ROTEL*hi fi*

RCD 950

Stereo Compact Disc Player

Owners Manual

Please write the serial number, purchase date and ROTEL*hi fi* AUTHORIZED DEALER for your records in the space provided.

Serial Number _____. Purchase date _____.

ROTEL*hi fi* AUTHORIZED DEALER _____.

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SAFETY INSTRUCTIONS

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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.

Explanation of Graphical Symbols

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 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 use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, 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.

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended 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 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, heat registers, stoves or other
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. **Grounding or Polarization** - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
12. **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 and plugs, convenience receptacles and the point where they exit from the appliance.
13. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
14. **Nonuse Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
15. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
16. **Damage Requiring Service** - The appliance should be serviced by qualified factory-authorized service personnel when:
    - The power-supply cord or the plug has been damaged; or
    - Objects have fallen, or liquid has been spilled into the appliance; or
    - The appliance has been exposed to rain; or
    - The appliance does not appear to operate normally or exhibits a marked change in performance; or
    - The appliance has been dropped, or the enclosure damaged.
17. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified factory-authorized service personnel.

DANGER: Invisible laser radiation when you open the top cover, audio direct exposure to laser beam

CLASS 1 Laser Product. Complies with DHHS 21 CFR 1040.10 and 1040.11.

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

APPLICABLE FOR U.S.A., CANADA OR WHERE APPROVED TO THE USAGE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQÚ AU FOND.

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A WORD FROM All OF US AT ROTEL

Thank you for purchasing our RCD 95O Digital Compact Disc Player. We have been designing and manufacturing high quality, high performance audio electronics for more than 30 years. Because of our desire to excel, we have won many design awards for sound quality and value for our audio components. We continue to do research and development in the UK to provide improvements in the sound quality and performance of our components. This CD player was designed to offer lifelike sound and is a natural extension of our love for music. Our passion for good sound and our love of music is well known. We believe that the music played through your RCD 950 will be a source of enjoyment to you for many years to come.

Rotel is committed to making quality products to enhance your life. We have designed this CD player to be durable, easy to use and to have *high fidelity to the original sound.* Please read the owners manual to ensure that the RCD 950 is properly installed and able to offer optimum performance. We appreciate being a part of your life.

FEATURES OF THE RCD 950 CD PLAYER

This CD player uses a multiplebit bitstream continuous calibration digital to analog converter. This is followed by a digital filter that runs at the equivalent of 96 x the sampling frequency. We have followed this circuit with a high performance buffer stage to improve the sound quality and stability of the output stage. RCD 950 will offer a lively, entertaining source of music for your sound system.

We have installed the loader and the 3 beam laser sled assembly in the center of the cabinet to optimize the mechanical integrity of the mechanism. We believe this helps to endow the mechanism with greater stability. We have center loading in some of our other models for the same reason.

The display is simple yet informative. It will provide more detailed information if you choose. This is done by pressing the appropriate buttons on the front panel or on the remote control. The Remote control duplicates all of the controls on the front panel and also has Direct Access keys for the tracks on the CD.

INSTALLATION OF THE RCD 950

Please place the unit on a **DRY**, level surface away from direct sunlight. Avoid placing objects on top of the RCD 950. Do not allow water to fall onto or into the RCD 950 as this could damage the circuitry. Avoid installing the CD player in a location where excessive heat, humidity, vibration or moisture will be a problem, such as directly on top of an amplifier where excess heat will build up.

We recommend installing the RCD 950 in furniture designed to house audio components. This will allow the CD player to be on its own shelf with nothing stacked on top of it. This will minimize potential interference with other components in your system, such as your tuner. Component furniture will also reduce or suppress vibration and all audio components will provide improved sound when free from vibration. Ask your **ROTEL*hi fi* AUTHORIZED DEALER** for advice about component furniture and proper installation of audio components.

ELECTRICAL REQUIREMENTS

This CD player is designed to work on AC voltage and the correct voltage is displayed on the Rear Panel. **Do not attempt to operate the RCD 950 on incorrect voltage as this will**

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damage the circuitry and will void your warranty. If you are in doubt about the correct voltage for this CD player we suggest that you please read the label on the back panel, the label on the packing carton or consult your **ROTEL*hi fi* AUTHORIZED DEALER** for confirmation of the correct voltage.

Connect the **Power Cord** to your wall socket for AC power. When you wish to disconnect the power cord from the wall always hold the plug firmly and then pull it out of the wall socket. *Do not unplug the power cord from the wall by pulling the cord only. This may damage the power cord and create a hazardous condition.* We recommend that the RCD 950 be connected to the mains' wall socket or an AC power line filter, not an extension cord.

