

ROTEL *hi-fi*

STEREO COMPACT DISC CHANGER

RCC-940AX

owners manual

EXCLUSIVE NOTE FOR U.K.

If you are in the U.K. please note that the following instructions are for the U.K. version of the product. The U.K. version of the product is designed to operate on a 230V AC supply. The U.K. version of the product is not suitable for use in other countries.

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

Write your **SERIAL NUMBER** here.
The number is located on the
rear panel.

SAFETY INSTRUCTIONS

- 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, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.

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 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 appliances (including amplifiers) 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. 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 at 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 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.

PORTABLE CART WARNING



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



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.

• 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 (servicing) instructions in the literature accompanying the appliance.



EXCLUSIVE NOTE FOR U.K.

If your unit comes with a 2-core mains lead without a plug, neither core is to be connected to the earth terminal of a three pin plug, make certain that they are connected, according to the following instruction, to the proper terminals. Check that the terminals are screwed down firmly and no loose strands of wire are present.

IMPORTANT: The wires in this 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 markings 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 BLUE or BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

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

ATTENTION: POUR ÉVITER LES CHOCs ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

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

ATTENTION — L'EMPLOI D'ORGANES DE COMMANDE OU DE RÉGLAGE OU L'EXÉCUTION DE PROCEDURES AUTRES QUE CEUX SPÉCIFIÉS DANS LE MODE D'EMPLOI PEUT PROVOQUER UNE EXPOSITION DANGEREUSE AU RAYONNEMENT.

INTRODUCTION

A WORD FROM ROTEL

We at Rotel take this opportunity to thank you for choosing our product. The RCC-940AX compact disc changer, is a solid unit, offering you some of the most attractive features and functions of today's compact disc technology. This, coupled with the achievement of high levels in sound reproduction, makes us confident that you will enjoy your Rotel equipment, now and for many years to come.

Please read this instruction manual carefully before you start using your compact disc changer and keep it in a safe place for future reference. Thank you.

INTRODUCING THE RCC-940AX

The RCC-940AX is a comprehensive player, featuring many user-friendly and adjustable controls and functions, as well as giving the user five times the amount of continuous quality playback time.

The audio section features a true 1-bit bitstream dual digital to analog converter with a steady power supply. An optical digital output is included for connection to an external digital audio processor (D/A converter).

The extruded aluminum front panel, houses an aluminum door for the 5-disc carousel deck, and only the essential set of operation buttons, as well as the large fluorescent display. A special feature ensures that a disc can be played even while the carousel is open, thus allowing the user to change two of the five discs, without having to stop disc playback.

The multi-function display gives comprehensive information on the number of tracks on the current disc, disc playing time, the state of play and activated functions.

The RCC-940AX comes with the RR-908 remote control unit, which duplicates all functions found on the front panel, as well as including the following features: 10-key pad for direct track access; program function, allowing up to 32 selections to be stored; scan function; random function; repeat function; edit function, where only complete tracks will be recorded onto a tape; and time function, which gives readouts of the elapsed and remaining track playing times, as well as elapsed and remaining disc playing times.

UNPACKING AND INSTALLING

Pull out the flap at the back of this manual, to visualize the illustrations referred to in the text.

CONTENTS OF THE PACKAGING BOX

- RCC-940AX compact disc changer
- RR-908 remote control unit and batteries
- Interconnecting cable
- Instruction manual

If any of these items is missing, please contact your dealer immediately.

UNPACKING

Carefully unpack your compact disc changer and place it gently at its intended location. We advise you to keep the packaging material for future use, in case you move or need to return the unit for servicing.

LOCATION

- Place the changer on a flat, firm surface where it will be free from direct sunlight, excessive humidity, vibrations, dust, heat or cold.
- For optimum sound performance, place the changer away from sources of hum, such as transformers or motors.
- Do not place audio or video cassettes on top of the changer because their content may be erased due to the magnetic fields created by the transformer in the changer.
- Never place the changer on top of an amplifier. This could block the amplifier's ventilation outlet and damage the equipment by overheating.

INTERFERENCE

Compact disc players can cause interference to certain equipment such as tuners or receivers. One or a combination of the following measures may be required to eliminate such interference:

- Increase the distance between the changer and the tuner (or other apparatus).
- In the case of a tuner or receiver, reorient or relocate the antenna, or use an outdoor antenna.
- Connect the changer into a mains outlet on a circuit different to that which the other apparatus is connected.
- Contact your dealer for further advice.

ELECTRICAL REQUIREMENTS

Your equipment has been designed to be powered by your local mains supply. Before connecting it to the mains outlet, check the rating of your unit at the identification plate located on the rear panel of the unit. Never plug the unit into an outlet of voltage different to that specified. The wrong voltage can cause a serious fire hazard. Consult your dealer if in doubt.

THE CABINET

There are no user-serviceable parts inside the unit. Do not attempt to open the cabinet, as this could damage your unit and void the warranty. If the changer is dropped, damaged or does not seem to function properly, disconnect the power cord immediately and consult your dealer.

CLEANING YOUR UNIT

If your unit becomes dirty, wipe it gently with a soft, clean, dry cloth. Never use solvents of any kind. To ensure the internal mechanism is kept free from dust and dirt, make sure the carousel is closed whenever possible.

