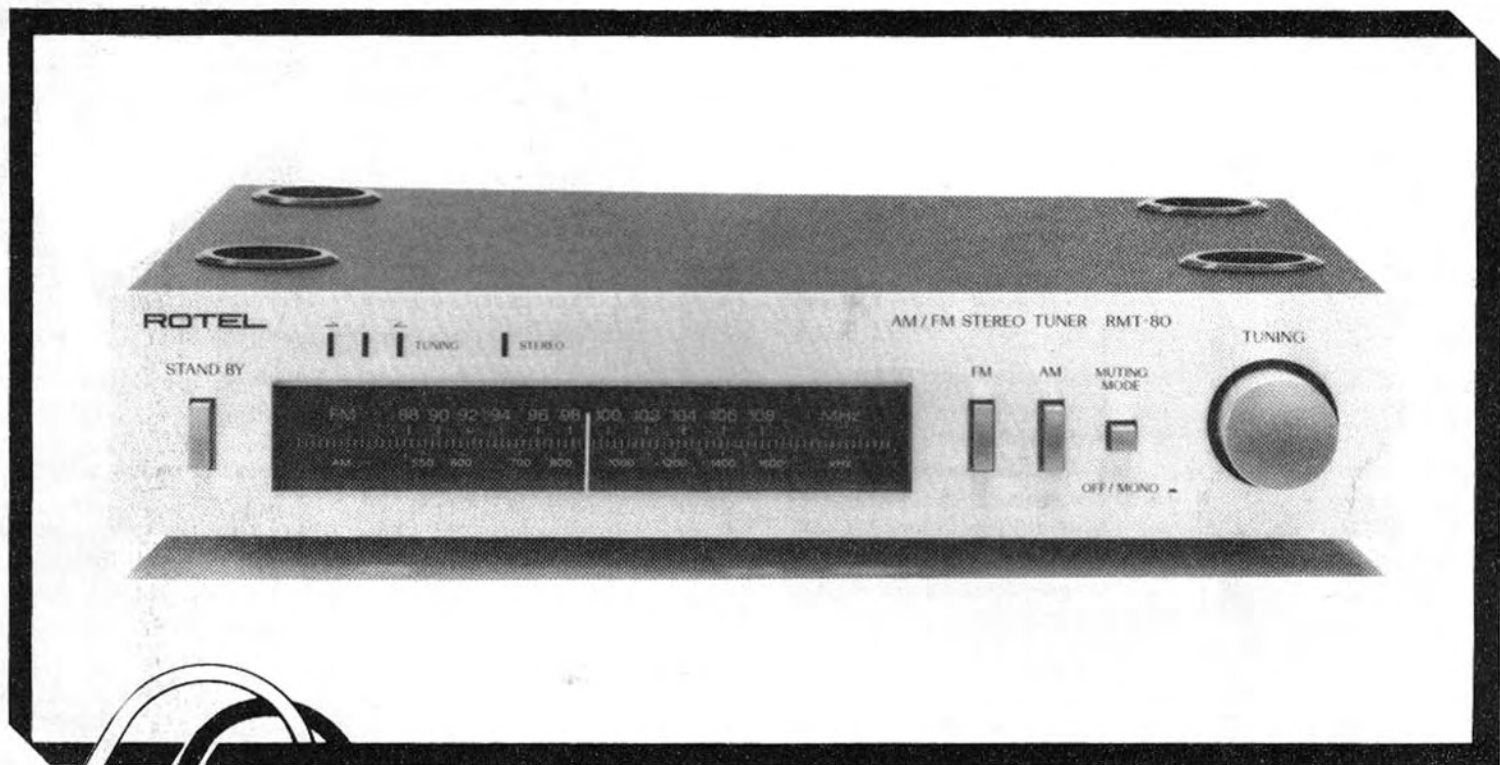


OWNER'S MANUAL

Quality. Uncompromised.

ROTEL®



MICRO COMPONENT 80 SYSTEM
STEREO TUNER

RMT-80

RMT-80L

**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.

THE ROTEL CO., LTD.
1-36-8 Ohokayama, Meguro-ku, Tokyo, Japan

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.

