Quality. Uncompromised. £



METAL CAPABILITY STEREO CASSETTE DECK

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 unit's 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.

POWER SUPPLY CONNEC-

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

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

CONNECTION TO RE-CEIVER OR AMPLIFIER

Connect the unit's rear panel terminals to the TAPE MONITOR terminals of your amplifier, using the RCA cords.

The unit's LINE IN terminals should be connected to the TAPE MONITOR OUT terminals of the amplifier, and the LINE OUT terminals to the TAPE MONITOR IN terminals of the amplifier. Be certain to properly match right and left terminals between components.

MICROPHONE AND HEAD-PHONE CONNECTION

Microphone and headphones may be connected to the unit using the respective jacks on the front panel. When using stereo microphones, be sure connections are made properly to the left and right jacks.

Note: Microphones must not be connected except when carrying out microphone recording.

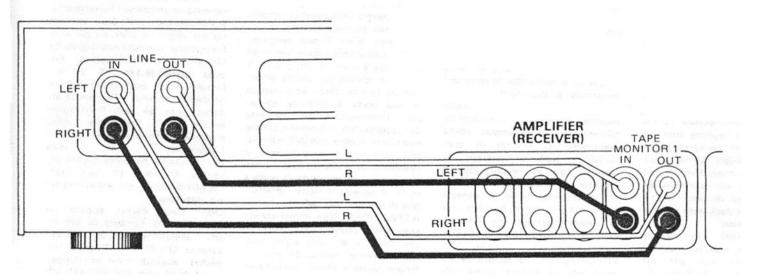
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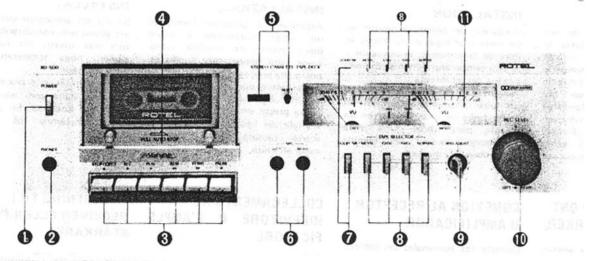
If your unit comes with a 2-core cable without a plug, make certain live and neutral leads are connected to the proper terminals. Check that the terminals are screwed down firmly and no loose strands of wire are present.

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

BLUE: BROWN: NEUTRAL 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 leter L or coloured BROWN or RED.





SWITCH AND CONTROLS

(1) Power Button

Depress this button to turn on the tape deck. When the tape deck is turned on, the cassette compartment will be illuminated and the meter scale will light up. Press the button again to turn off the tape deck.

(2) Headphones Jack

To enjoy headphone listening from the deck, plug your headset into this jack. Before commencing play, make sure that the volume control on the amplifier is set to the minimum position.

(3) Cassette Mechanism Controls

STOP/EJECT Button

This button functions in two ways: Press lightly on it to stop the tape. Press all the way down to open the cassette door for removal or insertion of cassette tape.

REC Button

Used to put the deck in the recording mode. To record, simultaneously depress this button and the PLAY button. The REC indicator LED will light up to tell you that recording is taking place.

PLAY Button

Depress this button to play back prerecorded tape. Also, depress it simultaneously with the REC button when going into the recording mode.

REW Button

Depress this button to rapidly rewind the tape.

F.FWD Button

Depress this button to rapidly advance the tape.

PAUSE Button

Depress this button to temporarily stop the tape when in the recording

or playback mode. This button will not disengage the REC or PLAY button. The tape can be restarted by simply pressing the button again.

Notes:

- This unit incorporates a full autostop function. The transport mechanism will stop automatically and disengage all locked buttons when either end of the tape is reached during recording, playback, fast-forward or rewind. (This function will not cut off the power supply.)
- To stop recording, playback, or fast wind, press the STOP/EJECT button to the first stop. The tape will stop and the locked buttons will disengage automatically.
- The PAUSE button should be used only to temporarily stop the tape. Avoid remaining in the PAUSE mode for a prolonged time.
 Do not use the button as a substitute for the STOP button.

(4) Cassette Door

This door will open when the STOP/ EJECT button is pressed all the way down. To close it, push it lightly with fingers.

(5) 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. The beginning of a specific section of the tape can be easily found by logging the counter reading beforehand. This counter is also convenient for checking the amount of tape remaining on a cassette.

(6) Microphone Jacks

To make a live recording using stereo microphones, insert the microphone plugs into MIC jacks. Ensure that the right-hand microphone plug is inserted into the right channel jack, and vice versa. Be sure to disconnect the microphones when recording from other sources.

(7) Dolby NR Switch And Dolby Indicator

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 the Dolby circuit. The Dolby indicator will glow when the Dolby circuit is operating. Press the button again to switch it out of circuit. Any tape recorded through the Dolby circuit should also be played back through the Dolby circuit for optimum results.

