

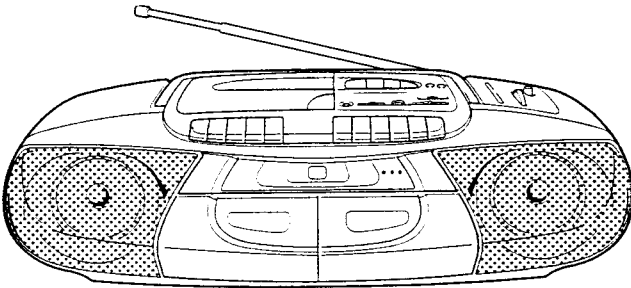
# SANYO

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INSTRUCTION MANUAL

## MCD-Z38F

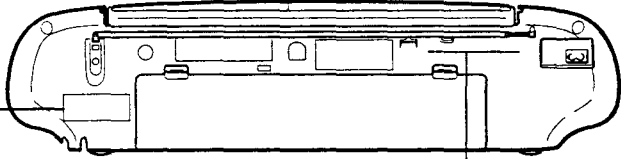
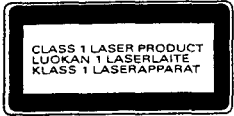
CD Portable Stereo/Radio  
Double Cassette Recorder



**CAUTION**

**USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OPERATING INSTRUCTIONS MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

**THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED PERSONNEL.**



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 SICHERHEITSVORREGELUNG ÜBERSBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.

VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

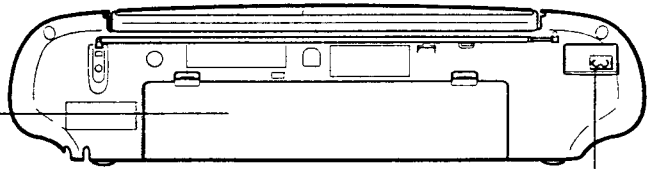


## FOR SAFE AND EFFICIENT OPERATION

- The apparatus shall not be exposed to dripping or splashing.
- Do not damage the mains lead.
- When not in use, disconnect the mains lead from the outlet. Grasp the plug, not the cord, 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 5°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 produce 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.

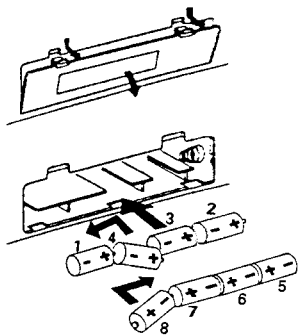
Do not install this equipment in a confined space, such as a book case or built-in cabinet.

# POWER SUPPLY

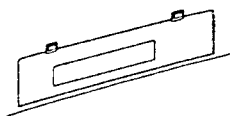


## Battery power operation

Install batteries.  
Observe + and - signs.



8 "D" size batteries



Replace lid.

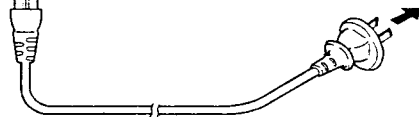
## AC power operation

Take out the cord and connect it.

AC INPUT



230 ~ 240 V AC,  
50Hz



### NOTES:

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

### CAUTION:

#### WHEN INSTALLING THE BATTERIES

To prevent leakage from the batteries, which is corrosive and can cause personal injury and damage to the unit, observe the following precautions:

1. The batteries must be installed correctly. Match the polarities (+ and - signs) on the batteries, to the polarities shown on the back of the unit.
2. Do not mix new batteries with old or used batteries.
3. Only use batteries of the same type and brand.

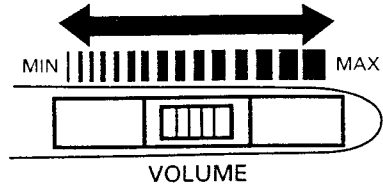
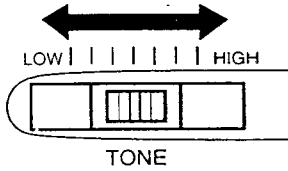
4. If the unit will not be used for an extended period of time, remove the batteries and store them in a cool place.
5. Carefully follow the battery manufacturer's instructions for proper use and disposal.
6. **DO NOT ALLOW YOUNG CHILDREN TO HANDLE BATTERIES.**

### NOTE:

*When the batteries have become discharged, they must be disposed of in a safe manner which complies with all applicable laws.*

# GENERAL OPERATION

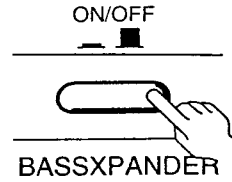
To control the sound.



