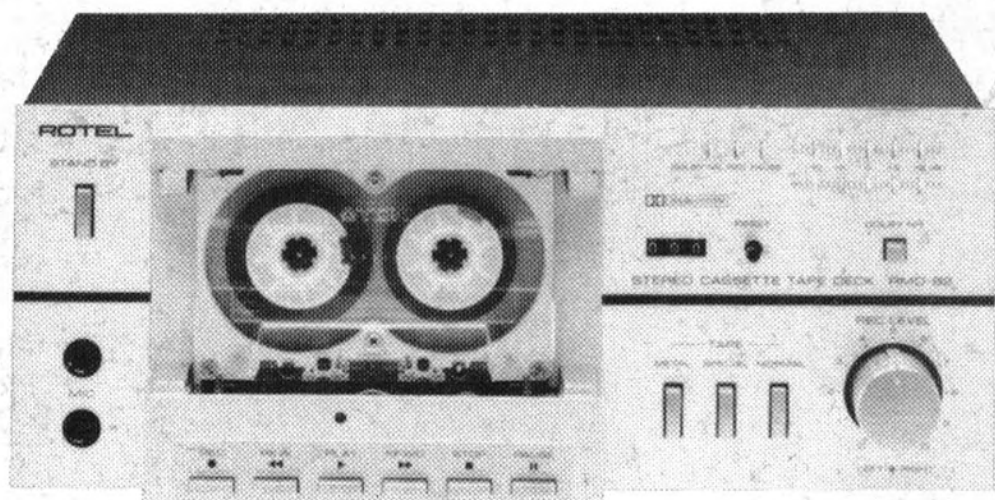


# owner's manual



Quality. Uncompromised.

# ROTEL<sup>®</sup> RMD-82

STEREO CASSETTE TAPE DECK RMD-82

ENGLISH .....	1	ITALIANO .....	16
DEUTSCH .....	4	SVENSKA .....	19
FRANÇAIS .....	7	SUOMI .....	22
NEDERLANDS .....	10	DANSK .....	25
ESPAÑOL .....	13	NORSK .....	28

## 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 RMD-82

### 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

The RMD-82 is designed to receive power only through the special power supply socket on the rear panel of the ROTEL receiver RMX-82. Plug the power cord of the RMD-82 into the power supply socket of the RMX-82. Never attempt to connect the RMD-82 power cord to a wall outlet or convenience outlet in other audio components.

### CONNECTION TO RECEIVER RMX-82

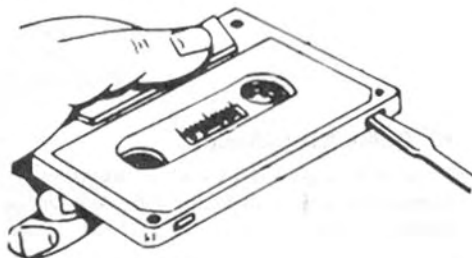
Two pairs of RCA cords for LINE IN/OUT extend out from the rear panel of the cassette deck. The cord from the LINE IN terminals of the deck should be plugged into the TAPE MONITOR IN terminal of the RMX-82, and the cord from the TAPE MONITOR OUT terminal of the RMX-82, and the cord from the LINE OUT terminal of the RMX-82, and the cord from 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).

### CASSETTE TAPES

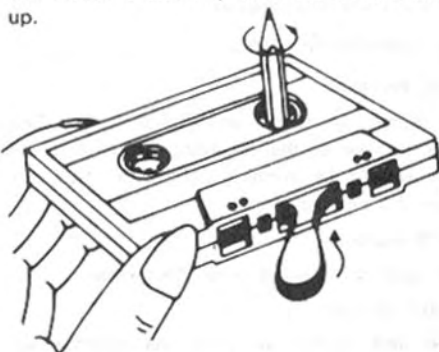
• To prevent possible trouble with the transport mechanism, use of large size cassette tapes, such as C-120, is not recommended.

• 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.



