

owner's manual

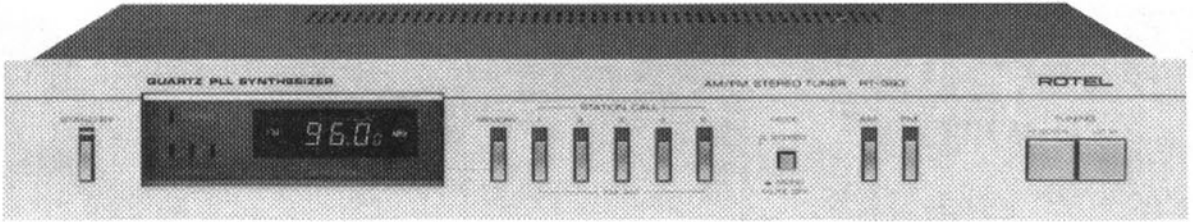


PHOTO: RT-560

Quality. Uncompromised.

ROTEL[®]

RT-560

QUARTZ PLL SYNTHESIZER
AM/FM STEREO TUNER

RT-560L

QUARTZ PLL SYNTHESIZER
MW/LW/FM STEREO TUNER

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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

AM/FM STEREO SYNTHESIZER TUNER RT-560 MW/LW/FM STEREO SYNTHESIZER TUNER RT-560L

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.

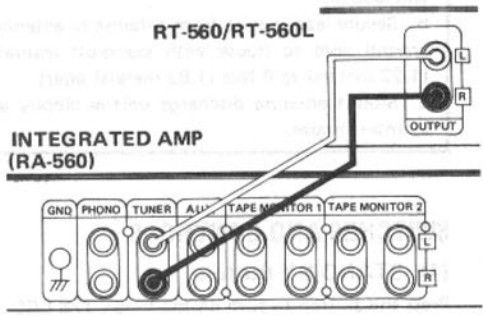
We hope you will enjoy top-notch performance for many years to come.

BROWN must be connected to the terminal which is marked with the letter L or coloured BROWN or RED.

CAUTION
As long as the power cord is plugged into an AC outlet, power is supplied to the unit regardless of the setting position of the Standby Button.

CONNECTION WITH INTEGRATED AMP OR PREAMP

Using RCA pin cords, securely connect the OUTPUT terminals on the rear panel of the unit to the TUNER (or AUX) terminals of amplifier. Make absolutely sure that RIGHT terminal of one unit is connected to the RIGHT terminal of the other, and LEFT to LEFT.



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.

ANTENNA INSTALLATION 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.

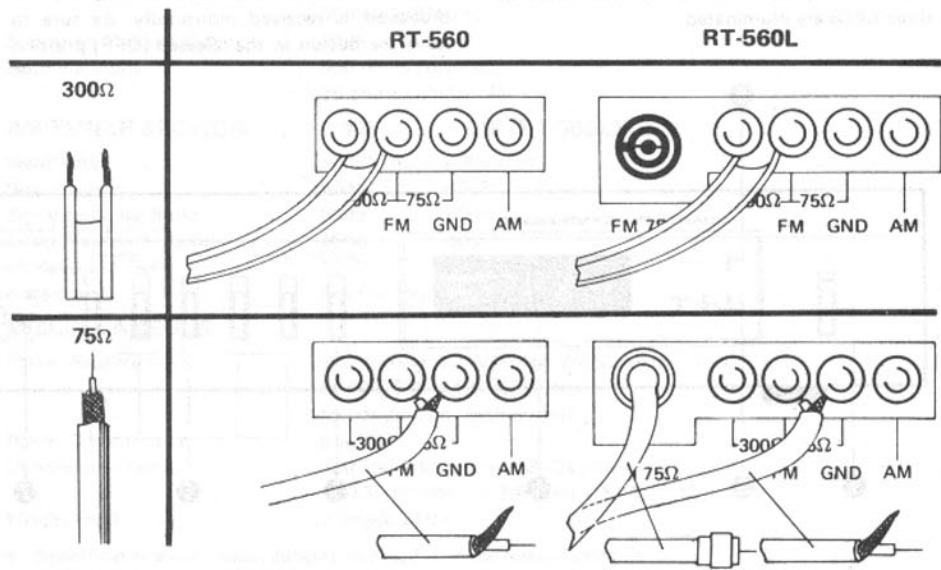
1. Be sure to select the most appropriate type of antenna for the signal reception conditions in your area.
2. A 75-ohm coaxial cable is recommended in connecting the antenna to the unit.
3. Set the antenna in a position as high as possible if buildings, mountains or other obstructions nearby affect reception.
4. Connect the 75-ohm coaxial cable to the antenna terminals located on the rear panel, as shown in the figure.

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 unswitched AC outlet.

Note that when you plug the power cord into a switched outlet on amplifier, the stored memory will be lost three days after switching off the amplifier.

