

CIRCUIT DESCRIPTION

In transmitter, press the Forward, Forward-Left, Forward-Right, Or press the backward, Backward-left, Backward -Right, Or press the Left, Or press the Right, output IC pin 8 supply encoding signal. Q2 & X is a crystal oscillator of 49.860 MHz frequency. Q1 is a modulator. Output of Q1 drives the transformer L1. The antenna is coupled to the modulator by the transformer.

In receiver L1 is tuning 49.860 MHz frequency. And Q1 is a RF amplifier and detector stage. IC is a signal amplifier and decoder, it controls the output of IC pin 6, 7 and pin 10, 11. Q2\Q3\Q4\Q5\Q6\Q8 are forward and backward -motor driver, and Q7\Q9\Q10\Q11\Q12\Q13, are forward1 and backward1 -motor driver.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 30 centimeters long mast antenna. The antenna is inductively coupled. The unit relies on the ground tract of the printed circuit board. No external ground is provided. Energy is supplied by AA *2 batteries (3 volts).