

ENGLISH

13. Cleaning—The appliance should be cleaned by the manufacturer.

14. House Wiring—The house wiring should be checked by a qualified electrician.

15. Object and Liquid Entry—Care should be taken so that objects do not fall and liquids are not spilled into the appliance.

ROTEL *hifi*

AM/FM STEREO TUNER

RT-950BX

owner's manual

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICE TO QUALIFIED SERVICE PERSONNEL.

1. Connecting the Power Cord—Always handle the power cord with care. Ensure to connect the power cord to a properly grounded outlet.

2. Do not Open the Cabinet—Do not attempt to open the cabinet or remove any parts from the appliance.

3. Grounding—The appliance is grounded through the power cord. Do not use a two-pronged power cord.

4. Do not Open the Cabinet—Do not attempt to open the cabinet or remove any parts from the appliance.

5. Grounding—The appliance is grounded through the power cord. Do not use a two-pronged power cord.



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.

1. Read instructions—All the safety and operating instructions should be read before the appliance is operated.

2. Retain instructions—The safety and operating instructions should be retained for future reference.

3. Read warnings—All warnings on the appliance and in the operating instructions should be followed.

4. Power and Voltage—The appliance should not be used near water and moisture.

5. Care and Cleaning—The appliance should be cleaned by the manufacturer.

6. Object and Liquid Entry—Care should be taken so that objects do not fall and liquids are not spilled into the appliance.

7. Ventilation—The appliance should be placed in a well-ventilated area.

8. Installation—The appliance should be installed by a qualified electrician.

9. Power Switch—The appliance should be connected to a power supply only of the type specified in the operating instructions.

10. Grounding—The appliance is grounded through the power cord. Do not use a two-pronged power cord.

11. Grounding—The appliance is grounded through the power cord. Do not use a two-pronged power cord.

12. Power Cord—The power cord should be connected to a properly grounded outlet.

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18. Grounding—The appliance is grounded through the power cord. Do not use a two-pronged power cord.

SAFETY INSTRUCTION

1. **Read Instructions**— All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions**— The safety and operating instructions should be retained for future reference.
3. **Heed Warnings**—All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions**— All operating and use instructions should be followed.
5. **Water and Moisture**— The appliance should not be used near water – for example, near a bathtub, washbowl kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. **Carts and Stands**—the appliance should be used only with a cart or stand that is recommended by the manufacturer.

PORTABLE CART WARNING

S3125A
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. **Wall or Ceiling Mounting**— The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation**—The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat**— The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources**— The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Grounding or Polarization**— The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
12. **Power-Cord Protection**— Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. **Cleaning**— The appliance should be cleaned only as recommended by the manufacturer.
14. **Nonuse Periods**— The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
15. **Object and Liquid Entry**— Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
16. **Damage Requiring Service**— The appliance should be serviced by qualified factory authorized service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **Servicing**— The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified factory authorized service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

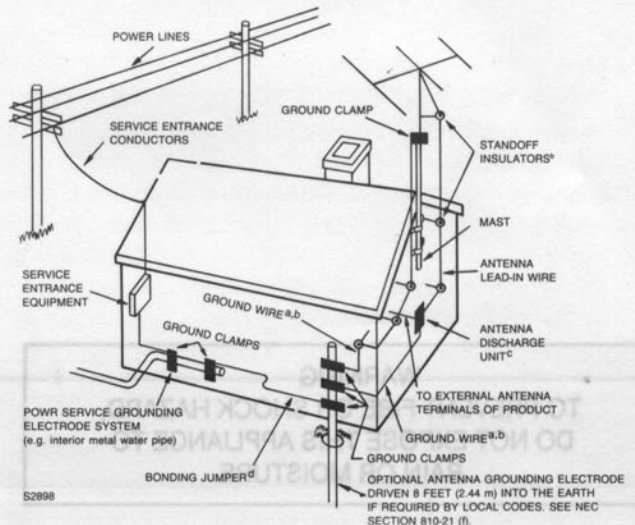


Power Lines – An outdoor antenna should be located away from power lines.

Outdoor Antenna Grounding – If an outside antenna is connected to the receiver, 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. 70–1984, 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.