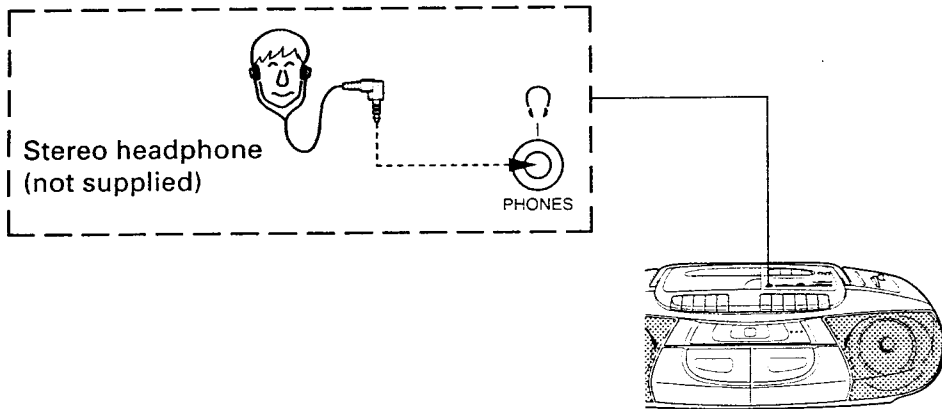
## Bass expander switch (BASSXPANDER)

ON: (Button In) - Increases the bass output level.

OFF: (Button Out) - For normal bass output level.

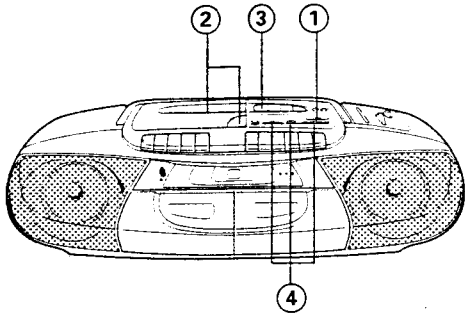


## Using headphones

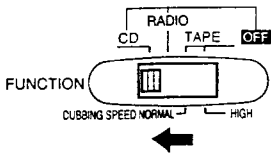


# COMPACT DISC OPERATION

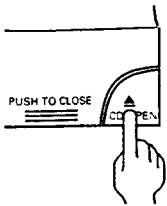
## CD PLAY



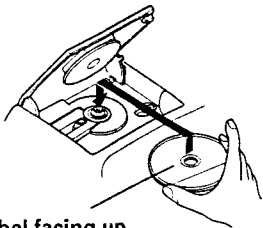
① To CD.



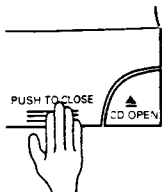
②



Push down.



Label facing up



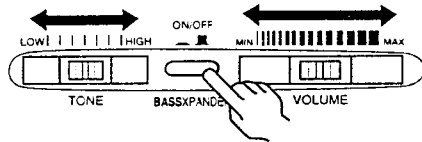
Push down.

③ Press PLAY/PAUSE.



The PLAY indicator will light.

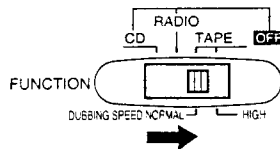
④ To control the sound.



STOP CLEAR



Press STOP/CLEAR.



To OFF (TAPE).

CD TRACK NO.



The CD TRACK NO. display will show the total number of tracks on the disc as shown below.

TRACKS	CD TRACK NO. display
1 ~ 19	1 ~ 19
More than 19	"0" Flashes

Table 1

**NOTES:**

- If a disc is loaded upside down, or if no disc is loaded, the CD player will not operate.
- Opening the CD compartment lid while a CD is playing could scratch the disc. Always press the STOP/CLEAR button and wait for the disc to stop rotating before opening the CD compartment lid.