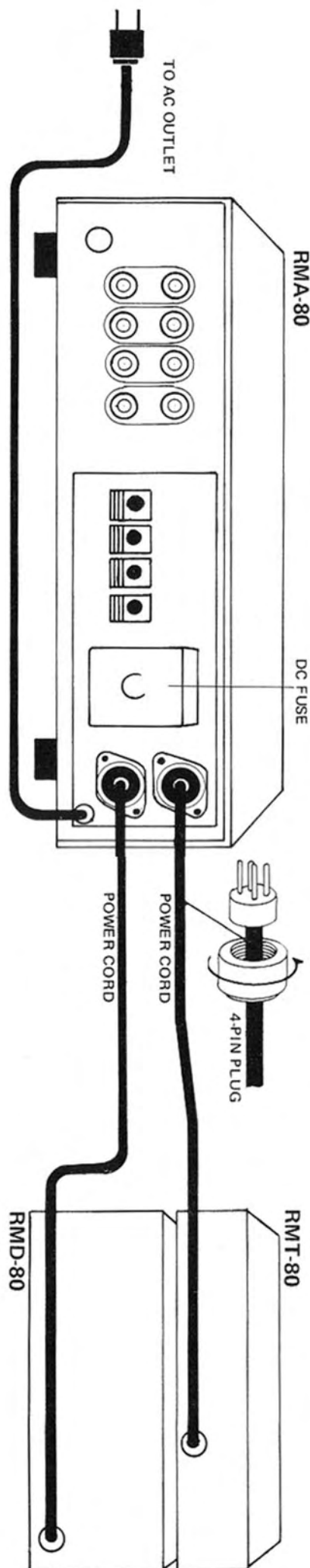
PRECAUTIONS AND POWER SUPPLY

For maximum safety carefully follow the instructions below:

1. Power Supply

In the Micro Component 80 System, the power supply section of the integrated amplifier RMA-80 feeds the necessary power to the AM/FM tuner RMT-80 and the cassette deck RMD-80.

- To supply power to the amplifier RMA-80, connect the AC power cord of the unit into a household wall outlet. Do not attempt to plug the cord into an outlet for power equipment, a convenience outlet on other audio component, or any other outlet of different rating. To prevent possible shock noise or damage to the speakers, always be sure to connect or disconnect the AC power cord only after turning



off the power switch on the unit.

- The RMT-80 and RMD-80 can be powered only through the power supply connectors on the rear panel of the RMA-80. Insert the 4-pin plugs extending from the rear panel of the RMT-80 and RMD-80 all the way into the power supply connectors of the RMA-80, thus insuring a perfect connection. Never attempt to insert the 4-pin plugs into a wall outlet or other power source that may damage the units. Also, do not attempt to insert any other plug into the power supply connector of RMA-80.

2. Installation

The unit must be placed in a level, flat and well-ventilated location free from humidity, vibrations, dust, and high temperatures and not exposed to direct sunlight. Improper placement conditions may have undesirable effects to the units.

3. Do not open the cabinet

To avoid possible electric shock or damage to the component, never open the cabinet. If some object falls inside the cabinet by mistake, turn off the power, disconnect the wall plug, and consult a qualified electrician or your dealer.

4. Turn the volume control to minimum

An excess of current in the lower frequency range may cause damage to the speakers when lowering the tonearm of your turntable onto a record. Set the volume control of RMA-80 to minimum before lowering the stylus onto a record. Always keep the volume at minimum whenever the power switch is turned on.

5. When moving the components

When transporting the units, remove the AC plug from the wall outlet and disconnect all cords on the rear panel to prevent wire breakage and short circuit.

6. If the unit gets wet or foreign matter enters

Should water or any foreign matter enter the cabinet, immediately disconnect the AC cord, and consult your dealer or a qualified electrician.

7. Retain the owner's manual

Keep the owner's manual near the component, and write down the serial number (found on the rear panel) on the cover.

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.

