

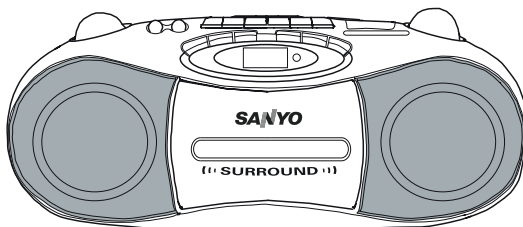


# SANYO

**INSTRUCTION MANUAL**

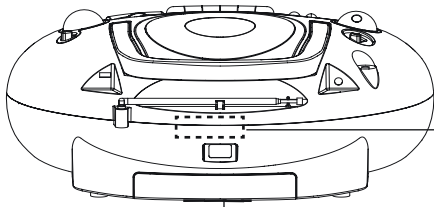
**MCD-ZX540F**  
**MCD-ZX541F**

**CD Portable Radio Cassette Recorder**





## PRECAUTIONS



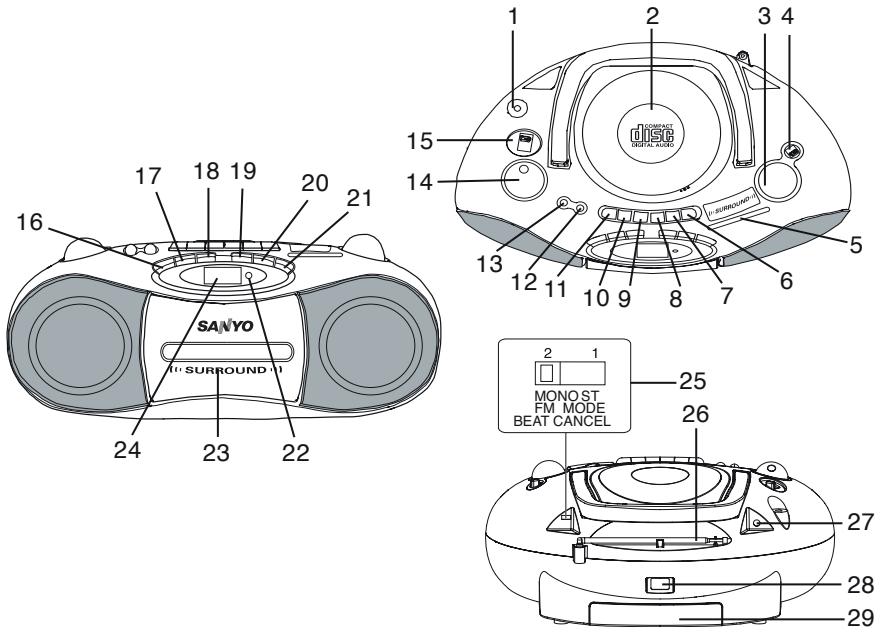
CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.	
ADVARSEL-USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.	
VARNING-OSYNLIG LASER STRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.	
VORSICHT! -UNSICHTBARE LASERSTRALHUNG TRITTT AUIS. WENN DECKEL GEÖFFNET UND ENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST, NICHT, DEM STRAHL AUSSETZEN.	
VARO !- AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄÄ KATSO SÄTEESEEN.	

**CLASS 1 LASER PRODUCT**  
**LUOKAN 1 LASERLAITE**  
**KLASS 1 LASERAPPARAT**

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

- The apparatus shall not be exposed to dripping or splashing.
- No object filled with liquid, such as vase shall be placed on the apparatus.
- Do not use where there are extremes of temperature (below 5 °C or exceeding 35 °C).
- 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 change 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.
- Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- To be completely disconnect the power input, the mains plug of apparatus shall be disconnected from the mains.
- Do not install this equipment in a confined space, such as a book case or built in cabinet.
- The rating label is located on the bottom of the unit.
- The mains plug of apparatus should not be obstructed OR should be easily accessed during intended use.
- 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.
- Minimum distances around the apparatus for sufficient ventilation.
- Attention should be drawn to the environmental aspects of battery disposal.