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:

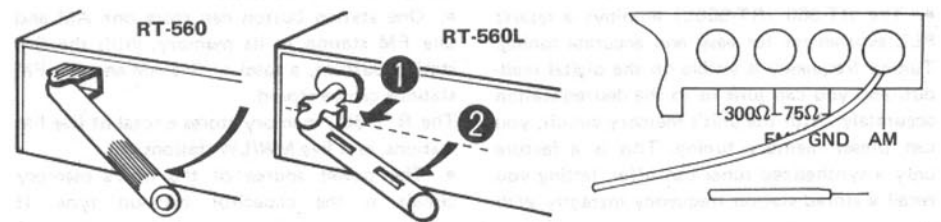
- BLUE: NEUTRAL
- BROWN: LIVE

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

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."

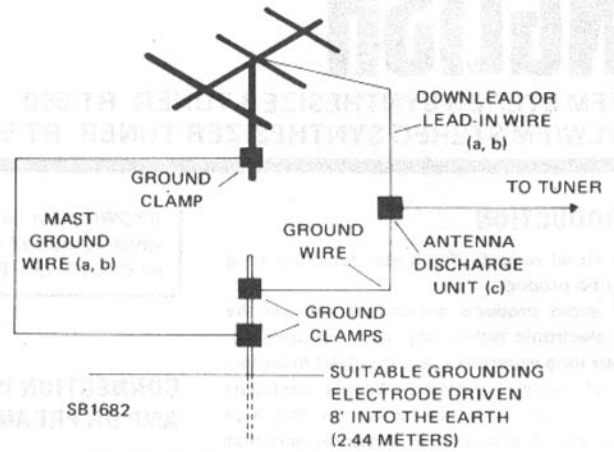


EXCLUSIVE NOTES FOR THE U.S.A.

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.

- 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

(1) STAND BY Button

Press this button to turn on the tuner. The LED indicator above the button glows. In the released position, the unit is in the standby state and power is supplied to the memory circuit from the AC mains.

(2) 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 though the unit is tuned to a stereo program.

(3) Signal Indicator

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

(4) Frequency Display

Indicates frequency currently tuned in, along with notations "FM" and "MHz" in FM reception, or "AM" and "kHz" in AM reception. The word "MEMORY" will appear when Memory Program button is pressed.

(5) Memory Program Button

To enter a given station frequency into the unit's memory circuit, press this button first, and then tap the desired station button.

(6) Station Buttons

These buttons are used to tune in to desired preset stations, or to preset given station frequencies in unit's memory.

(7) FM Mode/Muting Button

When this button is pressed to ON, any FM broadcast is received monaurally. Be sure to leave the button in the released (OFF) position

during normal stereo FM reception. In the OFF position, interstation noise generated when tuning in an FM station will be reduced.

(8) AM/FM Selector

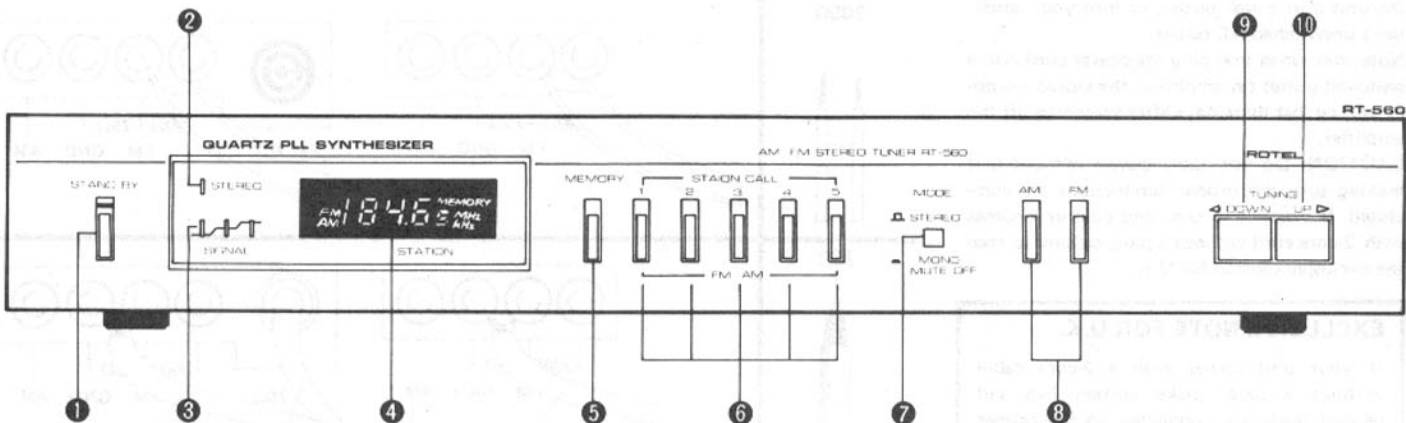
Press AM button for AM signal reception, and FM button for FM signal reception. RT-560L gives AM reception in either MW or LW mode. Depress MW button for middle wave reception, and LW button for long wave reception.

