

CHLORIDE

MAX-LITE

6 & 12 VOLT

LEAD AND NICAD



INSTALLATION AND OPERATING INSTRUCTIONS

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

All servicing should be performed by qualified personnel only.

Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.

The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

Do not use this equipment for other than intended use.

Do not let supply cords touch hot surfaces.
Do not mount near gas or electric heaters.

Caution: Halogen cycle lamp(s) are used in this equipment. To avoid shattering: Do not operate lamp in excess of rated voltage, protect lamp against

abrasion and scratches and against liquids when lamp is operating, dispose of lamp with care.

Halogen cycle lamps operate at high temperatures. Do not store or place flammable materials near lamp.

Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush acid with fresh water and contact a physician immediately.

CAUTION: To avoid electrical overload, total connected lamp load (factory and field installed) should not exceed output rating.

SAVE THESE INSTRUCTIONS

WARNING – Shut off AC power to branch circuits to which units will be connected. All wiring should be per N.E.C. Articles 501-4(b) and local codes.

To maintain warranty, equipment with batteries must be installed or placed on charge within prescribed period after shipment.

GENERAL INSTRUCTIONS

MOUNTING INSTRUCTIONS

1. Prior to mounting to wall, determine easiest location for cable entry
2. Drill box to accommodate a water/dust tight compression fitting (See Figure 1).

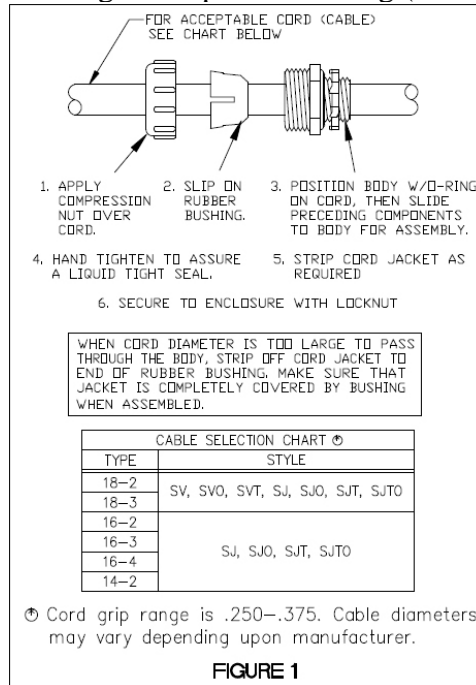


FIGURE 1

3. Mounting feet may be installed at this time using supplied with mounting feet kit. (See Figure 2).
4. Thread AC service wires through compression fitting (See Figure 1).

