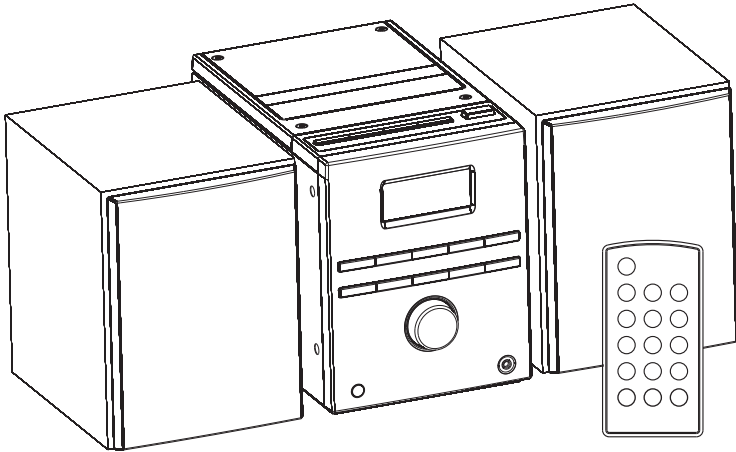


# SANYO

INSTRUCTION MANUAL

## DC-DB10

Micro Hi-Fi System with DAB+/FM



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## SAFETY PRECAUTIONS

To achieve the utmost in enjoyment and performance, please read this manual carefully before attempting to operate the unit in order to become familiar with its features, and assure you years of faithful, trouble free performance and listening pleasure.

### Important Notes

- \* Read instructions - All the safety and operating instructions should be read before the apparatus is operated
- \* Retain instructions - The safety and operating instructions should be retained for future reference.
- \* Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- \* Attachment Do not use attachment not recommended by the product manufacturer as they may cause hazards.
- \* Power Sources -The apparatus should be connected to a power supply only of the type described in the operating instructions of as marked on the apparatus.
  - \* "To be completely disconnected the power input, the mains plug of apparatus shall be disconnected from the mains." as the disconnect devices is the mains plug of apparatus.
- \* Power-Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the apparatus
- \* During Intended Use - The mains plug of apparatus should be easily accessed.
- \* Nonuse Periods - The power cord of the apparatus should be unplugged from the outlet when left unused for a long period of time.
- \* This apparatus shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the apparatus.
- \* The apparatus should be situated so that its location or position does not interfere with its proper ventilation. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.
- \* Do not install this apparatus in a confined space, such as a book case or built-in cabinet. Minimum distance (about 100mm) around the apparatus for sufficient ventilation.
- \* No naked flame sources such as lighted candles should be placed on the apparatus.
- \* Do not use where there are extremes of temperature (below 5°C or exceeding 35°C).
- \* 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.
- \* 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.
- \* Excessive sound pressure from earphones and headphones can cause hearing loss.
- \* Attention should be drawn to the environmental aspects of battery disposal.
- \* The caution marking was located at the bottom enclosure of the apparatus.
- \* The nameplate marking was located at the back enclosure of the apparatus.
- \* The use of apparatus in moderate climates.

**ESD Remark: In case of malfunction due to electrostatic discharge, just reset the product (reconnect of power source may be required) to resume normal operation. Should any trouble occur, remove the power source and refer servicing to qualified personnel.**

**WARNING : TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO DRIPPING OR SPLASHING.**

For safety reasons, do not remove any covers or attempt to gain access to the inside of the product.

Refer any servicing to qualified personnel.

Do not attempt to remove any screws, or open the casing of the unit; there are no user serviceable parts inside, refer all servicing to qualified service personnel.

### Note:

- This unit will become warm when used for a long period of time. This is normal and does not indicate a Problem with the unit.
- The CD player includes micro-processors which may malfunction as a result of external electrical Interference or noise. If the CD player is not working properly, disconnect the power source and then reconnect it.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- If an unusual conditions occurs in the display window or key button, switch the unit off, then turn on the unit again.



You can see this carved picture on the bottom of the main unit.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the information accompanying this unit.



