



INSTALLATION AND OPERATION INSTRUCTIONS

MODEL 751 SOLID STATE FM TUNER

Model 751 is a Hi Fidelity Solid State FM Tuner designed for operation with FM wireless microphones or electric guitar transmitters using the 88-108 mc band. It may also be used as FM music tuner for background music installations in hotels, motels, apartment houses, or commercial buildings. The Tuner employs a center scale meter for indication of precise tuning, and is supplied with a plug-in telescopic antenna.

UNPACKING:

The unit is to be removed carefully from the carton and inspected for any possible damage in transit. If there is any evidence of any damage which might have occurred in shipment, notify your dealer at once, or the transportation company which delivered it. Claims for damage sustained in transit must be made upon the Carrier. Save all packing material for inspection by the claim agent who will furnish you with the proper forms and will also give you the necessary instructions for filing a claim. In addition to the Unit, there should be a warranty card included in the carton.

To insure proper servicing and to protect your rights under the warranty, be sure to fill in the warranty registration card without delay and mail to the factory.

WARRANTY

This unit has been very carefully inspected and should require no further service. Each unit is warranted to be free from defects in material and workmanship under normal use and service for a period of one year from date of delivery to the original purchaser. If this unit appears to be defective, the factory will repair any unit returned within said one year, providing all transportation charges are pre-paid, and which our examination shall disclose to our satisfaction to be defective.

This Warranty does not include free labor, nor is it applicable to any unit which shall have been subject to accident, tampered with, mis-used, abused, or altered in any manner whatsoever. Further, this Warranty shall not apply to any unit which has been connected improperly.

It is recommended that any unit on which service is required, be processed through your dealer wherever possible.

This Warranty is expressly in lieu of all other Warranties, expressed or implied, and of all other obligations or liabilities on our part. We neither assume nor authorize any other person to assume for us any other liability in connection with the products manufactured by Trutone Electronics, Inc.

INSTALLATION:

Because of its attractive appearance, the Tuner may be placed on a table or shelf. DO NOT PLACE it on top of vacuum tube equipment. DO NOT STORE OR OPERATE it in areas where the ambient temperature exceeds 140 degrees Fahrenheit. If installed in a cabinet, ample ventilation must be allowed around the unit.

Plug the AC line cord in any outlet furnishing 105 to 120 volts, 60 cycles AC.

FOR MOBILE OPERATION, THE TUNER CAN BE INSTALLED ONLY IN VEHICLES WHICH HAVE A POSITIVE (+) GROUND, OTHERWISE THE TUNER WILL NOT WORK.

For portable installation, the tuner will operate from any battery or power pack which will deliver 12V DC at 15MA.

CONNECTIONS

All connections are made on the rear panel of the tuner. The two output jacks are marked "Flat" and "De-emphasis." The jack marked De-emphasis is used to connect Model 751 to an amplifier when the tuner is used for FM broadcast reception. Connection is made to the jack marked Flat when the tuner is used for wireless microphone reception. The jack marked Flat may also be used for connecting to a multiplex converter to receive simultaneous signals on both FM and multiplex broadcast, or for multiplex stereo reception.

For use with a 12V battery or DC power supply, disconnect the jumper between the - and + terminals and connect the DC power source to these terminals. **NOTE:** The positive (+) terminal is connected to chassis ground. When returning the tuner to operation on 120V AC, be sure to replace a jumper across these two terminals.

When the tuner is connected to a 12 volt D.C. power supply, the "On-Off" switch will function; however, the dial light bulbs will not go on.

The tuner is supplied with a plug-in telescopic antenna for use when receiving from a wireless microphone. This antenna should be inserted through the hole on the top of the cabinet into the connector on the antenna terminal strip. For best reception, the other antenna terminal should be grounded.

The operating noise-free range of Model 751 is dependent on the wireless microphone transmitter with which the Tuner is to be used. Good operation may be accomplished up to 50 feet and more subject to terrain, obstacles, metal objects, electrical interference, etc.

When it is desirable to operate a wireless microphone at distances greater than 50 feet from Model 751 Tuner, it is advisable to substitute the telescopic antenna with a 28" whip antenna or folded dipole placed in the area near the wireless microphone.

When the Tuner is used as an FM broadcast receiver, a piece of wire 28" long placed horizontally may be substituted for the vertical antenna. For reception from greater distances, an external FM dipole antenna should be connected to the antenna terminals and the ground strap disconnected from the antenna terminal.

ADJUSTMENTS

WHEN USED WITH WIRELESS MICROPHONES OR WIRELESS MUSICAL INSTRUMENTS: Set both the Squelch and AFC switches to "off" position. Adjust tuner frequency with a screwdriver through the hole on the right side of the front panel to a frequency not used by a local broadcasting station, preferably on the low frequency side. Turn on the microphone transmitter and adjust its frequency to where it is heard in the amplifier's speaker. While observing the tuning meter on the front panel of the Tuner, rock the tuning adjustment with the screwdriver so that the meter needle swings from side to side. Position the meter needle to center scale. Return the AFC and Squelch switches to "on" position.

WHEN USED AS FM MUSIC TUNER: Set both the Squelch and AFC switches to "off" position. Adjust tuner frequency with a screwdriver through the hole on the right side of front panel to the frequency of the desired station. While observing the tuning meter on the front panel of the Tuner, rock the tuning adjustment with the screwdriver so that the meter needle swings from side to side. Position the meter needle to center scale. Return the AFC and Squelch switches to "on" position.

OPERATION

On the front of the panel are three operating controls. The slide switch at the lower left is used to turn the power on and off. The slide switch at the upper left is used to disable the "Squelch" circuitry especially during the testing and tuning process. The slide switch at the lower right is used to disable the AFC circuitry also during the testing and tuning process. Tuning is accomplished by means of a screwdriver at the right side of the front panel.

When the microphone is located too close to the speakers, an audio howl may be experienced. To eliminate this feedback it is necessary to operate the microphone at a safe distance from the speakers or to reduce the volume at the amplifier.

The function of the squelch circuitry is to eliminate the sudden background noise that appears when the wireless microphone is turned off or when it is used beyond the functional range.

The AFC circuitry is designed so that the tuner will lock on the transmitter frequency to avoid the possibility of drift. The tuning meter should be at center scale for optimum performance.

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