Modular Tester user guide: signal tracer

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The signal tracer allows tracing of a signal, both audio or modulated RF, or to connect to other test modules like the CB microphone tester or RF probe UP to act as their external amplifier and speaker.

After power on the module shows the splash screen and goes to sleep.

Press the rotary encoder (right knob) and hold until the splash screen appears.

Press the rotary encoder to turn on the audio or mute it.

Turn the rotary encoder to select the attenuation, 0, -20, -40 or -60dB (0,10x,100x or 1000x reduction).

Turn the volume potentiometer (left knob) to set the audio level.

The input is AC coupled, the input capacitors are rated for 630V to allow tracing in old tube radios.

For the same reason the input impedance is 1 MOhm and a BNC connector is used instead of cinch, adapters are available from BNC to cinch for connection to the other (low voltage) modules.

The tracer is very sensitive and will pick up noise sources. Always start at maximum attenuation.

Use an isolation transformer if you use it on "hot" chassis radios.

Press encoder long for the menu, turn to select, press to select or toggle setting:

Return: return to main screen.

Scope on / Scope off: toggle the oscilloscope mode.

RF on / RF off: toggle the use of an RF detector circuit for modulated RF signals.

Go to sleep: put the module to sleep.

In scope mode an oscilloscope screen is shown, same functions as the normal screen.

Calibration procedure

There is one point of calibration, the bias of the ADC circuit.

Adjust for 1.6V at pin 14 of U4.



