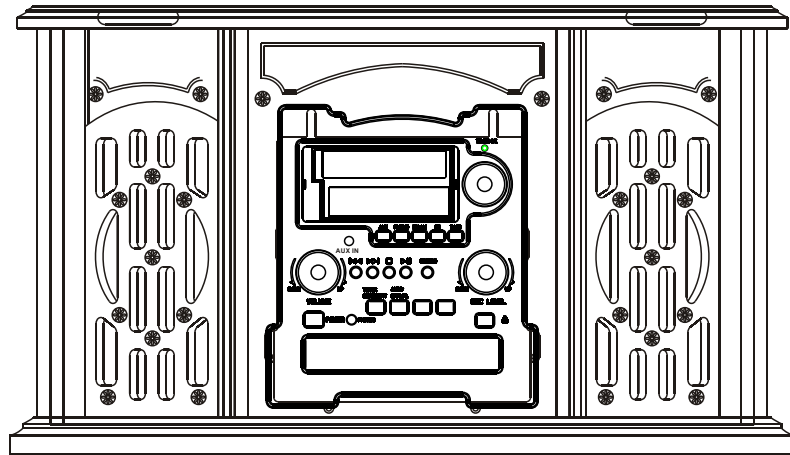




**innovative technology.™**



**MODEL: ITRR-501**  
**PHONO CD-DA Recorder with Cassette**  
**player and Analog Tuning AM/FM Radio**

## **IMPORTANT SAFETY INSTRUCTIONS** **FOR AUDIO PRODUCTS-READ THOROUGHLY**

When using electrical products, basic precautions should always be followed including:

- 1. Read Instructions** - All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions** - The safety and operating instructions should be retained for future reference.
- 3. Heed Instructions** - All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions** - All operating and user instructions should be followed.
- 5. Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7. Water and Moisture** - Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- 8. Accessories** - Do not place this product on an surface. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a stand, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a Mounting accessory recommended by the manufacturer.
- 9. Transporting** - This product should be moved with care to avoid damage or injury.
- 10. Ventilation** - Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11. Power Sources** - This product 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 product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operation instructions.
- 12. Power - Cord Protection** - Power-supply cords should be routed so that they are not likely to be trapped in any way.
- 13. Lightning** - For added protection for this product 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 product due to lightning and power-line surges.
- 14. Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

- 15. Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 16. Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 17. Servicing** - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 18. Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a. If the power-supply cord or plug is damaged.
  - b. If liquid has spilled, or objects have fallen into the product.
  - c. If the product has been exposed to rain or water.
  - d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  - e. If the product has been dropped or damaged in any way, and the product exhibits a distinct change in performance-this indicates a need for service.
- 19. Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric Shock, or other hazards.
- 20. Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 21. Wall or Ceiling Mounting** - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 22. Heat** - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products(including amplifiers)that produce heat.

## Precautions

### Safety Information

#### Caution:

1. Do not remove the protective housing.
2. Use of controls and adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
3. If this product develops trouble, contact qualified service centers, and do not use the product in defective states.

### Safety Precautions

#### WARNING:

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

#### CAUTION

**RISK OF ELECTRIC SHOCK- DOES NOT OPEN!**

To reduce the risk of electric shock, do not remove cover or back.  
No user serviceable parts inside. Refer servicing to qualified service personnel.



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



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



#### Caution:

For compact disc units only: invisible laser radiation when open and interlock failed or defeated. avoid direct exposure to laser beam.

(See markings on the back of the unit)

#### Caution:

To prevent electric shock, match wide blade of plug to wide slot, fully insert.

## Before Use

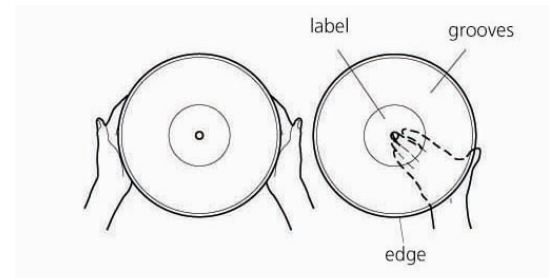
1. Choose unit installation location carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, cold or moisture. Keep away from sources that hum, such as transformers or motors.
2. Do not open the cabinet as this might result in damage to the circuitry or electrical shock, if a foreign object should get into the set, contact your dealer.
3. Be sure not to handle discs with dirty fingers. Never insert a disc that has a crack on the surface.
4. When removing the power plug from the wall outlet, always pull directly on the plug, never pull the cord.
5. To keep the laser pickup clean, do not touch it, and do not forget to close the disc tray.
6. Do not attempt to clean the unit with chemical solvents as this might damage the finish. Use a clean, dry cloth.
7. In order to shut off the power to this product completely, unplug the power cord from the wall outlet. Be sure to unplug the unit if you do not intend to use it for an extended period of time, such as a vacation.
8. Keep this manual in a safe place for future reference.

## Beware of Condensation

When the player (or a compact disc) is moved from a cold to a warm place or is used after a sudden temperature change, there is a danger of condensation. Water vapor in the air could condense on the mechanism or the laser pickup. If droplets of water form on these parts, correct playback will be impossible because the laser cannot read the information from the disc correctly. To prevent this, if you are going to use the player in a condition where condensation could occur, you should leave the player for 1 or 2 hours after plugging it into an AC outlet depending on the amount of condensation. If this is done, the player will stabilize at the temperature of its surroundings.

## Handling Records

- Do not touch the record's grooves. Only handle records by the ledges or the label with clean hands. Otherwise, the dirty handle can leave a residue on the record surface that will gradually deteriorate the quality of your record.



- Using a soft anti-static cloth to gently wipe the record surface when the record has become dirty.
- Keep records in their shield when not in use.
- Store records upright on their edges. The level store would make it become curved.
- Avoid placing it in direct sunlight or close to a source of heat such as radiators, stoves. Also avoid location subject to vibration and excessive dust, heat, cold or moisture.

## How to Replace the Stylus

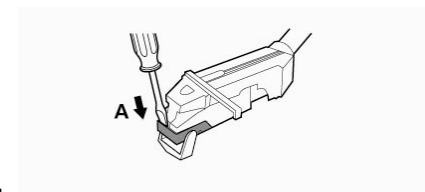
The stylus should last about 50 hours under normal use. However, it is recommended that the stylus be replaced as soon as you notice a change in sound quality. Prolonged use of a worn-out stylus may damage the record. The highest speed of 78 RPM records would wear out the stylus more quickly.

### Caution:

- Do not remove or bend the stylus.
- Do not touch the needle, which should injure your hand.
- Turn off the unit's power before you replace the stylus.
- Keep out of the reach of children.
- Avoid direct sunlight or close to a source of heat.

