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OPERATIONAL DESCRIPTION –

The radio controller of the mini R/C car (02-119A) is constructed by the following three parts:

- 1) **Radio Frequency Circuit:** Radio Frequency Circuit is including three entities, which are encode, high frequency oscillation and modulation. When the encode circuit receive the four different control inputs, the encoder will create 1K-2K pulse wave in square shape. After amplitude modulation, it makes the 27MHz carrier of the high frequency oscillation circuit to be modulated again. And after that the signal will be send out by antenna.
- 2) **The Charging Circuit:** The Charging Circuit is including delay circuit and voltage switch control. After connected the rechargeable battery, the delay circuit will be switched on and counting the time automatically, and it will also control the work of charging circuit. When the delay time is in between 45-55 seconds, the delay circuit and the charging circuit controlling will be stopped immediately, it means that the 45 seconds charging is finished.
- 3) **Voice & Flashing Circuit:**
 - a) **Voice Circuit:** The car engine sound is stored in the voice IC, which will create sound when the signal is on.
 - b) **Flashing Circuit:** After connected the power, the flashing LED will be on when the flash controlling circuit outputs 3HZ signal.