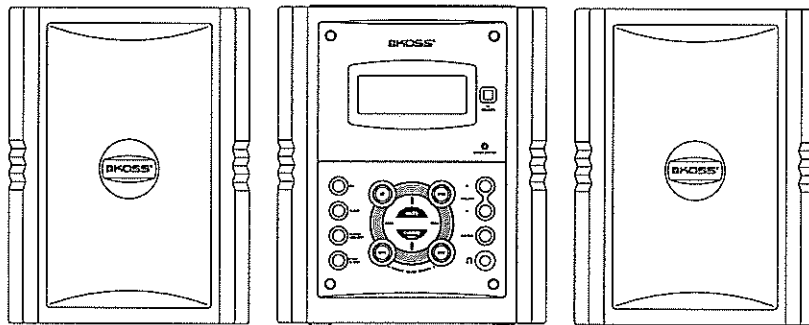




KS2149-4
MICRO AUDIO SYSTEM
WITH CD / MP3 PLAYER AND
DIGITAL TUNER



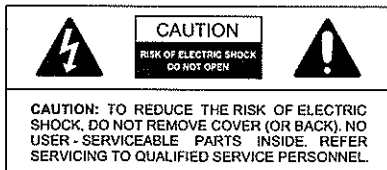
INSTRUCTION MANUAL

Dear Customer,

Please read this manual thoroughly before operating the unit to become more familiar with it and obtain the performance that will bring you continued enjoyment for many years. Keep these instructions handy for future reference.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

For future reference, record the serial number of the unit printed in the rear of the cabinet.



DANGEROUS VOLTAGE

Uninsulated Dangerous Voltage, that may be of sufficient magnitude to constitute a risk of electric shock to persons is present within this product's enclosure.



ATTENTION

The Owner's Manual contains important operating and maintenance instructions. For your safety, it is necessary to refer to the manual.



DANGER:

Invisible and hazardous laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

IMPORTANT

Since CD circuitry may cause interference to other radio tuners nearby, switch this unit off when not in use or move it away from the affected radio tuner.

NOTE: This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of Industry Canada. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment Generates, uses, and can radiate radio Frequency energy and, if not installed and Used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

LASER SAFETY: This unit employs a laser. Only qualified service personnel should attempt to service this device due to possible eye injury. **CAUTION: USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE PROCEDURE HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

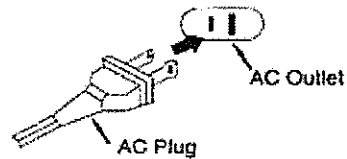
PREPARATION FOR USE

UNPACKING AND SET-UP

- Carefully remove the unit from the carton and remove all packing material from the unit.
- Remove any labels or stickers which may be on the front or top of the set, but do not remove any labels from the back or bottom.
- We suggest that you retain the original carton and packing materials in case it ever becomes necessary to return your unit for service. This is the only sure way to protect the unit from damage in transit.

POWER SOURCE

This system is designed to operate on 120V 60Hz AC house current . Connecting this system to any other power supply could result in damage to the unit which is not covered by your warranty.

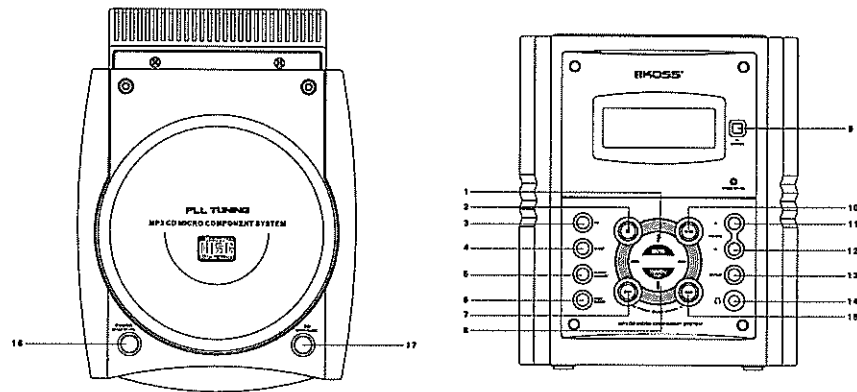


AC OPERATION

1. Unwind the AC Power Cord completely.
2. Insert the plug into any convenient 120V 60Hz AC outlet.

NOTE: This unit has a polarized AC plug with one wide blade and one narrow blade. This plug will only fit into a matching polarized AC outlet. This is a safety feature to reduce the possibility of electric shock. If this plug will not fit in your AC outlet, you probably have an outdated non-polarized outlet. You should have your outdated outlet changed by a qualified, licensed electrician. Do not file the wide blade on the plug, or use an adapter to make the plug fit into your outlet. This defeats the safety feature and could expose you to electric shock.

