

COMMAND LIGHT

CL SERIES



Effective September 2023
This guide supersedes all previous versions

3842 Redman Drive
Fort Collins, CO 80524

MODELS COVERED:
CL605, CL607, CL611, CL615

1-800-797-7974
www.CommandLight.com

THANK YOU

Please allow us to express a simple thank you for investing in a **COMMAND LIGHT** product. As a company, we are dedicated to producing the very best and most versatile flood lighting package available. We take great pride in the quality of our work and hope that you will find many years of satisfaction from the use of this equipment.

Should you have any problems with your product please do not hesitate to contact us.



3842 Redman Drive
Fort Collins, CO 80524

PHONE: 1-800-797-7974
FAX: 1-970-297-7099
WEB: www.CommandLight.com



PERSONAL RESPONSIBILITY CODE

The member companies of FEMSA that provide emergency response equipment and services want responders to know and understand the following:

1. Firefighting and Emergency Response are inherently dangerous activities requiring proper training in their hazards and the use of extreme caution at all times.
2. It is your responsibility to read and understand any user's instructions, including purpose and limitations, provided with any piece of equipment you may be called upon to use.
3. It is your responsibility to know that you have been properly trained in Firefighting and/or Emergency Response and in the use, precautions, and care of any equipment you may be called upon to use.
4. It is your responsibility to be in proper physical condition and to maintain the personal skill level required to operate any equipment you may be called upon to use.
5. It is your responsibility to know that your equipment is in operable condition and has been maintained in accordance with the manufacturer's instructions.
6. Failure to follow these guidelines may result in death, burns or other severe injury.



Fire and Emergency Manufacturers and Services Association, Inc.
P.O. Box 147, Lynnfield, MA 01940 www.FEMSA.org

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⚠ WARNING Read this manual before installing or operating the *COMMAND LIGHT*.
Save this guide for future reference.

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COMMAND LIGHT 5 YEAR LIMITED WARRANTY

COMMAND LIGHT products* come with an industry leading 5-year warranty against any defects in materials and workmanship when used and operated for a period of five years. The responsibility of **COMMAND LIGHT** under this limited warranty is limited to the repair and replacement of parts found to be defective by **COMMAND LIGHT**.

Any parts damaged in shipping or by improper installation, overloading, abuse, or accident of any type or cause are not covered by this warranty. If equipment has been damaged in transit, a claim should be made against the carrier within three days, as we assume no responsibility for such damage.

If during this time period, you have any malfunctions not related to misuse, accident, neglect, or normal wear and tear, please take the following steps in order to have your light tower serviced under the **COMMAND LIGHT** warranty.

1. Contact us immediately for initial diagnosis at info@commandlight.com or 800-797-7974; or if parts are needed contact parts@commandlight.com.
2. You will need to have immediate access to the light tower and the serial number. This process can be done by individuals with little mechanical ability. (Involves pushing buttons and telling us what the light tower is doing or not doing)
3. We then send parts (if needed) and have an authorized technician dispatched (if needed) with a written work authorization number and a base number of hours allotted to do repair. Hourly rates for service are to be determined at the time of authorization by **COMMAND LIGHT**, travel time is paid at a maximum of 50% of the authorized service rate.
4. We remain available for service support via phone, email, or video conference while the technician completes the repair, also to extend the original time allotted if additional issues arise. Immediate support cannot be guaranteed unless a time is scheduled prior to service.
5. Let us know when the repair is completed and reference the work authorization number. Email an invoice to info@commandlight.com or parts@commandlight.com. If you are unable to create an invoice email us for instructions for payment. Make sure any parts we have requested to be returned have been shipped back to the provided shipping address. If a return label is issued it must be used.

6. Finally, we will pay by mailing a check or crediting the account of the person, department, or company doing the repair. Payments will not be made until all requested parts have been returned.

Please contact us as soon as problems arise in order to execute our warranty. We must have knowledge of the issue and provide a work authorization in order to pay or reimburse labor or travel time.

Any unauthorized service voids this warranty. No work is authorized until written consent is provided by **COMMAND LIGHT**.

Contact Us Early — before any work is done — We'd love to help!

*Excludes light producing components (bulbs, lasers, LEDs) These components may come with their own manufacturer warranty. Contact us and we can help get it.

Breakage or Damage During Shipment

The transportation company is fully responsible for all shipping damage and will resolve problems promptly if you handle it correctly. Please read these instructions carefully.

Examine the contents of all shipping cases. If you find any damage, call your transportation agent at once and have them make a description on the freight or express bill describing the damage and the number of pieces. Then contact us and we will send you the original bill of lading. Also promptly contact the transportation company and follow their procedure for filing a claim. Each company will have a unique procedure to follow.

Please note, we cannot and will not enter claims for damages. If we filed a claim here, it would be sent to your local freight agent for verification and investigation. This time can be saved by you filing the claim directly. Every consignee is on the ground floor, in contact with the local agent who inspects the damaged goods, and thus, each claim can be given individual attention.

Since our goods are packed to comply with the regulations of all railroad, truck, and express companies, we cannot allow deduction from any invoice because of any damage, however, be sure to file your claim promptly. Our goods are sold F.O.B. factory. We take receipt from the transportation company certifying that the goods were delivered to them in good order and our responsibility ceases.

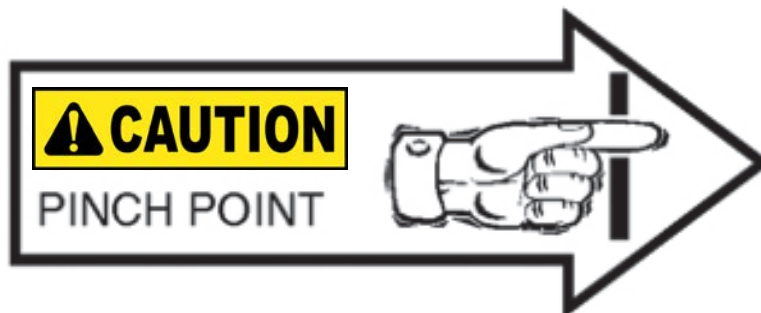
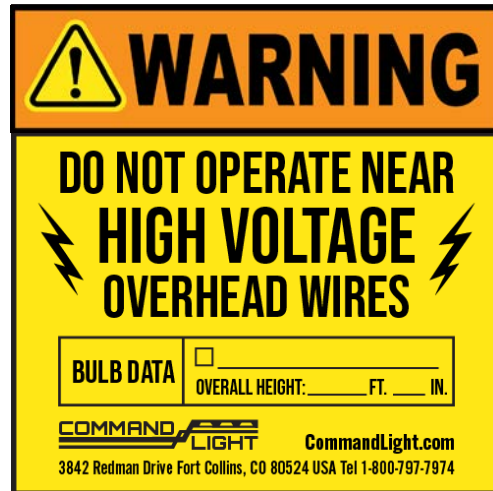
It is seldom that any breakage or damage occurs in any of our shipments and in no case will the customer be out any expense if they follow the above instructions.

Be sure to keep all damaged goods subject to examination of the truck or express company inspector, who may call on you sometime later. These damaged goods, of course, will belong to them, and they will inform you what to do with them. If you dispose of these damaged goods, your claim may not be paid.



Product Safety Precautions

- ⊗ Never operate the **COMMAND LIGHT** near overhead high voltage power lines. The **COMMAND LIGHT** is manufactured from electrically conductive materials.
- ⊗ Do not use the **COMMAND LIGHT** for uses other than its intended purpose.
- ⊗ Do not move emergency vehicle with the light extended. Visually verify that the light is completely nested before moving vehicle.
- ⊗ Do not change light position while people are located within its operating envelope. There are numerous pinch points that can cause serious bodily injury.
- ⊗ Do not use a high-pressure washer or subject the light to high volumes of water when cleaning.
- ⊗ Never use the **COMMAND LIGHT** as a lifting device or mobile arm.
- ⊗ Do not use a **COMMAND LIGHT** that has been damaged or is not fully functional, including non-working indicator lamps.
- ⊗ Never hold any part of the **COMMAND LIGHT** with a hand or foot while it is in motion.
- ⊗ The **COMMAND LIGHT** has numerous pinch points. Keep loose clothing, hands and feet clear of moving parts.



General Description and Specifications

The **COMMAND LIGHT** is designed to provide high intensity emergency scene lighting with quick precision. As with any electromechanical device, take precautionary steps to assure safe operation.

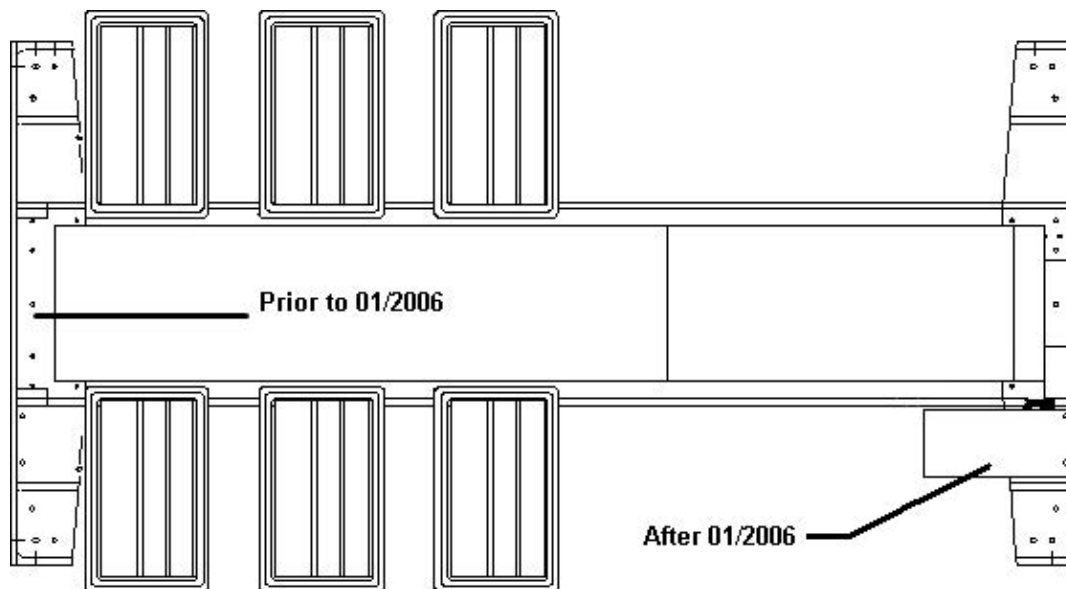
⚠ WARNING Never operate the **COMMAND LIGHT** near overhead power lines.

There are several standard lighting options available for the **COMMAND LIGHT**.

| Model # | Description | Minimum Power Requirements |
|---------------|----------------|----------------------------|
| CL605A | 6 x 500 Watts | 3KW, 110 or 240 VAC |
| CL607A | 6 x 750 Watts | 5KW, 110 or 240 VAC |
| CL611A | 6 x 1000 Watts | 6KW, 240 VAC |
| CL615A | 6 x 1500 Watts | 9KW, 240 VAC |

The emergency vehicle generator provides power for the 110/240 VAC circuitry. All mechanical actuation is powered by an internal power supply. The umbilical corded control unit is powered via 12 VDC eliminating hazardous voltage levels within the hand held control box.

The **COMMAND LIGHT** is manufactured to provide years of service with a minimum of maintenance.



SERIAL NUMBER LOCATION

Operation

Raising the light from the nested position

Using the control box, raise the lower or upper stage. You may also activate both stages simultaneously. Control switches are of momentary action style and must be held in the “on” position to actuate the stages.



The **COMMAND LIGHT** has an override system that precludes rotation of the upper stage until the lower stage has elevated approximately 16" from the nested position. When the lower stage is below 16" the following conditions exist:

- Upper stage is prevented from rotating.
- All lights are turned off, including strobe light if equipped, regardless of light switch positions.
- Prevents the upper stage from moving down if upper stage is not centered.

If the supply from the generator is marginal, position the **COMMAND LIGHT** before turning on lights.





Returning the light to the nested position

The **COMMAND LIGHT** is equipped with an Autopark function as a standard feature. The “P” button on the control box initiates the Autopark sequence. Once initiated, the “Emergency Stop”  button indicator is illuminated. Pressing the “Emergency Stop”  button will cancel the Autopark sequence.

Autopark Sequence

Press green button on the controller once. It does not need to be held in position. The Autopark sequence begins:

1. “Emergency Stop”  light is illuminated.
2. Lamps are extinguished.
3. Upper stage begins rotation to the center position. If equipped with back light option, back light begins oscillation and returns to the home position.
4. Once upper stage is centered, rotation stops, lower stage begins retracting.
5. After lower stage has fully retracted, upper stage begins retracting. Upon upper stage retracting fully, “Emergency Stop”  light turns off.

Installation

The **COMMAND LIGHT** must be installed by a designated installation facility by qualified personnel only. All safety precautions must be thoroughly understood before installation. Please consult the factory for additional installation information assistance.

Installation Kit


Included with the **COMMAND LIGHT** is an installation kit. Verify that the kit contains the following items:

- | | |
|--|--|
| (1) 50 feet of 8GA-4 Conductor power cable | (1) 50 feet of 22GA-20 conductor cable |
| (1) Pre-wired HOLSTER BOX w/cover | (1) Handheld Controller |
| (1) Lifting sling | |
| (1) Small hardware parts bag with: | |
| (4) mounting spacers | (4) 3/8-16 X 2 1/2" bolts |
| (4) 3/8-16 nylon lock nuts | (8) 3/8" flat washers |
| (4) large diameter flat washers | (2) 1/4-20 X 5/8" Phillips pan head machine screws |
| (4) 1/4" flat washers | (2) 1/4-20 nylon lock nuts |
| (1) 1/2" 90° sealing connector w/nut | (1) 1" 90° sealing connector w/nut |
| (4) screw pin clevis | |

Tools Required

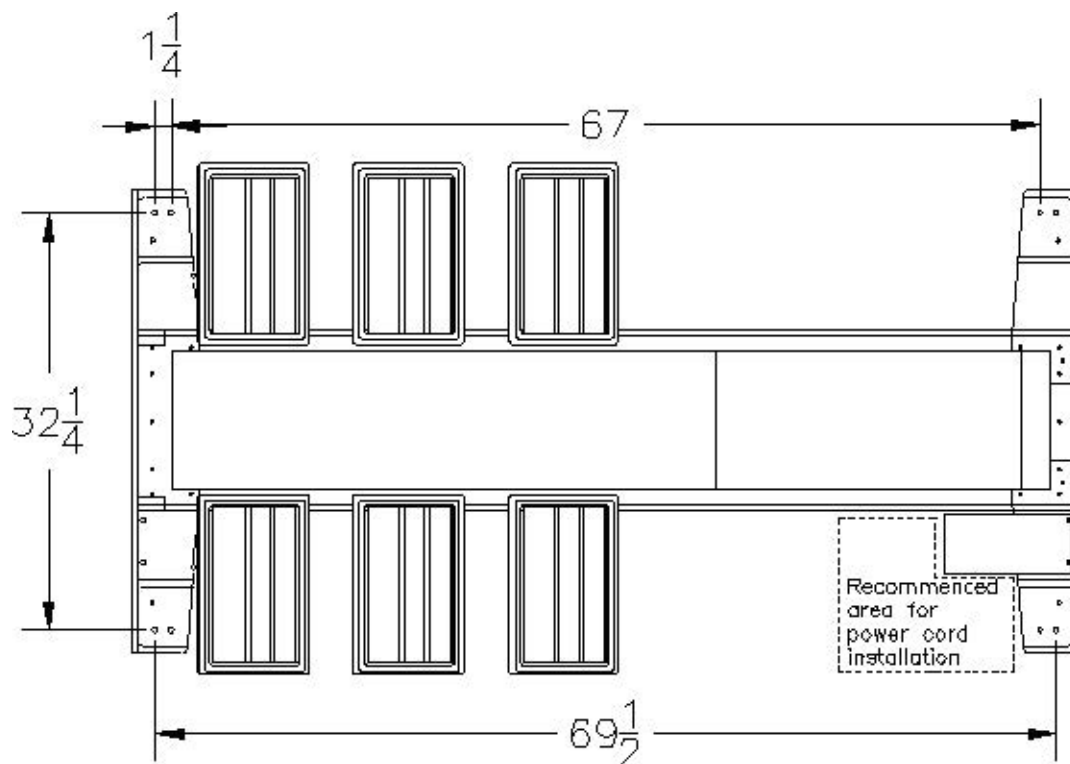
Lifting device (crane, forklift, block and tackle, etc.)
Sling for lifting (included with light)
Drill
13/32", 17/64" drill bits
Hole punch for metal with 7/8" and 15/16" diameter capacity
Phillips head screwdriver, #2
COMMAND LIGHT flat blade screwdriver (included with light)
9/16" and 1/2" combination wrenches and/or ratchet and 9/16" and 1/2" sockets
8" adjustable wrench
Tongue and Groove Pliers
Wire stripper or razor blade knife
Solder-less wire connector crimp tool
Silicone based gasket sealer, RTV™ recommended

Installation Notes

-  The **COMMAND LIGHT** weighs approximately 300 pounds. Use mechanical assistance to lift the light into installation position such as a forklift or crane.
- Use the provided sling to grasp the light.
- Use the provided fender washers under the mounting surface to distribute the weight load evenly.
- When routing the connecting electrical wires take care to avoid sharp bends, hot components or other hazards to the wire.
- The **COMMAND LIGHT** is not designed to be operated in a raised position while the vehicle is in motion. The **COMMAND LIGHT** includes warning circuit wiring to enable a warning device.