**IMPORTANT NOTE**

If an abnormal display indication, or an operating problem occurs, disconnect the mains lead. Remove the D batteries (see page 2). Wait at least 5 seconds, then reconnect the mains lead. Reinstall the D batteries.

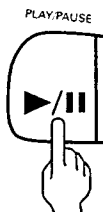
**Compact discs**

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

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

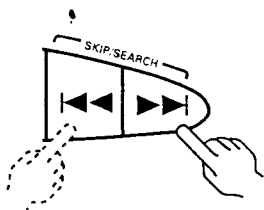


- Only discs bearing the logo as shown can be played in this unit.
- Always place the compact disc in the CD compartment with the label facing up. Compact discs can be played on only one side.
- Fingerprints and dust should be carefully wiped off the disc's signal surface (opposite the label side) with a soft cloth. Gently wipe in a straight motion from the inside to the outside of the disc.
- Discs should be returned to their cases 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 surfaces of the disc.
- Do not use cleaners or antistatic sprays on discs, such as those used for phonograph records.



#### PAUSE MODE

1. Press the PLAY/PAUSE button during play. Play will temporarily stop, and the PLAY indicator will flash.
2. Press the PLAY/PAUSE button again to resume play. The PLAY indicator will remain ON.



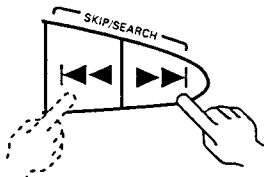
Press and hold down during playback

#### TRACK SEARCH

1. In the play mode, press and hold down the  $\lll$  or  $\ggg$  SKIP/SEARCH button to lower the volume level and quickly advance or return to any part of the disc. The CD TRACK NO. display will flash.
2. Release the  $\lll$  or  $\ggg$  SKIP/SEARCH button to return the volume to normal level and resume play.

#### NOTE:

If the  $\lll$  or  $\ggg$  SKIP/SEARCH button is pressed during the PAUSE mode, no sound will be heard, and the PAUSE mode will continue when the button is released.



Press and release repeatedly

#### TRACK SKIP

1. Press and release the  $\lll$  or  $\ggg$  SKIP/SEARCH button repeatedly during play to quickly locate the beginning of a track.
2. The CD TRACK NO. display will show the number of the selected track. Play will continue from the beginning of the new track.

#### NOTE:

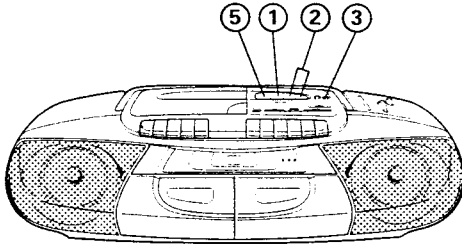
If the  $\lll$  or  $\ggg$  SKIP/SEARCH button is pressed while the unit is in the PAUSE mode, the unit will remain in the PAUSE mode when the button is released.



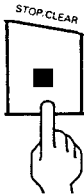
## PROGRAMMED PLAY

With programmed play, up to 16 tracks on a disc can be memorized and played in any order.

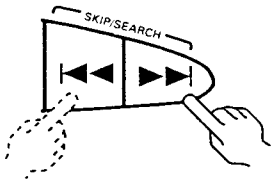
### TO PROGRAM



#### ① Press STOP/CLEAR.



#### ② Press <◀◀ or ▶▶>.



#### ③ Press MEMORY.

MEMORY



- The MEMORY indicator will light on the unit.

#### ④ Repeat 2 and 3 to memorize additional tracks.

### Checking the program

Press MEMORY.

MEMORY



To view the memorized track numbers, in the order they were entered.

### TO BEGIN PROGRAM PLAY

#### ⑤ Press PLAY/PAUSE.

PLAY/PAUSE

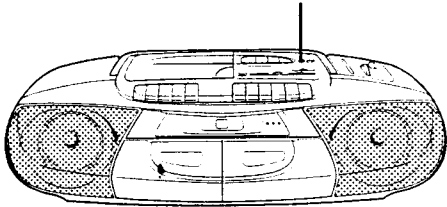


Programmed play will begin.

- To cancel programmed play, press STOP/CLEAR twice.  
The MEMORY indicator will go off.