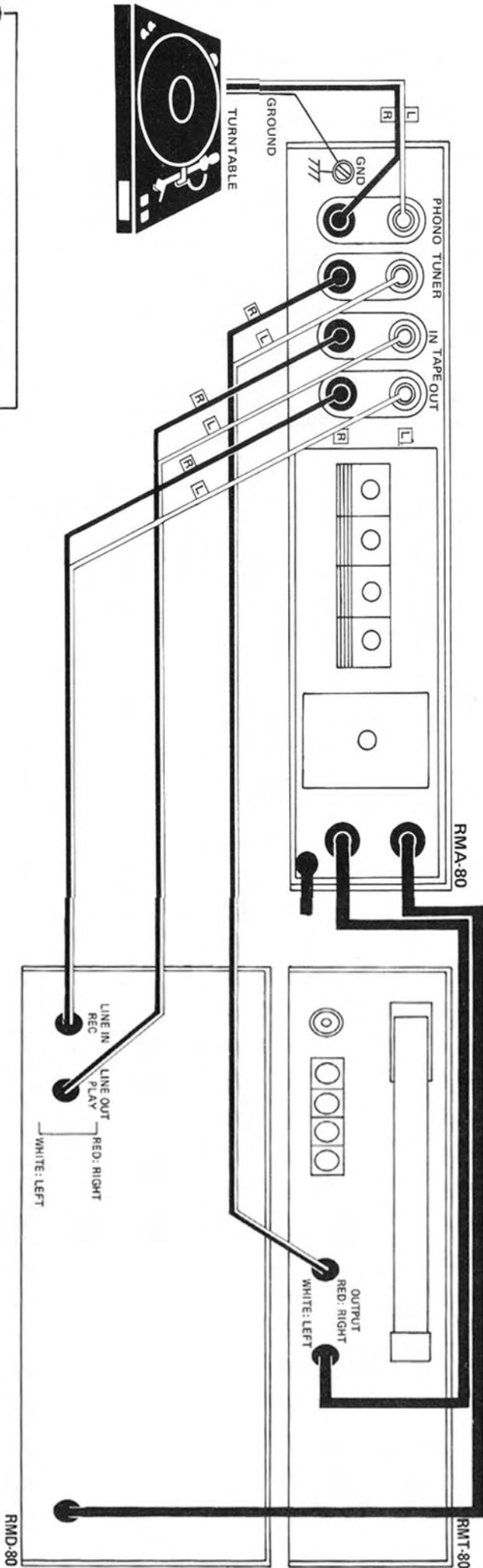
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLUE or BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

CONNECTING MICRO COMPONENT 80 SYSTEM

Make connections as directed by the illustration.

1. Turntable

Connect the RCA pin cords extending from your turntable to the PHONO terminals on the rear panel of RMA-80, correctly matching L and R terminals of the components. Connect grounding wire of the turntable to GND terminal on the RMA-80 rear panel.



2. AM/FM tuner RMT-80

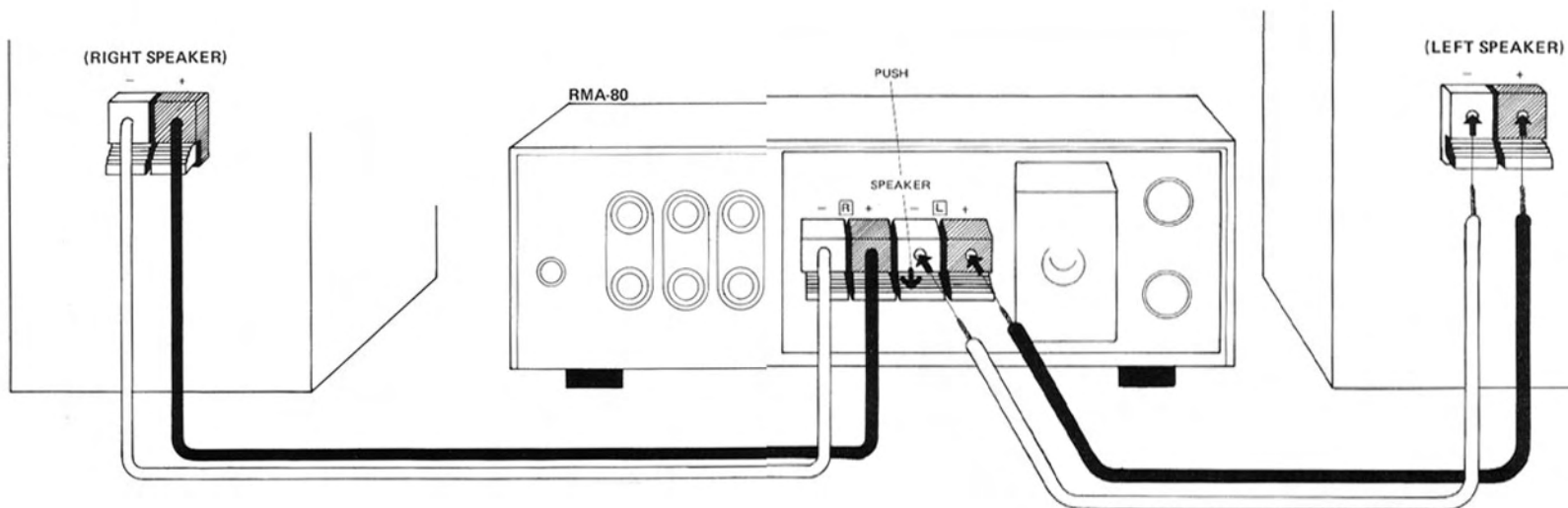
Connect the RCA pin cords extending from the tuner to TUNER terminals on the rear panel of RMA-80, correctly matching L and R terminals of the units.