Location Requirements

The standard **COMMAND LIGHT Models 605,607,611,615** models can be mounted on any location that is 73" x 36". The surface should be flat or have only a slight crown. For a recessed installation allow for a minimum of 86" x 48". Consult with factory before construction of recessed installation. Verify all dimensions before installation to assure proper operation of light will not infringe on other installed components. For all other installations refer to the dimensional drawing on page 22 of this guide that represents your particular model of light. The drawings reflect the dimensions of the "working envelope" of a typical light. Make certain sufficient clearances are incorporated in your installation to allow for variations (vehicle body flex, environmental conditions, future servicing needs, etc.) If your light is not represented, call the factory prior to beginning any construction of a recessed installation.



Four mounting bolt holes are required. Eight holes are provided to allow the installer to avoid obstructions when mounting the light. Additional holes may be drilled in the frame ends if necessary to clear obstructions.

Access holes for the power cord cabling should be in close proximity to the entrance box on the light. Installing the cords with a sweeping 90° or 180° bend will provide better results.

The control box holster should be mounted in an area shielded from the weather. Allow a minimum of 10" clearance above the control box holster mounting location for easy access to the controller.

Mounting

Place the provided spacers in the location of the light mounting holes. The spacers may be modified to conform to the contour of the mounting location.

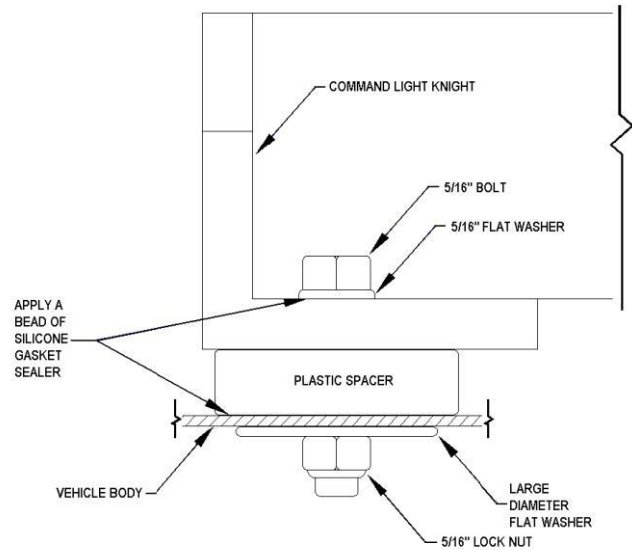
Remove any obstructions below the mounting surface such as headliners.

Attach any necessary lifting attachments to the **COMMAND LIGHT**. The center of gravity (balance point) is slightly behind the lower bank of lights.

⚠ CAUTION Slowly lift the **COMMAND LIGHT** and check for balanced lifting. Lower and make any necessary adjustments to the lift points.

Slowly lift the **COMMAND LIGHT** and check for balanced lifting. Lower and make any necessary adjustments to the lift points.

Lift and place the **COMMAND LIGHT** into position above the spacers. Before placing the full weight of the unit on the spacers align spacers with the holes in the end frame castings. Drill $13/32$ " holes in the mounting surface using the end casting holes as a template.



Fasten the light using the provided hardware. To assure a weather-tight installation apply a thin bead of silicone based gasket sealer to the base of the spacer and underside of bolt head.

Remove any lifting straps and devices from the **COMMAND LIGHT**.

Locate and drill the wire feed holes.

Control Box Holster Mounting

Using the holster as a template, mark hole locations.

Drill $17/64$ " mounting holes.

Drill any holes required to route the control wire from the control box to the **COMMAND LIGHT** unit. Mount holster box with provided hardware.

Electrical Wiring

Please Note: Detailed internal wiring schematic for the light is found in the supplement pages found at the end of this document.

Run the control wire from the control box holster to the **COMMAND LIGHT**.

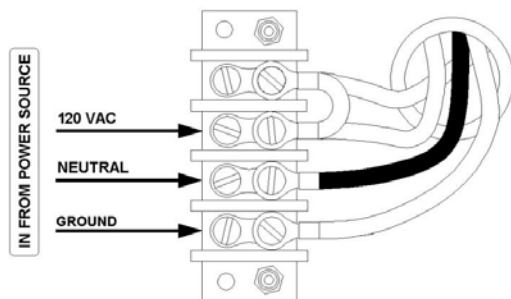
Run the power wire from the breaker box or generator to the **COMMAND LIGHT**. A 40 Amp breaker is recommended on AC models.

Make the control connections in the **COMMAND LIGHT** entrance box. To simplify installation remove the connector hold down screws and pull the connector out of the box slightly.

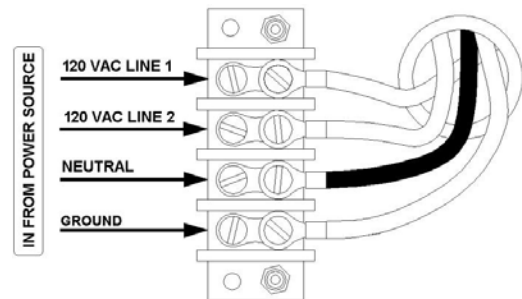
The Model CL605/607 series **COMMAND LIGHT** comes pre-wired to connect to 120 VAC. A 40 Amp breaker is recommended.

The Model CL611/615 series **COMMAND LIGHT** comes pre-wired to connect to 240 VAC. A 50 Amp breaker is recommended.

120 VAC Wiring Diagram



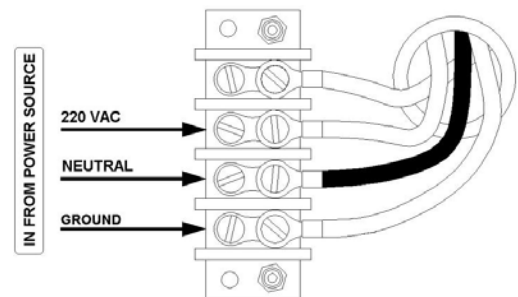
240 VAC Wiring Diagram



If 240 VAC operation is desired, remove the jumper wire between the red and black leads.

220 VAC European Wiring Diagram

If the light tower is ordered with 220 VAC (Single Hot Leg) wiring, only use a single hot conductor from the power source, the other is not needed.



Holster Wiring

Determine if an elevated warning device will be used in conjunction with the light tower. If a warning device will be used, use the wiring diagram on the next page, otherwise, use the wiring diagram in the back of the user guide.

After routing the control cable into the holster through the sealing connector, attach individual wires to the provided connectors and insert the connectors into the proper ports on the circuit board.

Warning Device Installation

Tools Required:

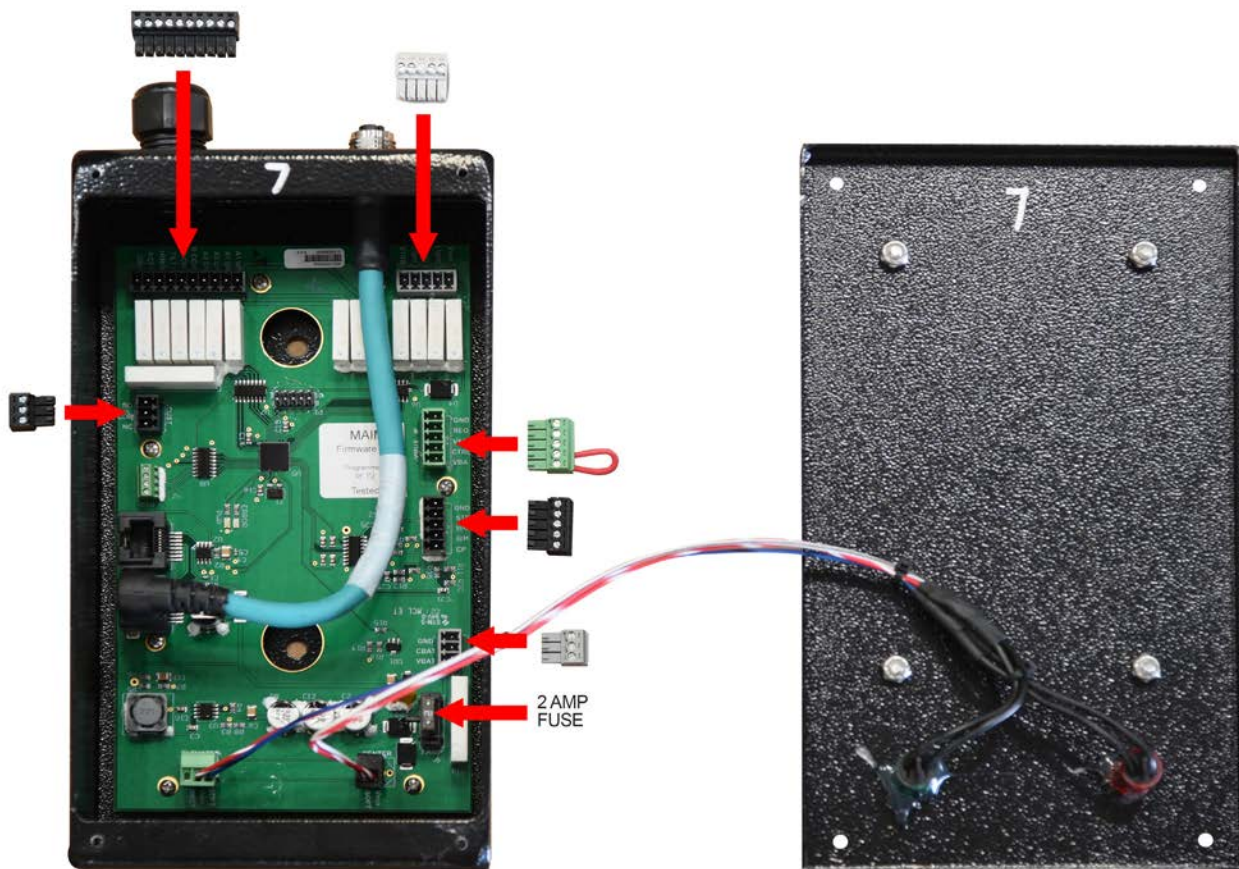
- $\frac{3}{32}$ " Flathead Screwdriver
- Wire Strippers
- Small Torch or Lighter



Make sure Truck 12V power is OFF
until wiring is complete at the holster
circuit board and the light tower.

Incorrect wiring or live wires during install can cause damage to circuitry.

Wire the gray 22-20 control cable wires to the small connectors using the wiring schematics provided on pages 41 and 42. There are 2 different schematics, one is the standard version and the other is the version for dual control with wireless controllers or V-Mux control. The standard schematic will be used for V-Mux or any other multiplex system if it is only being used for elevated warning. A V-Mux wiring schematic and circuit board troubleshooting guide are included.



Detaching & Attaching the Controller



Make sure the tab on the coil cord connector lines up with the slot on the controller connector. Rotate the coil cord connector clockwise until finger tight. **DO NOT** use tools to tighten this connector.

Maintenance

Bulb Replacement

Tools required:

Clean oil-free cloth, Cleaning alcohol

Replacement bulbs:

Model 605 bulbs 500 watt, Q500T3/CL

Model 611 bulbs 1000 watt, Q1000T3/CL

Model 607 bulbs 750 watt, Q750T3/4CL

Model 615 bulbs 1500 watt, Q1500T3/CL

Bulbs are available from General Electric, Sylvania, Phillips, Grainger or direct from **COMMAND LIGHT**.

Position lamp tree so lamps are readily accessible. This is usually with the lower stage in the retracted position and the upper stage extended to 90°.

Disconnect the power supply from the **COMMAND LIGHT**. Allow sufficient time for lamps to cool. The surrounding metal lamp housing can cause serious burns.

⚠ CAUTION Be certain that the bulb is cool to the touch before handling. Do not touch the bulb directly. Use a clean oil-free towel to handle the bulb. Handling the bulbs directly leaves minute traces of skin oils that cause localized hot spots that can lead to early bulb failure. Bulb surfaces may be cleaned with alcohol.

Latch the bezel making sure that the weather stripping is properly fitted. Weather stripping must be properly installed to ensure lamp water tightness.

Cleaning

The **COMMAND LIGHT** is constructed with corrosion resistant aluminum and stainless steel fasteners. To further enhance corrosion resistance all exposed surfaces receive a powder coated paint finish. To assure years of trouble free service periodically clean all external surfaces with a mild detergent solution and a gentle spray of water. **DO NOT USE A HIGH-PRESSURE WASHER**, which will force water into sensitive electric circuitry.

Lamp lenses may be cleaned with any commercially available glass cleaner.

Upper and lower stage actuators are sealed units and do not require adjustment or lubrication. The actuators have slip-clutches to compensate for minor stroke tolerances at the limits of its travel as well as internal limit switches. The actuator may produce a ratcheting sound at each end of the stroke which is normal. The actuators should not be made to ratchet excessively, this can lead to premature actuator clutch failure.

All pivot points on the **COMMAND LIGHT** are self-lubricating thermal polymer. Periodic cleaning with a moisture displacing cleaner and soft bristle brush, without disassembly, to remove accumulated dirt and debris will minimize wear.

Rotation Motor Replacement

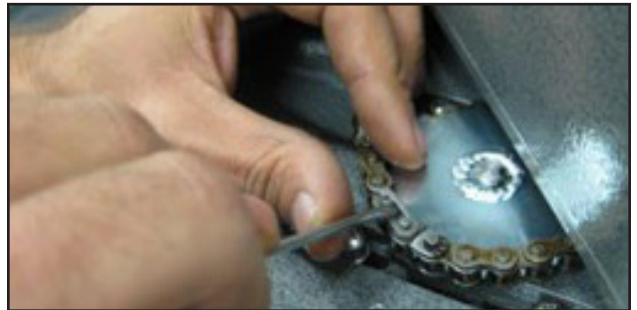
1. Raise the lamp tree fully. Loosen the center switch screw. Take off the midplate covers. Carefully remove the smaller cover, maneuvering around the Truck sensor and wire.

Center Switch Screw



2. Loosen the motor screws enough to slide back and forth. Rotate the upper lamp tree and locate the master link in the rotation chain. Position the master link to an available and comfortable place to remove. Once disconnected, remove chain.

Note: The upper lamp tree will now rotate freely.



3. Using a 3/32 allen wrench, Remove the two set screws in the small sprocket. Gently pull off the small sprocket.



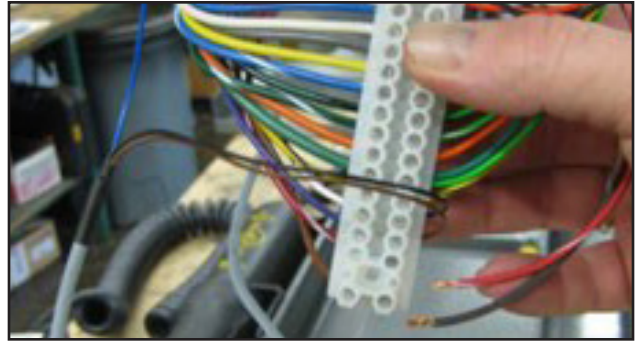
4. Remove the bottom motor box cover. Carefully pull out the pole strip and all connected wires.
5. Follow the two motor wires down to the pole strip and disconnect. Brown wire (negative) red/white wire (Positive).

Note: The same wires that come off the old motor will be the same wires you use for the new rotation motor.



Swap the wires from the old motor to the new motor. Now the new motor can be installed.

6. Attach the wires to the new motor (the brown is negative and the red/white is positive) and connect them to the pole strip. Place the motor back into the housing and screw in all four screws. Rotate the motor so the key stock slot is facing you.



