## 27.145MHZ Transmitter Operational Description

The <u>27.145</u>MHz crystal oscillator drives the base of <u>frequency</u> the final/buffer amplifier. The modulation provided by <u>AM</u>. The modulate output of <u>AM signal</u> has the matching network consisting of inductance <u>L3/L4</u> and <u>capacitance C6</u> that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

Antenna, Ground and Power Source

The antenna consists of a <u>33</u>cm long metal antenna.

There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 9.0 Volt primary battery

## **Operation Descriptions**

The transmitter is a <u>device</u> operating at 27.10-27.18 MHz band. The transmitter is powered by a <u>9.0V</u> battery and the transmitting frequency is crystal controlled. There are <u>radio</u> to control the forward reverse motor and director of movement. The operation is achieved by different combinations of form pulse modulating signal on the <u>27.145MHz</u> carrier frequency.

## Remarks:

The transmitter is a <u>super-regenerative</u> transmitter. The EUT continues to transmit while <u>button</u> is being pressed. It is <u>super-regenerative</u> transmitter, Modulation by <u>super-regenerative</u>; and type is <u>AM</u> modulation.