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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 near the name plate on the rear panel.
INTRODUCTION
We at Rotel want to thank you for purchasing our audio product. Rotel audio products are designed to use the latest electronic technology, and they incorporate our long experience as a specialist manufacturer of audio equipment. We are confident that you will find satisfaction in the high quality sound and top performance, and that you will find pleasure in the functional beauty achieved through human-engineering concept. Before starting operation, please read this instruction manual thoroughly and acquaint yourself with the proper mode of using the unit and all its connections. We hope you will enjoy top-notch performance for many years to come.

BEFORE ENJOYMENT/POWER SUPPLY
Follow the instructions below for maximum safety:

1. Use a wall outlet for power supply
   Be sure to connect the AC line cord to a household wall outlet. Be certain that the outlet voltage matches the electrical rating of the unit, found on the rear panel name plate.

2. Connecting and removing AC cord
   Be sure to connect or disconnect the AC line cord only after turning off the power switch to prevent possible shock noise or damage to the speakers.

3. Ventilate the unit well
   Never block any ventilation holes at the top and bottom of the unit. Be sure also to provide ample ventilation space around the unit. Poor ventilation may result in damage due to excessive heat.

4. Do not open the cabinet
   In order to avoid electric shock or damage to the component, never open the cabinet. If a foreign object falls inside the unit by mistake, turn the power off, disconnect the wall plug, and consult a qualified electrician or your dealer.

5. Installation
   Be sure to place the unit in a level and flat place where it is free from humidity, vibration, high temperature and not exposed to direct sunlight. Be careful not to place the unit in a highly enclosed place such as near a wall or on a bookshelf. A poor ventilation will cause undesirable effects to the unit.

6. Moving the unit
   When transporting, remove the AC cord from the wall outlet and all other connected cords on the rear panel to prevent wire breakage and short circuits.

7. If the unit gets wet
   If the unit should get wet, immediately disconnect the AC cord, and consult your dealer or a qualified electrician.

8. Cleaning and maintenance
   Do not use chemicals such as benzine or thinner on the front panel. Always use a soft, dry cloth to clean the unit.

9. Owner's manual
   Keep the owner's manual near the unit, and record the serial number (found on the rear panel) on the cover.

EXCLUSIVE NOTE FOR U.K.
If your unit comes with a 2-core cable without a plug, make certain live and neutral leads are connected 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.

SPEAKERS
Use speaker systems with impedance ratings of 8-16 ohms. Before hooking up your speaker system, be sure to check its impedance, which should be indicated either on the back of the speaker, or in the speaker instruction manual.

HOOKING UP SPEAKERS
Connect speaker system to the speaker terminals provided on the rear panel of the unit. The mode of connection differs depending on whether you use it as a stereo power amplifier or as a monaural power amplifier in bridged connection (BTL connection).

A. When using the unit as a stereo power amplifier:
   Connect the speaker leads of the right-hand speaker to "+" and "-" of terminals of "R", and the speaker leads of the left-hand speaker to "-" and "-" of "L". Make sure each "+" speaker lead is connected to the "-" terminal, and "-" lead to the "-" terminal.

B. When using the unit as a monaural power amplifier (BTL connection)
   Connect "+" speaker lead to "+" terminal of "L", and "-" lead to "+" terminal of "R". Strip 1.0cm (3/8") of the polyvinyl chloride insulation from the end of each speaker lead. Twist the exposed strands tightly, and secure the end with a touch of solder.
CONNECTING PREAMPLIFIER

Connect preamplifier to the RB-870. The mode of connection differs depending on usage of the unit; you may use the unit 1) as a stereo power amplifier, 2) as a monaural power amplifier in bridged connection (BTL), or 3) as a monaural input. Power amplifier used in combination with ROTEL stereo integrated amplifier RA-870 in bridged connection (BTL). Please make correct connection in accordance with your usage of the unit.

1. When using the unit as stereo power amplifier

Locate NORMAL/BRIDGED MONO selector above the INPUT/OUTPUT terminals on the rear panel, and set it to NORMAL position.

Using RCA pin cords, connect preamplifier output terminal "L" (left) with the RB-870's INPUT terminal "L", and the preamplifier output terminal "R" (right) with the RB-870's INPUT terminal "R". The OUTPUT terminals of the RB-870 are not used.

2. When using the unit as monaural amplifier (bridged connection)

Locate NORMAL/BRIDGED MONO selector above the INPUT/OUTPUT terminals on the rear panel, and set it to BRIDGED MONO position. In this mode, the INPUT terminal "R" (right) of the RB-870 becomes a monaural input terminal. To this terminal, connect preamplifier output terminal "L" (left) or "R" (right), using a pin cord. The RB-870's INPUT terminal "L", and OUTPUT terminals are not used.

