

GUEST

MODEL 501

**RADIO CONTROLLED
REMOTE SPOTLIGHT**

**INSTALLATION AND OPERATION
INSTRUCTIONS**



**IMPORTANT !
READ THESE INSTRUCTIONS BEFORE
INSTALLING AND USING THIS PRODUCT.**

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

CAUTION!

THE MODEL 501 COMPLIES WITH PART 15 OF THE FEDERAL COMMUNICATIONS COMMISSION RULES. CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE GUEST COMPANY MAY VOID YOUR AUTHORITY TO OPERATE THE SPOTLIGHT!

The GUEST 501 BEAMER™ remote control spotlight consists of:

- (1) The Spotlight / Receiver 
- (2) The hand held wireless remote (R.F. Transmitter). 

Item 1 is powered by 12 Volts D.C. Item 2 is powered by a 12 Volt Alkaline Battery (provided with unit). See section titled “Installing Transmitter Battery”.

Installation

Range of operation of the wireless remote (R.F. Transmitter) is approximately 100 feet under ideal conditions. The following will reduce the range:

- (1) A weak 12 Volt Alkaline Battery in the Transmitter.
- (2) Local radio interference.
- (3) Obstacles between the wireless remote (R.F. Transmitter) and Spotlight.

To provide control in the event of temporary signal loss or loss of your R.F. Transmitter, we strongly suggest you replace the transmitter battery on a regular basis.

This unit is designed for 12 volt DC operation only.

CAUTION!

TO HELP PREVENT POSSIBLE SIGNAL LOSS, CHANGE BATTERIES YEARLY OR MORE OFTEN WITH EXTENDED USE.

Mounting the Spotlight

- 1. Select a horizontal, smooth surface to mount the spotlight in an upright position (not upside down). Be sure you will have access to the underside of the chosen location, and that you will be able to drill holes there without damaging existing wiring or

structures. Avoid locations where lines, anchors, sails or other hazards might damage the light.

NOTE: Mounting the light as far forward or as high as possible can help to reduce reflected glare from the deck when the light is in use.

2. Remove the foam gasket from the base of the spotlight and use it as a template.
NOTE: Front mounting holes are further apart than rear holes. Mark the location of the four corner holes and the center hole squarely onto the mounting surface with pencil.

3. Drill five 5/16" (7mm) holes through the mounting surface at the marked points.

NOTE: Always wear eye protection when using power tools.

4. Return the foam gasket to the base of the spotlight, making sure that the two wires exit through the center hole in the gasket.
5. Feed the two wires coming out of the base of the light through the center hole in the mounting surface. A *small* amount of a *non-silicone* sealant, (such as StarBrite® Boat Caulk #83801), can be applied to where the bolts and the wires penetrate the mounting surface.

CAUTION!

