

owner's manual



Quality. Uncompromised.

ROTEL[®] RD-560

STEREO
CASSETTE TAPE 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 TAPE DECK RD-560

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-560 with your amplifier. If it is connected to an unswitched outlet, like connecting to a wall outlet, you must use the RD-560'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.

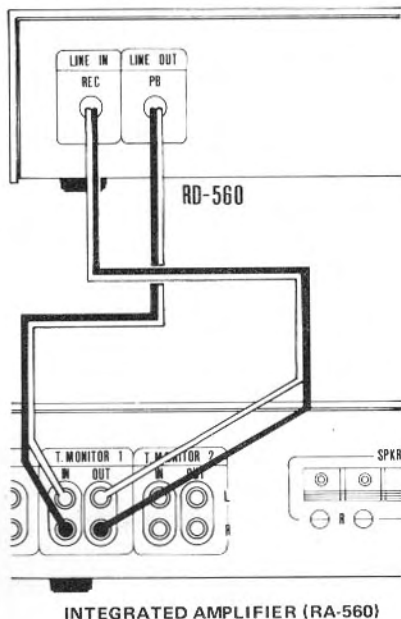
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

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

Two pairs of RCA cords for LINE IN/OUT extend out from the rear panel of the cassette deck. The cord from the LINE IN terminals of the deck should be plugged into the TAPE MONITOR OUT terminal of the amplifier, and the cord from LINE OUT terminal to the TAPE MONITOR IN terminal. RCA cords with white plugs are for left channel (L) connection, and cords with red plugs are for right channel (R).



AUTOMATIC SHUTOFF SYSTEM

To protect the RD-560 motor and transport mechanism against unnecessary wear, an automatic shutoff device has been built into the unit. When either end of tape is reached in play, record, fast-forward, or rewind mode, the motor and mechanism will automatically shut off, disengaging the present mode.

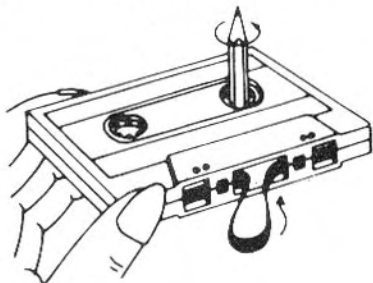
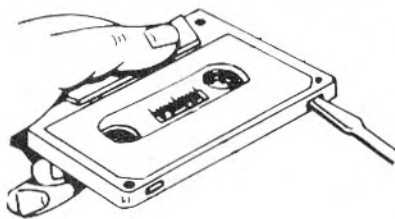
Note: Since this device will not affect the electronic circuits of the machine it will still be necessary to turn off the entire unit by pushing the power switch.

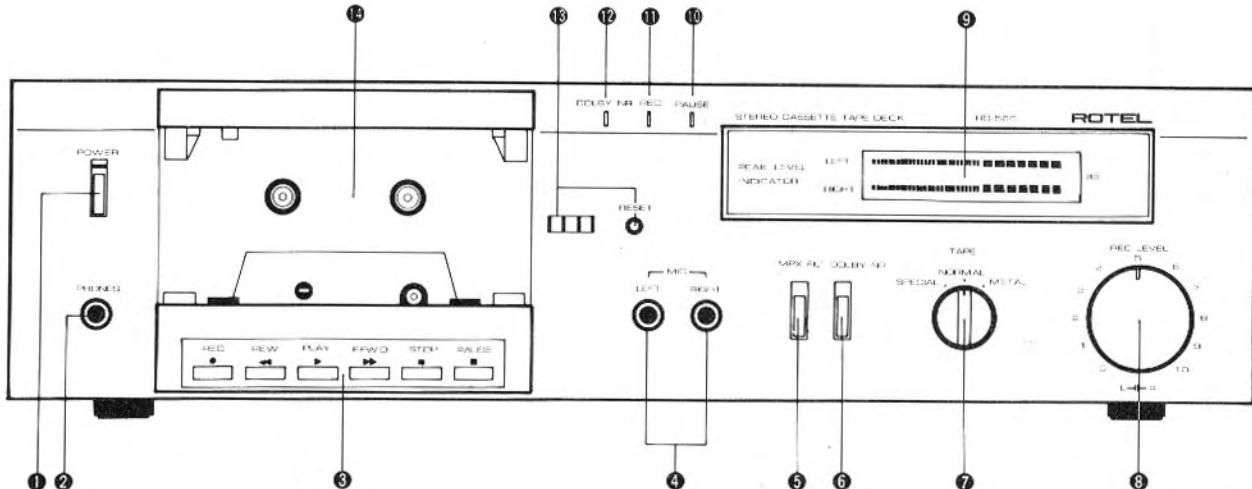
CASSETTE TAPES

- 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. 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.