LOCATION OF CONTROLS

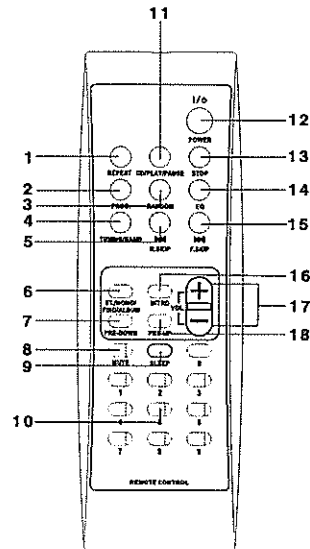


MAIN UNIT :

- | | |
|-----------------------|----------------------------|
| 1.MUTE button | 10.PLAY/PAUSE button(▶▶) |
| 2.STOP button(■) | 11.VOLUME UP + |
| 3.EQ button | 12.VOLUME DOWN - |
| 4.SLEEP button | 13.REPEAT button |
| 5.CLOCK/MEMORY button | 14.Headphone Jack |
| 6.FIND/ALBUM button | 15.SKIP/TUNING (▶▶) |
| 7.SKIP/TUNING (◀◀) | 16.POWER On/Standby |
| 8.TUNER/BAND button | 17.CD OPEN/CLOSE |
| 9.IR Sensor | |

REMOTE CONTROL :

- 1.REPEAT button
- 2.PROGRAM button
- 3.RANDOM button
- 4.TUNING/BAND button
- 5.R. SKIP button (◀◀)
- 6.ST./MONO./FIND/ALBUM.
Button
- 7.PRE-DOWN button
- 8.MUTE button
- 9.SLEEP button
- 10.Numeric button
- 11.CD/PLAY/PAUSE button
- 12.POWER button
- 13.STOP button
- 14.EQ button
- 15.F. SKIP button (▶▶)
- 16.INTRO button
- 17.VOLUME +/- button
- 18.PRE-UP button



BATTERY INSTALLATION

Insert 2 pcs 'AA' (Alkaline) size batteries (not included) into the battery compartment of the remote controller and close the cover.

BATTERY REPLACEMENT

When the batteries become too weak, the operating distance of the remote controller is greatly reduced and you will need to replace the batteries.

NOTES:

- To maintain the accuracy and long life of the transmitter, do not press two or more buttons simultaneously.
- If the remote control is not to be used for a long time, remove the batteries to prevent possible damage through leaking batteries.
- Do not mix different types of batteries, or old batteries with new ones.

USING THE REMOTE CONTROLLER CORRECTLY

- Point the remote controller at the Remote Sensor.
- The functions of the buttons on the remote control are the same as the corresponding controls on the main unit.
- When there is a strong ambient light source, the performance of the infrared Remote Sensor may be degraded, causing unreliable operation.
- The maximum effective distance for remote control operation is about 15 feet.

CLOCK SETTING

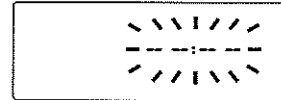
With the AC power connected and the Power switch off:

Press CLOCK/MEMORY button until display goes to clock setting mode. Use "◀" or "▶" button to set to 12H/24H as preference.

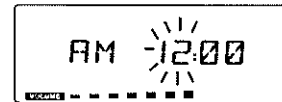
Press the CLOCK/MEMORY button. The hour digits will flash in the display.

Press the ◀/▶ buttons to set the request hour. Be sure to set correctly for AM or PM if already set to 12 hour.

Power off

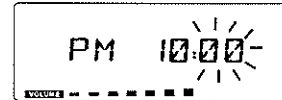


Clock

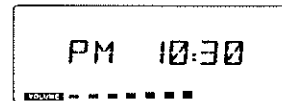


Press the CLOCK/MEMORY button again, The Hour is now set and the Minute digits start to flash in the display.

