owner's manual

BEDIENUNGSANLEITUNG MANUEL DE L'UTILISATEUR

Quality. Uncompromised.

ROTEL®

RCD-850

COMPACT disc DIGITAL AUDIO

STEREO COMPACT DISC PLAYER

ENGLISH 3

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

Write your SERIAL NUMBER here.

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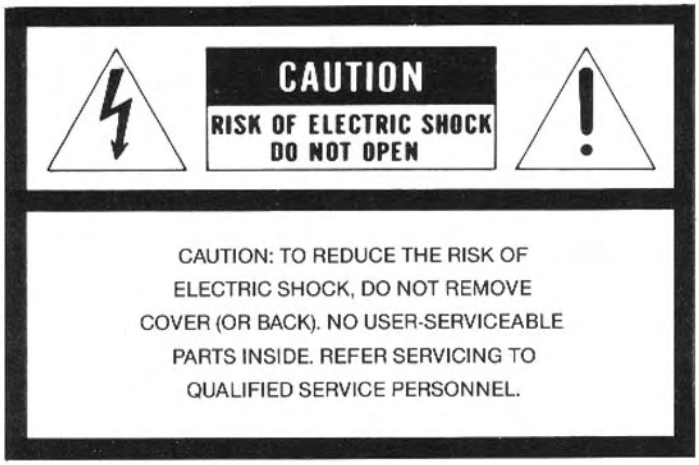
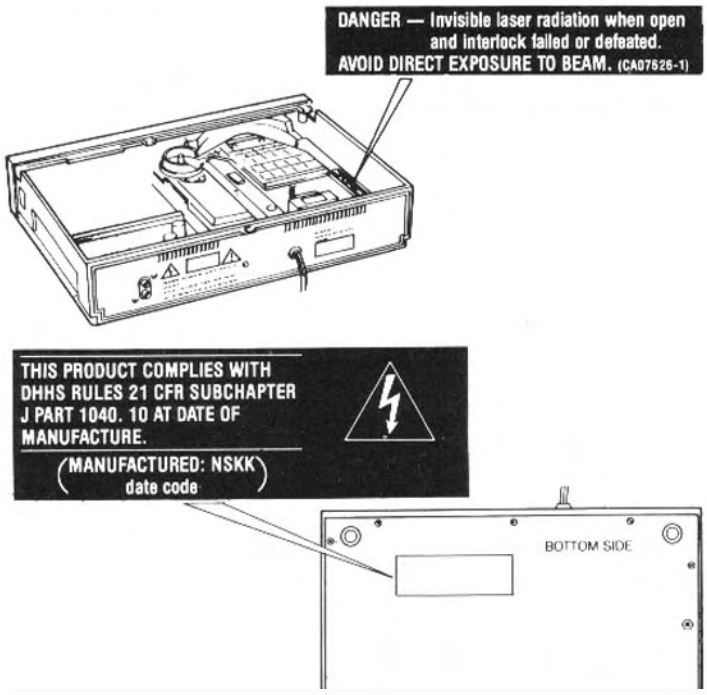
SAFETY INSTRUCTIONS



• **Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you 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 you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



1. Read Instructions — All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions — The safety and operating instructions should be retained for future reference.

3. Heed Warnings — All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions — All operating and other instructions should be followed.

5. Water and Moisture — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Carts and Stands — The appliance should be used only with a cart or stand that is recommended by the manufacturer.

7. Wall or Ceilling Mounting — The appliance should be mounted to a wall or ceilling only as recommeded by the manufacturer.

8. Ventilation — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

9. Heat — The appliance should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.

10. Power Sources — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

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

12. Cleaning — The appliance should be cleaned only as recommended by the manufacturer.

13. Nonuse Periods — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

14. Object and Liquid Entry — Care should be taken so that objects do not fall into and liquids not spilled into the inside of the appliance.

15. Damage Requiring Service — The appliance should be serviced by qualified service personnel when:

    A. The power-supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the cabinet damaged.

16. Servicing — The user should not attempt to service the appliance beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.

