

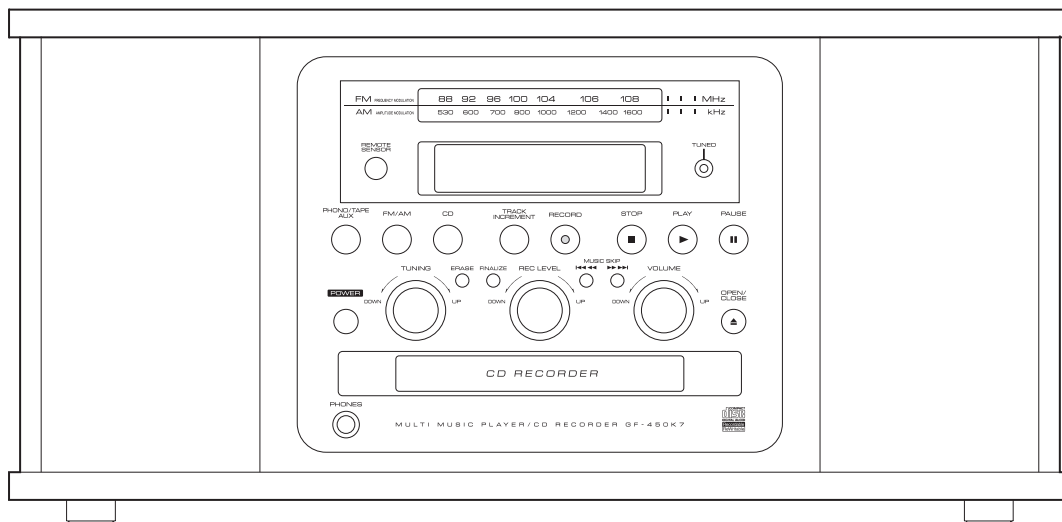
# TEAC

# GF-450K7



## CD recorder with turntable/cassette player

### OWNER'S MANUAL





**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



CAUTION: 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 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 of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus draws nominal non-operating power from the AC outlet with its STANDBY/ON switch in the standby position.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- An apparatus with Class I construction shall be connected to an AC outlet with a protective grounding connection.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.
- Excessive sound pressure from earphones and headphones can cause hearing loss.

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

**CAUTION**

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS ARE WITHIN!
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT TEAC FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

**For U.S.A.**

This equipment has been tested and found to comply with the limits for a 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 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 equipment and/or 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.

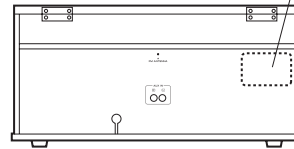
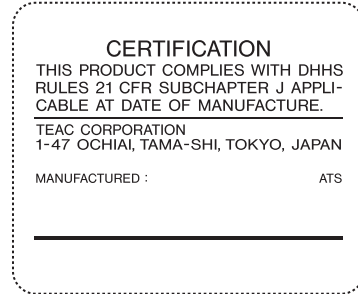
**CAUTION**

Changes or modifications to this equipments not expressly approved by TEAC CORPORATION for compliance will void the user's warranty.

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown ①.

① For U.S.A.



**Optical pickup :**

- Type : SF-W37SGT
- Manufacturer : SANYO ELECTRIC CO., LTD.
- Laser output : Less than 1 mW (Play) on the objective lens  
Less than 5 mW (Record) on the objective lens  
Less than 10 mW (Erase) on the objective lens
- Wavelength : 783 nm

## Contents

**Thank you for choosing TEAC. Read this manual carefully to get the best performance from this unit.**

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## Before using the unit

### Read this before attempting any operations

- The nominal temperature should be between 5°C and 35°C (41°F and 95°F). The CD-RW recorder is more sensitive to extremes of temperature than ordinary CD players.
- Relative humidity should be 30 to 90 degrees noncondensing.
- As the unit may become warm during operation, always leave sufficient space around the unit for ventilation.
- The voltage supplied to the unit should match the voltage as printed on the rear panel. If you are in any doubt regarding this matter, consult an electrician.
- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, heat, cold or moisture.
- Do not place the unit on an amplifier/receiver.
- 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 unit, contact your dealer or service company.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank the cord.
- To keep the laser pickup clean, do not touch it, and always close the disc tray.
- Do not attempt to clean the unit with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- Keep this manual in a safe place for future reference.

### DO NOT MOVE THE UNIT DURING PLAYBACK

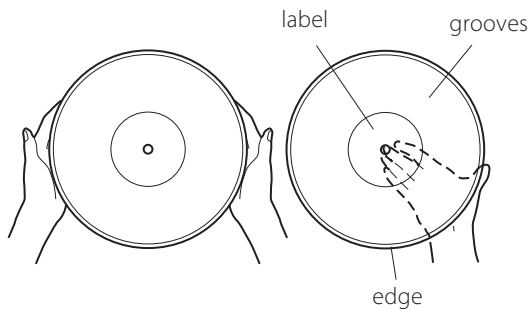
During playback, the disc rotates at high speed. Do NOT lift or move the unit during playback. Doing so may damage the disc or the unit.

### WHEN MOVING THIS UNIT

When changing the unit's location or packing the unit for moving, be sure to remove the record or disc. Moving this unit with the record or disc loaded may result in damage to this unit. If the unit is to be packed and moved a great distance, it is also advisable to tighten the turntable transport locking screw. See Page 9 for instructions.

## Handling Records

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



- Keep your records away from dust. Keep them in a cool, dry place.
- To avoid dust and scratches, keep records in their sleeves and jackets when not in use.
- Store records upright on their edges. Records stored horizontally will eventually bend and warp.
- Do not expose records to direct sunlight or high humidity and temperature. Long exposure to high temperatures will warp the record.
- Do not store your records in the trunk of your car. The temperature in a closed trunk can ruin your collection.
- Store records in an area with stable temperature and humidity.
- Should the record become dirty, gently wipe the surface in a circular motion, using a soft anti-static cloth. Commercial record cleaning systems are available from many retailers or on-line. TEAC does not endorse any specific product but, depending on the condition of your record collection, it may be advisable to look into one of these systems. Clean records protect your stylus from undue wear.



## 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.

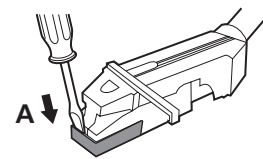
Prolonged use of a worn-out stylus may damage the record.

Wear and tear on the stylus will be accelerated when playing 78 RPM records. The higher speed of 78 RPM records wears the stylus more quickly.

### Caution:

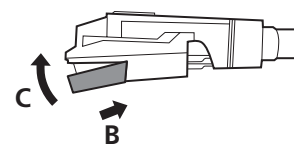
- Do not remove or bend the stylus.
- To avoid injury, do not touch the needle.
- Turn off the unit's power before you replace the stylus.
- Keep out of the reach of children.
- Handle with care, as the stylus is delicate. Use of a bent or broken stylus may damage the record and cause the turntable to malfunction.
- Do not expose stylus to extreme heat.
- Contact a qualified repair company if you experience difficulty in changing the stylus.

When removing the stylus (red part), hold the cartridge with your hand, press down the uneven part in front of the stylus using a small screw driver in direction A, and pull it to detach.



### 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 in the direction "C" until it locks at the tip.



The replacement stylus for this GF-450K7 is a STL-103. A SPL-102 (2 pieces) for use with SP records only is also available. Please contact TEAC Parts at (323) 726-0303, extension 840 to order. Or call our automated Service Agency Locator at: (800) 447- TEAC for the closest authorized repair company that can replace the stylus for you.

# Discs

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



This unit **CANNOT RECORD** CD-R and CD-RW discs designed for computer systems.



In this manual, although we refer to "CD-R" and CD-RW" discs, 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/or the condition of the recording, some CD-R/CD-RW discs may not be playable.
- Copy-protected discs and other discs which do not conform to the CD standard may not play back correctly in this player. If you use such discs in this unit, TEAC Corporation and its subsidiaries cannot be responsible for any consequences or guarantee the quality of reproduction. If you experience problems with such non-standard discs, you should contact the producers of the disc.
- 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 remove 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.