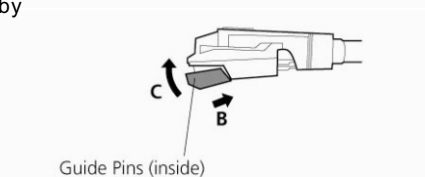
### Removing old stylus

1. Set a screwdriver at the tip of the stylus and push down to the direction "A".
2. Remove the stylus by pulling it forward and down.



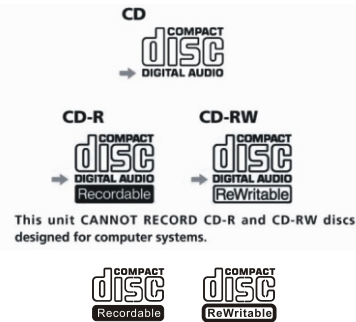
### Installing a new stylus

1. Hold the tip of the stylus and insert the other edge by pressing in the direction "B".
2. Push up the direction "C" until it locks at the tip.



## Discs

Please use CD, CD-R and CD-RW discs bearing the "DIGITAL AUDIO" mark.



In this manual, although we refer to "CD-R" and "CD-RW" disc, we always mean "CD-R Digital Audio" and "CD-RW Digital Audio", even when this is not explicitly stated.

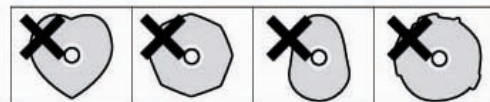
- "CD-R" and "CD-RW" discs designed for computer systems and properly recorded by a computer are playable, but this unit cannot record, finalize nor erase them.
- Depending on the quality of the disc and the condition of the recording, some CD-R/CD-RW disc may not be playable.
- Always place the disc on the disc tray with the label side uppermost(compact discs can be played or recorded only on one side)
- To move a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.



- The disc become dirty, wipe the surface from the center Hole outward towards the outer edge with a soft, dry cloth.



- Never use such chemicals as record spray, antistatic sprays or fluid, benzene or thinner to clean the discs. Such chemicals will do irreparable damage to the disc's plastic surface.
- Discs should be returned to their cases after use to avoid dust and scratches that could cause the laser pick up "skip".
- Do not expose discs to direct sunlight or high humidity and temperature for extend periods. Long exposure to high temperatures will warp the disc.
- Printable CD-R and CD-RW discs are not recommended, as the label side might be sticky and damage the unit.
- Use a soft oil-based felt-tipped pen to write the information on the label side. Never use a ball-point or hard-tipped pen, as this may cause damage to the recorded side.
- Do not use CDs with an irregular shape(octagonal, heart shaped, business card size, etc). CDs of this sort can damage the unit:



- If you have any doubts of using CD-R/CD-RW disc, read the precautions supplied with the disc, or contact the disc manufacture directly.

## About CD-R and CD-RW discs

CD-R discs can be recorded once only. Once they have been used for recording, they cannot be erased or re-recorded. However, if space is available on the disc (and the disc has not been finalized), additional material can be recorded.

By contrast, a CD-RW disc can be used in much the same way as a CD-R disc, but the last track or tracks recorded can be erased, and the space on the disc can be re-used for other recordings.

However, you should note that an audio CD created using a CD-RW disc may not play back satisfactorily on every audio CD-player.

CD-R, by contrast, may be played satisfactorily on the majority of audio CD players.

### Remote Control Unit

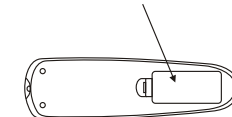
Remote Control Unit can operate the unit from a distance.

When operating the remote control unit, point it towards the front panel of the unit.

- Even if the remote control unit is operated within the effective range, remote control operation may be impossible if there are any obstacles between the unit and the remote control.
- If the remote control unit is operated near other appliances which generate infrared rays, or if other remote control devices using infrared rays are used near the unit, it may operate incorrectly. Conversely, the other appliances may operate incorrectly.

## Battery Installation

battery compartment cover



1. Remove the battery compartment cover.
2. Insert two "AAA" dry batteries. Make sure that the batteries are inserted with their positive "+" and "-" poles positioned correctly.
3. Close the cover.

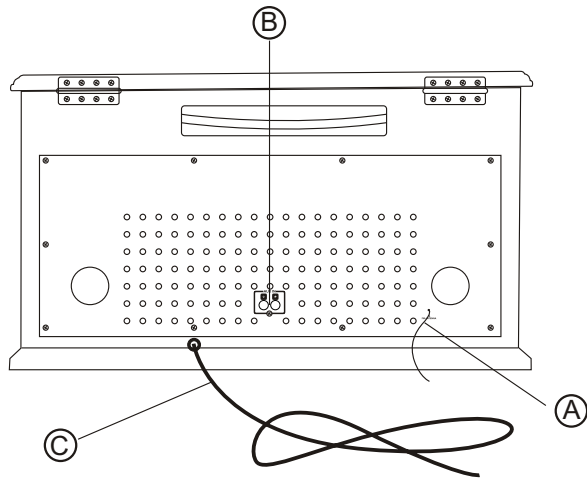
### Battery Replacement

If the distance required between the remote control unit and main unit decreases, the batteries are exhausted. In this case, please replace the battery with new ones.

### Precautions concerning batteries

- Be sure to insert the batteries with correct positive "+" and negative "-" polarities.
- Use batteries of the same type, never use different types of batteries together.
- Rechargeable and non-re-chargeable batteries can be used. Refer to the precautions on their labels.
- When the remote control unit is not to be used for a long time (more than a month), remove the batteries from the remote control unit to prevent them from leaking. If they leak, wipe away the liquid inside the battery compartment and replace the batteries with new ones.
- Do not heat or disassemble batteries and never dispose of old batteries by throwing them in a fire.

## Connections

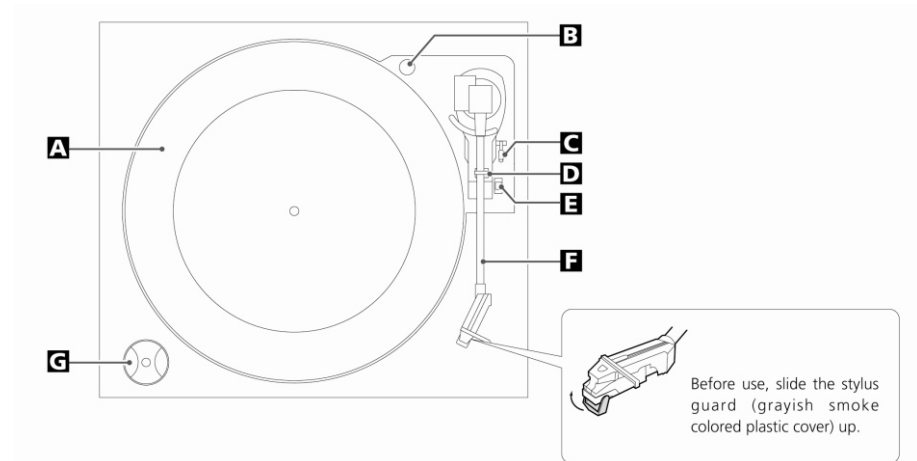


### Caution:

- Switch off the power to all equipment before making connections.
- Read the instructions of each component you intend to use with this unit.
- Be sure to insert each plug securely. To prevent hum and noise, avoid bundling the signal interconnection cables together with the AC power cord.