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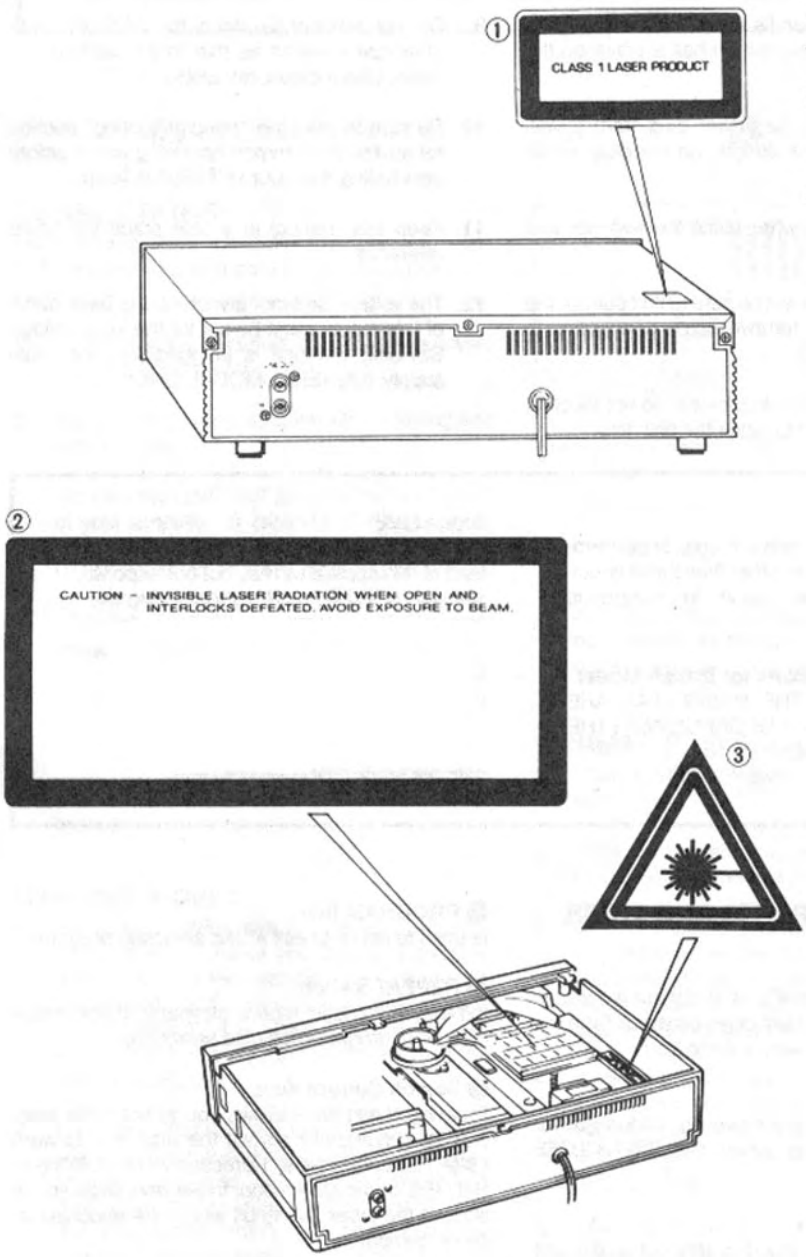
CAUTION



① THIS LABEL IS ATTACHED TO THE PLACE AS ILLUSTRATED TO INFROM THAT THE APPARATUS CONTAINS A LASER COMPONENT.

② THIS LABEL IS ATTACHED IN THE POSITION SHOWN IN THE ILLUSTRATION, SO THAT ANY FURTHER PROCEDURE WILL BRINGING THE USER INTO EXPOSURE WITH THE LASER BEAM.

③ THE WARNING LABEL INFORMING OF RADIATION IS PLACED INSIDE THE UNIT, AS SHOWN IN THE ILLUSTRATION, TO WARN AGAINST FURTHER MEASURES ON THE UNIT. THE EQUIPMENT CONTAINS A LASER COMPONENT RADIATING LASER RAYS EXCEEDING THE LIMIT OF LASER PRODUCTS OF CLASS 1.

CAUTION—USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

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ENGLISH

STEREO COMPACT DISC PLAYER RCD-850

Thank you for purchasing the ROTEL RCD-850 Compact Disc Player.

