

# SANYO

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MCD-XJ790 (AU)

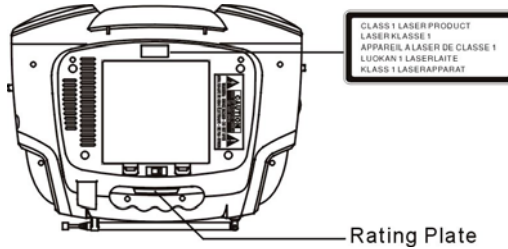
## INSTRUCTION MANUAL

### CD Radio Cassette Recorder



**CAUTION:**

**THIS PRODUCT CONTAINS A LOW POWER LASER DEVICE, TO ENSURE CONTINUED SAFETY DO NOT REMOVE ANY COVERS OR ATTEMPT TO GAIN ACCESS TO INSIDE OF THE PRODUCT. REFER ALL SERVICING TO QUALIFIED PERSONNEL.**

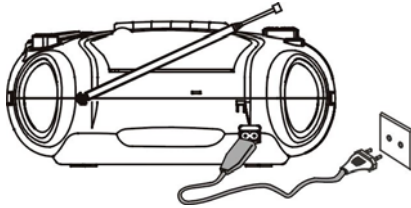


## FOR SAFE AND EFFICIENT OPERATION

- Do not damage the mains lead.  
When not in use, disconnect the mains lead from the outlet. Grasp the plug. Not the mains lead, when disconnecting the unit.
  - If water should enter the unit, electrical shock or a malfunction may result. Use in an area where there is low humidity and little dust.
  - Do not disassemble or alter the unit in any way.
  - Do not use the unit in areas where extremes in temperature occur (below 0 °C or exceeding 35 °C), or where it may be exposed to direct sunlight.
  - Because of the CD player's extremely low noise and wide dynamic range; there is a tendency to turn the volume on the amplifier higher than necessary. Doing so may product an excessively high output from the amplifier, which can cause damage to your speakers. Please be careful in this regard.
  - Sudden changes in the surrounding temperature can cause dew to form on the optical pickup lens inside the unit. Under this condition the unit may be unable to operate properly. If this should occur, remove the disc and allow the player to adjust to the surrounding temperature.
  - This unit must be operated in a horizontal position.
  - Please use the original CD software, and any copy discs are not recommendable for use.
- The apparatus shall not be exposed to dripping or splashing.  
Do not install the equipment in a confined space, such as a bookcase or built-in cabinet.

**THIS UNIT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.**

## POWER SUPPLY



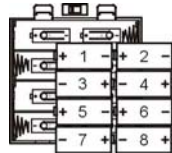
### AC power operation

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

The unit is not disconnected from the mains unless the mains lead is unplugged from the AC outlet.

The AC mains plug shall remain readily operable.

1. Install 8 x "C" size batteries (not supplied). Refer to the polarity diagram in the battery compartment of the unit. Match the marks of (+) and (-) on the diagram to the marks of (+) and (-) on the batteries.



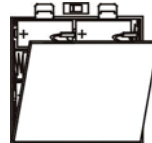
8 x "C" size batteries

### BATTERY PRECAUTIONS

Follow these precautions when using batteries in this device:

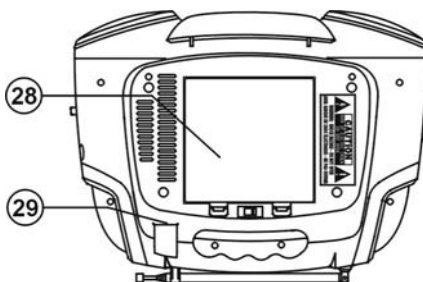
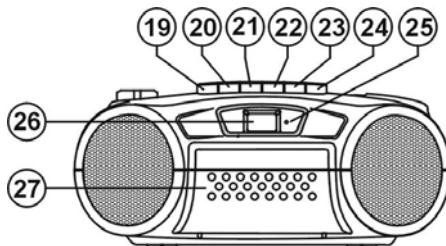
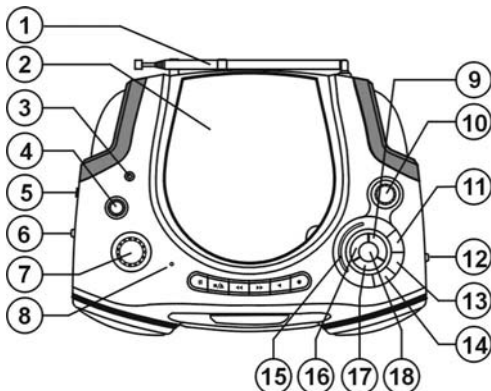
1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-Zinc) or old batteries with fresh ones.
4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries, which are not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)

2. Replace the lid.



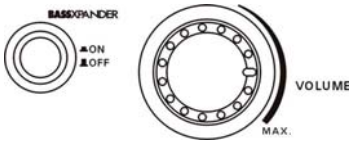
## OPERATING ELEMENTS

1. Rod Antenna
2. CD Compartment Door
3. AUX Input Socket
4. **BASSXPANDER** Button
5. Phones Jack
6. FUNCTION Selector
7. VOLUME Control
8. INT MIC - Build-in Microphone
9. ■STOP Button
10. TUNING Control
11. ►►/►►/UP Button
12. BAND Selector
13. ◀◀/◀◀/DOWN Button
14. RANDOM Button
15. DIAL POINTER
16. PROGRAM Button
17. REPEAT Button
18. ►||PLAY/PAUSE Button
19. ||PAUSE Button
20. ■/▲STOP/EJECT Button
21. ◀◀F. FWD Button
22. ►►REWIND Button
23. ◀PLAY Button
24. ●RECORD Button
25. FM STEREO Indicator
26. Display
27. Cassette Door
28. Battery Compartment
29. AC Socket



# GENERAL OPERATION

## To control the sound

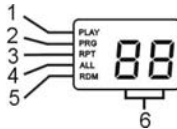


### BASSXPANDER

ON: Increase the bass output level.  
OFF: For normal bass output level.

### LCD DISPLAY SEGMENT

1. Play indicator
2. Program indicator
3. Repeat indicator
4. Repeat all indicator
5. RANDOM indicator
6. CD Track number indicator

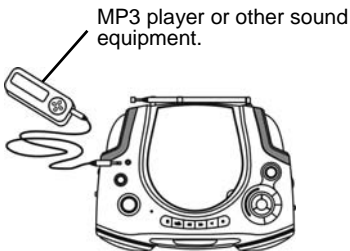


### NOTES:

- If a disc is loaded upside down, "--" will be displayed.
- If no disc is loaded, "--" will be displayed.
- Opening the CD compartment lid while a CD is playing could scratch the disc. Always press the STOP button and wait for the disc to stop rotating before opening the CD compartment lid.

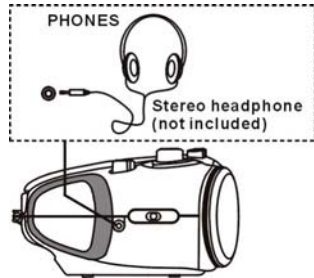
### AUX IN CONNECTION

1. Slide Function selector to AUX.
2. Connect one end of a 3.5 mm plug signal wire to AUX IN JACK and the other end of the signal wire to your home equipment.
3. Play your home equipment.



## Using headphones

When the headphones are plugged in, the speakers are automatically disconnected.



**CAUTION: Listening at high power for a long moment could damage users' ears.**

### Compact discs

- Both 8cm and 12cm discs can be played in this unit.

NOTE: Place only one disc at a time in the CD compartment.

- Only discs bearing the logo as shown can be played in this unit.



