

COMMAND LIGHT SL422D SHADOW Series Versatile Flood Lighting User Guide

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This guide supersedes all previous versions
3842 Redman Drive
Fort Collins, CO 80524
MODEL COVERED:

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SL422D SHADOW Series Versatile Flood Lighting

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.\



DANGER

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. P0. Box 147, Lynnfield , MA 01940 www.FEMSA.org

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Read this manual before installing or operating the COMMAND LIGHT SHADOW RTB . Save this guide for future reference.

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.

- Contact us immediately for initial diagnosis at <u>info@commandlight.com</u> or 800-797-7974; or if parts are needed contact <u>parts@commandlight.com</u>.
- 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 a filed 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.

WARNING

Product Safety Precautions

[Never operate the COMMAND LIGHT SHADOW RTB near overhead high voltage power lines. The COMMAND LIGHT SHADOW RTB is manufactured from electrically conductive materials.



O Do not use the COMMAND LIGHT SHADOW RTB for uses other than its intended purpose.

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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.

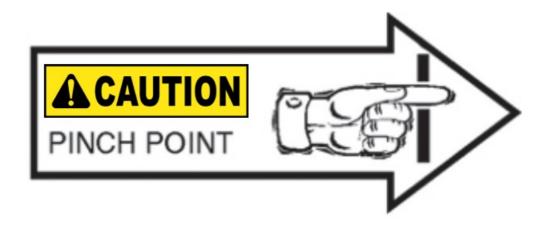
Do not use a high-pressure washer or subject the light to high volumes of water when cleaning.

Never use the COMMAND LIGHT SHADOW RTB as a lifting device or mobile arm.

Do not use a COMMAND LIGHT SHADOW RTB that has been damaged or is not fully functional, including non-working indicator lamps.

Never hold any part of the COMMAND LIGHT SHADOW RTB with a hand or foot while it is in motion.

The COMMAND LIGHT SHADOW RTB has numerous pinch points. Keep loose clothing, hands and feet clear of moving parts.



General Description and Specifications

The SHADOW RTB is designed to provide high intensity emergency scene lighting with quick precision. As with any electromechanical device, take precautionary steps to ensure safe operation.

Model #	Description	Minimum Power Requirements
SL422D	2 x LED	50 Amps, 12 VDC
SL442D	4 x LED	90 Amps, 12 VDC

The vehicle provides power for the 12 VDC circuitry. A 15 Amp breaker is recommended.

The umbilical corded control unit is powered via 12 VDC eliminating hazardous voltage levels within the hand held control box.

The SHADOW RTB is manufactured to provide years of service with a minimum of maintenance.

Operation

Raising the light from the nested position

Using the control box, raise the lower stage. Control switches are of momentary action style and must be held in the "on" position to actuate the stages.

The SHADOW RTB has an override system that precludes rotation of the lamp tree until the lower stage has elevated approximately 16" from the nested position. When the lower stage is below 16" the following conditions exist:

- amp Tree is prevented from rotating.
- All lights are turned off, including strobe light if equipped, regardless of light switch positions.
- Prevents the lower stage from moving down if lamp tree is not centered.
 If the supply from the vehicle is marginal, position the SHADOW RTB before turning on lights.

Returning the light to the nested position

The KNIGHT 2 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.

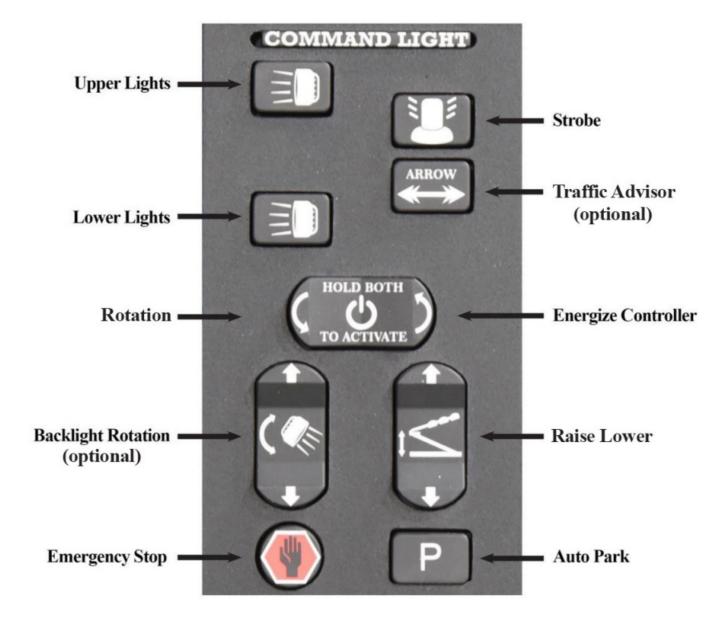
Pressing the "Emergency Stop" button will cancel the Autopark sequence.