(8) Tape Selector And Tape Indicator

Depress a button appropriate to the type of tape being used for optimum recording and playback performance. The associated LED will tell you which button has been selected. Use the METAL button for metal tape, the CrO2 button for chromium dioxide tape, the FeCr button for ferrichrome tape, and the NORMAL button for normal tape. Refer to the TAPE SELECTOR SETTING GUIDE for details of various brands of cassette tapes and their proper selector positions.

(9) Bias Fine-adjustment Control

This control allows you to obtain the optimum bias setting to match the property of tape being used. Turn the control to the "—" side when you feel that the high frequency range is inadequate, and turn to the "+" side when noise or distortion is high. Refer to the TAPE SELECTOR SETTING GUIDE for details.

(10) Recording Level Control

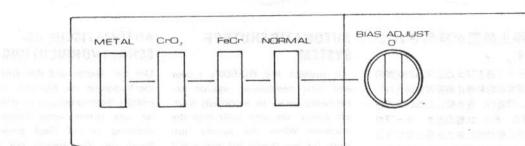
Used to control the recording level of incoming signals, such as from

a turntable, tuner, or microphones. This is a dual concentric type control which permits either separate or combined adjustment of both channels. Use the outer ring for the left channel, and the knob for the right channel.

(11) VU Meters And Peak Indicator

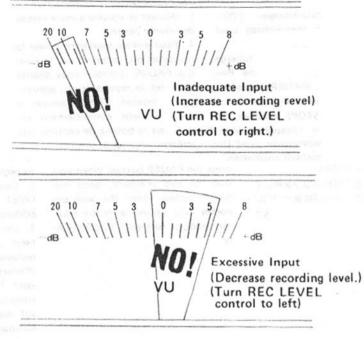
VU meters are provided for each channel separately. When the unit is in the playback mode, the meters give a visual indication of the input signal strength. In the recording mode, the VU meters monitor the level of the signal being recorded on the tape. They should be used in combination with the REC controls to maintain the proper recording level.

The peak indicator comes on to indicate excessive input during recording. If the indicator flashes frequently, there is an obvious overload condition and the recording level should be reduced. If the indicator lights up only from time to time, the recording level is appropriate.



TAPE SELECTOR SETTING GUIDE TAPE BIAS ADJUST LIST

Manufacturer	Brand	Туре	EQ	Tape Position	Bias Adjust Setting
AGFA	SFD	LN, LH	120 μs	Normal	-2
AGFA	SFD 1	LN, LH	120 µs	Normal	+1
	CARAT	FeCr	70 μs	FeCr	0
Andrew Control of the Control of the Control				-	
AMPEX	PLUS	LN, LH	120 μs	Normal	-2 -2
authorial sast into the knowledge	2020	LN, LH	120 μs	Normal	-z
Audio	Super	LN, LH	120 µs	Normal	-1
Magnetics	XHE	LN, LH	120 μs	Normal	0
BASF	LH samply training transports	LN, LH	120 µs	Normal	-2
	LH Super	LN, LH	120 µs	Normal	-1
	Super LH I	LN, LH	120 µs	Normal	+1
	FCR Ferrichrome	FeCr	70 µs	FeCr	+3
	SCR Superchrome	CrO ₂	70 µs	CrO ₂	+3
EMI	Super	LN, LH	120 μs	Normal	-1
EMI	High Fidelity	LN, LH	120 µs	Normal	0
Fuji Film	FX REPARE	LN, LH	120 µs	Normal	- コンションコーチョー
	FXI	LN, LH	120 µs	Normal	-1
	FX II	CrO ₂	70 µs	CrO ₂	20 THE SECTION AS TO SEC
	Range 2	LN, LH	120 µs	Normal	—1 2013/31-10 983
	Range 4	LN, LH	120 µs	Normal	toro do sostata
	Range 4X	CrO ₂	70 µs	CrO ₂	- Latter augus artis 1 44
	Super Range	Metal	70 μs	Metal	0 1000000000000000000000000000000000000
Maxell	UD	LN, LH	120 μs	Normal	+1
control of the second of the second	UDXL I	LN, LH	120 μs	Normal	0
	UDXL II	CrO,	70 µs	CrO,	0
	XL I	LN, LH	120 μs	Normal	0
		CrO ₂	70 µs	CrO ₂	-1
market at in transcription of	XL II MX46	Metal	70 µs	Metal	0
Philips	Ferrichrome	FeCr	70 μs	FeCr	0
Pyral	Maxima	LN, LH	120 μs	Normal	
seedingly are expensively as the constitution	Superferrite	LN, LH	120 μs	Normal	0
Scotch	High Energy	LN, LH	120 µs	Normal	-3 1157
	Master I	LN, LH	120 µs	Normal	+1
	Master II	CrO ₂	70 µs	CrO ₂	0
	Master III	FeCr	70 µs	FeCr	0
	Metafine	Metal	70 μs	Metal	-3
Sony	HF	LN, LH	120 µs	Normal	0
THE ADS THE THE PARTY AND THE PARTY AND	Chrome	CrO,	70 µs	CrO,	0
The contract of the contract o	Duad	FeCr	70 µs	FeCr	0
	Ferrichrome (CS30)	FeCr	70 µs	FeCr	0
	AHF	LN, LH	120 μs	Normal	0
			70 µs	CrO ₂	0
	JHF Metallic	CrO ₂ Metal	70 µs	Metal	0
unda industria entri frattante.			-		
TDK	D	LN, LH	120 μs	Normal	0
the season of th	AD	LN, LH	120 µs	Normal	+2
	SA	CrO,	70 μs	CrO ₁	+2 点点点 医复节 医侧外电路
	MA-C46	Metal	70 µs	Metal	0



