

owner's manual

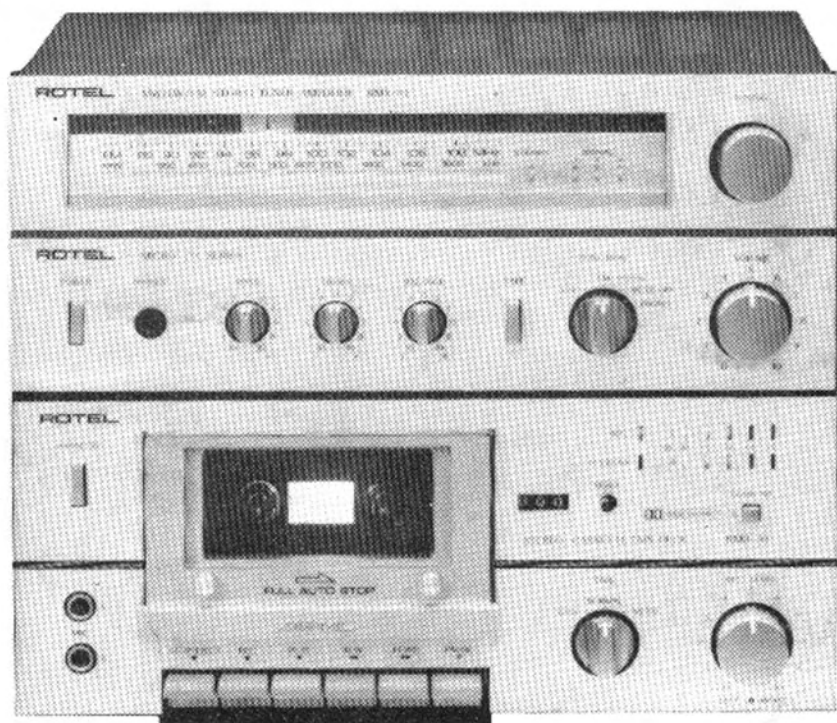


Photo: RMX-70/RMD-70

Quality. Uncompromised.

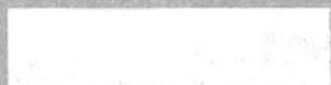
ROTEL[®] MICRO SYSTEM 70

STEREO TUNER AMPLIFIER RMX-70/RMX-70L AND
STEREO CASSETTE DECK RMD-70

ENGLISH 1

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 TUNER AMPLIFIER RMX-70/RMX-70L AND STEREO CASSETTE DECK RMD-70

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.

HOW TO USE TUNER AMPLIFIER RMX-70/RMX-70L AND CASSETTE DECK RMD-70

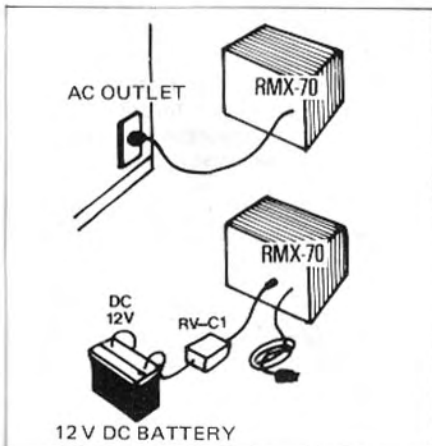
POWER SOURCE

IMPORTANT! The RMX-70 can be powered either from a household a.c. outlet (wall outlet), or from the Rotel RV-C1 (DC/DC converter) to which 12-volt d.c. battery is connected.

Note that the RMD-70, however, is powered only through the special socket provided on the rear panel of the RMX-70, and not in any other way. Be sure to use only this special system in supplying power to the RMD-70.

RMX-70/RMX-70L

To supply power to the RMX-70, plug the unit into a household wall outlet. Do not connect the unit to a power source of different rating, such as those for power equipment. Do not supply power through a power outlet built into the back of other audio components. The rear panel of the RMX-70 is provided with a socket for DC/DC converter, through which 12-volt d.c. power supply flows to unit. Plug the DC/DC converter Rotel RV-C1 (available separately) into this socket, so that you can use a 12-volt d.c. battery (e.g. car battery) for powering the RMX-70. In this case, the a.c. cord coming from the RMX-70 must be unplugged from the a.c. mains.



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.

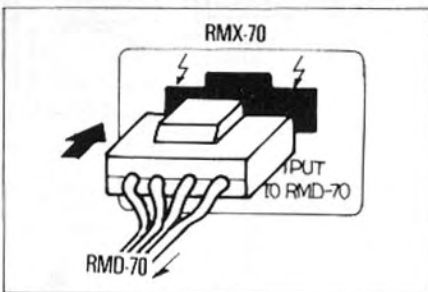
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

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.

