

# WCH EGM TROUBLE SHOOTING GUIDE

Rev.1 11/3/11

1. Check all wiring to make sure there are no loose or frayed wires.
2. Check supply wiring specifications are met according to page number 7 in the 3597 mechanism manual. If voltage drops too low and amperage supply is too low, the EGM will not work as intended.
3. During normal operation both red and green lights should be lit. If green light goes out during operation this indicates the EGM has tripped due to over-voltage accumulation caused by an obstruction or excessive pumping due to hold clear failure and has switched circuits to protect the motor from damage. EGM should reset on the next gate up command.
4. If the EGM does not automatically reset it can be manually reset by pressing the reset button located on the left side of the EGM unit.
5. To test EGM trip voltage: 1. Attach a recording DC voltmeter to the motor terminals. 2. Place the cam switch in the test position. As the gate descends, observe the peak voltage on the meter. 3. If the reading is above 20 volts, the test is complete. Press the reset button and place the cam switch in the run position to raise the gate. 4. If the voltage is less than 20 volts, adjust the potentiometer located on the left side of the EGM just below the reset switch and led lights, clockwise one turn. Repeat the test and adjustment until a reading of 20 to 21 volts is achieved. 5. Press the EGM reset button and place the cam switch in the run position to raise the gate. 6. If adjustment does not achieve proper operation, the EGM unit is defective and should be replaced.
6. If the EGM should need to be replaced, follow this procedure to allow the gate to operate until a replacement unit can be installed. 1. At the EGM, remove wire SHR2 from the EGM wire stud. 2. Remove wire C5 from the EGM wire stud and connect it to EGM wire stud MB. 3. Leave all other EGM wiring in place. NOTE: While wired in this manner, the 3597 will operate as any normal gate. **DO NOT** operate the cam switch to the test position if the EGM has been temporarily wired in this state, as the gate arm will descend rapidly and damage could occur. Install a replacement as soon as possible.