

ENGLISH

SAFETY INSTRUCTION

ROTEL *hifi*

STEREO CASSETTE TAPE DECK

RD-965BX

owner's manual



EXCLUSIVE NOTE FOR U.S. USERS: The voltage in your area varies with a 2-core main lead without a plug. If your area is to be connected to the main lead, a three-core main lead must be connected to the following terminals to the proper terminals. Check that the terminals are screwed down firmly and no loose strands of wire are present.

WIRING CONNECTIONS

in accordance with the following code:

BLUE: NEUTRAL
BROWN: LIVE

As the colour of the wires in the main lead of this appliance may not correspond with the colour of the wires in your area, you should refer to the following code:

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.

ENGLISH

STEREO CASSETTE TAPE DECK RD-965BX

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 of your equipment, please read this owner's manual carefully before you attempt any connections.

BEFORE CONNECTION

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.

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

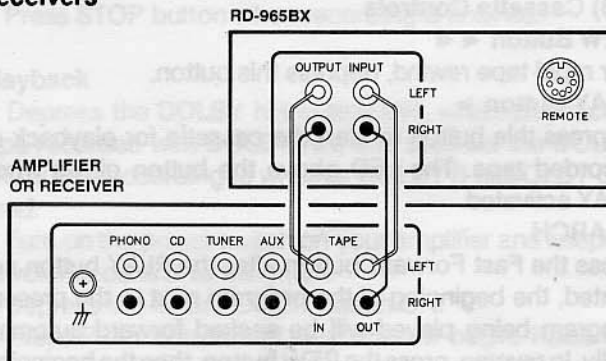
There are no user-serviceable parts inside the cabinet of the unit. Do not attempt to open the cabinet or tamper with the internal components. If water or foreign object falls inside the unit by accidents, disconnect the power cord immediately and consult a qualified electrician of your dealer.

5. Cleaning Your Unit

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

CONNECTIONS

1. Connecting to Integrated Amplifiers, Preamplifiers or Receivers



The illustration shows how the input and output terminals should be properly hooked up via the interconnect cords supplied with the unit to the Tape input and output terminals of your amplifier (integrated amplifier, preamplifier or receiver).

Ensure that the Right (red) and the Left (white) channels are correctly matched.

2. Connecting for Remote control

There is the DIN type socket marked REMOTE on the back of the unit. This is for connecting the unit to the Rotel tuner-preamplifiers or receivers which have wireless-remote control systems. When the unit is connected in such way, the control functions of the unit can be operated by remote control.

SPECIAL FACILITIES

1. Automatic Shutoff System

When either end of tape is reached in play, record, fast forward, or rewind mode, the motor and transport mechanism will automatically shut off, disengaging the present mode.

NOTE: it is still necessary to turn off the unit electrically by pressing the Power button to off.

2. Automatic Tape Selection System

The unit is equipped with the automatic tape selection facility which eliminates the need of manual tape selectors. When a tape is inserted, the setting for correct equalization and biasing in accordance to the type of the tape will be automatically done and indicators show what type of tape is inserted.

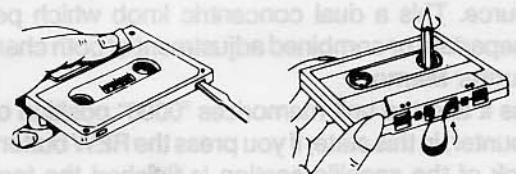
CASSETTE TAPES

1. Use only high quality tapes for best possible result in sound recording. The good or better quality TDK, MAXELL, etc. well known tapes are recommended.

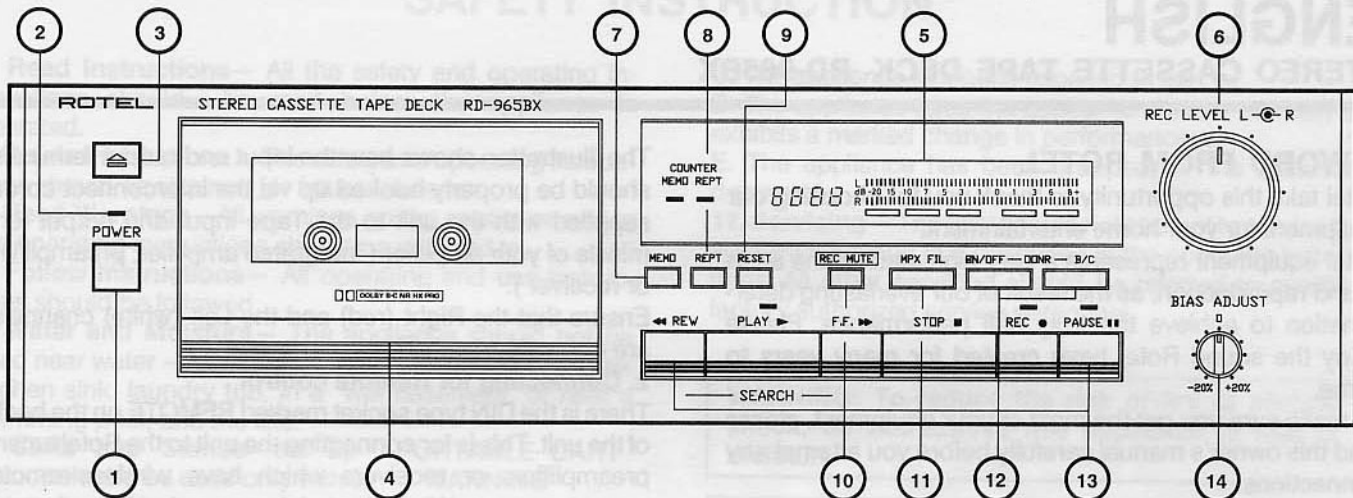
2. To prevent possible trouble with the transport mechanism, the use of C-120 or longer hour tapes is not recommended.