- A FM antenna**  
While in FM mode, tune in an FM station and extend the lead to find the best position for the reception. This antenna may need to be repositioned if you move your unit to a new location.
- B AUX IN jacks**  
You can connect a CD player, cassette tape deck, etc. to this unit. Connect the component with RCA pin cords. Make sure to connect the white plug to the white jacks(Left) and the red plug to the red jacks(Right)
- C AC Power Cord**  
Plug this power cord into an AC wall socket.

## Parts of the Turntable



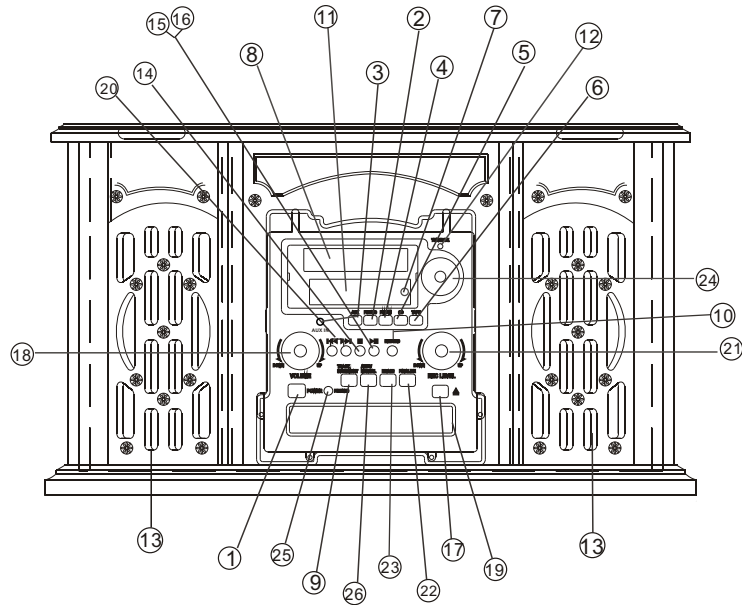
- A Turntable**
- B Screw fixing the turntable for transportation**  
Before use, completely loosen the screw by turning it clockwise with a coin or screwdriver.



When you transport the unit, turn the screw counterclockwise to secure the turntable.






- C Cue-lever**  
Use this lever to lift the tone arm.
- D Tone arm hold**
- E Speed selector**
- F Tone arm**
- G 45 RPM adaptor**

## Unit Functions



**Note:** If the unit can't work during operation, please shut off the power and start up it again.

- 1 POWER**  
Press this button to turn the unit on or off.  
The equipment draws a nominal amount of power from the AC outlet even with its POWER switch in the OFF position.
- 2 PHONO**  
Press the PHONO button and select PHONO to play a record.
- 3 AUX**  
Press the AUX button and select AUX to listen to the external source connected to the AUX IN jacks.
- 4 FM/AM**  
Press the FM/AM button to listen to the radio.
- 5 CD**  
Press the CD button to play a CD.
- 6 TAPE**  
Press the TAPE button to play cassette.
- 7 Remote Sensor**  
When operating the remote control unit, point it towards the REMOTE SENSOR.

- 8 Display panel (frequency)**  
When the unit is on, this display will light.
- 9 TRACK INCREMENT**  
During recording, use this button to divide tracks.
- 10 RECORD**  
Use this button to enter record pause mode.
- 11 Display**
- 12 TUNED indicator**  
Lights when a station is correctly tuned in.
- 13 Speakers (stereo)**
- 14 STOP**  
Use this button to stop playback or recording. 
- 15 PLAY**  
Use this button to start playback, recording, finalizing and erasing. 
- 16 PAUSE**  
Use this button to pause playback or recording. 
- 17 OPEN/CLOSE**  
In CD, PHONO or AUX mode, use this button to open and close the disc tray. This button don't work in FM/AM mode. 
- 18 VOLUME**  
Turn this knob to adjust the volume. 
- 19 DISC Tray**
- 20 MUSIC SKIP (◀◀ / ▶▶)**  
In CD mode, use these buttons to skip tracks.  
Hold down these buttons to search for a part of a track.
- 21 REC LEVEL**  
In record pause mode, use this knob to adjust the recording level.
- 22 FINALIZE**  
Use this button to finalize a CD-R/CD-RW disc.
- 23 ERASE**  
Use this button to erase or unfinalize a CD-RW disc.
- 24 TUNING**  
In FM/AM mode, turn this knob to tune in a station.
- 25 PHONES**  
For private listening, first reduce the volume level to minimum. Then insert the plug from your headphones into the PHONES jack, and adjust the volume by turning the VOLUME knob. The sound from speaker will be cut off while the headphones are Plugged in.

**26 MANUAL/AUTO REC**

Use this button to select the mode of track number assignment.

**27 CASSETTE EJECT**

**Remote Control**

**A STAND BY**

Press the STAND BY button, the display is lighted during stand by mode (but nothing shows on the display);

**B OPEN/CLOSE**

In CD, PHONO or AUX mode, use this button to open and close the disc tray. This button doesn't work in FM/AM mode.

**C CD**

Press the CD button to play a CD.

**D REPEAT**

In CD mode, use this button to select a repeat mode of CD.

**E PROGRAM**

In CD mode, use this button to program tracks.

**F SHUFFLE**

In CD mode, use this button for shuffle playback.

**G DISPLAY**

In CD mode, use this button to change the display.

**H TRACK INCREMENT**

During recording, use this button to divide tracks.

**I MANUAL/AUTOINCREMENT**

Use this button to select the mode of track number assignment.

**J Record**

Use this button to record CD.

**K REC VOL+/REC VOL -**

Use this button to adjust the record volume.

**L FINALIZE**

Use this button to finalize a CD-R/CD-RW disc.

**M ERASE**

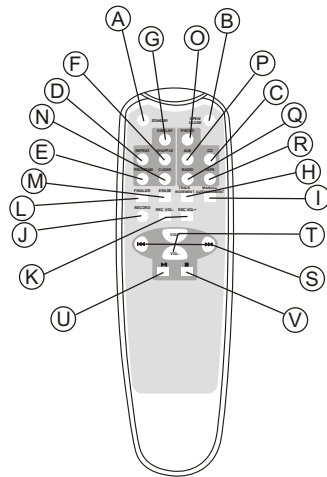
Use this button to erase or unfinalize a CD-RW disc.