7. Place the small sprocket back on the motor and put in the keystick. Use blue Loctite on the set screws tightening them as much as possible.



8. If not already, loosen up the four motor screws to let the motor slip for adjustment. Wrap the chain back around the sprockets bringing the ends together.

Note: Be sure the half-link is on the right hand side with the small cotter pin facing upwards.



9. Using a small pry bar or a screw driver, put pressure on the small sprocket pushing it away and tightening the chain. Tighten down the four motor screws.



Now the bottom box cover can be put back on after placing all the wires back in place. The mid plate covers can now be put back on also.

Note: After motor replacement is completed, the center switch and the safety switch will need to be adjusted.



Center Switch Adjustment

Exercise caution when performing the following procedure. There are numerous pinch points that can cause severe injury. Adjustment should be performed by qualified personnel.

1. Raise lamp tree fully. Raise lower stage enough to comfortably work on. Verify lower stage is above the safety limit, lamps can be illuminated.
2. Visually inspect the screw on the rotation platform to be sure it is activating the Turck sensor. The green light on the sensor indicates it has power. The orange light indicates the sensor is activated.
3. Rotate off center. Activate Autopark and let light tower proceed through sequence until the lamp tree is a couple inches above the nested position, hit Emergency Stop.
4. Visually determine which side the lamp tree will be hitting the nest pad.
5. Raise lower section above safety limit and to comfortable working height.
6. Loosen screws on center switch bracket slightly.
7. Tap center switch bracket slightly toward the side that the lamp tree is hitting on.
8. Fully tighten the screws holding the center switch bracket.
9. Raise lamp tree all the way up, rotate off center.
10. Press the Autopark button and let light tower proceed through sequence until the lamp tree is a couple inches above the nested position, hit Emergency Stop.
11. If it looks like center is now adjusted properly, raise light tower all the way up one last time and press Autopark and let it go through the entire sequence.
12. If it is still hitting off center, repeat steps 3-11. If problems adjusting center still persist you may need to adjust the height on the set screw, or call Command Light at 1-800-797-7974 to order a new switch part number 065-12884.

Light Tower is Not Finding Center

1. Visually check to see if the orange indicator light is activating with metal in proximity and that the green light is on constantly.
2. Check continuity of white/black wire in relay box to the connection point in the box below the mid-plate. White/black should connect to the black wire from the Turck sensor.

Power Failure

The **COMMAND LIGHT** can be retracted manually if power to the unit is lost. If power loss is temporary, reestablishing power may be easier than manually retracting the light.

 **WARNING** Disconnect power source from the **COMMAND LIGHT** before manual operation.

WATCH THE VIDEO AT WWW.COMMANDLIGHT.COM/TECHNICAL-VIDEOS/

Rotate to center

Slowly apply pressure to the rotation platform to manually rotate to the centered position. Trying to rotate the platform too quickly or with too much pressure can break the rotation motor shaft. Be certain that you rotate the platform in the proper direction. The upper stage can rotate a full 360°. Generally you need to rotate the platform in the direction that requires the least amount of travel in order to center the platform.

Retract the Lower Stage

Locate the silver plug located on lower actuator below the lower actuator's motor. Use the provided hex tool to remove silver plug. Be sure to not lose this plug. Use the same hex tool inserted into the opening to drive the internal gears of the actuator. Be sure to replace the silver plug after this actuator is fully retracted. Be careful not to hit the lower lamps on main electrical box if your tower has the Backlight option and the lamps are not flush with the fixed lamps.

Retract The Upper Stage

To access the upper actuator mechanism it is necessary to remove the main cover. Remove the 16 screws using a #2 Phillips head screwdriver. There are 12 screws on top and 2 on either end of the main cover. Use the same hex bit and method as above in "***Retract The Lower Stage First***" to retract the upper actuator.

Troubleshooting

| Problem | Possible Cause | Solution |
|--|--|--|
| Unit will not extend | No power to the unit | Check power input connections. |
| | Incorrect installation | Refer to installation instructions. |
| Upper stage will not rotate | Lower stage not raised above safety limit (16" above base) | Raise lower stage higher. |
| | Rotation motor failure. | Consult with factory. |
| Lights will not illuminate. | Lower stage not raised above safety limit (16" above base) | Raise lower stage higher. |
| | Circuit breaker tripped. | Check circuit breaker at power supply. |
| | No power to the unit. | Check power supply operation/output. |
| | Lamp filament broken. | Replace lamp. |
| Rotation coasts after switch is released | Drive chain out of adjustment | Adjust belt to provide no more than 1/4" slack |
| Unit will not nest | Upper stage not centered. | Raise lower stage higher than 16". Center upper stage (green light illuminated) |
| | Unit being operated on a slope >5°. | Lower lamp tree to horizontal. Using a pike pole, hold unit level while lowering to nest position. |
| Autopark button must be held in to park unit | Improper or faulty ground | Check nest switch ground and operation. Test red/green wire for 12VDC. |
| | Water in electronics. | Remove moisture from ground points and electronics. Do not use a pressure washer to clean unit. |
| Upper Actuator & Rotation start at the same time | Check down limit sensor. | Contact factory for replacement part. |
| Wires on back light catching | Check for 90 degree sealing connector on lamp tree. | Contact factory for replacement part. |
| No lights or rotation | Check safety limit sensor, bad, etc. | Contact factory for replacement part. |
| Autopark is off Center | Center switch out of alignment. | Refer to instructions on page 17 |
| Popping noise coming from back light | Drive belt loose, switch hoods stuck, faulty rotation relay. | Adjust belt for minimal play. Replace switch hoods. |



PWR AND ERROR LED GUIDE BOARD REV 5. MAIN BOARD 5.3, FIRMWARE 4

| | | |
|--|---------------------------------|---|
| <div>PWR</div> <div>ON</div> | <div>ERROR</div> <div>OFF</div> | <p>READY TO GO</p> |
| <div>PWR</div> <div>OFF</div> | <div>ERROR</div> <div>OFF</div> | <p>NO POWER AND/OR NO GROUND AT EITHER CBAT OR VBAT TERMINALS CHECK VBAT, CBAT, AND GND TERMINALS. SHOULD HAVE 12-18 VDC</p> <p>CHECK 2 AMP FUSE AT MAIN BOARD</p> |
| <div>PWR</div> <div>FLASH 1X PAUSE FLASH 2X PAUSE REPEAT</div> | <div>ERROR</div> <div>ON</div> | <p>ERROR CODE 12 NO CBAT POWER AT 3 PIN GRAY CONNECTOR "CBAT" TERMINAL, COMMAND LIGHT IS NOT POWERED. CHECK FOR 12VOLTS AT GRAY 3 PIN CONNECTOR, TERMINAL CBAT.</p> |
| <div>PWR</div> <div>FLASH 1X PAUSE FLASH 3X PAUSE REPEAT</div> | <div>ERROR</div> <div>ON</div> | <p>ERROR CODE 13 COMMUNICATION ERROR BETWEEN MAIN BOARD AND KEYPAD BOARD. CHECK ALL CAT 5 CONNECTIONS BETWEEN THE MAIN BOARD AND THE KEYPAD BOARD INCLUDING COIL CABLE.</p> |
| <div>PWR</div> <div>FLASH 1X PAUSE FLASH 4X PAUSE</div> | <div>ERROR</div> <div>ON</div> | <p>ERROR CODE 14: WILL ONLY ERROR ON FIRST LOGIN ATTEMPT AND DOES NOT REPEAT. YOU MUST LOOK FOR THIS ERROR CODE AS YOU ARE TRYING TO LOGIN TO THE DEVICE. INDICATES THAT COMMAND LIGHT CONTROLLER DOES NOT HAVE CONTROL OF THE SYSTEM. - IF USING VMUX - CHECK GREEN 5 PIN CONNECTOR "VMUX IF" FOR 12 VOLT POWER AT THE "CTRL" TERMINAL. IF NO, CHECK VMUX DUAL CONTROL BOARD.</p> <p>IF NOT USING VMUX, ENSURE BLACK/WHITE WIRE IS TERMINATED INTO THE CTRL TERMINAL AND THAT THIS TERMINAL HAS 12VDC.</p> |

Technical Specifications – Standard AC Models (CL605/607/611/615)

Dimensions (with strobe and ½” mounting spacers)

| | Height(Depth) | Length | Width |
|------------------------------|---------------|--------|-------------|
| Retracted | 12.75" | 74" | 40" |
| Extended | 10'-7" | 80" | 40" |
| Recessed installation | 12.75" | 86" | 48" Minimum |

Weight: 306 pounds

Wiring:

| | | |
|-----------------------|--------------------|--------------|
| Main Power VAC | 8/4 SO cord | 50' provided |
| Control wiring | 22/20 PVC Jacketed | 50' provided |

Relay protection:

| | | | |
|-------------------------|-------------|------|--------|
| Lights | Cole-Hersey | 3055 | 40 amp |
| Other electrical | Cole-Hersey | 3055 | 40 amp |

Current Draw / Power Requirements:

| | Average | Generator Requirement |
|------------------------|-----------------|-----------------------|
| 500 Watt bulbs | 115 VAC/25 amps | 4 kW minimum |
| 750 Watt bulbs | 115 VAC/41 amps | 5.5 kW minimum |
| 1000 Watt bulbs | 230 VAC/28 amps | 6 kW minimum |
| 1500 Watt bulbs | 230 VAC/40 amps | 10 kW minimum |

Lift actuators and rotation motor will cause higher current draw during use.

Motor Duty Cycle:

(All motors thermally protected, specifications are to thermal relay trip):

| | |
|--------------------|---------------------------------------|
| Lower stage | 1:3 (90 seconds maximum per 5 minute) |
| Upper stage | 1:3 (90 seconds maximum per 5 minute) |
| Rotation | 5-6 Revolutions |

Motor Speed:

| | | |
|--------------------|-----------------------|------------------------------|
| Lower stage | 1.0 inches per minute | 12 seconds to full extension |
| Upper stage | 0.5 inches per minute | 12 seconds to full extension |
| Rotation | 2.75 RPM at lamp tree | |

Operation:

| | |
|-------------------------|---------------------|
| Angle of vehicle | 15° maximum incline |
|-------------------------|---------------------|

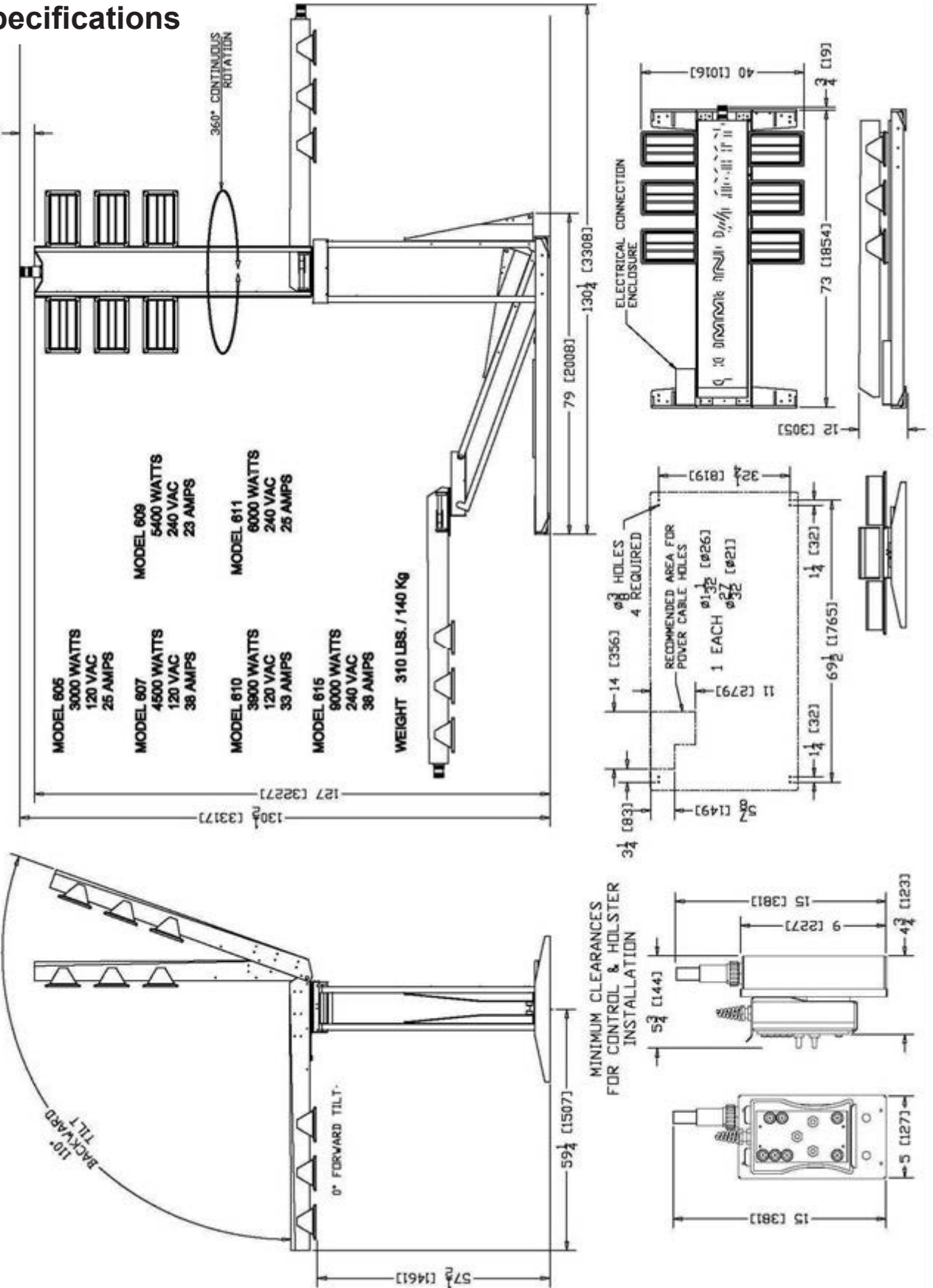
Wind load:

| | |
|-----------------------|--------|
| Design maximum | 60 mph |
| Maximum tested | 55 mph |