Use the ◀/▶ buttons to set the required minute.



Press the CLOCK/MEMORY button again. The Minutes are now set and the clock will start.



Note:

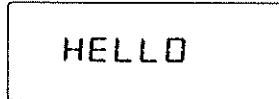
Clock time is only retained while the unit is plugged into the AC outlet. In the events of a power failure, the clock will need to be reset when the power supply resumes.

Clock time is only shown when unit is in Standby mode.

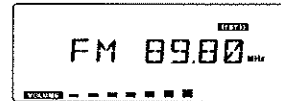
GENERAL OPERATION

Press "POWER" button, welcome message appears and then the Tuner FM band is displayed.

Power on



Power on (tuner mode)



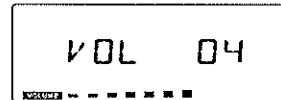
Electronic volume control
Press "VOL-" to reduce the volume, the volume level will be shown on the LCD panel

Holding down the button will result in continuous decrease in volume.

Press "VOL+" will have an opposite result, it is similar to the case of pressing "VOL-"

Press "MUTE" button on the unit or remote control to switch off the sound, volume indicator will flash on the display. Press "MUTE" again to restore the sound to the previous level.

Electronic volume control display



Use function buttons ("CD/PLAY/PAUSE" or "TUNER/BAND") to select the desired mode

CD MODE :

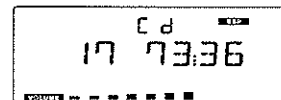
Press "CD OPEN/CLOSE" button to open the motorised CD door and insert a CD.
Press "CD OPEN/CLOSE" button and motorised CD door will close.
Press "CD/PLAY/PAUSE" button to select the CD mode, TOC reading starts and unit will display the total no. of tracks in CD.

NOTE: Do not try to close the CD door manually or you may damage the CD door mechanism. Always use the CD OPEN/CLOSE button.

CD TOC reading display



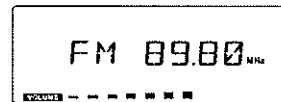
After reading TOC



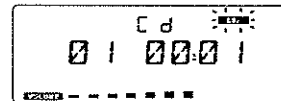
TUNER MODE :

Press "TUNER/BAND" button to set the tuner mode, and current receiving tuning frequency will be shown.

Receiving tuning frequency



CD auto play



NOTE: It is normal when going from Tuner mode to CD mode for CD to auto-play after reading TOC.

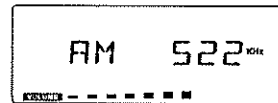
1. TUNER FUNCTION

1.1 Auto searching a station

Select the Tuner function by pressing the "TUNER/BAND" button.

Select the desired band (AM or FM) with the "TUNER/BAND" button.

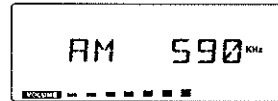
AM band selection



Tune to the desired radio station by pressing the "TUNING UP" or "DOWN" buttons on the unit.

If you hold the "TUNING UP" or "DOWN" button for more than half a second, the Tuner will begin to automatically scan until a strong signal is found.

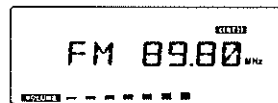
Broadcasting station in AM



1.2 Manual search a station to receive a weak broadcast signal.

Press the "SKIP/TUNING" or "SKIP/TUNING" button by one press at a time to adjust the frequency that you wish to receive.

Stereo reception



1.3 FM stereo broadcasting reception

STEREO "ST" display will light when a stereo broadcasting station is received.

1.4 Preset station memories

10 broadcast stations of FM band and 10 stations of AM band can be stored to the preset memory.

- a) In tuner mode, use either the auto search or manual search methods to find a desired broadcasting station or any desired frequency.

Search a desired station



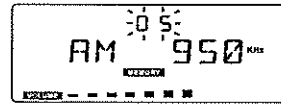
- b) Press "CLOCK/ MEMORY" button or "PROG" button on remote to make the channel display "01" appear.

Memory display



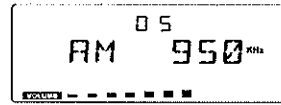
- c) Press "PRE-UP" key to choose the desired channel (e.g. channel 1)

Choose channel 1



- d) Press "CLOCK/ MEMORY" button or "PROG" button again, then the desired station is stored in channel 1.