How to remove the disc



How to hold the disc

- Should the disc become dirty, wipe the surface radially (from the center hole outward towards the outer edge) with a soft, dry cloth:



- Never use such chemicals as record sprays, antistatic sprays or fluid, benzine 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 pickup to "skip."
- Do not expose discs to direct sunlight or high humidity and temperature for extended periods. Long exposure to high temperatures will warp the disc.
- Do not play any disc that is warped, deformed or damaged. Playing such discs may cause irreparable harm to the playing mechanisms.
- CD-R and CD-RW discs are more sensitive to the effects of heat and ultraviolet rays than ordinary CDs. It is important that they are not stored in a location where direct sunlight will fall on them, and away from sources of heat such as radiators or heat-generating electrical devices.
- Printable CD-R and CD-RW discs aren't recommended, as the label side might be sticky and damage the unit.
- Do not stick papers or protective sheets on the discs and do not use any protective coating spray.
- 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.
- Never use a stabilizer. Using commercially available CD stabilizers with this unit will damage the mechanisms and cause them to malfunction.
- 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 are in any doubt as to the care and handling of a CDR/ CD-RW disc, read the precautions supplied with the disc, or contact the disc manufacturer 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.

## Finalizing

Although audio data may be written on a CD-R or CD-RW disc, a standard CD player will not be able to play back the audio until a final table of contents (TOC) has been written at the start of the disc.

The process of writing this table of contents is known as "finalizing". Once this has been done, no further data can be written to the disc.

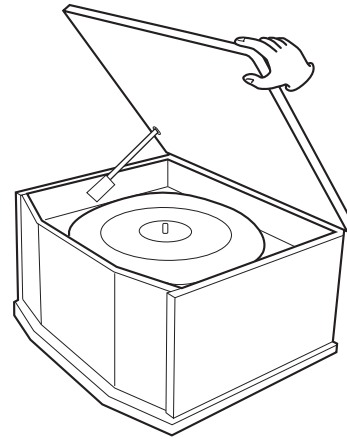
Note that a CD-RW disc that has been finalized can be "unfinalized". This allows further tracks to be recorded to the disc, provided that there is space on the disc.

- Repeat, shuffle and programmed playback don't work with unfinalized (NO TOC) discs.

## Recordable discs

In this manual, we use the term "recordable" disc to describe a CD-R or CD-RW disc that has not been finalized, and has enough space to record.

## How to open/close the turntable cover



### To Open:

1. Lift the turntable cover all the way up until it stops.
2. Lower the cover slowly until the latch engages.
3. The cover will now stay open. If the latch does not engage, repeat these steps again.

### To Close:

1. Lift the cover all the way up until it stops.
2. The latch should disengage and you may now slowly lower the cover.
3. Make sure you grasp the cover by the edges to avoid pinching your fingers as it closes.

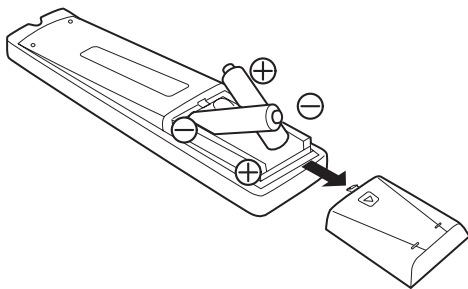
# Remote Control Unit

The provided Remote Control Unit allows the unit to be operated from a distance.

When operating the remote control unit, point it towards the REMOTE SENSOR on 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



- 1** Remove the battery compartment cover.
- 2** Insert two "AA" (R6, SUM-3) dry batteries. Make sure that the batteries are inserted with their positive "⊕" and negative "⊖" 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 replace the batteries 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-rechargeable 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.



# Handling Cassette Tape

## Instructions for use

- Do not open a cassette or pull out the tape.
- Do not touch the tape.
- Do not leave cassette tapes in a place with a lot of rubbish or dust.
- Do not use or store cassette tapes in an area with high temperatures or humidity.
- Keep cassette tapes away from magnets or magnetized items because they may cause noise or erase recorded contents.

## Cassette tapes to avoid

The following cassette tapes may prevent the unit from performing normal operation or functions. The tape of such cassette tapes may get caught, causing unexpected problems.

### Cassette tapes with poor form accuracy

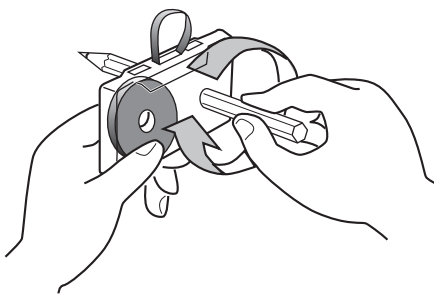
Deformed cassettes, ones of which tape does not track properly, or ones that generate abnormal noise during fast-forwarding or rewinding.

### Long-recording tapes

Tapes for recording 90 minutes or longer sometimes get caught by the capstan because they are extremely thin and stretch easily. Avoid using them as much as possible.

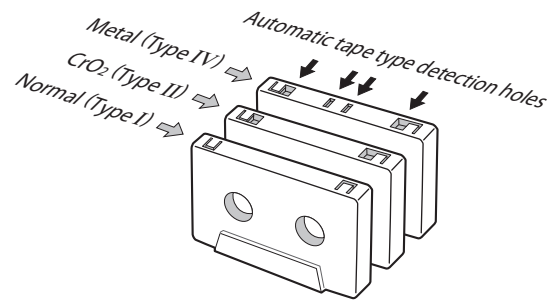
## Slackening of tapes

Slackened tapes may get caught by the capstan or other parts. Eliminate slack by using a pencil or alike before use.



## Tape types

There are several types of cassette tapes



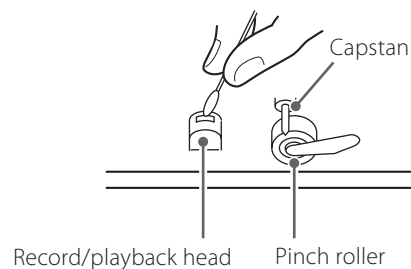
- When playing a normal tape (type I), set the Tape Selecting switch by the turntable to "normal." When playing a chrome tape (type II) or metal tape (type IV), set the switch to "high."



## Cleaning and demagnetizing the cassette deck

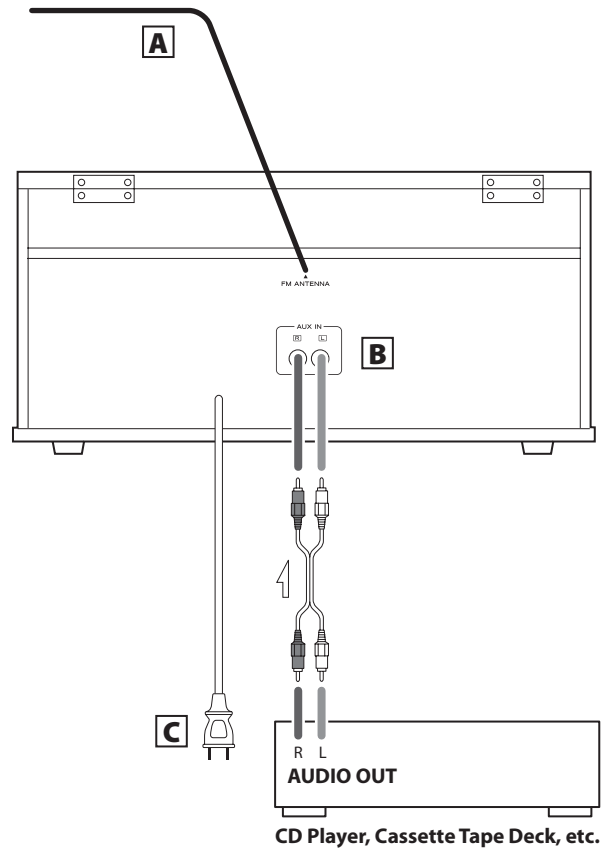
A dirty head causes poor sound quality or sound skip. Dirt on the tape tracking roller may catch the tape. Clean the head, pinch roller, and capstan with a cotton applicator dampened with a commercially available cleaning solution every ten hours of use.

When the head is magnetized, it increases noise and hinders the unit from transmitting high notes. When these problems occur, demagnetize the head using a commercially available head eraser.



Do not insert a cassette tape until the cleaning solution on the head dries.

