

**REPLACING INCANDESCENT LAMPS with LED LAMPS- MODEL SG
FOR EITHER MASTER AND DRONE UNITS**

GENERAL PREPARATION:

- **IMPORTANT:** Disconnect power from entire system before replacing any lamps.
- For easier replacement we suggest you do not remove the Model SG from its mounting location.
- Change **ONLY** the internal lamp connections **WITHIN** the Model SG unit. Wiring outside the Model SG to the controller is not affected. See the figure (left) detailing the internal wiring for either AC or DC models.

WIRE MARKING: We recommend the using the "Wire Color/LAMP COLOR" notation on a tag. For example- Red/RED indicates a Red lead from a RED lamp, Black/GREEN is the Black lead from the GREEN lamp.

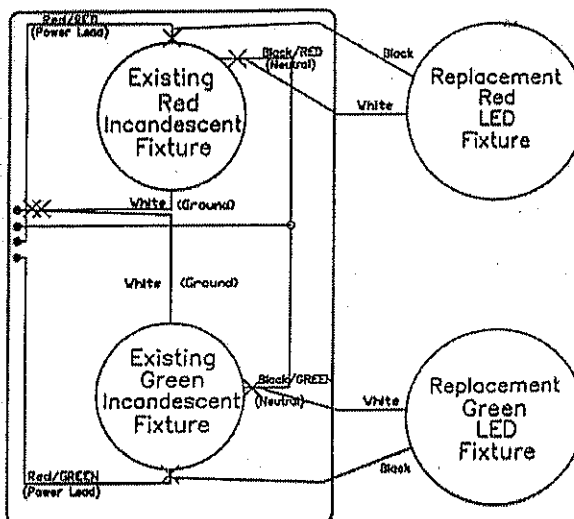
115 VAC MODELS

- 1) Tag all existing Red and Black wires **BEFORE** cutting. (The White grounding wires need not be tagged). See WIRE MARKING note above.
- 2) Cut but don't strip or tag the 2 White grounding wires as close to the back metal panel as possible (electrical grounding is not required using the new LED lamps).
- 3) Cut the remaining 4 lamp wires very close to both lamp bodies, remove the lamps, and strip the remaining tagged wires 3/8" to 1/2".
- 4) Using the wire nuts provided, connect the Red LED as follows:
 - a. The marked Red/RED power lead to the Black lead of the Red LED fixture.
 - b. The marked Black/RED neutral lead to the White lead of the Red LED.
- 5) Using the wire nuts provided, connect the Green LED as follows:
 - a. The marked Red/GREEN power lead to the Black lead of the Green LED fixture.
 - b. The marked Black/GREEN neutral lead to the White lead of the Green LED.
- 6) Replace the LED lamps within the housing and tighten all mounting clip screws.
- 7) Restore power and check for proper operation.

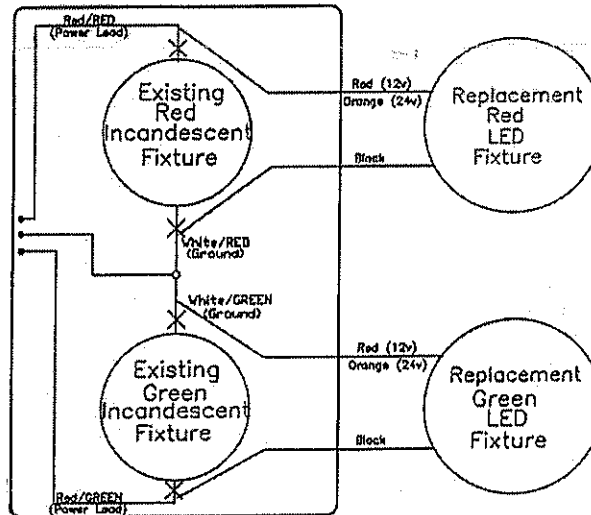
DC MODELS (12 and 24volts)

- **CAUTION:** Provide **ONLY** DC power.
 - **IMPORTANT:** 24 volt LED models require careful control of the DC input voltages if DC is derived from AC power sources. Insure 24VDC volt LEDs do not exceed a peak of 26.4 VDC.
- 1) Tag all existing Red and White existing wires **BEFORE** cutting. See WIRE MARKING note above.
 - 2) Cut all 4 incandescent lamp wires very close to both lamp bodies, remove the lamps, and strip the remaining tagged wires 3/8" to 1/2".
 - 3) Using the wire nuts provided, connect the Red LED as follows:
 - a. The marked Red/RED power lead to the Red (or Orange for 24 volt) lead of the Red LED fixture.
 - b. The marked White/RED ground lead to the Black lead of the Red LED.
 - 4) Using the wire nuts provided, connect the Green LED as follows:
 - a. The marked Red/GREEN power lead to the Red (or Orange for 24 volt) lead of the Green LED fixture.
 - b. The marked White/GREEN ground lead to the Black lead of the Green LED fixture.
 - 5) Replace the LED lamps within the housing and tighten all mounting clip screws.
 - 6) Restore power and check for proper operation.

115 Volt AC Models



12 or 24 Volt DC Models



X = CUT & STRIP POINTS

XX = CUT ONLY POINTS