- A loosened tape may cause trouble in play-back 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. When it is turned on, the LED indicator above the button glows. 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

REC Button

To record, press this and PLAY button. The deck is now in the recording mode, and the tape should be winding. The REC indicator glows during recording.

REW Button

For rapid tape rewind, press this button.

PLAY Button

Press this button to start the cassette for playback of recorded tape.

F.FWD Button

Press this button to advance the tape rapidly forward.

STOP Button

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

PAUSE Button

Press this button to stop the tape temporarily during recording or playback. When this button is pressed, the PAUSE indicator 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 recording from other sources.

(5) MPX Filter Button

Depress this button when recording stereo FM broadcasts. When this button is depressed to ON, the multiplex filter is activated to help

eliminate the pilot signal, and clean, interference-free stereo FM recording is achieved. Leave the button released when recording from other sources.

(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) Tape Selector

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

(8) 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.

(9) Peak Level Indicators

Gives instantaneous display of recording or playback level for both left and right channels. Each fluorescent indicator shows levels from -20dB to +8dB.

(10) PAUSE Indicator

Glow when the PAUSE function is being used.

(11) REC Indicator

Glow when the REC button is activated.

(12) Dolby NR Indicator

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

(13) 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.

(14) Tape Holder

Cassette tape is loaded onto 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, depress the Dolby NR switch. Also depress the MPX Filter switch when recording FM broadcast.

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

3. Turn on the deck Power switch.

4. Press PAUSE button, then simultaneously press REC and PLAY buttons.

5. Adjust the recording level for left and right channels with Recording Level control so that the level indicator readings do not exceed 0dB position frequently, and when they do, only very briefly.



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

7. Carefully watch the meter indication during recording as well. PAUSE button may be used to temporarily halt recording.

8. Press STOP button when recording is

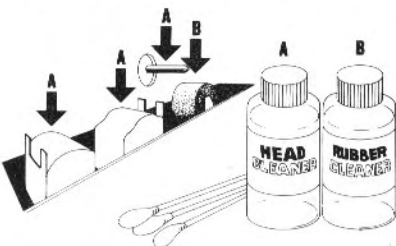
finished. When the end of the tape is reached, the recording mode will automatically disengage and tape stops.

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. Press PLAY button and playback will begin.
6. To momentarily halt playback, press 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: Be sure to turn off the unit 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.

SPECIFICATIONS

Heads: Rec/Play.	Sendust core	
Erase.	Ferrite core	
Track.	4-track/2-channel	
Tape Speed	4.8cm/sec.	
Motor.	Electronic DC Governor	
Wow and Flutter . . . . .	.010% (DIN)	
	0.07% (WRMS)	
Distortion (REC/PB, 400Hz) . . . . .	.06%	
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. OdB=580mV, Chromium)	Dolby NR in:	64dB
	Dolby NR out:	55dB
Input Sensitivity/Impedance.	MIC	0.3mV/10 kohms
	LINE	30mV/47 kohms
Fast Wind Time (C-60) . . . . .	.80 seconds	
Tape Selector	BIAS	EQUALIZER
Normal, LH . . . . .	.100%	120µs
Chromium . . . . .	.150%	70µs
Metal . . . . .	.200%	70µs

MISCELLANEOUS

Power Requirement.	120V/60Hz, 220V/50Hz, 240V/50Hz, 120, 220, 240V/50-60Hz
Power Consumption . . . . .	.15 watts
Dimensions (Overall) . . . . .	.430(W) x 115(H) x 245(D)mm/ 16-15/16" x 4-17/32" x 10-7/16"
Weight (net) . . . . .	.50kg/11.0 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.

TAPE SELECTOR SETTING GUIDE

TDK	OD, AD	NORMAL
FUJI FILM	RANGE 6	NORMAL
SONY	AHF, BHF	NORMAL
MAXELL	UD, XL-I	NORMAL
SCOTCH	MASTER 120	NORMAL
TDK	SA	SPECIAL
FUJI FILM	RANGE 4X	SPECIAL
SONY	JHF	SPECIAL
MAXELL	XL II	SPECIAL
SCOTCH	MASTER II	SPECIAL
BASF	SCR	SPECIAL
TDK	MA	METAL
FUJI FILM	SUPER RANGE	METAL
SONY	METALLIC	METAL
MAXELL	MX	METAL
SCOTCH	METAFINE	METAL