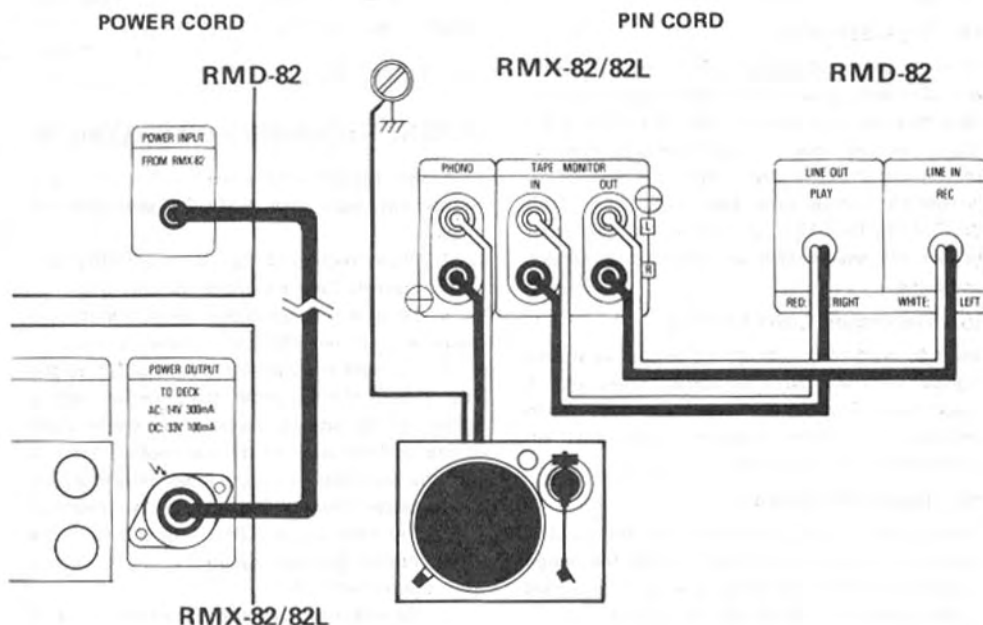
• A loosened tape may cause trouble in playback or recording. Check the tape before loading it into the deck. If it is slack, insert a pencil or the like into either of cassette's hubs, and rotate it carefully until the slack is taken up.



### AUTOMATIC SHUTOFF SYSTEM

To protect the RMD-82 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.

### CONNECTION



### CAUTION

As long as the power cord is plugged into the RMX-82, power is supplied to the unit regardless of the setting of the Standby Button.

## SWITCHES AND CONTROLS

### (1) STAND BY Button

Depress this button to turn on the unit. The unit is powered through the special cord running from the receiver unit RMX-82. To turn off the unit, press the button a second time.

### (2) 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.

### (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) 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 particle tape, the SPECIAL button for chromium dioxide tape, and the NORMAL button for normal tape. See TAPE SELECTOR SETTING GUIDE for details of different brands of cassette tapes and their proper setting positions.

### (5) 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.

### (6) Dolby NR Switch

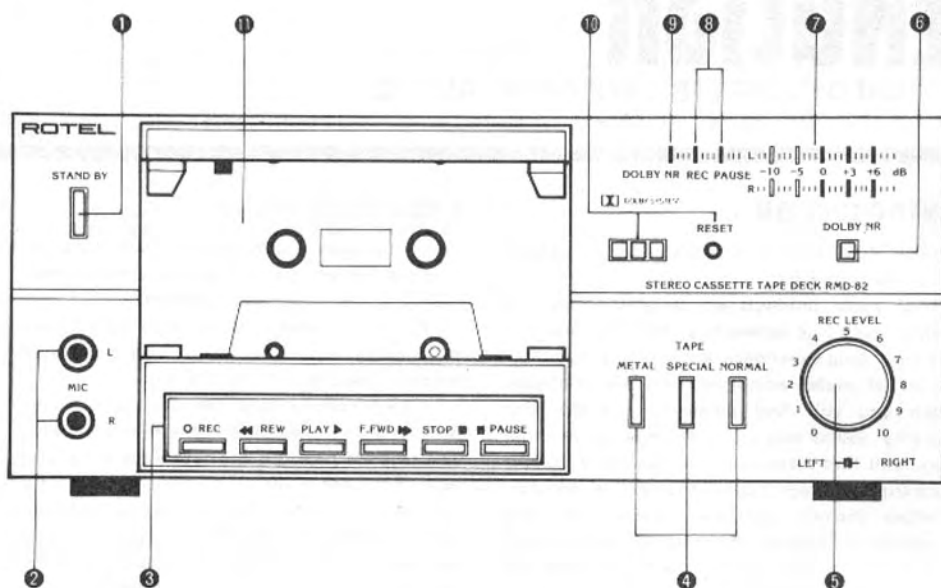
Depress this button to switch in the built-in Dolby NR circuit provided for high-frequency range noise reduction when you wish to record or play back through Dolby NR circuit.