MOUNTING DIMENSIONS

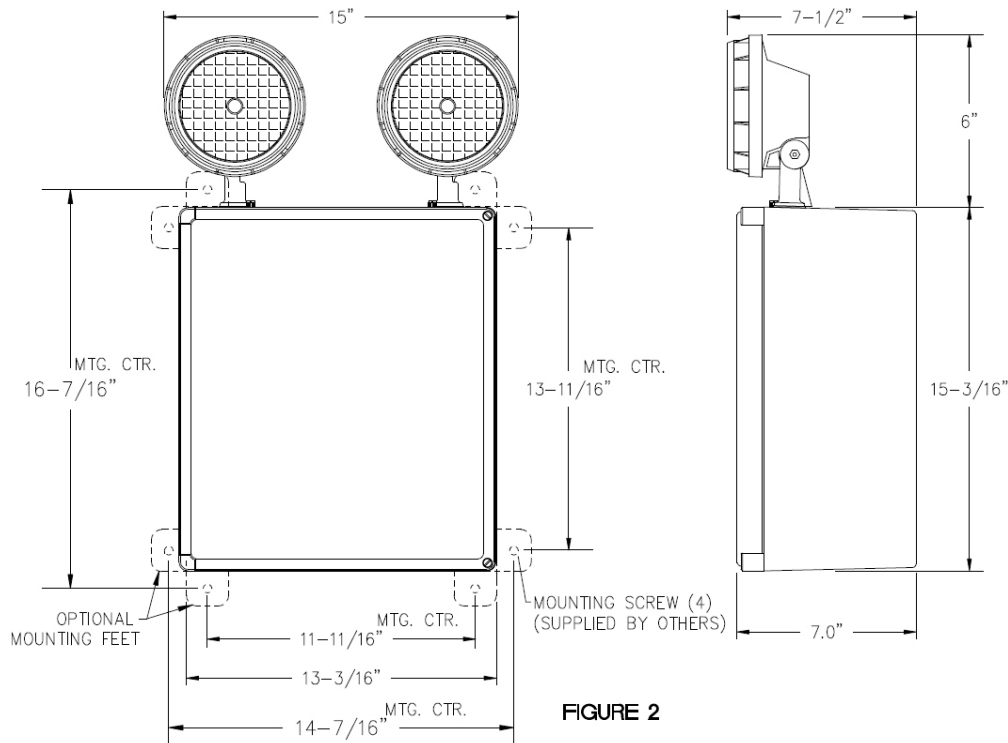
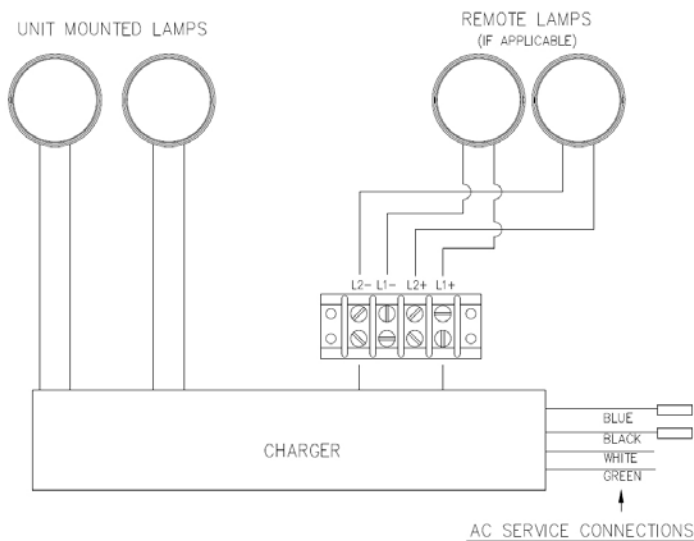


FIGURE 2

Hookup Instructions

1. Connect AC service to unit charger leads:
 - Blue wire = 277VAC
 - Black wire = 120VAC
 - White wire = Common
 - Green wire = Ground(Unused primary wire must be insulated to prevent shorting)
2. A dual load terminal block is provided for lamp hookup. Ensure total wattage of heads, both unit mounted and remote (if applicable), do not exceed unit rating. All remote loads should be wired to the terminal block at L1+/L2+ and L1-/L2- (See Figure 4). Use a wire gauge that limits voltage drop to an acceptable level (see “WIRING CALCULATIONS FOR VOLTAGE DROP PROTECTION”).
3. Adjust heads (if applicable) as follows: (See figure 4)
 - Rotation – Loosen head nut and rotate head to desired position. Retighten head nut. An anti-rotation screw has been provided to ensure proper rotation.
 - Angle – Loosen screw passing through head swivel sufficiently to allow internal teeth to disengage. Position head to desired angle.
 - Retighten both head nut and screw.
4. Connect battery(ies) to charger by inserting battery connector(s) onto batteries. (See figure 5).
5. Close cover and secure with provided screws (Qty. 2).



CONNECT REMOTE LOAD TO L1+/L2+ AND L1-/L2-
PER N.E.C. 501-4(b) AND 502-4(b) REQUIREMENTS.