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LOCATION

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THE CABINET

There are no user-serviceable parts inside the unit. Do not attempt to open the cabinet, as this could damage your unit and void the warranty. If the changer is dropped, damaged or does not seem to function properly, disconnect the power cord immediately and consult your dealer.

CLEANING YOUR UNIT

If your unit becomes dirty, wipe it gently with a soft, clean, dry cloth. Never use solvents of any kind. To ensure the internal mechanism is kept free from dust and dirt, make sure the carousel is closed whenever possible.

THE DISCS

To maintain the discs in good condition:

- Do not write on or attach any stickers to the disc.
- To avoid warping of the disc, do not expose it to excessive direct sunlight, heat or humidity.
- Keep the disc clean and free from dust and dirt at all times. To clean, only use a soft, damp, lint-free cloth, wiping the disc in straight lines from the center to the edges.
- Do not use any cleaning agents, detergents or abrasives to clean the discs.
- Remove a disc from its storage case, by pressing down on the center of the case and lifting the disc out, holding it carefully by the edges (to prevent finger marks and scratches).
- After use, store the disc in its case again.

REMOTE CONTROL UNIT

See *Illustration 3 - Battery Positioning*:

Remove the battery cover - on the back of the remote control unit -, and insert two batteries in the correct position, as indicated. Push the cover back in, to secure the batteries properly.

To ensure the proper functioning and safe-keeping of the remote control unit, do as follows:

- Keep the remote control unit away from extremely hot or humid places.

MAKING THE CONNECTIONS

See *Illustration 1 - Rear Panel*, to visualize where the connections are to be made.

NOTE: Please be sure the power is turned off and that the power cords from the equipment has been unplugged from the mains outlet before making any connections.

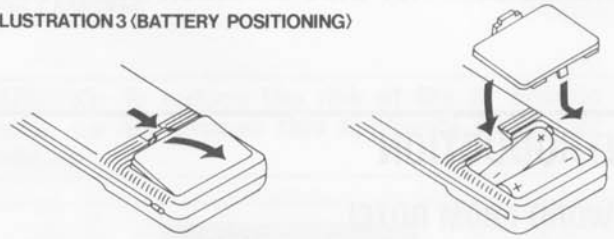
1. CONNECTING TO AN INTEGRATED AMPLIFIER OR PREAMPLIFIER

Connect the ANALOG OUTPUT jacks (1) on the back of the changer, to the CD input jacks of your amplifier, using the interconnect cord supplied. Ensure the right (RED) and the left (WHITE) channels are correctly connected to the corresponding inputs on your amplifier. You may also connect the changer to the AUX inputs on your amplifier if the CD input is already being used by another unit, or if there is no CD input available. Do not connect it to the amplifier's PHONO input.

2. CONNECTING THE OPTICAL OUTPUT

If you have a separate D/A converter unit or an amplifier with

ILLUSTRATION 3 (BATTERY POSITIONING)



- Avoid dropping and spilling liquids on or into the remote control unit.
- Avoid exposing the remote sensor to direct sunlight or lighting apparatus.
- Remove the batteries when the remote control unit will not be used for a long time, to avoid leakage of the batteries, which could damage the unit.

The remote control unit should be pointed toward the changer, so that the functions can be activated. The average lifetime of the batteries is approximately one year, but may vary with the intensity of usage. When the changer no longer responds to remote commands, the batteries should be replaced.

TROUBLESHOOTING GUIDE

Ensure you read the Troubleshooting Guide on common operating errors before concluding that the changer needs servicing.

a built-in D/A converter, you can connect the changer's OPTICAL OUTPUT socket (2), to the optical input socket. Use a proper optical "TOSLINK" interconnect cable, available from your dealer.

3. CONNECTING THE POWER CORD

After completing the installation and all the connections, make sure that the POWER switch on the front panel of your unit is set to OFF (button out). Connect the power cord (3) to the mains outlet. Always handle the power cord with care and never pull the plug out by tugging the cord. Instead, hold the cord by the plug and gently pull.

NOTE: Verify that all connections are properly and securely made and that the changer and amplifier have been plugged in. Hum and noise may be caused either by improper connection between turntable, tuner, amplifier and/or speakers, or as a result of different grounding or location of the components. Check that the audio interconnect cables are completely inserted into their sockets on both changer and amplifier.

ILLUSTRATION 1 (REAR PANEL)

