

owner's manual



Quality. Uncompromised.

ROTEL®

RD-700

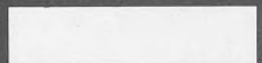
STEREO CASSETTE DECK

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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.



ENGLISH

STEREO CASSETTE DECK RD-700

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.

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.

POWER SUPPLY CONNECTION

For power the unit requires the normal house electrical current (AC). You may simply plug the unit into a wall outlet, or into your amplifier's switched or unswitched AC outlet. If it is plugged into a switched outlet, by leaving the power switch of the unit on, you will be able to maintain switching control for the RD-700 with your amplifier. If it is connected to an unswitched outlet, like connecting to a wall outlet, you must use the RD-700's own power switch for switching control.

CAUTION: Do not apply power without first making sure the proper connections are completed. If you live in U.K. and your unit comes with 2-core cord without a plug, be sure to read the exclusive caution for U.K.

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

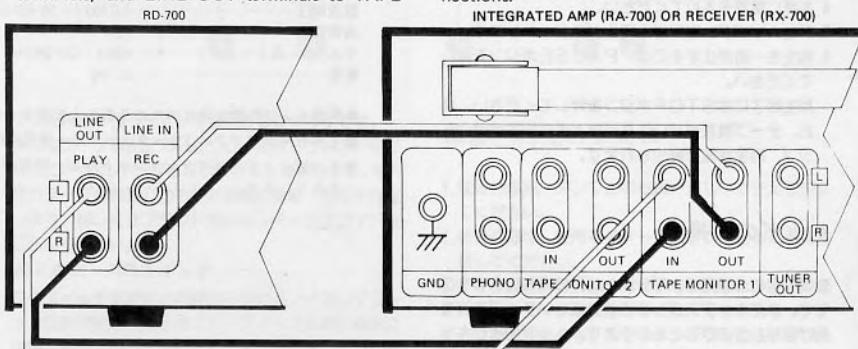
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLUE or BLACK. The wire which is coloured

BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

CONNECTION TO INTEGRATED AMPLIFIER

Using the two accompanying pairs of RCA pin cords, connect LINE IN and OUT terminals on the back of deck with TAPE MONITOR terminals of the amplifier. Make sure LINE IN terminals are connected to TAPE MONITOR OUT terminals, and LINE OUT terminals to TAPE

MONITOR IN terminals. Be sure to match L (left) and R (right) terminals of the components. To make correct connections, use cords with white plugs for left channel connections, and cords with red plugs for right channel connections.



AUTOMATIC SHUTOFF SYSTEM

To protect the RD-700's motor and drive mechanism against unnecessary wear, an automatic shutoff device has been built into the machine. When the supply hub stops for any reason the motor and drive mechanism will automatically shut off after a short period of time. The machine is also automatically shutoff at the end of tape (PLAY, REC/PLAY, FAST FORWARD and REWIND modes), disengaging all locked buttons.

Note: Since this device will not affect the electronic circuits of the machine it will still be necessary to turn off the entire unit by pushing the power switch.

The tabs are provided for both sides of cassette tape. You cannot record on the side whose tab has been removed. The tab can be removed with a screwdriver, etc. If you wish to record on the side with no tab, place a piece of adhesive tape, etc. over the opening where the tab has been, then you can record.