You can see this carved picture on the bottom of the main unit.

### CAUTION

#### CLASS 1 LASER PRODUCT

Operating the unit in a way other than specified herein, or making adjustments to the unit may result in hazardous radiation exposure

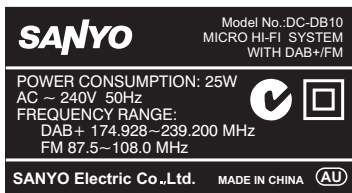


You can see this label in the CD compartment.

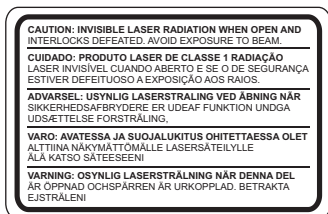
### LASER SAFETY

This unit employs a laser. Only qualified service personnel should attempt to repair.

**WARNING: RISK OF INVISIBLE LASER RADIATION WHEN CD LID IS OPEN OR INTERLOCKS FALL. AVOID DIRECT EXPOSURE TO THE BEAM.**

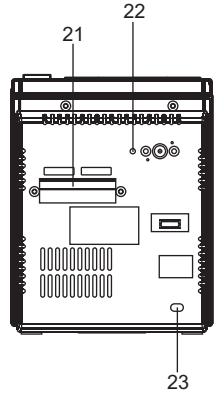
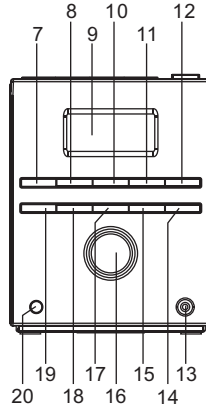
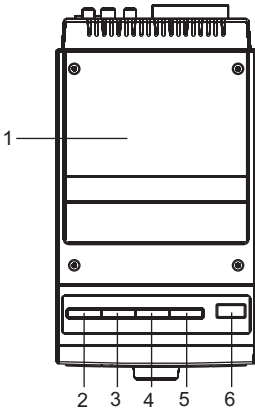


You can see this label on the back of the main unit.



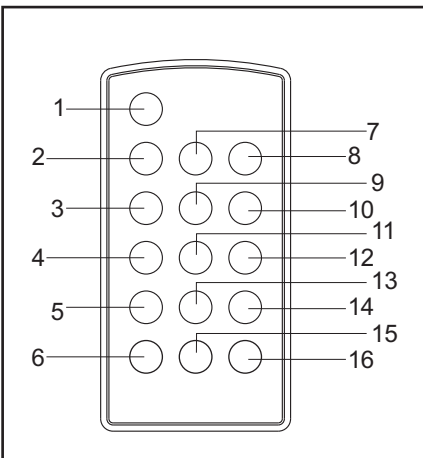
This label sticks inside of the unit.

## FEATURES AND CONTROLS



- |                                  |                          |
|----------------------------------|--------------------------|
| 1. CD DOOR                       | 13. HEADPHONE JACK       |
| 2. SCROLL ▼/ ⏪ BUTTON            | 14. REPEAT BUTTON        |
| 3. SCROLL ▲/ ⏩ BUTTON            | 15. PROGRAM BUTTON       |
| 4. PLAY/PAUSE/SELECT BUTTON(▶/⏸) | 16. VOLUME CONTROL       |
| 5. STOP/MENU BUTTON(■)           | 17. DISPLAY/INFO BUTTON  |
| 6. CD DOOR OPEN BUTTON           | 18. SLEEP BUTTON         |
| 7. STANDBY/ON BUTTON             | 19. TIMER BUTTON         |
| 8. CD BUTTON                     | 20. IR SENSOR            |
| 9. LCD DISPLAY                   | 21. SPEAKER TERMINALS    |
| 10. DAB+/FM BUTTON               | 22. DAB+/FM WIRE ANTENNA |
| 11. PRESET - BUTTON              | 23. AC POWER CORD        |
| 12. PRESET + BUTTON              |                          |

