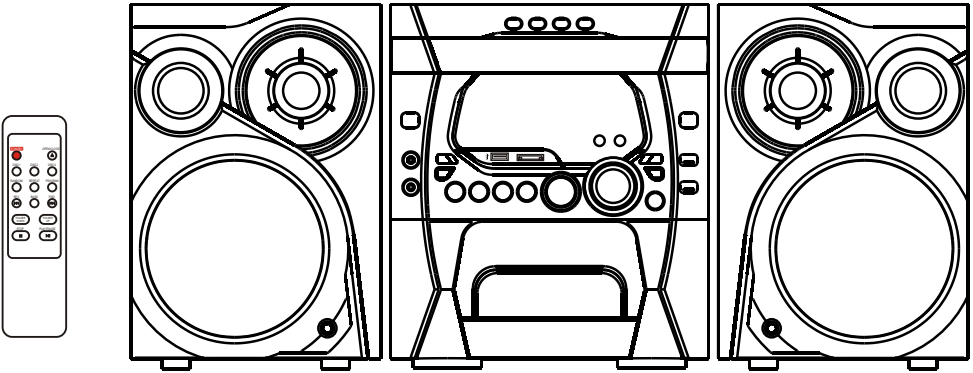




DC-E110

INSTRUCTION MANUAL

3 DISC CD MINI SYSTEM
(with CD MP3\USB\SD card PLAYER)



PRECAUTIONS

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



Explanation of Graphical Symbols:



To lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence or important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This compact disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the exterior.



CAUTION!



Invisible laser radiation when open and interlocks defeated. Avoid exposure to beam.

IMPORTANT SAFETY INSTRUCTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Warning

To prevent electric shock or injury, these safety instructions should be followed in the installation, use and servicing the unit.

Installation

Attachments - Do not use attachments not recommended by the unit manufacturer as they may result in the risk of fire, electric shock or injury to persons.

Water and Moisture - Do not use this unit near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Heat - Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).

Mounting surface - Place the unit on a flat, even surface.

Accessories - Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a car, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the unit. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

Portable cart - An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



PRECAUTIONS

Ventilation - The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm clearance from the rear and the top of the unit, and 5 cm from the each side. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the unit and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug or other similar surface. This unit should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

Object and Liquid Entry - Never push objects of any kind into this unit through the cabinet slots as they may touch dangerous voltage points or short-circuit parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

Electric Power

Power Source - This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. To operate unit on battery power, or other sources, refer to the operating instructions.

Grounding or Polarization - This unit is provided with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

Overloading - Do not overload wall outlets, extension cords, integral convenience receptacles as this can result in a risk of fire or electric shock.

Lightning

For added protection for this unit receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

Maintenance

Cleaning - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Damage Requiring Service

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

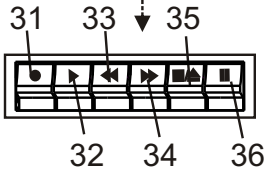
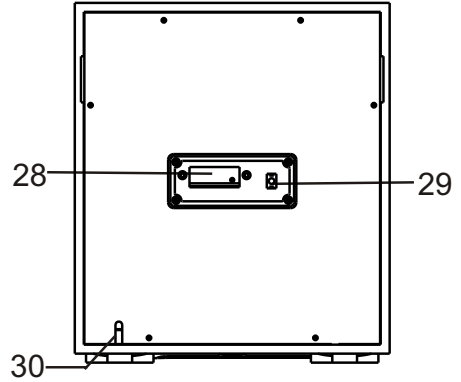
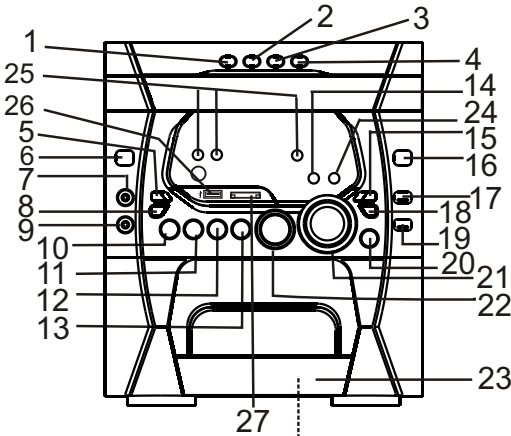
- When the power cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the unit.
- If the unit has been exposed to rain or water.
- If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to normal operation.
- If the unit has been dropped or the cabinet has been damaged.
- When the unit exhibits a distinct change in performance - this indicates a need for service.

