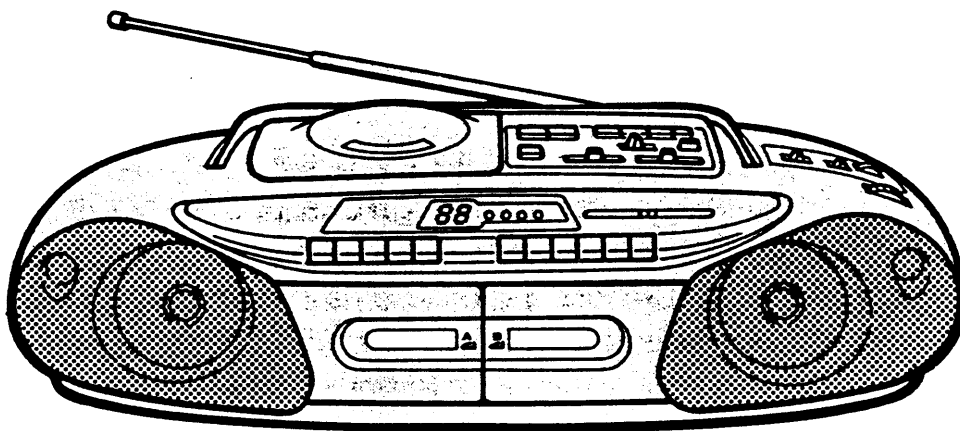


MCD-Z22L

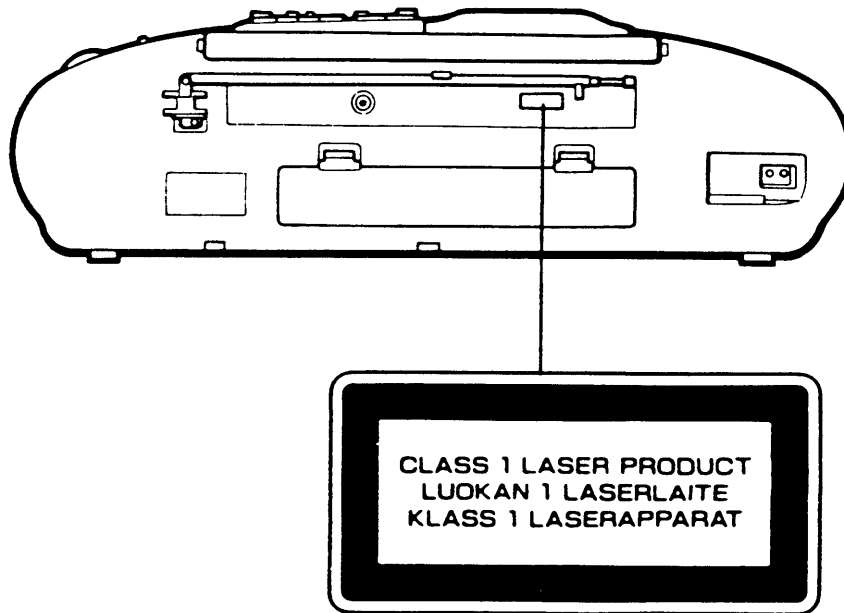
Portable CD/Stereo Radio Double Cassette Recorder



CAUTION

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

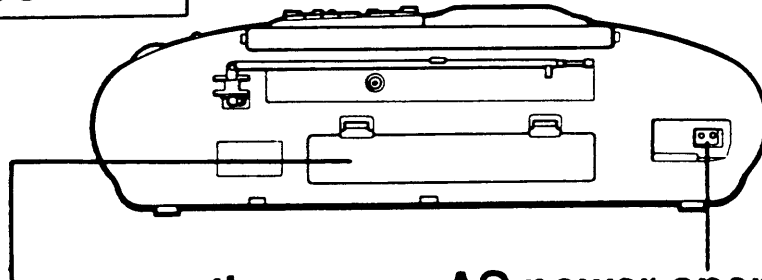
REFER ALL SERVICING TO QUALIFIED PERSONNEL.



FOR SAFE AND EFFICIENT OPERATION

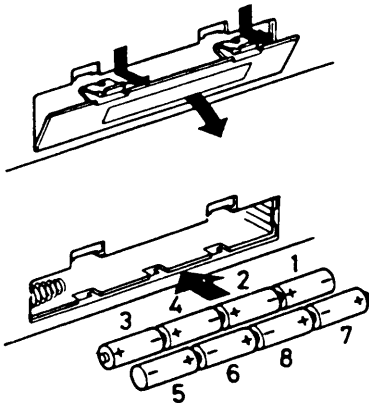
- Do not damage the mains lead.
- When not in use, disconnect the mains lead from the outlet. Grasp the plug, not the lead, when disconnecting the unit.
- If water should enter the unit, electrical shock or a malfunction may result. Use in an area where there is low humidity and little dust.
- Do not disassemble or alter the unit in any way.
- Do not use the unit in areas where extremes in temperature occur (below 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.
- The apparatus shall not be exposed to dripping or splashing.

POWER SUPPLY

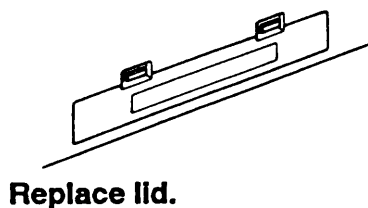


Battery power operation

Install batteries. Observe + and - signs.



