

# **Jada Toys.co.Ltd**

Project No. :#83085

Model Name :1:10 RC CAR

TEL:(HK):852-21561968

Frequency : 27.145, & 49. 86MHz

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Date: :3Apr, 2007

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REV :00

## **Electronics Department**

### **CIRCUIT DESCRIPTION:**

#### **IN TRANSMIT MODE:**

After TX unit is switched "ON" and press either SW1, SW2, SW3 or SW4 the transmit frequency is oscillated by Y1, Q1 and mixed with the encoded signal from DIP port (pin8) of U1 by Q2 then coupled through L3, T1 to antenna.

The low pass filter made up of C6, T1, L3&C7, which is connected to the antenna.

A 9V Alkaline Battery supplies energy.

#### **IN RECEIVE MODE:**

The receiver part is using a Supper regenerator circuit and Q1 is the Supper regenerator &detector, Z1 is the precision voltage regulator, U1 is the signal decoder. Q6, 10, is the tunnels of the motor driver. K1&K2 (Relay) is the power control of the Forward/backward motor. Q7, 8, 9& 11 is the current driver of the left/right motor. Energy is supplied by Ni-cd9. 6V rechargeable battery.

#### **ANTENNA AND GROUND CIRCUITRY.**

This unit makes use of an external 600Millimeter rod antenna, the antenna is inductively coupled, the unit relies on the Ground trace of the printed circuit board. No external ground is provided.

A 9V Alkaline battery supplies energy