CAUTION: READ THIS BEFORE OPERATING YOUR RCD-850

1. The RCD-850 is a sophisticated Compact Disc Player. To ensure proper operation for the best possible sound reproduction, please read this manual carefully.
2. Choose the installation location of your RCD-850 carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibration and excessive dust, heat, cold or moisture. Keep away from such sources of hum as transformers or motors.
3. Do not open the cabinet as this might result in damage to the set or electrical shock. If a foreign object should get into the set, contact your dealer.
4. Be sure not to handle discs with dirty fingers. Never insert a disc which has a crack on the surface.
5. When removing the power plug from a wall outlet, always pull directly on the plug, never yank the cord.
6. Do not use force when using the switches and knobs.
7. When moving the set be sure to first pull out the power plug and remove cords connecting to other equipment.
8. To keep the laser-pickup clean, do not touch it, and do not forget to close the disc tray.
9. Do not attempt to clean the RCD-850 with chemical solvents as this might damage the finish. Use a clean, dry cloth.
10. Be sure to read the "troubleshooting" section for advice on common operating errors before concluding that your RCD-850 is faulty.
11. Keep this manual in a safe place for future reference.
12. The voltage selector switch on the back panel of this model must be set for the local voltage BEFORE the unit is plugged into the main supply. (GENERAL MODEL ONLY).

IMPORTANT!
Please record the serial number of your unit in the space below:
Model: **RCD-850**
Serial No.: 720-13 6422
The serial number is located on the rear of the unit.

WARNING
To prevent fire and shock hazard, do not expose this appliance to rain or moisture.

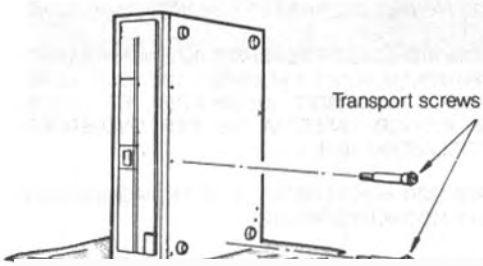
CAUTION
Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Special Instructions for British Model
THE WIRES IN THE MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE
Blue NEUTRAL
Brown LIVE
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

TRANSPORT SCREWS

To protect the internal laser pick-up mechanism from excessive shock during transit, it has been secured by special transport screws. These screws are attached on the bottom of the unit. Be sure to remove the transport screws before you turn your RCD-850 on.

1. Carefully place the unit on its left side. Do not subject it to any shocks.
2. Use a Philips head screwdriver to remove the transport screws.
3. Place the screws in a safe place, perhaps with this manual, as they may be needed in the future.
4. If you are going to transport your RCD-850 be sure to replace the transport screws. Be sure that there is no disc in the player before replacing the screws. Reverse the previous instructions to replace the screws.



FRONT PANEL PARTS AND THEIR FUNCTIONS

❶ POWER Switch
Supplies power to your RCD-850. If there is a disc in the disc tray, the player will begin playback from the first selection when power is turned on.

❷ Disc Tray
Holds a compact disc for playing. Slides out for loading and unloading when the OPEN/CLOSE switch is pressed.

❸ OPEN/CLOSE Key
When pressed, slides the disc tray out of the unit (OPEN operation) or retracts the disc tray into the unit (CLOSE operation).

❹ MULTI-FUNCTION DISPLAY Panel
Provides comprehensive information on disc selections, disc playback status, player operating status, and all programming procedures.

❺ PLAY Key
Initiates disc playback.

❻ PAUSE/STOP Key
Pressing this key during playback will temporarily interrupt operation of the unit (PAUSE). Pressing it twice during playback (or once while PAUSEd) will cause the laser pick-up to return to the beginning of the first selection and STOP operation.

❼ DISPLAY Key
When pressed, changes the display contents a step

❽ PROGRAM Key
Is used to set or check a disc selection program.

❾ REPEAT Switch
Initiates automatic repeat playback of the entire disc, or of programmed disc selections.

❿ Search Control Keys
Pressing these keys allows you to scan the laser pick-up sequentially across the disc in a forward (▶▶) or reverse (◀◀) direction when PLAYing or PAUSEd. In the stop mode, these keys allow you to access the index markings which are encoded on some compact discs.

