

Model No: 91300-27.145MHz

CIRCUIT DESCRIPTION

In transmitter, press the Forward, Backward, Left or Right, Reset, output IC1 pin 10 supply encoding signal. Q2& X1 is a crystal oscillator of 27.145MHz frequency. Q1 is a modulator. Output of Q1 drives the transformer L1. The antenna is coupled to the modulator by the transformer.

In receiver T1 is tuning 27.145MHz frequency. And Q1 is a RF amplifier and detector stage. IC1 is a signal amplifier and decoder, it controls the output of IC1 pin6, 7, 8, 9, 12 & pin13. U1 is a MCU for transforming and sounding. Q2, Q28 are regulators. Q29, Q30, Q31 are switches to control the MCU. Q3, Q4, Q5, Q6, Q7, Q8 is a Forward and Backward motor driver, Q9, Q10, Q11, Q12, Q13, Q14, Q27 is a steering motor driver. Q15, Q16, Q17, Q18, Q19, Q20 is a transforming motor driver, and Q21, Q22, Q23, Q24, Q25, Q26 is an another transforming motor driver. Q32 is a sound driver. Q33 is a LED driver.

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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