# Connection



## 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.

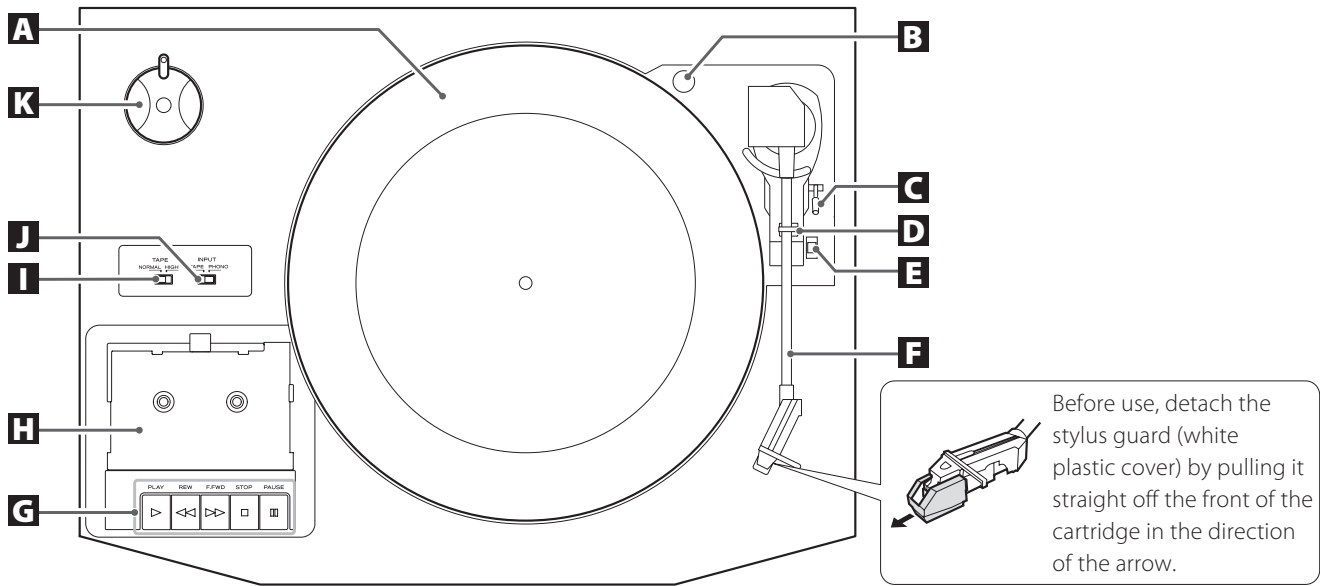
## **B** AUX IN jacks

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 AC power cord into an AC wall socket.

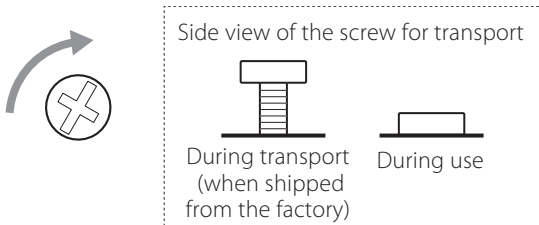
# Parts of the Turntable



## 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 holder

## E speed selector

## F tone arm

## G Cassette tape operation button

### Play (▶)

Use this button to play a tape.

### Fast-forward (▶▶)

Use this button to fast-forward a tape.

### Rewind (◀◀)

Use this button to rewind a tape.

### Stop (■)

Use this button to stop playing a tape.

### Pause (II)

Use this button to suspend playing/recording temporarily.

Never press the Play button (▶) and Rewind button (◀◀) at the same time.

## H Cassette holder

Set a cassette tape with the exposed tape in front and the side to play facing up.

## I Tape Selecting switch

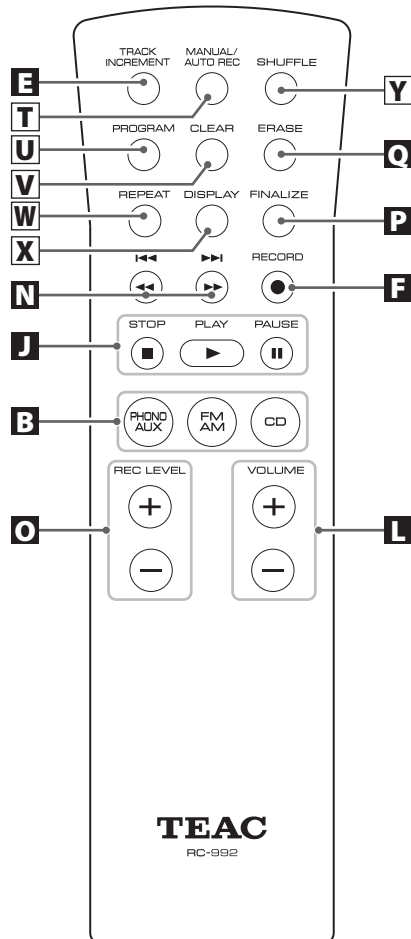
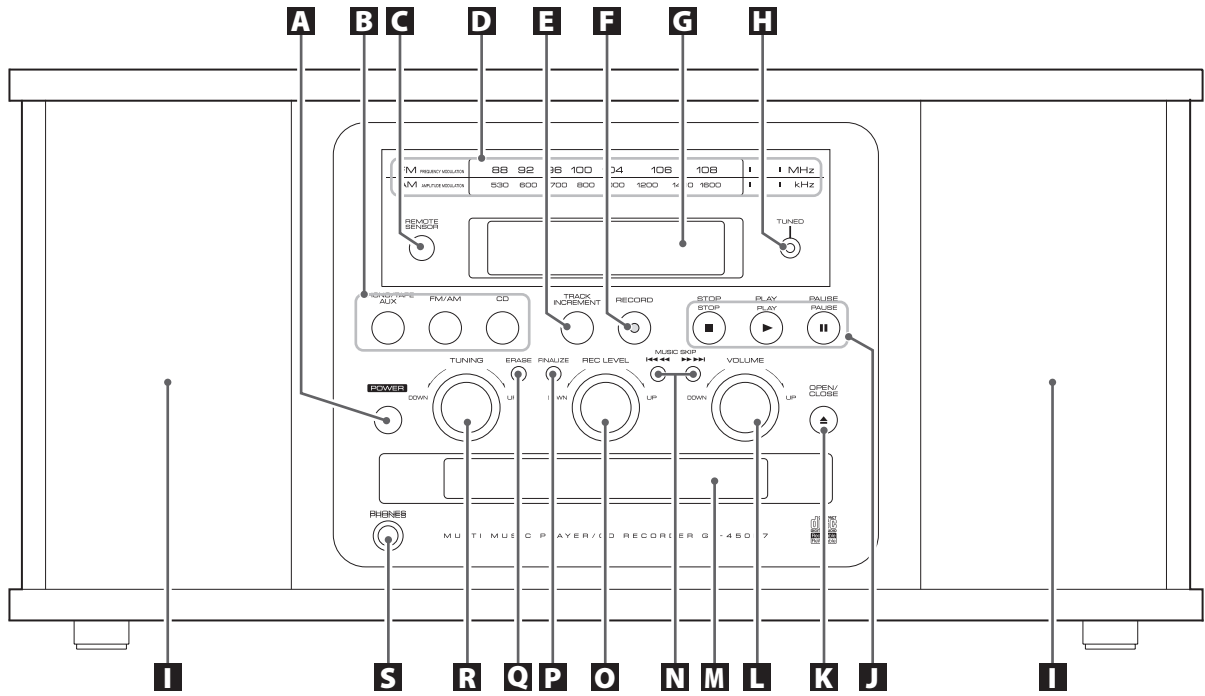
When playing a normal tape (type I), set the Tape Selecting switch to "normal." When playing a chrome tape (type II) or metal tape (type IV), set the switch to "high."

## J Input Selecting switch

When PHONO/TAPE is selected by pressing the corresponding button, use this switch to switch between "RECORD" and "TAPE." When a record or cassette tape is playing, make sure to stop playing prior to using the switch.

## K 45 RPM adaptor

# Unit Functions and Remote Control



## **A POWER**

Press this button to turn the unit on or off.

## **B PHONO/TAPE/AUX, FM/AM, CD**

Press the PHONO/TAPE/AUX button and select PHONO to play a record.

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

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

Press the CD button to play a CD.

## **C Remote Sensor**

When operating the remote control unit, point it towards the REMOTE SENSOR.

## **D Display panel (frequency)**

When the unit is on, this display will light.

## **E TRACK INCREMENT**

During recording, use this button to divide tracks.

## **F RECORD**

Use this button to enter record pause mode.

## **G Display**

## **H TUNED indicator**

Lights when a station is correctly tuned in.

