

ALGER EQUIPMENT CO., INC.

320 Flightline

Lago Vista, TX 78645

Ph: 512-267 0383

800-320-1043

FAX: 512 267 0452

[Return to Main Page](#)

ALGER-LITE WITH ARC - 110V. Model INSTALLATION INSTRUCTIONS

CAUTION

DO NOT ATTEMPT TO LIFT LIGHT 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 after mounting light to ceiling.
- Bulbs are packed separately. Use only #4505 bulbs. Alger Equipment Co., Inc. sells replacements at the most reasonable cost.

ROUGH-IN WIRING:

1. The total amperage of the ALGER-LITE is 1 Amp.
2. Standard 14 Ga. wires are run to the ALGER-LITE via conduit.
3. **IMPORTANT !!** Make sure circuit is switched so that it can be turned "OFF" at night by wall switch.

MOUNTING:

To determine where light should be mounted on ceiling:

- a) If you work with the patient reclined, 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 ceiling height and/or patient positioning (e.g. 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 most satisfactory.

TO MOUNT:

1. Remove the cover plate which is secured by four machine screws from the top of the ALGER-LITE. DO NOT lift ALGER-LITE by the lite bar or put undue pressure on lite bar, as this 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"X 4" support beam above the suspended ceiling runners (if suspended ceiling).

3. Connect conduit to knock out hole in cover plate, making sure ALGER-LITE cabinet is grounded.
4. Connect black and white wires to 110V and re-secure ALGER-LITE cabinet to cover plate with four machine screws.
5. Secure set screw in lite bar to motor shaft on flat side of shaft. DO NOT attempt to move lite bar by hand after it has been secured to motor shaft.

OPERATION:

- Transmitter is fairly non-directional, meaning that it does not have to be pointed directly at the light. It operates with a standard 9 V. alkaline battery.
- The small LED on the ALGER-LITE cabinet will light when the transmitter is keyed.
- DO NOT lay transmitter down on the buttons as this will wear out the battery.
- Make sure to turn "OFF" power to light at night to prevent stray signals from activating it.
- Transmitter may be placed in a "baggy" for cross-contamination purposes.
- DO NOT rotate the lite bar farther than the horizontal position in the "UP" direction or past the vertical (bulbs pointing straight down) in the "DOWN" direction. The rotation of the lite bar is limited to protect the wiring.

BULB INSERTION:

1. Utilizing the hand-held transmitter, activate the "up" button until the light bar is pointing straight ahead (i.e. to the wall behind the patient's head). ** Notice that the movement will stop immediately when the switch is released **.
2. Before placing the bulbs make sure to turn **POWER "OFF"** to the light to avoid possible electrical shock.
3. Connect a white and black wire to each bulb and slide bulbs under the retaining clips in the lite bar.
4. These clips may be bent down slightly if the bulbs don't seem to be secure in the light bar.
5. Rotate bulbs in their mounting so that the connectors are horizontal.

Turn **POWER "ON"** and activate the "on" switch of the transmitter and observe the beam pattern on the wall. The beams of the two bulbs should overlap in the center portion if mounted correctly.

Carefully rotate the bulbs so that the beams coincide in the center for maximum effect.

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.