FIGURE 3

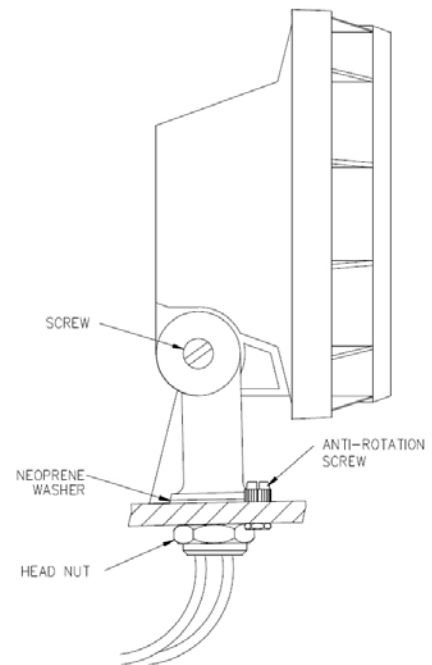
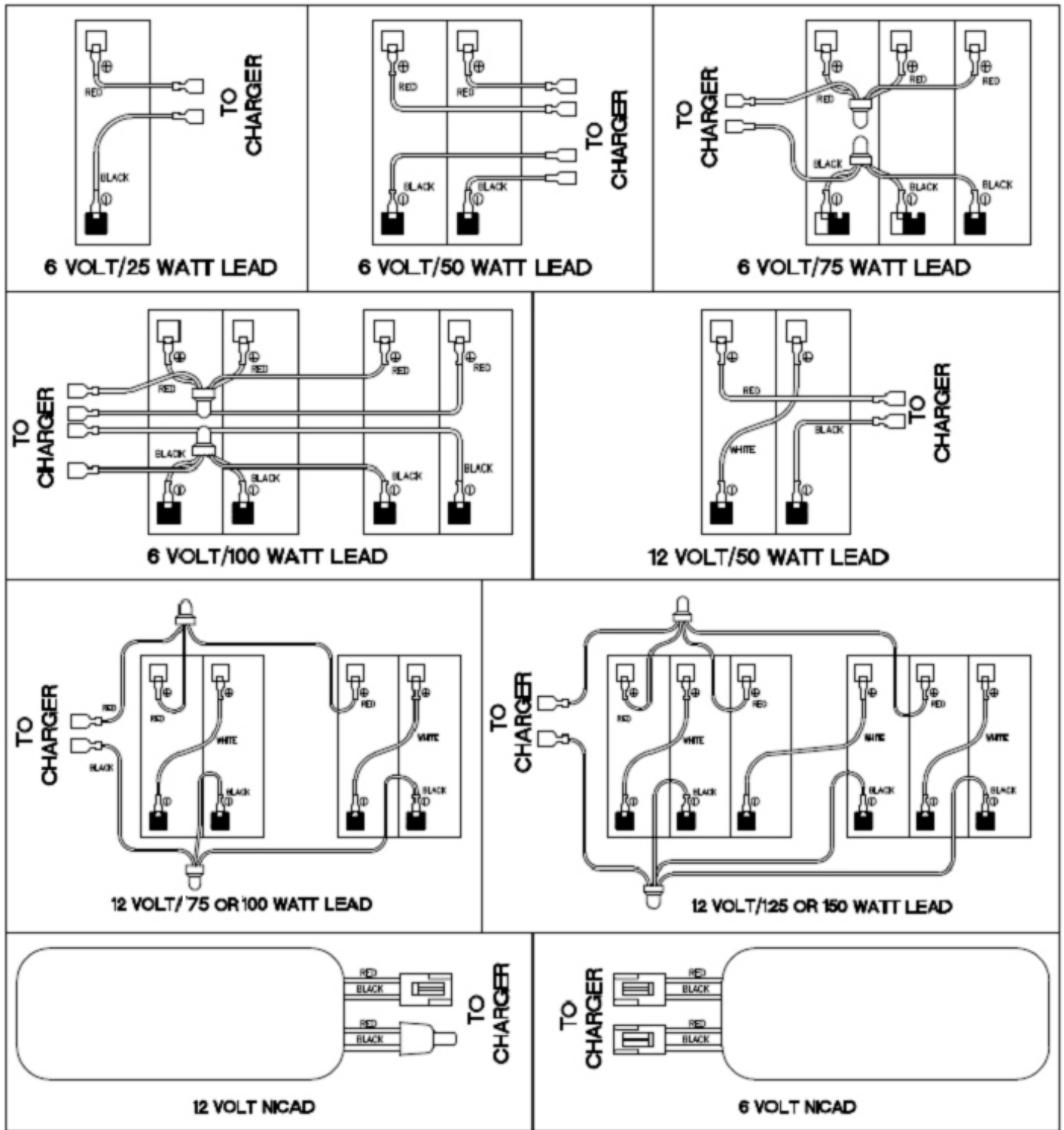
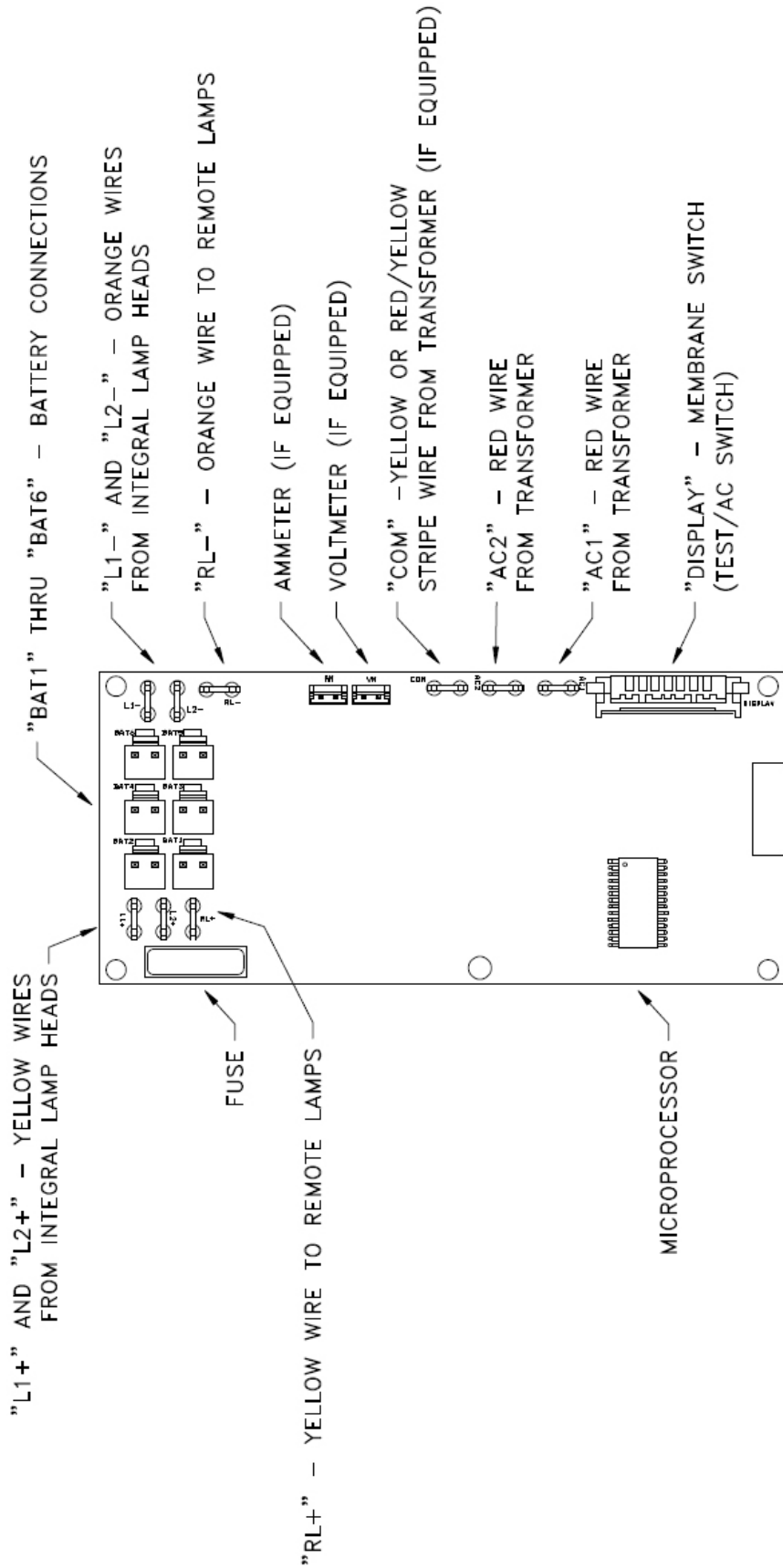


