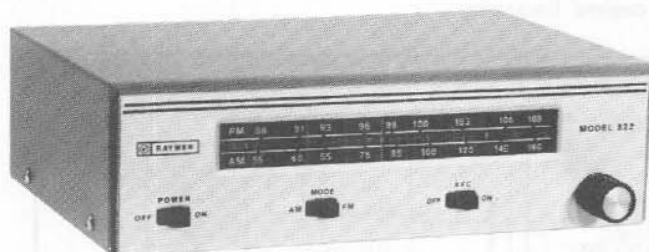




OPERATING INSTRUCTIONS



MODEL 822 AM-FM TUNER

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

DESCRIPTION

The Raymer Model 822 is a solid state monaural AM-FM tuner for the 88-108 MHz FM band and the 550-1650 KHz AM 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

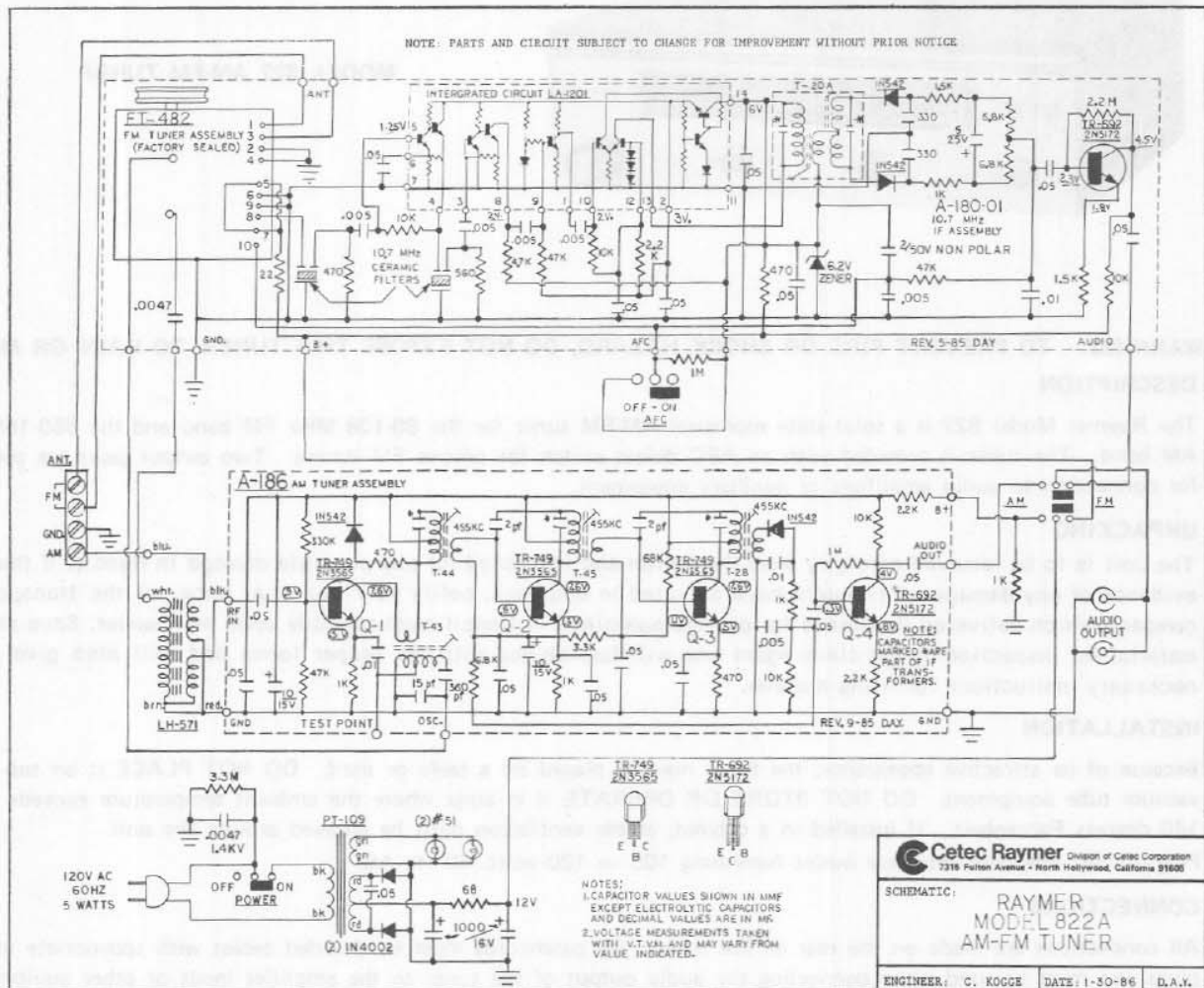
Separate antenna inputs are made available for the AM and FM portions of the tuner by means of a 4 screw terminal board. For normal FM reception, the short antenna lead supplied with the unit is sufficient for most locations. In the event that the tuner is located in a remote area, an external Dipole 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**.

For AM reception, Model 822 has a built-in Hi-Q Ferrite loopstick antenna which is all that is normally required for local AM reception. To increase the reception of weak AM stations in the fringe area, it may be advisable to rotate the loopstick to obtain the loudest signal. In instances where the tuner is used inside of an all-metal building or in a weak reception area, an outside antenna is required. Connect an external antenna lead to the terminal marked **AM ANT**. When an external antenna is used, a ground wire must be connected to the terminal marked **GND**, to avoid a possible shock hazard.

OPERATION

The front panel has 1 knob and 3 slide switches. The POWER switch is to turn the tuner on and off. The MODE switch is to be set to either AM or FM as desired. 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.



WARRANTY

THIS UNIT HAS BEEN VERY CAREFULLY INSPECTED AND 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 SALE TO THE ORIGINAL PURCHASER. THIS WARRANTY DOES NOT EXTEND TO ANY UNIT WHICH BEEN SUBJECT TO ABUSE, MISUSE, NEGLIGENCE, ACCIDENT, IMPROPER INSTALLATION, OR ALTERATIONS. THE OBLIGATION OF CETEC RAYMER UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OF ANY DEFECT IN MATERIAL OR WORKMANSHIP AND/OR THE REPLACEMENT OF ANY DEFECTIVE PART, PROVIDED THE UNIT IS RETURNED TO CETEC RAYMER TRANSPORTATION PREPAID.

IT IS RECOMMENDED THAT ANY UNIT ON WHICH SERVICE IS REQUIRED BE PROCESSED THROUGH YOUR DISTRIBUTOR OR INSTALLATION COMPANY 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 CETEC RAYMER.

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