## REMOTE CONTROL

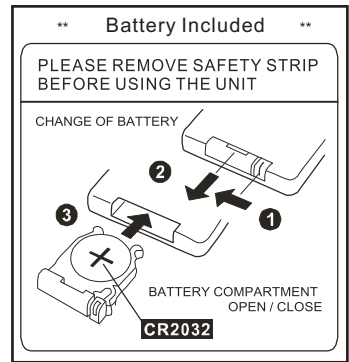


- |                                   |
|-----------------------------------|
| 1. STANDBY/ON BUTTON              |
| 2. DISPLAY/INFO BUTTON            |
| 3. REPEAT BUTTON                  |
| 4. PROGRAM BUTTON                 |
| 5. RANDOM BUTTON                  |
| 6. MUTE BUTTON                    |
| 7. DAB+/FM BUTTON                 |
| 8. CD BUTTON                      |
| 9. STOP/MENU BUTTON(■)            |
| 10. PLAY/PAUSE/SELECT BUTTON(▶/⏸) |
| 11. SCROLL ▼/ ⏪ BUTTON            |
| 12. SCROLL ▲/ ⏩ BUTTON            |
| 13. PRESET - BUTTON               |
| 14. PRESET + BUTTON               |
| 15. VOLUME - BUTTON               |
| 16. VOLUME + BUTTON               |

## PUTTING THE BATTERY INTO THE REMOTE CONTROL UNIT

1. Press the battery compartment gently according to the direction indicated in the illustration.
2. Slide to open the battery compartment.
3. Insert the supplied CR2032 battery into the compartment according to the polarity markings ("+" and "-") inside the compartment and on the battery. Replace the battery compartment until it clicks.

**NOTE:** Remove the batteries from the remote control if not in use for long period of time. Replace with new batteries when the batteries become weak, otherwise the remote control will not function properly.

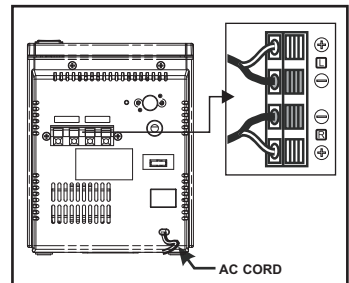


## REMOTE CONTROL OPERATION

Insert the batteries into the remote control. Point the remote control at the remote sensor on the front panel. The remote control works within a distance of about 7 meters from the sensor and within an angle of about 30 degrees from the left and right side.

## INSTALLING THE SPEAKER WIRE TO THE SPEAKER TERMINALS

1. **Speakers Connection**  
Extend the SPEAKER WIRES and connect them to the SPEAKER TERMINALS.
2. **Power Cord Connection**  
Before using, connect the AC Power Cord to 240V AC outlet.



## OPERATING THE UNIT

Before operating the unit for the first time, make sure the AC power cord is properly connected to a 240V 50Hz AC outlet, then you can now press the STANDBY/ON button to switch the unit ON. Pull the AC plug out of the wall socket if you want to switch off completely.

## CLOCK SETTING

The clock will only set and be updated if you can receive DAB+ signals in your location. In order for the clock to synchronise to the current local time you must leave it one DAB+ station for a short period. Manual clock setting is not required.

## LISTENING TO YOUR RADIO

### Hints for better reception

This unit is fitted with a single lead wire DAB+/FM antenna, to obtain the best performance, you should fully extend the wire antenna and adjust the position as well as the direction until you find the best reception. For ideal DAB reception, always maintain the lead wire antenna in a vertical position (holding it upward or downward behind the unit) is highly recommended.

### Getting started DAB mode

When the unit is powered up for the first time, it will be in standby mode. The display will show "00:00" and "Setting clock ...". Press the **STANDBY/ON** button once to switch the unit on, it will automatically enter into the DAB mode and perform auto scan function. During the scan the display will show "Scanning ..." together with a slide bar that indicates the progress of the scan and the amount of stations that have been found so far. (F. 1) (F. 2) (F. 3)



Once the scan has finished, the radio will select the first alphanumerically found station. You can now press the **SCROLL ▲** or **▼** button to explore the found stations and then press the **SELECT** button to select your station.