FIGURE 4

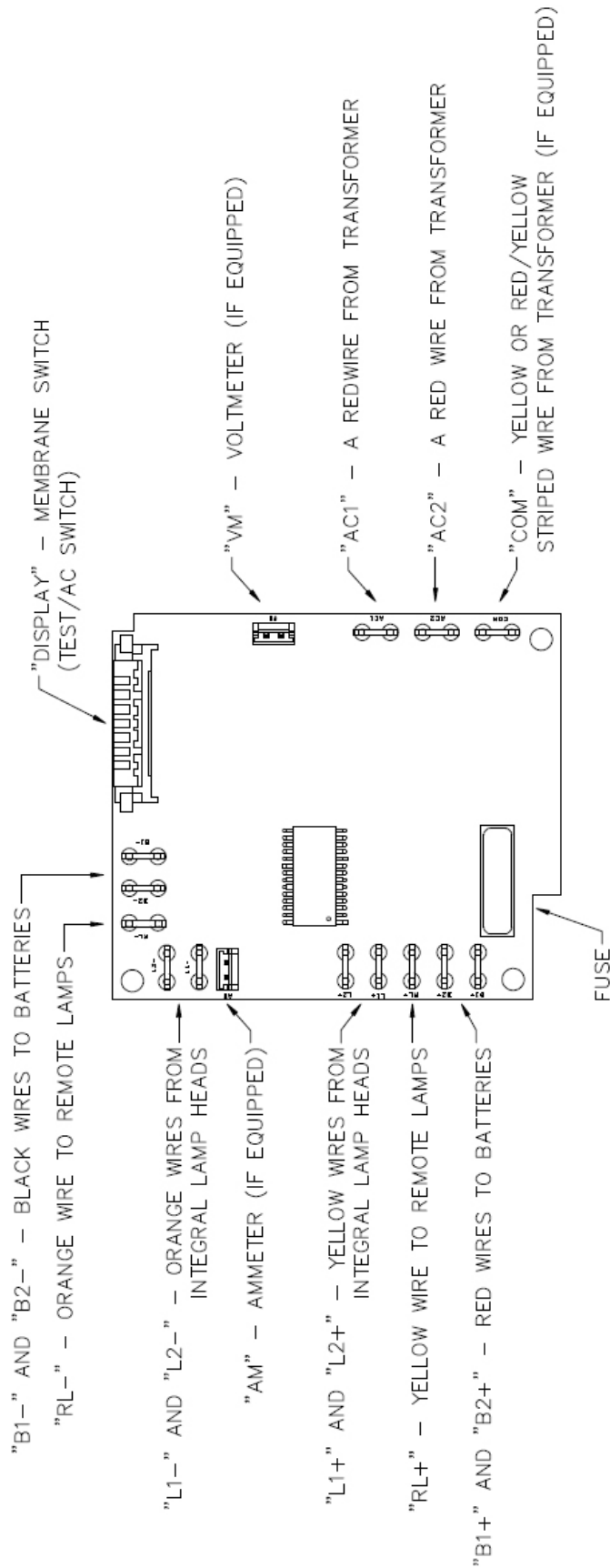


BATTERY HOOKUP CONFIGURATIONS

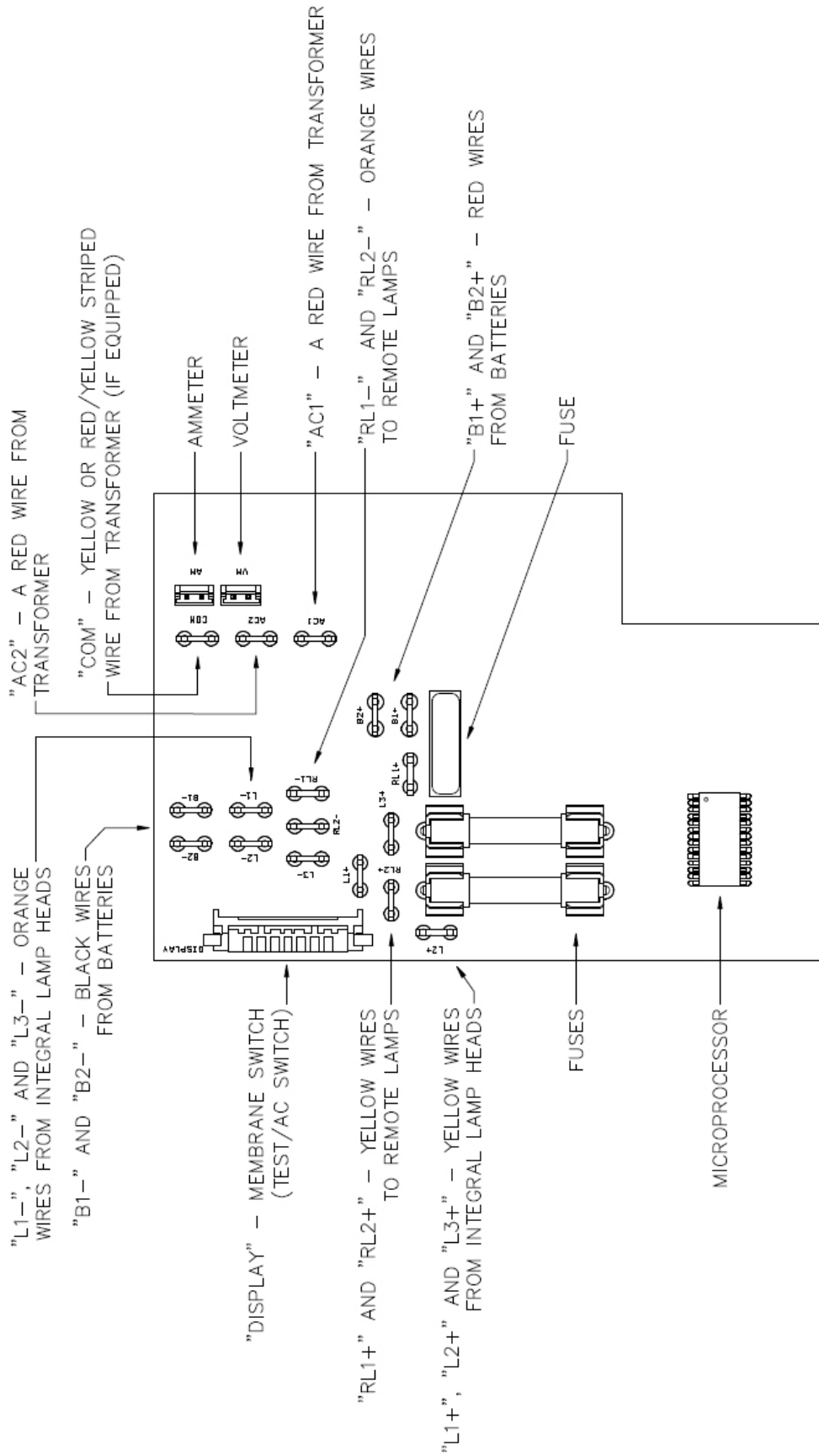
FIGURE 5



NICAD CHARGER BOARD



LEAD CALCIUM CHARGER BOARD 25 THROUGH 100 WATT UNITS



LEAD CALCIUM CHARGER BOARD 125 WATT AND UP UNITS

Self Diagnostic System Operation – Emergency Light or EXIT Sign Products

Normal Power Up Sequence

At power up the red and green LED indicators will alternately flash for one to two seconds. Next the product will execute a “Power Up Quick Test” causing the green LED indicator to flash rapidly. If any faults are detected during the “Power Up Quick Test” these will be evident by a flashing red LED indicator. If the audible diagnostic option has been ordered, the flashing red LED will be accompanied by a simultaneous beeping tone. **(Note: A continuous rapid alternating Red/Green flash with rapid beeping tone indicates 277V applied to 120V input lead. TURN OFF POWER IMMEDIATELY!)**

Emergency Operation

Emergency operation occurs when AC power fails. The product remains in emergency operation until AC power is restored or battery capacity is depleted. During emergency operation both red and green LED indicators are disabled.

User Interface

Green LED indicator

- Slow Flash/Continuous ON = AC power present; normal operating condition
- Rapid Flash = product performing an automatic or manually initiated diagnostic test

Red LED indicator

- Single Flash = battery fault