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

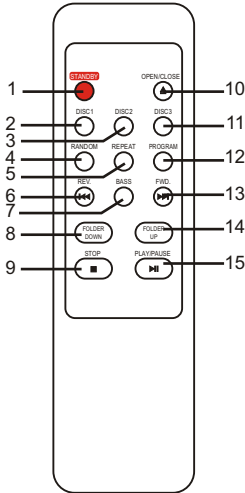
Safety Check - Upon the completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

CONTROLS



1. Disc1 Button
2. Disc2 Button
3. Disc3 Button
4. Disc select
5. Function Control
Slide the function switch to CD/USB/CARD, Tape or Radio, AUX as desired.
6. Standby/ On Button
Toggle between standby/ On mode.
7. AUX Jack
8. Bass Button
Press Bass Button to get a sound as desired.
9. Headphone Jack
For private listening, control low impedance 3.5mm stereo headphone to this jack.
10. Back Button
11. Next Button
12. Stop Button
Press Stop Button when want to end playing.
13. CD/USB/Card play/pause Button
14. Repeat Button
15. Band set Control
Adjust the Band Set to AM,FMST, as desired.
16. DISC EJECT
17. Hour Button
18. Clock Set Button
Repeatedly press Hour button or Min button To set present time when hold Clock Set.
19. Min Button
20. Program Button
21. Tuning Knob
Rotate the Tuning control to select a station As desired.
22. Volume Control
23. Deck Control .
24. MUTE Button
25. Standby,Bass FM ST indicator,
26. USB Socket
27. SD/MMC card slot.
28. Speakers Terminals
- Connect the speaker cord of the supplied front speakers here.
29. FM Terminals
- Extend the FM antenna fully for best reception.
30. AC Power Cord
31. Record
32. Play
33. Fast Rewind
34. Fast Forward
35. Stop/Eject
36. Pause

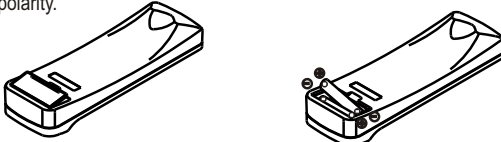
REMOTE CONTROL



1. Standby Button
2. Disc1 Button
3. Disc2 Button
4. RANDOM Button
5. REPEAT Button
6. Fast Rewind Button
7. Bass Button
8. The FOLDER DOWN Button
9. Stop Button
10. CD door OPEN/CLOSE
11. Disc3 Button
12. Program Button
13. Fast Forward Button
14. The FOLDER UP Button
15. The PLAY/PAUSE Button

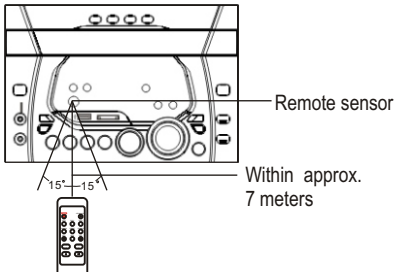
Battery Installation

Detach the battery compartment lid at the rear of the remote control and insert two "AAA" (UM-4) batteries (not included) with correct polarity.



- Replace the batteries with new ones when the operational distance between the remote control and main unit becomes significantly shorter.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- Do not dispose of batteries in fire, batteries may leak or explode.
- Remove the batteries if the unit is not going to be used for an extended period of time.
- The remote may not operate if it is used under intense sunlight, or if its line of sight is obstructed.

Remote control range



The buttons on the remote control perform similar functions to similarly marked buttons on the front panel.

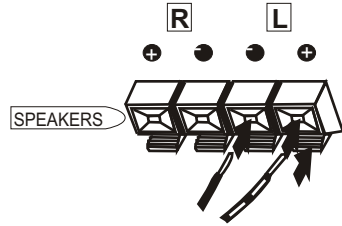
PREPARATIONS

Connection

Plug in the AC power cord to the AC power outlet after all other connections are made.