Specifications

COMMAND LIGHT

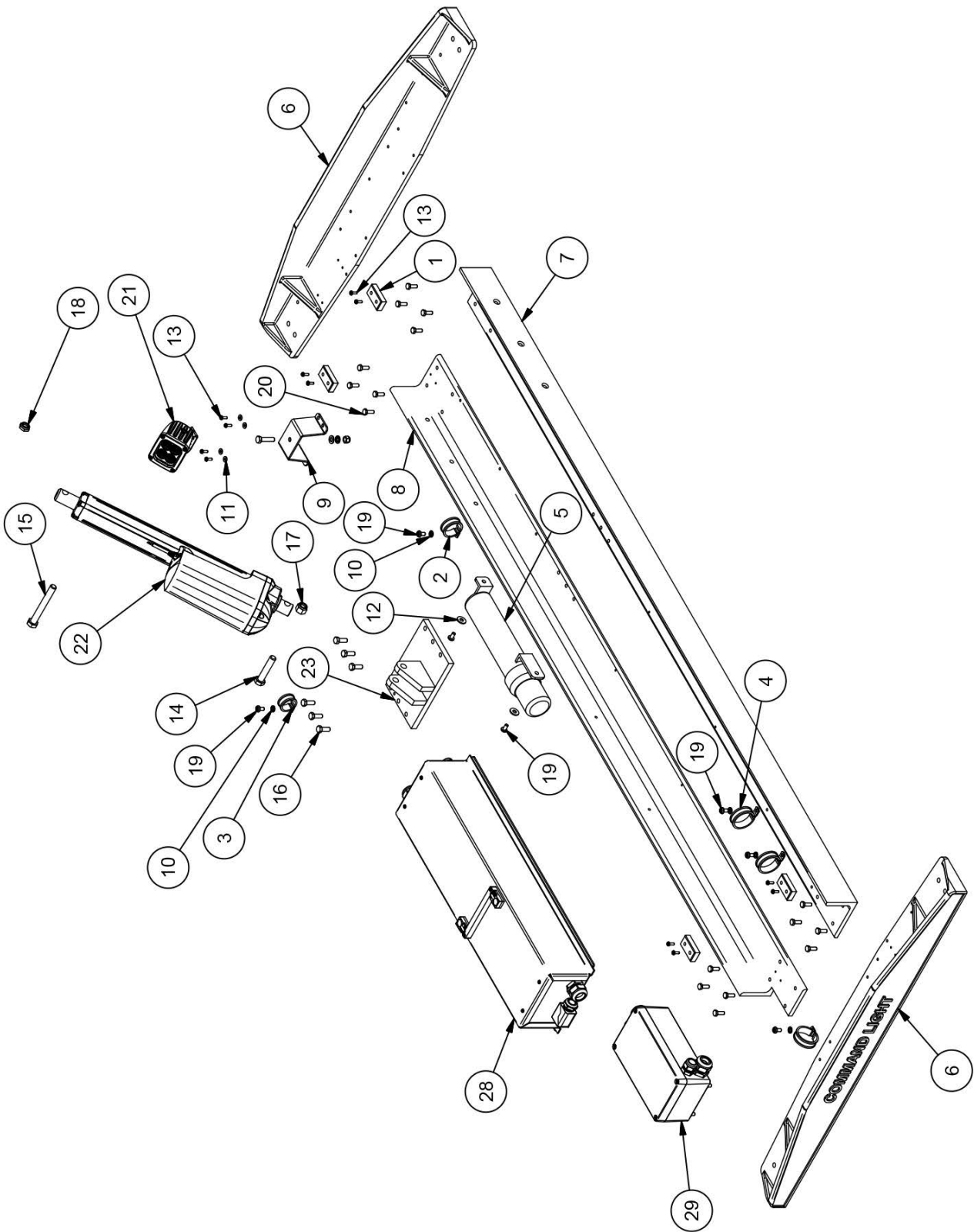
U.S. PATENT #5203621



Parts List - Lower Stage A

| PARTS LIST | | | |
|------------|-----|---------------|--|
| ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 4 | 065-13013 | FEET, RUBBER, RECTANGULAR, CL |
| 2 | 1 | 065-12367 | CLAMP, LOOM, #12, SS |
| 3 | 1 | 065-12860 | CLAMP, LOOM, #10, SS |
| 4 | 3 | 065-14961 | CLAMP, LOOM, #14, SS |
| 5 | 1 | 065-15001 | CANISTER, DOCUMENT, BLACK |
| 6 | 2 | 070-00202 | END, FRAME, CASTING, CL6XX |
| 7 | 1 | 070-00204 | FRAME, SIDE RAIL, RIGHT, CL |
| 8 | 1 | 070-00205 | FRAME, SIDE RAIL, LEFT, CL6XX |
| 9 | 1 | 070-06119 | BRACKET, LOOKUP LIGHT, CL6xx NEW LED |
| 10 | 5 | 034-11028 | WASHER, LOCK, SPRING, REGULAR, 1/4", SS |
| 11 | 4 | 034-10947 | WASHER, FLAT, SAE, #8, SS |
| 12 | 2 | 034-11029 | WASHER, FLAT, USS, 1/4", SS |
| 13 | 12 | 034-10939 | SCREW, PHP, 8-32 UNCx0.5 |
| 14 | 1 | 034-11134 | SCREW, HH, 1/2-20x2-1/2, SS |
| 15 | 1 | 032-13865 | SCREW, HH, 1/2-20x4, SS |
| 16 | 10 | 034-11110 | SCREW, HH, 5/16-18x7/8, SS |
| 17 | 1 | 034-11104 | NUT, NYLOCK, 1/2-20 UNF, SS |
| 18 | 1 | 032-13866 | NUT, NYLOCK, THIN, 1/2-20 UNC, SS |
| 19 | 7 | 034-11001 | SCREW, PHP, 1/4-20 UNCx0.5 |
| 20 | 16 | 034-11016 | SCREW, HH, 1/4-20x3/4, SS |
| 21 | 1 | 065-14784 | LOOK UP LIGHT, 4 RD, 48 IN CABLE, FRC, CL |
| 22 | 1 | 065-15359 | ACTUATOR, 300MM, 12VDC, CL LOWER |
| 23 | 1 | 070-00209W | CLEVIS, MAIN LIFT, WELDMENT, CL6XX |
| 24 | 1 | 065-14784 | LOOK UP LIGHT, BOLT, 4 RD, 48 IN CABLE, FRC, CL |
| 25 | 1 | 065-14784 | LOOK UP LIGHT, WASHER, 4 RD, 48 IN CABLE, FRC, CL |
| 26 | 1 | 065-14784 | LOOK UP LIGHT, LOCK WASHER, 4 RD, 48 IN CABLE, FRC, CL |
| 27 | 1 | 065-14784 | LOOK UP LIGHT, NUT, 4 RD, 48 IN CABLE, FRC, CL |
| 28 | 1 | 070-CL600-RLB | ASSEMBLED, RELAY BOX, CL, AC |
| 29 | 1 | 070-CL600-ENB | ASSEMBLED, ENTRANCE BOX, AC |

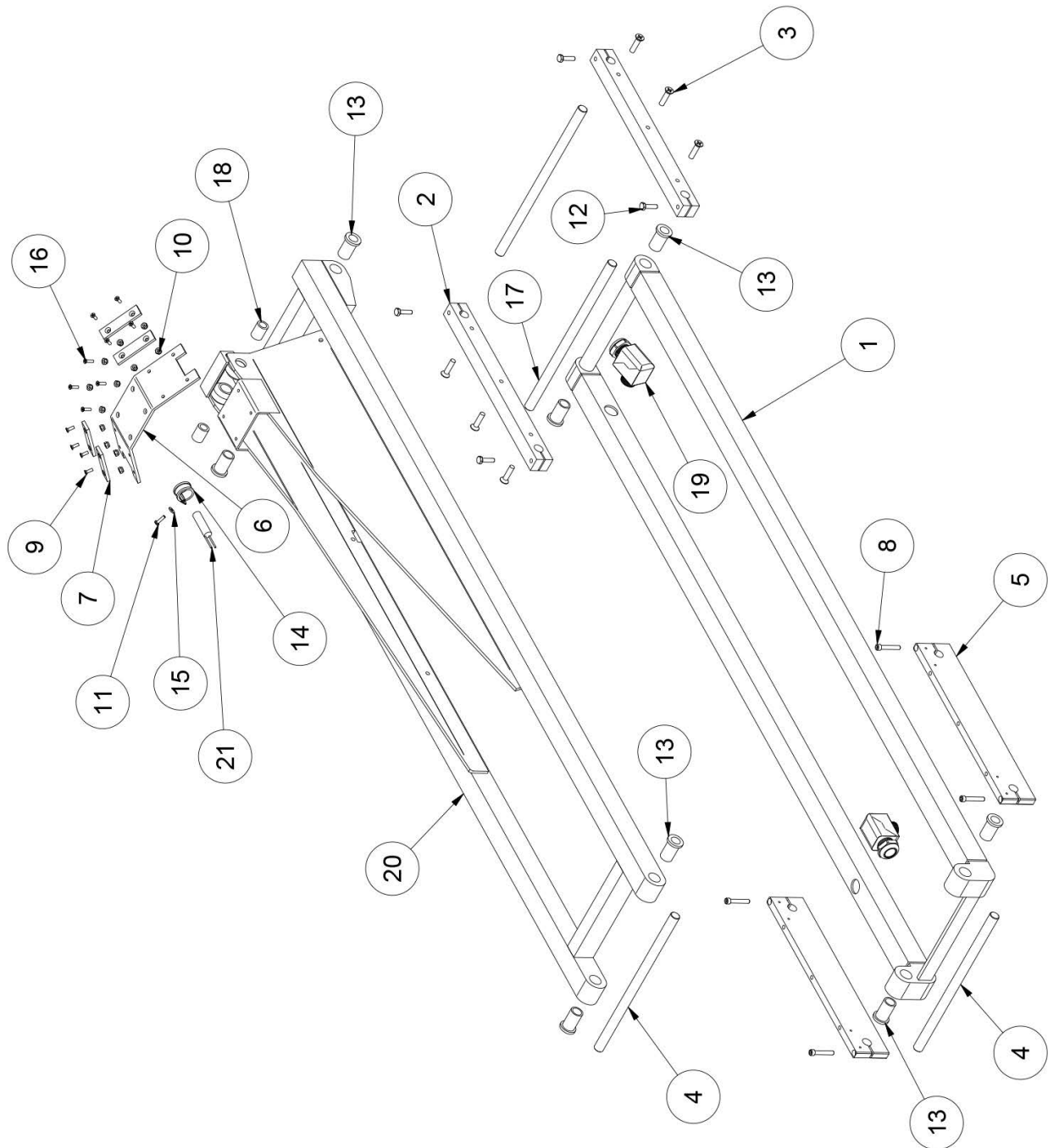
Exploded View - Lower Stage A



Parts List - Lower Stage B

| PARTS LIST | | | |
|------------|-----|-------------|---|
| ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 1 | 070-00320 | STABILIZER, WELDMENT, CL6XX |
| 2 | 2 | 070-00302 | MOUNT, TILT, LOWER, CL6XX |
| 3 | 6 | 034-13085 | SCREW,FHPMS,5/16-18 UNC x 1 1/4 in,SS |
| 4 | 2 | 070-00304 | SHAFT, PIVOT, UPPER, CL6XX |
| 5 | 2 | 070-00301 | MOUNT, PIVOT, MIDPLATE, CL6XX |
| 6 | 1 | 070-00319 | PLATE,NEST ALIGNMENT,CL6xx |
| 7 | 4 | 070-00714 | PAD,NEST BRACKET,CL6xx |
| 8 | 4 | 034-14708 | SCREW,SHCS,1/4-20x1-1/2,SS |
| 9 | 8 | 034-11188 | SCREW,FHPMS,8-32 UNC x 1/2 in,SS |
| 10 | 13 | 034-10951 | NUT,NYLOCK, 8-32 UNC,SS |
| 11 | 1 | 034-10940 | SCREW,PHP,8-32 UNCx0.625 |
| 12 | 4 | 034-11017 | SCREW,HH,1/4-20x1,SS |
| 13 | 8 | 065-13852 | BUSHING, FLANGED, .625 X .8125 X .75, THERMAL POLYMER |
| 14 | 1 | 065-12861 | CLAMP,LOOM,#8,SS |
| 15 | 1 | 034-10947 | WASHER,FLAT,SAE, #8, SS |
| 16 | 4 | 034-13059 | SCREW,FHPMS,8-32 UNC x 5/8 in,SS |
| 17 | 2 | 070-00303 | SHAFT, PIVOT, LOWER, CL6XX |
| 18 | 2 | 065-14791 | Bushing, Plain, Bronze, B812-8, 1/2 ID |
| 19 | 2 | 065-12853 | STRAIN RELIEF,DOMED 90,SCR .51-.71,3/4 NPT,BLACK |
| 20 | 1 | 070-00310 | ARM,MAIN LIFT,CL6xx,REVISED |
| 21 | 1 | 049-12293 | SWITCH,MERCURY,TOWER DUROKOOL,G5Z,CL |

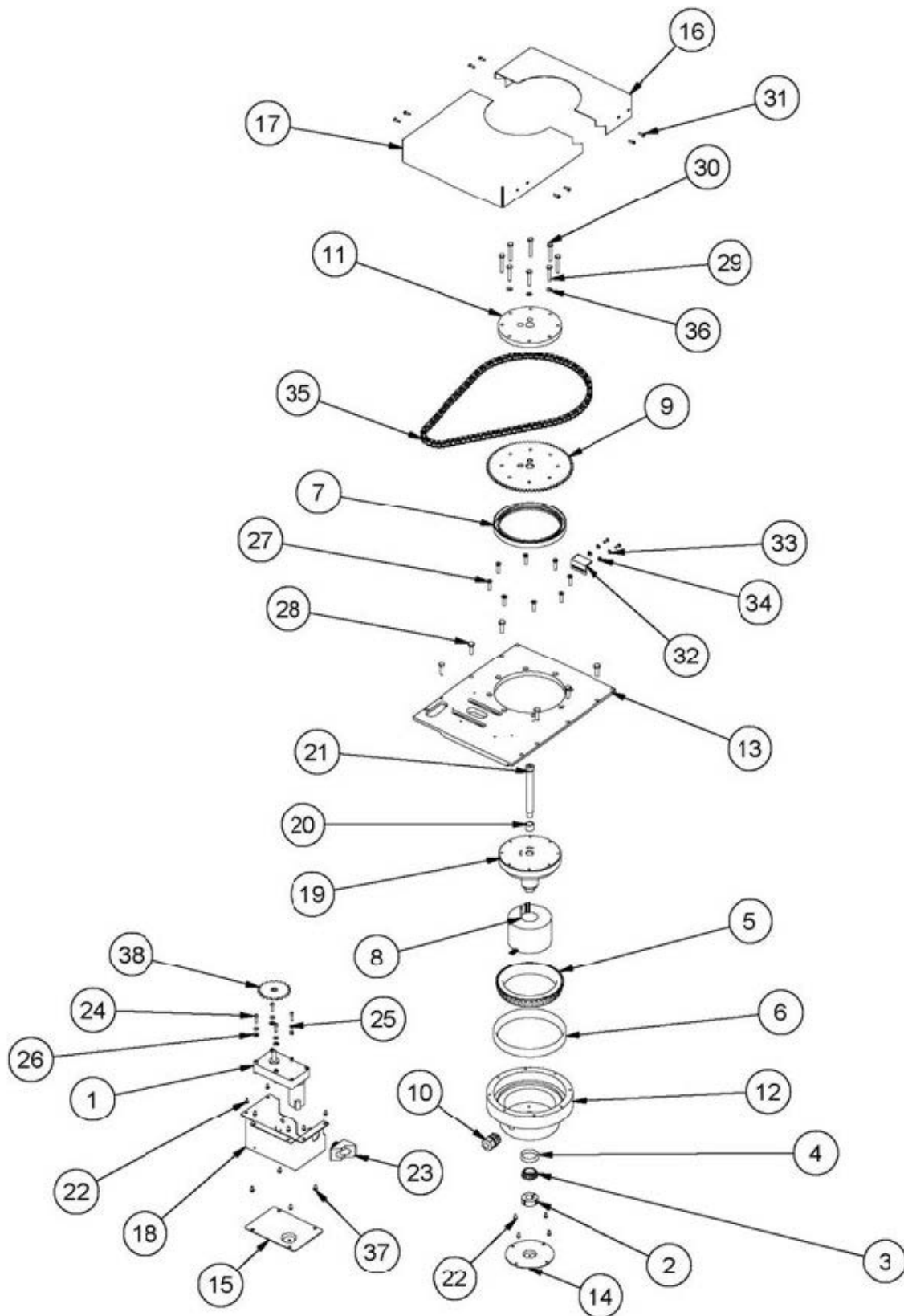
Exploded View - Lower Stage B



Parts List - Upper Stage A

| ITEM | QTY | PART NUMBER | DESCRIPTION |
|------|-----|--------------------------|--|
| 1 | 1 | 065-13833 | MOTOR,ROTATION,12VDC,T50 26-67-130-GM |
| 2 | 1 | 065-12808 | CLAMP, NUT, 3/4-16 |
| 3 | 1 | 065-12805 | BEARING,LOWER,ROTATION,LL52549 |
| 4 | 1 | 065-12806 | CUP,BEARING,LOWER,ROTATION |
| 5 | 1 | 065-12804 | BEARING,UPPER,ROTATION,L225849 |
| 6 | 1 | 065-12803 | CUP,BEARING,UPPER,ROTATION |
| 7 | 1 | 145x170x15 | Single Lip Seal |
| 8 | 1 | 065-12817 | SLIP RING, 12 CONDUCTOR |
| 9 | 1 | 070-00410 | SPROCKET,DRIVEN,ROTATION,CL6xx |
| 10 | 1 | 065-12852 | SEALCON,STRAIGHT,1/2,CD-13NA-BK |
| 11 | 1 | 070-00408 | |
| 12 | 1 | 070-00402 | HOUSING,BEARING,ROTATION,CL6XX |
| 13 | 1 | 070-00406 | MIDPLATE, ROTATION, CLIGHT |
| 14 | 1 | Cover, Slip Ring, Clight | |
| 15 | 1 | 070-00632 | COVER,MOTOR,ROTATION,CL6xx |
| 16 | 1 | 070-00412 | COVER,MICPLATE,REAR,CL6XX |
| 17 | 1 | 070-00411 | COVER,MICPLATE,FRONT,CL6XX |
| 18 | 1 | 070-00631 | BOX,MOTOR,ROTATION,CLxxx |
| 19 | 1 | 070-00451 | SPINDLE, ROTATION, CLIGHT |
| 20 | 1 | 070-00452 | SLEEVE,SPINDLE,EXTENSION,CL6XX |
| 21 | 1 | SHSB-77a | BOLT,SPINDLE,5/8 x 4 3/4,1/2-13,MOD |
| 22 | 10 | STD HARDWARE--42 | SCREW,PHP,8-32 UNCx0.375 |
| 23 | 1 | ED21NA-BK_3_4_90 | |
| 24 | 4 | STD HARDWARE--59 | SCREW,PHP,10-24 UNCx0.75 |
| 25 | 4 | STD HARDWARE LW30 | WASHER,LOCK,SPRING,EXTRA DUTY, #10, SS |
| 26 | 4 | STD HARDWARE W16 | WASHER,FLAT,SAE, #10, SS |
| 27 | 8 | STD HARDWARE-FHMS-132 | SCREW,FHPMS,1/4-20 UNC x 1 in,SS |
| 28 | 6 | STD HARDWARE-HHCS-32 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 29 | 3 | STD HARDWARE-HHCS-09 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 30 | 5 | STD HARDWARE-HHCS-10 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 31 | 10 | STD HARDWARE--44 | SCREW,PHP,8-32 UNCx0.5 |
| 32 | 1 | 070-00407 | BRACKET,CENTER SENSOR,CL6XX |
| 33 | 2 | STD HARDWARE LW26 | WASHER,LOCK,SPRING,EXTRA DUTY, #8, SS |
| 34 | 2 | STD HARDWARE W14 | WASHER,FLAT,SAE, #8, SS |
| 35 | 1 | GearChain | |
| 36 | 3 | STD HARDWARE LW35 | WASHER,LOCK,SPRING,REGULAR, 1/4", SS |
| 37 | 4 | STD HARDWARE-PHP-40 | SCREW,PHP,MS,10-24UNCx3/8,SS |
| 38 | 1 | Sprocket1 | |
| 39 | 1 | 070-00409 Hub | |