## **I Speakers (stereo)**

## **J CD operation buttons**

### **STOP (■)**

Use this button to stop playback or recording.

### **PLAY (▶)**

Use this button to start playback, recording, finalizing and erasing.

### **PAUSE (⏸)**

Use this button to pause playback or recording.

## **K OPEN/CLOSE**

In CD or PHONO/AUX mode, use this button to open and close the disc tray.

- This button don't work in FM/AM mode.

## **L VOLUME**

Turn this knob to adjust the volume.

## **M Disc Tray**

## **N MUSIC SKIP (◀◀ / ▶▶)**

In CD mode, use these buttons to skip tracks.

Hold down these buttons to search for a part of a track.

## **O REC LEVEL**

In record pause mode, use this knob to adjust the recording level.

## **P FINALIZE**

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

## **Q ERASE**

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

## **R TUNING**

In FM/AM mode, turn this knob to tune in a station.

## **S 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 speakers will be cut off while the headphones are plugged in.

## **T MANUAL/AUTO REC**

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

## **U PROGRAM**

In CD mode, use this button to program tracks.

## **V CLEAR**

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

## **W REPEAT**

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

## **X DISPLAY**

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

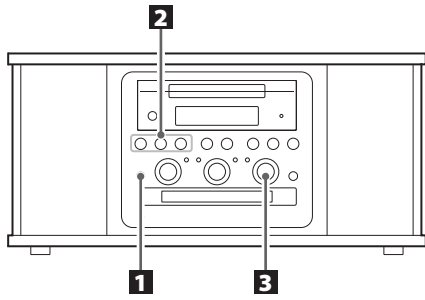
## **Y SHUFFLE**

In CD mode, use this button for shuffle playback.

### **Note:**

To simplify explanations, instructions refer to names of buttons and controls on the front panel, making no mention of the use of remote control unit.

## Basic Operation



**1** Press the **POWER** switch to turn the unit on.

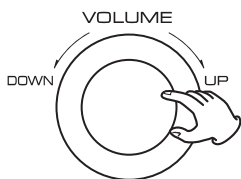


**2** Select a source by pressing the corresponding button.

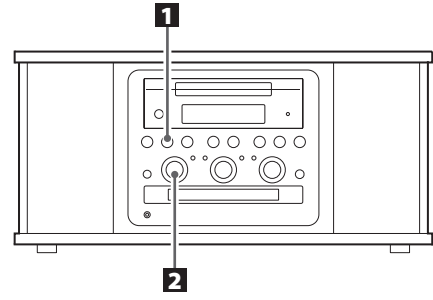


- To listen to an external source connected to AUX jacks, select AUX by pressing the PHONO/AUX button once or twice. When PHONO/TAPE is selected, set the Input Selecting switch by the turntable to "RECORD" or "TAPE."

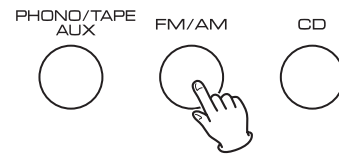
**3** Play the source, and adjust the volume by turning the **VOLUME** knob.



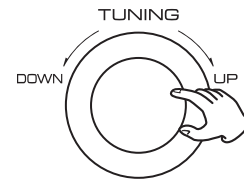
## Listening to the Radio



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



**2** Turn the **TUNING** knob to tune in a station.



- 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

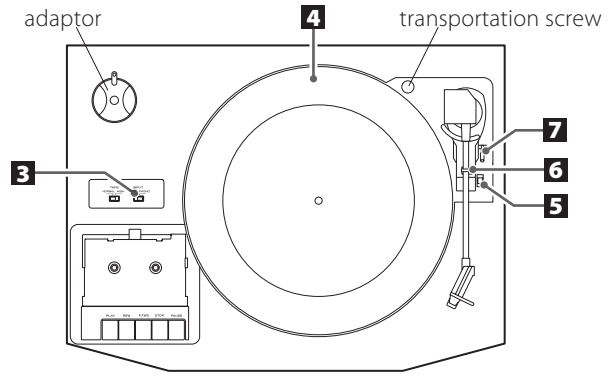
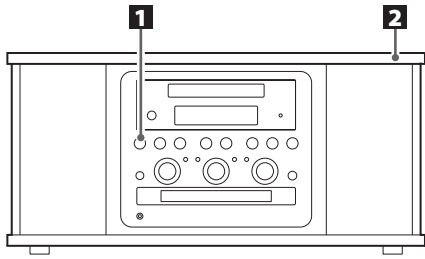
#### AM broadcast

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

#### FM broadcast

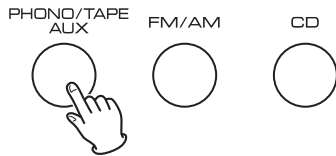
Extend and turn around the FM antenna so that you can receive the stations clearly.

# Listening to a Record 1

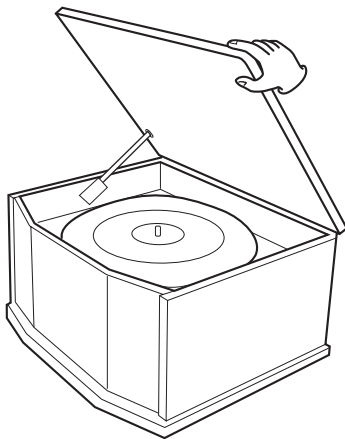


- Before use, completely loosen the transportation screw by turning them clockwise with a coin and remove the stylus guard.

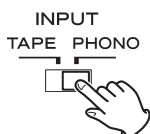
**1 Press the PHONO/TAPE/AUX button once or twice to select PHONO/TAPE.**



**2 Gently open the dust cover.**  
Be careful not to pinch your finger.



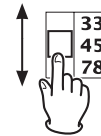
**3 Set the Input Selecting switch to RECORD.**



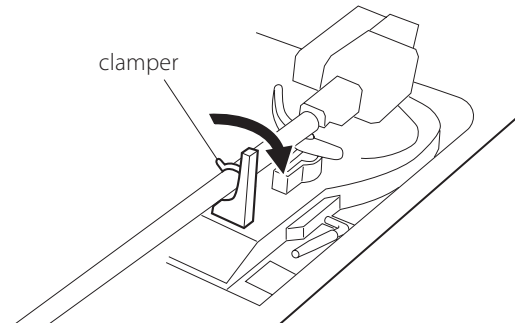
**4 Put the record on the turntable.**

When playing a 45 RPM large hole single record, use the included adaptor.

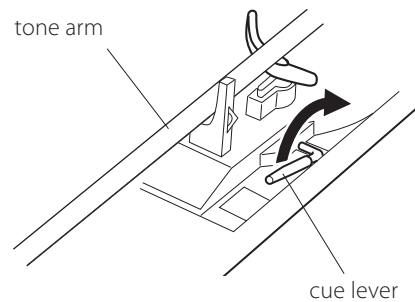
**5 Select the speed.**



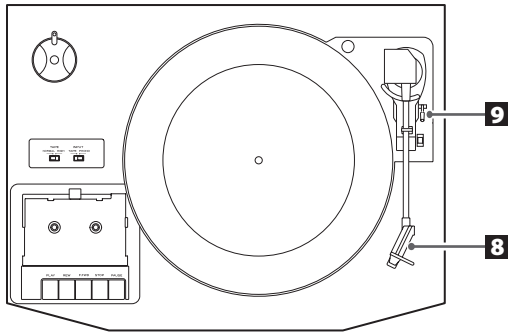
**6 Gently push the clamber to the right to release the tone arm.**



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

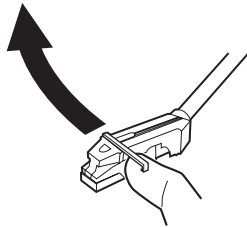


## Listening to a Record 2



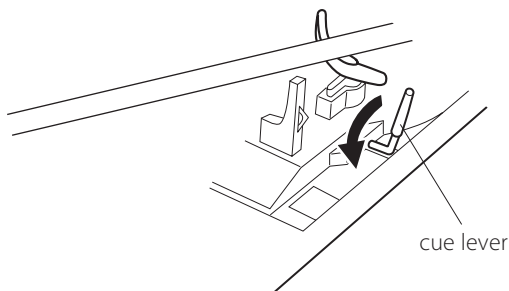
**8 Move the tone arm gently to the edge of the record (or the starting point of a track).**

The turntable will begin to turn.