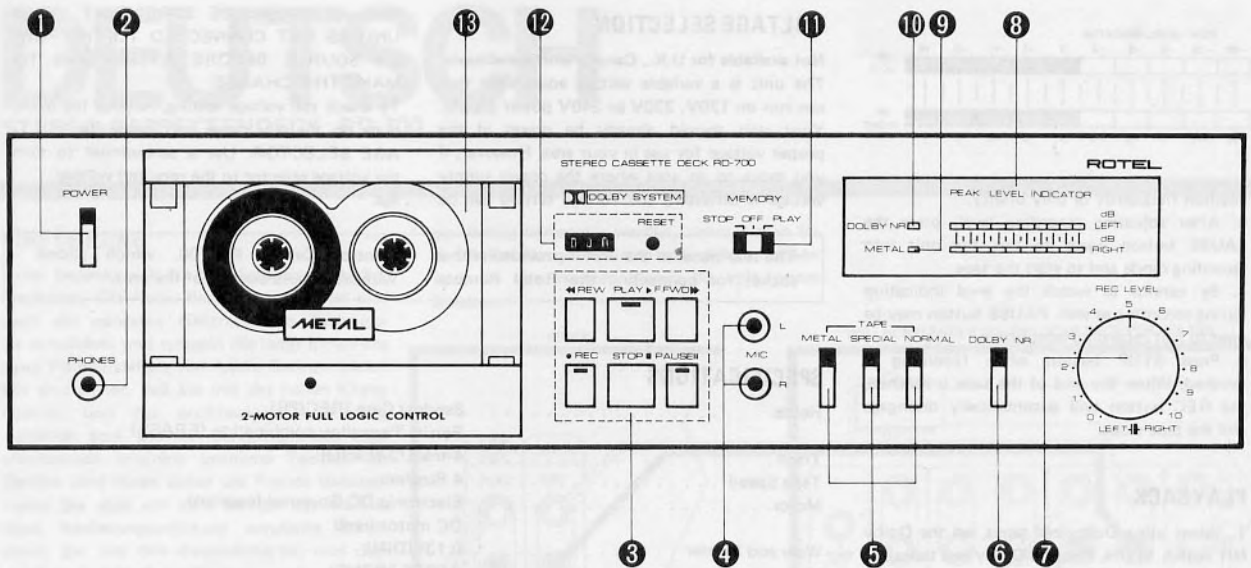


CASSETTE TAPES

- To prevent possible trouble with the transport mechanism, use of large size cassette tapes, such as C-120, is not recommended.
- Handle cassette tapes with care. Keep them away from heat, circulating dust, or a magnetic field (e.g. on the TV set).
- Each cassette tape has safety tabs on its back edge to prevent accidental re-recording.

- 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 like into either of cassette's hubs, and rotate it carefully until the slack is taken up.





SWITCHES AND CONTROLS

(1) Power Button

This button turns on the unit. The LED indicator above it will glow when the power is on. Press the button a second time to turn off the power.

(2) Headphone Jack

For headphone listening from the deck, the headset is plugged into this jack. Before beginning, make sure the volume control of your amplifier is set to minimum.

(3) 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 indicator provided on the button will glow.

F.FWD Button

Depress this button to advance the tape rapidly forward.

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 indicator on the button glows during recording.

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 currently engaged.

PAUSE Button

Depress this button to stop the tape temporarily during recording or playback. When this button is depressed, the LED indicator provided on the button glows. Pressing the button a second time will restart the tape in the interrupted mode.

(4) Microphone Jacks

When making live recording with stereo microphones, insert the microphone plugs into these jacks. Make sure the right-hand microphone is connected to the right channel jack, and the left-hand microphone to the left channel jack. Be sure to unplug the microphones when re-

ording from other sources.

(5) Tape Selector

Used to select the appropriate recording bias and playback equalization, according to type of cassette tape used. Use the METAL button for metal tape, the SPECIAL button for chromium dioxide tape, and the NORMAL button for normal tape. See TAPE SELECTOR SETTING GUIDE for details of various brands of cassette tapes and their proper setting positions.

(6) Dolby NR Switch

Depress this button to switch in the built-in Dolby NR circuit provided for high-frequency range noise reduction when you wish to record or play back through Dolby NR circuit.

(7) Recording Level Control

Used to control the recording level of incoming signals, such as from a turntable, tuner, or microphones. This is a dual concentric knob which permits either separate or combined adjustment of both channels.

(8) Peak Level Indicator

Gives instantaneous display of recording or playback level for both left and right channels. Each bank of ten LEDs directly shows levels from -20dB to $+8\text{dB}$.

(9) Metal Tape Indicator

Glow when METAL button of the Tape Selector is depressed.

(10) Dolby NR Indicator

Glow when Dolby NR switch is activated, indicating the unit is in Dolby NR recording or playback mode.

(11) Memory Switch

This switch is used to stop the tape or start it again at any preset point in the rewind mode. When the switch is activated, the unit memorizes "000" position on the tape counter which you have preset.

In STOP position, depressing REW button will rewind the tape until the tape counter reaches "999", and then the tape stops. In PLAY position, the rewind stops at "999", and then playback will begin from there.

In normal circumstances, leave the switch in OFF position.

(12) Tape Counter and Reset Button

The three-digit tape counter indicates the amount of tape travel. Push the reset button to set the counter to "000". This counter is convenient in finding the beginning of a specific section of the tape or checking the amount of the remaining tape on the cassette.

(13) Tape Holder

Cassette tape is loaded into this holder.

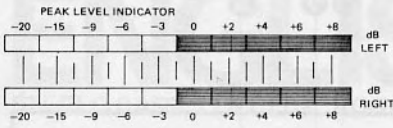
BEFORE RECORDING OR PLAYBACK

1. Be certain that power connection and connection with amplifier are properly made.
2. When recording, be sure the safety tabs on the cassette tape are not removed.
3. Be sure to unplug the microphones from the deck when recording from other sources.
4. To load the cassette tape, hold it by the sides and fit the top under the upper projecting section of the cassette holder. Then gently push in the bottom portion of the cassette tape so that the two catches on the lower holder secure the cassette snugly. To unload the cassette, hold it by the sides, and first detach it from the lower holder by pulling gently. Then detach from the upper holder.
5. Be sure to attach the protection cover to the tape holder when the unit is not in use.