## CONTROLS



1. Headphones socket (PHONES)
2. CD Compartment Lid
3. Tuning control (TUNING)
4. Band select switch (BAND)
5. Frequency indicator
6. Record button (REC)
7. Play button (PLAY)
8. Rewind button (REW)
9. Fast forward button (F. FWD)
10. Stop/Eject button (STOP/EJECT)
11. Pause button (PAUSE)
12. Bass expander button (BASSXPANDER)
13. Surround button (SURROUND)
14. Volume control (VOLUME)
15. Function switch (CD, RADIO, LINE IN, TAPE/OFF)
16. Stop button (STOP ■)
17. Skip/Search down button (SKIP/SEARCH ◀◀)
18. Memory (MEMORY)
19. Repeat button (REPEAT)
20. Skip/Search up button (SKIP/SEARCH ▶▶)
21. Play/Pause button (PLAY/PAUSE ▶/||)
22. Power indicator (POWER)
23. Cassette holder
24. Display
25. FM mode/Beat cancel switch (FM MODE/BEAT CANCEL)
26. Telescopic aerial
27. Line in socket (LINE IN)
28. AC input socket (AC INPUT~)
29. Battery compartment lid



# POWER SUPPLY

## AC Power

Connect one end of the mains lead to the AC INPUT ~ socket and the other end to an AC outlet.

Note:

- The installed batteries are automatically disconnected when the mains lead is connected to the unit.
- The FUNCTION switch is mounted on the secondary side. The unit is not disconnected from mains, even switched off.

## Battery power

### Installing batteries

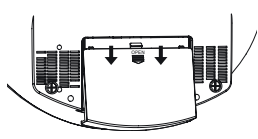
Install eight "D/HP2/R20" batteries (not supplied) as shown below.

## Caution on batteries

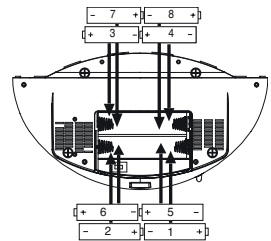
To prevent battery electrolyte leakage, which may result in injury and damage to the unit or other objects, observe the following precautions:

1. All batteries must be installed with the proper polarity (see diagram on the rear of the unit).
2. Do not mix new with old or used batteries.
3. Only use batteries of the same type and brand.
4. Remove the batteries when they are not to be used for a long period time.
5. When the batteries have become discharged, they must be disposed of in a safe manner which complies with all applicable laws.
6. Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

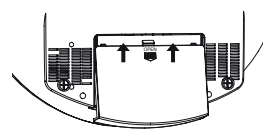
1.



2.



3.



# GENERAL OPERATION

## Adjusting the volume

Turn the VOLUME control.

## Bass expander button

Press the BASSXPANDER button to **ON** to enhance the bass sound.

## Surround sound button

Press the SURROUND button to **ON**, a 3 dimensional sound effect is created.

## 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.

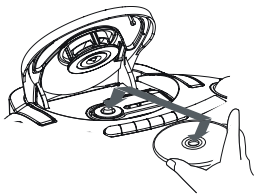


## CD PLAY

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



1. Set the FUNCTION switch to CD. “...” blinks for several seconds then the CD mode appears.
2. Press the CD compartment lid (OPEN/ CLOSE portion) to open it. “00” appears on the display.
3. Place the disc with the label facing up on the turntable as shown below. (Place only one disc at a time.)



4. Press the CD compartment lid (OPEN/ CLOSE portion) to close it. The total number of tracks on the disc appears on the display.
5. Press the PLAY/PAUSE ►/|| button.



The current track number appears. Play starts from the first track.

- To start play from the desired track, select the track by using the ◀◀ or ▶▶ button, then press the PLAY/PAUSE ►/|| button.

Note:

If no disc is loaded or the disc is located with the label facing down “00” appears. If these occur, load the disc correctly or replace the damaged disc.