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" Iight 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.

Controller



Installation

CAUTION

The SHADOW RTB must be installed by a designated installation facility or by an EVT certified Level FA4 Technician. All safety precautions must be thoroughly understood before installation. Please consult the factory for additional installation information assistance. Improper installation can cause overheating of electrical power wires that could catch fire and void the warranty.

Ensure all wiring is properly protected with correct sized breakers and fuses before connecting to the power source.

DC powered light towers require a high current draw to provide high levels of lighting. Verify all connected electrical components are able to handle the load for this light tower as listed in the Technical Specifications on page 17.

If in doubt, contact Command Light at 1-800-797-7974 or info@commandlight.com.

Installation Kit

Included with the SHADOWRTB is an installation kit. Verify that the kit contains the following items:

- (1) 25 feet of 2GA-2 Conductor power cable (1) 25 feet of 22GA-20 conductor cable
- (1) Pre-wired HOLSTER BOX w/cover
- (1) Handheld Controller
- (1) Small hardware parts bag with:
- (4) mounting spacers
- (4) 5/16-18 X 2 1/2" bolts
- (4) 5/16-18 nylon lock nuts
- (8) 5/16" 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

Tools Required

Lifting device (crane, forklift, block and tackle, etc.)

Sling for lifting Drill 21 /64", 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) 7 /16" and 1 /2" combination wrenches and/or ratchet and 7 /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, RTVTM recommended

Installation Notes

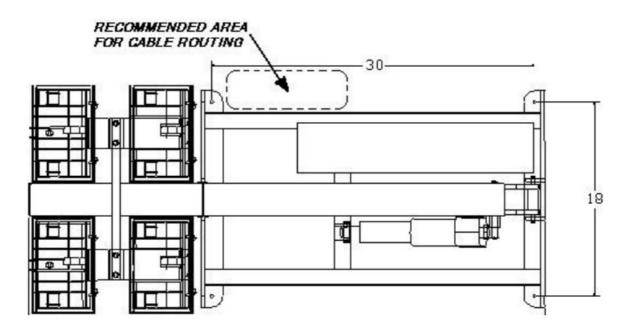
The SHADOW RTB weighs approximately 75 pounds. Use mechanical assistance such as a forklift or crane to lift the light into installation position.

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 SHADOW RTB is not designed to be operated in a raised position while the vehicle is in motion. The SHADOW RTB includes warning circuit wiring to enable a warning device.

Location Requirements The standard SHADOW RTB can be mounted on any location that is 34" x 22". The surface should be flat or have only a slight crown. For a recessed installation allow for a minimum of 60" x 38". Consult with factory before construction f recessed installation. Verify all dimensions before installation to assurem proper operation of light will not infringe on other installed components. For all other installations refer to the dimensional drawing on page 17 of this guide that represents your particular model of light. The drawings reflect the dimensions of the "working envelope" of a typical light. Endure sufficient clearances are incorporated in your installation to allow for variations (vehicle body flex, environmental conditions, future servicing needs, etc.)



Four mounting bolts are required. Additional holes may be drilled in the frame ends if necessary to clear obstructions.

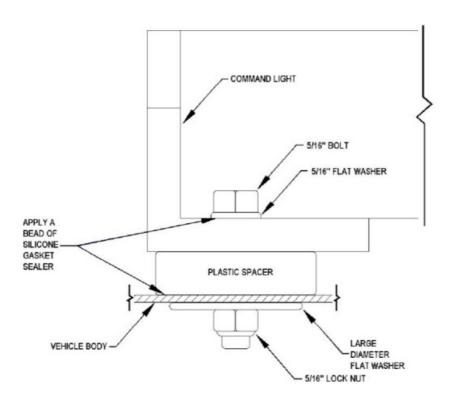
Access holes for the power cord cabling should be in close proximity to the entrance box on the light. Installing the cords with a sweeping 90° or 180° bend will provide better results.

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 SHADOW RTB. The center of gravity (balance point) is slightly below the rotation assembly.





