



## Early Light Industrial Co., Ltd

|                                  |                 |             |                       |
|----------------------------------|-----------------|-------------|-----------------------|
| Project No.                      | : #90174        |             |                       |
| Model Name                       | : Chrysler 300C |             |                       |
| TEL (HK): 852-29448866 EXT 354   |                 | Frequency   | : 27.145, & 49.86 MHz |
| (China): 86-755-84651111 EXT 410 |                 | Date        | : 19 May,2004         |
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### Electronics Department

#### CIRCUIT DESCRIPTION:

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

After TX unit is switched "ON" and press either K1, K2, K3 or K4 the transmit frequency is oscillated by X101 and mixed with the encoded signal from SO port (pin 8) of U2 by Q101 then coupled through T101 to antenna.

The low pass filter made up of C108, T101 & C109, which is connected to the antenna.

A 9V Alkaline Battery supplies energy.

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

The receiver part is using a Super regenerator circuit and Q1 is the Super regenerator & detector, D1 is the precision voltage regulator, U1 is the signal decoder. Q5, 6, is the tunnels of the motor driver. JK1 & JK2 (Relay) is the power control of the Forward/ backward motor. Q13,14, 15 & 16 is the current driver of the left /right motor. Energy is supplied by 9.6V rechargeable battery.

#### ANTENNA AND GROUND CIRCUITRY.

This unit makes use of an external 20-inch 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.