⓫ Skip Control Keys
Pressing these keys allows you to move the laser pick-up sequentially across the disc to the beginning of each selection, in either a forward (▶▶|) or reverse (|◀◀) direction.

REAR PANEL PARTS AND THEIR FUNCTIONS

① LINE OUT
Use these jacks to connect your RCD-850 to an amplifier or receiver. They should be connected to the DAD, CD, or Aux input jacks. If these jacks are not available, use the TUNER or TAPE PLAY jacks. DO NOT use the PHONO input jacks. Make sure all AC power is off when making these connections.

② AC Power Cord
Connect this cord to a wall AC outlet, or to the power

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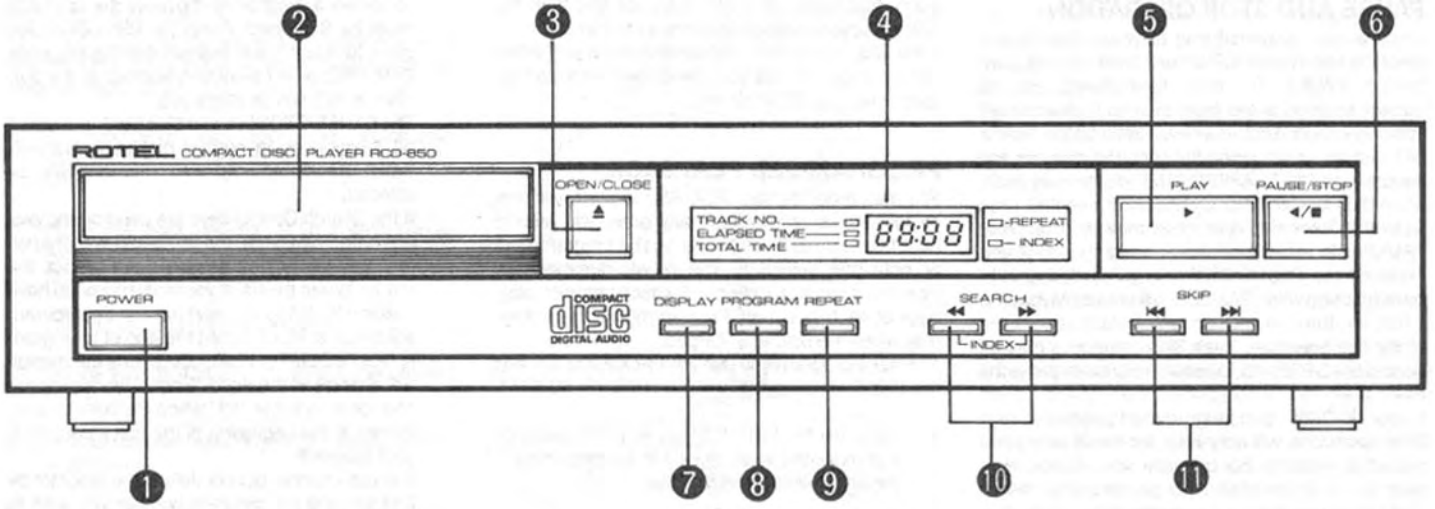
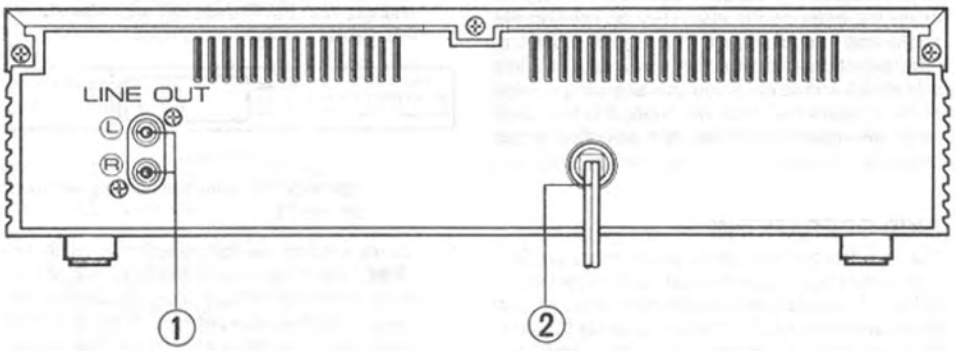


CONNECTIONS

There are only three connections to make from your RCD-850 the AC power cord and the two LINE OUT jacks.