**Note:** If there is no stations found after auto scan, you can press the **MENU** button to enter into the Tune Select Menu and you can now press the **SCROLL ▲** or **▼** buttons followed by pressing the **SELECT** button to select manual tune or auto scan modes for stations.

### DAB auto tune modes

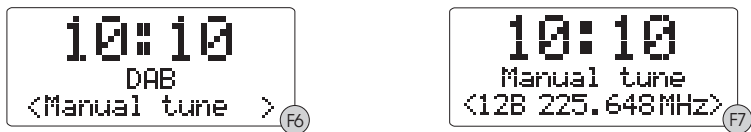
There are two types of auto scan modes, one is local auto scan and the other is full auto scan. Local auto scan will only search for part of the DAB Band III channels and full auto scan will search for the entire DAB Band III channels. After the scan has finished, the first alphanumerically found station will be automatically selected.

1. To activate the auto scan modes, first press the **MENU** button to enter into the Tune Select Menu, then press the **SCROLL ▲** or **▼** button to select "Local scan" or "Full scan", finally press the **SELECT** button to confirm, the display will show "Scanning ..." and a progressing slide bar. (F.4) (F.5)
2. All the stations that have been found will be stored automatically, to explore the found stations, press the **SCROLL ▲** or **▼** buttons; and when you find a station that you would like to listen to, press the **SELECT** button



### DAB manual tune

1. To select manual tune, first press the **MENU** button to enter into the Tune Select Menu, then press the **SCROLL ▲** or **▼** buttons to select "Manual tune", finally press the **SELECT** button to confirm. (F. 6)
2. Press the **SCROLL ▲** or **▼** buttons to move through the DAB channels, the display will show "5A to 13F" and their associated frequencies. (F. 7)
3. When your desired frequency appears in the display, press the **SELECT** button to confirm. The name of the station group (ensemble/multiplex) will be displayed.
4. To listen to the station selected, press the **SELECT** button again.

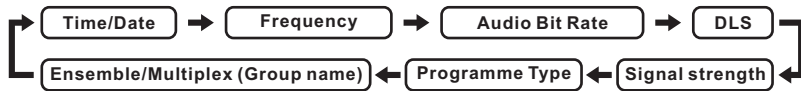


### DAB secondary services

On some occasions you will see a ">" symbol directly after the name of the station, this indicates that there are secondary services available to that station. These secondary services contain extra services that relate to the primary station. E.g. a sports station may want to add extra commentaries. The secondary services are inserted directly after the primary station.

## DAB display modes

Every time you press the **DISPLAY/INFO** button, the display will cycle through the following display modes:



### Time and date

The time and date will be automatically updated by the broadcasted information; it is no need to set the clock manually. In the unlikely event that no clock information is received, the display will show “[No Time]”.

### Frequency

The frequency of the present station will be displayed.

### Audio bit rate

The display will show the digital audio bit rate being received.

### DLS

DLS stands for Dynamic Label Segment which is a scrolling message that the broadcaster may include in their transmissions. The message usually includes information such as programme details ...etc.

### Signal strength

The display will show a slide bar to indicate the signal strength, the stronger the signal, the longer the bar will be from left to right.

### Programme type

This describes the style of the programme that is being broadcast. If the information is not available, the display will show “[No PTY]”.

### Ensemble/Multiplex (Group name)

The Ensemble/Multiplex is a collection of radio stations that are bundled and transmitted together in a single frequency. There are national and local multiplexes, local ones contain stations that are specific to that area.

**Note:** Press and hold the **DISPLAY/INFO** button for longer than 2 seconds, the software version number will be displayed.

### FM radio

1. To select FM, press the **DAB+/FM** button, the FM frequency will be displayed. (F. 8)
2. To activate auto search, press and hold the **◀◀** or **▶▶** buttons until it starts to scan down or up the frequency band, it will stop automatically once a station has been found.
3. To activate manual search, repeatedly press the **◀◀** or **▶▶** button.
4. To select audio mode, press the **SELECT** button to toggle between the “Auto” or “Mono” selection.