- a– Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.
- b– Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4–6 feet (1.22 – 1.83 m) apart.
- c– Mount antenna discharge unit as close as possible to where lead-in enters house.
- d– Use jumper wire not smaller than No. 6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



FOR U.S.A. ONLY

ENGLISH

AM / FM STEREO TUNER RT-950BX

A WORD FROM ROTEL

Rotel take this opportunity to thank you for choosing our equipment for your home entertainment.

Rotel equipment represents a very high state of the art in sound reproduction, as the result of our everlasting determination to achieve the truly hi-fi performance. Please enjoy the sound Rotel have created for many years to come.

To make sure you get the most out of your equipment, please read this owner's manual carefully before you attempt any connections.

BEFORE CONNECTIONS

1. Place for Installation

Ensure to place the unit in a flat surface where it is free from humidity, vibration, high temperature and not exposed to direct sunlight. Also, be careful not to place the unit in a highly enclosed area without adequate ventilation around the unit. Do not block the ventilation openings at the top and the bottom of the unit to prevent excessive heat built up.

2. Electrical Requirements

Your equipment has been designed to be powered by the local AC voltage. Check the setting of your unit by looking at the rear panel name plate. Never try to plug the unit into an outlet of higher voltage, as this causes a serious fire hazard. Consult your dealer if in doubt.

3. Connecting the Power Cord

Always handle the Power cord with care. Ensure to connect the cord to the household wall outlet. When plugging and unplugging make sure the power switch on the unit is turned off.

4. Do not Open the Cabinet

There are no user-serviceable parts inside the cabinet of the unit. Do not attempt to open the cabinet or tamper with

EXCLUSIVE NOTE FOR U.K.

If your unit comes with a 2-core mains lead without a plug, neither core is to be connected to the earth terminal of a three pin plug, make certain that they are connected, according to the following instruction, 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.

the internal components. If water or foreign object falls inside the unit by accident, disconnect the power cord immediately and consult a qualified electrician or your dealer.

5. Cleaning Your Unit

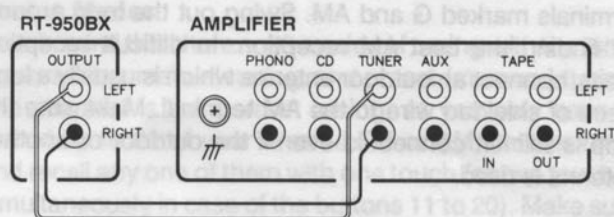
If your unit becomes dirty, wipe it gently with a soft, dry cloth. Never use solvents of any kind.

CONNECTIONS

1. Connecting to Integrated Amplifier or Preamplifier

a) Connect the OUTPUT terminals on the back of the tuner to the TUNER inputs on the rear of your integrated amplifier or preamplifier using the proper interconnecting cords supplied with the tuner. Make sure the Right (RED) and the Left (WHITE) channels are correctly connected.

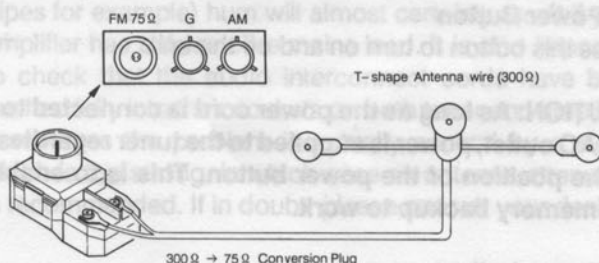
b) Note you may connect the tuner to the AUX inputs on your integrated amplifier or preamplifier, if necessary.



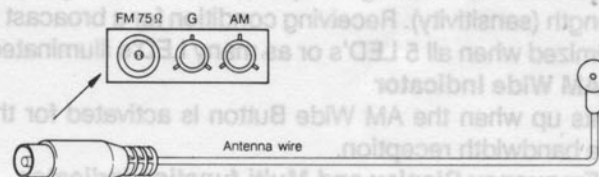
2. Installing and Connecting Antenna

a) Indoor FM Antenna – The attached indoor antenna wire will suffice for proper, quiet broadcast reception in most good reception areas. To install it, connect the antenna to the FM Antenna terminals (75 ohm) on the back of the tuner. Then, stretch the wire out and secure along a wall or where reception is optimal.