- This unit can play back the CD-R/RW as well, however, some CD-R/RWs can not be played back due to various recording condition: such as CD-R/RW recorder performance, writing software etc.
- It is normal for some noise comes from CD laser head when the unit is searching tracks or there is no disc in the CD compartment.
- Always place the compact disc in the CD compartment with the label side facing up. Compact discs can be played on only on side.
- Fingerprints and dust should be carefully wiped off the disc's signal surface (opposite the label side) with a soft cloth. Gently wipe in a straight motion from the inside to the outside of the disc.
- Discs should be returned to their case after use to avoid serious scratches, which could cause the player to skip.
- Do not expose a disc to direct sunlight, high humidity, or high temperatures for extended

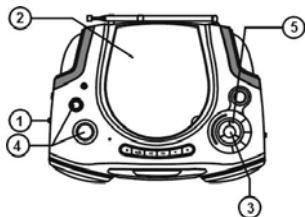
- periods of time to prevent warping the disc.
- Do not apply paper or write anything on the surface of the disc.
- Do not use cleaners or antistatic sprays on discs, such as those used for phonograph recorder.

**IMPORTANT NOTE:**

If an abnormal display indication, audio noise or an operating problem occurs, back to OFF position, then disconnect the mains lead and all cables. Remove the batteries (see page 2). Wait at least 5 seconds, and then reconnect all cables to correct position. Reconnect the mains lead and reinstall the batteries.

**COMPACT DISC OPERATION**

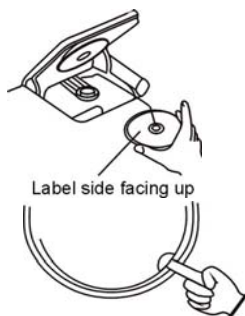
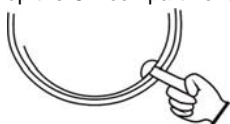
**CD PLAY**



1. Set Function selector to CD.



2. Pull up the CD compartment door.

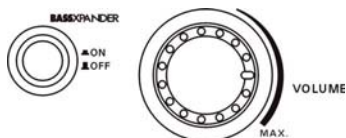


Push down to close the CD door.

3. Press PLAY to start playback.



4. To control the sound.



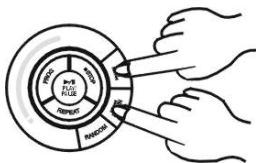
5. Press STOP to stop playing. Display indicates total track number of the disc.



Set Function selector to TAPE-OFF to turn off the unit.

## PAUSE

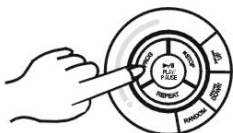
1. Press the PAUSE button. The CD player will temporarily stop.
2. Press the PLAY/PAUSE button to resume play.



## TRACK SKIP

1. Press and release the  $\gg/\ggg$  or  $\lll/\ll$  button repeatedly during play to quickly locate the beginning of a track.
2. The CD track number display will show the number of the selected track.

Press and release repeatedly

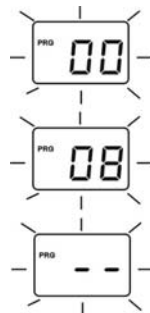


Press and release repeatedly

## PROGRAM

In stop state, press PROGRAM and use skip/search to select the track to be programmed, press play to start program play.

1. Press PROGRAM, "00" and "PRG" indicate and flash.
2. Press  $\gg/\ggg$  or  $\lll/\ll$  to select disc track.
3. Press PROGRAM to store the selected track. Display indicates "00" for selecting next program track number.
4. Repeat step 2 & 3, 20 tracks will be programmed at most. It indicates full memory when display as right graphic.



- To clear the program, press "STOP" during stop mode
- To review the program memory status that you have made recently  
To review programmed memory number, press PROGRAM one by one, LCD display shows programmed memory number in flashing and programmed music track number in sequence.

Note: Once you open CD door, all programs you have made are cleared.



## REPEAT

Press REPEAT once to activate Repeat, press again to activate Repeat All, and press again or press STOP to cancel REPEAT.