1. Make sure the transport screws are removed from the bottom of the unit.
2. Turn off the power to all units before making any connections.
3. Connect the LINE OUT jacks to the input jacks of your amplifier or receiver. They should be connected to the DAD, CD, or AUX input jacks. DO NOT use the PHONO input jacks. Be sure that the player right channel (RED) is connected to the right channel of your amplifier, etc. Likewise, be sure that the player left channel (WHITE) is connected to the left channel of your amplifier, etc.
4. Connect the power cord to an AC outlet or to the convenience outlet of your amplifier, tuner, etc. Be sure that the convenience outlet is rated for more than 20 watts.



LOADING A DISC

1. Press the POWER switch. The MULTI-FUNCTION DISPLAY Panel will display a flashing dotted line for a few seconds. This will change to the word "DISC", informing you that there is no disc loaded in the player. All this point, your RCD-850 will only accept commands from the OPEN/CLOSE key.
2. Press the OPEN/CLOSE key. The disc tray will slide out from the unit, and the display will change to the word "OPEN". If the disc tray is obstructed from opening it will stop in that position after approximately 4 seconds. Press the OPEN/CLOSE key again and the disc tray will close. Remove the obstruction and press the OPEN/CLOSE key again.
3. Load a compact disc. Once the disc tray is fully open, remove a compact disc from its case and holding the disc by its edges, put it into the tray with the label facing upwards. At this point, your RCD-850 will accept commands from the OPEN/CLOSE or PLAY keys, the Skip Control keys, or the Index Search keys.
4. Close the disc tray. You can close the disc tray in three different ways: by pressing the OPEN/CLOSE key, by pressing the PLAY key, or by gently pressing the tray inward. If the disc tray is closed by pressing the PLAY key, the compact disc will immediately start playing once the tray is fully closed, otherwise the unit will

out. Then grasp the disc by its edges and lift it out. Remember to close the tray if you are not going to be using your player immediately.

NORMAL PLAYBACK

1. Press the POWER switch to turn your RCD-850 on.
2. Slide out the disc tray by pressing the OPEN/CLOSE key and load a compact disc.
3. Press the OPEN/CLOSE key to retract the disc tray. After a few seconds the total number of selections on the disc will be displayed on the display panel for about three seconds. The display will then change to indicate the first track.
4. If you now press the DISPLAY key twice the TOTAL TIME of the disc (playback time from the beginning of the first selection to the end of the last selection) will be displayed on the Multi-function Panel.
5. Press the PLAY key to start disc playback. The display will change from the TOTAL TIME display to show PLAY and then to the TRACK NO. display, and playback will begin. If the PLAY key is pressed without pressing the OPEN/CLOSE key, the disc tray will retract and the word "PLAY" will immediately be displayed on the display panel. The display will change to the TRACK NO. when playback begins.
6. The entire disc will be played, from beginning to end, unless other commands are entered during playback. When the end of the disc is reached, the word "End" will be displayed for about three seconds. The display will then change to show TRACK NO. 1 when the laser pick-up automatically moves to the beginning of the first selection and stops.
7. You can stop playback of a disc at any time.

Pressing the PAUSE/STOP key once will cause the disc to stop playing. The laser pick-up will remain at that point on the disc and the TRACK NO. display will flash dotted lines.
Pressing the PAUSE/STOP key twice will also cause the disc to stop playing. But the laser pick-up will return to the beginning of the first selection and the TRACK NO. display will indicate the first selection. To resume playback simply press the PLAY key.

DISPLAY PANEL INFORMATION

The MULTI-FUNCTION DISPLAY Panel responds to every operation you make. It proides the following information, selected by pressing the DISPLAY key:

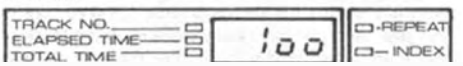
TRACK NO.: the number of the current selection on the disc.

ELAPSED TIME: the elapsed playback time of the current selection, in minutes and seconds.

TOTAL TIME: the combined playback time for all selections on the disc, or of a random access program, in minutes and seconds. This can only be dislayed when the disc is STOPped. When playback begins, TOTAL TIME will switch to TRACK NO.