3. Handle tapes with care. Keep them away from heat, dust, or magnetic field (TV set etc.).

4. A loosened tape may cause trouble in playback or recording. Check the tape before loading it into the deck. If it is slack, insert a pencil or the into either of cassette's hubs, and rotate it carefully until the slack is taken up.



5. Each tape has safety tabs on its back edge prevent accidental recording. Each tab is provided for one side (2 tracks) of the tape. Once the tab is removed, recording cannot be done on the side the tab has been taken out.



The tab can be removed with a screwdriver, etc. If you wish, however, to record on the side with no tab, place a piece of adhesive tape, etc. over the opening where the tab has been.

SWITCHES AND CONTROLS

(1) Power Button

Press this button to turn on and off the unit.

(2) Power Indicator

Glowes when power is turned on with the POWER button.

(3) Eject Button

Press this button to open the cassette door when loading or unloading the cassette tape.

(4) Cassette Door

Cassette tape is loaded into the cassette holder. Press the EJECT button to open the door. To close the cassette door, push it gently backward.

(5) Multi-function display

1). Tape Counter— The 4 FL digit tape counter indicates the amount of tape travel.

2). Peak Level Indicator— Two bank FL displaya show the recording or playback level for both left and right channels.

3). Tape Selection Indicators— When a tape is inserted, an indicators will light up automatically to indicate the type of tape used. NORMAL for normal tape; SPECIAL for Chrome tape; METAL for metal tape.

4). Dolby NR B/C Indicator— Either of these indicators will light up when Dolby NR switch is activated ON and in accordance with whether Dolby type switch is set at Dolby B or Dolby C.

(6) Recording Level Control

Used to adjust the recording level of incoming signals from line source. This a dual concentric knob which permits either sepatate or combined adjustment of both channels.

(7) Counter Memory

Depress it and the unit memorizes "0000" position on the tape counter, in this state, if you press the REW button after playback of the specific section is finished the tape will rewind to the "0000" position on the counter.

The LED on display window light up when Memory button activated.

(8) Repeat

Depress this button to repeat playback of the selected tape automatically. Please ensure to activate the button before pushing the PLAY button. When used with the MEMORY button only "0000" position to tape end will be repeated. The LED on display window light up when REPEAT button activated.

(9) Counter Reset

Depress the button to reset the tape counter to zero. The display will indicate "0000" for the numerical count.

(10) REC MUTE Button

When this button is pressed during recording, no signal is recorded while tape travel continues, creating a blank section on your tape. Use this button to avoid recording unnecessary parts of the source, or to insert no-signal sections when dubbing or editing.

(11) MPX Filter Button

Depress this button when recording stereo FM broadcasts. FM stereo broadcasting system uses a 19 kHz pilot signal which may adversely affect the sound quality in some case. When the MPX filter button is depressed to ON, the MPX filter is activated to eliminate the 19 kHz pilot signal, and clean stereo FM recording is achieved.

(12) Dolby NR Buttons

Depress the Dolby NR button when you wish to record or playback through the built-in Dolby noise reduction circuit. Next to this button is a switch for selecting Dolby B type or C type noise reduction. Select B type by setting button in released position, and C type by setting button in depressed position.

NOTE: DOLBY HX PRO circuit is always effected during recording.

(13) Cassette Controls

REW Button ◀

For rapid tape rewind, depress this button.

PLAY Button ▶

Depress this button to start the cassette for playback of recorded tape. The LED above the button glows when PLAY activated.

SEARCH

Press the Fast Forward button after the PLAY button activated, the beginning of the program next to the present program being played will be sought forward automatically. In reverse, press the REW button, then the beginning

of the present program being played will be seeked backward automatically. The LED indicator above PAUSE button blinks quickly when SEARCH activates.

F.F Button ▶▶

Depress this button to advance the tape rapidly forward.

