



'STEREOFETIC' F. M. TUNER

INSTALLATION • OPERATION

INSTALLING THE F.M. TUNER

1. If you have bought the 'STEREOFETIC' already installed in the standard LEAK decorative wood case the mounting of the tuner is completed.
If you have bought the 'STEREOFETIC' in chassis form it may be mounted in a LEAK tuner/amplifier wood case or on a panel of any thickness, through a cut-out of $10\frac{7}{8}'' \times 3\frac{1}{8}''$ (27.5×10 cms.). To mount on a panel: pass the body of the tuner through the cut-out until the front plate butts against the panel, then pass the U-shaped bracket over the back of the tuner and fix it by passing the wing-screw through the hole in the bracket and into the threaded hank-bush in the centre of the rear panel on the tuner. Tighten the wing-screw just enough to prevent the front plate of the tuner from slipping on the panel.

CONNECTING THE F.M. TUNER

2. The power transformer primary is wound for voltages of 100-130 and 200-250 (40 to 60 Hz). Check that the plug supplied is in the correct position for your voltage.
3. When used with a LEAK amplifier the power supply for the tuner can be obtained by inserting the 'SUPPLY POWER' plug into the 'A.C. OUTLET' socket on the back of the amplifier.
4. The tuner is earthed to its associated amplifier via the screening of the 'AUDIO OUTPUT' leads, and no additional earth connection should be made to any part of the tuner.
5. **AUDIO OUTPUTS.** The two grey screened leads marked 'LEFT' and 'RIGHT' should be plugged into the L and R 'TUNER' input sockets on your stereo amplifier.
6. The tuner is suitable for reception of mono broadcasts and stereo broadcasts using the world-wide standard GE-Zenith system of transmission. To obtain optimum results from stereo transmissions the 'AERIAL INPUT 75 OHM' socket should be fed with a strong signal. Although a short length of flex or indoor aerial may give good results from mono transmissions, to obtain the lowest background noise on a stereo transmission a correctly orientated outdoor aerial should be used.
A 300 ohm aerial may be directly connected to the 'AERIAL INPUT 75 OHM' socket without audible loss of quality.



1. 'Casual listening' tuning. Distortion less than 1% at average modulation levels.



3. Stereo 'casual' tuning. Distortion less than 1% at average modulation levels. Separation better than 24dB at 1kHz.



2. 'Hi-fi' tuning. Distortion less than .25% at average modulation levels.



4. 'Hi-fi' stereo tuning. Distortion less than .25% at average modulation levels. Separation better than 35dB at 1kHz.

OPERATING THE F.M. TUNER

CASUAL LISTENING

Push in the four buttons marked **MONO LOCK**
AFC
MUTE
POWER ON/OFF

Rotate the tuning knob until the dial pointer is near the required station. The needle of the tuning indicator should move across the black region of its scale to show that the programme is being received (Figure 1).

The best tuning point is when the tuning indicator needle is as far across towards the red region as possible (Figure 2). However, for casual listening there is no need to tune so accurately: so long as the tuning indicator needle is in the black region between the points shown in Figures 1 and 2, the quality of the signal produced by the tuner will be quite adequate.

HI-FI LISTENING

MONO

Push in the three buttons marked **MONO LOCK**
MUTE
POWER ON/OFF

Rotate the tuning knob until the dial pointer is near the required station, then tune to the centre of the received signal by ensuring that the tuning indicator needle moves to its maximum deflection. Now push in the 'AFC' button.

STEREO

Push in the two buttons marked **MUTE**
POWER ON/OFF

Tune as for mono except that the tuning indicator needle should move into the red region of its scale if a stereo signal is being received (Figures 3 and 4).

It should be realised that stereo broadcasts have a higher background noise than mono broadcasts, so some increase in hiss must be expected except in places close to stereo transmitters.

If the stereo signal has too much background hiss, this noise can be reduced by using the 'QUASI-STEREO' buttons. The hiss will be reduced progressively by using button 1, then 2, then 1 and 2. There will be no noticeable change in the stereo effect.

In some 'fringe' areas the background hiss may still be objectionable, under these conditions it can be removed only by pushing the 'MONO LOCK' button and listening to the programme monophonically.

If you only want to listen to stereo broadcasts, or want to set your tuner ready to listen to a stereo concert, push in the 'STEREO ONLY' button. Only stereo signals will now be allowed through to your loudspeakers, although the tuning indicator will still show the monophonic broadcasts as well as the stereo ones.

N.B. The 'STEREO ONLY' button will be inoperative if the 'MONO LOCK' button is also pressed.

WEAK STATION LISTENING

Push in the two buttons marked **MONO LOCK**
POWER ON/OFF

The tuner will now be very noisy between stations as you tune, but you will find that many more stations can be received than when you had the MUTE button pushed in. Some of these weaker stations will be very near on the dial to strong stations so be careful to use your tuning indicator and tune to the centre of the station you want (Figure 2). Otherwise the stronger station might intrude, or even take over from the weak station, especially if you now push the AFC button to lock on to the station you want.

Sometimes the weak stations are transmitting in Stereo, so it is worthwhile releasing the **MONO LOCK** button to check. If stereo is being transmitted, the needle should jump across into the red region (see Figure 4).

Please note that it is usually better to tune the STEREOFETIC tuner with the **MONO LOCK** button pressed in, otherwise the interstation noise might cause the tuning indicator to give false readings.

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