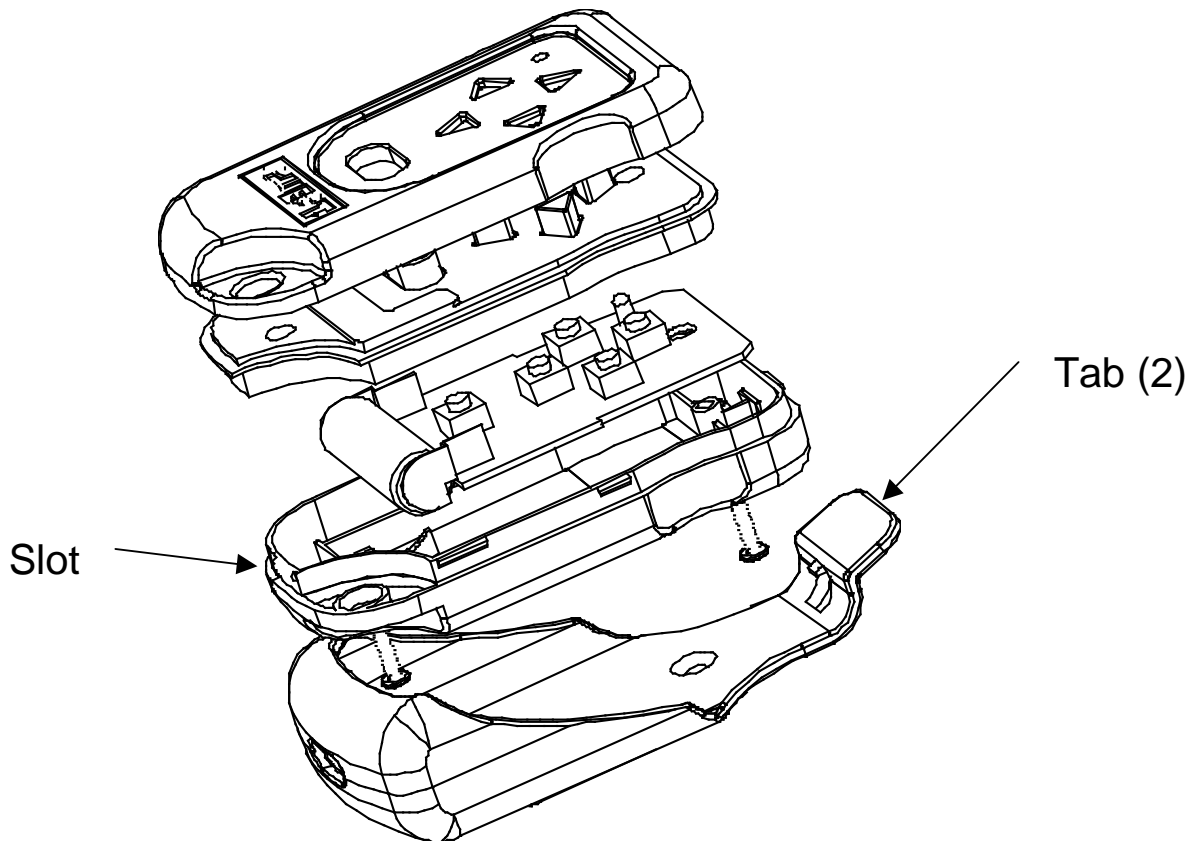
SILICONE BASED SEALANTS MAY CAUSE DAMAGE TO THE FOAM GASKET, OR TO THE BASE OF THE SPOTLIGHT.

6. A Marine grade plywood back plate is recommended to strengthen the installation.
7. Place the light on the mounting surface, lens facing forward, and align the 4 holes in the light base and the foam gasket with the 4 corner holes drilled into the mounting surface
8. Fasten the spotlight securely to the mounting surface using four 1/4" (6mm) stainless steel Pan head screws, large flat washers, lock washers and nuts. Do not over tighten.
9. It is recommended that the base of the spotlight be sealed to the mounting surface using non-silicone sealant as in #5 above after installation for complete waterproofing.

Installing Transmitter Battery

Note: Battery is included, but not installed to help prevent loss of battery strength when new.

- (1) Remove any static charges from your body by touching a metal grounded object.
- (2) Remove Transmitter from console mounting bracket, by slightly bending the tab back to release the transmitter from the bracket.
- (3) Remove the two screws on the back of the transmitter with a Philips screwdriver. With a coin, lightly pry open the transmitter case using the slot in the bottom corner opposite of the key ring hole.
- (4) Carefully separate the case halves. See illustration for disassembly below.



- (5) Place the 12 Volt Alkaline A23 battery in location per Figure 1 below paying close attention to the + / - orientation.

NOTE: If you wish to change the security code for your light, skip to the section titled: **Changing the Security Code – OPTIONAL** Then return here for re-assembly instructions.

- (6) Make sure membrane and top cover is re- assembled correctly with buttons protruding fully.
- (7) Carefully snap top cover / membrane on to lower assembly. It should only take light pressure to snap in place.
- (8) Test battery connection by pressing any of the buttons. When doing so, the red LED indicator should turn on in the upper left hand corner. If the LED does not illuminate, separate the covers and check the battery polarity, if correct replace with another battery. SEE FIGURE 1 BELOW.