**N Clear**

In CD mode, use this button to clear programmed tracks.

**O PHONO**

Press the PHONO button and select PHONO to play a record.



**P AUX**

Press the AUX button and select AUX to listen to the external source connected to the AUX IN jacks.

**Q Radio**

Press the FM/AM button to listen to the radio.

**R TAPE**

Press the TAPE button to play cassette.

**S MUSIC SKIP (◀◀ / ▶▶)**

In CD mode, use these buttons to skip tracks. Hold down these buttons to search for a part of a track.

**T VOL+/VOL-**

Use this button to adjust the volume.

**U PLAY/PAUSE**

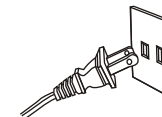
Use this button to play/pause recording, finalizing and erasing.

**V STOP**

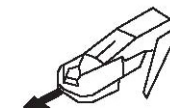
Use this button to stop playback or recording.

**Preparation for Use to the mains**

1. Connect the AC power cord to the mains.



2. Remove white protective needle cover by gently pulling towards front of unit.



3. Release TONE ARM by gently pushing hold-down clip to the right. This will unlock tone arm from its arm rest. Re-lock the hold-down clip when moving the unit to another location.

## Basic Operation

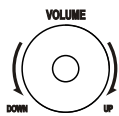
1. Press the POWER switch to turn the Unit on.



2. Select the source by pressing the Corresponding button.

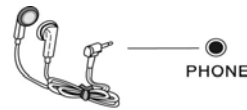


3. Rotate the VOLUME knob clockwise to turn the radio on and adjust to desired sound level.

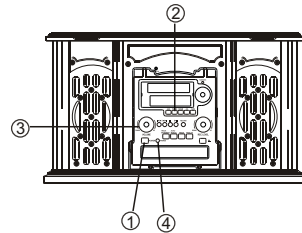


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4. Listening through Earphones/Headphones (Not included).

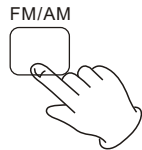


The sound from all speakers is cut off.

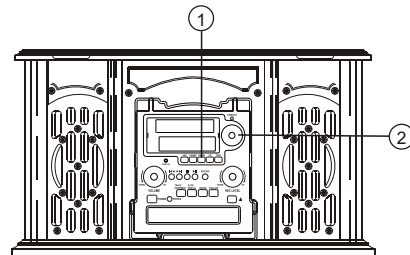
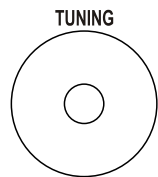


## Listening to the Radio

1. Select FM or AM using the FM/AM button.



2. Tune to the desired frequency.



The TUNED indicator lights when a station is correctly tuned in.  
The STEREO indicator lights when an FM stereo broadcast is tuned in.

### If the reception is poor

#### AM broadcast

Turn around the unit to find the best position for AM stations.

#### FM broadcast

Extend and turn around the FM antenna so that you can receive the station clearly.

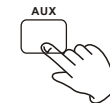
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## Listening to a Record

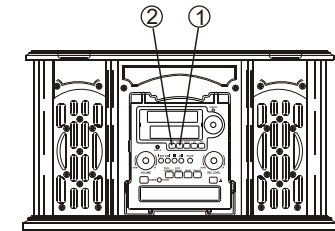
1. Press the PHONO button once to select PHONO.



2. Press the AUX button to select AUX.

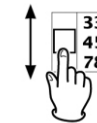


3. Gently open the dust cover.  
Be carefully not to pinch your finger.

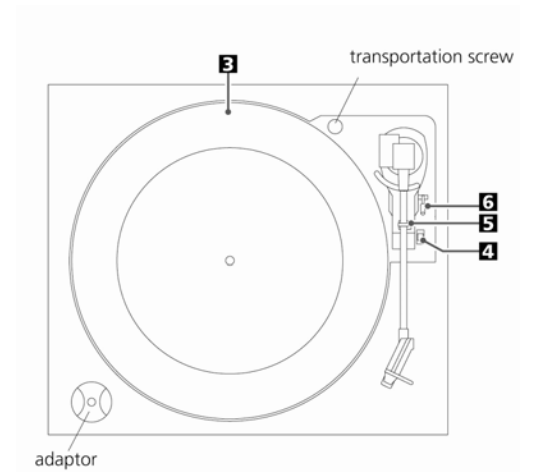
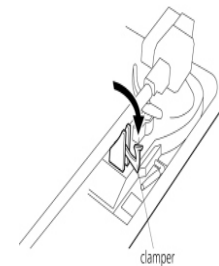


4. Put the record on the turntable.  
When playing a 45 RPM record, use the included adaptor.

5. Select the speed.

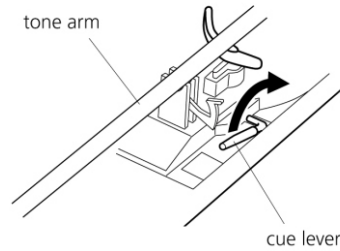


6. Gently push the clammer to the right to release the tone arm.

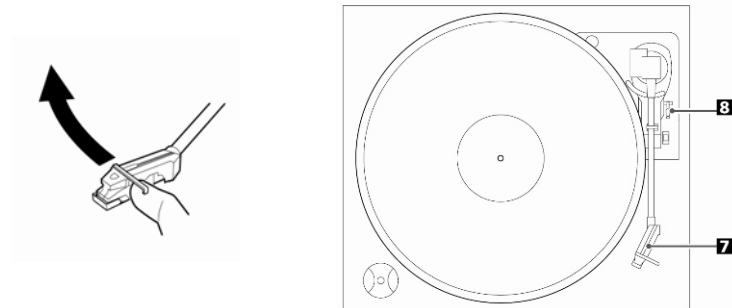


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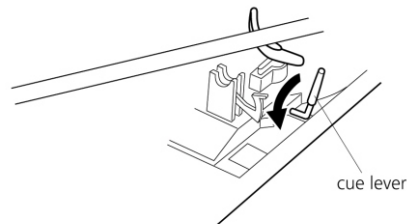
7. Raise the cue lever to lift the tone arm off the tone arm support.



8. Move the tone arm gently to the edge of the record (or the starting point of a track). The turntable will begin to turn.



9. Gently lower the tone arm by slowly releasing the cue lever. You can lower the tone arm manually if the cue lever has not been raised.