## REPEAT PLAY

REPEAT



**Press REPEAT before or during play (or programmed play).**

REPEAT



**To cancel repeat play**

**Press REPEAT again.**

REPEAT



**The REPEAT indicator will go off.**

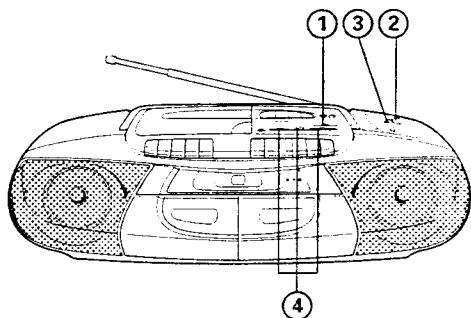
CD TRACK NO.



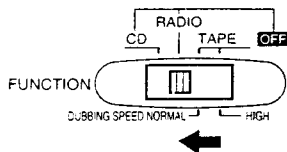
PLAY REPEAT MEMORY

- The REPEAT indicator will light on the unit.

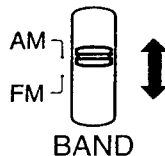
# RADIO OPERATION



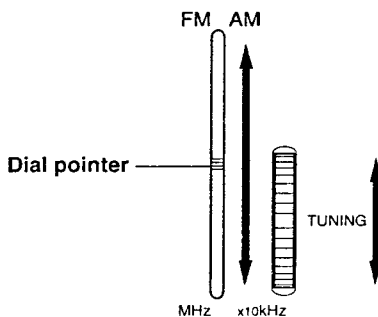
## ① To RADIO.



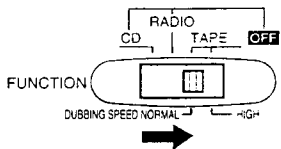
## ② To AM or FM.



## ③ Tune in a station.

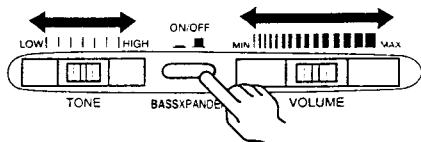


NOTE:  
The unit will automatically switch to stereo when an FM stereo broadcast is received.



To OFF (TAPE).

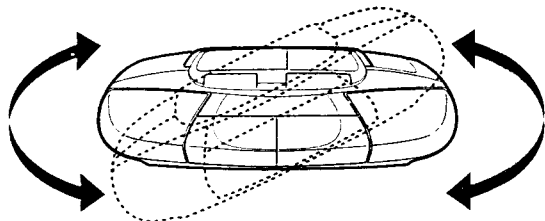
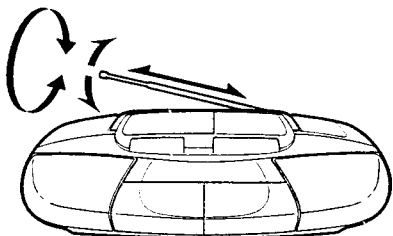
## ④ To control the sound.



# To improve reception

FM - Extend and change position.

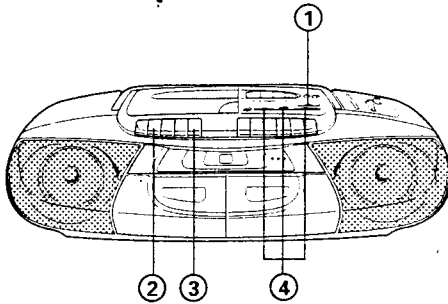
AM - Rotate unit.



# CASSETTE TAPE OPERATION

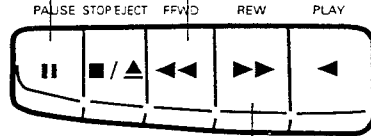
## PLAYBACK

### A) PLAYBACK (Deck A or Deck B)



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

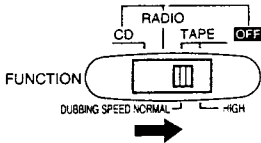
To quickly wind the tape forward



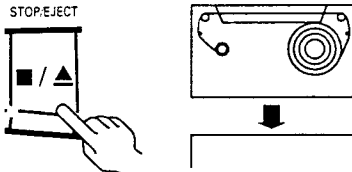
Deck A

To quickly wind the tape backward

### ① To TAPE.

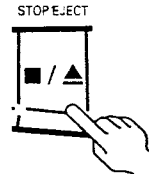


### ② Press STOP/EJECT. Insert cassette.



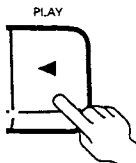
### Full automatic stop

This unit has a full-release stop system to protect the tape and prevent pinch roller damage. When the end of the tape is reached in Playback, Recording, Fast forward or Rewind, the tape mechanism will automatically stop.