1 Connect the front speakers.

Connect the right front speaker to the SPEAKERS R terminals and place it on the right side of the unit. Connect the left to the SPEAKERS L terminals and place it on the left side. The speaker wire with the red stripe go to the ⊕ terminal.



2 Connect the AC power cord to an AC outlet.

When the AC power cord is connected to an AC outlet for the first time, clock "AM 12:00" (12 Hour Setting) flashes on display.

* Optional " 0:00" (24 Hour Setting)


- Do not short-circuit the ⊕ and ⊖ speaker cord leads.
- Do not leave objects easily affected by magnetism near the speakers.

GENERAL OPERATION

Adjusting the volume

Turn the VOLUME control to set the desire output level

Bass expander button

Press the BASSXPANDER button to  ON to enhance the bass sound

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.

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/USB/CARD.
2. Press the DISC EJECT button to open the CD tray. "OPEN" appears on the display.
3. Place the disc with the label facing up on the turntable. (You can place 2 disc to the CD tray and press the DISC SELECT to place the third one at a time.)
4. Press the DISC EJECT button to close it. The DISC 1,2,3 appears on the display. Press **1** **2** **3** button to select a disc.
5. Press the PALY/PAUSE **▶||** button to start playback.



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

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

Note:

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

6. Press the STOP **■** button to end disc play track. When the last track has been played, the player stops automatically.

Temporarily stopping play

Press the PLAY/PAUSE **▶||** button, " **||** " appears on the display. To resume play, press the button again .

Skip Play

Briefly press the **◀◀** or **▶▶** button to select the track you want to play.

By pressing the button, you can skip to the next track or skip back to the previous track.

- The selected track starts playing(during playback)
- Press the **▶▶** button once to skip to the beginning of the next track.
- Press the **◀◀** button to skip to the beginning of the current track. Press twice quickly to skip to the beginning of the previous track

Search Play(forward/reverse)

Press and hold the buttons **◀◀** or **▶▶** during playback. Will fast backward or fast forwards to search your desire track songs. The playing time will quickly changes on the display.

Program play

In CD/USB/CARD stop mode.

1. Press "PROGRAM" to enter the program setting;
2. Press **◀◀** and **▶▶** to select the program track.
3. Press "PROGRAM" to confirm.

Repeat the step (1) - (3) to set up the other track for program(max. 20 tracks)

4. Press the button **▶||** to start program play.

It will be automatically stop the program playback when the last program song had played.

Random play

The CDs will play in no special order when you use this mode.The display will appear " RANDOM" .

1. In CD/USB/CARD stop or play mode, press RANDOM key and **▶||** key on the remote control to start the random play.
2. Press the **▶▶** button to jump to the next track in the random sequence.

Press the "STOP" **■** key to exit the random play mode.

Note :

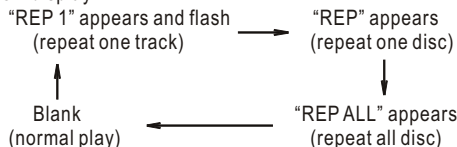
- You can open the CD compartment during the CD play.
- This unit can play back the CD-R/RW as well. However, some CD-R/RW can not be played back depending on the recording conditions
- Do not move the main unit when the disc inside. It may cause the disc jam in the bracket. The CD door may not open.

CD PLAY (Continuous)

Repeat play (for CD)

In CD stop or play mode, press "REPEAT" key to start the repeat function. Each time the button is pressed, the mode changes as shown below.:

LCD display:



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.

MP3/WMA CD OPERATION

The unit can play the CD-R/RW that has recorded music data. MP3 or WMA (Word Media Audio) files. Before playing MP3/WMA CD, please read following

MP3/WMA CD information

- MP3/WMA CD is the disc that standardized by ISO9660, its file name must have the extension letters "MP3" or "mp3"/"WMA" or "wma".
- Standard, sampling frequency and the bit rate:

MP3 files:

MPEG-1 audio
32 KHz, 44.1 KHz, 48 KHz
32 kbps ~ 320 kbps (constant bit rate or variable bit rate)

WMA files:

- WMA version 7, 8, and 9
32 KHz, 48 kbps ~ 64 kbps
44.1 KHz, 48 kbps ~ 192 kbps
48 KHz, 128 kbps ~ 192 kbps
- WMA9 professional files, WMA9 lossless files or DRM (copyright protection) files can not be played.
- The directory and file names of the MP3/WMA CD must be corresponded to the ISO standardized files.
- Single-session disc can be played back. As for multi-session disc, only first session can be played back.
- MP3/WMA CD may not be played in the recorded order.
- Music section in "CD Extra" can be played back; not Data section.
- "Mixed CD" can not be played back. Music files recorded by "Packet Writing" can not be played back.
- There are three basic methods for writing to a CD: Track-at-Once, "Disc at Once", and "Packet Writing". "Packet Writing" can not be played back.

Note:

- Some MP3/WMA CDs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non MP3/WMA files can not be played back.
- Do not make an empty folder. It may not work correctly.
- In this model, recommend recording setting is 128 kbps of fixing bit rate. If files are recorded in other bit rate (for examples: 320 kbps) or in variable bit rate, track-jump and distortion may sometimes happen according to recording conditions.

MP3 CD play

1. Set the function switch to "CD/USB/CARD" position;
2. Press EJECT to open the CD tray and load the MP3 CDs.
3. Press DISC1, DISC2, DISC3 or CD SELECT to select your desired CDs,
4. The total number of files of MP3 CD appears on the display.



5. Press "PLAY" button to start playback.
6. Press FOLDER UP or FOLDER DOWN to select the desired folder.
7. Press "BACK"/"NEXT" to skip the tracks.
8. Press the "STOP" button at any time to stop the playback.

Note:

- If there is no music data, "no disc" appears
- Only select the folder in playing mode.

MP3/WMA CD OPERATION (Continuous)

Program play

1. Set the function switch to CD/USB/CARD.
2. Press EJECT to open the CD tray and load the MP3 CDs.
3. Press "PROGRAM" to enter the program mode.
4. Press "FOLDER UP" or "FOLDER DOWN" on the remote to select the desired folder.
5. Select the desired track with the ◀◀ "BACK"/"NEXT" ▶▶ button.
6. Press "PROGRAM" to store the selected track.

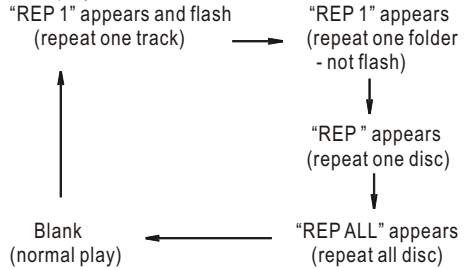
Repeat the step (4)~(6) to program other tracks.
(max. 20 tracks)

7. Press "PLAY" ▶▶ to start program play back.
8. Press "STOP" ■ button to cancel program play back any time.

Repeat play (for CD MP3 disc)

In CD stop or play mode, press "REPEAT" key to start the repeat function. Each time the button is pressed, the mode changes as shown below.:

LCD display:



USB memory device OPERATION

Important information:

- The change function key ONLY active after the CD reading complete or "no disc" appear on the LCD display;
- Copyright protection files on the USB memory device are skipped automatically when play back;
- Recommend use : Flash memory type USB memory player
- Not recommend use : Hard Disc Memory type USB player
- Some flash memory player does not play successfully with this unit.

Before use

- Some USB devices can not be used;
- This unit can recognize only MP3 and WMA files;
- It may take more time for reading operation depending on the recording condition
- Please refer to "MP3/WMA CD information" on page 7.

Basic playback

1. Press and hold the CD/USB/CARD button for 3 second to change mode; The function will change to USB (the LCD display will appear the indication) . If the USB is empty or the unit can not recognize the USB device, the LCD display will shown "no disc"
2. The music will play auto matically.
3. Press FOLDER UP or FOLDER DOWN on remote control to select the desire folder.
4. Press ◀◀ "BACK"/"NEXT" ▶▶ to skip the tracks.
5. Press "PLAY/PAUSE" ▶▶ button to temporarily stop play
6. Press the "STOP" ■ button at any time to stop the playback.

