

SAFETY INSTRUCTION

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. Use Appliance Safely— The appliance should be used in accordance with the instructions and in a safe manner.

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 enclosure damaged.

Service— The user should not attempt to service the appliance beyond that described in the operating instructions.

factory authorized service personnel.

STEREO CONTROL AMPLIFIER

RC-960BX

owner's manual

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 Requirement— The appliance should be serviced by qualified service personnel.

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 near the name plate on the rear panel.

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 un-insulated "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.

SAFETY INSTRUCTION

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:

- 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 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.

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

PORTABLE CART WARNING



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.

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ENGLISH

STEREO CONTROL AMPLIFIER RC-960BX

A WORD FROM ROTEL

Rotel take this opportunity to thank you for choosing our equipment for your home entertainment.

Rotel equipment represents a very high state of the art in sound reproduction, as the result of our everlasting determination to achieve the truly hi-fi performance. Please enjoy the sound Rotel have created for many years to come.

To make sure you get the most out of your equipment, please read this owner's manual carefully before you attempt any connections.

BEFORE CONNECTIONS

1. PLACE FOR INSTALLATION

Ensure to place the unit in a flat surface where it is free from humidity, vibration, high temperature and not exposed to direct sunlight. Also, be careful not to place the unit in a highly enclosed area without adequate ventilation around the unit. Do not block the ventilation openings at the top and the bottom of the unit to prevent excessive heat built up.

2. Electrical Requirements

Your equipment has been designed to be powered by the local AC voltage. Check the setting of your unit by looking at the rear panel name plate. Never try to plug the unit into an outlet of higher voltage, as this causes a serious fire hazard. Consult your dealer if in doubt.

3. Connecting the Power Cord

Always handle the Power Cord with care. Ensure to connect the cord to the household wall outlet. When plugging and unplugging make sure the power switch on the unit is turned off.

4. Do not Open the Cabinet

There are no user-serviceable parts inside the cabinet of the unit. Do not attempt to open the cabinet or tamper with the internal components. If water or foreign object falls inside the unit by accident, disconnect the power cord immediately and consult a qualified electrician or your dealer.

5. Cleaning Your Unit

If your unit becomes dirty, wipe it gently with a soft, dry cloth. Never use solvents of any kind.

6. AC Outlet Receptacles (applicable to U.S.A., Canada, and where approved for the usage)

There are two sets of the AC outlets on the back panel of the unit, through which power can be supplied to equipments connected to the unit such as your turntable and CD player. Each AC outlet is the switched type, so turning the power on and off is controlled by the power switch of the unit. The total power consumption of the equipments must not exceed the rating of 200 watts maximum. Never connect a power amplifier to the AC outlet.

CONNECTIONS

1. Connecting Components

The illustration shows what audio components you can connect to the rear panel of the unit and how they should be properly hooked up via RCA type pin cords. Ensure that the Left and the Right channels are correctly matched between the RCA type sockets of the unit and those on the components.

2. Connecting Power Amplifier

a) Normally connect your power amplifier to the outputs 1 on the back of the unit.

b) If you wish to connect another power amplifier, use the OUTPUTS 2. OUTPUTS 1 and 2 are electrically connected in parallel, so using two identical power amplifiers allows bi-amplification to speakers with one power amplifier driving tweeters and the other driving woofers. You may also connect two different power amplifiers, one driving speakers in the main room and the other driving remote speakers in the other room with the same input source. In such case, make sure to turn the power off on the other power amplifier when only using one power amplifier.

3. Connecting Phono Turntable

a) When connecting your turntable on the back of the unit, the MM/MC selector switch near the PHONO sockets must be set to either MM or MC position depending on the type of your cartridge. For all normal MM type cartridges, set to the MM position, and for all regular MC type set to the MC position. However, there are few MC cartridges with high output sensitivities in similar level to the MM type, so if one of such cartridges is used set to the MM position.

b) Connect the grounding wire of the turntable to the GND screw terminal on the back of the unit near the PHONO sockets.

