

# ALGER EQUIPMENT CO., INC.

320 Flightline

Lago Vista, TX 78645

Phone: 512-267-0383

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01/01/97

## INSTALLATION INSTRUCTIONS

### 220 V. ALGER-LITE

\*\*\*\* NOTICE \*\*\*\*

**DO NOT ATTEMPT TO LIFT LIGHT BY LIGHT BAR. THIS WILL DAMAGE MOTOR GEARS !!!**

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

Bulbs are packed within the lite cabinet. When the top plate is removed you may in turn remove the bulbs from the cabinet.

## MOUNTING

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

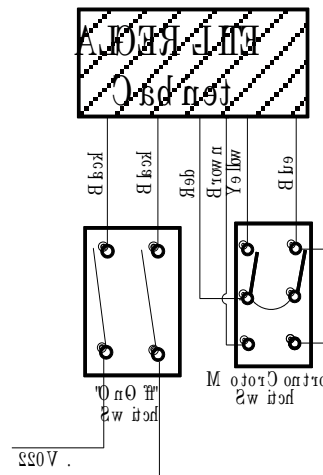
- First, seat patient in chair in OPERATING POSITION.
- With patient's mouth open, visualize the most direct line into the patient's mouth. (i.e. a line bisecting the angle between upper and lower arches.)
- Extend this line to the ceiling, thus marking the most opportune position for the ALGER-LITE.
- As a general rule, this position on the ceiling lies directly above the thigh of the patient.

**NOTE:** There is quite a little flexibility in mounting of the light, but this has been found to be the most satisfactory.

Remove the cover plate, which is secured by four machine screws, from the top of the ALGER-LITE.

Bring the six wires through the knock-out hole in the cover plate.

Mount Cover plate on the ceiling by means of 3/16 in. Molly Bolts or wood screws (if there is support above the sheetrock).



## WIRING

- First, determine a convenient location for your control switches. Some suggestions are:
    - On back of chair
    - On unit within reach of assistant
    - On instrument cabinet behind or to right of chair.
    - On cabinet near floor where they can be operated with foot.
  - Then string six #14 GA. wires from the place where the light is to be mounted to the place where switches will be located.
  - Bring 220 V. power source in as shown in wiring diagram above.
  - After wiring and mounting is complete, rotate the light bar by activating the motor control switch. -- **DO NOT ATTEMPT TO ROTATE LIGHT BAR BY HAND AFTER IT HAS BEEN SECURED TO MOTOR SHAFT !!** -- Continue rotation with motor switch until the light bar is vertical, (i.e. bulbs are pointing straight forward).
- NOTICE:** The range of rotation of the light bar is limited to protect the wiring.
- After the light bar is rotated to a vertical position, connect a white wire and a black wire to each bulb and insert bulb under retaining clips. Make sure bulbs are seated well in light bar and rotate bulbs individually until the two beams coincide in the center when the light is turned "on".

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## 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.