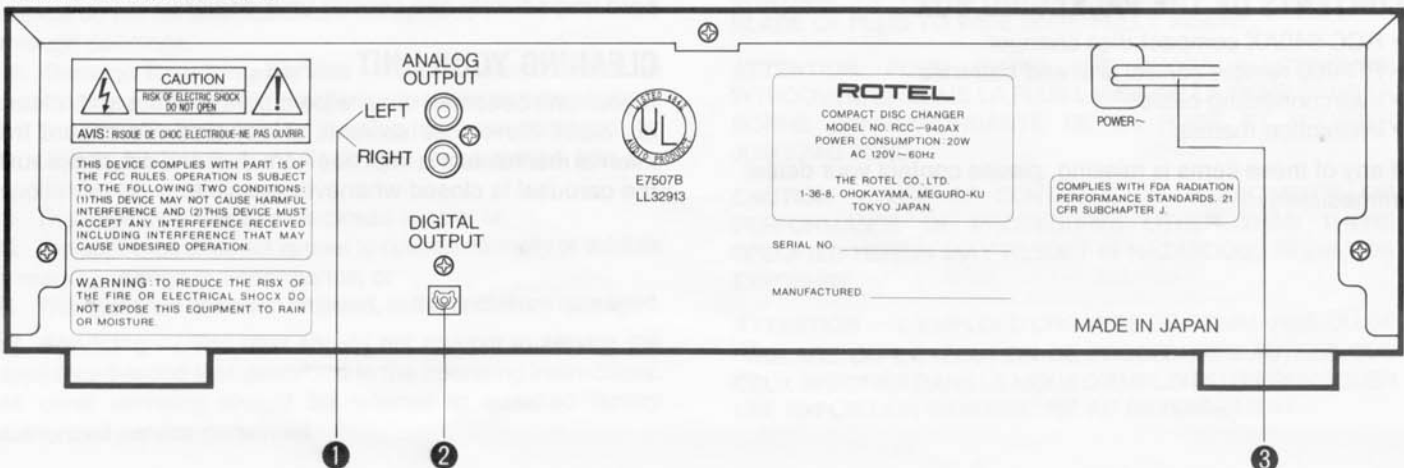
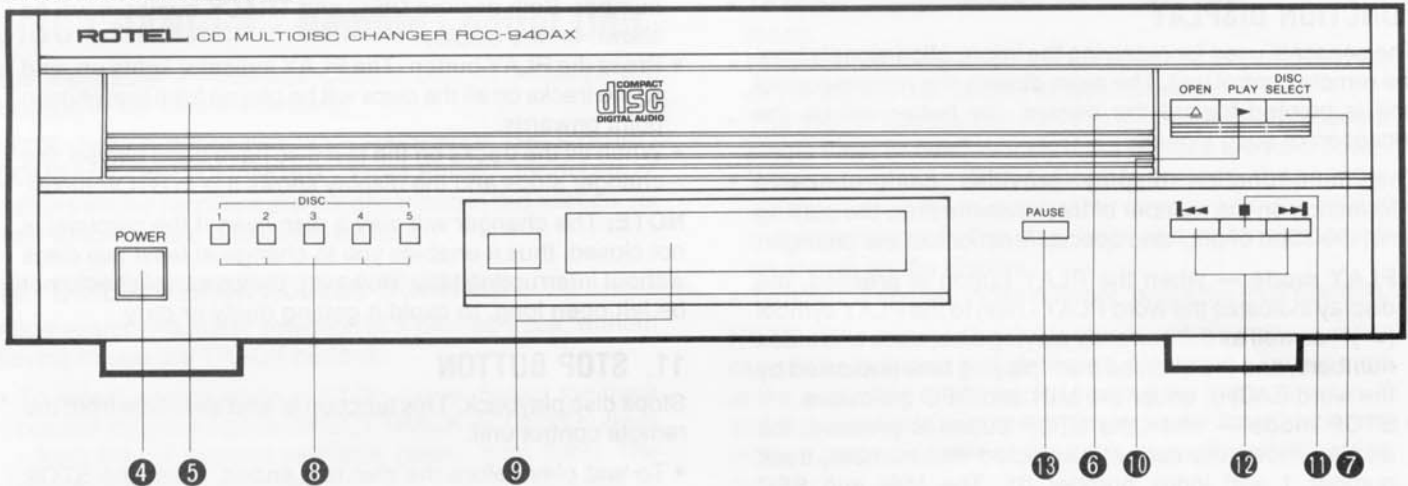


ILLUSTRATION 2 (FRONT PANEL)



OPERATION OF THE STEREO COMPACT DISC CHANGER - Front Panel

See Illustration 2 - Front Panel, to see the location of the different function buttons and display.

4. POWER BUTTON

Switches the changer on and off. The changer is ON when the POWER button is in. The changer is OFF when the POWER button is out.

5. THE CAROUSEL

There are 5 trays on the carousel, in each of which one compact disc may be placed.

- Do not touch or force the carousel, while it is rotating.
- Do not put anything but a compact disc into the tray, as foreign objects can damage the mechanism.
- Do not place more than one disc in each tray at any one time.
- Remember to always close the carousel when the unit is not in use.
- If the carousel is obstructed from opening or closing, it will slide either back in or out, respectively.

6. OPEN BUTTON

Opens and closes the carousel to enable compact discs to be inserted, changed or removed.

- When the POWER button is set to ON, the carousel turns clockwise automatically inside the unit, as it searches for discs.
- Press the OPEN button. The carousel slides out.
- To insert a compact disc in the carousel, remove a disc from its case holding it by its edges and insert it flat - with the printed side facing upwards -, in one of the 5 trays. If it is a 12cm/5" disc, place it within the outer grooves of the tray. If it is an 8cm/3" disc (CD single), place it within the inner grooves of the tray. Each tray has a number assigned to it (from 1 to 5), engraved on the left hand side of each tray.
- Press the OPEN button again. The carousel will slide back inside.

