "beat" is sometimes heard during the recording of radio broadcasts. If this occurs. While pressing the ■ button, press the MEMORY button to select "BC-A" or "BC-B". Select the setting that gives the best results.

Automatic record muting (Remote control only)

Undesirable parts of a programme can be omitted while recording tuner. When recording "CD" only a 5-second unrecorded blank space is created.

Press the ○ button once while recording. "REC" blinks and a 5-second unrecorded blank space is created, then the deck enters the recording pause mode. "REC" remains lit and "▶" blinks on the display.

- To add another 5-second blank space, press the ○ button again.
- To resume recording, press the TAPE ▶ button.

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 (Fig. 9).

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

Using the timer (Main unit only)

Set the on and off times, and function to be used. Operation will start with the selected function at the on time. The power will be switched off at the off time. The timer will function every day unless it is released.

Preparation

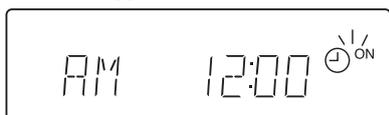
Note:
Make absolutely sure that the clock is set to the correct time before setting the timer.

- 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 will start in the forward direction.
- Adjust the volume level as desired.

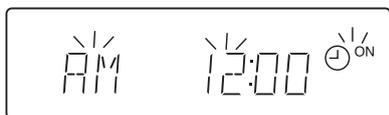
Example:

Waking up AM 7:30 every day and listening to tape until AM 8:15.

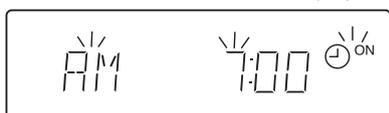
1. Press the CLOCK/TIMER button. The present time appears.
2. Press the CLOCK/TIMER button again. "⌚ ON" blinks. The previous timer ON time appears.



3. Press the MEMORY button, "⌚ ON" and "hour" blink.



4. Turn the VOLUME control to set "hour" display.



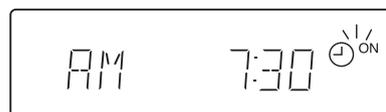
5. Press the MEMORY button. "⌚ ON" and "minute" blink.



6. Turn the VOLUME control to set "minutes" display.

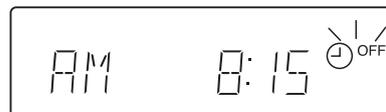


7. Press the MEMORY button. This completes the setting of the ON time. "⌚ ON" remains blink.



8. Press the CLOCK/TIMER button while "⌚ ON" is blinking. "⌚ OFF" blinks. The previous Timer OFF time appears.

9. Repeat steps 3-7 above. This completes the setting of the OFF time.



10. Press the CLOCK/TIMER button. "⌚" remains blink. Original preset function appears.

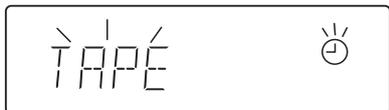


Original preset function

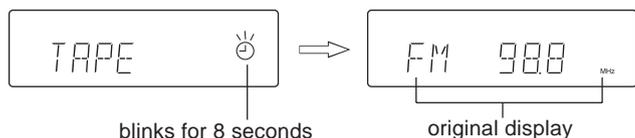
11. Press the MEMORY button. Preset function and “⌚” blink.



12. Turn the VOLUME control to set the desired function. Functions for selection appears: CD → TUNER → TAPE → VIDEO → REC TU
In this example, “TAPE” is selected.



13. Press the MEMORY button, desired function remains lit. “⌚” keep blinks for about 8 seconds. Then the display comes back to the original.



When the timer ON time arrives, the power is turned on automatically and the unit starts playing with the preset function selected.

- “⌚” remains lit while timer operation is engaged,
- When the timer OFF time arrives, the power turns off and the timer is set to the standby mode. Timer operation repeats this cycle every day.

To check the timer settings

Turn on the power, then press the CLOCK/TIMER button repeatedly. The timer settings are displayed in the following order.

- Present time.
- Timer on time.
- Timer off time.
- Original preset function.
- Original display returns.

To change the timer settings

1. Press the CLOCK/TIMER button to select the setting to be changed.
2. Press the MEMORY button so that the display blinks.
3. Change the setting as explained above.

To release the timer

Press the CLOCK/TIMER button for at least 1 second, “⌚” display disappears.

To set the timer again with the same settings

1. Press the CLOCK/TIMER button for at least 1 second to display “⌚”.
2. Press the ⏻/ON button to switch off the power.

Note:

The timer operation is released if a power failure occurs.

Using the 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 and hold down the SLEEP button to select the desired sleep time. “SLEEP” blinks and the selected time appears on the display. After several seconds, the original display returns, “SLEEP” remains lit.

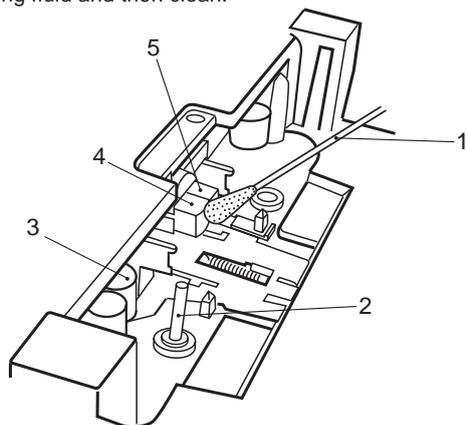
To release the sleep timer while in operation

Press the SLEEP button, “SLEEP” 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.



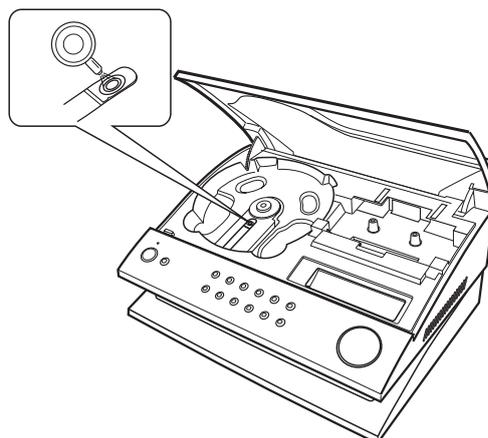
- 1. Cotton swab
- 2. Capstan
- 3. Pinch roller
- 4, 5. Head

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.

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. (Fig. 10) (Consult your dealer.)



SPECIFICATIONS

CD player

Type:
CD player
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
Frequency response:
80 Hz to 15 kHz
Signal-to-noise ratio:
40 dB
Wow/flutter:
0.15%(WRMS)
Fast forward/rewind time:
Approx.110 sec. (C-60)

Tuner

Reception frequency:
FM: 87.5 - 108 MHz
AM: 522 - 1710 kHz (9 kHz steps)
520 - 1710 kHz (10 kHz steps)

General

Output power:
30 W x 2 (at 6 ohms,10%distortion)
Input:
VIDEO (AUDIO) IN: 900mV/50k Ω
Outputs
SPEAKER: \geq 6 ohms
PHONES: 8-32 ohms
Power requirements:
AC 230 ~ 240V, 50 Hz
Power consumption:
48 W
Dimensions:
280(W) x 135(H) x 293(D) mm
Weight:
4.3 kg

Speaker systems (magnetic shield)

Type:
2 way bass reflex
Unit used:
Woofers: 10 cm cone type
Tweeter: 3.5 cm piezoelectric
Maximum power-handling capacity:
60 W (peak)
Nominal impedance:
6 ohms
Dimensions:
139(W) x 294(H) x 244(D) mm
Weight:
2.8 kg (per speaker)

Specifications subject to change without notice.