3. Cassette deck RMD-80

Connect RMD-80 RCA pin cords extending from LINE IN and LINE OUT, to TAPE terminals on the rear panel of RMA-80. LINE IN cords from the deck should be connected to TAPE OUT terminals of the amplifier; and LINE OUT cords to TAPE IN terminals. Be sure to correctly match L and R terminals of the units.

4. Speakers

Speaker terminals of RMA-80 are push-insert type. Connect the leads from the left-hand speaker to L-terminals, and the leads from the right-hand speaker to R-terminals, correctly matching (+) and (-) terminals of the components.

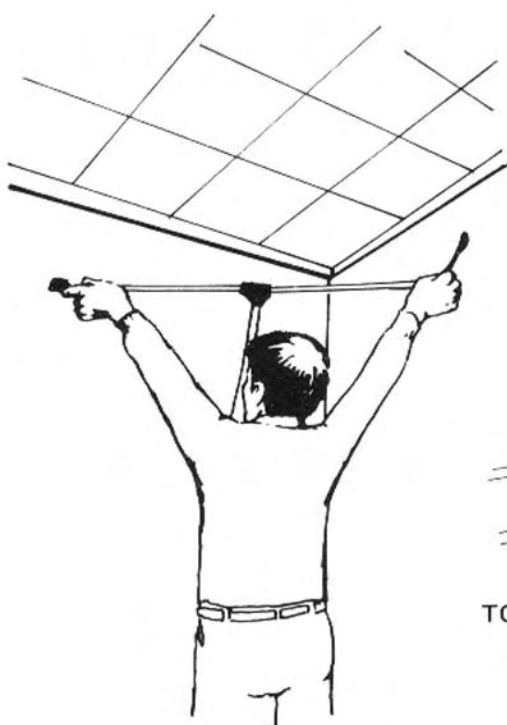


AND CONNECTION

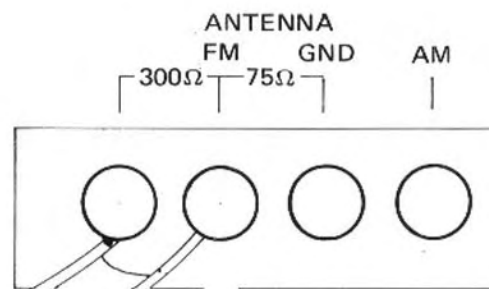
■ FM ANTENNA

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 to minimize effect from multipath with optimal antenna position.

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.



TO T-SHAPE FM ANTENNA



FM ANTENNA INSTALLATION (1)
(When using the auxiliary T-shape FM antenna)

■ AM ANTENNA

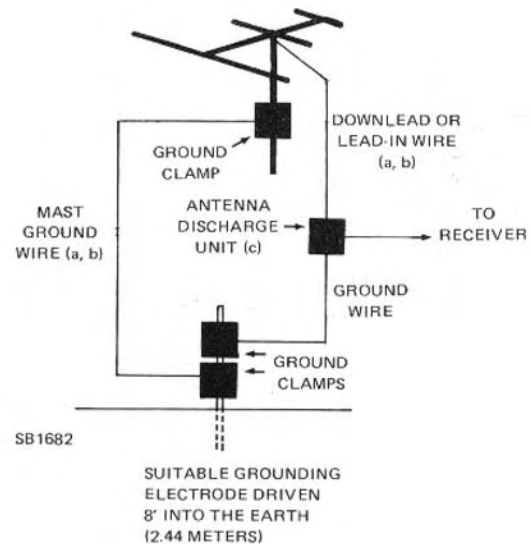
Erect the AM ferrite bar antenna provided on the rear panel. If you install outdoor AM antenna, connect the antenna lead wire to the antenna terminal marked "AM."

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.