During playback, and during a PAUSE, you can alternate between TRACK NO. and ELAPSED TIME by pressing the DISPLAY key. All programming operations are prompted and confirmed on the display (DISC, OPEN, PLAY, and End), and all disc search operations are confirmed with each operation. The panel also includes indicators to confirm REPEAT PLAY, INDEX SEARCH, and INDEX playback.

The following display appears when the STOP mode is engaged and the laser returns to the first track on the disc.



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PAUSE AND STOP OPERATION

Once a disc is loaded and playback has begun, pressing the PAUSE/STOP key once causes playback to PAUSE. The disc stops playing, but the current location of the laser pick-up is maintained. When PAUSEd, a dotted line will flash on the TRACK NO. display, or the colon between the minutes and seconds on the ELAPSED TIME display will flash, according to which display has been selected. Disc scan and Track skip operations may be done while PAUSEd. To resume playback press the PLAY key. Pressing the PAUSE/STOP key twice during playback (or once when PAUSEd) will cause playback to STOP, and the laser pick-up to move to the beginning of the first selection. Track Skip operations may be done while STOPped. To resume playback press the PLAY key.

If your RCD-850 is in programmed playback, Track Skip operations will only work for those selections placed in memory. For example, you will skip from selection 2 to selection 6 by pressing the "▶▶|" Skip Control key if those programs follow each other in the program. Disc Scan operations, however, follow the order on the disc. They do not skip the tracks that are not part of the program. Scanning from selection 2 to selection 6 will take you into selection 3 and so on. If you stop scanning outside of the program that track will finish, and then playback will resume with the next selection in the program.

SKIP OPERATIONS

The Skip Control keys allow you to move sequentially to the beginning of the next track on the disc, in either a forward or reverse direction. You can skip tracks when PAUSEd, STOPped, or while PLAYing.

To move forward one track press the "▶▶|" key and the laser pick-up will move to the beginning of the next track. If pressed and held down, it will continue moving to the next track, and then the next, until the end of the disc is reached.

To move backward one track press the "|◀◀" key and the laser pick-up will move to the beginning of the current selection (if playing that selection), or to the beginning of the previous selection. If pressed and held down, it will continue moving to the previous track until the beginning of the disc is reached. When skipping tracks, the display will change to the new TRACK NO. every time one of the keys are pressed, then return to the ELAPSED TIME display if that had been selected previously.

During programmed operation, the Skip Control keys will move the pick-up only to the programmed selections, and will pass over the tracks not selected.

SCAN OPERATIONS

The Search Control keys allow you to scan across the disc in either a forward or reverse direction. You cannot scan while the disc is STOPped. If either of the keys are pressed during playback (▶▶ for forward and ◀◀ for reverse), the laser pick-up begins scanning at a faster than normal speed for about 3 seconds, then at a higher speed for as long as the switch is held down. Music can be heard, but muted to about one-fourth normal volume, allowing you to monitor the selections while trying to locate a specific passage on the disc.

If either of the keys are pressed when the disc has been PAUSEd, the disc is scanned in the same manner, but no sound is heard. After scanning, the previous mode is maintained (PLAY or PAUSE). If the end or beginning of the disc is reached during scanning in either direction, the laser pickup does not return to the other end to continue scanning.

During programmed operation, the Search Control keys will move the pick-up across all the selections, not just the programmed ones. For example, if the program has track 9 following track 4 and you press the ▶▶ Search Control key while PLAYing track 4, that track will finish playback and then the next selection in the program will start to PLAY.

If the ◀◀ key is held until the end of the last selection on a disc is reached, the player will automatically enter the STOP mode.

PROGRAMMED PLAYBACK

You may program your RCD-850 to playback only certain tracks on a disc, in any order you wish to hear them. Up to 9 selections can be programmed, or only one selection. The player automatically inserts a 3 second audio blank space between playback of each selection. Programming can be done only when the disc is STOPped.

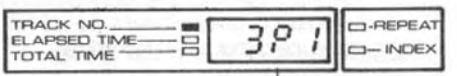
To enter a program you use the PROGRAM key and the Skip Control keys.

1. Press the PAUSE/STOP key to STOP playback and move the laser pick-up to the beginning of the first selection on the disc.

