

L0506 Receiver Circuit Function Description

The L0506 Rollergirl toy receiver requires 4PCS AA battery for its power. It can run forward ,backward, split and spin

1. Voltage Regulator:

Contains POWER SWITCH, Q1 ,D2 and its associated components.

2. RF Amplifier:

Formed by a NPN transistor Q2 and its associated components, it amplifies the AM signal then feed it into the AM receiver module.

3. RF Receiver & Decoder:

Contains U1(SPRC206A-C) and its associated components.

The U1 receives and decodes the serial bit-stream data and amplifies the signal. The decoded signal input U2.

4. Control IC

Contains U2 (EST005) and its associated components. U2 receives the control information from U1 or protective circuit. Then the internal controller sends out different signals to driver motor .

5. Protector Circuit:

Formed by compactor U2 (LM339) and its associated circuit which inspects the low voltage of 4PCS AA battery and the high current.

6. Diver Circuit:

6.1 Driver 1: right foot Motor driver comprise transistor Q9, Q10, Q14, Q15, and its associated components.

6.2 Driver 2: left foot Motor comprise Q5, Q6, Q20,Q21 and its associated components.