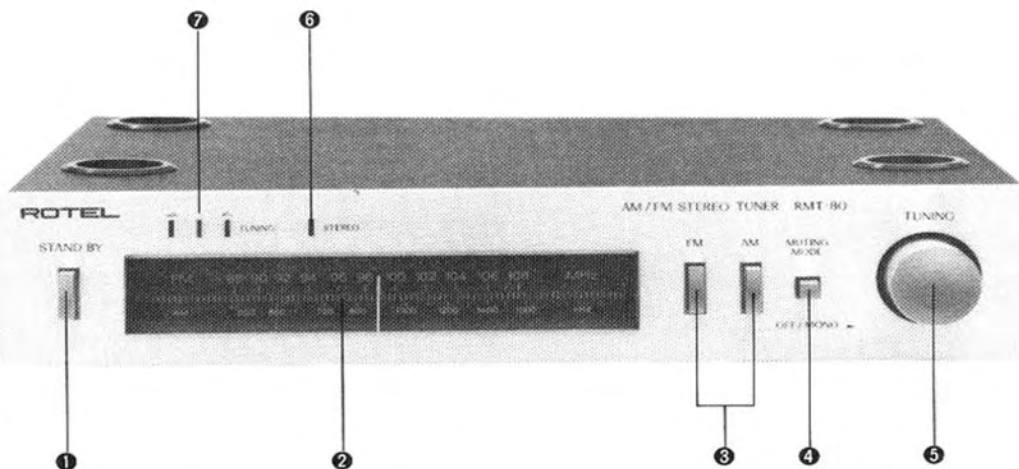


NOISE IN FM RECEPTION

If noise is introduced, it is usually caused by improper positioning of antenna cable or improper antenna installation. Use a 75-ohm cable for outdoor FM antenna and minimize multipath to obtain optimal signal reception. Note that during signal reception the unit may pick up noise from other household electric appliances (as when switching power on or off). In that case, check the relative location of the appliances and keep them away from the unit, or vice versa, as necessary.

Note 1: In a location near a broadcasting station, very strong signals may cause noise or distortion, depending on the type of antenna used. In that case, install an attenuator between the antenna and the tuner.

Note 2: Inside a concrete building, FM signals are weakened and satisfactory reception may be difficult. An outdoor FM antenna is a definite help in such case.



SWITCHES AND CONTROLS FOR RMT-80/RMT-80L

(1) Standby Button

Depress this button to turn on the tuner. When it is turned on, the dial scale will light up. Pressing the button a second time will turn off the unit.

(2) Dial Scale

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

(3) AM/FM Selector

On model RMT-80, depress AM button to receive AM broadcast, and FM button to receive FM broadcast.

On Model RMT-80L, AM broadcast is received in either MW or LW mode. When the AM/FM selector button on the left is in released position, the unit is in the AM mode. Leave the MW/LW button on the right released to receive MW broadcast, and depress it to receive LW broadcast. When the AM/FM button is depressed, the unit receives FM broadcast irrespective of the position of MW/LW button.

(4) FM Muting/Mode Button

This button is effective only in FM reception. Leave the button in the released position during normal stereo reception. In the released position, it serves to reduce interstation noise generated when tuning in FM stations. In the depressed position, every stereo broadcasting program will be heard monaurally. Depress this button only when FM stereo reception is poor.

(5) Tuning Knob

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

(6) Stereo Indicator

This glows when an FM stereo broadcast is tuned in.

(7) Tuning Indicator

Three LEDs help achieve accurate FM tuning. When the desired FM frequency is correctly tuned in, the center LED will light up. If an LED at either side is illuminated, it means the unit is slightly mistuned. For proper tuning, bring the dial scale roughly to the desired frequency, then fine-adjust so that the center LED lights up.

OPERATING MICRO COMPONENT 80 SYSTEM

Before Operation

- Check to see that the power cord is connected correctly.
- Check to see that all audio components are correctly connected.

A. Playing the turntable

1. Depress PHONO button of the function selector on RMA-80.
2. Depress POWER button on RMA-80.
3. Start playing the turntable, according to the instructions provided with the turntable.
4. Raise the volume on RMA-80 to the desired level.

B. Operating AM/FM tuner RMT-80

1. Depress TUNER button of the function selector on RMA-80.
2. Turn on POWER switch of RMA-80 and STANDBY button of RMT-80.
3. On model RMT-80, depress AM button to receive AM broadcast, and FM button to receive FM.