● Indoor T-shap Antenna wire (Applicable for U.S.A., Canada or where approved to the usage)

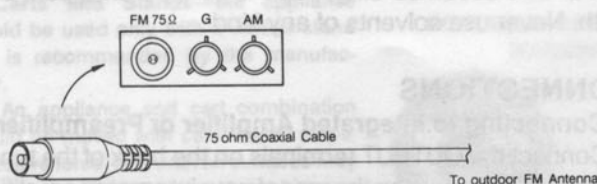


● Indoor Antenna wire (Applicable for European version)

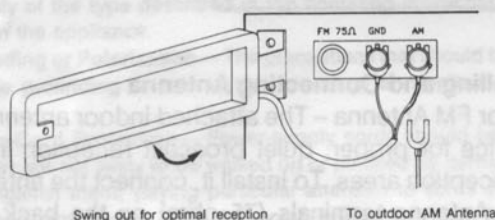


b) Outdoor FM Antenna – In areas of average to weak reception conditions, an outdoor antenna mounted on the roof or top of the building may be necessary for best results. When using such outdoor type antenna, ensure remove the indoor antenna. A 75-ohm coaxial cable is usually recommended. If using this type cable, properly hook it up to the designated antenna terminals on the back of the tuner.

When in doubt on the FM outdoor antenna system, consult your dealer.



c) AM Antenna – The loop antenna is provided for AM reception. Lock the loop onto the loop holder on the back of the tuner, and connect the two ends to the antenna terminals marked G and AM. Swing out the loop around for finding the best AM reception. In difficult reception areas, connect an outdoor antenna which is usually a long piece of shielded wire to the AM terminal. Make sure the loop is still left connected even if the outdoor or another antenna is used.



SWITCHES AND CONTROLS

(1) Power Button

Press this button to turn on and off the unit.

CAUTION: As long as the power cord is connected to a live AC outlet, power is supplied to the tuner regardless of the position of the power button. This is to enable the memory backup to work.

(2) Power Indicator

Glowes when power is turned on with the power button.

(3) Signal Indicator

The 5-LED indicator lights up to show incoming signal strength (sensitivity). Receiving condition for a broadcast is optimized when all 5 LED's or as many LED's illuminated.

(4) AM Wide Indicator

Lights up when the AM Wide Button is activated for the wide bandwidth reception.

(5) Frequency Display and Multi-function Indicator

1) The frequency of the station selected is displayed. The band chosen, FM or AM, is also shown together with MHz

for FM or KHz for AM (both MW and LW) on the frequency display.

2) The word AUTO lights up when the Auto Tuning is activated.

3) The word MEMORY lights up while the Memory button is activated.

4) The word STEREO glows when stereo broadcasting station is tuned in and when the Muting Off/ Mono button is deactivated for the stereo operation. It will also not light up for very weak stereo signals which the tuner will not receive in stereo.

5) The center TUNED indicator lights up when a station is properly tuned.

6) The channel (CH) indicator shows the numerical position of the preset station selected.

(6) Station Buttons

Pressing one of these buttons will tune the tuner to the frequency stored in the memory. Pressing the Memory button followed by one of these buttons will store the frequency displayed in that memory. It is possible to store up to 20 AM or FM stations in the memory. The channel indicator in the display will show the number of the preset button selected.

CAUTION: If the AC power is removed from the tuner for more than 3 days, the frequencies stored in the memories will be lost.

NOTE: Each time you switch the tuner on, it will tune to the station frequency to which it was previously tuned.

(7) Memory Button

Stores frequencies in the tuner's memory. To store a frequency first tune to the desired broadcast program using the Tuning button. Then press the Memory button followed by one of the station buttons marked 1 to 10 and 11 to 20 with +10 button. Although there are only 10 buttons marked for positions 1 to 10, the +10 button converts the buttons to positions 11 to 20. So the buttons have double functions, e.g., the button 1 is also 11 when used with the +10 button.

The Memory indicator in the display will light up during this process. Note that once the Memory button is pressed, you must press the required station button within a few seconds to store the station frequency. If the Memory indicator is no longer light, you must press the Memory button again before storing the required frequency.