1. When "PLAY" and "RPT" indicates. A single track is played repeatedly.
2. When "PLAY" and "RPT ALL" indicates. All tracks are played repeatedly.

## RANDOM

Press RANDOM to activate Random in stop state.

1. When "PLAY" and "RDM" indicates. Random track is played.
2. Press STOP to cancel RANDOM.



REPEAT REPEAT ALL RANDOM

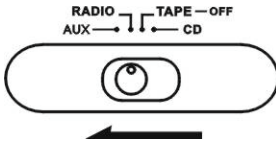
When the above don't be indicated. Resume to normal playback.

Random mode cannot be activated during programmed play.

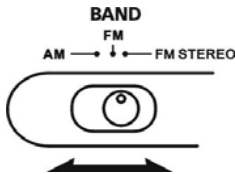
## RADIO OPERATION



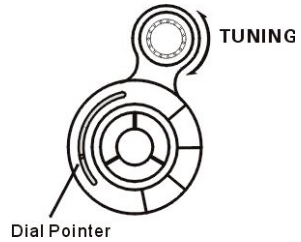
1. Set Function selector to RADIO



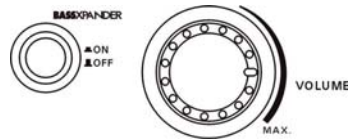
2. Set Band selector to select a band (AM FM or FM STEREO). FM STEREO indicator will be light on when a station is received at FM STEREO mode.



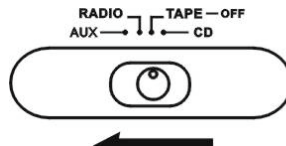
3. Tune in a station.



4. To control the sound



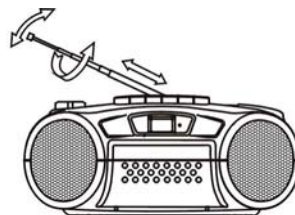
5. To turn off the unit



6. To improve reception.



AM-Rotate the unit



FM-Extend the Rod Antenna and change position

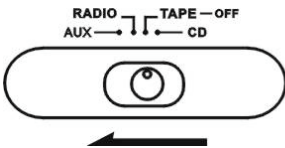


# CASSETTE TAPE OPERATION

## PLAYBACK



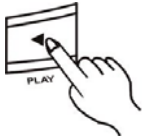
1. Set Function selector to TAPE-OFF



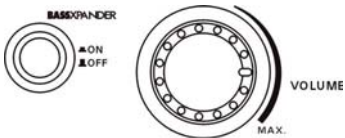
2. Press STOP/EJECT to open Cassette door. Insert cassette.



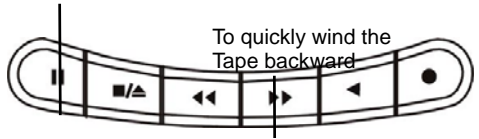
3. Press PLAY



4. To control the sound.



Press to temporarily stop the tape during playback or recording. Press it again to continue.



To quickly wind the Tape forward



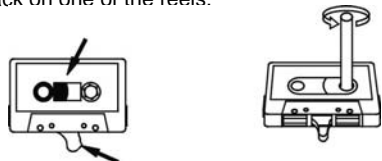
Press STOP/EJECT once to stop the tape. Press again to remove the cassette.

### Recommended Cassette Tapes

In order to obtain optimum performance with the built-in cassette tape deck, it is essential to use only high quality cassette tapes. The bias and equalization of this tape deck is adjusted to yield excellent results if used with brand name tapes. Use C-30, C-60 and C-90 cassette tapes only. We do not recommend using the C-120 cassettes because they can be subject to mechanical instability and proper, constant tape tension cannot be controlled.

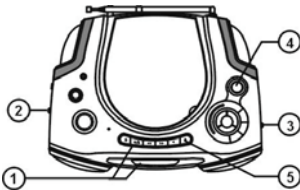
### Checking the Cassette (Slack Tape)

Make sure that the cassette tape has no slack prior to inserting it into the cassette compartment. Unless the tape is taut, it may wind around the head mechanism and trouble may result. Use a pencil as shown to take up slack on one of the reels.