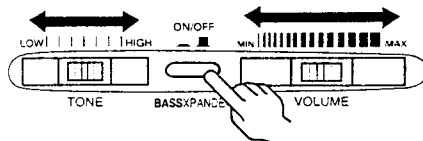


Press STOP/EJECT once to stop the tape. Press again to remove the cassette.

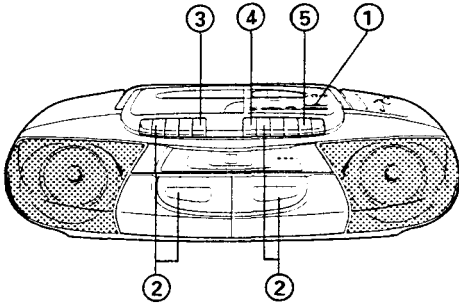
### ③ Press PLAY.



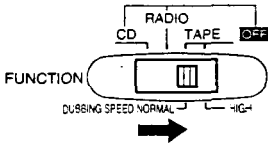
### ④ To control the sound.



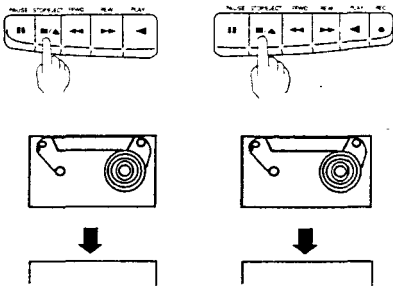
## B) Continuous playback (Deck A to Deck B)



### ① To TAPE.



### ② Press both STOP/EJECTs. Insert cassettes.



### ③ Press PLAY on Deck A.



Play begins in Deck A.

### ④ Press PAUSE on Deck B.



### ⑤ Press PLAY on Deck B.



Deck B is in standby mode.

When the end of the tape in Deck A is reached, the tape will stop and Deck B playback will begin. When the end of the tape in Deck B is reached, the tape will stop.

### CAUTION:

While playing or recording with one deck, do not press the Fast Forward (FFWD) or Rewind (REW) button of the other deck, or the sound quality may deteriorate.

## RECORDING (Deck B)

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

## WARNING

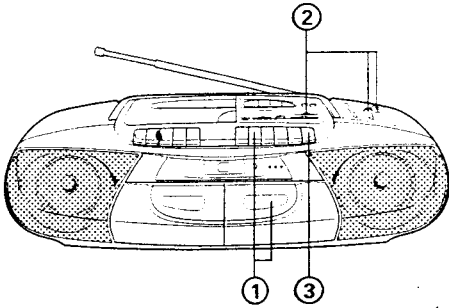
UNAUTHORIZED RECORDING OF COPYRIGHTED MATERIAL MAY VIOLATE APPLICABLE COPYRIGHT LAWS. SANYO ASSUMES NO RESPONSIBILITY FOR UNAUTHORIZED DUPLICATION, USE OR OTHER ACTS WHICH INFRINGE UPON THE RIGHTS OF COPYRIGHT OWNERS.

### Automatic Level Control (ALC) recording

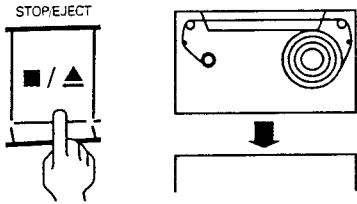
The ALC circuit adjusts the recording input level automatically. No adjustments are required.

### Beat cancel switch (BEAT CANCEL, on the bottom of the unit)

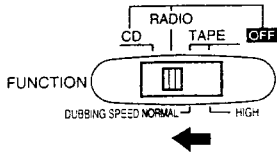
When recording a radio program, an irritating "whistling" sound may sometimes be heard. If this occurs, select position 1, 2 or 3. Leave the switch in the position that gives the best results.