STOP Button ■

Depress this button to stop the tape in any mode : record, playback, rewind or fast-forward. This button will release any transport button current engaged.

REC Button ●

To record, depress this and PLAY button. The deck is now in the recording mode, and the tape should be winding. The LED provided on the button glows during recording.

PAUSE Button II

Press this button to stop the tape temporarily during recording or playback without disengaging the mode currently employed, and LED indicator above the button blinks. In this state, pressing the PLAY button restarts the tape in the interrupted mode.

(14) Bias Adjust Control

Normally set the control at the "0" position. However, in case of some tapes a fine-tuning may be required for optimum bias setting. Turning the control to "-" direction will increase high frequency level, and turning to "+" direction will decrease high frequency level.

WORDS ON OPERATION

Precaution

1. Before commencing operation, check to see if all connections are properly made.
2. When recording, be sure the safety tabs on the cassette tape edges are not removed.
3. When recording from line sources, choose the desired program (Tuner, turntable, CD etc..) on your integrated amplifier, preamplifier, or receivers.

Recording

1. Depress the DOLBY NR button ON, and then set the DOLBY B/C button to the desired position when record through DOLBY NR circuit.
2. Depress the deck POWER button ON.
3. Depress PAUSE button, then simultaneously depress REC button and the unit is put into PAUSE state.
4. Adjusts recording level controls, if necessary, depress the PLAY button to put the unit into recording mode and start the tape movement.
5. Carefully watch the counter indication during recording as well. PAUSE button may be used to temporarily halt recording.
6. Press STOP button when recording is finished.

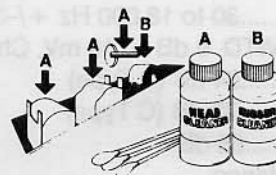
Playback

1. Depress the DOLBY NR button ON, when playback a tape recorded with DOLBY NR, and then set the DOLBY B/C button according to whether DOLBY B or DOLBY C is used.
2. Turn on the power switch on your amplifier and keeping its volume control to minimum.
3. Depress the deck POWER button ON.
4. Press PLAY button and playback will begin. Raise the volume to the desired level.

5. To momentarily halt playback, press the PAUSE button. When wish to end playback, press the STOP button.

HEAD CLEANING

The most frequent cause of failure to record in one or both channels, or of weak, distorted sound, is dirty tape heads and capstan. So, be sure to clean the heads, capstan, pinch roller and tape guides as often as possible using a "Q" tip dipped in ordinary rubbing alcohol or commercial liquid tape head cleaner. Thoroughly wipe the surface of the heads, capstan, roller and tape guide.



HEAD DEMAGNETIZING

The tape heads, capstan and tape guides gradually become magnetized with use, which will eventually affect the sound quality of your tapes. Demagnetizing should follow cleaning, but need not take place as often as cleaning, once after every 20 to 30 hours of use should suffice.

A demagnetizer may be purchased at a moderate cost from any dealer carrying tape recording accessories. Follow the instruction supplied with the demagnetizer.

Caution: Be sure to turn off the unit before you attempt demagnetizing.

SPECIFICATIONS RD-965BX

Heads: Rec/ Play.....	Permalloy core
Erase.....	Ferrite core
Track.....	4-track / 2-channel
Tape Speed.....	4.8 cm / sec
Motor.....	Electric Governer
Wow and Flutter.....	0.2 % (DIN) 0.06 % (WRMS)
Distortion (REC/PB, 400 Hz).....	2 % (METAL)
Frequency Response (-20 dB):	
Normal, LH.....	30 to 16,000 Hz +/-3 dB
Special.....	30 to 17,000 Hz +/-3 dB
Metal.....	30 to 18,000 Hz +/-3 dB
Signal-to-Noise Ratio (WTD. 0 dB = 710 mV, Chromium):	
Dolby NR in.....	64 dB (B Type)
Dolby NR out.....	73 dB (C Type)
Dolby NR out.....	55 dB
Input Sensitivity/ Impedance:	
LINE.....	70 mV/ 33 kohms
Output Level/ Impedance:	
LINE.....	710 mV/ 1.5 kohms
Fast Wind Time (C-60).....	80 seconds
Tape Selector	BIAS EQUALIZER
Normal, LH.....	100 % 120 uS
Special.....	150 % 70 uS
Metal.....	220 % 70 uS

MISCELLANEOUS

Power Requirement.....	120 V/ 60 Hz, 220 V/ 50 Hz,
	240 V/ 50 Hz (depending on
	destinations)
Power Consumption.....	30 watts
Dimension (overall).....	440 (W) x 121 (H) x 329 (D) mm
	17-3/8" x 4-13/16" x 13"
Weight (net).....	6.0 Kg / 13.2 lbs

- Specifications and design subject to possible modification without notice.
- Dolby noise reduction and HX PRO headroom extension manufactured under license from Dolby Laboratories Licensing Corporation.
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