**Note:** The radio will automatically switch between stereo and mono mode, but you can override this and switch this function manually which is helpful for poor signal reception.



## STORING AND RECALLING PRESET STATIONS

In either DAB or FM, you can store up to 10 stations to the favourite presets; this will enable you to get direct access to your favourite stations.

1. To store a preset, first tune to your desired station, then press and hold the **PROGRAM** button until the display shows the preset number and flash. (F. 9)

2. Press the **PRESET +/-** buttons to select your desired station preset number.
3. Finally press the **PROGRAM** button to confirm your selection, the display will show "Preset # stored". (F.10)
4. To recall a preset station that you have stored, press the **PRESET +/-** buttons, the display will show the preset number and the associated information. It would tune to the station in one second after the buttons are released. (F.11)



## FACTORY RESET

When you move the system to another part of the country, your pre-tuned and stored DAB stations may no longer be available. If this is the case then you will need to reset your system back to its original factory settings; to perform a factory reset, please do the following:

1. Connect the unit to mains and press the **STANDBY/ON** button once to turn the unit on.
2. Ensure the unit is in DAB mode, then press and hold the **MENU** button until the display shows "Press SELECT to confirm reset".
3. Release the **MENU** button and press the **SELECT** button once, the display will show "Restarting..." and then perform auto scan function.
4. After the scan has finished, the radio will select and display the first alphanumerically found station.

**Note:** All of your stored DAB & FM presets will be lost once the reset has taken place.

## LISTENING TO YOUR COMPACT DISCS

**NOTE:** Although this CD player can read CD-R and CD-RW discs in addition to normal CDs, the playability of CD-R and CD-RW discs may be affected by the type of software that was used to create the discs, as well as the quality and condition of the blank media you are using, 100% playability cannot be guaranteed. This is not an indication of a problem with the player.

### Playing the entire CD

1. When the unit is ON, press the **CD** button to select CD function. The display will first show "Switch to CD" and then finally "NO DISC". (F.12) (F.13)
2. Press the **OPEN** button to open the CD door, insert the disc with the printed label side facing up and then close the CD door. The display will first show "READING" and then the total number of tracks and time. (F.14)
3. Press the **▶/II** button to start playback from the first track, the display will show the current track number and elapsed time. (F.15)
4. To interrupt playback, press **▶/II** button once, "II" will be displayed and the time in the display will flash.
5. To resume playback, press the **▶/II** button again.
6. To stop playback, press the **■** button.

### Selecting a different track during play

1. To select a different track during play, press the **◀◀** or **▶▶** buttons until the desired track number appears on the display, then release the button, playback will begin from this track.
2. To play the next track, press the **▶▶** button once.
3. To play the previous track, press the **◀◀** button twice.
4. To play the current track from the beginning during play, press the **◀◀** button once.

### Repeat play

1. Press the **REPEAT** button to select the repeat play, to repeat the same track, press the **REPEAT** button once, the display will show "↺ 1". (F.16)
2. To repeat the entire disc, press the **REPEAT** button again, the display will show "↺ 5". (F.17)
3. To cancel repeat play, repeatedly press the **REPEAT** button until the repeat icon disappears in the display.

### Random play (remote control only)

1. During CD stop, press the **RANDOM** button on the remote control to start random play, the display will show "RANDOM" and the tracks will be started playing randomly. (F.18)
2. During normal CD playback, first press the **RANDOM** button once, when the display shows "RANDOM", press the **◀** or **▶** buttons to randomly select playing another track.
3. To cancel random play, press the **RANDOM** button again until the "RANDOM" disappears in the display.

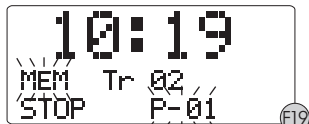
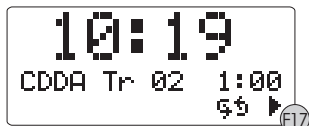
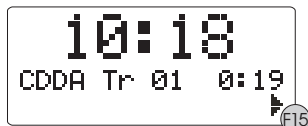
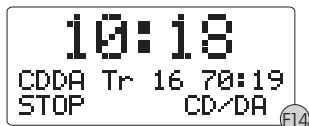
### Program play

In CD stop mode, a maximum number of 20 tracks can be programmed to play in any desired order.