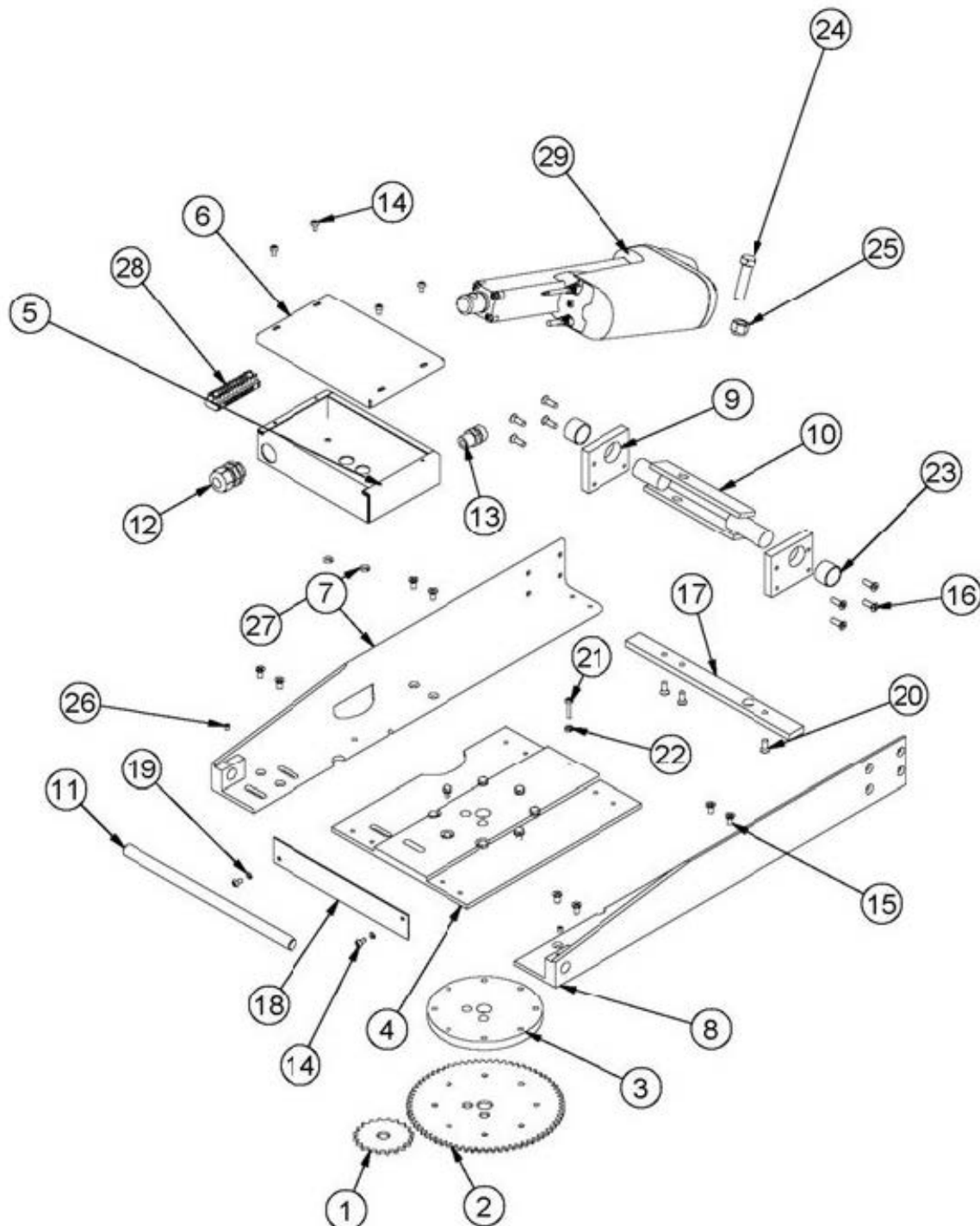
Exploded View - Upper Stage A



Parts List - Upper Stage B

| ITEM | QTY | PART NUMBER | DESCRIPTION |
|------|-----|-------------------------|---------------------------------------|
| 1 | 1 | Sprocket1 | |
| 2 | 1 | 070-00410 | SPROCKET,DRIVEN,ROTATION,CL6xx |
| 3 | 1 | 070-00408 | |
| 4 | 1 | 070-05105 | BASE,ROTATION,LAMP TREE,CL6xx,REVISED |
| 5 | 1 | 070-00633 | UPPER ACTUATOR CONNECTION BOX |
| 6 | 1 | 070-00634 | UPPER ACTUATOR BOX LID |
| 7 | 1 | 070-05110L | MOUNT,LAMP TREE,LEFT,CL6xx,REVISED |
| 8 | 1 | 070-05101R | MOUNT,LAMP TREE,RIGHT,CL6xx,REVISED |
| 9 | 2 | 070-00512 | BLOCK,ACTUATOR SHAFT,CLIGHT |
| 10 | 1 | 070-00506 | MOUNT,ACTUATOR,UPPER,CL6XX |
| 11 | 1 | 070-00304 | SHAFT, PIVOT, UPPER, CL6XX |
| 12 | 1 | 3-4NPT_STRAIGHT_SEALCON | SEALCON, STRAIGHT, 1/2 NPT |
| 13 | 1 | 3-8NPT_STRAIGHT_SEALCON | 3-8NPT_STRAIGHT_SEALCON |
| 14 | 6 | STD HARDWARE-PHP-40 | SCREW,PHP,MS,10-24UNCx3/8,SS |
| 15 | 8 | STD HARDWARE-FHMS-128 | SCREW,FHPMS,1/4-20 UNC x 1/2 in,SS |
| 16 | 8 | STD HARDWARE-FHMS-130 | SCREW,FHPMS,1/4-20 UNC x 3/4 in,SS |
| 17 | 1 | 070-05107 | STOP,LAMP TREE,CL6xx,REVISED |
| 18 | 1 | 070-05108 | |
| 19 | 2 | STD HARDWARE LW28 | WASHER,LOCK,SPRING,REGULAR, #10, SS |
| 20 | 3 | STD HARDWARE-FHMS-129 | SCREW,FHPMS,1/4-20 UNC x 5/8 in,SS |
| 21 | 1 | STD HARDWARE-PHP-63 | SCREW,PHP,MS,10-32UNFx1,SS |
| 22 | 1 | STD HARDWARE-N-06 | Nut, Hex, Full, 1/4-20 UNC |
| 23 | 2 | STD HARDWARE | Bushing, Plain, Bronze, B1618-6, 1 ID |
| 24 | 1 | STD HARDWARE-HHCS-310 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 25 | 1 | STD HARDWARE-NN16 | NUT,NYLOCK, 1/2-13 UNC,SS |
| 26 | 2 | STD HARDWARE-SHSS-68 | SCREW,SHS,1/4-20 UNC x 1/4,SS |
| 27 | 8 | STD HARDWARE LW35 | WASHER,LOCK,SPRING,REGULAR, 1/4", SS |
| 28 | 1 | Barrier_Strip_12_Pole | STRIP, BARRIER, 12 POLE |
| 29 | 1 | 0361240 | |
| 30 | 5 | STD HARDWARE-HHCS-10 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 31 | 3 | STD HARDWARE-HHCS-09 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |

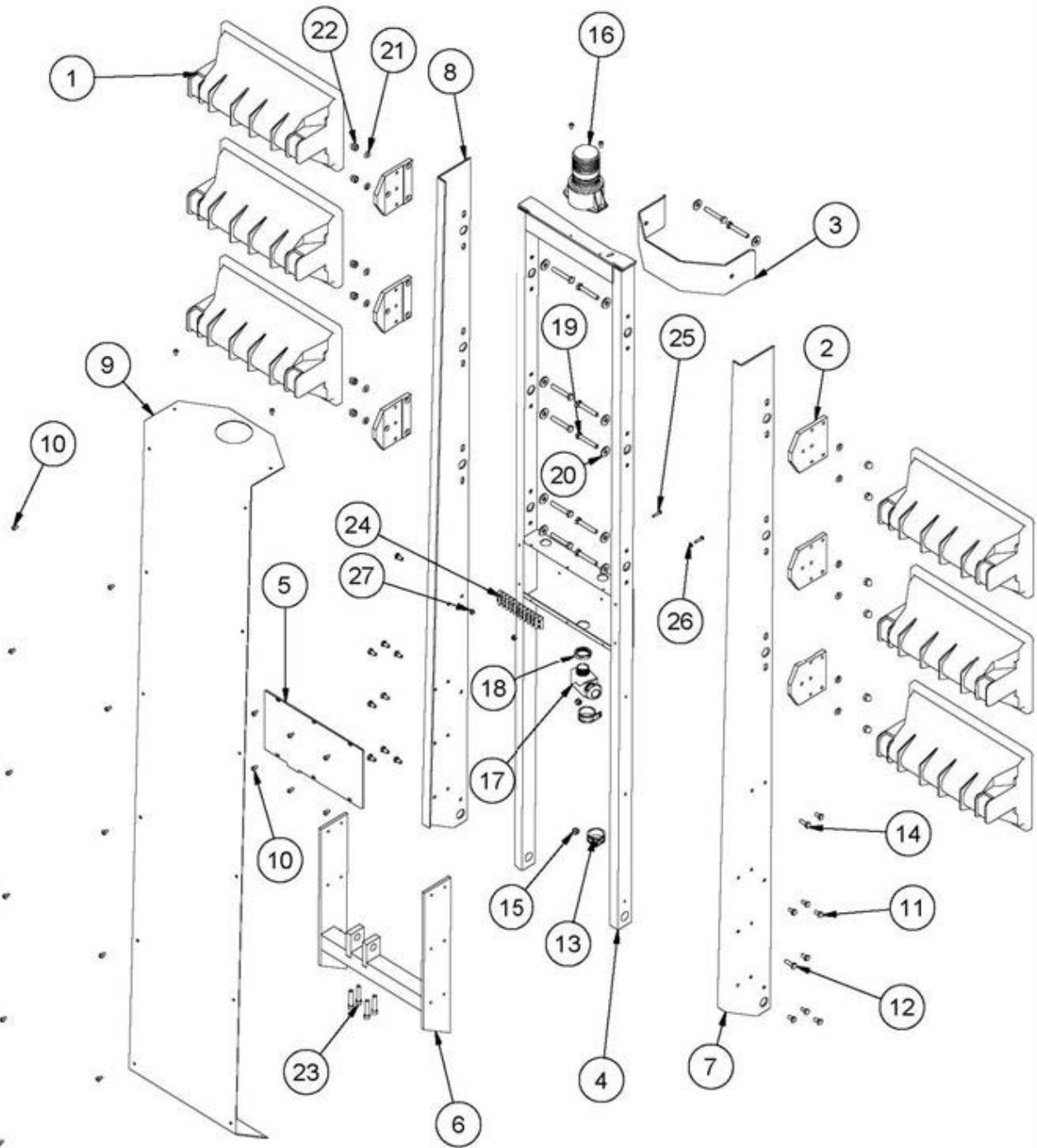
Exploded View - Upper Stage B



Parts List - Lamp Tree

| ITEM | QTY | PART NUMBER | DESCRIPTION |
|------|-----|----------------------|---------------------------------------|
| 1 | 6 | 611-615-Lamp | |
| 2 | 6 | 070-00626 | MOUNT,LAMP,HUBBELL,CL6XX |
| 3 | 1 | 070-00525 | SADDLE,NEST,TREE,CL6xx |
| 4 | 1 | 070-00520 | |
| 5 | 1 | 070-00638 | COVER,CONNECTION BOX,CL6xx,REVISED |
| 6 | 1 | 070-00501R2 | WELDMENT,CLEVIS,UPPER,CL6XX,REVISED |
| 7 | 1 | 070-00522R | MOUNT,LAMP,SIDE,RIGHT,CL6XX |
| 8 | 1 | 070-00522L | MOUNT,LAMP,SIDE,LEFT,CL6XX |
| 9 | 1 | 070-00517 | COVER,LAMP TREE,CL6xx |
| 10 | 22 | STD HARDWARE-PHP-40 | SCREW,PHP,MS,10-24UNCx3/8,SS |
| 11 | 17 | STD HARDWARE-HHCS-02 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 12 | 1 | STD HARDWARE-HHCS-05 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 13 | 2 | 065-12860 | CLAMP,LOOM,#10,SS |
| 14 | 1 | STD HARDWARE-HHCS-04 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 15 | 2 | 034-11033 | NUT,NYLOCK, 1/4-20 UNC,SS |
| 16 | 1 | Strobe | STROBE, PRE-WIRED, INDICATE COLOR |
| 17 | 1 | ED21NA-BK_3_4_90 | |
| 18 | 1 | NN-21-BK | |
| 19 | 12 | STD HARDWARE-HHCS-37 | 7/16-14 x 1-1/4 Hex Head Cap Screw SS |
| 20 | 12 | STD HARDWARE W24 | WASHER,FLAT,USS, 5/16", SS |
| 21 | 12 | STD HARDWARE LW39 | WASHER,LOCK,SPRING,REGULAR, 5/16", SS |
| 22 | 12 | STD HARDWARE-ANUT-05 | NUT,ACORN, 5/16-18 UNC, SS |
| 23 | 4 | STD HARDWARE-SHCS-84 | SCREW,SHCS,5/16-18x1-1/2,SS |
| 24 | 1 | 671A GP 10 | |
| 25 | 2 | STD HARDWARE-PHP-26 | SCREW,PHP,MS,8-32UNCx3/4,SS |
| 26 | 1 | STD HARDWARE-IEW-49 | WASHER,LOCK,18-8 SS, INTERNAL, 1/4 in |
| 27 | 2 | 034-10951 | NUT,NYLOCK, 8-32 UNC,SS |