2. Press the PROGRAM key. The display will change, with the TRACK NO. indicator lit and PROGRAM number "P1" displayed.

Indicates that selection has not yet been set into P1

3. Locate the first desired selection by using the "▶▶|" key to advance to the beginning of that track, if it is not the first track. The display will show a flashing number (i.e. "3" for the third track) indicating the selected track, followed by "P1", indicating the first program.



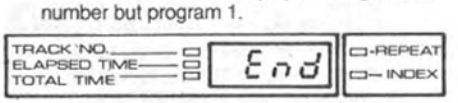
Flickers

4. Press the PROGRAM key to enter the selection as P1. The display will change to the prompt "P2" and the selected track number will disappear.

5. Use the Skip Control keys to move to the next desired selection. When the correct TRACK NO. is flashing on the display press the PROGRAM key again to enter the selection as P2.

6. Continue moving to the desired selections and entering them.

7. Once you have entered the last desired selection or have reached P9, press the PROGRAM key one more time. The display will change to the word "End", and after about 3 seconds your RCD-850 will be ready to play, with the laser pick-up positioned at the beginning of the first selected track and the display showing no track number but program 1.



After 3 seconds

Light up

Playback stand-by mode (STOP mode)

8. Press the PLAY key to begin playback. When programmed playback is finished, the unit will

To review a program in memory the RCD-850 must be STOPped. Press the PROGRAM key once for each track entered into the program. Both PROGRAM selection number and actual TRACK NO. will be displayed.

The PAUSE/STOP key and Skip Control keys will all function as in normal playback, but only those tracks entered into memory will be affected.

If the Search Control keys are used during programmed playback, the RCD-850 will change to normal playback as you scan across the tracks. When the track you have moved to have finished PLAYing, the next track in the program will begin to PLAY. When the end of a program is reached during PLAY operations the display will change to the word "End". The display will change to indicate "P1" when the laser pick-up moves to the beginning of the first selection in your program.

You can change, but not delete, the program by first locating the program number you wish to change with the PROGRAM key, then following the procedure for program setting.

REPEAT PLAYBACK

Press the REPEAT switch to continuously playback the entire disc or the programmes selections. The REPEAT PLAY indicator will light on the display. To stop repeat playback press the REPEAT switch once again, and the indicator will go out.

INDEX SEARCH

The Search Control keys are also used when your RCD-850 has been STOPped. When the disc is STOPped, these keys allow you to move the laser pick-up to an index mark in a selection.

Index marks are special encoded stops within a single track on a compact disc. These are not present on all discs, but are likely to occur on classical music discs to identify the beginning of an individual movement within a symphony, since a symphony would constitute a single track. Index search allows you to locate these index marks and begin playback from them.

Please note that the index marks cannot be used with programmed playback.

1. First enter the STOP mode.

2. Select the desired track number with the Skip Control keys.

3. Press the Search Control keys (▶▶ for forward and ◀◀ for reverse) to move to an index mark. The INDEX SEARCH indicator on the display panel will light, and the display will change to show both the TRACK NO. and the INDEX number within that track.

4. Continue pressing the Search Control keys to locate the desired index mark. Once the index mark is located press the PLAY key to begin playback from that point.

5. To stop playback press the PAUSE/STOP key, otherwise playback will continue past the next index mark until the end of the disc.

6. Index selection numbers will be displayed if the Index Search function is used with discs that do not have Index markers. When PLAY is initiated, however, it will start from the beginning of the Track already selected.

7. If an Index number is selected that is greater than the number of actual Index markers on the disc, PLAY will begin from the final Index

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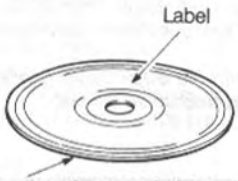
TIMER PLAYBACK

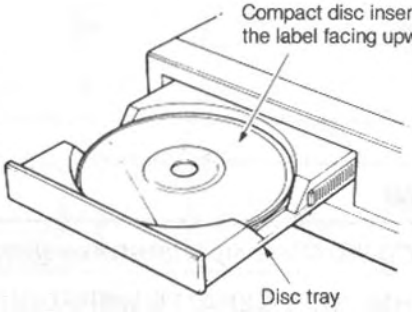
Your RCD-850 can be set to start playback at a desired time by using it in combination with an external audio timer.