1. Load your disc as usual and wait until the display shows the total number of tracks.
2. Press the **PROGRAM** button, the display will show "P- 01" and flash. (F.19)
3. Press the **◀** or **▶** buttons to select the first track to be programmed, then press the **PROGRAM** button to confirm, the first track to play is now programmed, the display will show "P- 02" and ready for the next entry.
4. Repeat the above procedure to program other tracks for program play.
5. When you have completed programming, press the **▶/II** button to begin program play, the display will show "MEM". Playback will begin on the first track you programmed and will continue until the last programmed track has played.
6. To erase the program, in CD stop mode, press the **■** button once; in CD play mode, press the **■** button twice. "MEM" will disappear in the display.

### Repeat program play

You may use the program play and the repeat play features together to continuously repeat a programmed playback. First program the desired playback sequence, then press the **REPEAT** button to select repeating the current track or the entire programmed sequence.



## TIMER FUNCTION

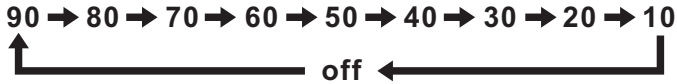
You can set the timer to switch on the system at your desired time, listening mode and volume level.

1. Press the **TIMER** button to toggle the timer function between "On" and "Off", the display will show the timer on/off status, the timer on mode and the time. (F. 20)
2. To set the timer, press and hold the **TIMER** button until the display shows "Timer Set" and the "hour" digit of the timer clock in the display will flash. (F. 21)
3. Press the **▲** or **▼** buttons to set the time and press the **TIMER** button to confirm, first set the hour and then the minute.
4. When the time to switch on the system is set, the display will show the timer on mode and flash, press the **▲** or **▼** buttons to select the mode (CD/FM/DAB), then press the **TIMER** button to confirm and the timer on mode is set.
5. The display will show the volume level and flash, press the **▲** or **▼** buttons to select the timer on volume level, then press the **TIMER** button to confirm and the timer setting is now completed.

## SLEEP FUNCTION

This function allows you to program the system to switch off itself after a set period of time.

1. To activate the sleep function, repeatedly press the **SLEEP** button, the sleep time in the display will change in sequence on every press:



2. When the display shows your desired sleep time, release the button, the sleep timer is now activated. The display will show "S#" in which "S1" is to indicate "10 minutes" sleep time and so on. (F.22)
3. To cancel sleep function, press the **SLEEP** button once, the display will show "Sleep-Off" and the "S#" will be disappeared.



## MUTE FUNCTION (remote control only)

Press the **MUTE** button on the remote control will stop the sound from the speakers temporarily, the display will show "MUTE" and flash. To cancel mute and restore the sound, press the **MUTE** button again or the **VOLUME +/-** button, the "MUTE" will disappear in the display.

## HEADPHONE JACK

A 3.5mm type stereo headphone jack is located on the front panel. Connect a set of stereo headphones (not included) to this jack for private listening without disturbing others. The external speakers are automatically disconnected when the headphones are in use.

**IMPORTANT:** When using headphones always set the volume to a low level before you put the headphones on. Then insert the headphones and gradually increase the volume to a comfortable listening level.

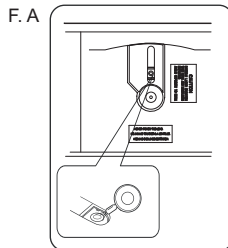
## MAINTENANCE

### Cleaning the unit

Clean the outside of the unit with a clean soft cloth, moistened with lukewarm water. Do not use benzene, thinners, or alcohol since they will damage 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 (F. A). (Consult your dealer.)

