

HT-400 Circuit Description

AUDIO CIRCUIT

The audio signal is injected via the microphone sensor into the audio circuit composed of the IC 2 and IC 3. The level of the output signal is controlled by the resistors VR 1 and switch K2.

Tone Code Signal CIRCUIT

The Tone Squelch Signal is injected via the transistors Q4, Q5, crystal Y1 which produced 32.768KHz Signal. The Level of the output signal is controlled by the VR2.

MODULATOR CIRCUIT

The modulator circuit is a direct FM type built around the local oscillator controlled by D1 , crystal Y2. Transistor Q6,Q7,Q8,Q9..The modulated output from the oscillator is sent to the RF amp.

RF PRE-AMPLIFIER & FINAL AMPLIFIER

One transistor amplifier stages, using Q10 transistor, culminating with a normal transmitter output of . The output filter comprised of LBT1 to suppress the output harmonics and matches the output to the integrate antenna.

POWER CIRCUIT

The power is controlled by IC 78L05