NOTE: Make very certain that all discs are inserted in their trays correctly, as otherwise they can get stuck inside the unit, and damage the internal mechanism of the changer.

7. DISC SELECT BUTTON

Moves the carousel clockwise, either to insert or select of the next disc for playback. This button is also available on the remote control unit.

- While in STOP mode, press the DISC SELECT button. Each time the DISC SELECT button is pressed the carousel turns clockwise to the next tray position. The display shows which tray is currently ready to play.
- While in PLAY mode, press the DISC SELECT button. The display will show the next disc number and will automatically start playing track one of the next disc.

8. DISC NUMBER BUTTONS

Allows individual selection of one of the 5 discs available in the carousel. These buttons are also available on the remote control unit.

- While in STOP mode, press one of the DISC NUMBER buttons, to choose the desired disc. The display will indicate the chosen disc number and the changer will remain in STOP mode.
- While in PLAY mode, press one of the DISC NUMBER buttons, to change the currently playing disc. The display will indicate the newly selected disc, but the currently playing disc will carry on playing.
- Press the PLAY button within approximately 10 seconds, to instruct the changer to change to the newly selected disc. If the PLAY button is not pressed within 10 seconds, the changer will ignore the newly selected disc and the display will revert to showing the currently playing disc information.

9. REMOTE CONTROL SENSOR AND MULTI-FUNCTION DISPLAY

The sensor is used for receiving the information signals from the remote control unit. The more directly the remote control unit is pointed toward the sensor, the better will be the reception of such signals.

The multi-function display provides comprehensive information on the number of tracks on the disc, the playing time, the state of play and special functions of the changer:

- **PLAY mode** — when the PLAY button is pressed, the display indicates the word PLAY - next to the PLAY symbol (▶) -, as well as the currently playing disc, track and index numbers, and the elapsed track playing time (indicated by the word EACH), under the MIN and SEC indicators.
- **STOP mode** — when the STOP button is pressed, the display shows the currently selected disc number, track number 1 and index number 01. The MIN and SEC indicators show 0:00. If a specific disc and/or track is selected during STOP mode, the display will only show the disc and/or track and/or index numbers chosen.
- **PAUSE mode** — when the PAUSE button is pressed, the display shows the word PAUSE, next to the PAUSE indicator (||). The disc keeps spinning in the same position, but the sound is muted.
- **PROGRAM mode** — when the PROGRAM button is pressed, the word MEMORY is shown, and to the left of it, the letter P, followed by a program entry number. If the program entry number is flashing, it means it is waiting for you to store a new track number by pressing the PROGRAM button.
- **INTRO SCAN mode** — when the SCAN button is pressed, the display shows the word INTRO.
- **RANDOM mode** — when the RANDOM button is pressed, the display shows the word RANDOM.
- **REPEAT mode** — either the word REPEAT, REPEAT ALL or REPEAT ONE appears on the display, depending on when and on how many times the REPEAT button is pressed.
- **TIME display** — shows either elapsed track playing time; elapsed disc playing time (and total number of tracks on the disc); remaining track playing time; or remaining disc playing time (and remaining tracks still to be played), depending on how many times the TIME button is pressed.

10. PLAY BUTTON

Plays the compact discs in the carousel. This function is also available from the remote control unit.

Playing the disc(s)

- Correctly load a disc(s) in a tray and close the carousel.
- While in STOP mode, press a DISC NUMBER or DISC SELECT button to select a disc to play. The chosen disc number will appear on the display.
- If there is no disc in the chosen tray, the changer will turn clockwise, and look for the next tray with a disc in it. If there are no discs in any of the trays, the changer will stop turning after the 5 trays have been searched and will remain in STOP mode.
- As each track ends, the changer moves to play the next track number. When all the tracks on a disc have been played, the changer starts playing track 1 of the next disc. When all the tracks on the last tray have been played, the changer stops and the changer reverts to STOP mode. Starting play with a specific disc and track number
- While in STOP mode, select the desired disc, using a DISC NUMBER or DISC SELECT button.

- Press one of the TRACK buttons to select the desired track number. Both desired DISC and TRACK numbers will be shown on the display.
- Press the PLAY button. The PLAY indicator lights up, and all the tracks on all the discs will be played from that chosen point onwards.
- When all the tracks on the last disc have been played, the changer stops and the display shows it is in STOP mode.

NOTE: The changer will play a disc even if the carousel is not closed, thus it enables you to change at least two discs without interrupting play. However, the carousel should not be left open long, to avoid it getting dusty or dirty.

11. STOP BUTTON

Stops disc playback. This function is also available from the remote control unit.

- To end play before the disc has ended, press the STOP button. The disc will stop and the display will show it is in STOP mode
- While in PLAY mode, pressing the STOP button also cancels all previously activated functions, except the PROGRAM mode.

NOTE: the changer will stop automatically, when the last track on the last disc has finished playing (unless the REPEAT function is activated).

12. ◀ TRACK ▶▶ BUTTONS

Skip sequentially across the disc to the beginning of each track, in either a forward (▶▶) or reverse (◀◀) direction. These buttons are also available from the remote control unit.