Channel 1 presetting finish

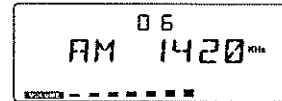


- e) Repeat steps (a) to (d) for storing the various broadcast stations to other channels or modifying the preset channel.

- f) To change the broadcast station of a certain channel to a different channel (Example: Change the 1420kHz broadcast station from channel 6 to channel 8)

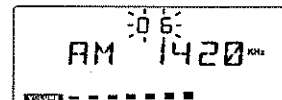
Press the "PRE-UP" or "PRE-DOWN" key or the numerical key to call the broadcast station of the channel that you wish to change. (Example: channel 6)

Before change of channel



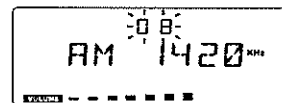
Press "CLOCK/ MEMORY" or "PROG." button to go to the presetting mode and the channel display flashes.

Presetting mode



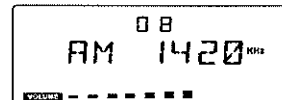
Press "PRE-UP" or "PRE-DOWN" to change the channel number to the desired new channel number (for example, channel 6 to 8)

After change of channel



Press the "CLOCK/ MEMORY" or "PROG" button once more and 1420kHz is set to channel 8.

1420kHz is stored in CH 8



Note: The original memory of channel 6 will not be changed during above operations but if another station was in channel 8 position it will be replaced.

ANTENNA


For FM reception, there is a built-in 3 ft FM antenna wire at the rear of the unit. Unravel the wire and move it around to obtain the best reception. For AM reception, the signals are picked up through the built-in ferrite antenna. You may have to move the unit slightly to obtain the best reception.

NOTE : Although this CD player can read CD-R and CD-RW discs, in addition to normal CDs, the playability of CD-R and CD-RW discs may be effected by the type of software that was used to create the discs, as well as the quality and condition of the blank media you are using. 100% playability cannot be guaranteed. This is not an indication of a problem with the player.

2. Normal CD Playback

2.1 Power On

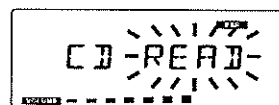
Press the POWER  button to turn the unit "On".

Select the CD function by pressing the CD button  or CD/ PLAY/ PAUSE on the remote.

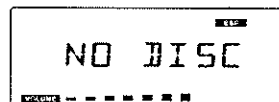
When the CD door is closed, reading Table of Content (TOC) will start.

If there is no CD inside or can't read TOC, display will show "NO DISC".


Reading TOC




When there is no disc



2.2 Loading a disc

Press the CD Door Open/ Close  button to open the CD compartment. If you have not already removed the white transit card from the CD player, please remove it now.

Place your CD on the center spindle with the printed label side facing up. Gently press down on the CD near the center hole to make sure that the disc is properly seated on the spindle.

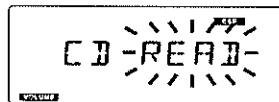
Close the disc compartment by pressing the CD Door Open/Close  button. When the compartment is fully closed, the disc will start turning automatically.

After that, reading TOC will start.

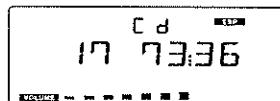
Lid open



Reading TOC



After reading TOC



The total number of tracks on the CD will appear on the LCD display after a few seconds.

2.3 To play the disc

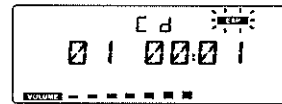
After reading TOC, the disc can start to play anytime.

Searching track 1



Playing track 1

Press "CD/PLAY/PAUSE ►" to begin playback on track 1.

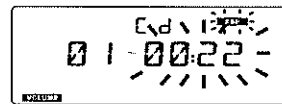


2.4 To pause playback

Press "CD/PLAY/PAUSE ►" when the disc is playing and the playing time will flash

One more press of the "CD/PLAY/PAUSE ►" key will cancel the pause condition.

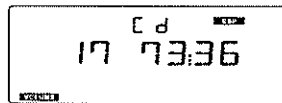
While paused



2.5 To stop the disc playing

Press "STOP ■"

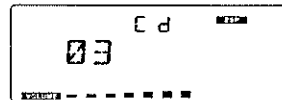
Stop condition (TOC display)



2.6 CD Skip / Search

To skip to higher or lower numbered tracks during playback, press the "SKIP/TUNING ◀" or "SKIP/TUNING ▶" button repeatedly until the desired track number appears on the display. Press "CD/PLAY/PAUSE ►" button. Playback will begin on the selected track.