**9 Gently lower the tone arm by slowly releasing the cue lever.**

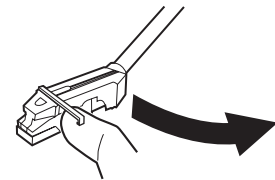
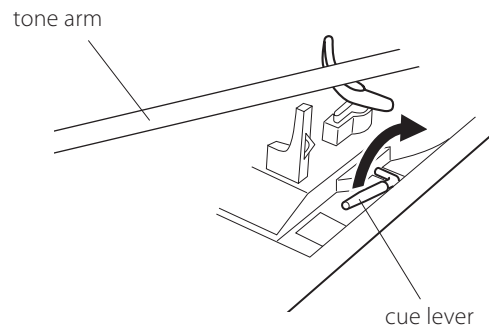
You can lower the tone arm manually if the cue lever has not been raised.



- Playing records with the dust cover down will prevent dust from settling on the turntable.
- Do not place anything on top of the turntable cover, especially while playing a record.

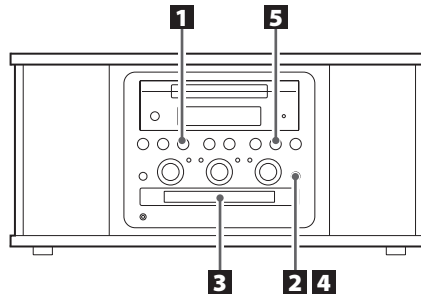
When the playback has been finished, the tone arm automatically returns to the tone arm holder and the rotation stops.

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

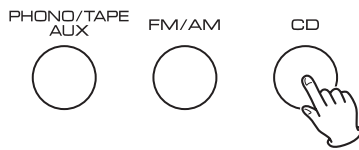




# Listening to a CD 1



## 1 Press the CD button.

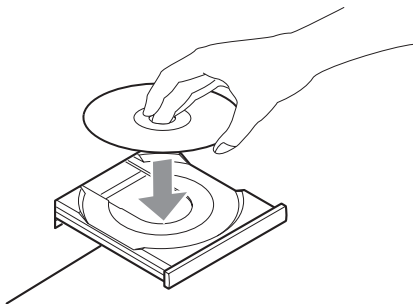


"--" blinks for a few seconds.  
When no disc is set, "nOdISC" appears on the display.

## 2 Press the OPEN/CLOSE button (▲).



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

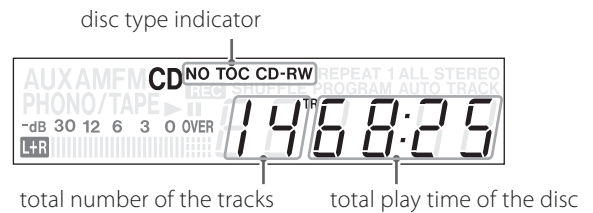


- Never place more than one disc on the tray.
- The disc must be placed in the center of the disc tray. If the disc is not correctly loaded, it may not be possible to open the tray again once it has closed, so you should ensure the disc is always centered on the tray.
- Do not force the tray by hand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

Unreadable disc

- When a non-music CD is inserted, its contents may be detected and playback may start. However, no sound is generated.

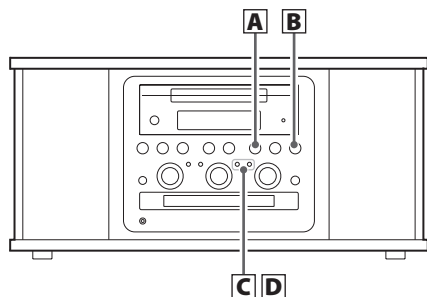
## 5 Press the PLAY button (▶) to start playback.



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 CD 2



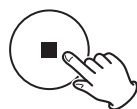
### A To suspend playback temporarily (pause mode)



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

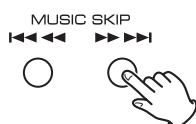
To resume playback, press the PLAY button (▶) or the PAUSE button (||).

### B To stop playback



Press the STOP button (■) to stop playback.

### C To skip to the next or a previous track

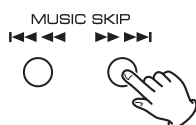


During playback, repeatedly press the SKIP button (◀◀ or ▶▶) until the desired track is found. The selected track will be played from the beginning.

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

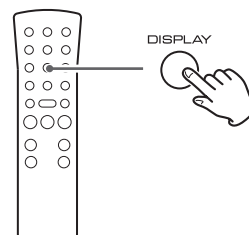
- When the ◀◀ button is pressed during playback, the track being played will be played from the beginning. To return to the beginning of the previous track, press the ◀◀ button twice.

### D Search for a part of a track



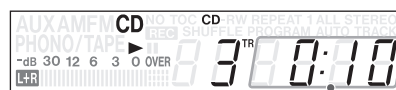
During playback, hold down the SKIP button (◀◀ or ▶▶) and release it when the part you want to listen to is found.

## Time Display

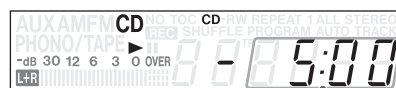


Each time the DISPLAY button is pressed, the display changes as follows:

### CD/CD-R/CD-RW playback



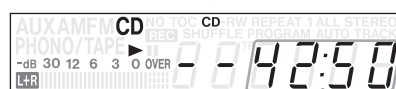
elapsed time of current track



time remaining for current track

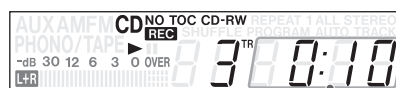


total elapsed time of the disc



time remaining for the disc

### During recording



elapsed recording time of the track



remaining recording time of the disc

### In record pause mode

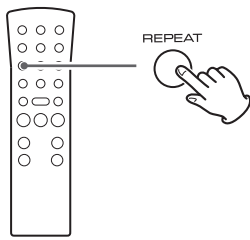


total number of the tracks      total play time of the disc



remaining recording time of the disc

## 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 selected will be played repeatedly.

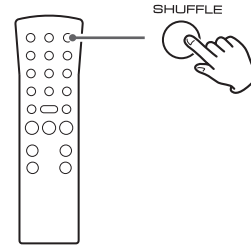
It is also possible to select a track to be repeated in the stop mode. Press the REPEAT button twice and then select the track number by pressing the MUSIC SKIP button. Press the PLAY button to start playback.

- 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 discs 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 replayed 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

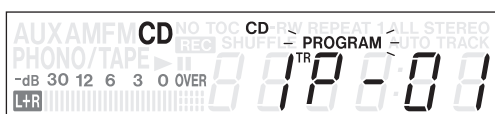
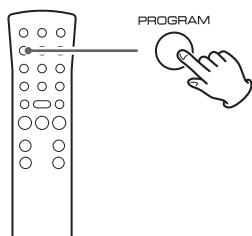
- Shuffle playback works with finalized discs only.

# Programmed Playback

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

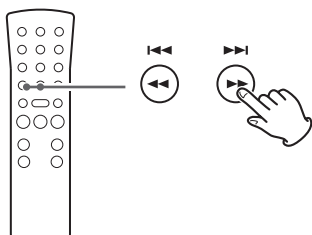
- Insert a disc and select "CD" before beginning programming.
- Shuffle playback does not work during programmed playback.
- Programmed playback works with finalized discs only.

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



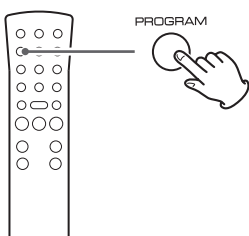
"PROGRAM" indicator blinks, and "P-01" appears on the display.

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



track number

## 3 Press the PROGRAM button.

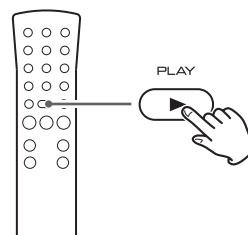


The track is programmed, and "P-02" is displayed.

Repeat step 2 and 3 to program more tracks.

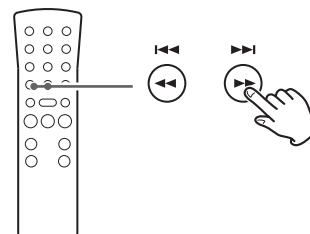
- You can program up to 32 tracks.
- To cancel the program mode, press the STOP button (■).

## 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.

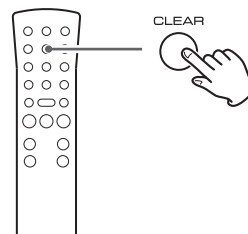


## To add a track to the end of the program

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.