6. Press the STOP ■ button to end disc play back. When the last track has been played, the player stops automatically.
7. To turn the CD player off, set the FUNCTION switch to TAPE/OFF .

Note:

Do not open the CD compartment during CD play. Always press the STOP ■ button and wait for the disc to stop rotating before opening the CD compartment.

This unit can play back the CD-R/RW as well. However, some CD-R/RW can not be played back depending on the recording conditions.

### Notes on handling compact discs

- Do not expose the disc to direct sunlight, high humidity or high temperature 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 center 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.

### Temporarily stopping play

Press the PLAY/PAUSE ►/|| button, “►” 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 “6” appears on the display. To skip back to track 3 while track 6 is playing, press the ◀◀| button repeatedly until “3” appears.

### Search (forward/reverse)

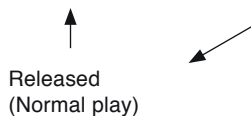
If the ►▶| or ◀◀| button is pressed during play, the player will search at high speed in the forward or reverse direction while the button is being pressed. When the button is released, normal play will continue.

## Repeat playing mode

Press the REPEAT button repeatedly to select a repeat play mode available. Each time the button is pressed, the mode changes as shown below:

### [CD]

"REPEAT" blinks (Repeat one track) → "REPEAT" appears (Repeat all tracks)



## PROGRAMMED PLAY

Up to 20 tracks on a disc can be programmed for play in any order.

- To begin the programming procedure, set function switch to "CD" first.
- The same track can be programmed more than once.
- Load a disc that you want to programme before starting programmed play.

1. Press the STOP ■ button if necessary.
2. Press the MEMORY button, the "01" and "MEMORY" blink.



3. Select a track by using the I◀◀ or ▶▶I button.



4. Press the MEMORY button.



5. Repeat steps 3 - 4 to programme additional tracks.
6. Press the PLAY/PAUSE ▶/|| button to start playback. "MEMORY" remains lit.



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

- The programme contents are retained in memory.
- Any attempt to programme more than 20 tracks will result in discontinuous of the programming.
- To cancel programmed play, press the STOP ■ button twice during play.

## Checking the programme

In stop mode when MEMORY remains lit press the MEMORY button once, the programmed details sequentially appear on the display.

## Changing a programme

### To add a new track to a programme:

1. In the stop mode, press the MEMORY button repeatedly until last programme number is displayed.
2. Select a track as explained above.
3. Press the MEMORY button.

### To change a track:

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

### Note:

Programmed details cannot be partially deleted or inserted.

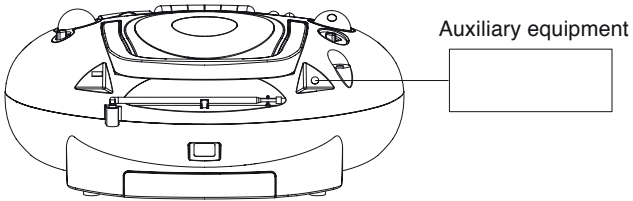
## WHAT TO DO IF...

If an abnormal display indication or an operating problem occurs, disconnect the mains lead and remove all batteries. Wait at least 5 seconds then reconnect the mains lead and reinstall the batteries. Resume the operation.



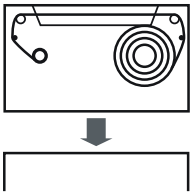
## LISTENING TO OTHER SOURCES

1. Connect the audio cable (not supplied) from the audio output socket of a auxiliary equipment to the LINE IN socket. (Stereo Mini Plug: ø3.5)
2. Set the FUNCTION switch to LINE IN.
3. Follow the instructions supplied with the other equipment.



## LISTENING TO TAPES

1. Set the FUNCTION switch to TAPE/OFF.
2. Press the STOP/EJECT button. The cassette holder opens.
3. Load the cassette into the cassette holder.



After loading the cassette, push the cassette holder back into position.

4. Press the PLAY button to begin playback.
5. Press the STOP/EJECT button to stop playback at any time. Press it again to remove the cassette.