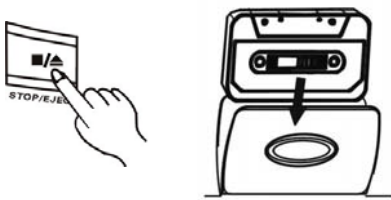


# RECORDING

## (A) Recording from the built-in radio



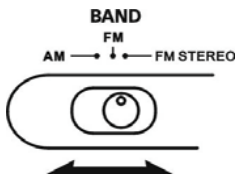
1. Press STOP/EJECT. Insert cassette.



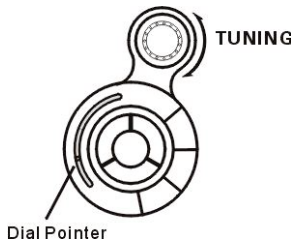
2. Set Function selector to RADIO.



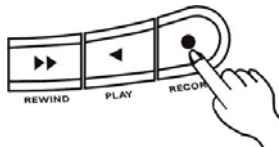
3. Select a band (AM FM or FM STEREO)



4. Tune in a station.



5. Press RECORD to start recording.



### WARNING

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 of this machine.

### Automatic Level Control (ALC) recording

The ALC circuit adjusts the recording input level automatically. No adjustment is required.



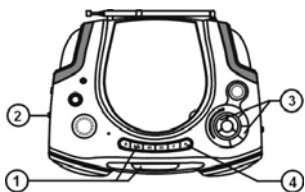
Press STOP/EJECT once to stop the tape. Press again to remove the cassette.

## (B) Recording from the built-in microphone

1. Press STOP/EJECT and insert cassette.
2. Set Function selector to TAPE-OFF
3. Press RECORD.
4. The built-in microphone would pick up and record your sound automatically.



**(C) Sync recording from a compact disc**

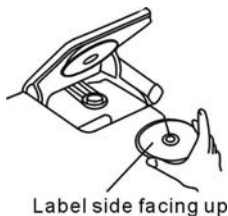


1. Press STOP/EJECT to open cassette door.

Insert cassette.



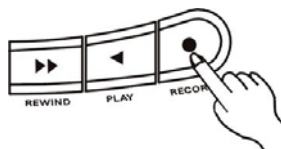
2. Set Function selector to CD. Open the CD door and place disc with label side facing up.



3. Program the CD tracks if you want.



4. Press RECORD, the CD will be played from track 1 or from the track you just programmed and the unit starts sync recording.



Press STOP/EJECT once to stop the tape, and CD will be changed to pause mode, press RECORD to continue recording. Press STOP/EJECT again to remove the cassette.

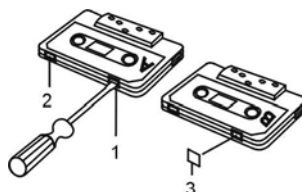


**Safeguards against accidental erasure**

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

NOTE:

A cassette with the erase guard tabs removed cannot be erased or used for recording and the RECORD button cannot be depressed. To record or erase a protect cassette. Cover the tab openings with adhesive taps (3).



## MAINTENANCE

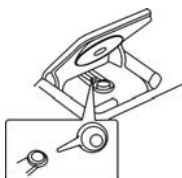
### Cleaning the unit

Clean the outside of the unit with a clean soft cloth, moistened with lukewarm water. Do not use solvents such as benzene or thinner. These will permanently damage the unit's finish.

### 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. (Please consult your dealer.)



### If trouble occurs...

To avoid the hazard of electric shock and damage to the unit, have the unit bench tested by an authorized SANYO service station. Do not remove the unit from its cabinet to attempt repairs yourself.

### Warning

- Do not block the ventilation hole.
- Do not expose to rain or moisture.