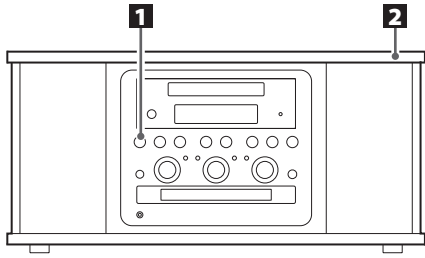


## To clear the program

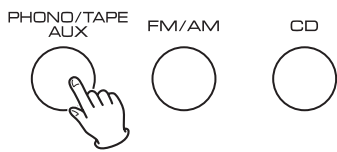
If one of the following buttons is pressed, the programmed contents will be cleared:

OPEN/CLOSE, POWER, FM/AM, PHONO/AUX, STOP in the stop mode

# Listening to a Cassette Tape 1



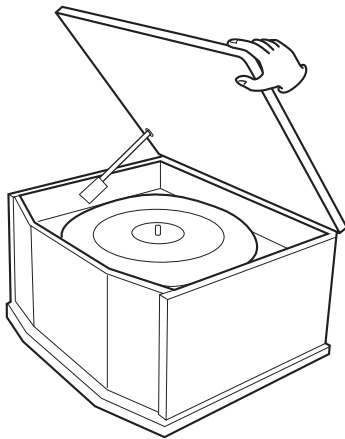
**1** Press the PHONO/TAPE/AUX button to select PHONO/TAPE.



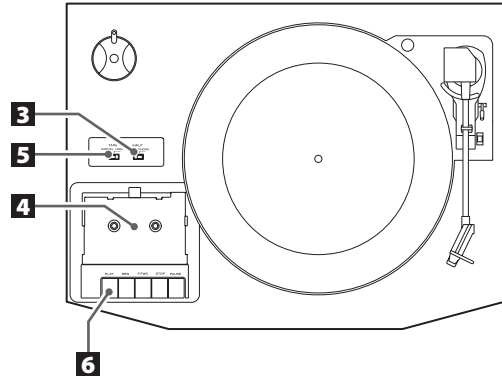
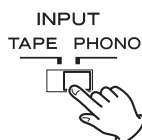
- Each time the PHONO/TAPE/AUX button is pressed, PHONO/TAPE (record or cassette tape) and AUX (external component) are selected alternatively.

**2** Slowly open the cover.

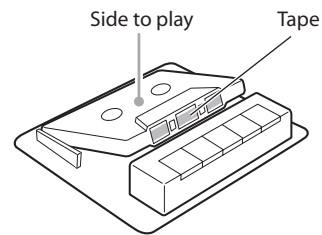
- When opening the cover, pay attention to prevent your hand from getting caught.



**3** Set the Input Selecting switch to "TAPE."



**4** Set a recorded cassette tape in the cassette holder.



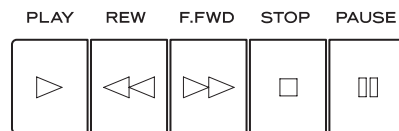
Set a cassette tape with the exposed tape in front and the side to play facing up.

**5** Set the Tape Selecting switch.

When playing a normal tape (type **I**), set the Tape Selecting switch by the turntable to "normal." When playing a chrome tape (type **II**) or metal tape (type **IV**), set the switch to "high."



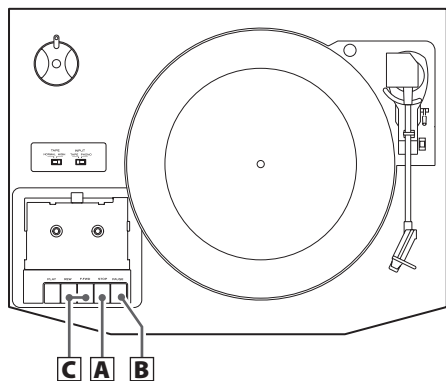
**6** Press the PLAY button (▶).



Playback starts.

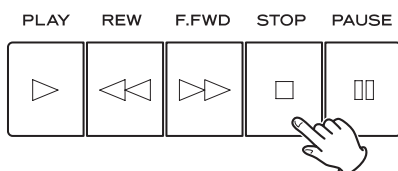
When the playback of one side finishes, the playback stops. To play the other side, turn over the cassette tape.

## Listening to a Cassette Tape 2



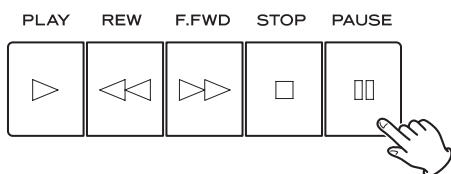
### A To stop playback

Press the Stop button during playback to stop.



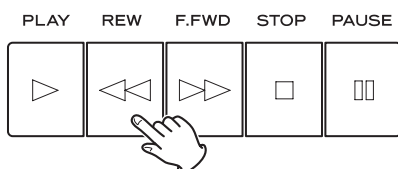
### B To suspend playback temporarily

Press the Pause button to suspend playback temporarily. Press the button again to play again.



### C Fast-forwarding/rewinding

Press the Fast-forward or Rewind button (▶▶ / ◀◀) to fast-forward or rewind a tape respectively.



To stop fast-forwarding or rewinding, press the Stop button.

Never press the Play button (▶) and Rewind button (◀◀) at the same time.

When a tape is fast-forwarded or rewound to the end, make sure to press the Stop button to stop the function.

## Before Recording

**Before you start recording, make sure that you understand the following points:**

- The unit requires Digital Audio CD-R or CD-RW media for recording. Computer CD-R or CD-RW discs do not work with this unit.
- Once you have recorded on a CD-R disc, the data cannot be erased from it.
- You can add tracks to an unfinalized recordable disc. Once finalized, a CD-R disc is "fixed" and behaves in the same way as a CD. Finalized CD-RW discs, however, can be unfinalized, erased and re-recorded.
- Due to the system restrictions of CD, a track cannot be less than four seconds in length, and there can be a maximum of 99 tracks on an audio CD.
- If the STOP button or PAUSE button is pressed within four seconds from the beginning of a track, the unit continues to record no signal and stops when the track's length reaches four seconds.
- When the recording is finished, "REC" and "- - - - -" blink for a few seconds, and the unit then goes into stop mode. Do not apply shock or vibration to the unit during recording.
- If the disc reaches the end during recording, the unit will start a fade-out over a few seconds. When the fade-out has finished, the unit finalizes the disc automatically and stops.
- If the disc reaches the end of the 99th track during recording, the unit finalizes the disc automatically and stops.
- The recording time of a track may differ slightly from the original one.

### Serial Copy Management System

This unit is in compliance with the Serial Copy Management System standard. This standard has been established to restrict digital-to-digital copying to only the first generation. The basic rules governing this system are as follows:

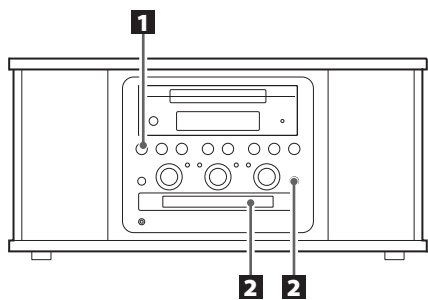
#### Rule 1

A digital recording is possible from a digital source such as a CD, DAT or MD onto a recordable CD-R, CD-RW, MD or DAT through a digital input connection. However, further digital to- digital recording is prohibited for the second and later generations.

#### Rule 2

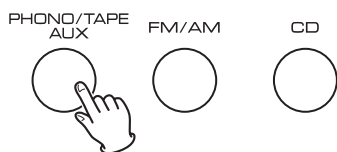
When an analog source such as an analog disc or FM broadcast is digitally recorded by using a CD-R, CD-RW, MD or DAT, this recorded source can be digitally recorded on another CD-R, CD-RW, MD or DAT. However, further digital copying is prohibited.

# Recording 1



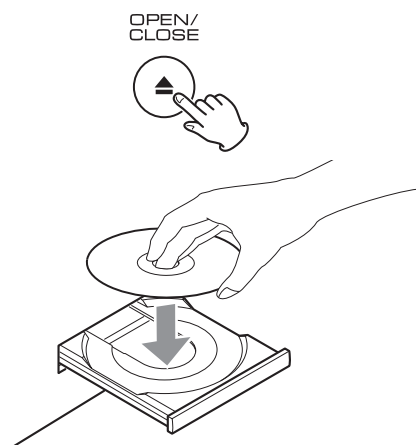
Audio from the PHONO/TAPE (cassette tapes)/AUX sources can be recorded on the CD recorder.