Slowly lift the SHADOW RTB and check for balanced lifting. Lower and make any necessary adjustments to the lift points.

Lift and place the SHADOW RTB into position above the spacers. Before placing the full weight of the light tower on the spacers, align spacers with the holes in the end frame castings. Drill 21 /64" 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 SHADOW RTB. Locate and drill the wire feed holes.

Control Box Holster Mounting

Using the holster as a template, mark locations of holes. Drill 17 /64" mounting holes. Drill any holes required to route the control wire from the control box to the SHADOW RTB .

Mount holster box with provided hardware.

Electrical Wiring

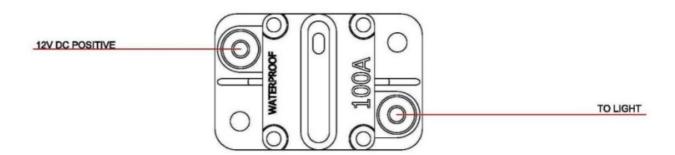
Please Note: Detailed internal wiring schematic for the light is found in the supplement pages found at the end of this document.

Run the control wire from the control box holster to the SHADOW RTB.

Run the power wire from the breaker box or generator to the SHADOW RTB . A 100 Amp breaker is recommended on DC models.

Make the control cable connections in the SHADOW RTB relay box by matching each control wire to its same color on the connector block of the SHADOW RTB relay box. The SHADOW RTB model SL442D comes prewired to connect to 12 VDC.

12 VDC



Warning Device Installation

The SHADOW RTB nest sensor can be used to activate a warning device when the light is extended. Typically the vehicle will have a light or buzzer that activates when the compartment doors are open. The connector for hooking up a warning device is located in the holster box that holds the control unit.

Maintenance

Cleaning

The SHADOWRTB 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. The lower stage actuator is a sealed unit and does not require adjustment or lubrication. They also have a slip-clutch 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 actuator should not be made to ratchet excessively, this can lead to premature actuator clutch failure. All pivot points on the SHADOW RTB 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.

Power Failure

The SHADOW RTB 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 SHADOW RTB.

Rotate to Center

Slowly apply pressure to the midplate to manually rotate to the centered position. Trying to rotate the midplate too quickly or with too much pressure can break the rotation motor shaft. Be certain that you rotate the midplate in the proper direction as the lamp tree can rotate only 350°.

Retract the Lower Stage

Locate the silver plug located on the actuator below the actuator's motor. Use the provided hex tool (6mm hex bit) 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.

Troubleshooting

Problem	Possible Cause	Solution
Unit will not extend	No power to the unit	Check power input connections. En sure 100 Amp input breaker has no t been tripped.
	Incorrect installation	Refer to installation instructions.
Upper stage will not rotate	Lower stage not raised above 16"	Raise lower stage higher.
Opper stage will not rotate	Rotation motor failure.	Consult with factory.
	Lower stage not raised above 16"	Raise lower stage higher.
Lights will not illuminate.	Circuit breaker tripped.	Check circuit breaker at power sup ply.
	No power to the unit.	Check power supply operation/ out put.
Unit will not nest	Lamp tree not centered	Raise lower stage higher than 16". Center lamp tree (green light illumi nated)
	Unit being operated on a slope >50	Level Truck. If problem persists, rot ate lamp tree to center, using a pike pole, hold unit centered while lower ing to nest position.
Autopark button must be held in to	Faulty or stuck nest switch.	Check nest switch ground and oper ation. Rubber boot may have shrun k and is holding in switch.
park unit	Water in electronics.	Remove moisture from ground poin ts and electronics. Do not use a pre ssure washer to clean unit.
No lights or rotation	Check safety limit sensor, bad, etc.	Contact factory for replacement par t.
Autopark is off Center	Center switch out of alignment.	Contact factory for replacement par t.

PWR ERROR ON OFF	READY TO GO
PWR ERROR OFF OFF	NO POWER AND/OR NO GROUND AT EITHER CBAT OR VBAT TERMINALS CHECK VBAT, CBAT, AND GND TERMINALS. SHOULD HAVE 12-18 VDC CHECK 2 AMP FUSE AT MAIN BOARD
PWR ERROR FLASH 1X PAUSE FLASH 2X PAUSE REPEAT	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.
PWR ERROR FLASH 1X PAUSE FLASH 3X PAUSE. REPEAT	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.
PWR ERROR FLASH 1X PAUSE FLASH 4X PAUSE	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. IF NOT USING VMUX, ENSURE BLACK/WHITE WIRE IS TERMINATED INTO THE CTRL TERMINAL AND THAT THIS TERMINAL HAS 12VDC.