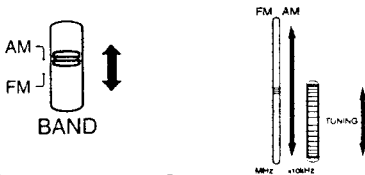
### ① Press STOP/EJECT. Insert cassette.



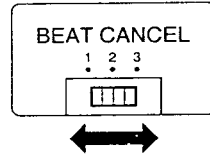
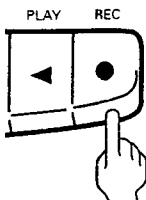
### ② To RADIO.



### To AM or FM. Tune in a station.

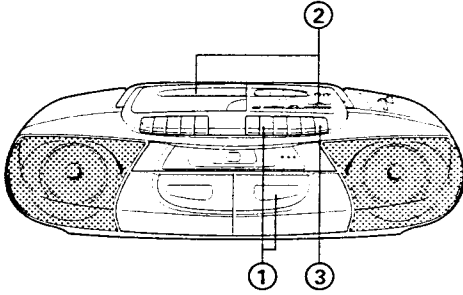


### ③ Press REC.

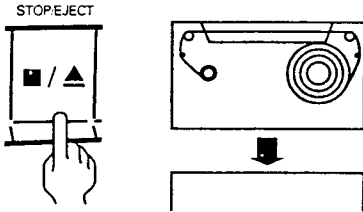


Press STOP/EJECT once to stop the tape. Press again to remove the cassette.

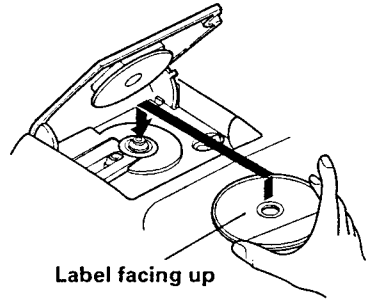
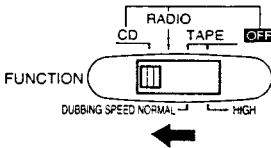
## B) Recording from a compact disc



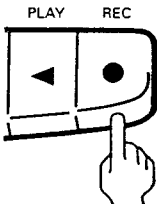
### ① Press STOP/EJECT. Insert cassette.



### ② To CD.



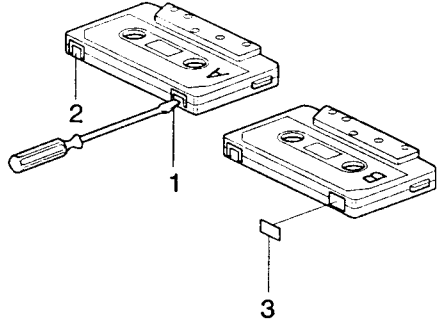
### ③ Press REC.



**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 REC button cannot be depressed. To record or erase a protected cassette, cover the tab openings with adhesive tape (3).



#### **Synchronous recording (CD-TAPE SYNCHRO DUBBING)**

This recording system starts disc play and cassette recording at the same time.

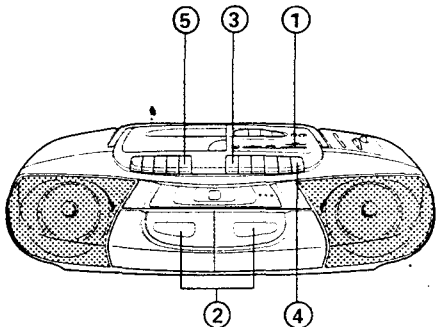
When the REC button is pressed, recording will start at the beginning of track number 1 of the disc.

If a program has been entered, recording will start from the beginning of the first programmed track.

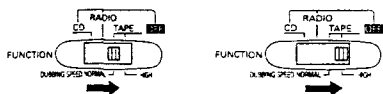
# DUBBING (Deck A to Deck B)

## Synchro dubbing

Copying recorded material from the cassette in Deck A onto the cassette in Deck B.



① Set the **FUNCTION** switch to **NORMAL** or **HIGH**.



### NORMAL:

For normal speed dubbing while listening to the tape.

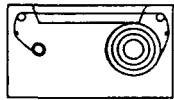
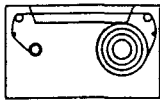
### HIGH:

For high-speed dubbing (approximately twice the normal dubbing speed). Set the **VOLUME** control to **MIN**.