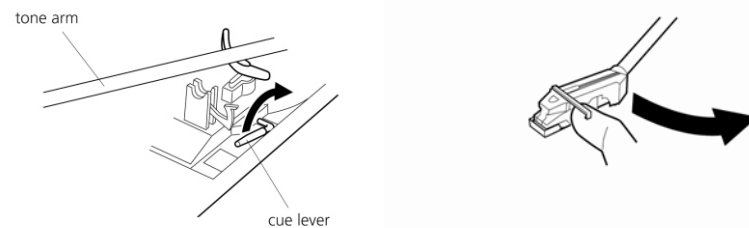


Playing records with the dust cover down will prevent dust from setting on the turntable.

Please do not place anything on top of the turntable cover, especially while playing a record.

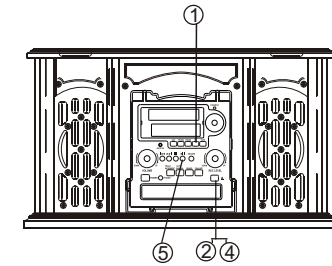
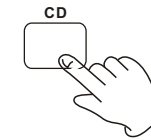
When the playback has been finished, the tone arm automatically returns to the tone arm holder and the rotation stops.

To stop playback manually, slightly lift the tone arm using the cue lever and return it to the tone arm holder.



## Listening to a CD1

1. Press the CD button.

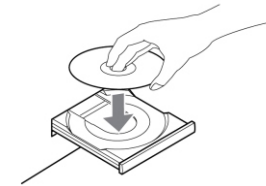


"--- BUSY CD" blinks for a few seconds. When no disc is set, "NO DISC" appears on the display.

2. Press the OPEN/CLOSE button. (▲)

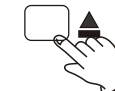


3. Place a disc on the tray with the printed label face up.

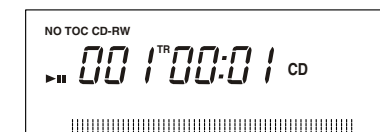


- Never place more than one disc on the tray.
- The disc must be placed in the center of the disc tray. If the disc is not correctly loaded, it may not be possible to open the tray again once it has closed, so you should ensure the disc is always centered on the tray.
- Do not force the tray by hand during opening and closing operations.

4. Press the OPEN/CLOSE button (▲) to close the tray.



- It takes a few seconds for the unit to load the disc. No buttons will work during loading. Wait until the total number of the tracks and the total play time of the disc are displayed.



- The disc type indicator shows the type of disc currently loaded.

**CD:**  
A commercial pre-recorded CD

**CD-R:**  
A finalized CD-R

**CD-RW:**  
A finalized CD-RW

**NO TOC CD-R:**  
A CD-R which has yet to be finalized

**NO TOC CD-RW:**  
A CD-RW which has yet to be finalized

**Blank:**  
No disc or unreadable disc

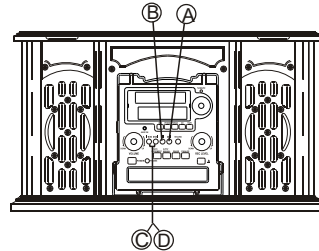
5. Press the PLAY/PAUSE button (▶||) to start playback.



Disc playback starts from the first track, and the PLAY indicator (▶||) lights on the display.

- If you load the disc, and then press the PLAY button without having first closed the disc tray, the disc tray closes and playback starts.

## Listening to a CD2



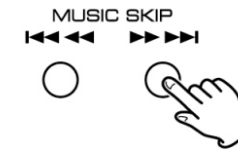
(A) To suspend playback temporarily (pause mode)



Press the PAUSE button (▶||) during playback. Playback stops at the current position.

To resume playback, press the PLAY button (▶||) or the PAUSE button (▶||).

(B) To skip to the next or a previous track



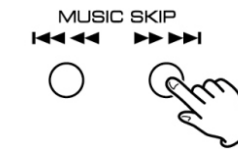
During playback, repeatedly press the SKIP button (I◀◀ or ▶▶I) until the desired track is found.

The selected track will be played from the beginning.

In the stop mode, press the SKIP button (I◀◀ or ▶▶I) repeatedly until the track you want to listen is found, and press the PLAY button (▶||) to start playback from the selected track.

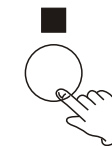
When the (I◀◀) button is pressed during playback, the track being played will be played from the beginning. To return to the beginning of the previous track, press the (◀◀) button twice.

(C) Search for a part of a track



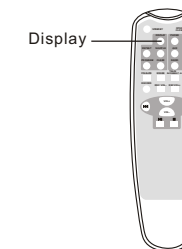
During playback, hold down the SKIP button and release it when the part you want to listen to is found.

(D) To stop playback

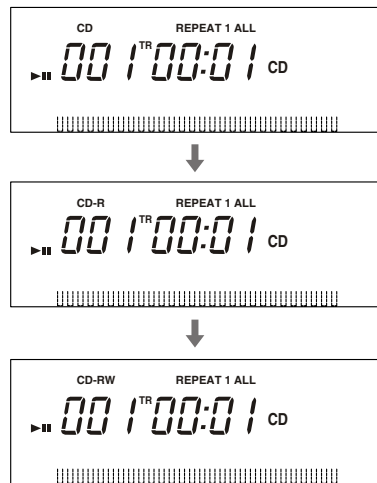


Press the STOP button (■) to stop playback.

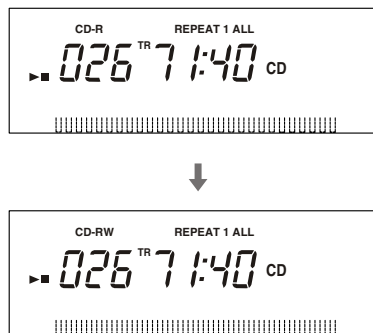
## Time Display



Each time the DISPLAY button is pressed, the display changes as follows:



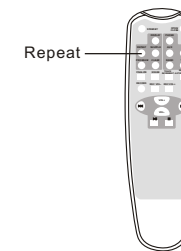
**Unfinalized CD-R/CD-RW, stopped**



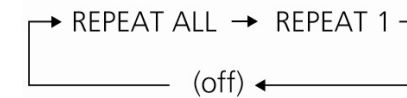
**During recording**



**Repeat Playback**



Each time the REPEAT button is pressed, the repeat mode is changed as follows:



**REPEAT ALL (Repeat ALL the Tracks)**

Press the REPEAT button once during playback. All the tracks of the disc will be played repeatedly.

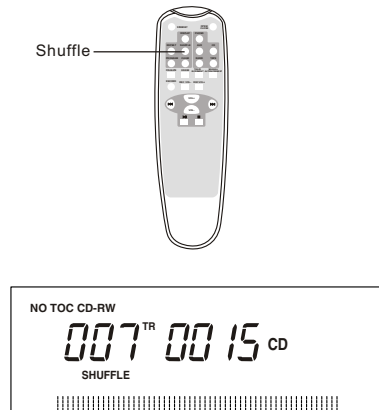
**REPEAT 1 (Repeat one track)**

Press the REPEAT button twice during playback. The track being played will be played repeatedly. If you press the MUSIC SKIP button and select another track, the track you select will be played repeatedly.