(9) Tuning Button, DOWN

Used when tuning in a station whose frequency is lower than the reading on the frequency display.

(10) Tuning Button, UP

Used when tuning in a station whose frequency is higher than the reading on the frequency display.



OPERATION

- The RT-560 (RT-560L) employs a quartz PLL synthesizer for easy and accurate tuning. Tuning frequency is visible on the digital read-out, and you can tune in to the desired station accurately. With the unit's memory circuit, you can preset memory tuning. This is a feature only a synthesized tuner can offer, letting you recall a stored station frequency instantly with

a single touch of a button.

- One station button can store one AM and one FM station in its memory. With the five station buttons, a total of five AM and five FM stations can be stored.

The RT-560L memory stores a total of five FM stations, and five MW/LW stations.

- The power source of the unit's memory circuit is the capacitor back-up type. If

power cord is unplugged, or if there is a power failure, the electrical energy accumulated in the capacitor while the unit was ON will retain the frequencies stored in the memory circuit for three days. (The memory is retained as long as the power cord is plugged into an AC outlet, regardless of the position of the STAND BY button.) If you leave the power cord unplugged for over three days, the stored frequencies will

be lost.

1. Before commencing operation, check to make sure all antenna, amplifier and power connections are properly made.

2. Set the volume control on the amplifier to minimum position, and amplifier function switch to TUNER position (or to AUX position if the tuner is connected to AUX terminal).

3. Turn on the amplifier and press the STAND BY button on the tuner.

4. Depress FM or AM button of the tuner function selector.

On RT-560L, select among FM, MW, and LW buttons.

5. Tune in to the desired station by means of tuning or station buttons. (See section on "Tuning".)

6. Raise the volume to the desired level, and enjoy listening.

Tuning

The unit is designed to permit two modes of tuning: manual tuning and preset memory tuning.

• Manual tuning

A tap of the tuning button, DOWN or UP, will shift the tuning frequency in specified increments. If you keep the button pressed down, the frequency will change continuously. Release the button to stop frequency change.

• Preset memory tuning

Tune in to the desired station by means of the tuning buttons. Tap the Memory Program button. The word "MEMORY" will appear on the frequency display. Then, tap any station button, 1 through 5, to enter the frequency into the memory circuit. Thereafter, you may recall the same frequency any time simply by tapping the same button.

Note that the word "MEMORY" remains on the display panel for several seconds only; you should tap the appropriate station button to enter the station frequency during that time. If the word "MEMORY" disappears before you tap the station button, entry cannot be made. In that case start again, following the above procedures. The above procedures should also be followed to change the station preset for a given station button.

Note: If you have turned off the unit, and turn it on again, the unit will tune in to the station frequency to which it was tuned immediately before turn-off.

HUM AND NOISE

Hum often accompanies activation of power supply. If hum is generated, try replugging the power cord into the wall outlet, reversing the plug this time. Other possible causes of hum include improper routing of connecting cords (try changing cord position), or incorrect pin-plug insertion. Check all connections if hum persists.

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 will best remedy such a situation.

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

FM TUNER SECTION

Usable Sensitivity (mono)	11.2dBf/2.0μV
50dB Quieting Sensitivity:	
Mono	15.2dBf/3.0μV
Stereo	37.2dBf/40μV
Signal-to-Noise Ratio (at 65dBf):	
Mono	75dB
Stereo	73dB
Harmonic Distortion (at 65dBf):	
100Hz	0.08% (mono), 0.1% (stereo)
1kHz	0.08% (mono), 0.2% (stereo)
6kHz	0.2% (mono), 0.3% (stereo)
Frequency Response	30 to 15,000Hz, +0dB, -2dB
Capture Ratio	1.0dB
Alternate Channel Selectivity	
(±400kHz)	60dB
Spurious Response Ratio	90dB
Image Response Ratio	70dB
IF Response Ratio	110dB
AM Suppression Ratio	58dB
Muting Threshold	15μV
Stereo Separation	100Hz/1kHz/10kHz, 45dB/48dB/40dB
Subcarrier Product Ratio	40dB
Antenna Input	300 ohms balanced, 75 ohms unbalanced

AM TUNER SECTION

	MW	LW (RT-560L)
Sensitivity	300μV/m	800μV/m
Selectivity	40dB	40dB
Signal-to-Noise Ratio	50dB	50dB
Image Response Ratio	40dB	40dB
IF Response Ratio	30dB	50dB
Antenna	Built-in ferrite loopstick antenna	

MISCELLANEOUS

Power Requirement	120V/60Hz, 220V/50Hz, 240V/50Hz or 120, 220, 240V/50-60Hz (depending on destinations)
Power Consumption	.9 watts
Dimensions (overall)	.430 (W) x 91 (H) x 293 (D) mm 16-15/16" (W) x 4-3/8" (H) x 11-1/2" (D)
Weight (net)	3.9kg/8.58 lbs.

- Specifications and design subject to possible modification without prior notice.



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