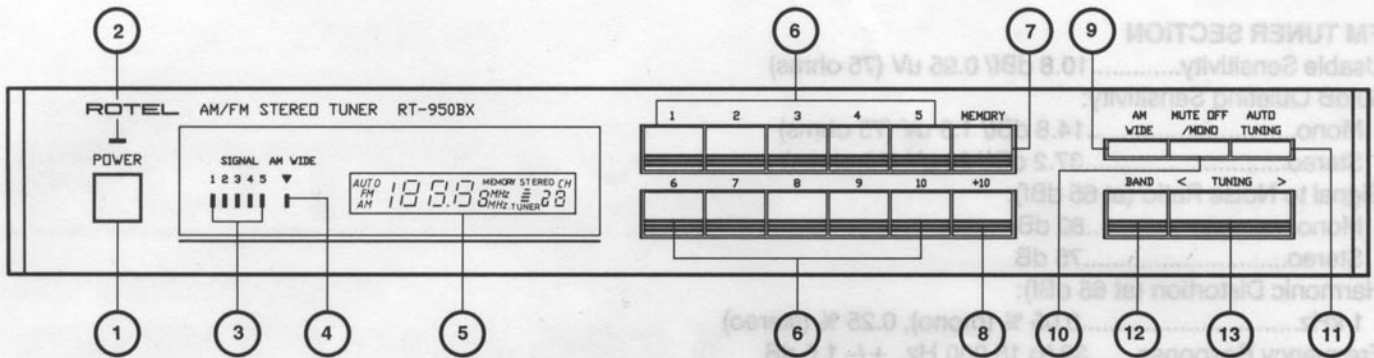
For example, to store desired local station in the station button 12, first tune in to the station, press the Memory button, then press and hold the +10 button while pressing the station button 2.

(8) +10 Button

The tuner can store up to 20 different frequencies in its memory. The first 10 are selected (or stored) just by pressing the appropriate button. The second 10, numbers 11 to 20, are selected by pressing and holding the +10 button while pressing the station button simultaneously. Consider the +10 button like the shift button for capital letters on a typewriter.

(9) AM Wide Button

Press the Button to the wide position for a wider AM bandwidth to enjoy better AM sound during normal, good reception conditions. The AM WIDE indicator will light up



that the wide position is selected. If there is too much hiss or noise from neighboring stations, etc., press the Button to deactivate the Wide circuit and back to the normal bandwidth position for reducing such noise to negligible.

(10) Mute Off/ Mono Button

Allows selection of FM mono or stereo operation. When the Mono position is chosen, any broadcast will be received monaurally and the muting switch for suppressing interstation noise will be deactivated to pull weak signals which are normally cut off during the stereo operation. For reception of weak and noisy signals, use the Mute Off/ Mono position. For normal use, choose the stereo operation by deactivating the Button. In this position, stereo broadcasts will be provided in stereo and the STEREO indicator will light up. When mono programs are broadcasted, mono sound is provided and the STEREO indicator will not light.

(11) Auto Tuning Button

Permits choose auto or manual tuning. In the auto mode, pressing either end of the Tuning button will cause the tuner to increase or decrease, depending on which end of the Tuning button pressed, the received frequency until a reasonably strong signal is received. At this point the tuning will stop automatically.

In this mode, the AUTO indicator will light up. In the manual mode, pressing either end of Tuning button causes the tuner to increase or decrease the received frequency only for as long as the Button is depressed.

NOTE: Auto tuning does not operate for LW band.

(12) Band Button

Allows select reception on FM or AM (MW or LW in case of the tuner with both MW and LW).

(13) Tuning Button

Allows to tune in frequencies. Press the right side marked > to increase the frequency and the left side marked < to decrease it.

WORDS ON OPERATIONS

Precautions

1. Before commencing operation, check to see if all connections are properly made.
2. Always ensure to set the Volume control of the connected integrated amplifier or peramplifier to the minimum position before turning on the Power switch. Raise the volume level after the desired station is tuned in.

