

EXPOSITORY STATEMENT/DESCRIPTION

FCC ID:AEK992249R

The BEETLE

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, and the detection circuitry located within IC1. The digital control signals are then supplied to the comparator circuit and motor drive circuits, via IC1's control signal output ports labeled FWD (forward), BACK, RIGHT, and LEFT.

The receiver is powered by a 6 VDC battery pack. No external grounding is used or required. The only tuning required is to tune the relaxation oscillator, L2, to receive the RF from its associated transmitter, and is performed at the manufacturing facility by qualified technicians.