

EXPOSITORY STATEMENT/DESCRIPTION

FCC ID:AEK980249R

The superregenerative receiver is comprised of the superregenerator oscillator circuit, which includes Q1, and its associated passive components, and the processing large-scale-integrated (LSI) circuit, IC1-RX2. The relaxation oscillator received the RF signal from the transmitter then supplies the digital control signals to the processing IC (IC1).

The processing IC1 then conditions the control signals for input to the comparitors that control the R/C receiver's two motors, M1 and M2. These motors control the forward/reverse, left/right functions of the receiver. The comparitors are comprised of Q4 through Q9 for motor #1, and Q10 through Q15 for motor #2. See TY-X2255 Block Diagram and Schematic.

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, L2, to receive the RF from its associated transmitter, and is performed at the manufacturing facility by qualified technicians.