

**Description of Circuit Function**  
**FCC ID: HSX100R**

This device, for which certification is being requested, is a garage door opener consisting of the mechanical parts (motor, gearing, chain, traveler, etc.), the control electronics, and a superregenerative receiver.

The block diagram shows the major circuit parts. The antenna is a  $1/4$  wave length (approx. 10 inches) wire that extends from the case of the opener. There is no provision for an external antenna. The circuit board ground serves as the ground plane for the antenna. The only external grounding is through the mounting and AC power cord.

After detection in the superregenerative stage, the signal is decoded and if the transmitted security code was correct, the opener performs the required function. This receiver uses rolling code techniques and is intended to be used with any of several of our previously certificated transmitters.