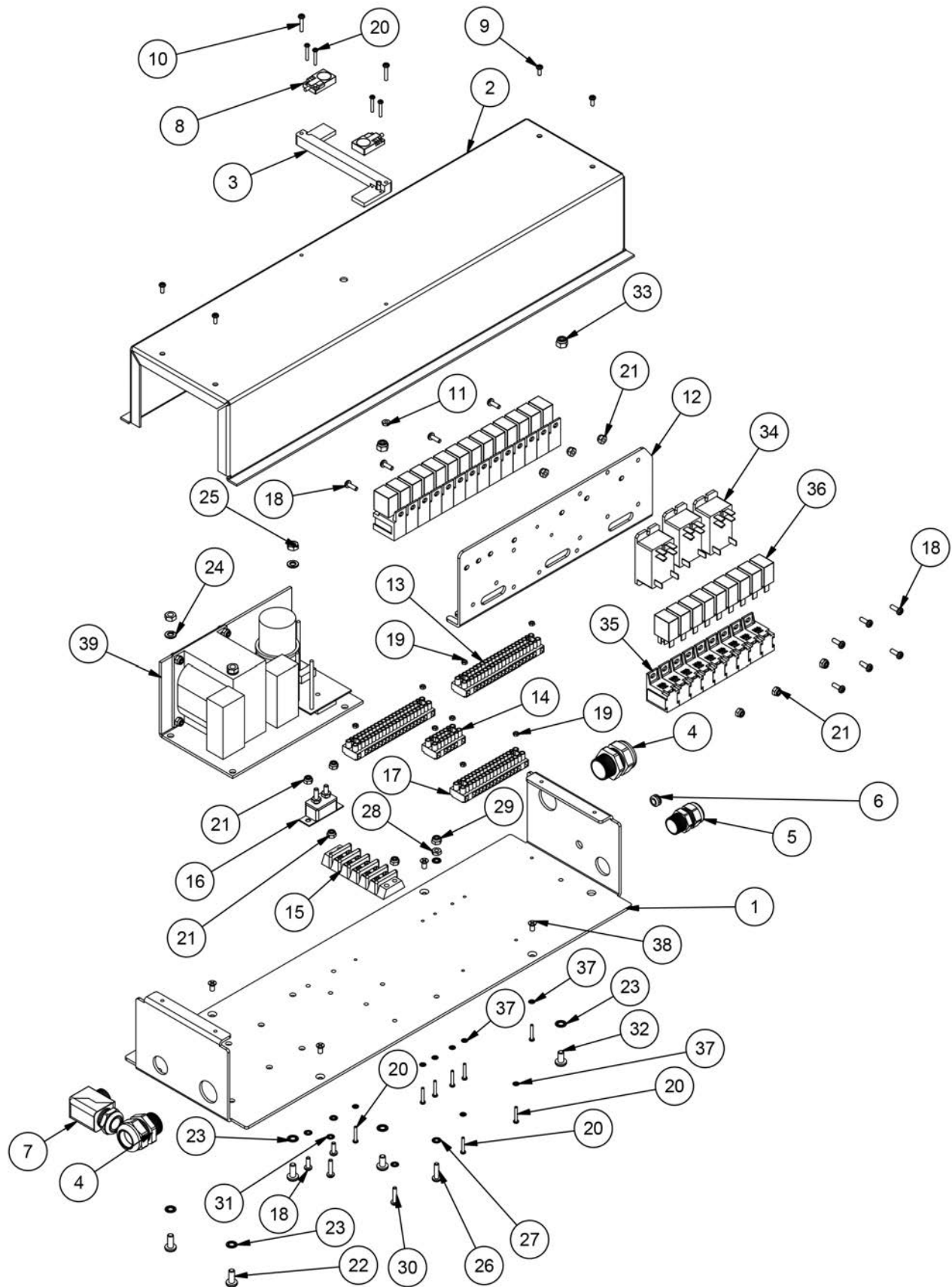
Exploded View - Lamp Tree



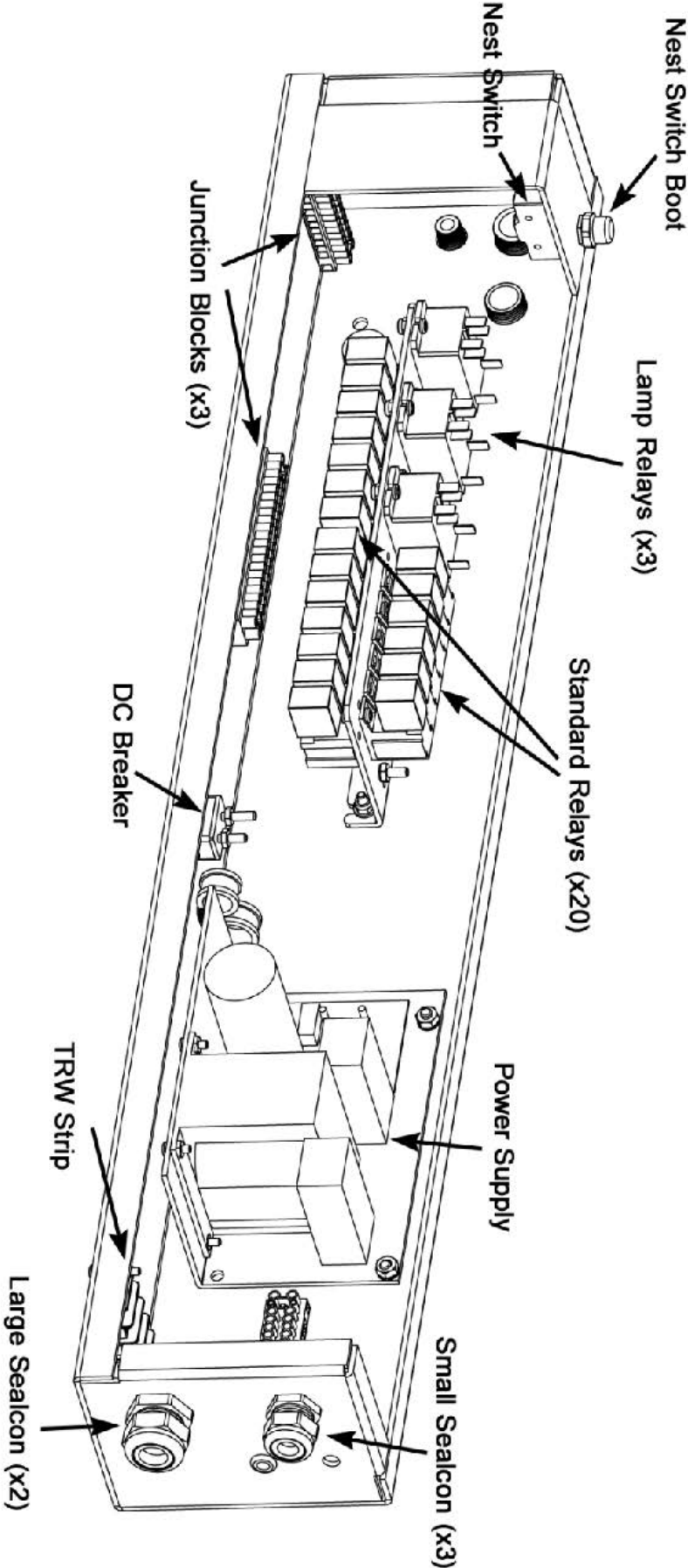
Parts List - Relay Box

| PARTS LIST | | | |
|------------|-----|-------------|--|
| ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 1 | 070-00611 | BOX,CONTROL,BASE,CL6xx |
| 2 | 1 | 070-00612 | LID,CONTROL BOX,CL6xx |
| 3 | 1 | 070-12011 | MOUNT,SENSOR,RELAY COVER,CL6XX |
| 4 | 2 | 065-12854 | STRAIN RELIEF,DOMED,SCR .51-.71,3/4 NPT,BLACK |
| 5 | 1 | 065-12852 | SEALCON,STRAIGHT,1/2,CL |
| 6 | 1 | 065-13016 | GROMET,1/4,BLK,RELAY BOX/HOLSTER |
| 7 | 1 | 065-12851 | STRAIN RELIEF,DOMED 90,SCR .39-.55,1/2 NPT,BLACK |
| 8 | 2 | 065-12884 | SENSOR,NEST, TURK |
| 9 | 4 | 034-13696 | SCREW,PHP,6-32 UNCx0.375 |
| 10 | 2 | 034-10919 | SCREW,PHP,6-32 UNCx0.75 |
| 11 | 2 | 034-11162 | NUT,MS,HEX2,6-32UNC,SS |
| 12 | 1 | 079-00005 | PLATE,RELAY MOUNT,ALL |
| 13 | 2 | 065-12890 | STRIP, BARRIER, 20 POLE |
| 14 | 1 | 065-13025 | TERMINAL STRIP,6 POLE |
| 15 | 1 | 069-14322 | TERMINAL BLOCK,5 POLE |
| 16 | 1 | 065-13529 | BREAKER, 12V 20A, SINGLE POLE |
| 17 | 1 | 065-12828 | TERMINAL STRIP,16 POLE |
| 18 | 12 | 034-10939 | SCREW,PHP,8-32 UNCx0.5 |
| 19 | 8 | 034-10902 | NUT,MS,HEX2,4-40UNC,SS |
| 20 | 12 | 034-13288 | SCREW,PHP,4-40 UNCx0.75 |
| 21 | 15 | 034-10951 | NUT,NYLOCK, 8-32 UNC,SS |
| 22 | 3 | 034-11002 | SCREW,PHP,1/4-20 UNCx0.625 |
| 23 | 13 | 034-10110 | WASHER,LOCK,18-8SS,INTERNAL,1/4in |
| 24 | 3 | 034-11028 | WASHER,LOCK,SPRING,REGULAR, 1/4", SS |
| 25 | 3 | 034-11112 | NUT,MS,HEX2,1/4-20UNC,SS |
| 26 | 1 | 034-10966 | SCREW,PHP,10-24 UNCx0.75 |
| 27 | 2 | 034-10978 | WASHER,LOCK,18-8SS,INTERNAL,#10 |
| 28 | 1 | 034-13100 | NUT,MS,HEX2,10-24UNC,SS |
| 29 | 1 | 034-10981 | NUT,NYLOCK, 10-24 UNC,SS |
| 30 | 3 | 034-10941 | SCREW,PHP,8-32 UNCx0.75 |
| 31 | 6 | 034-11175 | WASHER,LOCK,18-8SS,INTERNAL,#8 |
| 32 | 2 | 034-11001 | SCREW,PHP,1/4-20 UNCx0.5 |
| 33 | 6 | 034-11033 | NUT,NYLOCK, 1/4-20 UNC,SS |
| 34 | 3 | 065-14020 | RELAY, DOUBLE POLE, 240VAC |
| 35 | 23 | 065-13730 | SOCKET, SINGLE POLE, RELAY |
| 36 | 23 | 065-13738 | RELAY, 12V, SINGLE POLE |
| 37 | 8 | 034-14283 | WASHER,LOCK,18-8SS,INTERNAL,#4 |
| 38 | 4 | 034-10961 | SCREW,FHPMS,10-24 UNC x 3/8 in,SS |
| 39 | 1 | 065-14577 | POWER SUPPLY,ASSEMBLED,CL,KL |

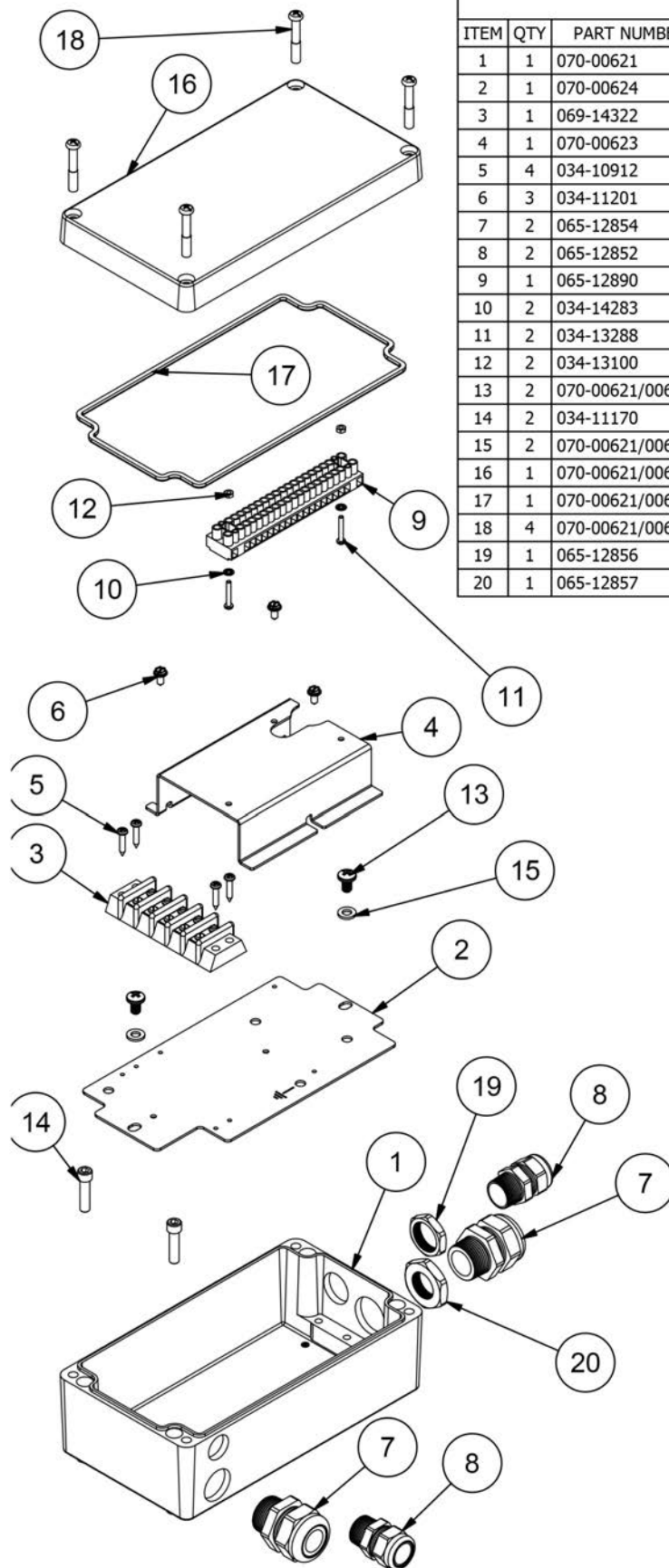
Exploded View - Relay Box



RELAY BOX TERMINOLOGY



Parts List/Exploded View - Entrance Box



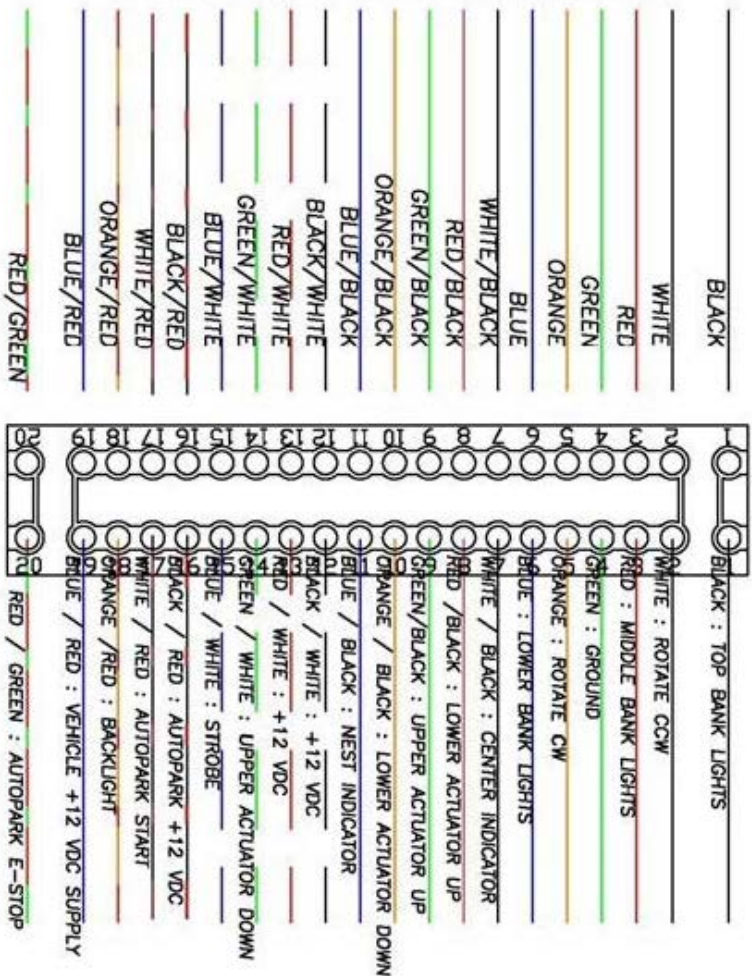
| PARTS LIST | | | |
|------------|-----|-----------------|---|
| ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 1 | 070-00621 | BOX,ENTRANCE,FINISHED,CL6XX |
| 2 | 1 | 070-00624 | PLATE,2,COMPONENT MOUNT,CL6xx |
| 3 | 1 | 069-14322 | TERMINAL BLOCK,5 POLE |
| 4 | 1 | 070-00623 | PLATE,1,COMPONENT MOUNT,CL6xx |
| 5 | 4 | 034-10912 | SHEET METAL SCREW, 6-32 X .75, PHILLIPS PH, SS |
| 6 | 3 | 034-11201 | SCREW, #8 X .375, SH SHEET METAL SCREW,SS |
| 7 | 2 | 065-12854 | STRAIN RELIEF,DOMED,RCR .35-.63,3/4 NPT,BLACK |
| 8 | 2 | 065-12852 | STRAIN RELIEF,DOMED,SCR .24-.47,1/2 NPT,BLACK |
| 9 | 1 | 065-12890 | STRIP, BARRIER, 20 POLE |
| 10 | 2 | 034-14283 | WASHER,LOCK,18-8SS,INTERNAL,#4 |
| 11 | 2 | 034-13288 | SCREW,PHP,4-40 UNCx0.75 |
| 12 | 2 | 034-13100 | NUT,MS,HEX2,4-40UNC,SS |
| 13 | 2 | 070-00621/00622 | Screw_M6-1X 10mm ENTRANCE BOX,FINISHED,CL6XX/CL602D |
| 14 | 2 | 034-11170 | SCREW,SHCS,1/4-20x1,SS |
| 15 | 2 | 070-00621/00622 | WASHER_ ENTRANCE BOX,FINISHED,CL6XX/CL602D |
| 16 | 1 | 070-00621/00622 | LID,ENTRANCE BOX,FINISHED,CL6XX/CL602D |
| 17 | 1 | 070-00621/00622 | GASKET,ENTRANCE BOX,FINISHED,CL6XX/CL602D |
| 18 | 4 | 070-00621/00622 | Screw_M6-1X 35mm ENTRANCE BOX,FINISHED,CL6XX/CL602D |
| 19 | 1 | 065-12856 | LOCKNUT,NYLON,1/2 NPT,BLACK |
| 20 | 1 | 065-12857 | LOCKNUT,NYLON,3/4 NPT,BLACK |