The PAUSE button may be depressed if you wish to momentarily halt recording.

 When you have completed a recording, press the STOP button.
 When the tape becomes fully wound onto the take-up spool, it will stop automatically.

*Note

Refer to the table on page 15 for optimum setting of Tape Selector and Bias Adjust control.

PLAYBACK

- When using Dolbyized tapes, set the DOLBY NR switch to ON.
 Set the TAPE SELECTOR switches to match the type of tape used.
- Turn the power switch on your amplifier to ON, with the volume control set to the minimum position. (When using headphones connected to the tape deck, there is no need to use the amplifier for playback).
- 4. Turn the POWER switch to ON.
- 5. Press the PLAY button to begin playback.
- Adjust the volume to your desired volume level.
- 7. To momentarily halt playback, press the PAUSE button. When you wish to end playback, press the STOP button. When the tape becomes fully wound onto the take-up spool, it will stop automatically.

HEAD CLEANING

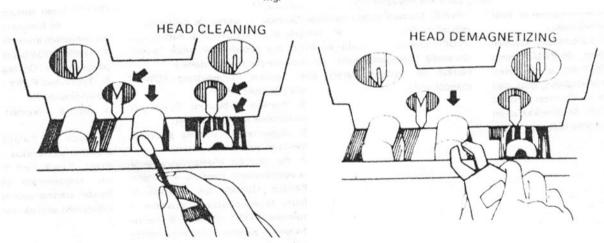
The most frequent cause of failure to record in one or both channels, or of weak, distorted sound, is dirty tape heads and capstan. So, be sure to clean the heads, capstan, pintch roller and tape guides as often as possible using a "Q" tip dipped in ordinary rubbing alcohol or commercial liquid tape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



HUM

In any high fidelity installation, hum may be caused by interconnecting associated equipment. If the addition of the RD-500 to your system is accompanied by previously nonexistent hum, reverse the AC line plug in its socket. If this does not help, you may have defective interconnecting cables or the cables may be located too near a strong AC field, such as a television, power transformer, AC motor, or power lines. Do not attempt changes to plug connections in the U.K. in any attempt to reduce hum in your system.

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

To 100 100 100 100 100 100 100 100 100 10			2.003.8.19 (4.14)			
Heads						
		Ferrite Core (ERASE)				
Track						
Tape Speed						
Motor						
Wow and Flutter						
Distortion (REC/PB, 400Hz)			ing above the specific			
Frequency Response			30 to 15,000Hz±3dB			
	Chrom		30 to 15,000Hz±3dB			
	FeCr	street on 3	30 to 16,000Hz±3dB			
	Metal	3	0 to 17,000Hz±3dB			
Signal-to-Noise Ratio			cyclotheologic macula			
(Chromium)	Dolby	.Dolby NR in: 64dB				
minute autoutle reids v s	Dolby	Dolby NR out: 55dB				
Input Sensitivity/Impedance.	. MIC	MIC _0.3mV/10 kohms				
	LINE 25mV/27 kohms					
Output Level	410m\	//1 kohms	reforming the control of the			
Fast Wind Time (C-60)	90 seco	onds				
Tape Selector	BIAS	EQUALIZER	BIAS ADJUST			
Normal, LH	100%	120µs	±15%			
Chromium	150%	70µs	±15%			
FeCr	110%	70µs	±15%			
Metal	200%	70µs	±15%			
MISCELLANEOUS						
Power Requirement	Hz, 240V/50Hz					
Table are in the are	120, 2	20, 240V/50 -	60Hz			
Power Consumption	15 wat	ts				
Dimensions (Overall)						
	16-15/	16" x 4-23/32"	x 10-9/16"			
	C C. 110					

Specifications and design subject to possible modification without notice.

Noise reduction system manufactured under license from Dolby Laboratories

Dolby and the double-D symbol are trade marks of Dolby Laboratories.