



'STEREOFETIC' F. M. TUNER

SERVICING INSTRUCTIONS

The STEREOFETIC FM Tuner is best considered as four separate units:

1. The Power Supplies
2. The Front End
3. The I.F. Strip
4. The Decoder

Items 1, 3 and 4 are on printed circuit boards which can be swung up from the chassis for ease of servicing. Item 2 is located on the chassis itself.

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1. THE POWER SUPPLIES (Diagrams Pages 4 & 5)

The Tuner requires +9 volts at about 90 milliamps, and -5 volts at about 5 milliamps. Both these supplies are critical with regard to voltage level and ripple. Any variation in level of the voltage lines will cause mistuning of the oscillator in the front end, and may cause limiting of the output audio signal. Any increase in ripple will cause an increase in hum level at the output of the decoder.

The stabilisation circuit for each supply consists of a series regulator driven by a constant voltage source. Each constant voltage source consists of a zener diode which controls its own current by means of a constant current transistor feeding base current back into its own transistor feeder (e.g. VT1 is a constant source feeding base current to VT2. VT2 feeds a constant current to zener diode D3, which in turn sets up to constant current in VT1. R5 acts as a starter resistor).

The output voltage from each regulator can be adjusted by about $\pm \frac{1}{2}$ volt by varying a potentiometer which is across each zener (VR1 and VR2).

Both supplies can accept short circuits in their outputs for a few seconds without any adverse effects. Continuous short circuits will overheat the series regulators.

The voltages given on the circuit diagram refer to a 235 volt rms input voltage to the 200-250 volt tap. Other mains voltage will give different voltages for all except the +9 and -5 volt outputs. At 100 and 200 volt mains input the ripple may increase by about 30%.

DO NOT RUN THE TUNER FOR LONG PERIODS WITHOUT A FESTOON LAMP as this may cause failure of one or both of the 1,000 microfarad reservoir capacitors. This is because the festoon lamp forms a substantial part of the load on the mains transformer, and when this load is removed the voltage across the 1,000mF capacitors may rise above their maximum rating if the mains voltage is high.

2. THE FRONT END (Diagrams Pages 10, 11 & 12)

The basic front-end circuit consists of an RF amplifier, mixer and separate oscillator system. It is unconventional in that a dual-gate Field Effect Transistor is used for the mixer, and the oscillator is of the grounded collector variety. **THE POSITIONING OF COMPONENTS IN THIS PART OF THE TUNER IS CRITICAL. MOVEMENT OF ANY COMPONENT MAY CAUSE MISTUNING OR UNWANTED OSCILLATION.**

The 75 ohm coaxial socket is isolated from chassis by two 200pf capacitors to stop any chassis currents which might otherwise cause noise or interference. The RF transistor is a single gate F.E.T. to which AGC is applied when the input signal exceeds 1 millivolt. This stage can accept several hundred millivolts without overloading. Both input and output are tuned by simple LC networks, and the tuned output is fed into gate 1 of the mixer. The oscillator input is fed into gate 2 (L3 & C18 form a 10-7MHz trap to increase the mixer efficiency).

The mixer output is transformed through a double tuned 10-7MHz transformer and fed to a capacitance divider and thence to the I.F. Strip.

The oscillator feeds out about 300 millivolts rms from its capacitor at 100MHz. This decreases to about 400 millivolts at 120MHz.

The AFC rate is 2.7 millivolts per kHz change in tuning, and gives an overall AFC of $2\frac{1}{2} : 1$.

Leak Stereofetic F M Tuner Repair Manual

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