

EXPOSITORY STATEMENT/DESCRIPTION

FCC ID:AEK983249R

The relaxation oscillator receives the RF signal from the transmitter then amplifies and detects the control signals and subsequently supplies the digital control signals to the comparitors and motor drive circuits for controlling the movements of the receiver.

The superregenerative receiver is comprised of the superregenerator relaxation oscillator circuit, which consists Q1, and its associated passive components, an amplifier circuit (Q2), and the detection circuitry (D1 and Q3). The digital control signals are then supplied to the comparator circuit and motor drive circuit (Q4, Q5, Q6, and Q7).

The receiver is powered by 2 AA 1.5 VDC batteries. No external grounding is used or required. The only tuning required is to tune the relaxation oscillator, L1, to receive the RF from its associated transmitter, and is performed at the manufacturing facility by qualified technicians.