Application No.: HM157114

Date: <u>2006-07-26</u>

FCC ID: QEASUVPLANE49

Circuit Description

The $\underline{49.86}$ MHz crystal oscillator drives the base of $\underline{U1}$ the final/buffer amplifier. The modulation provided by $\underline{U1}$. The output of $\underline{U1}$ has the matching network consisting of $\underline{C6}$, $\underline{C7}$, $\underline{C8}$ and $\underline{L3}$, $\underline{L4}$ 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>29.5</u> 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 <u>9.0 Volt ("6F22" size battery x 1)</u> primary battery.

Operation Descriptions

The transmitter is a <u>remote control toy</u> operating at <u>49.861</u>MHz band. The transmitter is powered by a <u>9Vd.c.</u> battery (<u>6F22</u>) and the transmitting frequency is crystal controlled. There are <u>2 joysticks</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 49.86MHz carrier frequency.

Remarks:

The transmitter is a 2 Joystick transmitter.

The EUT continues to transmit while Joystick is being pressed.

It is Pulse transmitter, Modulation by IC; and type is Pulse modulation.