

## **Transmitter Operational Description**

Y3154 radio control transmitter is a low powered, hand held unit for controlling the movement of a toy car. The transmitter is powered by 3V (1.5V \*2) 'AAA' battery. It is designed to operate a single fixed frequency in the 27.145MHz band. Please see attached block diagram and schematic.

Device has 3 function keys to control forward, turn left and right. A Remote Control Encoder W55RFS27T1B is used on the transmitter. It receives CPU AM4ED0067 controlling signal and encode a serial bit-stream. The modulated output of the RF amplifier is sent out via filter and antenna. The antenna is permanently attached.

All tuning and verifications are performed by the manufacturer and there are no adjustments that can be made by the user. No external ground is required or used with this transmitter.

## **Receiver Operational Description**

Y3154 receiver is a radio controlled toy car. It operates on 6V (1.5V \*4) 'AA' battery and is designed to operate on a single fixed frequency in the 27.145MHz band. Please see attached block diagram and schematic.

The modulated RF signal from the transmitter induces an electrical signal into the car's permanently attached metal external antenna. The electrical signal is selectively amplified and demodulated through super generative circuit.

A Remote Control Decoder W55RFS27R1B is used on the receiver to decode. W55RFS27R1B is powered by 3.3V regulator. W55RFS27R1B sends decoded signal to CPU AM4EG1707, the CPU sends out driving signals to drive motors and output sound.

All tuning and verifications are performed by the manufacturer and there are no adjustments that can be made by the user. No external ground is required or used with this receiver.