

## **Model: 10007 (Receiver portion)**

### **Technical Description of Receiver**

The Equipment Under Test (EUT) is a receiver of a RC system, which is operating at 49.860MHz as dictated by a crystal. The EUT is powered by 4 x 1.5V D size batteries. The EUT has a power AUTO/OFF//BAT switch and a red LED indicator.

After switching ON the EUT and the corresponding Bat (ie. Transmitter), the pitching machine receive the transmission from the bat and then project the plastic ball for baseball practicing. Activation for projecting the plastic ball is determined by selection of the switch to "BAT" position.

The circuit of the receiver comprises of,

1. Super-regenerative circuit

Consisting: Q1

2. Amplifier:

Consisting: U2 (SCAXiS)

3. Encoder:

Consisting: U1 (NY5A003B) ,

4. Motor driver 1

Consisting: Q2, Q3

5. Motor driver 2

Consisting: Q4

4. A Power Supply

Consisting: 6 V DC source (4 X 1.5V D size batteries)