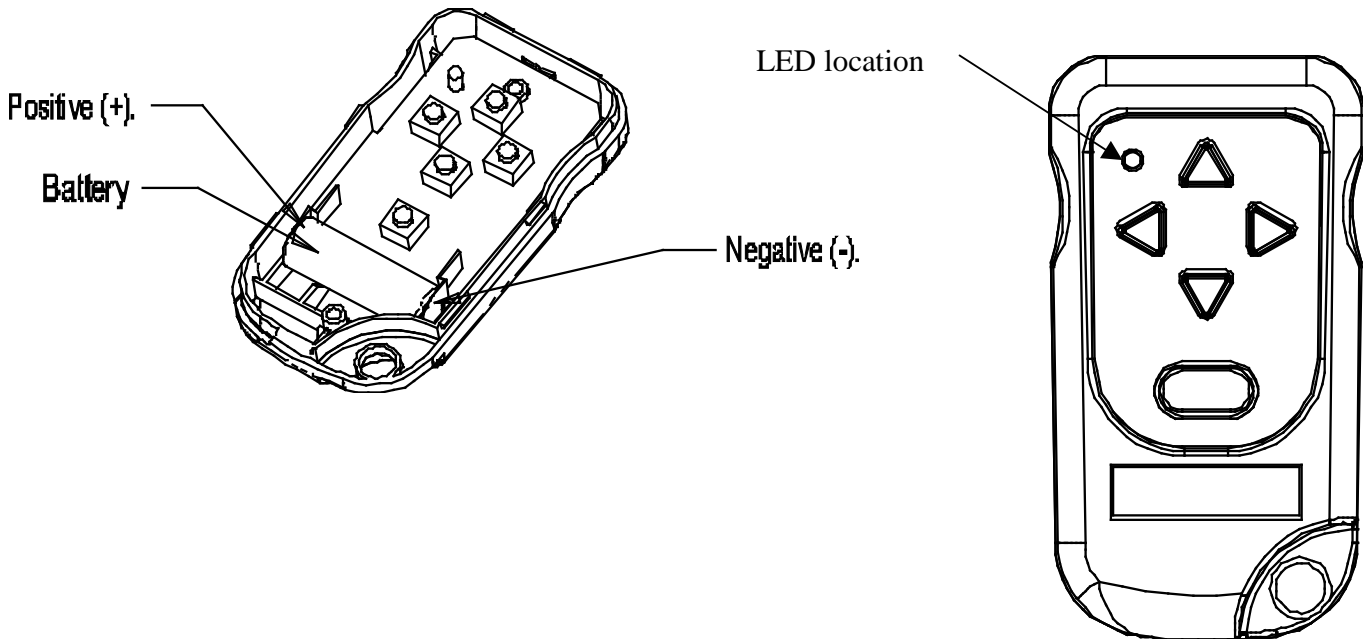


FIGURE 1

- (9) Re-install the 2 screws on the back cover and tighten them

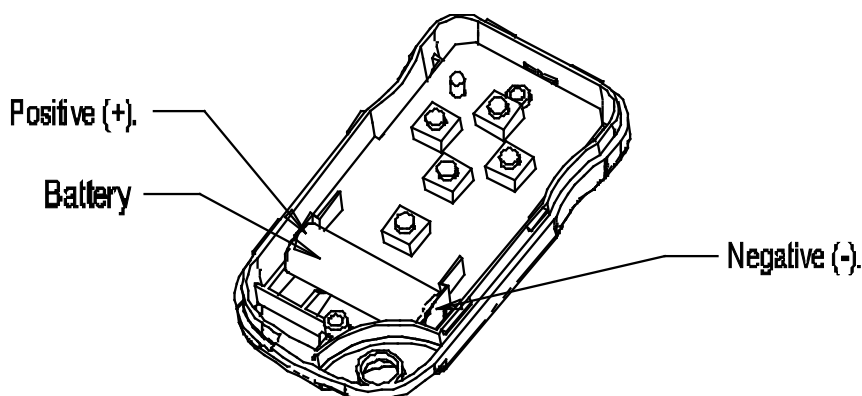
Changing the Security Code - OPTIONAL

There are 64 codes available in the system. They are selected by means of an 8-position code switch. There is a code switch in the wireless remote (RF Transmitter).