**1** Press the PHONO/TAPE/AUX button once or twice to select the source to be recorded.



To record a record or cassette tape, select PHONO/TAPE and set the Input Selecting switch by the turntable to the desired source. To record an external source connected to the AUX IN jacks, select AUX.

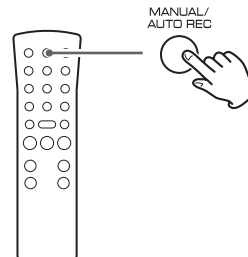
**2** Load a recordable CD-R or CD-RW disc into the unit.



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.

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.

**3** Select the mode of track number assignment using the MANUAL/AUTO REC button of the remote control unit.



When the MANUAL/AUTO REC button is pressed once, the current mode is displayed. Press the MANUAL/AUTO REC button repeatedly to select any other mode.

-- (MANUAL)

Track numbers are not given automatically. Use the TRACK INCREMENT button to divide tracks. MANUAL is recommended for recording an analog source such as a record.

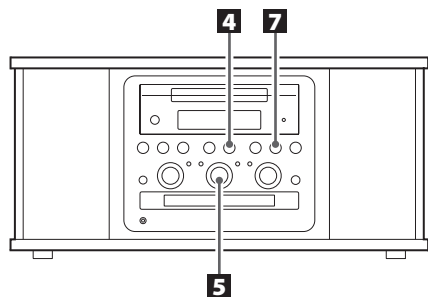
-20db, -30db or -40db (AUTO REC)

The unit will automatically insert a track division in the recorded material when the sound level has dropped below the threshold for more than 2 seconds, and sound has re-started.

"-20db" takes a louder signal to trigger the track increment. "-40db" means that a relatively quiet signal will trigger the track increment. "-40db" is suitable for recording a noiseless source such as a CD.

- AUTO REC may not work properly with analog sources that contain low-level noises.
- The AUTO TRACK indicator lights when -20dB, -30dB or -40dB is selected.
- The default setting is MANUAL (off). When the unit is turned on, the setting is automatically reset to MANUAL (off). Press the POWER button or FM/AM button to reset the setting to "MANUAL."
- The MANUAL/AUTO REC button doesn't work during recording or in the record pause mode. Switching is disabled immediately after a disc is placed. Switch after "NO TOC" is displayed.

## Recording 2



### 4 Press the RECORD button.



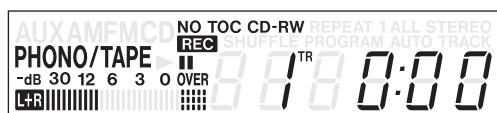
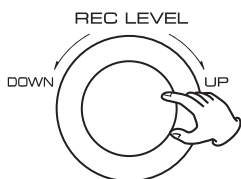
The red indicator on the RECORD button lights.

The unit enters record pause mode.

In record pause mode, "REC" indicator blinks and the **||** indicator lights on the display.

- No button will work while "busy" is displayed. Wait a few seconds until "busy" disappears from the display.
- If the red indicator on the RECORD button doesn't light, 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.

### 5 If necessary, adjust the recording level using the REC LEVEL knob.



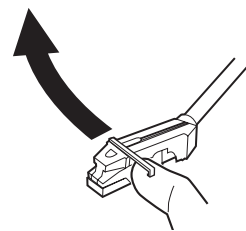
Play the source to be recorded and adjust the recording level so that the loudest sound does not exceed the "OVER" indicator on the peak level meter.

The level can be adjusted from -∞ (-∞) dB to 18 dB.

- The default setting is 0 dB. When the unit is turned on, or when the STOP button is pressed, the setting is automatically reset to 0 dB.

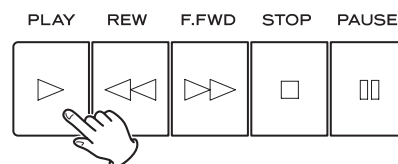
### 6 Prepare a recording source.

- Recording a record  
Move the tone arm to the end of a record or a position to record and slowly put it down.



When the turntable is stopped, the PLAY or the PAUSE button will not work and you cannot start recording.

- Recording a cassette tape  
Press the PLAY button (▶).



To prevent the beginning part from being cut out, cue the cassette tape, suspend playback temporarily, start recording as described in step 4, and cancel the pause of the tape. (To suspend playback temporarily when playback is stopped, press the PAUSE button (||) and then PLAY button.)

- Recording a sound played by a component connected to the AUX terminal  
Play the component connected to the AUX terminal.

To prevent the beginning part from being cut out, cue the component, suspend playback temporarily, start recording as described in step 5, and cancel the pause of the component.

If the component does not have the suspend function, start recording as described in step 5 then play the component.

### 7 Press the PLAY or the PAUSE button to start recording.



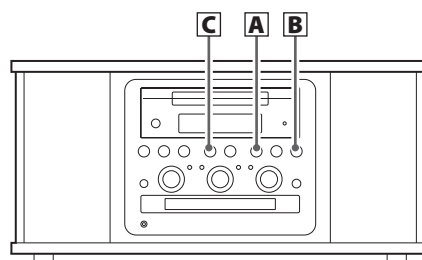


**8** If AUX is selected in step **1**, play the source to be recorded.

When playback of a record finishes and the turntable stops rotating or playback of a cassette tape finishes, recording automatically ends. Not to record excessive operation sound, press the STOP button (■) to stop recording as soon as the number on a record or cassette tape to be recorded finishes.

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. When recording is stopped, "REC" and "-----" blink for several seconds. Do not turn OFF the power or shake the unit during recording or when "REC" and "-----" are blinking. Such actions prevent proper recording.

**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

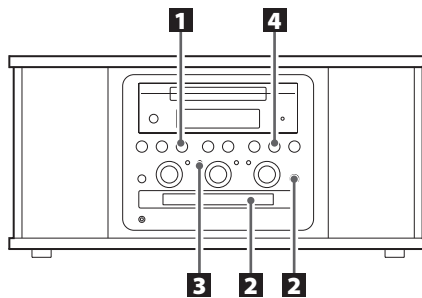
It is possible to divide the recording into tracks while recording. While recording is taking place, press the TRACK INCREMENT button. The current track number will be incremented by one.

TRACK  
INCREMENT



- The TRACK INCREMENT button works regardless of the MANUAL/AUTO REC setting.

# Finalize

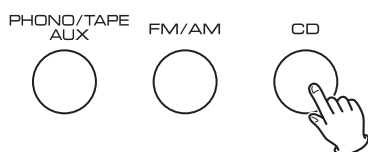


This section deals with the actions taken after recording. Once finalized, CD-R discs are truly final. No more tracks can be recorded on them. By contrast, CD-RW discs can be “unfinalized”, and if there is space, further material can be recorded on them.

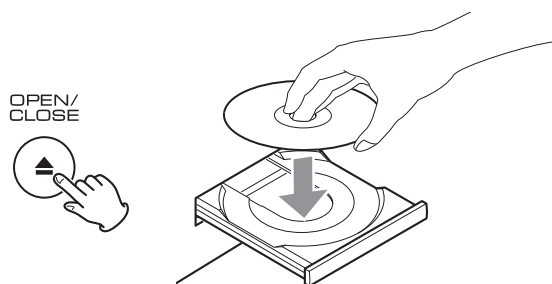
## Finalizing

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 CD button to select “CD”.



### 2 Load an unfinalized (recordable) disc.



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



“Fln--d” appears on the display.

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

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



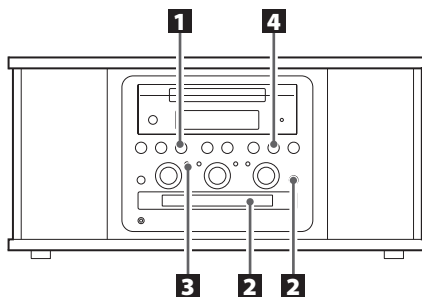
“NO TOC” and “REC” indicators blink, and the remaining time for the finalizing operation appears in the display. When the operation has been finished, the NO TOC indicator turns off and the display returns to the track/time display.

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 discs may not play on ordinary CD players.

