

## **2.6 Active Circuit Device (Refer to Block Diagram and Schematics)**

Q2 and Q1 are NPN transistors that make up the cascade amplifier used as a Voltage Controlled Oscillator to oscillate the frequency range of 460 MHz to 470 MHz. Q3 and Q5 are NPN transistors that make up the cascade amplifier used as buffer amplifier. IC29 is used for reference crystal oscillator. Q2 is a NPN transistor used to isolate the final amplifier of Q1.

Transistor Q1 also amplifies the frequency range of 460 MHz to 470 MHz and this output drives the antenna which is patient lead "COM".

## **2.7 Circuit Diagram**

Block Diagram and Schematics are separate attachments.

## **2.8 Operators Manual (Instruction Book)**

Operators Manual is a separate attachment.

## **2.9 Tune-up Procedure (Refer to Block Diagram and Schematics)**

VC2 is adjusted for maximum amplitude of the RF OUTPUT.

VC3 brings the oscillator within 200 Hz of the correct frequency. VR1 is then adjusted for the specified level at the 460MHz to 470 MHz output.