RMD-70

The RMD-70 is designed to operate only on power supplied through the RMX-70's special power supply socket. The square 4-pin plug coming out of the rear panel of RMD-70 should be inserted into the power supply socket on the rear panel of the RMX-70. Never attempt to connect the RMD-70 power cord to any power outlet other than the special socket on the RMX-70. If the cord is plugged into a wall outlet, etc., that may not only cause failure of the unit, but also constitute a fire hazard.



PRECAUTIONS

1. The power supply socket on the RMX-70 is designed to accept the power plug from the RMD-70 only. Trying to insert any other kind of plug or object to this power socket will cause serious trouble in the unit.

2. Place the RMX-70 and RMD-70 in a well-ventilated location free from direct sunlight, vibrations, and circulating dust.

3. Should water or any foreign matter enter the RMX-70 or RMD-70, immediately disconnect the wall plug and consult your dealer.

4. Do not open the cabinet. The construction inside is intricate and careless opening of the cabinet may cause trouble in the unit. It could also cause electrical shock.

5. When unplugging the RMX-70 from a wall outlet, first make sure the power switch on the unit is turned off.

Also be sure to turn off the Standby switch on the RMD-70 before disconnecting the power plug from the RMX-70.

Make it a habit to hold the plug portion when disconnecting the power cord, not the cord.

6. Retain this instruction booklet along with the warranty. On the cover of this booklet, write down the serial numbers of each piece of equipment found on the rear panels.

7. Cassette tapes:

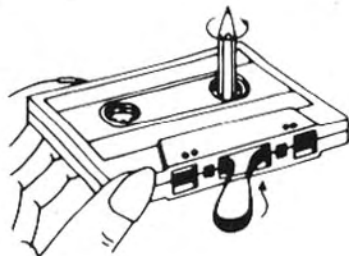
- To prevent possible trouble with the transport mechanism, use of large size cassette tapes, such as C-120, is not recommended.

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



CONNECTING MICRO 70 SYSTEM

1. Speaker Hookup and Impedance Matching

Connect Rotel RML-70 speaker system or other to the speaker terminals on the rear panel of the RMX-70.

The left-hand speaker should be connected to speaker terminals labeled LEFT on the RMX-70, and the right-hand speaker to terminals labeled RIGHT. Be sure to match plus (+) and minus (-) terminals of the speaker and the RMX-70 correctly.

The speaker terminals of the RMX-70 are the push-insert type. Insert the end of each speaker cable (about 10mm of its insulation should have been stripped off the end) into the terminal while pushing on the button of the terminal.

When using speaker system other than RML-70, take note of its impedance rating. The RMX-70 allows hookup of speaker system with impedance ratings of 4-16 ohms. Before hooking up your speaker system, be sure to check its impedance, which should be indicated either on the back of the speaker, or in the speaker instruction manual.

2. Connecting Cassette Deck RMD-70

Two sets of pin cords extend from the rear panel of the RMD-70. Connect the cords from LINE IN (REC) to TAPE MONITOR OUT terminals on the rear of RMX-70, and connect the cords from LINE OUT (PLAYBACK) to TAPE MONITOR IN terminals, making correct LEFT and RIGHT connections. The white plug is for the left channel connection, and the red plug is for the right channel connection. Insert the RMD-70 power plug into the socket on the RMX-70 labeled "DC POWER OUTPUT TO RMD-70."

3. Connecting Cassette Deck Other Than RMD-70

If you already have a cassette deck other than the RMD-70, you can enjoy playback and recording with your own deck also, by connecting its pin cords to the TAPE MONITOR terminals of RMX-70.

