

# **GEM RF CONTROLLER SYSTEM**

## **SPECIFICATIONS**

- |                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>1. Supply Voltage:</b><br>24VAC/DC | <b>3. Relay Contact Load</b><br>Rating: 1 AMP @<br>24VAC/DC |
| <b>2. Frequency:</b> 303 MHz          | <b>4. Transmitter powered by 9</b><br>Volt battery.         |

## **DESCRIPTION**

The Gem two-channel RF controller system is designed for use with an operator controller that is provided with a "Constant Pressure" mode of operation. The motor will run in the direction selected by the activated push-button until the push-button is released. When the push-button is released the motor shall stop.

## **CONSTANT PRESSURE FUNCTION**

Depressing a directional pushbutton will cause the appropriate RF controller relay to energize the operator directional relay to run the motor in the selected direction. The motor will run in the selected direction for the duration of the pushbutton closure. The motor will stop when the pushbutton is released, or the end of travel limit switch in the selected direction is actuated.

**!! WARNING !!**

**DISCONNECT POWER TO THE OPERATOR BEFORE INSTALLING THE RECEIVER.**

## RECEIVER BOARD INSTALLATION PART #SP-5002-GEM

The receiver board is provided with a 24" long color-coded harness for interconnection of the receiver board with the motor control board of the operator.

1. Black Wire: 24 VAC/DC Positive power supply connection and common to the control relays.
2. White Wire: 24VAC/DC Negative power supply connection.
3. Red Wire: Normally open Relay output to Down direction.
4. Yellow Wire: Normally open Relay output to Up direction.
5. Blue Wire: Two Blue wires for connection to Learn Button.
6. Red "Learn" LED on receiver board.
  - a. Turns on when "Learn" button is depressed.
  - b. Turns off when new transmitter code is programmed into the system.
  - c. Times out if transmitter is not programmed within 30 seconds.
7. "Clear" push-button mounted on receiver board erases transmitter memory.

**NOTE:** Move jumper J-5 to location J-4 to change relay common from DC Positive to DC Negative when required.

### RECONNECT POWER TO OPERATOR AND PROGRAM TRANSMITTER

## TRANSMITTER 2 BUTTON PART # SP-5220-GEM

Program the transmitter into the receiver board.

- a. Depress customer supplied "Learn" push-button. The red LED on the receiver board will light.
- b. Depress any of the two buttons on the transmitter. The red LED on the receiver board will go out when the new code is installed in the receiver board.
- c. Test operator for proper Up and Down response from the operator to the RC commands. *The end of travel limits must be properly adjusted before this test is run.*

## !! WARNING !!

**DO NOT ALLOW CHILDREN TO PLAY WITH OR OPERATE REMOTE CONTROL TRANSMITTERS.** The hoist could operate and cause serious injury or death.

***THIS DEVICE COMPLIES WITH FCC RULES PART 15 AND IC CANADA RULES AND REGULATIONS. OPERATION OF THIS DEVICE IS SUBJECT TO THE FOLLOWING CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE; (2) THE DEVICE MUST ACCEPT ANY INTERFERENCE THAT MAY BE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION; (3) CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER COULD VOID THE AUTHORITY OF USERS TO OPERATE THIS EQUIPMENT.***