NOTICE

ALL RADIO CONTROLLED REMOTE SPOTLIGHTS ARE FACTORY SET TO THE SAME SECURITY CODE. IF YOU HAVE A PROBLEM WITH ANOTHER PERSON'S SPOTLIGHT INTERACTING WITH YOUR SPOTLIGHT, OR WISH TO CHANGE YOUR SECURITY CODE FOR ANY REASON, FOLLOW THE PROCEDURE OUTLINED BELOW.

- A. Disconnect Power to the spotlight.
- B. Adjust Security Code (Perform steps listed below in Code switch Location and Adjustment section).
- C. Reconnect Power.
- D. Within 5 seconds of reconnecting power, push transmitter buttons to register security code.



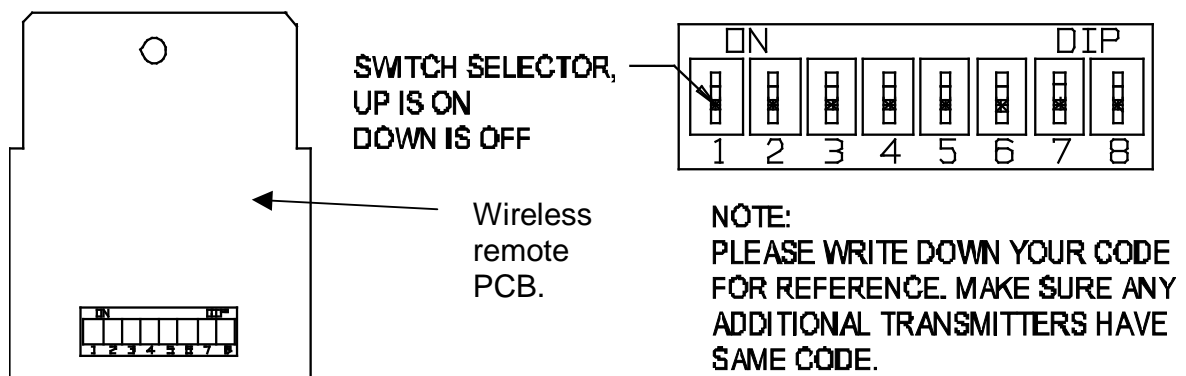
Code Switch Location and Adjustment

The Code switch is located inside of the transmitter on the backside of the circuit board, above the battery.

- A. Remove any static charges from your body by touching a grounded metal object.
- B. Remove transmitter from console mounting bracket by slightly bending the tab back to release transmitter from bracket.
- C. Remove the two screws on the back of the transmitter with a Philips screwdriver.
- D. With a coin, lightly pry open the transmitter case using the slot in the bottom corner opposite of the key ring hole.
- E. Carefully separate the case halves.
- F. Carefully remove the circuit board and adjust the code switch to a new setting, (See figure A for switch location).