Searching track 3



To search rapidly forward or backward during playback to locate a specific portion of a track, depress and hold the "SKIP/TUNING ⏮" or "SKIP/TUNING ⏭" button.

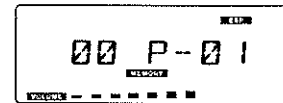
The player will search rapidly forward or backward as long as the buttons are depressed. Normal speed playback will resume when the buttons are released.

- 2.7 ESP FUNCTION
This unit has anti-shock (ESP) protection.

2.8 MEMORY MODE

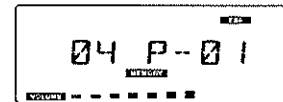
- a) In CD STOP mode, Press "CLOCK/MEMORY" or "PROG" button one time

Program input mode



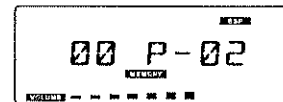
- b) Specify a track to play with "SKIP/TUNING" or "SKIP/TUNING" (This can also be done with the numerical keypad in the remote control).

Choose track 4



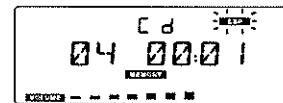
- c) Press "CLOCK/MEMORY" or "PROG." one time, then track 4 is stored into the program 1 position. Step (a) to (c) can be used to store up to 64 tracks in the program.

Program input complete



- d) Press "CD/PLAY/PAUSE" button to play the program

Play operation



- e) Press "STOP" button when you wish to cancel the program.

- f) Cancel program


In PLAY mode, press "STOP" button
Open the CD door
Press "STOP" button, during memory


Note: If the program already exists, press the "CLOCK/ MEMORY" or "PROG" button and "CD/PLAY/PAUSE" button, program play will start.

The memory will be cleared when the CD door is opened.

3. MP3 FUNCTION

3.1 Power On

Press the POWER  button to turn the unit "On".

Select the CD function by pressing the CD button  or CD / PLAY/ PAUSE button.

Reading TOC




If there is no CD inside or can't read TOC, display will show "NO DISC".

Reading TOC

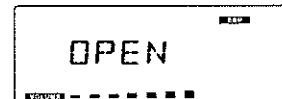



3.2 Loading a disc

Press the CD Door Open/ Close  button to open the CD compartment.

When the disc compartment has opened, insert the disc with the label inside facing up. Push down in the center until disc is locked in place.

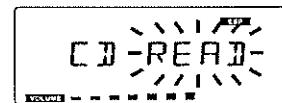
Lid open



Close the disc compartment by pressing the CD Door Open/Close  button. When the compartment is fully closed, the disc will start turning automatically.

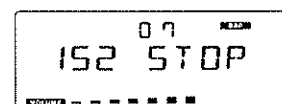
After that, reading TOC will start.

Reading TOC



The total number of albums or directories & tracks will appear in the LCD display after a few seconds. Example: 7 albums or directories and 152 total tracks.

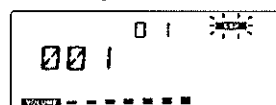
After reading TOC



3.3 To play the disc

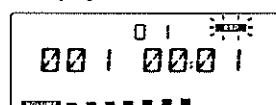
After reading TOC, the disc can start to play anytime.

Searching track 1



Playing track 1

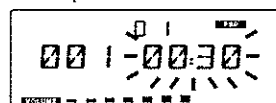
Press "CD/PLAY/PAUSE ►" to begin playback on track 1.



3.4 To pause playback

Press "CD/PLAY/PAUSE ►" and the playing time will flash.

While paused

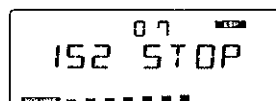


One more press of the "CD / PLAY / PAUSE ►" will cancel the pause condition.