- To select the next track, press the TRACK ▶▶ button.
- To select the previous track, press the ◀◀ TRACK button.
- The track buttons can move in single steps, when pressed a single time, or continuously when the buttons are held down.
- When one of the TRACK buttons is pressed in STOP mode, the changer will skip along all the available tracks (from 1 to 99) in either direction until the TRACK button is released. The changer will remain in STOP mode.
- If a track number is selected, while in STOP mode, which is greater than the highest track number available on the disc, play will start with the last track on the disc.
- When one of the TRACK buttons is pressed in PLAY mode, the changer will skip only along the available tracks of the disc, in either direction, until the TRACK button is released.
- The TRACK buttons will not skip to tracks of the next or previous disc.

13. PAUSE BUTTON

Temporarily interrupts playback. This function is also available from the remote control unit.

- The PAUSE button does not work while the changer is in STOP mode.
- For short playback interruptions press the PAUSE button when in PLAY mode. The PAUSE indicator lights up.
- The disc continues to spin at the same location, but the sound is muted. The SEARCH, TRACK, DISC NUMBERS and DISC SELECT buttons can be used during PAUSE mode to move to another disc, track or passage.
- To cancel the PAUSE mode, press the PAUSE or PLAY button. The PAUSE indicator disappears and the PLAY indicator lights up. Sound re-starts either at the exact point where playback was interrupted or at the new point moved to while in PAUSE mode.
- The STOP button will also cancel the PAUSE mode, reverting the changer to STOP mode.

OPERATION OF THE STEREO COMPACT DISC CHANGER - Remote Control Unit

See Illustration 4 - Remote Control Unit, to visualize the location of the different buttons.

NOTE: Refer to the section: "OPERATION OF THE STEREO COMPACT DISC CHANGER - Front Panel", for details of buttons whose functions are not described in this section, as their functions are duplicated exactly.

14. DIRECT TRACK ACCESS BUTTONS

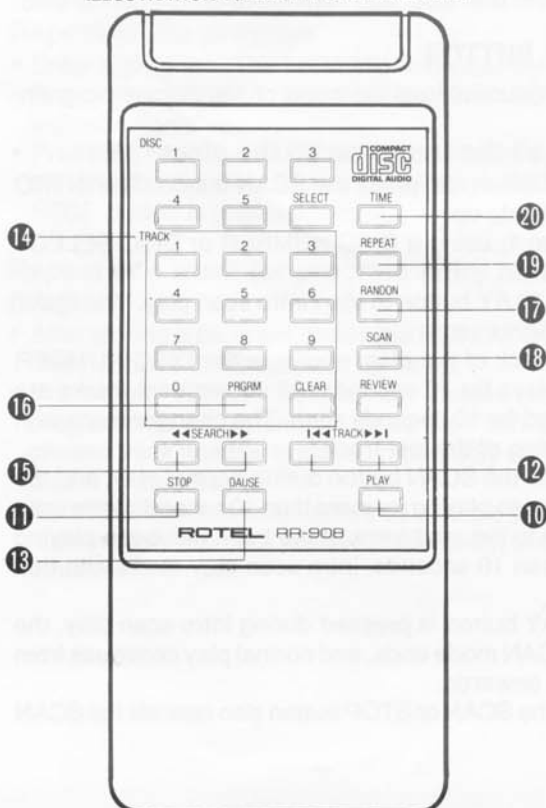
Allow easier and faster selection of a desired track, without having to use the TRACK buttons.

- To select a track while in STOP mode. Select the track number by pressing the DIRECT TRACK ACCESS buttons - from the 10 key-pad available (select from 0-99). The display shows the selected DISC and TRACK numbers. To play the selected track, press the PLAY button.
- To select a track while in PLAY mode. Select a disc number and press the DIRECT TRACK ACCESS button(s), as above. The display shows the newly selected track number, but keeps on playing the old track. Press the PLAY button within 5 seconds of pressing the DIRECT TRACK ACCESS button, to activate playback of the newly selected track. The selected track will be shown on the display. If more than 5 seconds go by before pressing the PLAY button, the display reverts to displaying the old track number, and ignores the new selection.
- The DIRECT TRACK ACCESS buttons cannot be used during PROGRAM mode.

15. ◀◀ SEARCH / INDEX ▶▶ BUTTONS

When in STOP mode, the index function is active (Note: some discs have tracks that are divided into sections - each section is called an index and is numbered), and the ◀◀ INDEX ▶▶ buttons will skip through the different indexes available on a track. When in PLAY mode, the SEARCH function is active and the ◀◀ SEARCH ▶▶ buttons will scan the disc in a forward (▶▶) or reverse (◀◀) direction, to locate a particular passage in a track.

ILLUSTRATION 4 (REMOTE CONTROL UNIT)



The ◀◀ INDEX ▶▶ buttons

- To select an index number the changer must be in STOP mode.
- Hold down either the ◀◀ INDEX button to skip backwards, or the INDEX ▶▶ button to skip forwards.
- The INDEX buttons can move in single steps if pressed a single time, or continuously if the buttons are held down.
- When one of the INDEX buttons is pressed, the changer will move along the tracks in either direction until the INDEX button is released. The disc, track and index number will be shown on the display.
- To play the chosen index number, press the PLAY button.