It is also possible to select a track to be repeated in the stop mode. Press the REPEAT button twice and then select the track number by pressing the MUSIC SKIP button. Press the PLAY button to start playback.

- If one of the following buttons is pressed, repeat mode will be cancelled:  
OPEN/CLOSE, POWER, FM/AM, PHONO, AUX
- Repeat playback works with finalized disc only.

## Shuffle Playback



The tracks can be played randomly. Press the SHUFFLE button during playback. (In the stop mode, press the SHUFFLE button and the PLAY button)

when the SHUFFLE playback of all the tracks has been finished, the unit stops and the shuffle playback mode is cancelled.

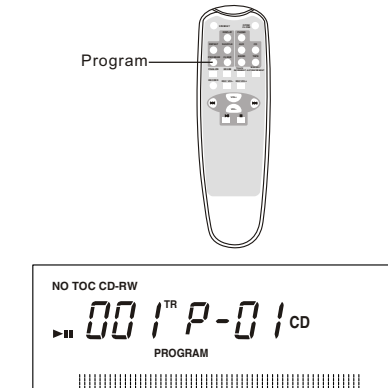
- If you press the (▶▶) button during shuffle playback, next track will be randomly selected and played. If you press the (◀◀) button, the currently played track will be played from the beginning. A track cannot be replay during shuffle playback.
- Shuffle playback doesn't work during programmed playback.
- If one of the following buttons is pressed, shuffle mode will be cancelled:  
SHUFFLE in the stop mode, OPEN/CLOSE, POWER, FM/AM, PHONO, AUX.
- Shuffle playback works with finalized disc only.

## Programmed Playback

Up to 32 tracks can be programmed in the desired order.

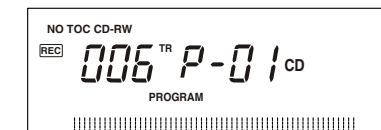
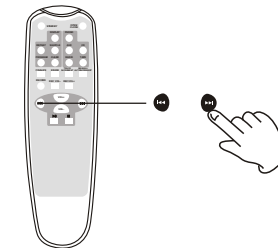
- Insert a disc and select "CD" before beginning programming.
- Shuffle playback does not work during programmed playback.
- Programmed playback works with finalized disc only.

**1 Press the PROGRAM button in the stop mode.**

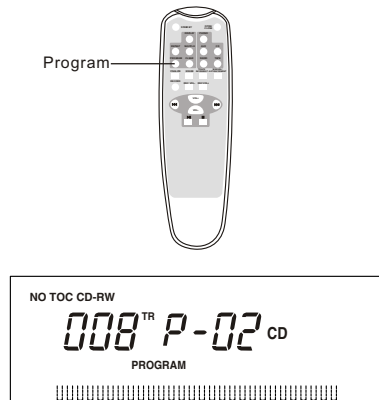


"PROGRAM" indicator blinks, and "P-01" appears on the display.

**2 Press the MUSIC SKIP button (◀◀ or ▶▶) to select a track.**



**3 Press the PROGRAM button.**

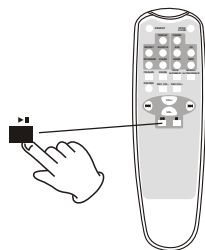


The track is programmed, and "P-02" is display.

Repeat step 2 and 3 to program more tracks.

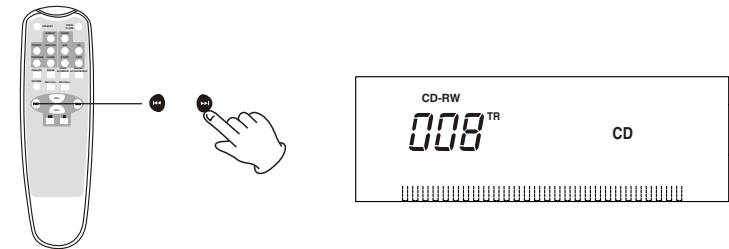
- You can program up to 32 tracks.
- To cancel the program mode, press the STOP button ( ■ ).

4. When the selection of track numbers has been finished, press the PLAY button ( ►► ) to Start program playback.



**To check the programmed order**

In the stop mode, press the MUSIC SKIP button repeatedly to show the track numbers that have been stored in memory.

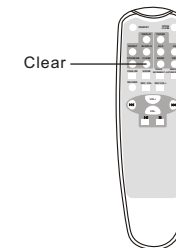


**To add a track to the end of the program**

In the stop mode, press the PROGRAM button. Select a track number by pressing the MUSIC SKIP button, and then press the PROGRAM button. The track is added to the end of the program.

**To delete the last track from the program.**

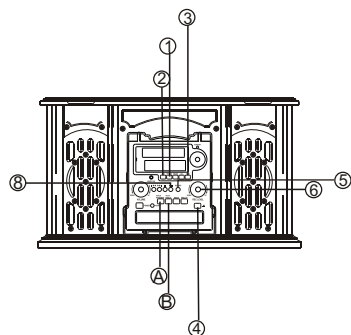
In the stop mode, press the CLEAR button to delete the last track from the program.



**To clear the program**

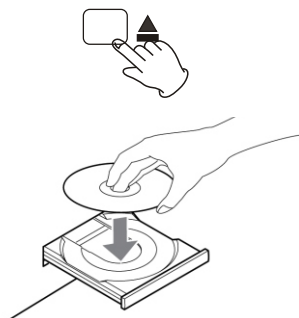
If one of the following buttons is pressed, the programmed contents will be cleared:  
OPEN/CLOSE, POWER, FM/AM, PHONO, AUX, STOP in the stop mode

## Recording



Audio from the PHONO, TAPE or AUX sources can be recorded on the CD recorder.

1. To record a record, select PHONO.
2. Record an external source, press the AUX button and connected the cable to the AUX IN jacks at the back, Select AUX.
3. To record the cassette tape.
4. Load a recordable CD-R or CD-RW disc into the unit.



Press the OPEN/CLOSE button (▲), place a disc on the disc tray with the printed label side up, and then press the OPEN/CLOSE button (▲) to close the disc tray.

The display will show "Busy CD" and the disc is reading, waiting until the reading is complete before next step.

Make sure "NO TOC" and "CD-R"(or "CD-RW") indicators lights on the display, or the RECORD button in step 4 will not work.