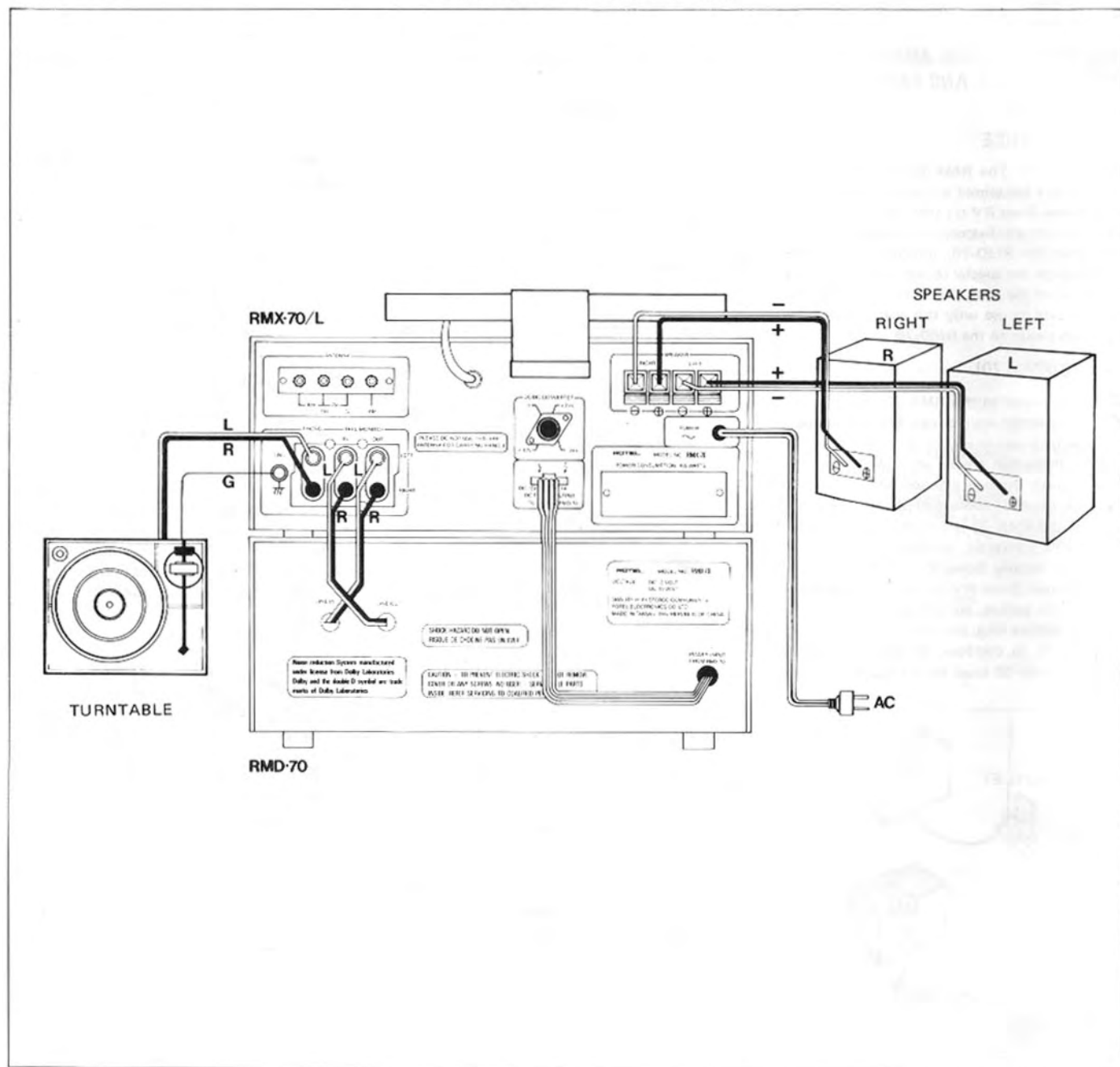
Connect IN (REC) terminals on the deck side to the OUT terminals of RMX-70, and OUT (PLAY) to the IN, taking care to make correct left and right connections. The deck should be properly supplied with power according to the instructions given for the unit. (The RMX-

70 cannot supply power to any deck other than RMD-70.)

Note that if the RMD-70 has already been connected to the RMX-70, no other deck can be hooked up at the same time.

4. Connecting Turntable

Connect pin cords coming from the turntable to PHONO terminals on the rear panel of RMX-70, correctly matching LEFT and RIGHT unit terminals. The grounding wire of the turntable should be fixed onto the GND terminal located at the left of PHONO terminals.



ANTENNA INSTALLATION AND CONNECTION (RMX-70/RMX-70L)

■ FM ANTENNA

Proper installation of antenna is the key to smooth signal reception. To install the attached T-shape indoor antenna, stretch it taut and secure horizontally along a wall or the like in a location where signal reception is optimal. Securely connect the antenna to FM antenna terminals marked "300Ω" on the rear panel. If outdoor type FM antenna is installed, the T-shape antenna is not necessary. For proper use of your outdoor FM antenna, follow the instructions below.