8 "HP2" size batteries



Replace lid.

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.

AC power operation

Connect one end of the AC mains lead to the AC INPUT socket and the other end to an AC 240 V, 50 Hz outlet.

NOTE:

When the AC mains lead is connected to the unit, the installed batteries will be automatically disconnected.

IMPORTANT


If the plug supplied with this equipment is not suitable for the socket outlets in your home it should be cut off and replaced with the correct type.

Disposal of Plug

If the non rewirable plug is to be cut off, the removed plug should be disposed of carefully as there is a shock hazard should the plug be inserted into a live socket.

Replacing Fuse

The detachable fuse cover must be replaced after changing the fuse.

Only a 3A fuse should be used and should comply with BS1362 and should carry the ASTA mark .

The wires in the mains lead are coloured in accordance with the following code:

Blue	Neutral
Brown	Live

The wires in the mains lead must be connected to the terminals in the plug as follows:

Wire colour	Plug terminal marking
Blue	N or Black or Blue
Brown	L or Red or Brown

Do not connect either wire to the earth terminal. If the mains plug contains a fuse this should be 3A, if a plug without a fuse is used the distribution board fuse should not be greater than 5A.

- Disconnect the mains plug from the supply socket when not in use. Do not remove the back cover with mains connected.

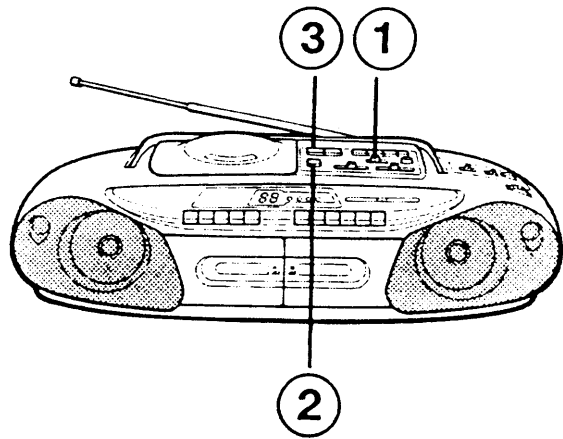
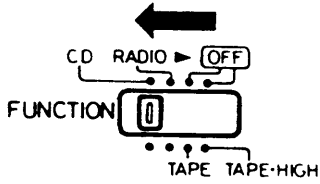
- The unit is not disconnected from the mains unless it is unplugged from the AC wall outlet.

COMPACT DISC OPERATION

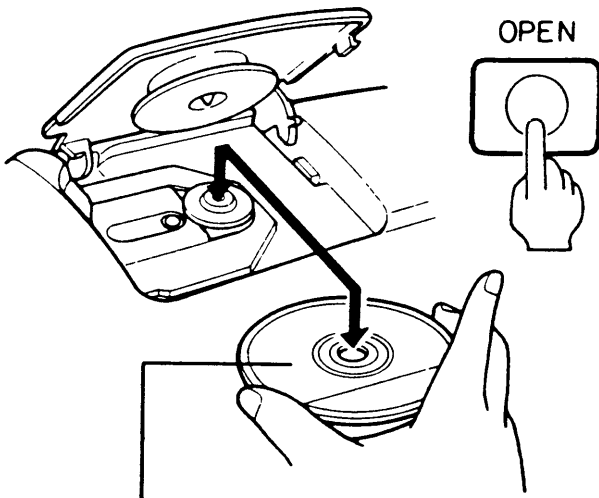
CD PLAY

NORMAL PLAY

① To CD.



② Press OPEN.

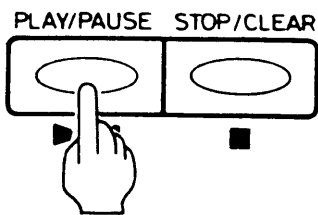


Label facing up



Push down.

③ Press PLAY/PAUSE.



PLAY +20



The CD PLAY indicator will light.

The TRACK NO. display and +20 Indicator will show the total number of tracks on the disc as shown below.