When the end of the tape has been reached the tape stops automatically.

### 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 PAUSE button to temporarily stop playback or recording. Press it again to resume operation.

### Fast forward and rewind

Press the F. FWD or REW button. When the desired location has been reached, or the tape has been wound to the end, press the STOP/EJECT 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 STOP/EJECT button when the end of the tape has been reached.

Example (When using C-60 tape):

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



## LISTENING TO THE RADIO

1. Set the FUNCTION switch to RADIO.
2. Select the desired radio band with the BAND switch.
3. Tune in a desired station by turning the TUNING control.
4. To turn the radio off, set the FUNCTION switch to TAPE/OFF or CD or LINE IN.

### To receive FM stereo broadcasts

Set the FM MODE select switch (the back of the unit) to ST.

- If the signal from an FM stereo station is weak and reception is poor, set the FM MODE select switch to MONO. The reception may be improved, but the sound will be monaural.

### To improve reception

FM: Pull out the telescopic aerial and adjust its position.

AM: Rotate the unit.

## 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 from CD (Synchronous recording)

1. Load a blank cassette.
2. Set the FUNCTION switch to CD.
3. Load a CD to be recorded.
  - Select the track if required.
  - For programmed recording, programme the material in advance.
4. Press the REC button. The PLAY button is engaged simultaneously and recording starts.
5. Press the STOP/EJECT button to stop recording at any time. When the end of the tape is reached, deck stop automatically and the playback of CD enters stop mode.

### Recording from the radio or other sources

1. Load a blank cassette.
2. Tune in the radio station to be recorded or play other sources.
3. Press the REC button to start recording.
4. Press the STOP/EJECT 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 back of the unit) to 1 or 2 position that reduces the level of the beat noise.

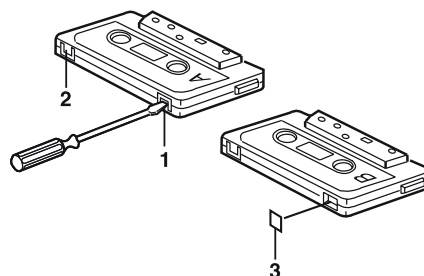
### Safeguards against accidental erasure

To protect side A, break out tab (1). To protect side B, break out tab (2).

- To erase or record a protected cassette, cover the tab openings with adhesive tape (3).

Note:

The REC button cannot be depressed when using a protected cassette.







## MAINTENANCE

### Cleaning the tape heads

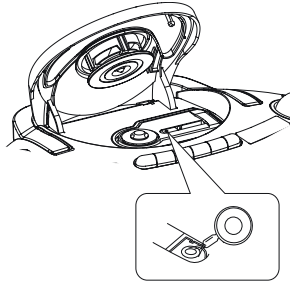
To ensure continued high performance, use a cleaning tape (available from your local audio dealer) to clean the head block of the deck after about every 10 hours of use.

### 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, thinners, or alcohol for they may mar the finish of the surfaces.





## SPECIFICATIONS

### CD player

Channels:  
2-Channel stereo  
Sampling frequency:  
44.1 KHz  
Pick-up:  
Semiconductor laser  
Laser output:  
0.6 mW (Continuous wave max.)  
Wave length:  
790 nm  
Wow/Flutter:  
Below measurable limits

### Radio

Reception frequency:  
FM: 87.5 - 108 MHz  
AM: 526.5 - 1606.5 KHz

### Cassette deck

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

### General

Output power:  
2 W/ch (DC max.)  
1.5 W/ch (AC max.)  
Speakers:  
10 cm x 2, 8 ohms  
Terminals:  
PHONES: 32 ohms  
Power source:  
AC: 230 - 240V, 50Hz  
DC: 12V, 8 "D/HP2/R20" batteries  
Dimensions:  
390 (W) x 165 (H) x 260 (D) mm  
Weight:  
Approx. 2.4 kg (not including batteries)

Specifications subject to change without notice.

# SANYO

SANYO Electric Co., Ltd.  
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