4. Connecting Tape Recorder

a) When connecting only one tape recorder (cassette deck, DAT, ect.), use the TAPE 1 inputs and output.

b) When connecting two tape recorders, use the TAPE 2 inputs and outputs for the recorder which you wish to use for recording (dubbing) the other recorder, which then is connected to the TAPE 1 inputs and outputs. For example, connect a DAT deck to the TAPE 1 jacks and a cassette deck to the TAPE 2 jacks, as normally you wish to record DAT tapes onto cassette tapes.

SWITCHES AND CONTROLS

(1) Power Button

Press this button to turn on and off the unit.

(2) Power Indicator

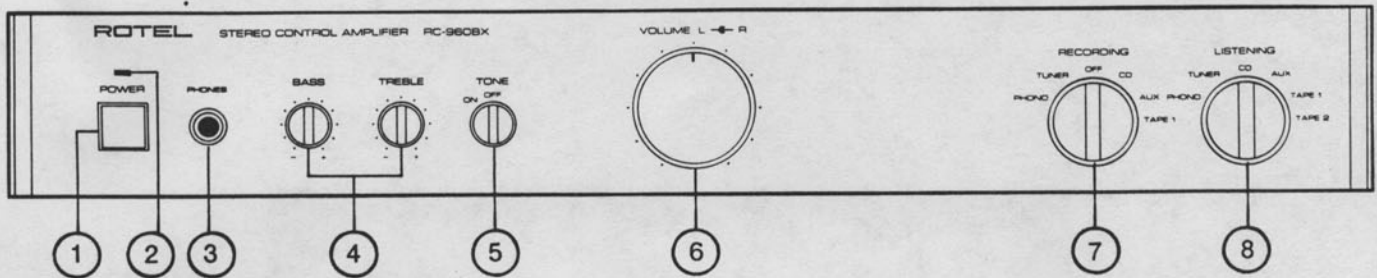
Glows when power is turned on with the power button.

(3) Phones Jack

Plug your headphones to this jack, making sure it has the correct type connector. The sound level of the headphones is regulated by the volume control.

(4) Tone Controls

The BASS control regulates the low frequencies and the TREBLE control regulates the high frequencies. The center points are for the flat frequency response. Turn clockwise to boost the response and counterclockwise to reduce it,



if your listening room acoustics are excessively lively or dead and requires the compensations when adjustments by relocating the speakers, rearranging furnitures, etc. all failed.

(5) Tone Selector

Normally the tone controls should be deactivated by this switch set at the OFF position, where signals completely bypass the tone control circuit for minimal deterioration of the sound quality. The tone controls will not function at this position. If the operation of the tone controls is necessary, set the selector to the ON position to activate the tone controls.

(6) Volume Control

Used to regulate the volume level. Turn clockwise to increase the level and counterclockwise to reduce it. The control permits either the combined or the separate adjustment of the left and the right channels. Normally turn the dual concentric knob as one for the combined adjustment. When it is necessary for the separate adjustment of each channel due to unbalanced sound levels between both channels, hold the front part of the knob with one hand and turn the rear part of the knob independently. Due to the high quality material and construction used on the volume control for sound quality, the sound level will not rise sharply at low settings. Normally, the control is recommended to be set between 11:30 to 2:00 o'clock position with other Rotel's equipments connected, but a finite adjustment will depend on the sensitivity of your speakers.

(7) Recording Selector

Permits choose any input connected to the unit and feed it directly to the TAPE 1 and TAPE 2 outputs on the back of the unit for recording the selected input. However, note the TAPE 1 input can be recorded by TAPE 1 output. It is possible to record one source, e.g., CD or TUNER, while listening to a different source such as PHONO or AUX. When not recording, ensure to set the selector at the center OFF position to cut off the circuit completely from the signal path.

(8) Listening Selector

Allows choose any input connected to the unit. The selector operates independently from the recording selector above, so you can listen to one source while recording another different source.