Wiring Schematics

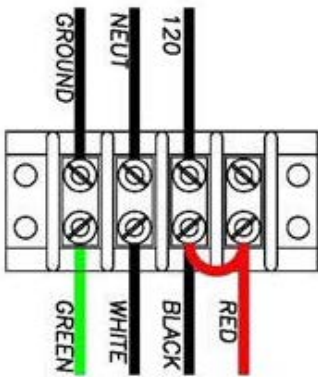
COMMEND LIGHT
MODELS 605/607/610 ONLY
11/30/2011

ENTRANCE BOX

TO HOLSTER BOX



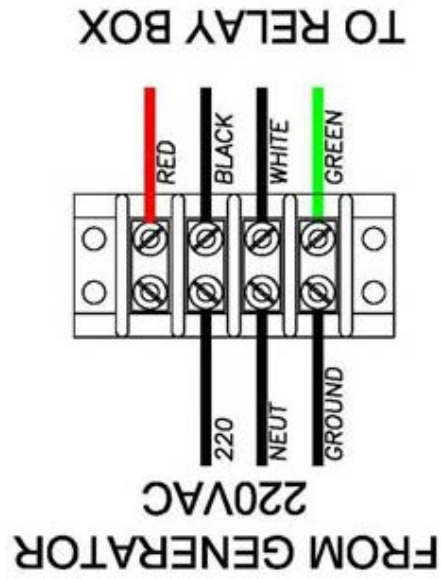
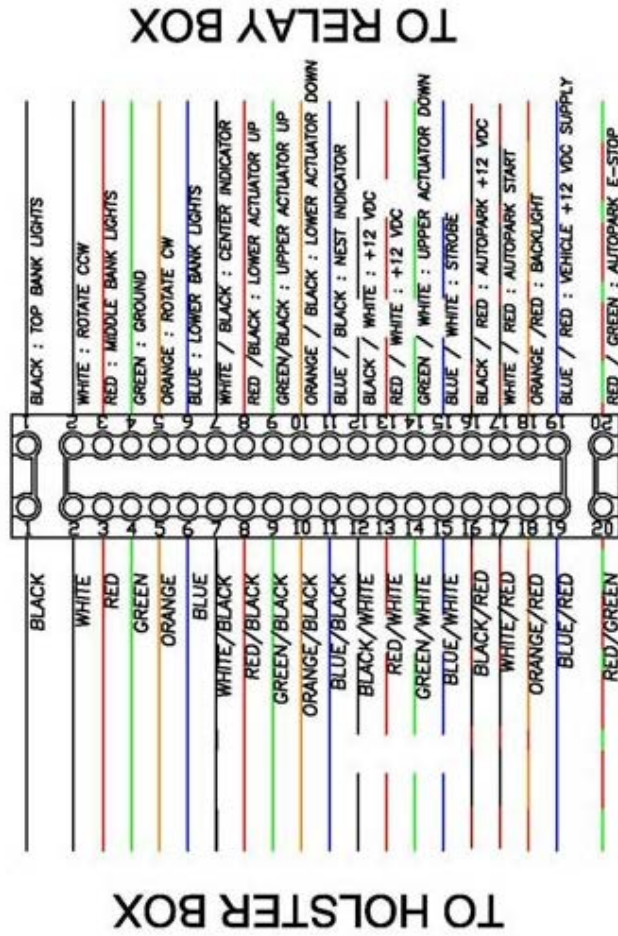
FROM
GENERATOR
120VAC



TO RELAY BOX

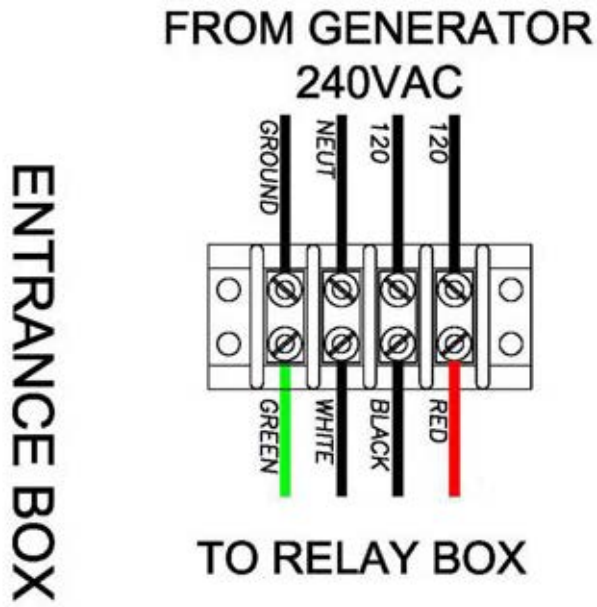
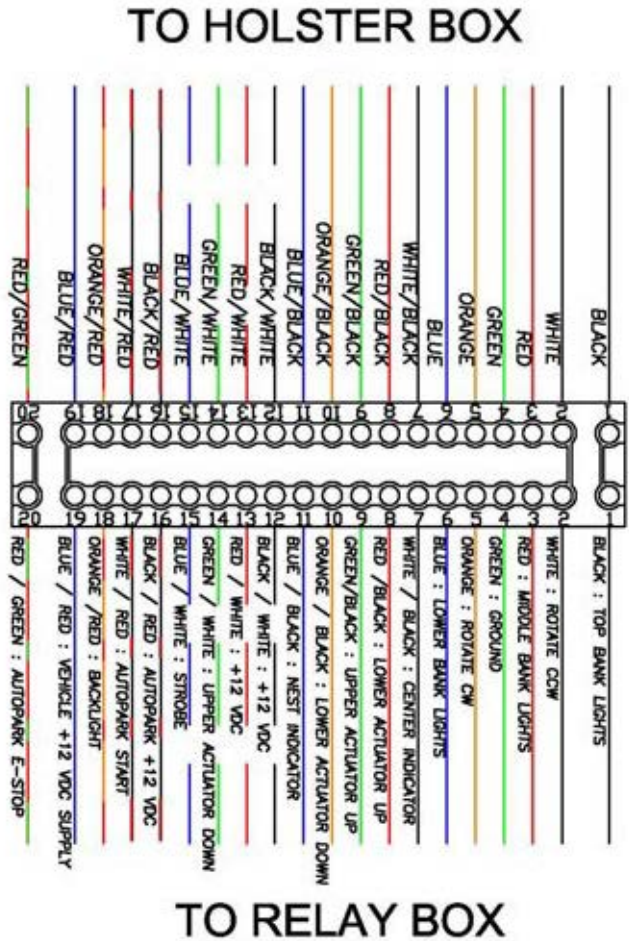


MODELS 605/607/609/610/611/615/6xxMH EURO
11/1/2011



ENTRANCE BOX

COMMAND LIGHT
MODELS 605/607/609/610/611/615/6xxMH
5/10/2010



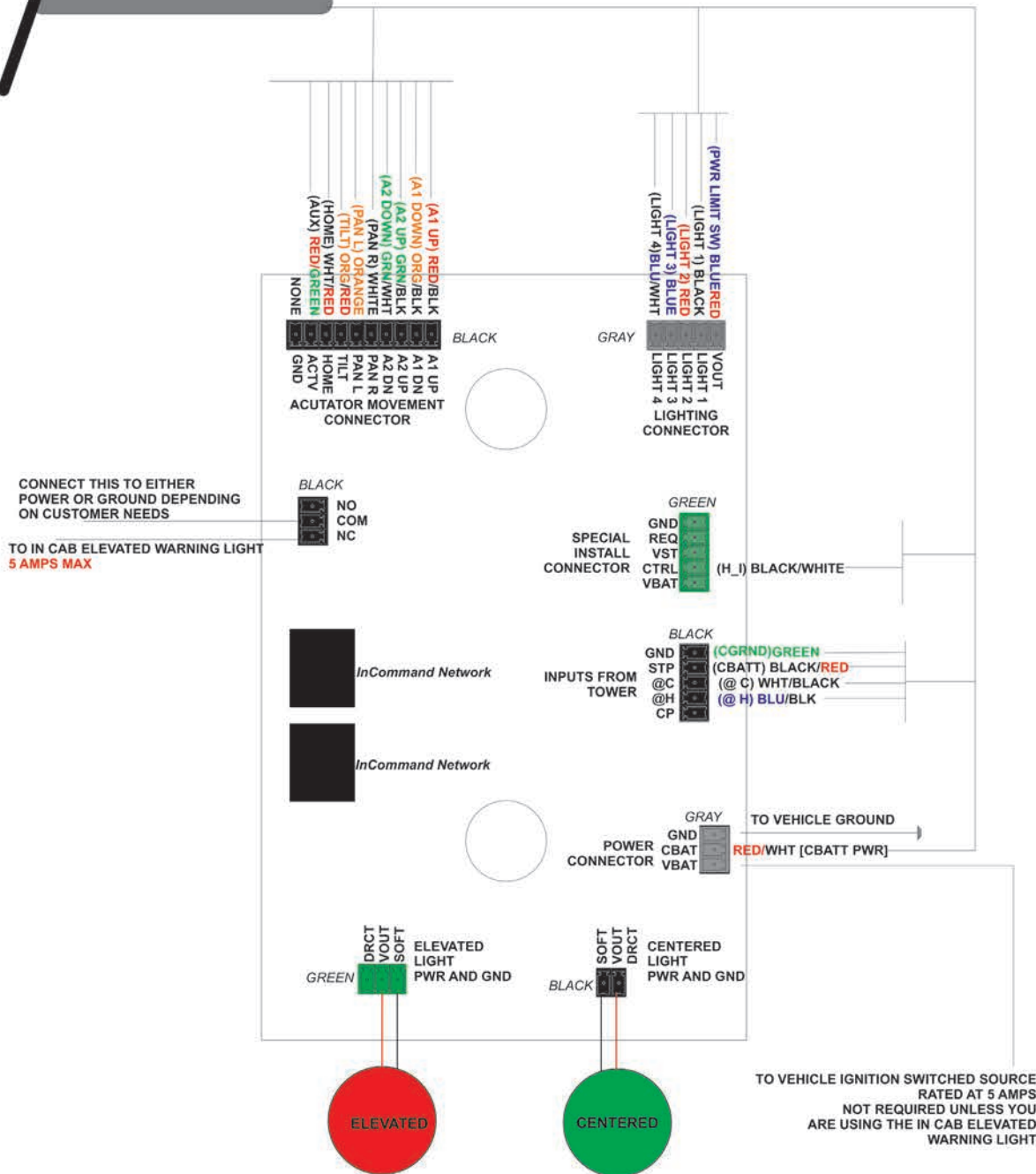
Holster Box

TO
LIGHT TOWER

20 WIRE CABLE
FROM LIGHT TOWER



STANDARD INSTALLATION



DIAGNOSTIC LIGHTS:
IF RED LED IS ON, GREEN LIGHT WILL FLASH A
DIAGNOSTIC NUMBER. FOR EXAMPLE, ERROR CODE
12 WILL BE INDICATED BY THE GREEN POWER LED
FLASHING ONCE, PAUSE, FLASH TWICE. PAUSE, AND
THEN RESTART THAT SEQUENCE.

- 12: COMMAND LIGHT DOES NOT HAVE POWER
- 13: COMMUNICATION ISSUE BETWEEN THE KEYPAD AND MAIN BOARD
- 14: DOES NOT HAVE CONTROL OF SYSTEM (VMUX ONLY)