### A. Select the more of track number assignment with Track Increment.

#### TRACK INCREMENT

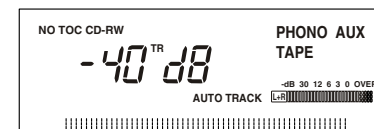
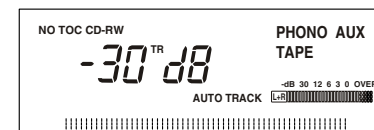
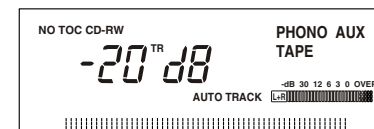
The unit doesn't divide tracks.

The unit will record the next track when you press the TRACK INCREMENT button every time. Maybe the current track doesn't finish the recording, but if you press the TRACK INCREMENT button, the unit will record the next track.



### B. Select tracks automatically division assignment with AUTO MANUAL.

If you are busy, select tracks automatically division assignment with AUTO MANUAL button, when the sound level has dropped below the -20db/-30db/-40db (record signal) for more than 2 seconds, the current track will automatically stop, and record another one. And you only can set a sort of record signal every time.

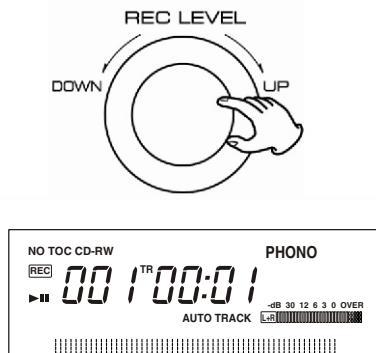


5. Press the RECORD button to adjust the recording level using the REC level knob, The display will show from 00 to 79, then press the (▲) button.



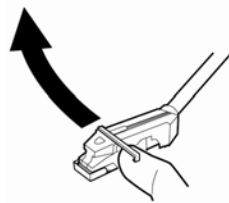
- "REC" and (▶) will appear on the display, and the unit enters record pause mode.
- No button will work while "busy" is displayed. Wait a few seconds until "busy" disappear from the display.
- Reload a recordable disc, wait a few seconds until "NO TOC" and "CD-R" (or "CD-RW") indicators light on the display, and press the RECORD button again.

6. If necessary, adjust the recording level using the REC LEVEL knob, the display will show from 00 to 79, then press the (▲) button.



Play the source to be recorded and adjust the recording level so that the loudest sound does not exceed the "OVER" indicator on the peak level meter.

7. If PHONO is selected in step 1, gently lower the tone arm onto the edge of the record (or the track to be recorded).



8. Press the PLAY/ PAUSE button to start recording.



9. If AUX selected in step 1, play the source to be recorded.

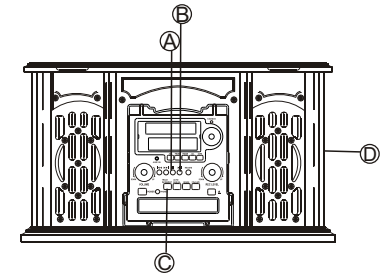
When the playback of the source has been finished, press the STOP (■) button to stop recording.

When the rotation of the turntable stops, the recording will stop automatically. But to prevent unwanted noise from the tone arm being recorded, stop the recording manually by using the STOP button.

### A To stop recording



Press the STOP button (■) to stop recording. The display will show "Busy", after the "Busy" is disappear, then press CD button, the display Will show the record track time.



### B To suspend recording temporarily (pause mode)



Press the PAUSE button (▶||). "busy" briefly appears on the display, and the recording is paused.

To restart recording, press the PLAY button (▶) or the PAUSE button (▶||).

You cannot restart recording while "busy" is displayed.

Remember that every time recording is paused or stopped, a new track number will always be assigned. It is not possible to record in two "stages" within one track.

### C Manual track division

It is possible to divide the recording into tracks while recording.

While recording is taking place, press the TRACK INCREMENT button. The current track number will be incremented by one.



The TRACK INCREMENT button works regardless of the MANUAL/AUTO REC setting. This section deals with the actions taken after recording.

Once finalized, CD-R discs are truly final. No more tracks can be recorded on them. By contrast, CD-RW disc can be "unfinalized", and if there is space, further material can be recorded on them.

## D. Cassette Tape

### Tape Handling:

Do not store tapes in the following places:

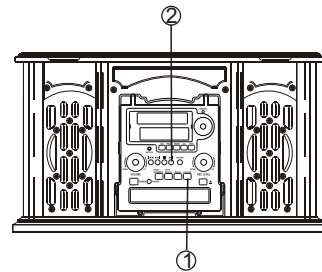
1. On top of heaters, exposed to direct sunlight or in any other places with high temperatures.
2. Near speakers, on TV sets or amplifiers or where they would be exposed to strong magnetic fields.
3. Where humidity is high and in dirty, dusty places.
4. Avoid dropping or subjecting cassettes to excessive shocks.
5. As C-120 tapes are physically weak and could become entangled in the transport mechanism, do not use them.

### Listening to TAPE

1. Load Cassette Tape into the unit (located on side of the unit) Playback will automatically begin.
2. Press button halfway to Fast Forward the Tape. Press button lightly and playback will resume.
3. Press button all the way to end playback and eject Tape.

## Finalizing

As has been explained earlier, in order for a disc to become a standard CD, it must have a Table of Contents(TOC) written to it. This Process is known as finalizing.



### 1. Press the FINALIZE button in the stop mode.

"FiN-d" appears on the display.

- To cancel the finalizing process, press the STOP button (■).



### 2. Press the PLAY (▶) button to start finalizing.

The display will show "--- Busy" during finalize, wait until the busy disappear to complete the finalize.

The finalize time is subject to the contents of record, it may take few minutes in some case.

When the operation has been finished, the NO TOC indicator turns off and the display returns to the track/time display.

During finalizing, no button works.

Never turn the power off nor unplug the power cord.



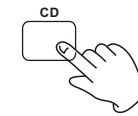
- Although finalized CD-R discs may be played on ordinary CD players, remember that finalized CD-RW disc may not play on ordinary CD players.

## Erase or Unfinalize a CD-RW

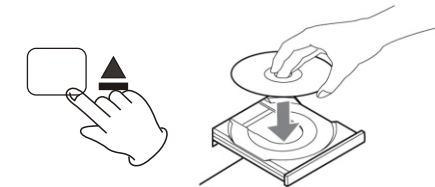
It is possible to erase the last recorded track, it is also possible to erase a whole disc.

Erase procedures are possible only on an unfinalized CD-RW disc. If a CD-RW disc has been finalized, unfinalize it prior to erasure. Remember that it is not possible to perform any Erase or unfinalize procedures on a CD-R disc.

### 1. Press the CD button to select "CD".



### 2. Load a recorded CD-RW.



### 3. Press the ERASE button in the stop mode.



"-- Busy" (unfinalize) appears when a finalized disc is loaded.