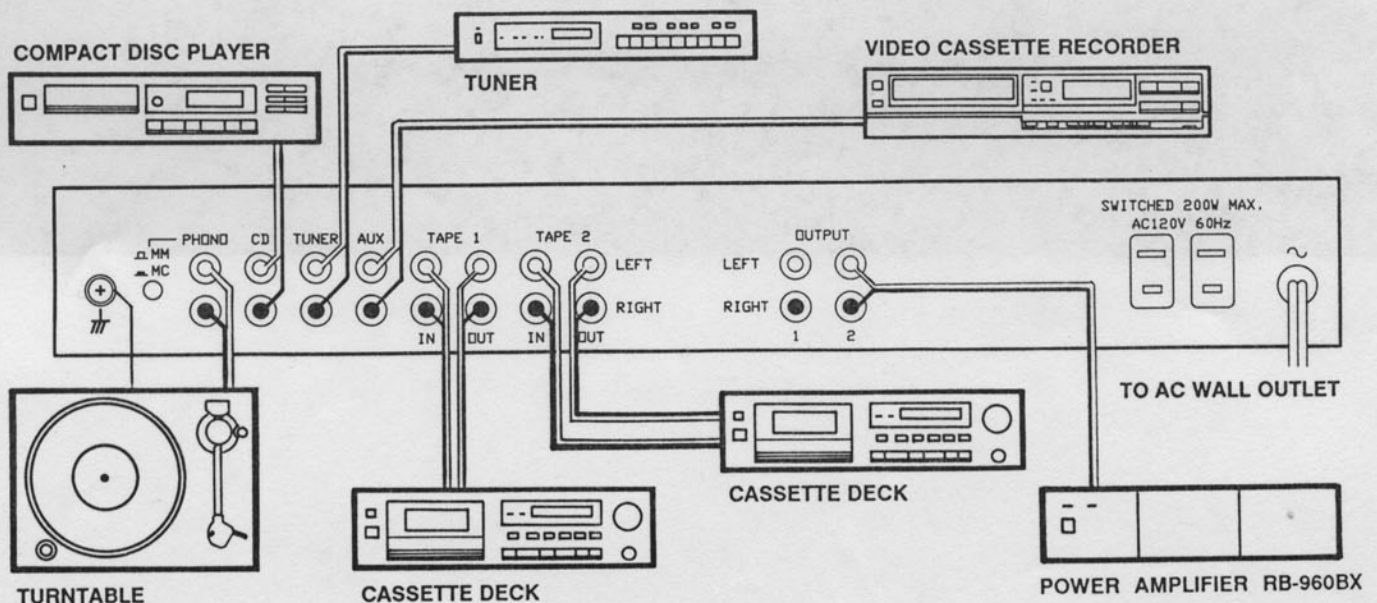
WORDS ON OPERATIONS

Precautions

1. Before commencing operation, check to see if all connections are properly made.
2. Always ensure to set the volume control to the minimum position before turning on the Power switch.
3. Make sure the Recording selector is at the OFF position when listening to any source and not recording.

Playing Turntable

1. Set to the PHONO position on the Listening selector.
2. Use only a high quality cartridge to obtain the maximum potential from the unit's high quality phono circuit.



3. Using a MC cartridge with an extremely low sensitivity way below the specified value on the SPECIFICATIONS table at the last section of this manual may create problems. Try avoid use such cartridge, as there are many as good ones with the normal output sensitivities.

4. Usually using cartridges as recommended by your dealers will prevent any grief on the suitable matching.

Tuner Reception

1. Set to the TUNER position on the Listening selector.

2. If possible, turn your tuner's power off when not operating it. Although crosstalks are held to minimum by the circuit design, this is the perfect way to cut off the signal from the radio reception bleeding through to the other inputs connected to the main unit.