NOTE: If the selected track is not indexed, an index number can still be selected and displayed. However, play will start at the beginning of the track, ignoring the index number. If an index number is selected, which is greater than the highest index number available on the track, play will start with index number 1.

The ◀◀ SEARCH ▶▶ buttons

- To use this function the changer must be in PLAY mode.
- Hold down either the ◀◀ SEARCH button to scan backwards, or the SEARCH ▶▶ button to scan forwards. When the buttons are released playback starts immediately.
- During SEARCH mode, the changer moves at 2 successive speeds. The top speed is reached after the SEARCH button is pressed for 3/4 seconds. The volume is lowered to about a quarter of the current volume, unless the PAUSE button has been pressed, in which case the sound will be muted.
- The unit will stop searching once it reaches either limit on the disc, though the disc will continue spinning. Play will be resumed when the SEARCH buttons are released.
- When the unit is in PROGRAM mode, searching will stop at the limits of the currently playing track.

16. PROGRAM BUTTON (PRGM)

Allows playback, in any order, of personally selected tracks. Programs may be reviewed, changed, added to and deleted.

Programming a selected number of tracks for playback

- You can only program when the changer is in STOP mode.
- Press a DISC NUMBER or DISC SELECT button to select a disc.
- Press one of the TRACK or DIRECT RANDOM ACCESS buttons to select a track.
- Press the PROGRAM button. The MEMORY indicator lights up and the display shows "P-01" (the number indicates the program entry number, and will flash if the changer is waiting for the PROGRAM button to be pressed).
- If the PROGRAM button is pressed before the first disc and track numbers are selected, track 1 of the displayed disc is entered as program selection number 1. The first program selection is now stored in the program memory.
- To include more tracks in the program, choose the next desired track, and then press the PROGRAM button to store it in the memory.
- To enter all the tracks on a disc, as one program entry number, select the disc with a DISC NUMBER or DISC SELECT button, and then press the PROGRAM button. The TRACK number display shows the word "ALL". The TRACK buttons cannot be used to skip to different tracks within such an ALL disc program entry.

- The changer's memory will accept a maximum of 32 program entry numbers. If you exceed that number, the word "FULL" will appear - instead of the program entry number - for about 1 second. The changer will ignore the 33rd program entry number, and revert to displaying "P-32".

NOTE: Track numbers which exceed the highest track on a disc can be programmed, but during play these tracks will be ignored. Index numbers cannot be entered into a program.

Playing a program

- To play the programmed tracks or program, press the PLAY button after entering a program. The PLAY indicator and the first track number of the program light up, and playback begins.
- The changer proceeds to play all programmed tracks, and then reverts to STOP mode.

NOTE: While playing a program, DISC NUMBER, DISC SELECT and DIRECT TRACK ACCESS buttons cannot be used. The TRACK buttons will skip along the tracks within the program.

Reviewing the sequence of the program

- While the changer is still in STOP mode, and the MEMORY indicator is lit up, press the REVIEN button. Each time the REVIEN button is pressed once, the contents of the next programmed selection are shown on the DISC and TRACK NUMBER displays. The TIME display shows the program entry number.
- If the REVIEN button is pressed and held down, the display shows the entire contents of the program memory, in its programmed order, one selection at a time.

Changing a program

- To change a program entry number for another track, the changer should be in STOP mode.
- Press the REVIEN button as many times as necessary, until the desired track - which you want to remove and change for another - is displayed.
- Press a DISC NUMBER button to select a disc number. Press one of the TRACK or DIRECT TRACK ACCESS buttons to select a track number. The program entry number flashes.
- Press the PROGRAM button. The program entry number stops flashing, showing that the new entry has been replaced by the old one. To check simply use the REVIEN button again.

Adding selections to a program

- During STOP mode (with the MEMORY indicator lit up), select a disc, using a DISC NUMBER button, and press one of the TRACK or DIRECT TRACK ACCESS buttons to select a track.
- Press the PROGRAM button. The program entry number stops flashing, showing that the new selection has been stored at the end of the program.

Deleting a program

- During STOP mode, press the CLEAR button to clear the program memory. The MEMORY indicator disappears and the changer remains in STOP mode.
- During programmed PLAY mode, press the CLEAR button to clear the program memory. Programmed play will end and normal play will continue from that point onwards.

NOTE: The program memory is also cleared if the CD changer's power is switched off.

17. RANDOM BUTTON

Plays the tracks on the disc in a non-sequential (random) order, different to that predefined by the disc.

Random play

- While in STOP mode, press the RANDOM button . The RANDOM indicator lights up.
- Press the PLAY button. The PLAY indicator lights up and random play begins. The changer selects and plays tracks from the various discs, at random, until the STOP button is pressed.
- Pressing the RANDOM button during random play, will select and play another random track.
- If - during random play -, a new track number is selected using the DIRECT TRACK ACCESS buttons, followed by the PLAY button, the RANDOM mode will end and normal play will continue from the newly selected track number.

Random programmed play

- Pressing the RANDOM button during programmed play, will play a random track, chosen from the selections available in the program. Once all the selections in the program have been played once, the changer will stop and the RANDOM mode will automatically be canceled.
- If - during random programmed play - a new track number is selected using the DIRECT TRACK ACCESS buttons, followed by the PLAY button, the new track number will be ignored, the RANDOM mode will end and programmed play will continue with the currently playing track.