② Insert cassette tapes.

prerecorded tape

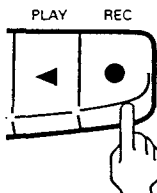
tape for recording



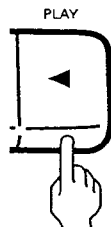
③ Press **PAUSE** on Deck B.



④ Press **REC**.

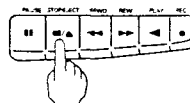
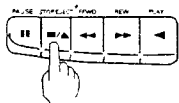


⑤ Press **PLAY** on Deck A.



### NOTE:

Do not change the dubbing speed during the dubbing operation.



### Automatic stop in dubbing operation

1. The Deck A cassette is longer than the Deck B cassette:  
After the Deck B cassette stops, Deck A playback will continue at normal speed.
2. The Deck B cassette is longer than the Deck A cassette:  
After the Deck A cassette stops, Deck B will be set to the erase mode.  
Press the Deck B **STOP/EJECT** button immediately when the Deck A cassette stops.



# MAINTENANCE

## Cleaning the unit

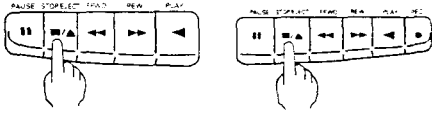
Clean the outside of the unit with a clean soft cloth, moistened with lukewarm water. Do not use solvents such as benzene or thinner. These will permanently damage the unit's finish.

## Cleaning the 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

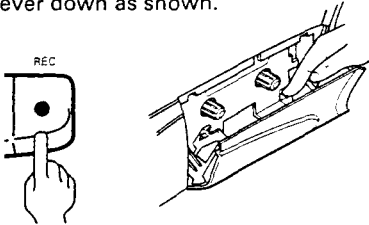
1. Press both STOP/EJECT buttons to open both cassette compartment lids.



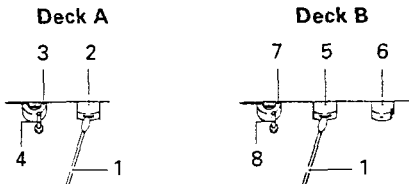
2. Press the PLAY button of Deck A.



3. Press the REC button of Deck B while holding the lever down as shown.

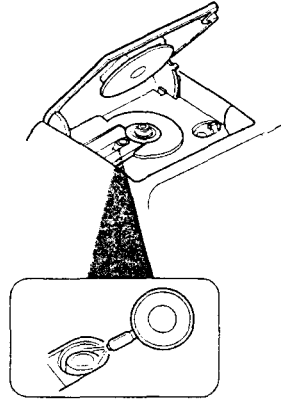


4. Moisten a cotton swab (1) with Isopropyl alcohol or special head cleaning fluid. Gently rub the face of each head (2, 5, 6) with alcohol. Also clean the capstans (4, 8) and pinch rollers (3, 7).



## 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.

# SPECIFICATIONS

## CASSETTE SECTION)

Recording system:  
AC bias, 4-track stereo

Erasing system:  
Magnet erase

Tape speed:  
4.75 cm/sec.

Fast forward and rewind time:  
120 sec. (C-60 tape)

Frequency response:  
80 ~ 12,000 Hz (Normal tape)

## CD SECTION)

Channels:  
2 channels

S/N ratio:  
73 dB

Jwow & Flutter:  
undetectable

Sampling frequency:  
44.1 kHz

Quantization:  
16 bits linear/ch

Pick up light source:  
Semi-conductor laser

Pick up wave length:  
790 nm

Laser output:  
Continuous wave max. 0.6 mW

## (RADIO SECTION)

Tuning ranges:  
AM: 525 – 1,710 kHz  
FM: 88 – 108 MHz

Aerials:  
Built-in ferrite bar and telescopic aerials

## (GENERAL)

Output power:  
4.0 W/ch (DC max.)

Speaker:  
10 cm x 2, 4 ohms

Terminal impedance:  
PHONES: 32 ohms

Power source:  
AC: 230 ~ 240 V, 50 Hz  
DC: 12 V (8 "D" size batteries)

Dimensions:  
530 x 150 x 225 mm (W x H x D)

Weight (approx.):  
4.5 kg including batteries

Specifications subject to change without notice.



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Printed in Malaysia