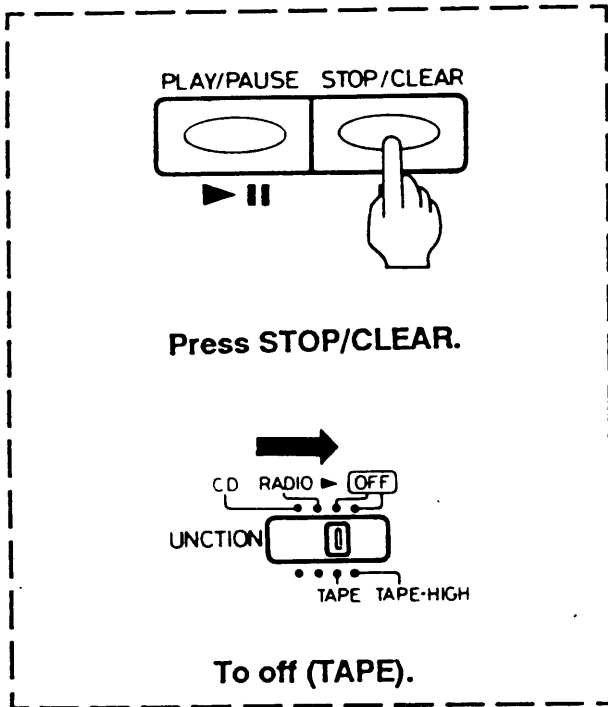
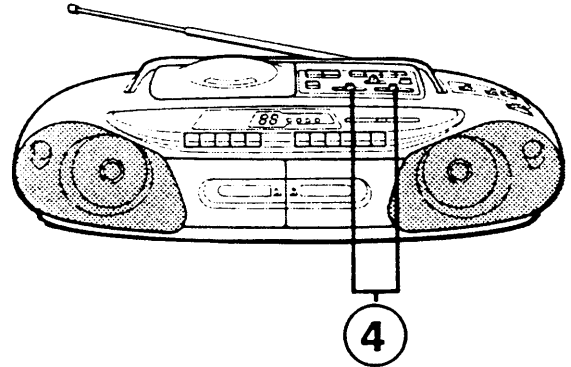
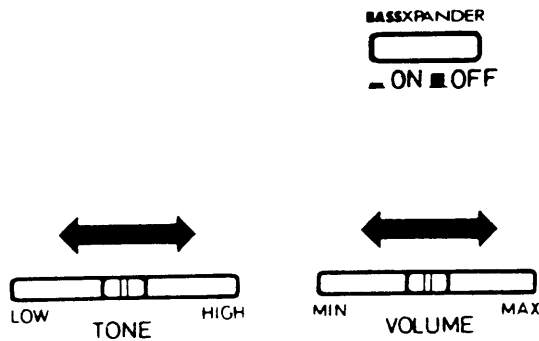
TRACKS	TRACK NO. display	+20 indicator
1 ~ 19	1 ~ 19	Off
20	0	On
21 ~ 39	1 ~ 19	On
More than 39	"0" Flashes	Off

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.

④ To control the sound.



Compact discs

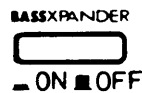
- Both 3-inch and 5-inch discs can be played in this unit.

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.



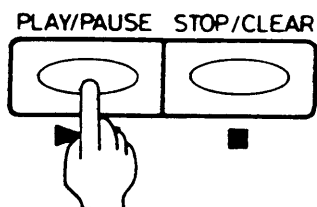
- Always place the compact disc in the CD compartment with the label facing up. Compact discs can be played on only one side.
- Fingerprints and dust should be carefully wiped off the disc's signal surface (opposite the label side) with a soft cloth. Gently wipe in a straight motion from the inside to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



BASSXPANDER switch

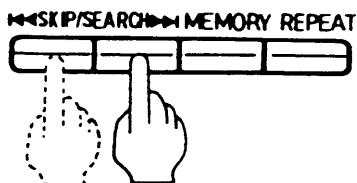
ON: (Button In) - Increases the bass output level.

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



PAUSE MODE

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



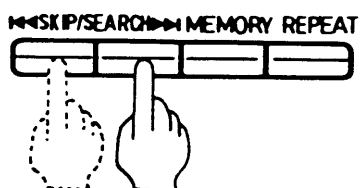
Press and hold down during play

TRACK SEARCH

1. In the play mode, press and hold down the "▶▶" or "◀◀" SKIP/SEARCH button to lower the volume level and quickly advance or return to any part of the disc. The TRACK NO. display (and the +20 indicator if the disc has more than 19 tracks) will flash.
2. Release the "▶▶" or "◀◀" SKIP/SEARCH button to return the volume to normal level and resume play.

NOTE:

If the "▶▶" or "◀◀" 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.



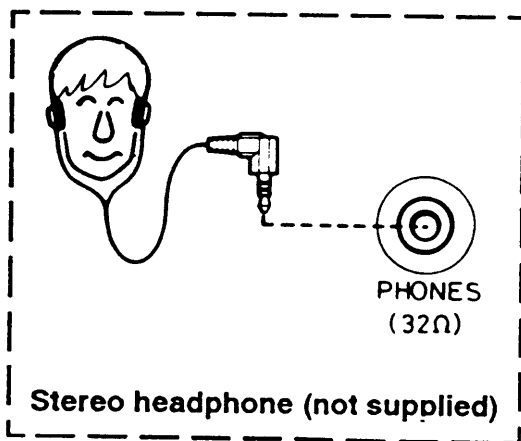
Press and release repeatedly

TRACK SKIP

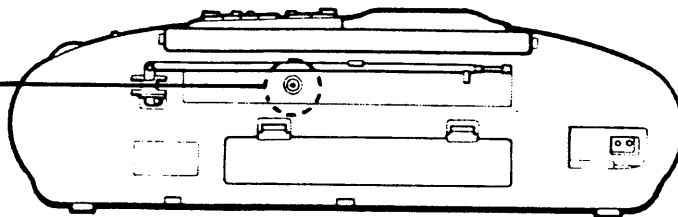
1. Press and release the "▶▶" or "◀◀" SKIP/SEARCH button repeatedly during play, to quickly locate the beginning of a track.
2. The TRACK NO. display and +20 indicator will show the number of the selected track. Play will continue from the beginning of the new track.