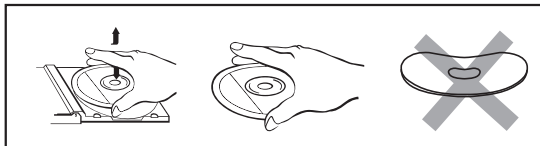


## COMPACT DISC

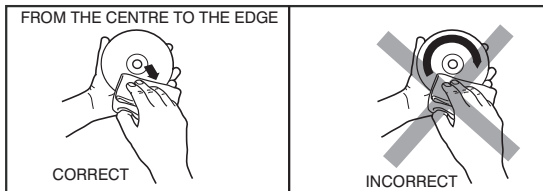
1. Always use compact discs bearing the mark as shown.



2. Notes on handling discs  
Removing the disc from its storage case.
  - \* Do not touch the reflective recorded surface.
  - \* Do not stick paper or write anything on the surface.
  - \* Do not bend the disc.



3. Storage
  - \* Store the disc in its case.
  - \* Do not expose discs to direct sunlight or high temperatures, high humidity or dusty places.
4. Cleaning a disc
  - \* Should the disc become soiled, wipe off dust, dirt and fingerprints with a soft cloth.
  - \* The disc should be cleaned from the centre to the edge.



- \* Never use benzene, thinners, record cleaner fluid or anti static spray.
- \* Be sure to close the CD door so the lens is not contaminated by dust.
- \* Do not touch the lens.

## SPECIFICATIONS

POWER SUPPLY:	AC~ 240V 50Hz
OUTPUT POWER:	3W x 2
UNIT DIMENSION:	135 (L) x 233 (W) x 170 (H) mm
SPEAKER BOX DIMENSION:	130 (L) x 135 (W) x 170 (H) mm
WEIGHT:	3.32Kg

### RADIO SECTION

FREQUENCY RANGE:	DAB+ 174.928-239.200 MHz
	FM 87.50-108.00 MHz

### COMPACT DISC SECTION

OPTICAL PICKUP :	3 - BEAM LASER
FREQUENCY RESPONSE :	100Hz - 16KHz
LASER OUTPUT:	0.6mW (Maximum continuous wave)
WAVE LENGTH:	790nm

**\*\* SPECIFICATIONS SUBJECT TO CHANGE WITHOUT FURTHER NOTICE.**

## TROUBLE SHOOTING

### SYMPTOM

### POSSIBLE CAUSE CORRECTIVE ACTION

---

No power  
No mains lead plug connection at the AC outlet.  
Insert the plug into the AC outlet.

---

The power is on, but the CD player does not work.  
No disc is loaded.  
Load a disc.

---

Sound is heard from one speaker.  
Faulty connection of speaker wires.  
Connect the speaker wires firmly to the speaker terminals.

---

The CD player does not start playback. No disc is loaded.  
Loaded a disc.  
An unplayable disc is loaded. Load a playable disc.  
The disc is not loaded correctly.  
Load the disc with the label facing up on the disc tray.

---

The disc is dirty.  
Clean the disc or replace it.

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The CD player does not start playback and "NO FILE" appears.  
An unplayable disc is loaded. Load a playable disc.  
The disc is not loaded correctly.  
Load the disc with the label facing up on the disc tray.

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The remote controller does not work properly. The batteries in the remote controller are weak, or installed incorrectly.  
Check the battery polarity (+ or -). Replace the battery.  
The remote controller is not aimed at the remote sensor window.  
Aim the remote controller at the remote sensor window.

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No sound.  
Volume control is set to minimum.  
Turn up the volume.  
The wrong function is selected.  
Select the correct function.  
Faulty speaker connections.  
Connect the speaker wires firmly to the speaker terminals.

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The operation of the unit or display is not normal.  
The unit must be reset.  
1. Disconnect the main lead and replug again.  
2. Resume operations.

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FM stereo broadcast is hard to hear due to much noise.  
Weak signal.  
Press the **SELECT** button to display "MONO".  
Reorient the FM aerial wire. Connect the speaker wires firmly to the speaker terminals.

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SANYO Electric Co., Ltd.

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