1. Be sure to select the most appropriate type of antenna for the signal reception conditions in your area.

2. A 75-ohm coaxial cable is recommended in connecting the antenna to the unit.

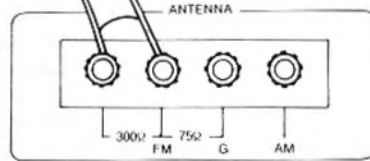
3. Set the antenna in a position as high as possible if buildings, mountains or other obstructions nearby affect reception.

4. Connect the 75-ohm coaxial cable to the antenna terminals located on the rear panel, as shown in the figure.

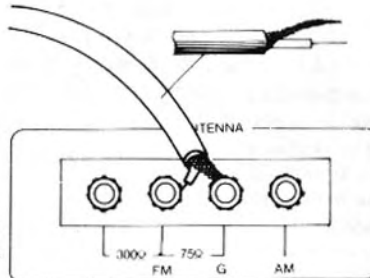
■ AM ANTENNA

Erect the AM ferrite bar antenna provided on the rear panel. If you install outdoor AM antenna, connect the antenna lead wire to the antenna terminal marked "AM."

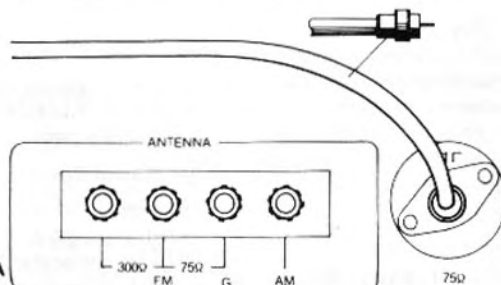
FM 300Ω
FM 300Ω T-SHAPE
ANTENNA



FM 75Ω
FM 75Ω OUTDOOR
ANTENNA

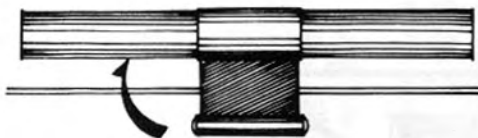


FM 75Ω
(U.K. ONLY)
FM 75Ω OUTDOOR ANTENNA
COAXIAL CABLE W/SOCKET



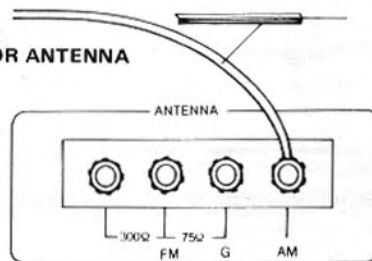
(This coaxial jack is only available for RMX-70L U.K. type)

AM FERRITE BAR ANTENNA



AM OUTDOOR ANTENNA

AM

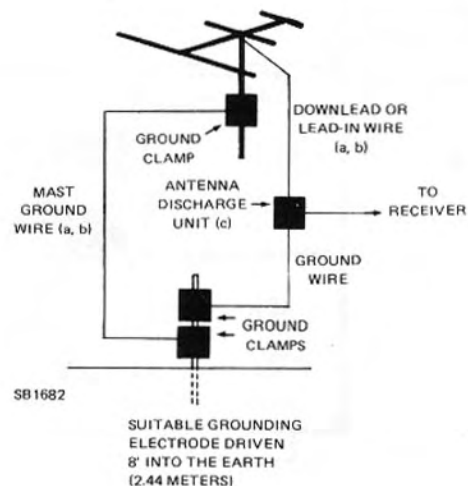


EXCLUSIVE NOTES FOR THE U.S.A.

Outdoor Antenna Grounding

If an outside antenna is connected to the receiver/tuner, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1978, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure below.

- Use No. 10 AWG copper or No. 8 AWG aluminum or No. 17 AWG copper-clad steel or bronze wire, or larger as ground wires for both mast and lead-in.
- Secure lead-in wire from antenna to antenna discharge unit and mast ground wire to house with stand-off insulators, spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
- Mount antenna discharge unit as closely as possible to where lead-in enters house.



SWITCHES AND CONTROLS

RMX-70/RMX-70L

(1) Power Switch

Depress this button to turn on the unit. When it is turned on, the dial pointer will be illuminated. Press the button a second time to turn off the unit.

(2) Headphone Jack

For private listening, plug your headphones into this jack. When headphones are connected, no sound will be emitted from the speakers. Volume level for the headphones is regulated with the volume control.

(3) Tone Controls (BASS/TREBLE)

Two separate controls regulate bass and treble respectively: BASS is for the low frequency range and TREBLE for the high frequency range. Rotate the knob clockwise to increase the response, and counterclockwise to decrease it. A flat response is obtained when both controls are at mid-position. Use the controls effectively for optimum sound performance.