3.5 To stop the disc playing

Press "STOP ■"

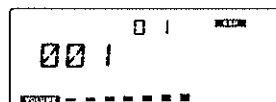
Stop condition (TOC display)



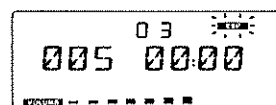
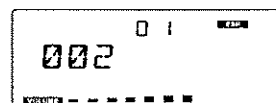
3.6 To specify a track to play

- a) Press "PRE-UP" or "PRE-DOWN" button to select the album or directory No.
- b) Press "SKIP/TUNING ►" or "SKIP/TUNING ◀" button for the desired track No.
- c) For example, to play track 5 of album 3, press "PRE-UP" 3 times, then press "F.SKIP/ ►" 4 times. Press "CD/PLAY/PAUSE" button, the track will play.

Album No.changed

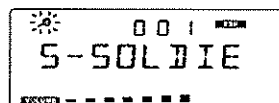


Track No.changed



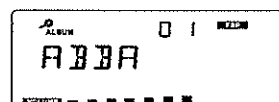
- d) Press the "FIND" button once. The first letter of the alphabet (A) appears and if there is a TITLE name it will be displayed (in case where there is no name on the disc, NONE is displayed).
How to find songs with the same alphabet letter? First press the ◀◀ or ▶▶ button to find the letter of the alphabet for the desired song title. Then hold ◀◀ or ▶▶ for at least 1 second and the desired letter of the alphabet will flash. Keep pressing the ◀◀ or ▶▶ to find different song titles beginning with same alphabet letter.

Press find button once



- e) Press the "FIND" button twice, ALBUM name is displayed. (In case there is no name on the disc, display will simply show the ALBUM number). Press ◀◀ or ▶▶ button, the album No changes
- f) When the desired track is displayed, press the CD PLAY button and track starts playing.

Press find button twice

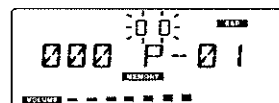


NOTE: When playing, press the "FIND/ALBUM" button more than 1 second, song name displayed. If pressed for more than 1 second, it displays track and lapsed time.

3.7 Memory mode

- a) Press "MEMORY." or "PROG." Button, Album No. Flashes
- b) Press "SKIP/TUNING ◀◀" or "SKIP/TUNING ▶▶" button, album No. changes.
- c) Press "MEMORY." or "PROG." button, track No. flashes
- d) Press "SKIP/TUNING ◀◀" or "SKIP/TUNING ▶▶" button, track No. Changes.
- e) Press "CLOCK/MEMORY" or "PROG" button to memorize the program. Repeat steps a) to e) to add additional albums/tracks to memory.
- f) Memory play
When you are finished programming songs, press "CD PLAY" button and it starts playing all programmed tracks.
- g) Press "STOP" button when you wish to cancel the program.
- h) Up to a maximum of 64 tracks can be stored into memory.

Album change



Track change



Memory play



NOTES: If the disc is deeply scratched or too dirty, disc play may not start. If the disc is inserted incorrectly, or the disc is damaged, the "no disc" indicator will flash on the display.



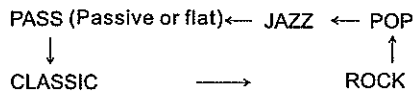
STEREO HEADPHONE JACK

For private listening without disturbing others, connect a set of stereo headphones (not included) to the PHONES Jack on the front panel. The built-in speakers automatically shut off when stereo headphones are connected to the headphone jack. When using headphones, always start with the volume control set to a low level and gradually increase until you find the desired level.

4. REMOTE FUNCTION

4.1 EQ control

When you press the EQ button, the sound tone changes as below:

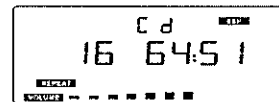


4.2 Repeat Play

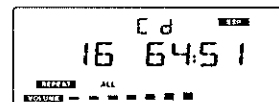
-CD

- Press REPEAT button once, REPEAT is displayed. Unit plays one track repeatedly.
- Press REPEAT button twice, REPEAT ALL is displayed. Unit plays all tracks repeatedly.
- Press REPEAT button three times, REPEAT function is off.

Repeat one CD track

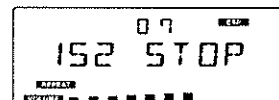


Repeat all CD tracks



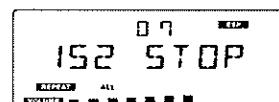
- MP3
- Press REPEAT button once, then REPEAT is displayed. Unit plays one track repeatedly.

