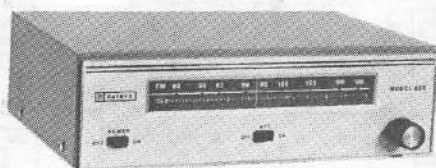


**RAYMER**

OPERATING INSTRUCTIONS



MODEL 820 FM TUNER

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS TUNER TO RAIN OR MOISTURE.

DESCRIPTION

The Raymer Model 820 is a solid state monaural FM tuner for the 88-108 MHz FM band. The tuner is provided with an AFC defeat switch for precise FM tuning. Two output jacks are provided for connection to audio amplifiers or auxiliary equipment.

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.

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 into any outlet furnishing 105 to 120 volts, 60 Hz AC.

CONNECTIONS

All connections are made on the rear of the tuner. All patchcords must be shielded cables with appropriate matching plugs and must be used when connecting the audio output of the tuner to the amplifier input or other equipment. The output level is approximately 1 volt into an impedance of 50,000 ohms or greater. The two phono jacks marked **AUDIO OUTPUT** are connected in parallel. If the two output jacks are utilized to drive two separate pieces of equipment, the input impedance of each piece of equipment should be 100,000 ohms or greater.

ANTENNA INPUTS

For normal FM reception, the short antenna lead supplied with the unit is sufficient for most locations. In the event that the tuner is located in a remote area, an external Dipole antenna will increase the number of distant stations that can be received. This external antenna is to be connected across the terminals marked **FM ANT.**

OPERATION

The front panel has 1 knob and 2 slide switches. The **POWER** switch is to turn the tuner on and off. The switch marked **AFC** is used for AFC defeat. The knob is used to tune or select the desired station. The center marking on the dial glass is a log scale for easy recording of the position of the pointer for any specific station.

AFC refers to Automatic Frequency Control and is an electronic means of keeping the receiver properly tuned to an FM broadcast station even when the tuning dial is not precisely set. However when tuning to a weak station which is adjacent to a stronger one the AFC function may tend to lock the receiver to the stronger station. In such a case the AFC switch should be placed in the **OFF** position. For very precise tuning or selection of a weak station the AFC switch should be placed in the **OFF** position while tuning. When the station is properly tuned the switch may then be returned to the **AFC** position to lock the receiver to the desired frequency.

