

## **Operation Description of transmitter for Radio Control Patriot**

The transmitter for remote control toy car is operating at 49.860 MHz which is controlled by a crystal. It is powered by a 9V battery. There is an ON/OFF switch, a pair of control levers on its left and right side to control the forward as well as backward moving and circular path respectively. It also has a button on the right side featuring one wheel spiral function.

Refer to the circuit design, the circuit description is listed as follows:

- IC1 and associated circuit act as encoding
- Q1, Q2 and associated circuit act as modulation
- X1, Q2 and associated circuit act as oscillation and amplification