If you wish to clean the cabinet on the RCD 950 we suggest that you clean it with a soft, DRY cloth. *Never use cleaning compounds or solvents to clean the cabinet as they may damage the finish or remove the labels.* They could also damage the circuitry if any residue falls inside the CD player.

There are ***NO*** user serviceable parts inside the RCD 950. **Please do not open the cabinet as this will expose you to the risk of potentially dangerous high voltage, the risk of shock and the LASER inside could also be HAZARDOUS to your health and eyesight.** This could also damage the circuits and possibly void your warranty.

Please refer to this drawing of the Front Panel when reading the section about Controls and the Display on the RCD 950.

CONTROLS ON THIS CD PLAYER

The **POWER** button will turn the CD player **ON** and **OFF**. Push it in and the RCD 950 will turn ON. The **POWER INDICATOR LIGHT** and the **DISPLAY** will illuminate at the same time. If you push the Power button again the power will go OFF and the Power Indicator Light and the Display will extinguish.

The **OPEN/CLOSE, PLAY, STOP, PAUSE AND TRACK** buttons are *underneath* the **Display**. The **PROGRAM, SCAN, RANDOM, REPEAT, A to B, TIME,** and **SEARCH** buttons are to left of the loading tray. The Display panel includes the **REMOTE SENSOR** for receiving the Infra Red signals from the **REMOTE CONTROL HANDSET**. *Please be certain not to block this as the Remote Control Handset will not function if this is covered or blocked.*

The **Open/Close** (**OPN/CLS**) button will open the drawer after you have pushed it. The Display will read **OPEN**. A second push of the button will Close the drawer. The Display will read **00** while the drawer is Closing. The Display will first show **00** and then **NO DISC** when there is no CD in the RCD 950.

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When a disc is loaded the Display will show the number of Tracks and the Total Time on the disc. More than 16 tracks on a disc will cause the display to read **OVER** in red. Pressing the **PLAY** button while the drawer is open will cause the drawer to Close and will start Play. The Display will read **01** when you do this. You may pre select a track number before pressing Play and the CD player will begin play with the selected track number. The track playing will "blink" in the display. You may also *gently* push the drawer inward and it will close. The **STOP** button will stop all functions and the Display will show the total track numbers and the total time on the disc.

Pressing the **PAUSE** button will make the CD player stay in the same place on the CD and the CD will still spin. *No sound will be heard until you press the Pause button or Play button to resume playing the disc.* The red Pause indicator (**II**) will illuminate in the display next to the Play arrow.

The **TRACK** buttons (**I<<, >>I**) will advance to the next Track (**>>I**) or will go back to the previous Track (**I<<**) on the disc. If you are in the middle of a song and you press the **I<<** Track button once, the player will begin the same song again. If you press it twice, *quickly*, it will play the previous song on the disc. If you are in Pause and you press the **I<<** Track button once it will proceed to the beginning of the same track and wait for you to press the Pause or Play button. Pressing the **>>I** Track button will cause the CD player to skip to the next track on the disc.

The **PROGRAM** button will be used when you Program songs on the disc for play in a specific order or to make a recording. To begin a Program, load a disc into the drawer and press the Close button. The RCD 950 will read the table of contents on the disc. Press the Program button on the CD player or the Remote Control. The display will show the word MEMORY and P:01.
Next, select the Track Number you wish to Program. It will be displayed in the Display Panel. Press the Program button again and the song will be entered into the Program memory. Repeat this for the tracks you wish to program. The RCD 950 will remember up to 21 tracks in a Program. The track numbers will illuminate in the display as you enter them into your PROGRAM. You may check the song sequence entered into the program by pressing the PROG button. Pressing the Open (**OPN/CLS**) button will completely erase a Program from the memory.

SCAN will play the first 10 seconds of each song on a disc. The word INTRO will show in the Display. The **RANDOM** function will play songs in a completely random way till the disc is finished. The word RANDOM will show in the display.

The **REPEAT** (REPT) button will allow you to play a song, the whole disc or programmed songs repeatedly until you cancel this function by pressing REPEAT again or STOP. The words REPEAT 1 or REPEAT ALL are shown in the Display Panel, according to which function you select. This may be combined with RANDOM play as well.

The **A-B** button will allow you to create a "time loop" in a song. This is useful for learning the words or chords in a song. This feature could also be used for "sampling" segments of songs to make a special effects recording. To use this feature select the place in a song that you wish to repeat and press PLAY. Press the A-B button at the time you wish to start the loop. Allow the disc to play until you reach the end point of the section you wish to loop and then press the A-B button again. This will create a *time loop* and the RCD 950 will repeat play this until you press STOP or the A-B button again. The display will show A-B when you are using this feature.

