

# ALGER EQUIPMENT CO., INC.

320 Flightline

Lago Vista, TX 78645

Phone: 512-267-0383

FAX: 512-267-0452

TOLL FREE: 800-320-1043

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## INSTALLATION INSTRUCTIONS - 110 V.

### CAUTION !!!

### DO NOT ATTEMPT TO LIFT ALGER-LITE BY LIGHT BAR!!!

Read ALL instructions carefully before proceeding. If instructions are not followed, damage to the light, or injury to yourself may result.

The light bar is purposely left loose on the motor shaft for shipping. Please use allen wrench enclosed to tighten set screw on motor shaft **AFTER** mounting light on ceiling.

- Bulbs are packed within the Lite cabinet.
- When the top plate is removed, you may in turn remove the bulbs from the cabinet.
- Use only the enclosed switches for the ALGER-LITE.
- Use **ONLY GE #4505** bulbs.

### MOUNTING

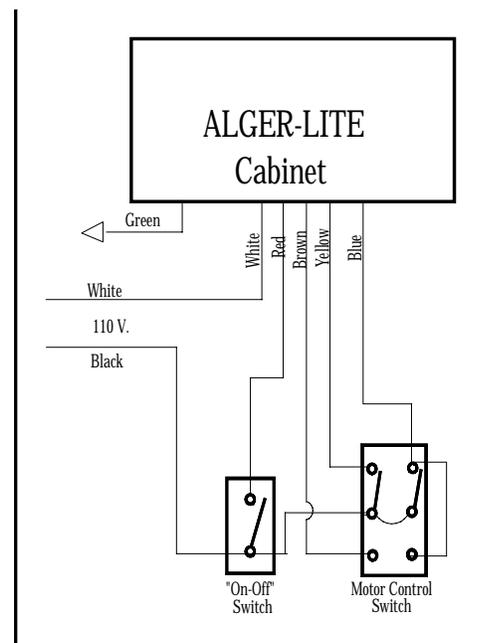
To determine where the ALGER-LITE should be mounted on the ceiling:

- a) If you work with the patient in the reclined position, the light should be mounted on the ceiling straight above the patient's hip.
- b) This position can vary toward the head or foot of the patient depending on the ceiling height and/or patient positioning. For instance, if you work with patient more upright or have a higher ceiling then the light should be mounted more toward the foot.

**NOTE:** There is some flexibility in mounting of the light, but this has been found to be the more satisfactory

#### **TO MOUNT:**

1. Remove cover plate which is secured by four machine screws from the top of the ALGER-LITE. Remove two bulbs packed inside. **DO NOT** lift ALGER-LITE by light bar or put undue pressure on light bar, as it will ruin motor gears.
2. Secure cover plate to ceiling by two 3/16" Molly bolts (if sheetrock ceiling) or by bolting to a 2"X4" support beam above the suspended ceiling "T" bar runners (if suspended acoustic ceiling).
3. Connect conduit to knock out hole in cover plate. Make sure ALGER-LITE is grounded.



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4. **ROUGH IN:** Run 5 ea. #14 Ga. wires from the place where the ALGER-LITE is mounted to the switches.  
**NOTE:** This must be done in accordance with local electrical codes. Connect wires as indicated in diagram on page 1. and fasten ALGER-LITE cabinet to cover with four machine screws.
5. Secure light bar to flat side of motor shaft by tightening set screw. **DO NOT ATTEMPT TO ROTATE LIGHT BAR BY HAND AFTER IT HAS BEEN SECURED TO FLAT SIDE OF MOTOR SHAFT! THIS WILL RUIN MOTOR!**

## WIRING

1. Determine convenient location for control switches:
  - a) If mounted on chair, they must be installed in a suitable outlet box to comply with local and accepted electrical codes. also, allowances must be made for the chair movement when considering the wires running to the switches. If on moveable part of chair, use an approved flexible cable.
  - b) Switches can be mounted on wall or dental unit in suitable outlet box, in accordance with local and national electrical codes.
2. Connect 110 V. power source anywhere along the line as shown in wiring diagram.
3. Make connections at ceiling between rough-in wires and ALGER-LITE wires with wire nuts as shown.
4. After wiring and mounting is complete, rotate the light bar **ONLY by activating the light control switch.**
5. **NOTICE:** The range of rotation of the light bar is limited to protect the wiring. **DO NOT ROTATE THE LIGHT BAR FARTHER THAN A VERTICAL POSITION IN THE 'UP' DIRECTION OR FARTHER THAN A HORIZONTAL POSITION IN THE 'DOWN' DIRECTION.** (i.e. where the bulbs are pointing straight down).

To Connect Bulbs:

1. Rotate light bar "up" to vertical position (bulbs pointing straight ahead) **USING** switches only!
2. Disconnect power to ALGER-LITE.
3. Connect white and black wire to each bulb and insert bulb under retaining spring.
4. Make sure bulbs are well seated and rotate bulbs to make sure two beams coincide in center when turned "on".

## RE-LAMPING

**CAUTION:** Make sure power to the ALGER-LITE is turned "off" before attempting to remove or install bulb. Electrical shock can result if power is "on". Use **ONLY** GE #4505 bulbs in the ALGER-LITE (Available from Alger Equipment Co., Inc.

1. Before turning power "off", activate the motor control switch in the "up" direction to the point where the bulbs are pointing **straight ahead.** **DO NOT GO BEYOND THIS POINT!** There is a mechanical stop in the ALGER-LITE to protect the wires from contact with the light bar. This stop is meant as a preventive measure. If the light bar is repeatedly moved against this stop, damage to the motor gears may result.
2. DO NOT rotate in the down position past the vertical position (bulbs pointing down) for the same reason.
3. Turn power to the light "off", slide bulb out from under clips and disconnect red and black wires to each bulb.
4. Connect leads to new bulbs and slide under clips -- rotating bulbs so that they are both horizontal. Turn light "on" temporarily to see if the two beams coincide. If they do not overlap in the center portion, turn off power and rotate one or both bulbs slightly in the indicated direction. **DO NOT ATTEMPT TO ADJUST BULBS WITH POWER "ON" AS THIS COULD RESULT IN AN ELECTRICAL SHOCK OR BURN.**
5. Return light bar to normal position by activating switch in "DOWN" position.