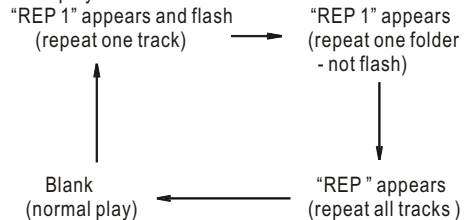
Program Play

Same as "MP3 CD program play" on this page.

Repeat play (for USB)

In USB stop or play mode, press "REPEAT" key to start the repeat function. Each time the button is pressed, the mode changes as shown below.:

LCD display:



Removing the USB memory device

Press the "STOP" ■ button before removing or change to other functions

Note:

Do not disconnect the USB memory device during playback. If do, the data may be damaged.

SD card memory device OPERATION

Important information:

- The change function key **ONLY** active after the CD reading complete or “no disc” appear on the LCD display;
- Copyright protection files on the USB memory device are skipped automatically when play back;
- Recommend use : Flash memory type USB memory player
- Not recommend use : Hard Disc Memory type USB player
- Some flash memory player does not play successfully with this unit.

Before use

- Some SD card devices can not be used;
- This unit can recognize only MP3 and WMA files;
- It may take more time for reading operation depending on the recording condition
- Please refer to “MP3/WMA CD information” on page 7.

Basic playback

1. Press and hold the CD/USB/CARD button for 3 second to change mode; The function will change to SD (the LCD display will appear the indication) . If the card is empty or the unit can not recognize the SD card device, the LCD display will shown “no disc”
2. The music will play auto matically.
3. Press FOLDER UP or FOLDER DOWN on remote control to select the desire folder.
4. Press **⏮** “BACK”/“NEXT” **⏭** to skip the tracks.
5. Press “PLAY/PAUSE” **⏮** button to temporarily stop play
6. Press the “STOP” **■** button at any time to stop the playback.

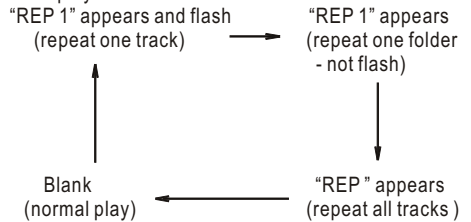
Program Play

Same as “MP3 CD program play” on page 8.

Repeat play (for USB)

In CARD stop or play mode, press “REPEAT” key to start the repeat function. Each time the button is pressed, the mode changes as shown below.:

LCD display:



Removing the USB memory device

Press the “STOP” **■** button before removing or change to other functions

Note:

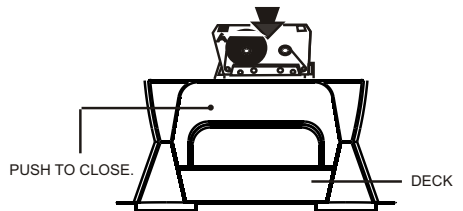
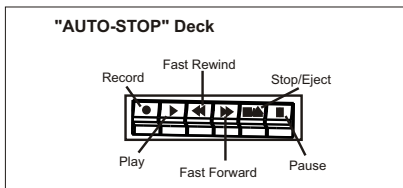
Do not disconnect the USB memory device during playback. If do, the data may be damaged.

LISTENING TO TAPE

Basic playback

1. Set the function switch to TAPE ;
2. Open the Deck control door;
3. Press the STOP/EJECT button of the cassette keys to open the cassette door

4. Load the cassette into the cassette bracket.



LISTENING TO TAPE (Continuous)

After loading the cassette, push the cassette bracket back into the position

5. Press cassette "PLAY" ► button to start playback
6. Press cassette "PAUSE" || button to temporarily stop playback
7. Press cassette "STOP" ■/▲ button to stop playback. Press again to remove the cassette

Fast forward and rewind

Press the cassette "REW" or "F.FWD" button to search the desire track which we wish to play.

Automatic stop system

At the end of the tape while recording or playing back, the cassette deck stop automatically and the button are released.

SYNC cassette Recording

- Insert the recording tape into deck
- In CD/USB/CARD stop mode, press ● "REC" the CD/USB/CARD player will start playing from the first track and recording will start simultaneously.
- In CD/USB/CARD playing mode, press ● "REC" the CD/USB/CARD player will start playing from the beginning of current track and recording will start simultaneously.