(4) Balance Control

This knob regulates the relative sound output from each channel. At mid-position, the level of sound from both speakers will be the same. Turning it to the right will cause the volume level of the left channel to decrease relative to the right, and vice-versa. Adjust the control according to your listening position.

(5) Tape Monitor Button

Depress this button for playback of tape deck. On occasions other than tape playback, leave the button in released position.

(6) Function Selector

The function selector works only when the Tape Monitor button is in released (OFF) position. This knob is used when listening to AM or FM broadcasts, or to signal from turntable.

Set the knob to AM to receive AM broadcast, and to FM for FM broadcast. When the unit receives stereo FM broadcast, it will reproduce the sound stereophonically. The FM MUTE OFF position is used when signal from a given station is so weak that its reception cannot be made satisfactorily in the FM position. Set to PHONO position to reproduce signal sent through PHONO terminals from turntable. On RMX-70L, AM reception is either in MW or LW mode. Set to MW for middle wave reception, and to LW for long wave reception.

(7) Volume Control

This knob regulates the volume level. Rotate the knob clockwise to raise the volume level, and counterclockwise to reduce it. When the knob is turned fully counterclockwise, no sound is produced. Always have the volume control set to minimum before you turn on power.

(8) Tuning Knob

Tune in to desired station with this knob. Rotate it to the left to bring the dial pointer to the left, and vice-versa.

(9) Signal Strength Indicator

The three LEDs show incoming signal strength; receiving condition is optimal when all three LEDs are illuminated.

(10) Stereo Indicator

Glowes when stereo broadcasting signal is tuned

in. Note that when stereo signal is very weak, the unit may give only monaural reproduction. In that case, the indicator will not light up even through the unit is tuned to a stereo program.

(11) Dial Scale

The dial scale shows the frequency reception range for respective bands.

RMD-70

(12) Standby Button

Depress this button to turn on the deck. When it is turned on, the cassette compartment is illuminated. Pressing the button a second time will turn off the unit and the illumination goes off.

(13) Microphone Jacks

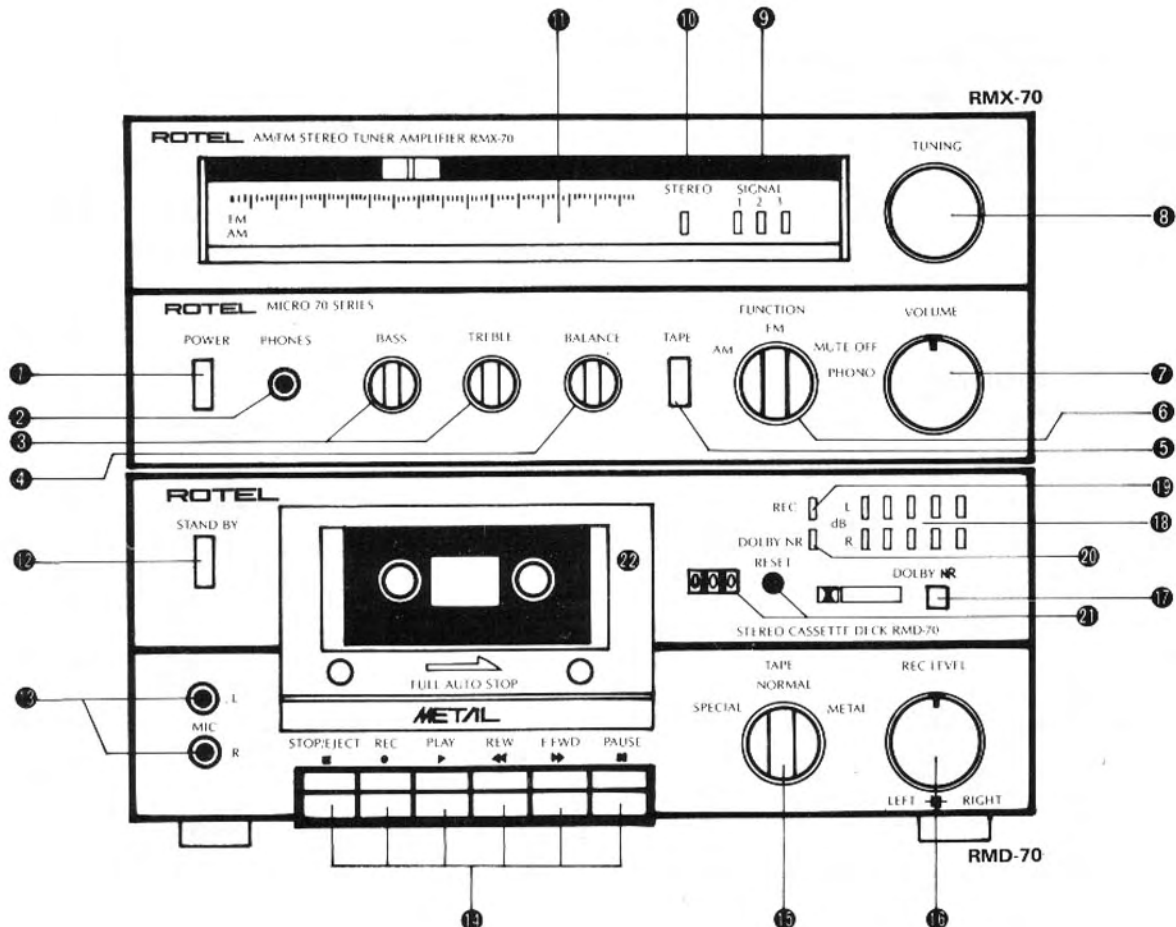
When making live recording with stereo microphones, insert the microphone plugs into microphone jacks. Make sure the right-hand microphone is plugged into the right channel jack, and the left-hand microphone into the left channel jack.