NOTE:

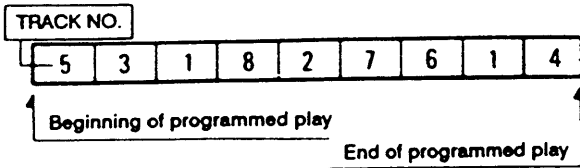
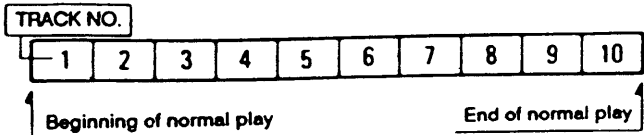
If the "▶▶" or "◀◀" SKIP/SEARCH button is pressed while the unit is in the PAUSE mode, the unit will remain in the PAUSE mode when the button is released.



Using headphones



PROGRAMMED PLAY

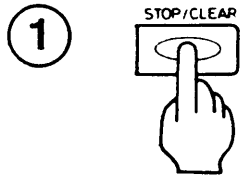


With programmed play, up to 16 tracks on a disc can be memorized and played in any order. (The TRACK NO. display and TRACK NO. +20 indicator will show the track number. Refer to Table 1.)

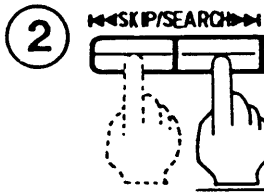
In this example, tracks 1-8 on a 10-track disc are entered into the unit's programme memory, for play in the order shown on the left.

TO PROGRAMME

① Press STOP/CLEAR

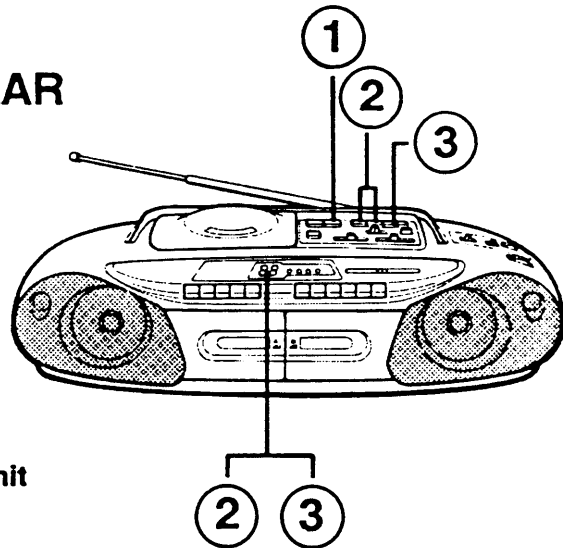


② Press << or >>



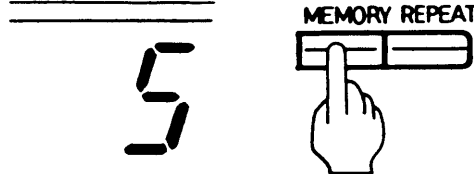
Display on the unit

5



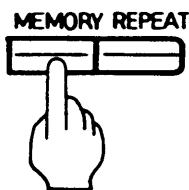
③ MEMORY REPEAT

3



Repeat steps 2 and 3 to memorize tracks 3, 1, 8, 2, 7, 6, 1 and 4.
- PROGRAM Indicator will light on the unit

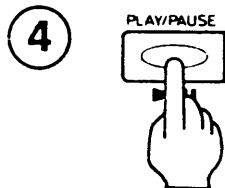
Checking the programme



Press MEMORY.

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

TO BEGIN PROGRAMME PLAY



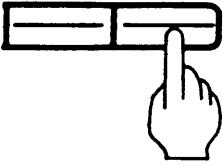
Programmed play will begin.

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

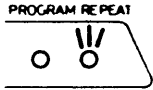
REPEAT PLAY

During normal play or before pressing PLAY/PAUSE.

MEMORY REPEAT



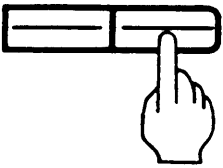
Press REPEAT



- REPEAT Indicator will light on the unit.

During programmed play or before programmed play

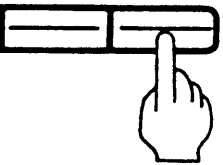
MEMORY REPEAT



Press REPEAT

To cancel repeat play

MEMORY REPEAT



Press REPEAT again

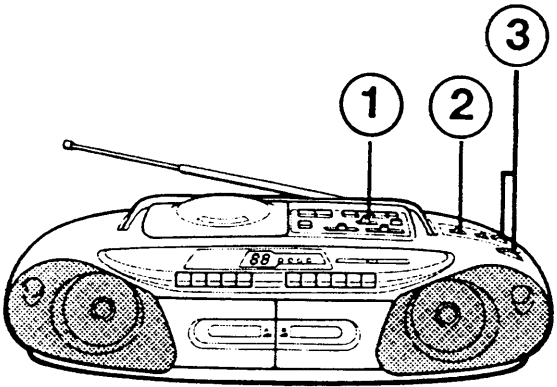
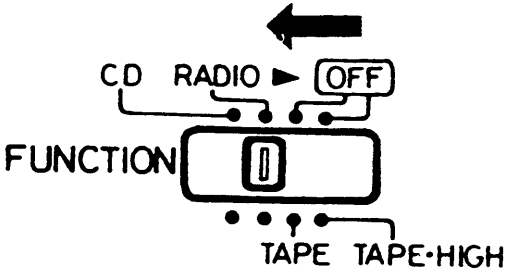
- REPEAT Indicator will go off.