- Two Flashes = lamp failure (light bar failure – EXIT signs)
- Three Flashes = charger fault
- Four Flashes = transfer fault

(If more than one fault condition is present simultaneously, the red LED will flash the indication pattern for each fault independently then repeat the cycle.)






Pushbutton Test Switch

- Long Press (longer than 0.5sec) transfers product to emergency operation during time the button is pressed.
- Short Press initiates self diagnostic activities as follows:
 - One Press cancels diagnostic test presently running.
 - Two Presses starts a one minute diagnostic test.
 - Three Presses starts a 90 minute diagnostic test.
 - Four Presses conducts a lamp load calibration (emergency light products only).
 - Seven Presses initiates a system reset.

(Note: the microprocessor will allow up to seven, one minute diagnostic tests within the first 24 hours of operation. Allow 24 hours of charging before performing any long duration testing.)

Buzzer (optional)– Sounds in unison with the flashing red LED if a fault condition is present. Buzzer may be silenced for up to 196 hours by a short press of either the test switch or the optional IR remote control device “silence” button. Correcting fault condition will cancel fault notification. Lamp failure indication requires a manually activated diagnostic test after lamp replacement to cancel notification.

IR Remote Control (optional)- is a hand held device that allows remote activation of diagnostic testing and silencing of the optional buzzer during fault conditions.

 <p>SILENCE ALARM</p>  <p>1 MINUTE TEST</p>  <p>30 MINUTE TEST</p>  <p>90 MINUTE TEST</p>  <p>CANCEL</p>	<p>OPTIONAL REMOTE CONTROL</p> <p>Front</p> <p>Press appropriate button to perform the indicated test or silence the audible alarm.</p> <p>Cancel stops any test currently in process.</p>
<div data-bbox="261 968 639 1388" style="border: 1px solid black; padding: 5px;"> <p>System Reset: Two presses of "SILENCE ALARM" button followed by two presses of "CANCEL" button.</p> <p>Interpretation of flashing indicator lights on Equipment:</p> <p>Green LED Indicator:</p> <ul style="list-style-type: none"> • Steady On - Normal • Slow Flash - Battery Charging • Fast Flash - Unit is self-testing <p>Red LED Indicator:</p> <ul style="list-style-type: none"> • Single Flash - Battery Fault • Double Flash - Lamp Failure • Triple Flash - Charger Fault • Quad Flash - Emergency Transfer Failure <p>Red and Green LED indicators flashing together:</p> <ul style="list-style-type: none"> • Slow Flashing - Low Line Voltage • Fast Flashing - High Line Voltage <p>Unit Equipment Lamp Calibration</p> <p>Press "Silence Alarm" twice followed by one press of "Cancel" and one press of "Silence Alarm"</p> <p>For Service Call (910)259-1000</p> </div>	<p>Back</p> <p>Explanation of indicator light flash sequences.</p> <p>Refer to Table 2 above for further information.</p>