Note: Be sure to unplug the microphones when recording from other sources.

(14) Cassette Mechanism Controls

STOP/EJECT Button

This button is used to disengage the recording, playback, fast-forward, or rewind mode. After stopping the tape, release the button, then press all the way down to open the cassette door for removal of cassette tape. Also use this button when inserting the cassette.



REC Button

Used to put the deck in the recording mode. To record, simultaneously depress this button and PLAY button.

PLAY Button

Used to play back prerecorded tape. When depressed, the deck is put in the play mode and the tape starts. Depress the same button simultaneously with the REC button when going into the recording mode. The button will disengage automatically when the end of the tape is reached in either playback or recording mode, to protect the tape and the cassette mechanism.

REW Button

Depress this button to rapidly rewind the tape. Rewind will stop automatically when the end of the tape is reached, to protect the tape and the mechanism.

F.FWD Button

Depress this button to rapidly advance the tape. Fast-forward will stop automatically at the end of the tape, to protect the tape and the mechanism.

PAUSE Button

Depress this button to temporarily halt tape travel when in recording or playback mode. Unlike the STOP/EJECT button, this button will not disengage either recording or playback mode currently engaged. It is convenient when performing recording level adjustment or when you wish to stop or start the tape quickly and smoothly. Pressing the button a second time will restart the tape, returning deck to the interrupted mode.

Note: Do not use PAUSE button when in rewind or fast-forward.

• Automatic Shutoff System

To protect the RMD-70 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 go 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 Standby button.

(15) Tape Selector

This knob is used to select the appropriate recording bias and playback equalization, according to type of cassette tape used. Use the SPECIAL position for chromium dioxide tape, NORMAL position for normal tape, and METAL position for metal particle tape. Setting the knob to proper position will allow optimal recording or playback performance for a given type of tape. See TAPE SELECTOR SETTING GUIDE for details of various brands of cassette tapes and their proper selector positions.

(16) Recording Level Control

This is used in recording. It controls the recording level of incoming signals from tuner, turntable or microphones. Separate control of left and right channel is possible.

(17) Dolby NR Switch

Depress this button to activate the built-in Dolby NR circuit provided for high-frequency range noise reduction. Use the button when

you wish to record or play back through the Dolby NR circuit.

(18) Level Indicator

Gives instantaneous display of recording or playback level for both left and right channels. Each row of 5 LEDs directly shows levels from -10dB to +6dB.

(19) Recording Indicator

This indicator glows when the unit is in the recording mode.

(20) Dolby NR Indicator

Glow when Dolby NR switch is activated.

(21) 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 counter is convenient in finding the beginning of a specific section of the tape or checking the amount of tape remaining on a cassette.

(22) Tape Holder

Cassette tape is loaded into the tape holder.

OPERATING MICRO 70 SYSTEM

- Check to see that power connection is properly made.
- Check to see that each system component is properly connected.
- Before turning on the power in the RMX-70, always make sure the volume control is set to minimum.
- The RMD-70 cannot be activated by depressing the Standby button alone. First turn on the power button on the RMX-70, and then the Standby button.
- Set the Balance control and Tone controls on the RMX-70 as desired.
- When supplying power from 12-volt battery through the DC/DC converter Rotel RV-C1, check first to see if the voltage of the battery is high enough.

