

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 MCU SH-18 pin 4(P32) supply encoding signal. Q3 & X is a crystal oscillator of 27.145MHz frequency. Q2 is a modulator. Output of Q2 drives the transformer L1. The antenna is coupled to the modulator by the transformer.

In receiver L2 is tuning 27.145MHz frequency. And Q21 is a RF amplifier and detector stage. IC is a signal amplifier and decoder, it controls the output of IC pin6, 7 and pin10,11. Q11\Q12\Q5\Q6\Q7\Q8\Q17\Q18\Q19\Q20 are forward and backward -motor driver, and Q9\Q10\Q1\Q2\Q3\Q4\Q13\Q14\Q15\Q16, are forward1 and backward1 -motor driver.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 55 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 AAA x 3-batteries(4.5 volts).