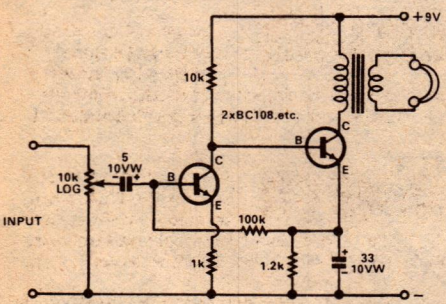
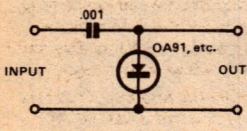
Two Stage Amplifier & RF Probe





Use this simple probe when tracing RF signals.

This simple two-stage audio amplifier with volume control has several applications. It can be used as a general purpose amplifier to amplify the output of such things as crystal sets; it can be used for tracing signals in audio circuits; and, when coupled to a suitable probe, can be used for tracing modulated RF signals.

The circuit employs just two NPN transistors, and can be built on a small piece of Veroboard. Layout is non-critical. The output transformer is a type commonly employed as a speaker transformer in valve equipment, and should have a primary impedance of 5000-7000 ohms and a secondary of 8-16 ohms.

When the amplifier is to be used for signal tracing an isolating capacitor of about 0.1uF, 400V, should be connected in series with the active input terminal (top of the 10k pot).

In order to trace modulated RF signals it is necessary to precede the amplifier with a detector or RF probe. Such a device is simplicity itself, and consists of only two components, as shown above.