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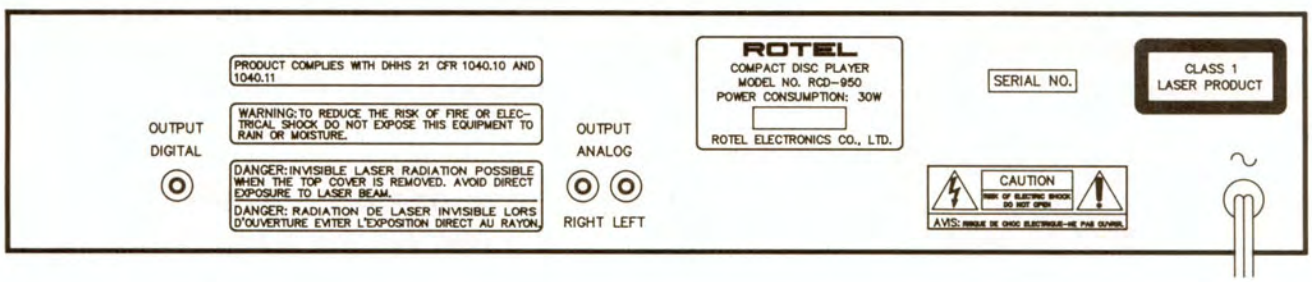
The **TIME** button will change the Display readout *from* Track Number and Elapsed Time *to* Track Number and Time Remaining in a song, *and then* Total Time Remaining for the disc or Program. The word REMAIN will show in the display when you use this feature.

The **SEARCH** buttons (**<<**, **>>**) will cause the CD player to go forward or backwards in time quickly when playing a song.

The **REMOTE CONTROL** handset duplicates all the functions on the Front Panel of the RCD 950. It also includes Direct Access keys for the Track numbers. To Play a track higher than 10 you should press the +10 button to add the track numbers together. *For example, to play track 28 you would push the +10 button* ***twice*** *and then push 8.* To insure proper operation of the remote control it should be aimed directly at the front panel display of the CD player.

The **STOP** and Direct Access Track keys are **black**. The Function keys, the OPEN/CLOSE (**OPN/CLS**) key and the **PAUSE** key are **gray**. The **PLAY** button is **orange**. The keys are color coded to be visually easy to identify and use.



Please refer to this drawing of the Rear panel of the RCD 950 when connecting to your stereo system.

CONNECTING THE RCD 950 TO YOUR STEREO

The rear panel of the RCD 950 has the **OUTPUT** connections for the CD player. These are RCA jacks and are designed to be connected to the CD or AUX. input of your stereo integrated amp, receiver or preamplifier. Please observe the correct Left and Right Channel connections for optimum enjoyment of your music. The **DIGITAL OUTPUT** is an RCA connector and is designed to use a 75 ohm *shielded cable* to connect RCD 950 to an external digital to analog converter, such as the Rotel RDP 980. *High performance RCA patch cables will improve the sound of your stereo and we recommend them.* Ask your **ROTEL*hi fi* AUTHORIZED DEALER** for advice about cables.

A FINAL WORD FROM ROTEL ABOUT THIS CD PLAYER

We have attempted to provide a very good sounding machine with simple features. We have tried to do this at a reasonable price while retaining the build quality for which we are rightly famous.

We believe that the RCD 950 will be a source of pleasure to you for years to come. We have designed this CD player for high performance and musicality using test equipment and the human ear. We believe that both methods are useful in the design of audio electronics. *This is time consuming but we feel that the music benefits from this care and attention to detail.* We realize that there are many choices available in the market today and we thank you again for choosing our RCD 950 Digital Compact Disc Player to play your CDs. *Enjoy the music!*

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SPECIFICATIONS : RCD 950 COMPACT DISC PLAYER

Frequency response	5-20,000 Hz, ± 0.5 dB
Total Harmonic Distortion + Noise	≤ 0.0045% @ 1 kHz
Channel Separation	≥ 100 dB @ 1 kHz
Signal to noise ratio	≥ 100 dB
Channel balance	± 0.5 dB
Dynamic range	99 dB
Analog output	2 volts rms.
Analog output impedance	220 ohms
Digital output level	0.5 volt (peak to peak)
Digital output impedance	75 ohms
Speed accuracy, wow and flutter	Quartz crystal accuracy
Digital to analog converter	Multiplebit bitstream continuous calibration
Digital filter	96 x Oversampling equivalent
Power requirements	120 volts AC/60 Hz, 220-240 volts AC/50 Hz
Power consumption	30 watts
Weight	4.8 kg (10.5 Lb.)
Dimensions	440 mm (W) x 92 mm (H) x 298 mm (D) 17-3/8" (W) x 3-5/8" (H) x 11-3/4" (D)

All specifications are accurate at the time of printing. Rotel reserves the right to make improvements without notice.

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