

# Jada Toys Co ., Ltd.

Project No. : 96093

Model Name : 1/16 NASCAR RC (Single and Twin Pack)

## Transmitter & Receiver Circuitry Operating Description

### In Transmit Mode:

#### Transmitter:

When User put 1 pcs 9V Battery into the battery box, press one of the keys R, L, F, B, The Encode IC U IC14 pin10 gives the Power signal out to Q1, Q1 and the X1 crystal produce a carrier frequency, synchronization, The Encode IC U IC14 pin8 gives the signal out to Q2, and mixed the carrier frequency signal, after Q2 amplifier the signal and transmit from antenna. There are three sets of modulation signal can be selected by Band Selecting Encode IC U IC14 pin2&pin7.

Alkaescence 9V\*1pcs battery. (DC9.0V) supplies energy.

### In Receiver Mode:

- The receiver part is using a Super regenerator circuit and Q1 is the Super regenerator & detector.
- DZ1 is the precision voltage regulator.
- U1 is the signal decoder.
- Q8-Q13 is the tunnels of the M1 motor driver, is the current driver of the left/right motor.
- Q2-Q7 is the current driver of the back/front M2 motor.
- Energy is supplied by alkaescence AA\*4pcs battery.