### Cleaning the tape heads

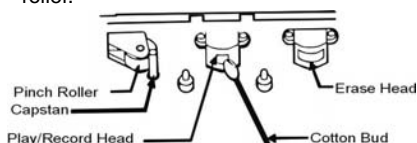
When dust or reddish-brown oxide builds up on

the tape deck heads, pinch roller and capstan, the following problems may result:  
 Poor sound quality during playback  
 Distorted, poor quality recordings  
 Erratic tape speed during recording or playback

To ensure playback and recording with good quality sound, 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.

OR

1. Open the cassette compartment lid by pressing (STOP/EJECT).
2. Moisten a cotton bud with isopropyl alcohol or special head cleaning fluid. Gently rub the face of play/record head and erase head. Also clean the capstan and pinch roller.



## TROUBLESHOOTING GUIDE

Should this unit exhibit a problem, check the following before seeking service.

Symptom	Possible cause	Solution
<b>Radio</b>		
Noise or sound distorted on AM or FM broadcasts.	Station not tuned properly for AM or FM	Return the AM or FM broadcast station.
	<b>FM</b> : Rod antenna is not extended. <b>AM</b> : Unit is not positioned correctly.	Extend rod antenna. Rotate unit until best reception is obtained.
FM STEREO indicator does not light	FM Signal not enough strong or the station is not in stereo broadcasting	Extend rod antenna or find another FM stereo station
AM or FM no sound	Function Selector is not at RADIO mode.	Set Function selector to RADIO.
	Volume at minimum	Increase Volume.
<b>Cassette Player</b>		
No sound	Function selector is not at TAPE mode	Set Function selector to TAPE.
	Volume at minimum	Increase Volume
Sound distorted.	Dirty head.	Clean the head.
Speed varies	Tape old or worn.	Replace the tape.
	Dirty roller and capstan.	Clean roller and capstan.

**Cassette Recorder**

Will not record.	Record protection tab removed.	Cover hole with tape.
Distorted sound on playback.	Defective tape or dirty tape head.	Replace tape or clean tape head.

**Compact Disc Player**

CD Player will not play.	Function Selector is not at CD mode.	Set Function Selector to CD.
	CD is not installed or installed incorrectly.	Insert CD with label side facing up.
CD skips while playing.	Disc is dirty or scratched.	Wipe disc with cloth or use another disc.
Disc is inserted but CD player skips over spot and will not play.	Disc inserted upside down.	Insert disc properly.
	Disc is dirty.	Clean disc.
	Disc is non-standard.	Use correct disc.

**SPECIFICATIONS**

**(Cassette Section)**

Playback: 4 tracks stereo  
 Recording: DC bias/Magnet erase  
 Tape Speed: 4.75cm/sec.  
 Fast forward and  
 Rewind time: Approx 170 sec.  
 (C-60 tape)

**(Radio Section)**

Tuning ranges: FM: 88 -108 MHz  
 AM: 540 -1600 kHz  
 Aerial: Built-in ferrite bar (AM)  
 telescopic rod aerial (FM)

**(CD Section)**

Channels : 2 channels  
 S/N ratio : 60dB  
 Wow & Flutter : Undetectable  
 Sampling frequency: 44.1KHz  
 Quantization : 16 bits linear/ch  
 Pick up light source : Semi-conductor laser

**(General)**

Power output: 40 Watts (P.M.P.O.)  
 Frequency response: 80-10,000Hz  
 AUX IN: 300mV  
 Speaker impedance: 8 ohms  
 Headphone impedance: 8-32 ohms  
 Power source: AC 230-240V 50Hz  
 DC 12V (8 x "C" size batteries)  
 Power consumption: 12 Watts  
 Dimensions: 312(W) X 240(D) X 138(H)  
 Weight: 2 kg (not including batteries)

**ACCESSORY**

Instruction Manual 1pc  
 AUX IN Cable 1pc

Specifications are subject to change without notice.

Printed in China

172-0408PCD792-0SY

**SANYO**

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**SANYO Electric Co., Ltd.**  
**Made In China**