IMPORTANT NOTE

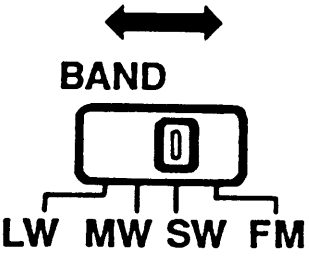
If an abnormal display indication or operating problem occurs, disconnect the mains lead. Remove the "HP2" batteries (see page 2). Wait at least 5 seconds, then reconnect the mains lead. Reinstall the "HP2" batteries.

RADIO OPERATION

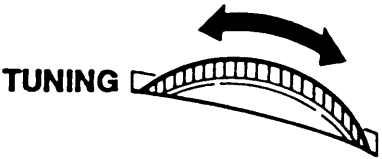
① To RADIO.



② Select a band.



③ Tune in a station.

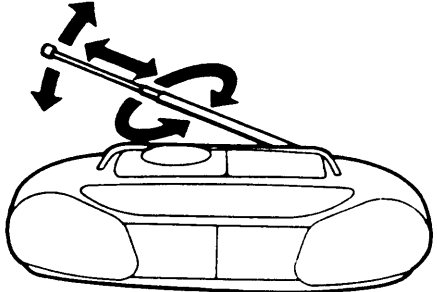


For SW reception only.

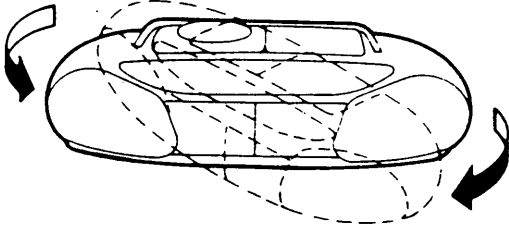


To improve reception

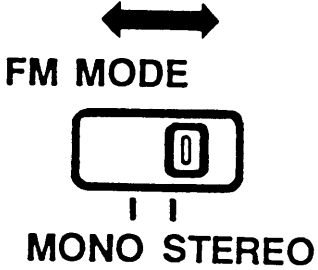
FM - Extend and change position.
SW - Pull out in vertical position.



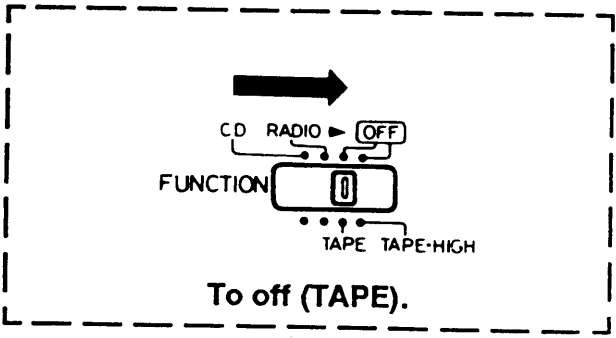
LW/MW - Rotate unit.



FM mode switch



STEREO: For FM stereo broadcasts.
MONO: For weak (noisy) FM stereo broadcasts.

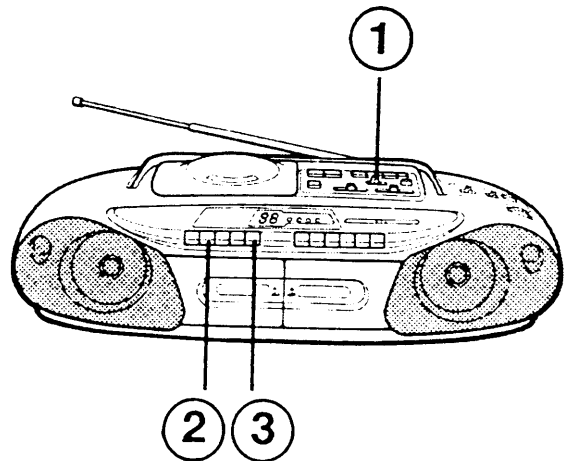
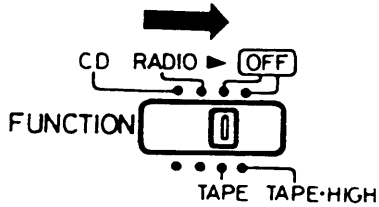


CASSETTE TAPE OPERATION

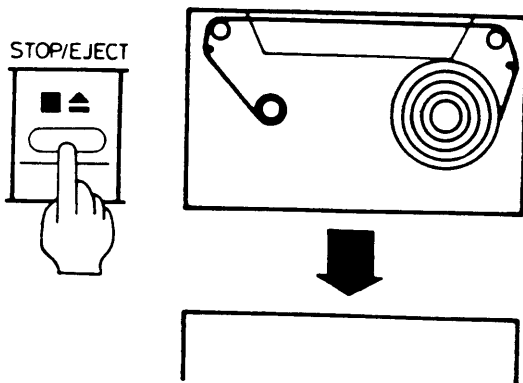
PLAYBACK

A) Playback
(Deck A or Deck B)

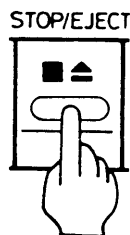
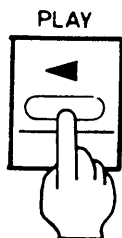
① To TAPE.



② Press STOP/EJECT.
Insert cassette.