Receiving Broadcasts

Turn on the power in RMX-70.

If you wish to record a broadcast with RMD-70, turn on the RMD-70 also, depressing the Standby button.

1. Set Tape Monitor button on RMX-70 to released (OFF) position.
2. Set Function Selector on the RMX-70 to FM position to receive FM signal. If the receiving signal is too weak to hear clearly, set the selector to MUTE OFF position. In the MUTE OFF position, the muting function is not effective and interstation noise is generated when tuning, but reception of weak signal is possible. When receiving AM signal, set the selector to AM.

• For RMX-70L

On the RMX-70L, AM reception is possible in MW or LW position. Set to the appropriate position according to the desired band.

3. Tune in to the desired station using the tuning knob. Check the signal strength indicator, and place the knob where the indicator shows higher reading.

In FM reception, the Stereo indicator will light up when stereo broadcast is received.

4. Set volume level as appropriate and enjoy listening.

Tape Playback with RMD-70

Turn on the RMX-70 and RMD-70.

1. Place Tape Monitor button on the RMX-

70 in depressed (ON) position.

2. Set the RMD-70 as follows.

- a. When playing back the tape recorded through Dolby NR system, depress the Dolby NR button to ON.

- b. Set Tape Selector as appropriate according to the type of tape used.

- c. Load a cassette tape: First depress STOP/EJECT button all the way to open the cassette door. Hold the cassette tape with the side you wish to play back facing you, and the exposed tape side down, and gently slide the cassette down the inner side of the cassette door. Then push the door closed.

- d. Depress PLAY button to start playback.

3. Raise the volume level as appropriate on the RMX-70.

4. To temporarily halt playback, depress PAUSE button on the RMD-70. To restart the playback, press the same button a second time. When the tape comes to the end, the unit stops automatically, disengaging the playback mode. To stop the operation midway, press STOP button.

Note: To operate a tape deck other than the RMD-70, follow the instructions given for the deck, after activating the Tape Monitor button on the RMX-70.

Playing the Turntable

Turn on the RMX-70 and turntable connected to it. When you wish to record the signal from the turntable with the RMD-70, depress RMD-70 Standby button to ON.

1. Set Function Selector on the RMX-70 to PHONO.

2. Commence play, following the instructions given for the turntable.

3. Find the appropriate volume level and enjoy listening.

Recording with RMD-70

Turn on the RMX-70 and RMD-70. If you wish to record the signal from the turntable, turn on the power in the turntable also. When recording using microphones, plug the microphones into the MIC terminals on the front panel of the RMD-70. (Connect the microphones only when recording through the microphones; do not connect them when recording program sources.) Prepare the cassette tape you wish to record on. Make sure the safety tab is present on the back.

1. Load the cassette tape onto the RMD-70: First depress STOP/EJECT button all the way to open the cassette door. Hold the cassette tape with the side you wish to record on facing you, and the exposed tape side down, and gently slide the cassette down the inner side of the cassette door. Then push the door closed. If you wish to record through Dolby NR circuit, depress the Dolby NR button to ON.

Set the Tape Selector as appropriate according to the type of tape used.

2. To record a broadcast or signal from the turntable, play the desired source by using the RMX-70 and/or the turntable according to the instructions above.

When recording through microphones, operation of RMX-70 is not necessary.

3. Depress PAUSE button on the RMD-70.

4. Simultaneously depress REC and PLAY buttons on the RMD-70.

5. The level indicator on the RMD-70 will show the levels of incoming signals. Adjust the recording level control so that the indicator does not often exceed 0dB position. The level indicator is inoperative when there is no signal input. It may be necessary, therefore,

to check the incoming signal level prior to recording by a trial play of the source, or putting some sound into the microphones.



6. After adjusting the recording level, begin the play, pressing the PAUSE button again to put the unit into the recording mode.

7. To temporarily stop the recording, use the PAUSE button. At the end of the tape, the unit stops automatically, disengaging the recording mode. To stop operation midway through the tape, press STOP button.

Note: To record with tape deck other than the RMD-70, follow the instructions given for the deck.

When broadcasting station is tuned in on the RMX-70, or when playing a record, the signal from the source appears at TAPE MONITOR OUT terminals. Manipulating Tone controls and Balance control will have no effect on this signal. You may, therefore, listen to the sound with these controls set as desired during recording.

PROTECTION CIRCUIT (RMX-70/RMX-70L)

The RMX-70 incorporates fuse-type protection circuit. It will be activated to cut the power in case of an accident, such as short-circuit of speaker cables. If the sound is cut off suddenly during operation, disconnect the system from the power source, and consult your dealer.