3. When using the unit as monaural amplifier for operation with RA-870 (bridged connection)

Set NORMAL/BRIDGED MONO selectors provided on the rear panels of RB-870 and RA-870 to BRIDGED MONO position respectively. In this mode, the signal fed through the INPUT terminal "L" (left) of the RB-870 will be reversed in phase, and the signal fed through the INPUT terminal "R" (right) is used for monaural reproduction. RB-870's OUTPUT terminal "L" will transmit in-phase signal that has been fed through the INPUT terminal "L", and the OUTPUT terminal "R" will transmit signal that has been fed through the INPUT terminal "R" and reversed in phase. Using RCA pin cords, connect RA-870's PRE OUT terminal "L" with the RB-870's INPUT terminal "L", and RA-870's PRE OUT terminal "R" to RB-870's INPUT terminal "R". Also connect RB-870's OUTPUT terminal "L" with RA-870's MAIN IN terminal "L", and RB-870's OUTPUT terminal "R" to the RA-870's MAIN IN terminal "R". In this fashion, the RB-870 drives right channel speaker, and the RA-870's main amplifier section drives left channel speaker independently. Each amplifier works as a monaural power amplifier, with the rated power-output capability of each unit greater than twice the single-unit rating.

Caution: When using the RB-870 in combination with the ROTEL stereo integrated amplifier RA-870 for bridged connection (BTL), never supply power to the RB-870 through the AC outlet provided on the RA-870.

Be sure to connect the RB-870 power cord to a wall outlet.
SWITCHE AND INDICATORS

(1) Power Button
Depress this button to turn on the power in the unit. Press the button a second time to release it and cut off the power.

(2) Power Indicator
Glows when power is turned on with the power button.

(3) Bridged Mono Indicator
Glows when NORMAL/BRIDGED MONO selector on the unit's rear panel is set to BRIDGED MONO position to use the unit as monaural power amplifier in bridged connection (BTL).

(4) Protection Indicator
Glows when the built-in protection circuit is activated. The indicator normally lights for several seconds upon turning on the power. When the indicator goes off, it means the unit is in the normal operating state. The indicator also glows when abnormally high temperature is built up inside the unit due to low-impedance drive, etc. In such a case, the indicator will remain on until the temperature inside the unit drops to a normal level. When the indicator goes off, it indicates the unit has returned to the normal operating state.

OPERATION
- Before commencing operation, check to see if all connections are properly made.
- Before turning on the power in the unit, always be sure to turn down the preamplifier volume control to minimum.
  1. Turn on the preamplifier.
  2. Turn on the RB-870.
  3. Reproduce a desired source, and raise the volume level on the preamplifier.

HUM AND NOISE
In any high fidelity installation, hum may be caused by the interconnection of a turntable, tuner and amplifier, and speakers as the result of wiring, different grounding or location 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 the turntable 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 a 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 that may induce the noise. Either relocating the unit away from the noise sources or using an improved outdoor antenna may readily solve the problem.

In the event you cannot find the cause, consult your dealer or a qualified electrician.

PROTECTION CIRCUIT
The RB-870 incorporates all possible safety measures by combining multiple protection circuits to prevent accident or damage.

VOLTAGE SELECTION
Not available for U.K., Canada and Scandinavia
The unit is a variable voltage equipment that can run on 120V, 220V or 240V power supply. Your unit should already be preset at the proper voltage for use in your area. However, if you move to an area where the power supply voltage is different, consult your dealer.

SPECIFICATIONS
Continuous Power Output ........ 60 watts* per channel, min. RMS both channels driven into 8 ohms from 20 to 20,000 Hz with no more than 0.03% total harmonic distortion.

DIN Output .......................... 118 watts per channel (1 kHz, 4 ohms, 1% THD)

Power Output (BTL) ................. 120 watts (mono) min. RMS driven into 8 ohms from 20 to 20,000 Hz with no more than 0.03% total harmonic distortion.

Total Harmonic Distortion ......... No more than 0.03% (continuous rated power output)
(20 to 20,000 Hz)
No more than 0.03% (continuous 1/2 rated power output)
No more than 0.05% (1 watt per channel power output, 8 ohms)

Intermodulation Distortion ........ No more than 0.06% (continuous rated power output)
(60 Hz : 7 kHz = 4 : 1)
No more than 0.06% (continuous 1/2 rated power output)
No more than 0.05% (1 watt per channel power output, 8 ohms)

Output: Speaker ................. 16-18 ohms
Damping Factor .................. 280 (20 to 20,000 Hz, 8 ohms)
Input Sensitivity/Impedance ....... 1.0V/26 kohms
Frequency Response .............. 15 to 120,000 Hz, +0 dB, -1.0dB

Signal-to-Noise Ratio
(IHF, A network) .................. 116 dB
Power Requirement .............. 120V/60 Hz, 220V/50 Hz, 240V/50 Hz, or 120, 220, 240V/50-60 Hz (switchable) (depending on destination)

Power Consumption ............... 500 watts
Dimensions (overall) ............. 430 (W) x 315 (D) x 191 (H) mm
16-15/16" x 12-13/32" x 7-9/16"
Weight (net) ...................... 9.4 kg/20.68 lbs

- Specifications and design subject to possible modification without notice.
- *Measured pursuant to the Federal Trade Commission's Trade Regulation Rule on Power Claims for Amplifiers (applicable to the U.S.A. only).