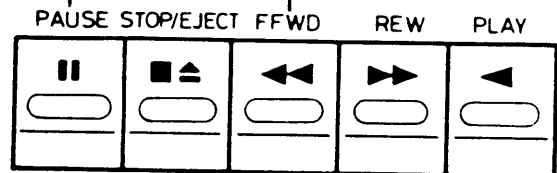
③ Press PLAY.



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

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

To quickly wind the tape forward



Deck A

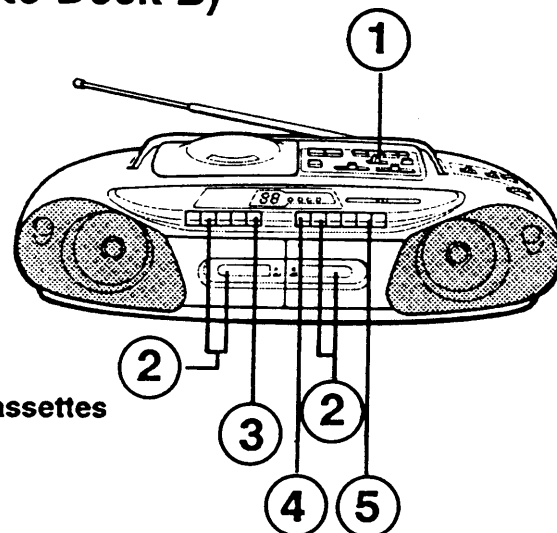
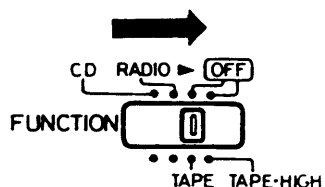
To quickly wind the tape backward

Full automatic stop

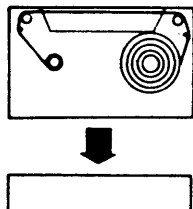
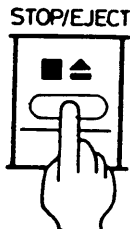
This unit has a full-release stop system, to protect the tape and prevent pinch roller damage. When the end of the tape is reached in Playback, Recording, Fast forward or Re-wind, the tape mechanism will automatically stop.

B) Continuous playback (Deck A to Deck B)

① To TAPE.

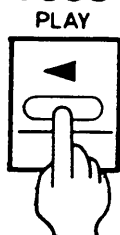


② Press both **STOP/EJECTS**



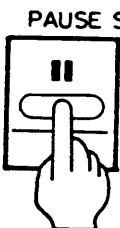
Insert cassettes

③ Press **PLAY** on Deck A

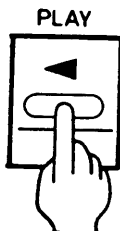


Play begins in Deck A.

④ Press **PAUSE** on Deck B



⑤ Press **PLAY** on Deck B



Deck B is standby mode.

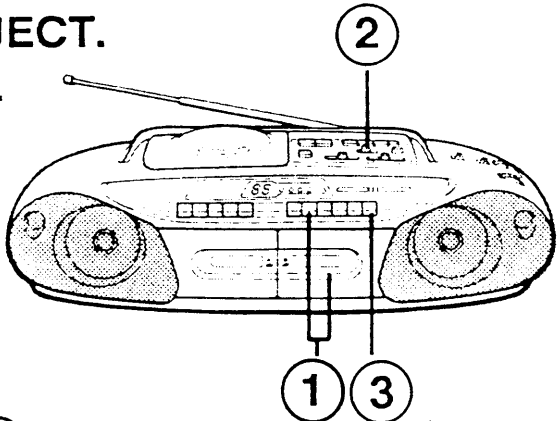
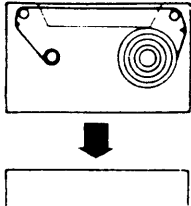
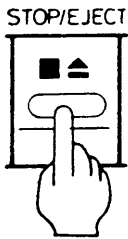
⑥ When the end of the tape in Deck A is reached, the tape will stop and Deck B playback will begin. When the end of the tape in Deck B is reached, the tape will stop.

CAUTION:

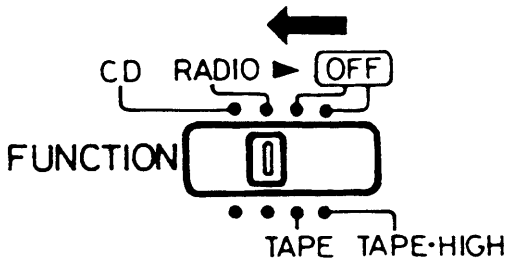
While playing or recording with one deck, do not press the Fast Forward (FFWD) or Rewind (REW) button of the other deck, or the sound quality may deteriorate.

RECORDING (Deck B)

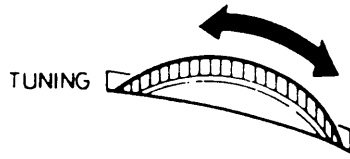
① Press STOP/EJECT.
Insert cassette.