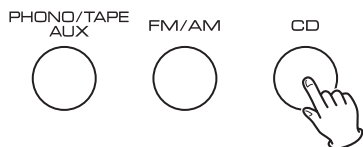
# Erase or Unfinalize a CD-RW



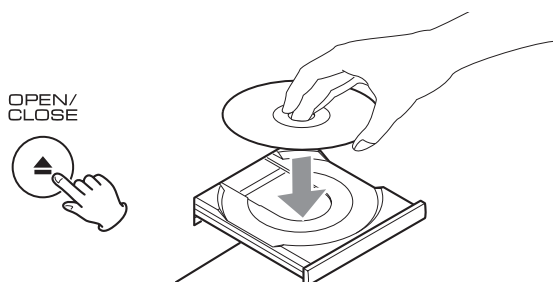
It is possible to erase the last recorded track. It is also possible to erase a whole disc.

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.



"Un Fln" (unfinalize) appears when a finalized disc is loaded.

"Er" and the last track number appear when the disc hasn't been finalized. Press it again. "Er ALL" will be displayed.

### "Un FINAL" (finalized discs only)

Select this to unfinalize a disc.

### "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 erase a number in a finalized CD-RW, unfinalize (Un FINAL) first and then erase the number by the same procedure (Er or Er All).
- To cancel the erasing or unfinalizing process, press the STOP button (■).

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



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.

If you experience any problems with the unit, please take a moment to look through this chart and see if you can solve the problem yourself before you call your dealer or a TEAC service center.

## General

### No power

- ➔ Check the connection to the AC power source. Check and make sure the AC source is not a switched outlet and if it is, the switch is turned on. Make sure there is power to the AC outlet by plugging another item such as a lamp or fan.

### No sound.

- ➔ Adjust the volume.

### The sound is noisy.

- ➔ The unit is too close to a TV set or similar appliances. Relocate the unit further away from them, or turn the other appliances off.

### Remote control doesn't work.

- ➔ Press the POWER switch of the main unit to turn it ON.
- ➔ If the batteries are dead, change the batteries.
- ➔ Use the remote control unit within the (5m) range and pointed at the front panel.
- ➔ Clear obstacles that are between the remote control unit and the main unit.
- ➔ If a strong light is near the unit, turn it off.

## CD Recorder

### Will not play.

- ➔ Load a disc with the playback side facing down.
- ➔ If the disc is dirty, clean the surface of the disc.
- ➔ A blank disc has been loaded. Load a prerecorded disc.
- ➔ Depending on the disc, etc. it may not be possible to play back CD-R/CD-RW discs. Try again with another disc.

### Sound skips.

- ➔ Place the unit on a stable surface to avoid vibration and shock.
- ➔ If the disc is dirty, clean the surface of the disc.
- ➔ Don't use scratched, damaged or warped discs.

### Recording is not possible.

- ➔ A playback-only disc or finalized disc has been loaded. Use a recordable disc.
- ➔ The disc does not have a recordable area. Use another disc.
- ➔ The recording level is too low. Adjust the recording level.
- ➔ This unit cannot record CD-R or CD-RW discs designed for computer systems. Use a disc bearing the "DIGITAL AUDIO" mark.

## Tuner

### Cannot listen to any station, or signal is too weak.

- ➔ Tune in the station properly.
- ➔ If a TV is near the unit, turn it off.
- ➔ Rotate the unit or antenna wire for the best reception position.

## Turntable

### Will not play.

- ➔ Loosen the transportation screw, and remove the stylus guard. (The stylus guard is a plastic cover that protects the stylus during transportation. Failing to remove this guard will not allow the needle to contact the groove of the record and no sound will be heard!)
- ➔ If the stylus is worn-out, change the stylus.
- ➔ Select the correct playback speed.
- ➔ Set the Input Selecting switch to "RECORD."

### Sound skips.

- ➔ Place the unit on a stable surface to avoid vibration and shock. Make sure the unit is level both front to back and side to side.
- ➔ Clean the surface of the record/disc.
- ➔ Don't use scratched, damaged or warped records/discs.

## Cassette tape

### The unit does not work even after operation buttons are pressed.

- ➔ Confirm that a cassette tape has been set. If not, set a cassette tape.
- ➔ Insert the cassette tape correctly.

### Sound quality is poor.

- ➔ Clean the head.
- ➔ If the head is magnetized, demagnetize it with a head eraser.
- ➔ Set the Tape Selecting switch according to the cassette tape used.

### If normal operation cannot be obtained, unplug the power cord from the outlet and plug it again.

## Beware of condensation

When the unit (or a record/disc) is moved from a cold to a warm place, or used after a sudden temperature change, there is the danger of condensation; vapor in the air could condense on the internal mechanism, making correct operation erratic or impossible. To prevent this, or if this occurs, leave the unit for one or two hours with the power turned on. The unit will stabilize at the temperature of its surroundings.

## Maintenance

Always keep the turntable clean.

If the surface of the unit gets dirty, wipe with a soft cloth or use a diluted mild liquid soap. Be sure to remove any excess liquid completely. Do not use thinner, benzine or alcohol as they may damage the surface of the unit. Allow the surface of the unit to dry completely before using.

## Messages

### **0<sup>TR</sup> 0:00**

A blank CD-R/CD-RW disc is set on the tray.

### **BUSY**

The unit is reading the disc. Wait a few seconds.

### **CLOSE**

Close the disc tray.

### **Er \*\***

Erase the last track of the CD-RW disc.

### **Er ALL**

Erase all the tracks of the CD-RW disc.

### **FIN -- d**

Finalize the disc.

### **-.\*\*db**

Increment level

### **NODISC**

No readable disc has been loaded.

### **OPEN**

Open the tray.

### **---:--**

The unit is reading the disc.

### **P.\*\***

Program number

### **UN FIN**

Unfinalize the CD-RW disc.

## Error Messages

### **D FULL, OPFULL**

There is no space on the disc, or no more tracks are available.

### **D DISC**

Discs designed for computer systems cannot be used for recording. Use the discs bearing "DIGITAL AUDIO" mark.

### **P-FULL**

32 tracks have been programmed. No more tracks can be programmed.

### **Err \*\***

An error occurred within the unit.

Press the POWER switch to turn the unit off, wait a minute, and turn it on again.

### **Err 03**

Something is wrong with the disc.

Turn the unit off and on, and change the disc.

(\*\* is variable.)

## Specifications

### Amplifier Section

Output power	3.5 W + 3.5 W
Frequency response	60 Hz to 20 kHz
Audio input sensitivity/Impedance	AUX: -6dBV(0.5V)/20kΩ
Maximum iutput level	AUX:+6dBV(2.0V)

### CD Recorder Section

Media type	CD-RW and CD-R for Digital audio (record and playback), CD (playback only)
Recording sampling frequency	44.1kHz
Frequency response	20Hz to 20kHz (playback:±2dB, recording:±3dB)
Signal to noise ratio	More than 90dB (playback) More than 80dB (recording)
Total harmonic distortion	Less than 0.05% (playback) Less than 0.07% (recording)

### Tuner Section

Frequency range(FM)	87.5 MHz to 108.0 MHz
Frequency range(AM)	530 kHz to 1720 kHz

### Record Player Section

Motor	DC servo motor
Drive system	Belt Drive
Speed	33-1/3 rpm, 45 rpm, 78 rpm
Wow and Flutter	less than 0.35% (WDT)
Cartridge type	Ceramic Stereo Cartridge
Stylus	STL-103
Output level	158 - 348mV

### Cassette tape section

Tracking system	4-track, 2-channel stereo
Tape speed	4.8 cm/sec
Wow&flutter	0.3%
Frequency characteristic	125 to 10,000 Hz
S/N ratio	45 dB

### Speaker System Section

Unit	70 mm (3")
Impedance	4 ohms

### GENERAL

Power requirements	120V, 60Hz
Power consumption	55 W
Dimensions (W x H x D)	480 x 230 x 380 mm (18 7/8" x 9 1/16" x 14 15/16")
Weight	11 kg (24 1/4 lb)

### Standard Accessories

Owner's manual	x 1
Warranty card	x 1
45 RPM adaptor	x 1
Remote control unit (RC-992)	x 1
Battery (AA, R6, SUM-3)	x 2
Quick Start Guide for recording	x 1
Stereo RCA pin cable	x 1

- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations may differ slightly from production models.





# TEAC

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This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number \_\_\_\_\_ Serial number \_\_\_\_\_

0308-MA-1348A