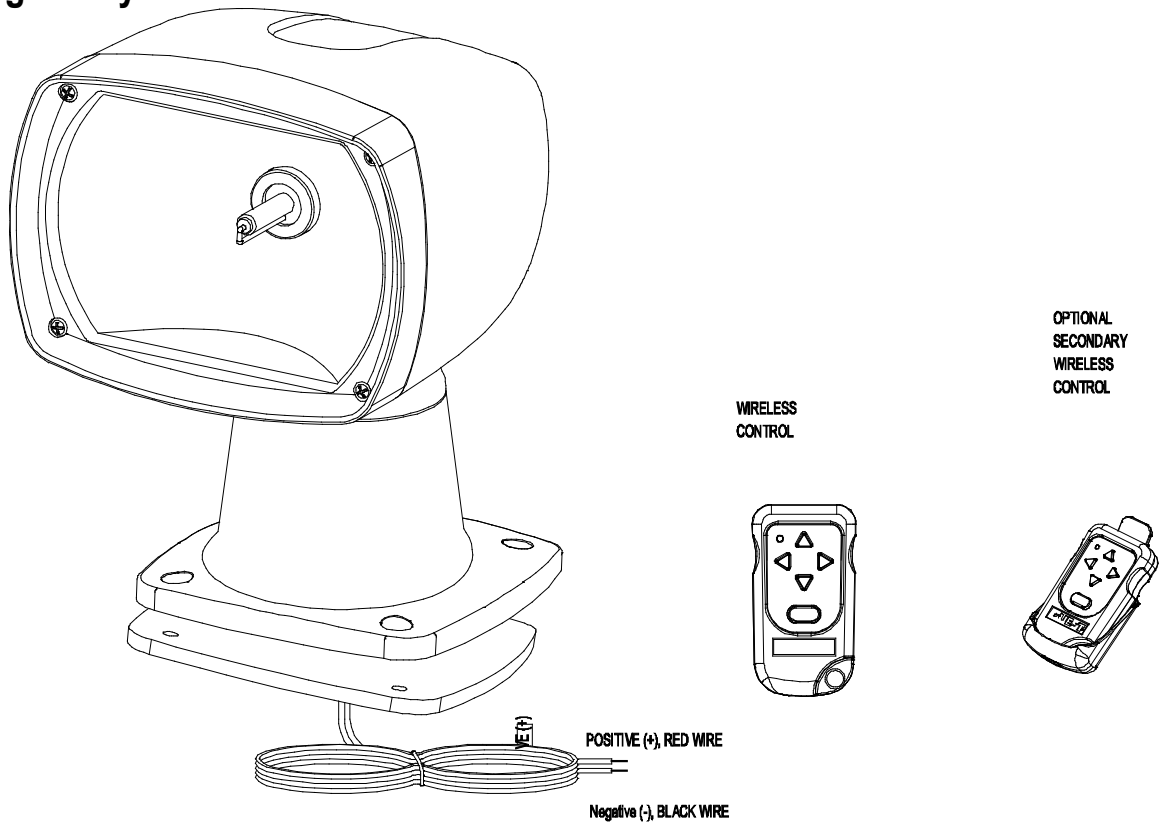
- a. The position of each of the eight switches may be changed by using a small stiff object such as the end of a paper clip, or the end of a mechanical pencil with the lead retracted
 - b. NOTE: It does not matter which code is chosen provided that all switches in the system are set to the same code.
- G. Record setting for any secondary controls.

FIGURE. A



- H. Make sure membrane and top cover is re- assembled correctly with buttons protruding fully.
- I. Carefully snap top cover / membrane on to lower assembly. It should only take light pressure to snap in place.
- J. Test battery connection by pressing any of the buttons. When doing so, the red LED indicator should turn on in the upper left hand corner. If the LED does not illuminate, separate the covers and check the battery polarity. If correct, replace with another battery. See Figure 1 in section titled "Installing Transmitter Battery".
- K. Re-install the 2 screws on the back cover and tighten them.

Wiring the System.



CAUTION!

POLARITY IS CRITICAL. REVERSE POLARITY WILL DAMAGE THE LIGHT, AND RECEIVER.

NOTES:

1. All black wires must go to a common ground.
2. Polarity is important - red to power / black to ground

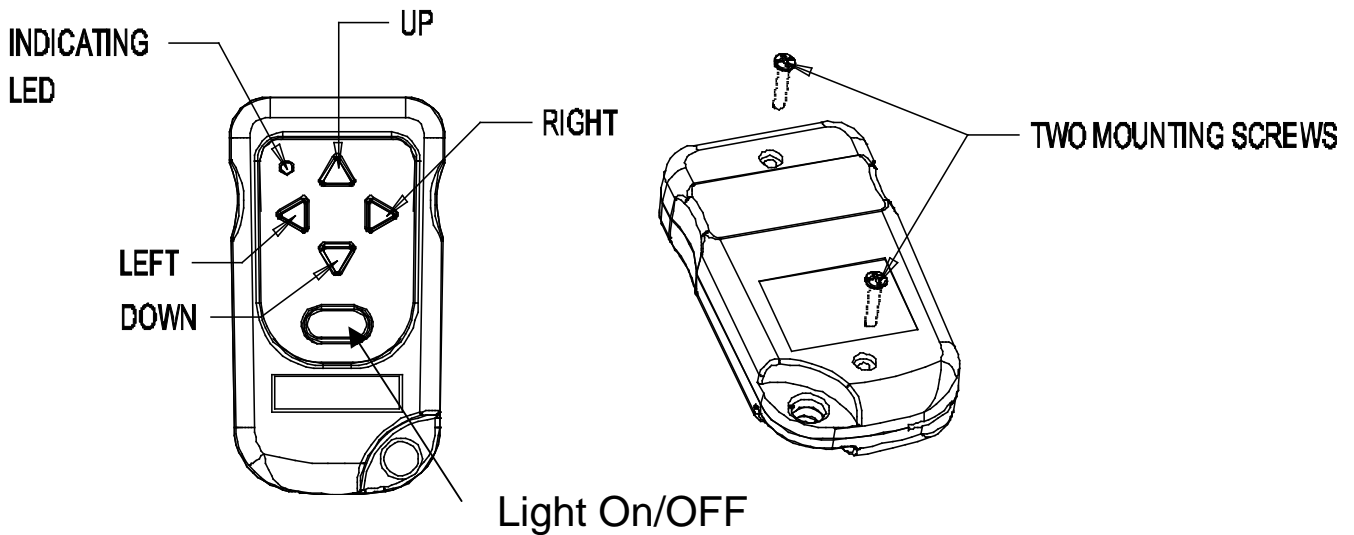
Initialization of System

1. Connect the red wire from the light to 12V DC power (+) and the black wire to ground (-). (Connections-minimum 14 gauge wire). The power must be fused for 10 Amps.
2. Within 5 seconds of applying power to the light you must activate the unit with your wireless control by pressing the green (power / light) button 2-3 times.

3. If pressing the power button does not turn the light on and off, try pressing the directional control buttons, to see if the light moves in the direction indicated. If there is no movement check to make sure the wiring to the spotlight is correct and measures approximately 12 volts DC. Disconnect power to the spotlight (\approx 5 seconds), then reconnect power and press the green "power button" to register the transmitter frequency. If you still have a problem, then call customer service.

Operation

You are now ready to operate the light. For directional control, the wireless remote (R.F. Transmitter) work as shown below:



On the wireless remote, (RF Transmitter) the light is turned on and off by using the power switch. The light can be turned on with the main wireless control or any secondary wireless controls.

The spotlight rotates 355 degrees. It has a built in stop to prevent more than 355-degree rotation.

The spotlight vertical adjustment is approximately 80 degrees. Built in stops prevent over travel.

The range of operation of the radio-controlled system is approximately 100 feet (30.5M) under normal conditions. A weak battery or obstacles will reduce this range.

Mounting the Transmitter for console control operation

- (1) Remove Transmitter from the plastic console-mounting bracket by slightly bending the tab back to release transmitter from bracket.
- (2) Place the transmitter in the desired location and orientation. Test systems by operating the spotlight in all directions to verify you do not have interference between the locations.
- (3) The location for mounting the console bracket should be a smooth and flat surface. Be sure you will have access to the underside of the chosen location, and that you will be able to drill holes there without damaging existing wiring or structures.
- (4) Use the bracket as a template to mark mounting holes on the flat surface that is convenient for operation of the light.
- (5) It is recommended to use marine grade plywood as a back plate to strengthen the installation.
- (6) Drill the two 3/16 (4.5 mm) holes through the mounting surface at the marked points.
- (7) Apply a small amount of non-silicone sealant (such as StarBrite #83801) to where the screws penetrate the mounting surface.
- (8) Fasten the bracket securely to the mounting surface using the two 6-32 x2" (3.5mm x 50mm) flat head stainless steel screws, flat washers, and locknuts provided with the light. Do not over tighten.