MAINTENANCE

Always keep the Micro 70 System clean, regularly wiping dirt or dust off with a soft, dry cloth.

• Voltage Selection (RMX-70/RMX-70L)

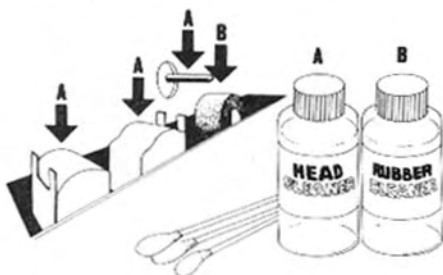
Not available for U.K., Canada and Scandinavia

The unit is variable voltage equipment that can run on a 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, consult your dealer. **BE SURE THAT YOUR UNIT IS NOT CONNECTED TO THE POWER SOURCE BEFORE ATTEMPTING TO MAKE THIS CHANGE.**

• Head Cleaning and Demagnetization (RMD-70)

1. 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.



2. 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.

• Hum and Noise

In any high fidelity installation, hum may be caused by the interconnection of a turntable, tuner and amplifier, and speakers as the result of wiring, different grounding or locations of components.

If hum is experienced with your unit, disconnect everything but the speakers from the unit. Plug in the turntable and if hum or howling appears, move the turntable away from the speakers as much as possible.

Note hum may also be induced by defective cable connections or by running the cables too close to a strong AC field.

When your unit picks up noise during the reception of broadcasts, causes are mostly due to external objects such as fluorescent lamps and house appliances using motor or thermostat, or others that may induce the noise.

Either relocating the unit away from the noise sources or using an improved outdoor antenna may readily solve the problem.

In the event you cannot find the cause, consult your dealer or a qualified electrician.

STEREO TUNER AMPLIFIER RMX-70/RMX-70L SPECIFICATIONS

AMPLIFIER SECTION

Continuous Power Output . . . . .	.20 watts* per channel, min. RMS both channels driven into 8 ohms from 20 to 20,000Hz with no more than 0.08% total harmonic distortion.
Total Harmonic Distortion	No more than 0.08% (continuous rated power output)
	No more than 0.08% (continuous 1/2 rated power output)
	No more than 0.1% (1 watt per channel power output 8 ohms)
Intermodulation Distortion	No more than 0.08% (continuous rated power output)
(60Hz : 7kHz = 4 : 1)	No more than 0.08% (continuous 1/2 rated power output)
	No more than 0.1% (1 watt per channel power output 8 ohms)
Output: Speaker . . . . .	.8-16 ohms
Headphone . . . . .	.4-16 ohms
Damping Factor . . . . .	.45 (20 to 20,000Hz, 8 ohms)
Input Sensitivity/Impedance:	
PHONO . . . . .	.25mV/47 kohms
TAPE IN . . . . .	.150mV/37 kohms
Overload Level (T.H.D. 0.1%, 1kHz):	
PHONO . . . . .	.130mV
TAPE . . . . .	.5V

Frequency Response:

PHONO . . . . .	.30 to 15,000Hz, ± 0.3 dB (RIAA STD)
TAPE IN . . . . .	.5-70,000Hz ± 0 dB, -1.0 dB

Tone Control:

BASS	± 10 dB (50Hz)
TREBLE	± 10 dB (15kHz)

Signal-to-Noise Ratio (IHF, A-network):

PHONO . . . . .	.82dB
TAPE IN . . . . .	.90dB

FM TUNER SECTION

Usable Sensitivity (mono) 11.2dBf/2.0 μ V/300 ohms
50dB Quieting Sensitivity:

Mono	17.8dBf/4.3 μ V/300 ohms
Stereo	41dBf/63 μ V/300 ohms

Signal-to-Noise Ratio (at 65dBf):

Mono . . . . .	.72dB
Stereo . . . . .	.65dB

Harmonic Distortion (at 65dBf):

100Hz . . . . .	.0.3% (mono), 0.5% (stereo)
1kHz . . . . .	.0.3% (mono), 0.5% (stereo)
6kHz . . . . .	.0.35% (mono), 0.6% (stereo)

Frequency Response 30 to 15,000Hz, $+1.0$ dB, -1.5 dB

Capture Ratio 1.0dB

Alternate Channel Selectivity 60dB

Spurious Response Ratio 70dB

Image Response Ratio 40dB

IF Response Ratio 75dB

AM Suppression Ratio 56dB