

Model No: 60-2797 (49.860MHz)

## CIRCUIT DESCRIPTION

In transmitter, press the Forward, backward, left & Right, output of U1 pin 8 supply encoding signal. Q1 & X1 is a crystal oscillator of 49.860MHz frequency. Q2 is a modulator. Output of Q2 drives the transformer T1. The antenna is coupled to the modulator by the transformer.

In receiver L2 is tuned to 49.860MHz frequency, and Q1 is a RF amplifier and detector stage. U1 is a signal amplifier and decoder, it controls the output of U1 pin6, 7 and pin10, 11. Q3, Q4 and Q5 are the regulator. Q24, Q25, Q26, Q27, Q28 & Q29 are the F-B-motor driver, Q18, Q19, Q20, Q21, Q22 & Q23 are the L & R motor driver, Q30 is a controller of L-R-motor. At the same time, U1 pin6,7,10 &11 also control the U2, outputs of U2 drive the eye-motor, swing-motor and the speaker. Q6, Q7, Q8, Q9, Q10 & Q11 are the eye-motor driver, Q12, Q13, Q14, Q15, Q16 & Q17 are the swing-motor driver. Q2 is a speaker driver. At no signals, U2 can drive the eye-motor, swing-motor and the speaker.

## ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 17 centimeters long 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 a 9-volt battery.

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