- (1). Wait until "Busy" disappear on the display.
- (2). Press the ERASE button, "ErR Al" will appear on the display.
- (3). Press the (▶||) button to begin erase the last track.
- (4). Repeat to press Erase button to continue the next track.

"Er" and the last track number appear when the disc hasn't been finalized. Each time the ERASE button is pressed, the display changes as follows:

### "Er" and the number of the last track recorded on the disc

Select this to erase the last track on the disc.

- This will not appear when only one track is recorded on the disc.

## Er All

Select this to erase all the tracks.

To cancel the erasing or unfinalizing process, press the STOP button (■).

### 4. Press the PLAY button (▶||) to start erasing or unfinalizing.

- (1). Press and hold the "Erase" button till the display show "Erase All".
- (2). Press play (▶||) button to begin the erase.
- (3). Display will show 0000000 to confirm the disc is clear.



The remaining time for the operation appears in the display. When the operation has been finished, the display returns to the track/time display.

During erasing/unfinalizing, no buttons will work.  
Never turn the power off nor unplug the power cord.

- This operation cannot be undone. If you are going to erase a track or tracks, make sure that they are recordings that you really want to erase.

The copy CD-RW disc from other unit can't be erased one by one in this unit, but can be erase all.

## Specifications

### AMPLIFIER section

Output Power.....2.5 W + 2.5 W  
Frequency Response.....60 to 20, 000 Hz

### TUNER section

FM Section  
Frequency Range.....88 to 108 MHz  
AM Section  
Frequency Range.....530 to 1710 KHz  
CD PLAYER section  
Frequency Response.....60 to 20, 000 Hz +/-4 dB  
Signal-to-Noise Ratio.....55 dB (IEC-A)

### CASSETTE DECK section

Track System.....4 Track, 2 channel stereo  
Tape Speed.....4.8 cm/sec  
Wow and Flutter.....0.4% (WRMS)  
Frequency Response.....125 to 6300 Hz +/-6 dB

### RECORD PLAYER section

Motor.....DC servo motor  
Drive System.....Belt Drive  
Speeds.....33-1/3 rpm, 45 rpm and 78 rpm  
Wow &Flutter.....Less than 0.35% (WTD)  
S/N Ratio.....More than 50 dB  
Cartridge Type.....Ceramic Stereo Cartridge  
Stylus.....402-M208-165  
Output Level.....160-380 mV (5 cm/sec at 1 KHz)

### SPEAKER SYSTEM section

Type.....1-way  
Impedance.....4 ohms  
Input Power.....Max. 10 W

### GENERAL

Power Requirements.....AC 120 V~ 60 Hz  
Power Consumption.....60 W  
Dimensions(W x Hx D).....20.1"x12.2"x13.6"(approx.)  
Weight.....29.1 lbs. (approx.)  
Standard Accessories.....Operating Instruction Booklet  
45 rpm Adapter

## Troubleshooting Guide

In case of trouble with the unit, please look through this chart and see if you can solve the problem by yourself before calling your dealer.

	Problem	Cause	Solution
THE WHOLE UNIT	Power does not come on when the power switch is pressed.	Unit is unplugged.	Connect the unit to the AC power supply.
	No sound comes out of the speakers.	The volume is turned down (to MIN). The input selector does not match the playback source.	Adjust the volume. Re-select the desired input source.
	The sound is noisy.	The unit is too close to a TV set or another similar appliance.	Turn off the TV or other appliance, and relocate the unit.
TAPE DECK	The cassette deck door cannot be closed.	The cassette tape is not inserted properly.	Insert the cassette tape correctly.
	The tape does not move.	The cassette tape is not inserted properly. The tape has reached the end.	Insert the cassette tape correctly. Flip the cassette.
	No sound from tape.	The tape heads are dirty.	Clean the tape heads.
	Cannot record.	The write-protect tabs on the cassette have been broken off. The tape heads are dirty. You are trying to record on metal (Type IV) tape.	Tape over the holes with cellophane tape. Clean the tape heads. Use a normal (Type I) tape.
	When recording over a previously recorded tape, the original signal can still be heard.	The tape heads are dirty. You are trying to record on metal (Type IV) tape.	Clean the tape heads. Use a normal (Type I) tape.
	The sound is distorted or faint.	The tape heads are dirty.	Clean the tape heads.
TUNER UNIT	Cannot listen to any station, or signal appears weak.	The station is not tuned-in properly. A TV set is being used nearby and is interfering with the radio reception.	Properly tune-in the desired station. Turn-off the interfering TV set.
	The sound is distorted.	The antenna is not oriented properly.	Re-orient the antenna until reception improves.
CD PLAYER	CD stops immediately after starting, or unit pauses or stops during play.	The CD is inserted upside down. The CD is dusty or dirty or there is condensation on the CD.	Insert the CD with the printed side right-side up. Carefully clean and dry the CD.
	No sound.	The CD player is paused.	Press the PLAY/PAUSE button.
	Specific CD is noisy, or playback stops or skips.	The CD is scratched, damaged or warped. The disc is very dirty.	The CD should be changed. Carefully clean the CD.

## Innovative Technology Electronics Corp. Limited Warranty 90 Days Labor, One Year Parts

Innovative Technology Electronics Corp. (IT) warrants the product to be free from "Defects" in materials under normal use for a period of "One Year" from the date of the original purchase. The Warranty is "Not" transferable. IT agrees, within the initial "90 Day" period, to repair the product if it is determined to be defective at "No Charge". It is further agreed that IT will cover the cost to repair or replace damaged "Parts" only for a total period of "One Year" from the date of the original purchase. The warranty does not cover cosmetic damage, antennas, AC cords, cabinets, headbands, ear-pads, or damage due to line power surges, connection to improper voltage supply or settings, misuse, mishandling, accident, acts of God or attempted repair by an unauthorized service agent.

To obtain service please contact IT for Merchandise Return Authorization (MRA) number by sending a self addressed stamped envelope to the address below. The original purchaser MUST present a sales receipt / proof of purchase indicating date of purchase, amount paid, and place of purchase. Send the unit prepaid to the address below in the original packaging or reasonable substitute to prevent damage. You "Must" include your full name, shipping address and telephone number and Merchandise Return Authorization (MRA) number for our reference. No return will be shipped back to a PO Box. Please include your check or money order in the amount of \$12.00, payable to Innovative Technology Electronics Corp., to cover handling and return shipping charges. IT will not be responsible for delays or unprocessed claims resulting from a purchaser's failure to provide any or all of the necessary information.

**Send all inquires or returns to:**  
Customer Service Dept.  
Innovative Technology Electronics Corp  
1 Channel Drive, Port Washington, NY 11050  
Tel : 516-883-8220

*There are no express warranties except as listed above.*

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CUSTOMER, IT SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

*Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.*

### FCC Statement

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. 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 the instructions, may 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 the 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.