Maintenance

Under normal conditions, mild detergent and water will be sufficient to keep the spotlight clean. Avoid using caustic chemicals or abrasives as they may damage the housing. No lubrication is necessary.

Battery Replacement

Only the wireless remote (R.F. Transmitter) requires a battery. Replace only with a 12 Volt Alkaline A23 battery. See section titled "Installing Transmitter Battery".

Replacement parts (Available from Guest Co. see last page for contact information)

<i>Item</i>	<i>Part #</i>
Replacement 100 Watt bulb kit	729493
Dual station control panel (or replacement wireless control panel)	729825
Base mounting gasket	728377
Gasket for lens	B-23131

Troubleshooting

Under normal use, your Guest Beamer spotlight will provide you with many years of reliable service. If your unit should become damaged by a severe impact, we recommend that you Contact Guest Company. (See last page) for technical support and parts information.

If an operational problem occurs:

- 1. Confirm that all fuses are intact.** If a fuse *has* blown, do not replace the fuse until the cause of the problem has been located and corrected. NEVER replace a blown fuse with a higher value fuse.
- 2. Most problems are caused by poor wiring connections.** Confirm that all wiring connections are accurate and well made. The connections of the wires are important and should be soldered and then taped, or connected using weatherproof phone splices. Be sure that the spotlight is connected to a DC power source capable of supplying *at least* 12 volts at 10 amps even while other equipment is operating.
- 3. If the spotlight does not move or light:**
 - a. Observe the control panel. The Red light on the control should turn on whenever a button is pressed. If it does not, first check the (internal battery), if correct then replace the control panel.
 - b. Disconnect the 12 Volt Dc power from the spotlight. Reconnect the 12-volt DC power from the spotlight. Press the “green” power button 2-3 times with in 5 seconds of applying power to the light.
 - c. Remove the 4 bolts that fasten the spotlight onto the mounting surface and gently lift the unit until you can see inside its base. Avoid cutting any wires. Gently inspect the wiring inside the base for broken connections. Examine the circuit board for loosened plug connectors, blackened components or corrosion. Replace the circuit board if it appears damaged. If there are no

loose wires or signs of water penetration, re-install the spotlight and then replace the wireless remote (RF Transmitter). If there are signs of damage, contact the Guest Service Department for advice.

Have available information about how and where the spotlight was installed.

4. **If the spotlight moves properly but does not light**, examine the halogen bulb. Replace it if it appears discolored or broken. If the bulb appears to be normal, test for a faulty relay by listening at the base of the light while someone else activates the bulb using the control. If no "click" is audible, or if a "chattering" sound is heard, replace the relay. Note: Low voltage or a faulty circuit board *may* cause similar symptoms.
5. **If the spotlight will not move left or right** but operates normally otherwise, listen at the base of the light while someone else presses the left/right directional buttons. If the lower motor makes no sound when it is activated, replace the lower motor.
6. If your light has a problem that is not described above, contact the Guest Service Department for advice. Be sure to have available a detailed description of the problem, proof of purchase (if requesting warranty service), and your daytime telephone, fax number, or e-mail address.

FCC Notification

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

LIMITED WARRANTY

For one (1) year from the date of purchase, The Guest Co., Inc. will, at its discretion, repair or replace for the original consumer, free of charge, any part or parts found upon examination by Guest Co., Inc., 95 Research Parkway, Meriden, Connecticut to be defective in material or workmanship or both. All transportation charges under this warranty must be borne by the consumer.

**Proof of purchase is required. Proof of purchase must be computerized receipt.
Handwritten receipts are not accepted.**

THERE IS NO OTHER EXPRESSED WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND CONSEQUENTIAL DAMAGES ARE EXCLUDED WHERE PERMITTED BY LAW.

CUSTOMER SERVICE

If you, our customer, have any questions concerning Guest products, parts or warranties, please contact our Service Department Monday through Friday between 9:00 AM and 4:00 PM Eastern Time.

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