Operating CD Player

1. Set to the CD position on the Listening selector.

2. Read the instruction manual of your player carefully to maximize the full potential.

3. Using higher quality interconnecting cords between your CD player and the amplifier may often improves sound quality.

Tape Deck Playback

1. Set to the TAPE 1 or TAPE 2 position on the Listening selector depending on which input your tape deck is connected.

2. Use only a good quality cassette tape deck (in terms of sound quality) or a DAT deck, etc. for maximizing the full potential of the amplifier.

3. Using higher quality interconnecting cords between your tape deck and the amplifier may often improves sound quality.

Recording with Tape Deck

1. Set the Recording selector to any input you wish to record, and proceed the recording with your tape deck connected to the TAPE 1 or TAPE 2 outputs. If you have two tape decks connected, you can only dub the tape deck connected to the TAPE 1 inputs with the TAPE 2 outputs. The TAPE 2 inputs cannot be recorded by the TAPE 1 outputs.

2. During recording, operation of the volume control and the Tone controls have no effect on the recorded signal being fed to the TAPE 1 or TAPE 2 outputs.

3. You may monitor recording signals by setting the Listening selector to the same input as the Recording selector. For example if you are recording CD, set the Listening selector to CD.

Dubbing

1. When two tape decks are connected, you can dub (tape-to-tape copy) one tape deck to the other tape deck. Note the dubbing can only be done from the deck connected to the TAPE 1 input to the other deck connected to the TAPE 2 output.

2. The Volume control and the Tone control settings have no effect on the signals being recorded.

HUM AND NOISE

In any high fidelity installations, hum may be caused by the interconnection of turntable, tuner, amplifier and speakers as the result of wiring, different grounding or locations of components.

If hum is experienced with your unit, disconnect everything but the speakers from the unit. Plug in the turntable and if hum or howling appears, move it away from the speakers as much as possible.

Note hum may also be induced by defective cable connections or by running the cables too close to strong AC field. When your unit picks up noise during the reception of broadcasts, causes are mostly due to external objects such as fluorescent lamps and house appliances using motor or thermostat, or others than may induce noise.

Either relocating the unit away from the noise sources or using an improved outdoor antenna may readily resolve the problem. In the event you cannot find the cause, consult your dealer or qualified electrician.

SPECIFICATIONS RC-960BX

Total Harmonic Distortion.....No more than 0.004%
(20 to 20,000Hz from CD/TUNER) (Rated output)

Intermodulation Distortion.....No more than 0.004%
(60 Hz: 7 kHz = 4:1) (Rated output)

Output: Headphone.....8 – 2,000 ohms

Input Sensitivity/ Impedance:

PHONO: MC.....250 μ V / 100 ohms

MM.....2.5 mV / 47 kohms

CD, TUNER.....150 mV / 24 kohms

AUX, TAPE 1,2150 mV / 24 kohms

Output Sensitivity/ Impedance.....1.0 V / 100 ohms

Overload Level (THD 0.5% 1 kHz):

PHONO: MC.....20 mV

MM.....180 mV

CD, TUNER.....5 V

AUX, TAPE 1,25 V

Frequency Response:

PHONO.....40 to 100 kHz, \pm 0.2 dB
(RIAA STD)

CD, TUNER.....4 to 100 kHz, +0 dB, -3 dB

AUX, TAPE 1,24 to 100 kHz, +0 dB, -3 dB

TONE CONTROL:

BASS..... \pm 6 dB (100 Hz)

TREBLE..... \pm 6 dB (10 kHz)

Signal to Noise Ratio (IHF, A network):

PHONO: MC.....64 dB

MM.....78 dB

CD, TUNER.....95 dB

AUX, TAPE 1,295 dB

MISCELLANEOUS

Power Requirement.....120 V/60 Hz, 220 V/ 50 Hz,
240 V/50 Hz (depending on
destinations)

Power Consumption.....10 watts

Dimensions (overall).....440 (W) x 72 (H) x 286 (D) mm
17-3/8" x 2-7/8" x 11-1/4"

Weight (net).....3.0 kg / 6.6 lbs

- Specifications and design subject to possible modification without notice.

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