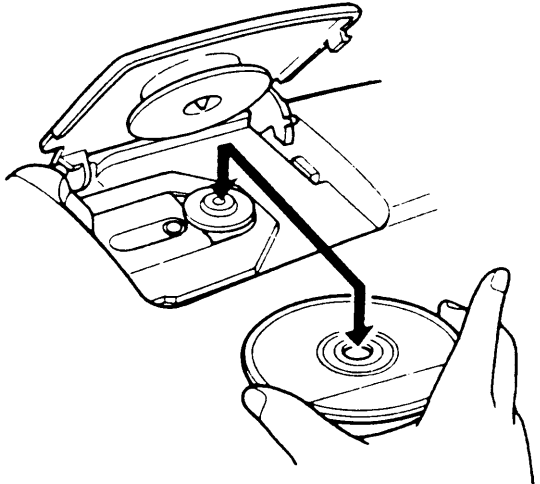
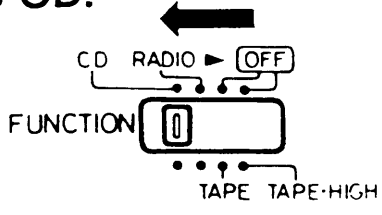
② To RADIO



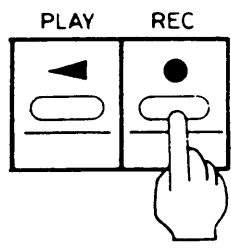
Select a band. Tune in a station.



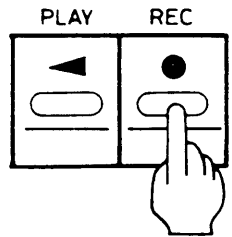
② To CD.



③ Press REC.



③ Press REC.



Also disc starts at the same time.

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

Automatic Level Control (ALC) recording

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

Synchronous recording (CD-TAPE SYNCHRONOUS DUBBING)

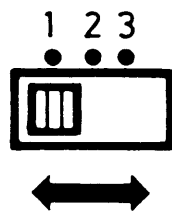
This recording system starts disc play and cassette recording at the same time.

When the REC button is pressed, recording will start at the beginning of TRACK NO.1 of the disc. If a program has been entered, recording will start from the beginning of the first programmed track.

WARNING

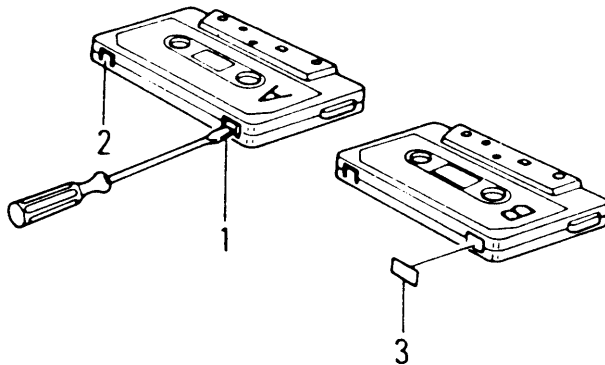
Recording copyright material without permission of the copyright owners is usually an infringement. If you wish to re-record copyright material, permission from the copyright owner is necessary. SANYO does not approve of, and cannot be held responsible for, any unlawful use of this machine.

BEAT CANCEL



BEAT CANCEL switch (on the bottom of the unit)

When recording a radio programme, 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.



Safeguards against accidental erasure

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

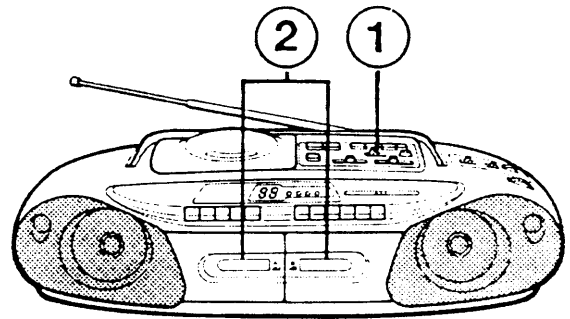
NOTE:

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).

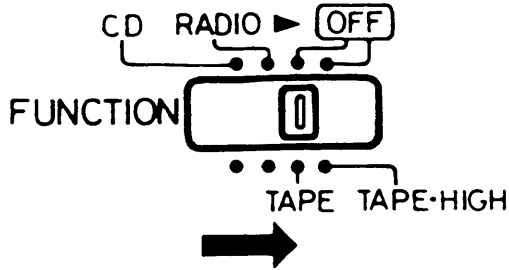
DUBBING (Deck A to Deck B)

Preparation

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



1 Set the **FUNCTION** switch to **TAPE** or **TAPE-HIGH**.



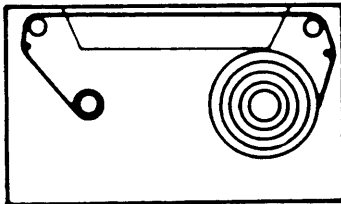
TAPE:

For normal speed dubbing while listening to the tape.

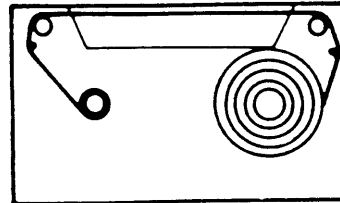
TAPE-HIGH:

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

2 Insert cassette tapes.



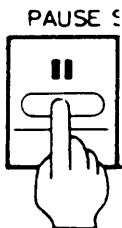
Deck A
prerecorded tape



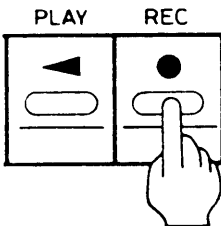
Deck B
tape for recording

Synchro dubbing

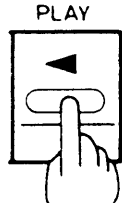
1 Press **PAUSE** on Deck B.