FOR USE WITH ALL COMMAND LIGHT MODELS
MAIN BOARD REV 5.3.3, DIAGRAM REV 4, FIRMWARE 4.0

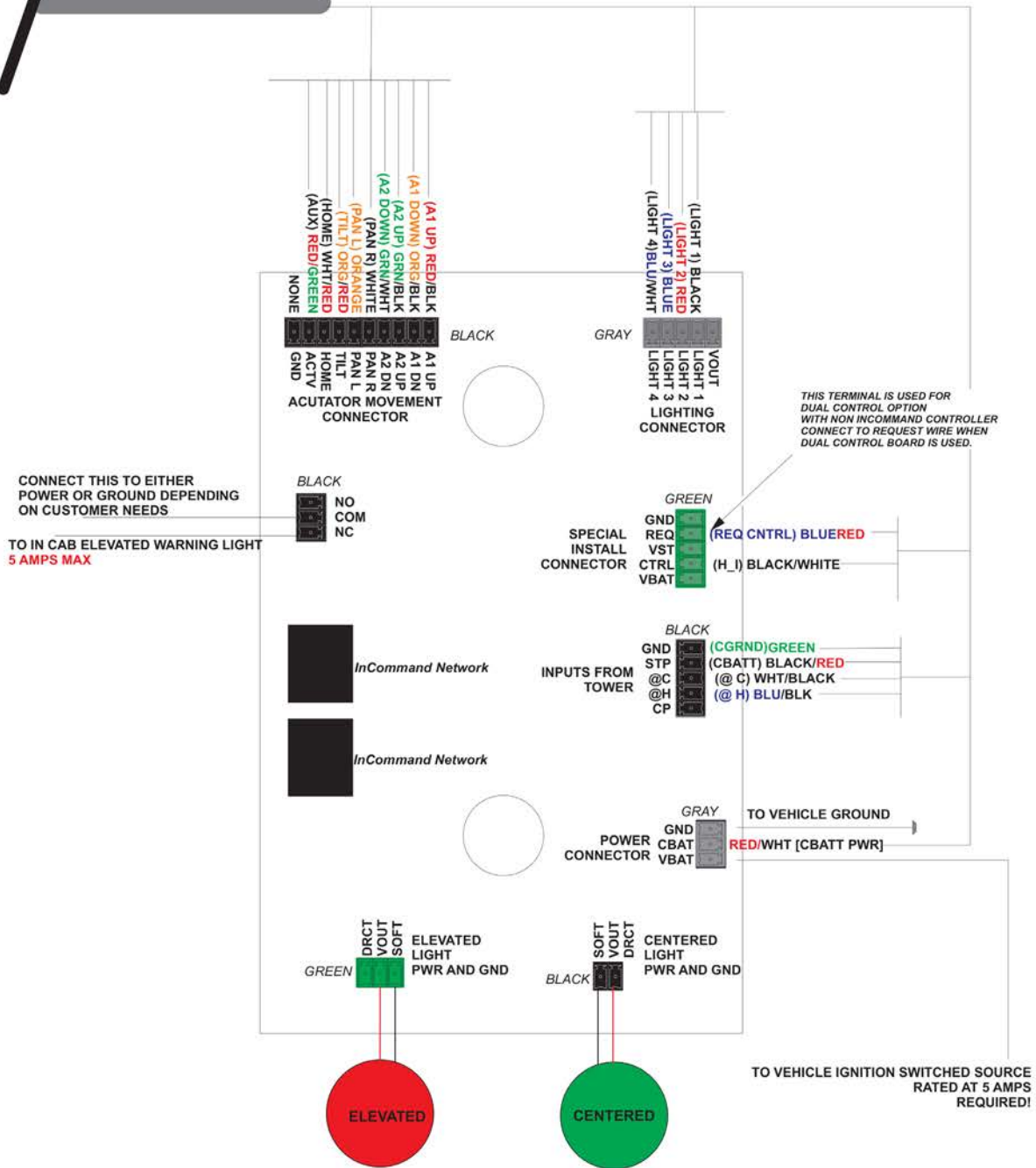
Holster Box

TO
LIGHT TOWER

20 WIRE CABLE
FROM DUAL CONTROL BOX.

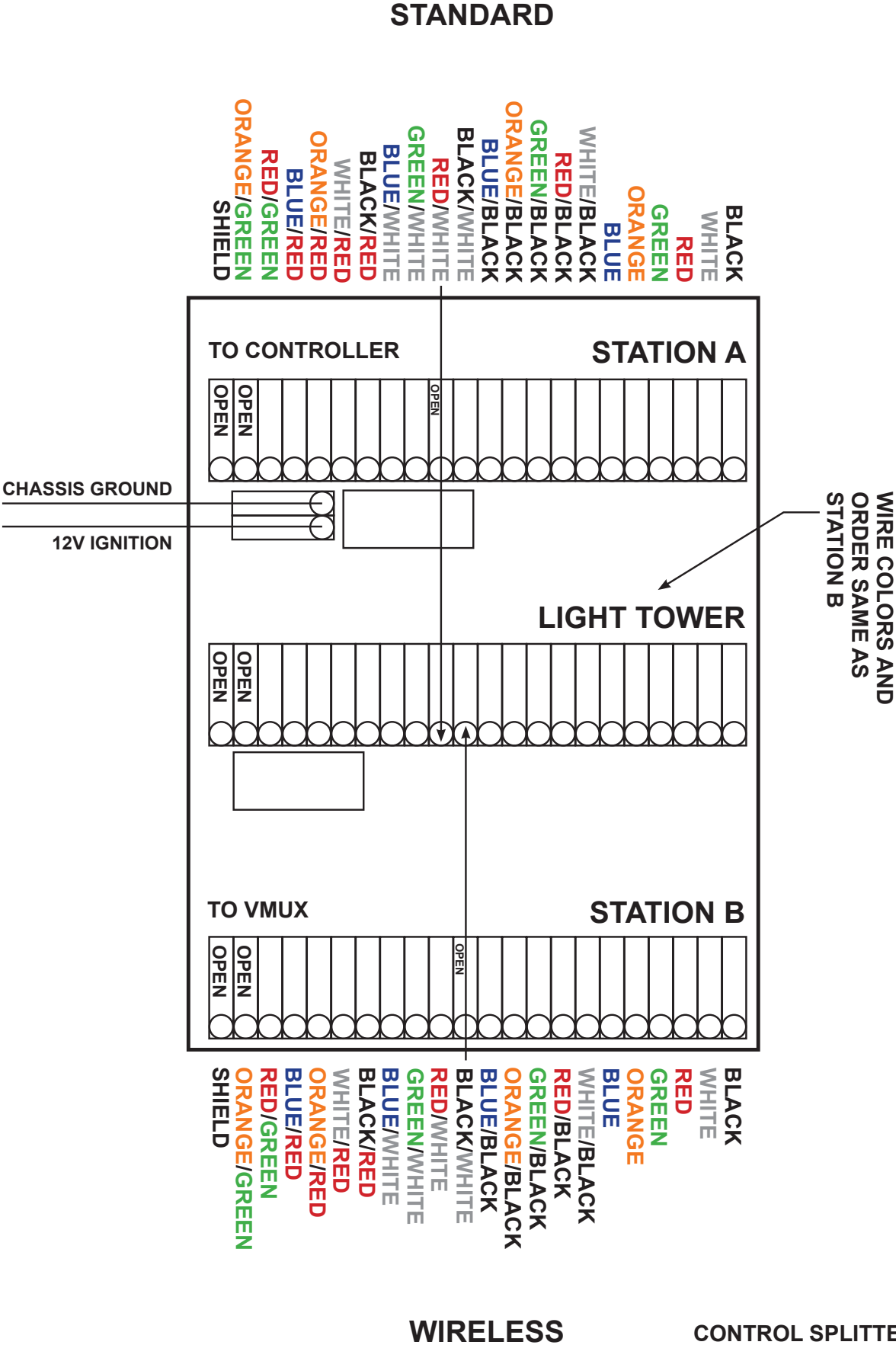


INSTALLATION WITH SECONDARY AFTERMARKET CONTROLLER
WIRELESS, V-MUX



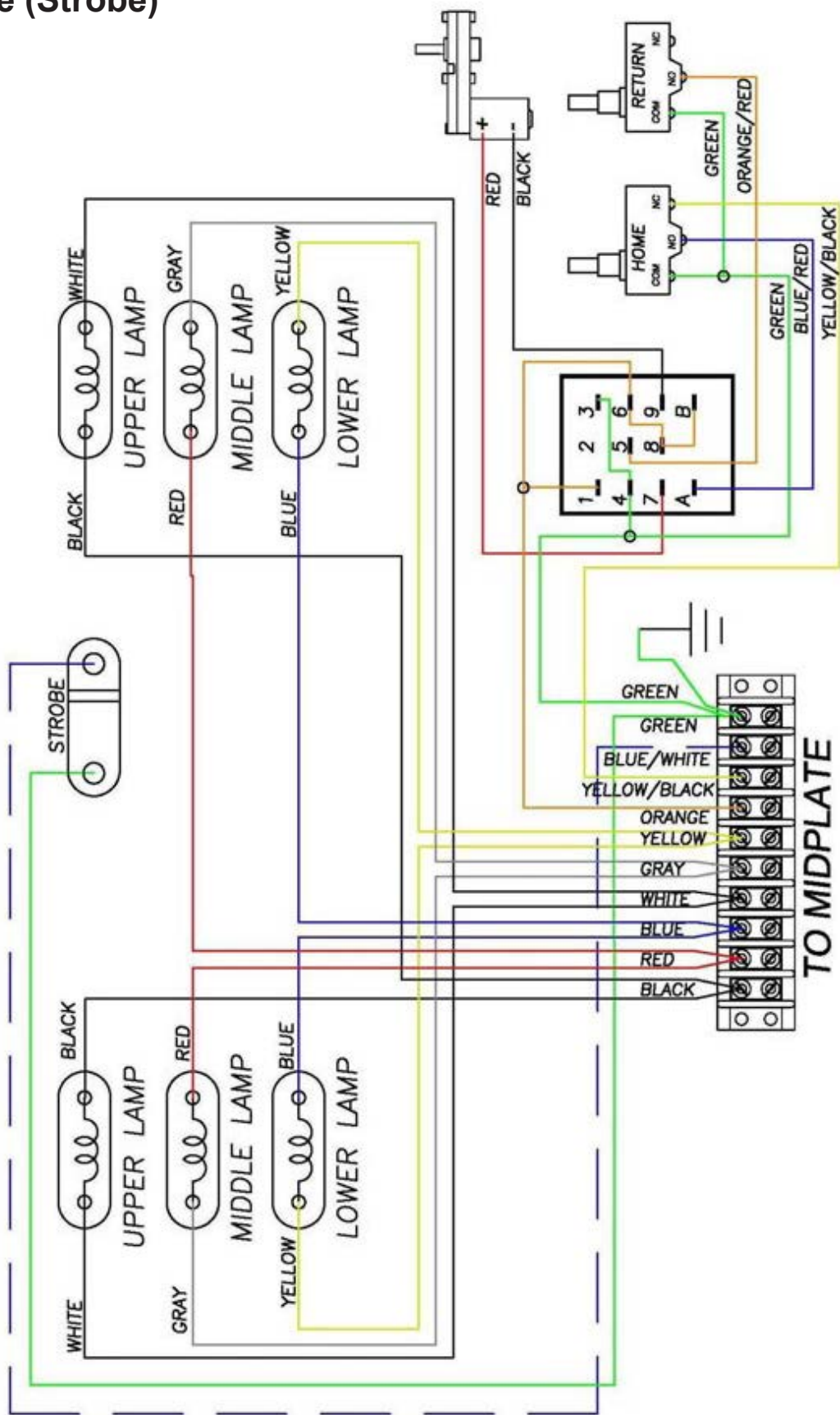
FOR USE WITH ALL COMMAND LIGHT MODELS
MAIN BOARD REV 5.3, DIAGRAM REV 3

OPS WIRELESS CONTROLLER



Lamp Tree (Strobe)

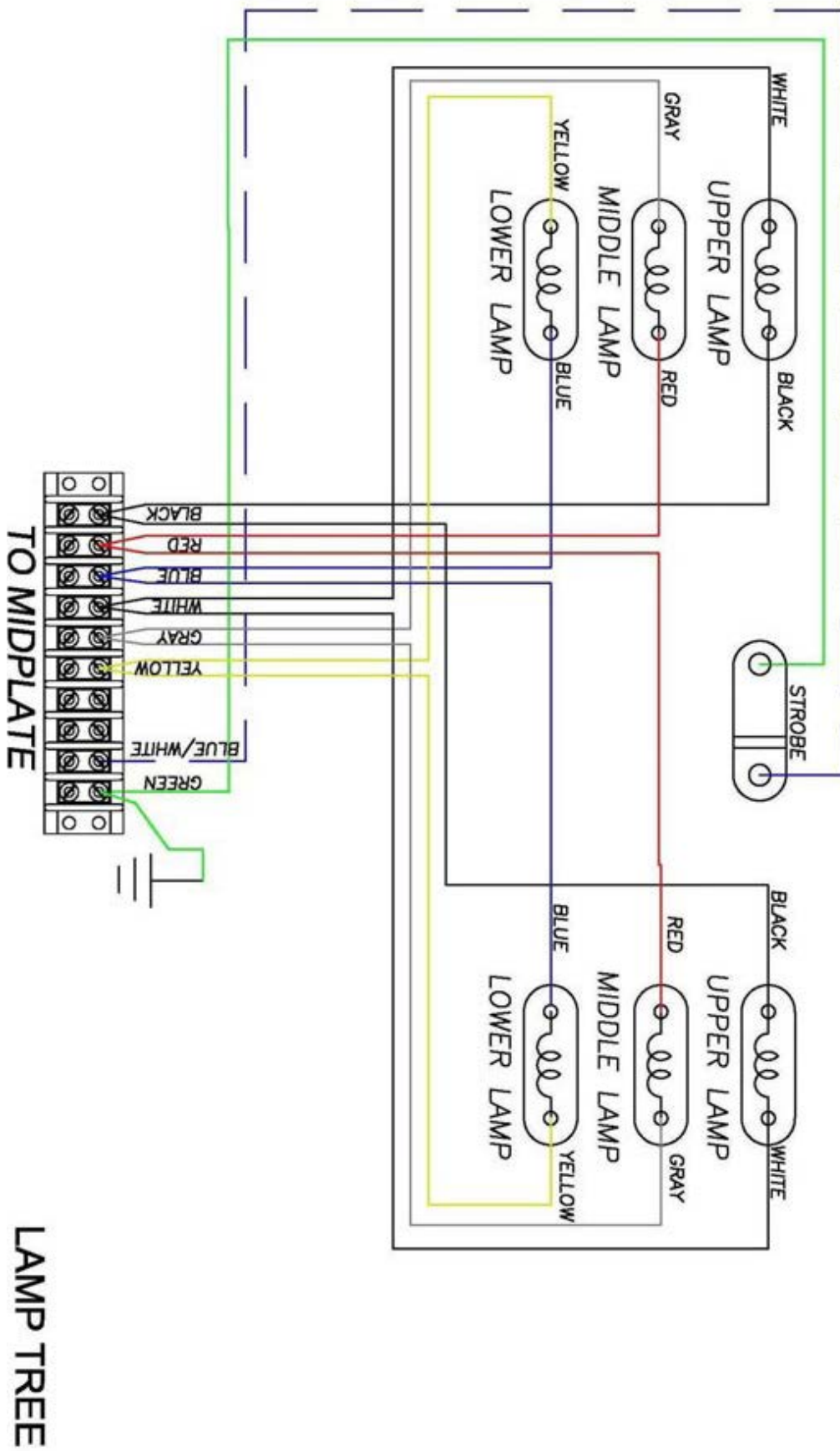
COMMAND LIGHT
MODELS 605/607/609/610/611/615
with BACKLIGHT
10/5/2009



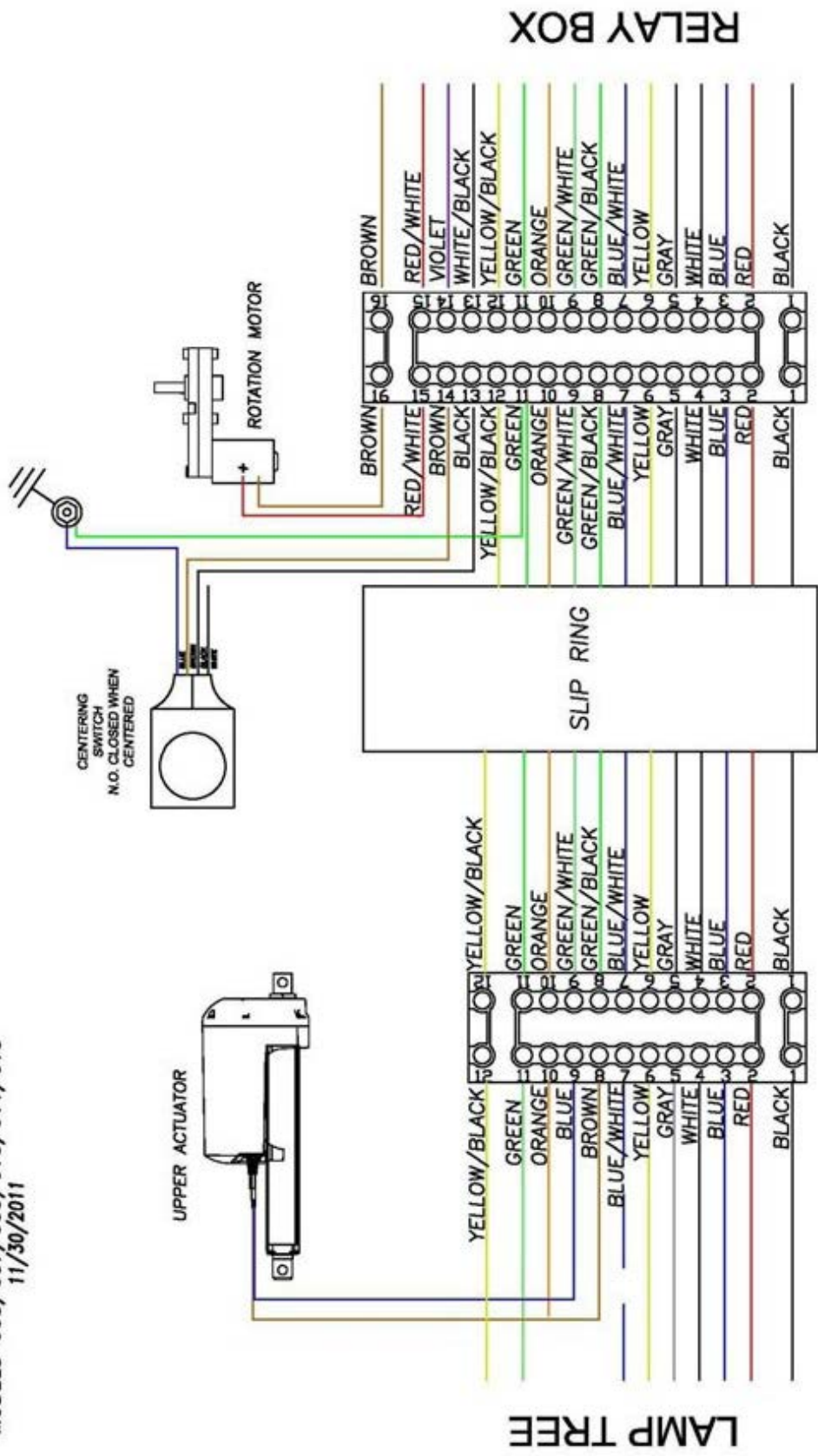
LAMP TREE

COMMAND LIGHT
 MODELS 605/607/609/610/611/615
 10/5/2009

Lamp Tree (Backlight)



COMMAND LIGHT
MODELS 605/607/609/610/611/615
11/30/2011



MIDPLATE