Cancelling the RANDOM mode

- To cancel the RANDOM mode, either press the PLAY button - in which case normal or programmed disc play will continue, or press the STOP button - in which case the changer will revert to STOP mode. The RANDOM indicator will disappear.

NOTE: If all the tracks on a disc have been entered as a single selection in a program, the random play function will select one track from that disc, and then move on to another disc.

18. SCAN BUTTON

Plays an introduction to all the tracks on the discs or program.

Scanning all the tracks on all the discs

- During STOP mode, press the SCAN button. The INTRO indicator lights up.
- Select disc 1, using a DISC NUMBER or DISC SELECT button.
- Press the PLAY button to start intro scan play. The PLAY indicator lights up.
- The first track of the disc, shown in the DISC NUMBER display, plays for 10 seconds. All subsequent tracks are then played for 10 seconds each. The changer stops with the scanning of the last track.
- If you press the SCAN button during normal play, and the track has been playing for more than 10 seconds, intro scan play skips to the next track. If the track has been playing for less than 10 seconds, intro scan play starts with that track.
- If the PLAY button is pressed during intro scan play, the INTRO SCAN mode ends, and normal play continues from that point onwards.
- Pressing the SCAN or STOP button also cancels the SCAN mode.

Scanning a program

- After programming, press the SCAN and PLAY buttons.
- The intro scan function will play an introduction to only those tracks which have been programmed.
- Upon finishing the entire programmed intro scan play, the changer reverts to STOP mode.

Intro scan time setting

- To change the default intro scan play time of 10 seconds, select - while in STOP mode - the new intro scan play time, by pressing the TRACK buttons (from 1 to 99 seconds).
- Press the SCAN button. The INTRO indicator lights up and the STOP mode display appears again.
- The default is changed to the new time, as long as the intro scan mode is activated. As soon as the intro scan function is canceled (or the power turned off), the time reverts to the default 10 seconds.

19. REPEAT DISC PLAY

Initiates repeat playback either of the entire disc, program or currently playing track.

Repeat all the tracks on all the discs

- Press the CLEAR button (to ensure the MEMORY indicator is off).
- Press the REPEAT button once and the REPEAT ALL indicator lights up. After pressing the PLAY button, all the loaded discs will be played repeatedly until the STOP button is pressed.

Repeat one track

- Press the CLEAR button (to ensure the MEMORY indicator is off).
- Press the REPEAT button twice. The REPEAT ONE indicator lights up.
- If in STOP mode, press a DISC NUMBER or DISC SELECT button to select a disc. Press one of the TRACK or DIRECT TRACK ACCESS buttons to select a track. Press the PLAY button. The PLAY indicator lights up and the selected track will be played repeatedly until the STOP button is pressed.
- If in PLAY mode, the changer will repeat the track currently indicated on the display.

Repeat all the program

- Enter a program. The MEMORY indicator lights up.
- Press the REPEAT button once. The REPEAT ALL indicator lights up.
- Press the PLAY button. The PLAY indicator lights up. All the programmed tracks are played repeatedly until the STOP button is pressed.

Repeat one track (or program entry number) of a program

- After storing a program, press the REPEAT button twice. The REPEAT ONE indicator lights up.
- Press the TRACK buttons to choose the desired programmed entry number. Press the PLAY button. The chosen track number is played repeatedly until the STOP button is pressed.
- If a whole disc has been stored as a single program entry number, only one track is played repeatedly, until the STOP button is pressed.

Canceling the repeat mode

- Press either the STOP button - in which case the changer will revert to STOP mode -, or press the REPEAT button until the either the REPEAT ALL or REPEAT ONE indicator disappears - in which case normal or programmed play continues from that point onwards, and the changer stops when the last track on the last disc or program has ended.

Repeat and random play of a program

- When both repeat and random modes are activated together during programmed play, the REPEAT and RANDOM indicators light up. Programmed tracks are played at random, repeatedly, until the STOP button is pressed. Once all tracks have been played once, another run will be played in a different order.
- Pressing the PLAY button will cancel the RANDOM mode, but not the REPEAT or PROGRAM modes. The display, however, now shows the REPEAT ALL indicator.

Repeat and intro scan play of a program

- When the repeat and intro scan modes are activated together during programmed play, the REPEAT ALL and INTRO indicators light up. Intro scan play is repeated for the tracks on the program, until the STOP button is pressed.

Repeat, random and intro scan play of a program

- When the repeat, random and intro scan modes are activated together during programmed play, the REPEAT, RANDOM and INTRO indicators light up. Random intro scan play is repeated for the tracks on the program, until the STOP button is pressed.
- If the REPEAT button is pressed again, repeat play is cancelled and only random intro scan play begins.

20. TIME BUTTON

Gives out readouts of the elapsed track, remaining track, elapsed disc and remaining disc playback times, during play mode.

- Press the TIME button once to visualize the remaining track playback time. The display shows the words EACH REMAIN and the currently playing track number.
- Press the TIME button again to visualize the elapsed disc playback time. The display shows the word TOTAL and the total number of tracks on the currently playing disc.
- Press the TIME button once more to visualize the remaining disc playback time. The display shows the words TOTAL REMAIN and the number of tracks that still remain to be played.
- Press the TIME button once again to visualize the elapsed track playback time (default display). The display shows the word EACH and the currently playing track number.