1. Connect your RCD-850 and associated equipment to a commercially available audio timer.
2. Place the input selector of your amplifier or receiver to the position corresponding to your RCD-850 input jacks.
3. Load a disc into your RCD-850.
4. Set the volume and tone controls to the desired levels.
5. Program the desired ON and OFF times into the audio timer.
6. When the preset time arrives, power will be supplied to the RCD-850 and playback will automatically begin.

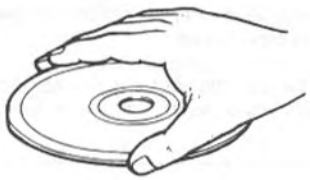
DISC CARE AND HANDLING



Lower surface has the recorded signal



Removing the disc



Your RCD-850 has been specifically designed for the reproduction of compact discs bearing the " " mark. No other discs should be loaded into the player.

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

Always place the disc in the tray with the label facing up.

Although compact discs are impervious to wear during play, damage to the surface of a disc through improper handling will result in playback irregularities. To preserve your compact discs, please handle them with care.

Although minute dust particles and fingerprints should have no effect on playback, you should keep the surface of the recorded side of your discs clean by wiping them with a clean, dry cloth. Wipe in a straight motion from the inside to the outside.

Never use record cleaner, record spray, antistatic sprays or liquids, or any chemical-based liquid to clean the surface of a disc, as these may irreparably damage the disc's plastic surface. Always return a disc to its protective plastic case when not using it.

Avoid exposing discs to direct sunlight, high temperature, or high humidity for extended periods of time. Long exposure to high temperatures may warp a disc.

Do not write on the label side of the disc with a ballpoint pen, as this may damage the disc.

SPECIFICATION

AUDIO SECTION

Frequency Response	5 to 20kHz +0.5dB, −1.0dB
Harmonic Distortion+Noise	0.004% (1kHz)
S/N Ratio	98dB
Dynamic Range	95dB
Wow & Flutter	Unmeasurable
Channel Separation	Better than 90dB (1kHz)
Output Voltage	2Vrms (full scale)
Output Impedance	1k-ohm

INTERNAL SYSTEMS

Optical Pick-up	3-beam laser
Error Correction System	CIRC
D/A Conversion	16-bit linear
Filter	Digital filter and 3rd order active filter

GENERAL

Power Requirements	120V AC, 60Hz 220-240V AC, 50Hz
Power Consumption	20W
Dimensions (W×H×D)	435×94×290mm 17-1/8″×3-3/4″×11-3/8″
Weight	3.5kg 9 lbs. 40 oz.
Accesories	Pin plug cord

Note that all specifications are subject to change without notice.

TROUBLE SHOOTING GUIDE

If your RCD-850 fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot, or if the fault is not listed in the SYMPTOM column, disconnect the player's power cord and contact your dealer or service center for help.

SYMPTOM	CAUSE	CURE
The player fails to turn on when the POWER switch is pressed.	Power cord is not plugged in or not completely inserted.	Firmly plug in the power cord.
The disc tray does not close completey.	A foreign object is entangled in the tray.	Carefully check the disc tray and remove the foreign object.
DISC appears on the display when trying to playback.	The disc has been inserted upside down	Load the disc correctly.
	The disc is damaged.	Check the disc carefully and replace if necessary.
	There is moisture on the laser pick-up	Wait 20 to 30 minutes after turning the unit on before trying to playback a disc.
Playback does not begin.	Disc is loaded upside down.	Reload the disc with the label side up.
	Disc is dirty.	Clean the disc.
Playback is delayed, or begins at the wrong place.	The disc may be scratched or damaged.	Check the disc carefully and replace if necessary.
No sound.	Improper output cable connections.	Connect cables properly. If the problem persists, the cables may be defective.
	Improper amplifier operation.	Set the amplifier controls to the correct input selection.
Sound "skips".	Player subject to vibrations or shock.	Relocate the player.
	Disc is dirty.	Clean the disc.
Sound "hums".	Improper cable connections.	Firmly connect the audio plugs. If problem persists the cables may be defective.
Noise in the tuner	Tuner too close to the player.	Move the tuner away from

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