On Model RMT-80L, AM broadcast is received in either MW or LW mode. When the AM/FM selector button on the left is in released position, the unit is in the AM mode. Leave the MW/LW button on the right released to receive MW broadcast, and depress it to receive LW broadcast. When the AM/FM button is depressed, the unit receives FM broadcast irrespective of the position of MW/LW button.

4. Raise the volume on RMA-80 to the desired level.

C. Operating cassette deck RMD-80

1. Depress TAPE button of the function selector on RMA-80.
2. Turn on POWER switch of RMA-80 and STANDBY button of RMD-80.
3. Set the tape selector and Dolby NR switch on the deck according to the type of tape to be used.
4. Load the cassette tape, and depress PLAY button on the deck.
5. Raise the volume on RMA-80 to the desired level.

D. Recording from tuner or turntable

The Function Selector buttons on RMA-80 are used in selecting the signal source for recording. The signal of the selected source will appear at TAPE OUT terminal on the rear panel of RMA-80. Use PHONO button to record signal from the turntable; and TUNER button to record signal from the tuner.

1. Play the desired source: tuner or turntable. (See sections A and B.)
2. Select the appropriate Tape Selector button on RMD-80 according to the type of tape used. Depress Dolby NR switch if you wish to record through Dolby NR circuit.
3. Turn on the POWER switch on RMD-80.
4. Load the cassette tape. Depress PAUSE button.
5. Then depress REC and PLAY buttons simultaneously. Now the deck is in "stand-by" condition, ready to start recording.
6. Adjust the recording level by turning the REC LEVEL control clockwise so that the level indicator reading does not exceed 0dB position frequently, or only very briefly. (See figure.)
7. Press the PAUSE button to start the tape, and recording will begin.



REC LEVEL CONTROL

(RMD-80)

- To make live recording using microphones, plug microphones into the microphone (MIC) jacks on the front panel of RMD-80, and then follow steps 2 through 7 above.
- When recording from tuner or turntable, tone, balance and volume controls and loudness button on RMA-80 may be used as desired; manipulating those controls and button will have no effect on the recording signal.
- Before recording, be certain that the safety tabs on the cassette tape are not broken.

SPECIFICATIONS

FM SECTION

Usable Sensitivity	Mono	11.2dBf (2.0 μ V/300 ohms)
	Stereo	20.0dBf (5.5 μ V/300 ohms)
50dB Quieting Sensitivity	Mono	15.2dBf (3.2 μ V/300 ohms)
	Stereo	36.0dBf (35 μ V/300 ohms)
Signal-to-Noise Ratio	Mono	75dB
(at 65dBf)	Stereo	65dB
Distortion (at 65dBf)		
100Hz . . . . .		.0.1% (mono)/0.25% (stereo)
1kHz . . . . .		.0.1% (mono)/0.25% (stereo)
6kHz . . . . .		.0.2% (mono)/0.35% (stereo)
Frequency Response . . . . .		.30 to 15,000Hz +1.0dB, -1.5dB
Capture Ratio . . . . .		.1.0dB
Alternate Channel Selectivity . . . . .		.60dB
Spurious Response Ratio . . . . .		.70dB
Image Response Ratio . . . . .		.40dB
IF Response Ratio . . . . .		.75dB
AM Suppression Ratio . . . . .		.55dB
Stereo Separation . . . . .		.45dB (1kHz), 35dB (30 to 15,000Hz)
Subcarrier Product Ratio . . . . .		.45dB
SCA Rejection Ratio . . . . .		.70dB
Antenna Input . . . . .		.300 ohms balanced, 75 ohms unbalanced

AM SECTION

Sensitivity	MW: 200 μ V/m (IHF, ferrite antenna)
	LW: 600 μ V/m (RMT-80L)
Selectivity . . . . .	.35dB
Signal-to-Noise-Ratio . . . . .	.50dB
Image Response Ratio . . . . .	.50dB
IF Response Ratio . . . . .	.40dB
Antenna . . . . .	.Built-in ferrite loopstick antenna

MISCELLANEOUS

Power Requirement . . . . .	.Power supplied from the amplifier RMA-80 (see instructions for power supply connection)
Dimensions (overall) . . . . .	.279 (W) x 64 (H) x 206 (D)mm 11" (W) x 2-1/2" (H) x 8-1/16" (D)
Weight (net) . . . . .	.2.2kg 4.85 lbs.

Note: Specifications subject to change without prior notice.