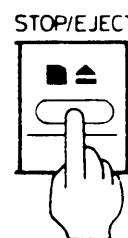
2 Press **REC.**



3 Press **PLAY** on Deck A



4 Press both **STOP/EJECTs**.



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

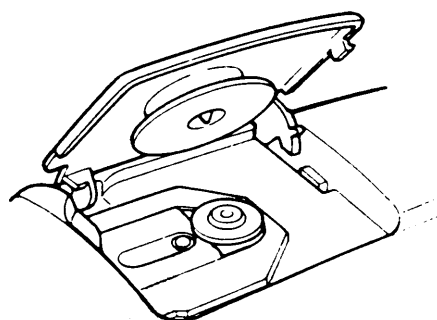
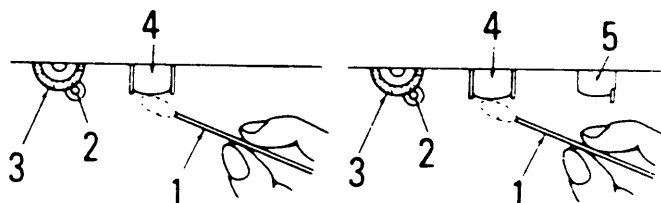
Clean the outside of the unit with a clean soft cloth, moistened with lukewarm water. Do not use solvents such as benzine or thinner. These will permanently damage the units finish.

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

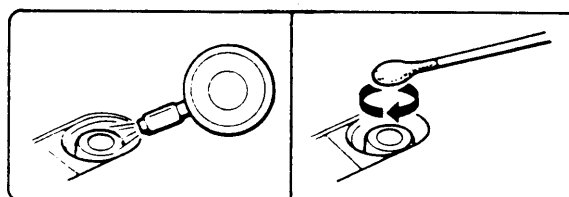
1. Press the STOP/EJECT button to open the cassette compartment lid.
2. Moisten a cotton swab (1) with Isopropyl alcohol or special head cleaning fluid. Gently rub the face of each head (4, 5) with alcohol. Also clean the capstan (2) and pinch roller (3).



Cleaning the CD player lens

If dust is on the lens, blow it off using a camera lens blower. (Please consult your dealer.)

The lens should never be touched. However, if a finger-print does get on the lens, wipe it gently using a cotton swab moistened with Isopropyl alcohol. (Please consult your dealer.)



CAUTION:

Do not apply excessive pressure; you might damage the lens.
Apply alcohol sparingly. Only a small amount is needed. If an excessive amount of alcohol is used, it may enter and damage the unit.

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.

GUARANTEE TO CUSTOMER

Sanyo U.K. Sales Ltd. (the Company) guarantees to the initial retail purchaser that if this equipment is or becomes defective and that, in the opinion of the Company, the defect is due to faulty material or workmanship the Company will, for a period of 12 calendar months from the date of sale to the original purchaser repair or replace, at its sole option, free of charge, any such defective component part of the equipment, always provided that: -

1. The equipment has at all times been used in accordance with the operating instructions issued by the Company, and has not been connected to an electrical mains supply for which it has not been adjusted.
2. Accidental damage, or damage caused by negligence or misuse by the user, including leakage from exhausted batteries, is specifically excluded.
3. Unauthorised repairs, or any modification to the equipment which has not been expressly approved by the Company, shall render this guarantee null and void.
4. Failure due to fair wear and tear of any item, such as batteries, record playing styli, and tape recording, playback and erase heads is specifically excluded.

This guarantee is not transferable and is only applicable within the United Kingdom (and the Republic of Ireland). Nothing in this express guarantee affects the statutory rights available to the purchaser of this equipment.

Note: This guarantee supersedes any other form of guarantee that may inadvertently have been enclosed with or attached to the product. (August 1978).

Dear Customer

Thank you for buying Sanyo. This equipment should give you many years of pleasure and faithful service but in the event that a fault occurs, the following notes for your guidance may be helpful: -

1. PLEASE RETAIN YOUR PURCHASE RECEIPT WHICH WILL BE REQUIRED FOR SERVICE DURING GUARANTEE.
2. If your Sanyo equipment proves faulty during the period of guarantee, take it or send it back to the dealer who originally supplied it together with this guarantee and the proof of purchase. We have made arrangements with our approved dealers under which they will carry out in-guarantee service repairs on our behalf. In this way, we hope to reduce to a minimum the amount of time you will be without your equipment.
3. If for some reason it is impossible to return the equipment to the original supplier, please contact our Consumer Relations Department at the address below for further advice.
4. Should the equipment require servicing after the expiry of the guarantee period, take or send it to the original supplier or any other Sanyo dealer. He will be pleased to give you a quotation for the repair. If you are in any doubt about what to do, write to us at the address below or telephone:

**Consumer Relations Department,
Sanyo U.K. Sales Ltd.,
Sanyo House
Otterspool Way, Watford,
Hertfordshire WD2 8JX
Tel: Watford 246363**

R4

The Sanyo logo consists of the word "SANYO" in a bold, sans-serif font. The letter "Y" is stylized with several vertical lines of varying lengths passing through it, creating a distinctive graphic element.

SANYO Electric Co. Ltd

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