RECORDING

- When recording with microphones, the microphone plugs must be inserted properly into the left and right microphone jacks.
- When recording from line sources, choose the desired program (tuner, turntable, etc.) on your amplifier.

1. When you wish to record using Dolby NR circuit, set the Dolby NR switch to ON position.
2. Set the Tape Selector according to type of tape used.
3. Turn on the deck Power switch.
4. Press PAUSE button. Then depress REC and PLAY buttons simultaneously.
5. Adjust the recording level for left and right channels with Recording Level control so that the level indicator reading does not exceed 0dB



position frequently or only briefly.

6. After adjusting recording level, press the PAUSE button again to put the unit into recording mode and to start the tape.

7. Be careful to watch the level indication during recording as well. PAUSE button may be used to halt recording temporarily.

8. Press STOP button when recording is finished. When the end of the tape is reached, the REC button will automatically disengage and the tape stops.

PLAYBACK

1. When using Dolbyized tapes, set the Dolby NR switch to ON. For non-Dolbyized tapes, set the switch to OFF.

2. Set the Tape Selector to match the type of tape used.

3. Turn on the power switch on your amplifier, keeping its volume control set to minimum. When using headphones connected to the tape deck, the amplifier is not necessary.

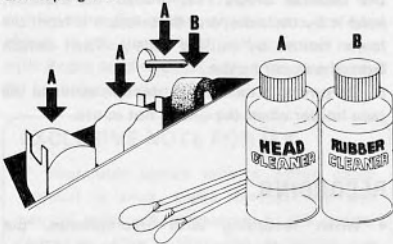
4. Turn on the Power switch on the deck.

5. Depress PLAY button and playback will begin.

6. To momentarily halt playback, depress the PAUSE button. When you wish to end playback, press the STOP button. When the tape comes to an end, it stops automatically and playback mode is disengaged.

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: Push the power switch off before you attempt demagnetizing.

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, the voltage setting can be

manually changed. BE SURE THAT YOUR UNIT IS NOT CONNECTED TO THE POWER SOURCE BEFORE ATTEMPTING TO MAKE THIS CHANGE.

To check the voltage setting, remove the name plate on the rear panel and locate the VOLTAGE SELECTOR. Use a screwdriver to turn the voltage selector to the required voltage. age.

The rear panel of the unit is provided with a socket for connecting the Rotel Remote

Control Center RR-700, which allows wireless-remote-control of the unit.

SPECIFICATIONS

Heads . . . . .	.Sendust Core (REC/PB)	
	Ferrite/Permalloy combination (ERASE)	
Track . . . . .	.4-track/2-channel	
Tape Speed . . . . .	.4.8cm/sec.	
Motor . . . . .	.Electronic DC Governor (capstan)	
	DC motor (reel)	
Wow and Flutter . . . . .	.0.13%(DIN)	
	0.037% (WRMS)	
Distortion (REC/PB, 400Hz) . . . . .	.1.2%	
Frequency Response (-20dB) . . . . .	.Normal, LH	30 to 15,000Hz±3dB
	Chromium	30 to 16,000Hz±3dB
	Metal	30 to 17,000Hz±3dB
Signal-to-Noise Ratio (WTD, 0dB=580mV, Chromium) . . . . .	.Dolby NR in:	70dB
	Dolby-NR out:	63dB
Input Sensitivity/Impedance. . . . .	.MIC	0.4mV/6.5 kohms
	LINE	40mV/17 kohms
Output Level/Impedance. . . . .	.LINE	580mV/1.5 kohms
Fast Wind Time (C-60) . . . . .	.80 seconds	
Tape Selector . . . . .	.BIAS	EQUALIZER
	Normal, LH	120µs
	Chromium	70µs
	Metal	70µs

MISCELLANEOUS

Power Requirement . . . . .	.50Hz, 240V/50Hz or 120, 220, 240V/50-60Hz (depending on destinations)
Power Consumption . . . . .	.16 watts (UL)
Dimensions (Overall) . . . . .	.430(W) x 113(H) x 293(D)mm/ 16-15/16" x 4-7/8" x 11-1/2"
Weight (Net) . . . . .	.5.7kg/12.5 lbs

- Specifications and design subject to possible modification without notice.
- Dolby, Dolbyized and the double-D symbol are trade marks of Dolby Laboratories. Noise reduction system manufactured under license from Dolby Laboratories.