Repeat one MP3 track



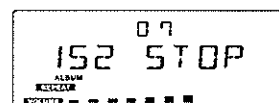
- Press REPEAT button twice, the REPEAT ALL is displayed, unit plays all track repeatedly.

Repeat all MP3 tracks



- Press REPEAT button three times, then REPEAT ALBUM is displayed. Repeat all songs contained in current ALBUM.

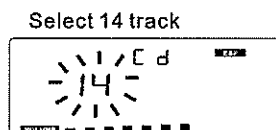
Repeat album tracks



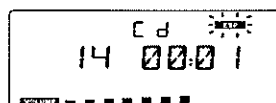
- Press REPEAT button four times, REPEAT function is off.

4.3 Numeric keys (1-9)
Locate songs (e.g. track 14)

1) When CD is playing, press number buttons "1" and "4" on remote



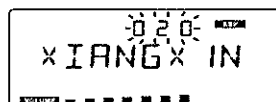
2) Press "CD/PLAY/PAUSE ►►" to play



4.4 Key "0"

1) Press other numeric keys, and press "0" key.
To select "20", press number keys "2" and "0".

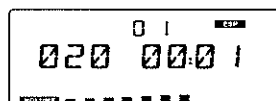
In playing mp3.select 20 track



2) Press "CD/PLAY/PAUSE ►►" button to play track 20.

3) How to select songs when track number exceeds 99?
Please use remote control to select song name.
For example, track no. is 108, first press "1" button, then press "0" key, last press "8" key, track "108" will appear.

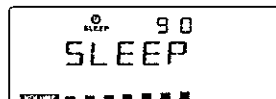
Playing 20 track



4) If total no. of album is less than your input count, "UNKNOWN" displays. If input count discrepancies is large, "NONE" displays.

4.5 Sleep Control
Press "SLEEP" button. Each time you press, time changes on display. You may set the unit to go off after the selected time up to 90 minutes (90,80,70, 60,50,40,30,20,10,OFF)

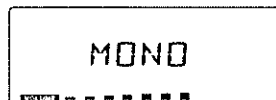
Sleep display



4.6 MO-ST/FIND button
In FM mode

1) Press "MO-ST/FIND" button once, MONO is displayed.

Mono display



2) Press "MO-ST/FIND" button twice, STEREO is displayed.

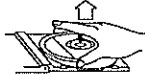
Stereo display



CARE AND MAINTENANCE

COMPACT DISC CARE

- To remove a disc from its storage case, press down on the centre of the case and lift the disc out, holding it carefully by the edges.



- Fingerprints and dust should be carefully wiped off the disc's recorded surface with a soft cloth. Unlike conventional records, compact discs have no grooves to collect dust and microscopic debris, so gently wiping with a soft cloth should remove most particles. Wipe in a straight line from the inside to the outside of the disc. Small dust particles and light stains will have absolutely no effect on reproduction quality.
- Clean the disc periodically with a soft, lint-free, dry cloth. Never use detergents or abrasive cleaners to clean the disc. If necessary, use a CD cleaning kit.
- Never write on or affix labels to the surface of compact discs.



CARE OF THE CABINETS

- If the cabinets become dusty wipe them with a soft dry dust cloth. Do not use any wax or polish sprays on the cabinets.
- If the front panel becomes dirty or smudged with fingerprints it may be cleaned with a soft cloth slightly dampened with a mild soap and water solution. Never use abrasive cloths or polishes as these will mar the finish of your unit.

CAUTION:

Never allow any water or other liquids to get inside the unit while cleaning.

SPECIFICATIONS

CD Section:

Channels : 2 channels
S/N ratio : 50 dB
Sampling frequency: 44.1 kHz
Pick up light source : Semi-conductor laser
Pick up wave length: 760-800 nm
Laser output : Continuous wave max.
0.4 mW

General:

Speaker : 102 mm x 2 (4 ohms)
Terminals-Output: 3.5 mm stereo headphone
Power source : AC: 120V 60Hz
Dimension: Unit : 162 x 190 x 225mm (WHD)
Speaker : 155 x 190 x 183mm (WHD)
Weight : 6.9 kgs (excluding batteries)

Radio Section:

Tuning ranges: FM 87.5-108.5 MHz
AM 520-1710 KHz
Aerials : Built-in ferrite
bar and pig-tail antenna