### (7) Peak Level Indicator

Gives instantaneous display of recording or playback level for both left and right channels. Each bank of five LEDs directly shows levels from -10dB to +6dB.

### (8) Function Indicators

The LED indicator labeled REC glows during recording. The indicator labeled PAUSE glows when the unit is in pause mode.



### (9) Dolby NR Indicator

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

### (10) 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.

### (11) Tape Holder

Cassette tape is loaded onto this holder.

## BEFORE RECORDING OR PLAYBACK

1. Be certain that power connection and connection with the RMX-82 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 you record from line source, be sure that the microphone plugs are disconnected from the microphone jacks of RMD-82.

Receive radio broadcast or play record for recording.

1. When you wish to record using Dolby NR circuit, depress the Dolby NR switch.

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

3. Turn on the STAND BY switch on RMD-82.

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 STAND BY switch on RMD-82. Keep the volume control on RMX-82 set to minimum.

4. Press PLAY button and playback will begin.

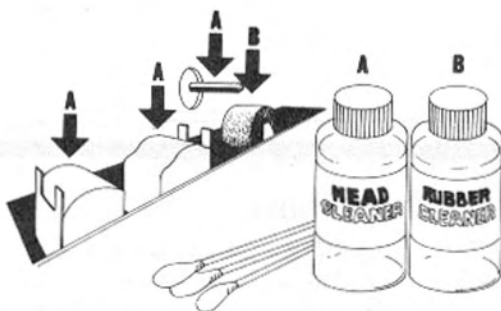
5. To momentarily halt playback, press the

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.

## SPECIFICATIONS

Heads: Rec/Play. . . . .	High B permalloy laminated type
Erase. . . . .	Ferrite core
Track. . . . .	4-track/2-channel
Tape Speed . . . . .	4.8cm/sec.
Motor. . . . .	Electronic DC Governor
Wow and Flutter . . . . .	0.15% (DIN) 0.05% (WRMS)
Distortion (REC/PB, 400Hz) . . .	1.5% (METAL)
Frequency Response (-20dB) . . .	Normal, LH 30 to 14,000Hz±3dB Special 30 to 15,000Hz±3dB Metal 30 to 17,000Hz±3dB
Signal-to-Noise Ratio (WTD. 0dB=580mV, Chromium) . . .	Dolby NR in: 64dB Dolby NR out: 55dB
Input Sensitivity/Impedance. . .	MIC 0.3mV/10 kohms LINE 30mV/47 kohms
Output Level/Impedance:	
LINE . . . . .	580mV/1 kohm
Fast Wind Time (C-60) . . . . .	90 seconds
Tape Selector	BIAS EQUALIZER
Normal, LH . . . . .	100% 120µs
Special . . . . .	150% 70µs
Metal . . . . .	200% 70µs

## MISCELLANEOUS

Power Requirement. . . . .	Power supplied from the receiver RMX-82
Dimensions (Overall) . . . . .	279 (W) x 120 (H) x 206 (D) mm 11" x 4-23/32" x 8-1/8"
Weight (net) . . . . .	3.2kg/7.04 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	ER, DR	NORMAL
SONY	AHF, BHF	NORMAL
MAXELL	UD, XL-I	NORMAL
SCOTCH	MASTER I	NORMAL
BASF	Super LH-I, LH	NORMAL

TDK	SA, SA-X	SPECIAL
FUJI FILM	UR	SPECIAL
SONY	JHF	SPECIAL
MAXELL	XL-II, X II-S	SPECIAL
SCOTCH	MASTER II	SPECIAL
BASF	SCR	SPECIAL

TDK	MA	METAL
FUJI FILM	SUPER RANGE	METAL
SONY	METALLIC	METAL
MAXELL	NEW-MX	METAL
SCOTCH	METAFINE	METAL