Recording from the radio

Switch the function switch to "RADIO", set the band switch to "FM st or AM". Tune the desire station.

Insert the recording tape into deck.

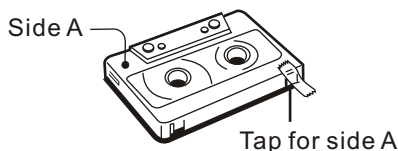
Press the cassette ● "REC" to recording.

To erase a tape

1. Insert the recording tape into deck. Select function switch to "TAPE" mode.
2. Set the tape to the desired point if needed. Press ● "REC" to erase.

To prevent accidental erasure

- Break off the plastic tab of the cassette tape with a screwdriver or other pointed tool.
- To record on the tape again, cover the detection slot with adhesive tape as shown below.



Note on cassette:

- Use of 120-minute or longer tapes is not recommend since they are extremely thin and easily deformed or damaged.
- Take up any slack in the tape with a pencil or similar tool before use. Slack tape may jam in the mechanism.

LISTENING TO RADIO

1. Set the FUNCTION switch to RADIO
2. Select the desire radio band with BAND switch AM or FM st.
3. Tune in a desired station by turning the TUNING control.
4. Rotate the volume knob to increase to get higher volume or counter decrease to get lower volume level.
5. Press "BASS" button to enhance sound.
6. Press "MUTE" button on the main unit or remote control to stand on the static condition and the radio still act.

To improve reception

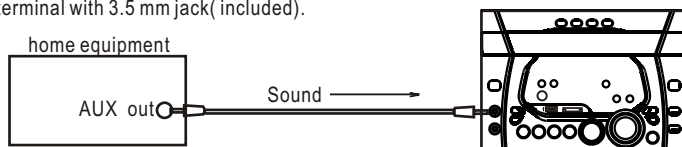
Keep antenna away from metallic objects, electrical equipment and cords.

FM antenna : Extent fully and position for best reception.

AM antenna: Rotate the main unit to find best reception

LISTENING TO AUX.

1. Set the function switch to position "AUX";
2. Connect the out sound source from other home equipment to the "AUX" input terminal with 3.5 mm jack(included).



SPECIFICATIONS

MAIN UNIT

TUNER

| | |
|-----------------------|-----------------------|
| FM tuning range | 87.5 MHz to 108.5 MHz |
| FM usable sensitivity | 18 dB |
| FM antenna | Antenna wire |
| AM tuning range | 531 kHz to 1603 kHz |
| AM usable sensitivity | 1000 μ V/m |
| AM antenna | Loop antenna |

AMPLIFIER

| | |
|--------------|---|
| Power Output | 10W X 2 r.m.s |
| Input | AUX : 500 mV |
| Outputs | SPEAKERS: 4 ohms or more PHONES: 32 ohms or more |

CASSETTE DECK

| | |
|--------------------|---|
| Track format | 4 tracks, 2 channels stereo |
| Frequency response | 50 Hz-10 kHz |
| Recording System | DC bias |
| Heads | DECK : recording / playback x 1, erase x 1 |

CD PLAYER

| | |
|-----------------------|--|
| Laser | Semiconductor laser (λ =780 nm) |
| D/A converter | 1 bit |
| Signal-to-noise ratio | 65 dB (1 kHz, 0 dB) |
| Harmonic distortion | 0.05% (1 kHz, 0 dB) |

GENERAL

| | |
|------------------------|-----------------|
| Power requirements | AC 240 V ,50 Hz |
| Power Consumption | 90 W |
| Dimensions (W x H x D) | 360 x310 x280mm |
| Weight | 5.8 Kgs |

FRONT SPEAKERS

| | |
|-----------------------|--------------------|
| Speaker system | 4 Inches |
| Impedance | 4 ohms |
| Dimension (W x H x D) | 245 x 315 x 220 mm |
| Weight | 4.5 Kgs |

Specifications and external appearance are subject to change without notice.

COPYRIGHT

Check copyright laws relevant to recordings from discs, radio or tape for the country where the unit is to be used.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

SANYO

SANYO Electric Co, Ltd. Dsaka, Japan