NOTE: After visualizing the remaining track, elapsed disc and remaining disc playback times, for 10 seconds, the changer automatically reverts to the default elapsed track playback time display.

TROUBLESHOOTING GUIDE

If your compact disc changer does not seem to function properly or you suspect it is faulty, please consult the points below to check if the problem can be first solved without calling up a technician.

NOTE: Under no circumstances should you open the changer, as you may cause damage and void its warranty.

NO POWER WHEN THE POWER BUTTON IS SET TO ON

- The mains plug is not connected properly into the mains outlet.
- The POWER button has not been pressed in far enough.
- There is no power supply at the mains outlet. Check if another appliance works in that outlet.

THE DISC TRAY DOES NOT SLIDE OUT

- The changer is not switched on.
- The microprocessor has not received the command properly. Try switching the POWER button off and on again and then press the OPEN button.

THE DISC TRAY DOES NOT SLIDE IN

- The mains supply has been interrupted. Check that the display is lit up.
- The microprocessor has not received the command properly. Try switching the POWER button off and on again and then press the OPEN button.

DISC PLAY DOES NOT START

- A disc is loaded incorrectly. Open the carousel and check all discs are loaded correctly, ensuring no disc is loose inside the changer (as this could damage the unit's internal mechanism).
- The laser pick-up has been covered with moisture condensation, due to rapid changes in temperature or exposure to high levels of dampness. Remove the disc, and leave the changer switched on for about an hour until the moisture evaporates.

A COMPACT DISC HAS GOT STUCK INSIDE THE UNIT

- Using the DISC SELECT button, make the carousel turn a few times - either while it is open or closed -, to see if the disc will fall back into a tray on its own. If the disc does not come out, call up a qualified technician. Do not - under any circumstances - try to take the stuck disc out in any other way, as this could seriously damage the unit and invalidate your warranty.

THERE IS NO SOUND WHILE THE DISC IS BEING PLAYED

(To ensure the disc is playing, check that the display shows the track number and that the time indicator is moving on regularly)

- The amplifier is not switched on.
- The position of the amplifier source selector does not coincide with the input to which the changer is connected.
- The amplifier or the loudspeakers connected to it are not working. Check with another sound source.
- The microprocessor has not received the command properly. Try switching the POWER button off and on again.
- The headphone jack is not plugged in, or the volume control is set to the minimum.
- The connection between the changer and the amplifier is broken.
- The input to which the changer is connected is defective. Try connecting the changer into another input socket.

THE SOUND IS POOR OR DISTORTED OR YOU CAN HEAR ONLY ONE CHANNEL

- The changer is not connected to the CD, AUX, TUNER or TAPE IN input of the amplifier, but to the PHONO input.
- The interconnect cables or the headphone jack are not connected properly.
- The disc is dirty or badly scratched. Try cleaning or using another disc.
- The amplifier or loudspeakers are not working properly. Check another sound source.

PROGRAMMING IS NOT WORKING

- The microprocessor has not processed the commands properly. Erase the program and check if a newly stored program works.
- All 32 memory blocks are occupied and you have missed the displayed "FULL" indicator which indicates this.

PLAYBACK DOES NOT BEGIN WITH THE FIRST TRACK OR ENDS BEFORE IT SHOULD

- The microprocessor has not received the command properly. Try switching the POWER button off and on again.
- The disc is dirty, badly scratched or defective. Try cleaning or using another disc.
- There is an unwanted object in the tray.

THE CHANGER DOES NOT REACT TO COMMANDS FROM THE REMOTE CONTROL UNIT

- The distance between the changer and the remote control unit is too great.
- You did not aim accurately enough in the direction of the changer.
- The batteries are weak or empty.

SPECIFICATIONS

DIGITAL

Laser type	3 Beam Tracking System
Disc Readout Diameter	12 cm/5" , 8 cm/3"
D/A Converter	One-bit bitstream
Digital Filter.....	18 bits over 8 times oversampling
Total Oversampling	192 times
Error Correction	CIRC
Sampling Frequency	44.1 kHz

AUDIO

Number of Channels	2
Frequency Range.....	20 - 20,000 Hz
Output Level	2 Vrms
Amplitude Linearity	1 dB
Channel Imbalance	0.5 dB
Signal-to-Noise Ratio.....	100 dB
Dynamic Range.....	93 dB
Channel Separation.....	100 dB (1 kHz)
THD + Noise.....	0.004 %
Intermodulation Distortion...	0.004 %
Wow and Flutter.....	Quartz Crystal Precision (> 0.002%)

Power Supply

Mains Voltage	120 V, 50/60 Hz 230 V, 240 V, 50/60 Hz
Power Consumption	20 W

Cabinet

Overall Dimensions	440 (W) × 394 (D) × 115 (H) mm 17-1/3" (W) × 15-1/2" (D) × 4-1/2" (H)
Net Weight.....	6.3 kg/13.9 lbs

NOTE: Specifications and design are subject to possible modification without notice.

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