Memory Backup

As explained above, the memory for the preset stations is retained as long as the power cord is plugged into an AC outlet, regardless of the position of the Power button. However, if you leave the power cord unplugged for over three days, or if there is a power failure for over three days, the stored frequencies will be lost.

In such cases, the operation for storing frequencies in the memory have to be done again from the beginning.

Tuning Modes

Bear in mind that there are 3 modes of tuning with the tuner : auto tuning, manual tuning, and preset (memory) tuning. The simplest is the pereset tuning, as you only have to stored up to 20 of your favorite FM or AM stations once and recall any one of them with one touch (or two touches simultaneously in case of the buttons 11 to 20). Make sure to learn the proper method for the storage in the memory as instructed above.

HUM AND NOISE

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

Normally, hum is rarely associated with a faulty tuner, and the most likely cause lies in the installation. If any part of the antenna is in contact with a ground point (copper water pipes for example) hum will almost certainly result if your amplifier has a three core mains lead. It is also important to check that the audio interconnect cords have been pushed fully into their sockets on both tuner and amplifier. Sometimes the problem is actually caused by a signal which is too strong, in which case an antenna attenuator is recommended. If in doubt, please consult your dealer.

SPECIFICATIONS RT-950BX

FM TUNER SECTION

- Usable Sensitivity.....10.8 dBf/ 0.95 uV (75 ohms)
- 50 dB Quieting Sensitivity:
 - Mono.....14.8 dBf/ 1.5 uV (75 ohms)
 - Stereo.....37.2 dBf/ 20 uV (75 ohms)
- Signal to Noise Ratio (at 65 dBf):
 - Mono.....80 dB
 - Stereo.....75 dB
- Harmonic Distortion (at 65 dBf):
 - 1 kHz.....0.05 % (mono), 0.25 % (stereo)
- Frequency Response.....30 to 15,000 Hz, +/- 1.5 dB
- Capture Ratio.....1.0 dB
- Alternate Channel Selectivity:
 - (+/- 400 kHz).....63 dB
- Spurious Response Ratio...95 dB
- Image Response Ratio.....75 dB
- IF Response Ratio.....95 dB
- AM Suppression Ratio.....60 dB
- Stereo Separation:
 - 100 Hz/ 1 kHz/ 10 kHz...43 dB/ 46 dB/ 38 dB
- Subcarrier Product Ratio...60 dB
- SCA Rejection Ratio.....70 dB
- Output Level.....1.0 V
- Antenna Input.....75 ohms unbalanced

AM TUNER SECTION

- | | MW | LW |
|-----------------------------|--------------|-----------|
| Sensistivity..... | 350 uV/ m | 750 uV/ m |
| Selectivity: | | |
| Wide | 27 dB | 25 dB |
| Narrow | 42 dB | 40 dB |
| Signal to Noise Ratio | 55 dB | 55 dB |
| Image Response Ratio | 40 dB | 40 dB |
| If Response Ratio | 60 dB | 60 dB |
| Antenna..... | Loop Antenna | |

MISCELLANEOUS

- Power Requirement.....120 V/ 60 Hz, 220 V/ 50 Hz, 240 V/ 50 Hz (depending on destinations)
- Power Consumption.....10 watts
- Dimension (overall).....440 (W) x 72 (H) x 284 (D) mm
17-3/8" x 2-7/8" x 11-1/4"
- Weight (net).....3.6 kg / 7.92 lbs

- Specifications and design subject to possible modification without notice.

(2) Power Indicator

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(3) Signal Indicator

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(4) AM Wide Indicator

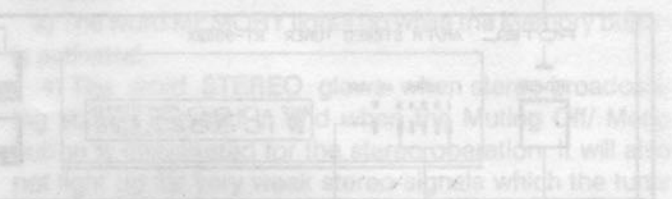
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(20) The word AUTO lights up when the Auto Tuning is activated.

(21) The word AUTO lights up when the Auto Tuning is activated.

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(27) The word AUTO lights up when the Auto Tuning is activated.

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