Technical Specifications – Standard DC Model (SL422D, SL442D)

Dimensions (with strobe and ½" mounting spacers) – May vary by model and options:

	Height(Depth)	Length	Width
Retracted	8"	54"	34"
Extended	52"	56"	34"
Recessed installation	10"	62"	40" Minimum

Weight: 75 pounds

Wiring:

Main Power VDC	2/2 SO cord	25' provided
Control wiring	22/20 PVC Jacketed	25' provided

Relay protection:

Lights Cole-Hersey 3055 100 amps Current Draw / Power Requirements:

Fixture	Average
2 x 150 Watt LED	12 VDC/40 amps
4 x 150 Watt LED	12 VDC/60 amps
2 x 220 Watt LED	12 VDC/50 amps
4 x 220 Watt LED	12 VDC/90 amps

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 minutes) Rotation 5-6 Revolutions

Motor Speed:

Lower stage 0.5 inches per minute 14 seconds to full extension

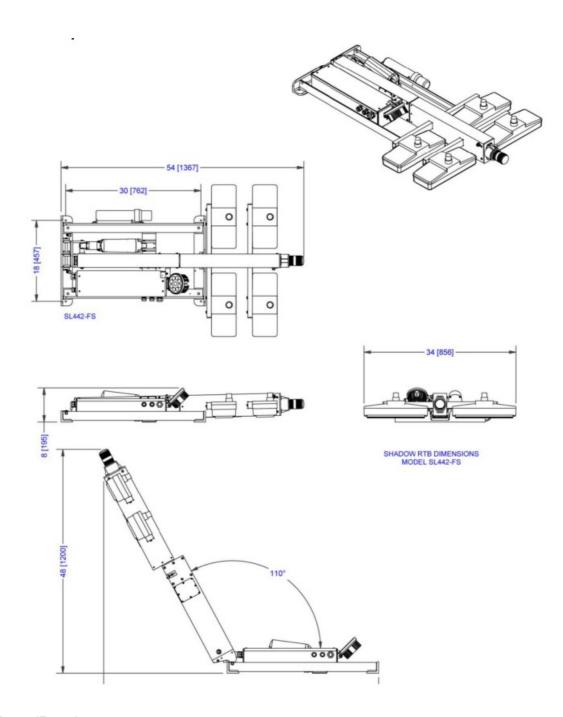
Rotation

2.75 RPM at lamp tree

Operation:

Angle of vehicle 15° maximum incline

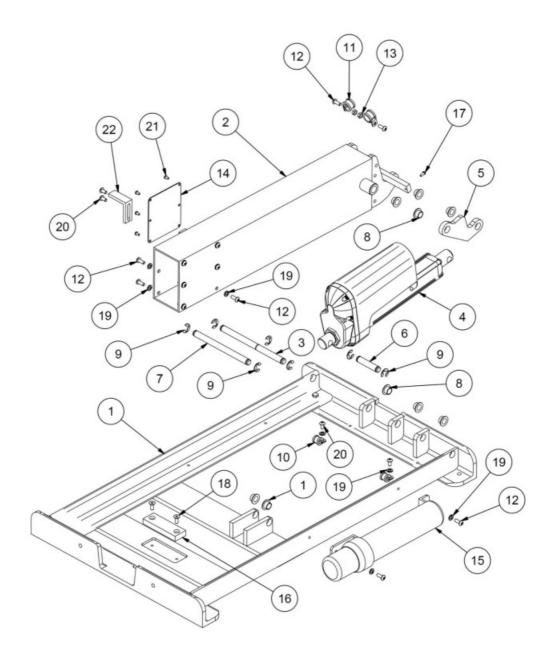
Specifications



Parts List – (Base)

	PARTS UST			
1704	1704 QTY PART NUMBER		DESCRIPTION	
1	1	178-01100	FRAME, WELDMENT, SHADOW RTB	
2	1	178-02300	ARM, MAIN LIFT, WELDMENT,SHADOW RT B	
3	1	178-01502	PIN,LOWER,P1VOT,SHADOW RTB	
4	1	069-15411	ACTUATOR,LINEAR,ISOMM,12VDC,1A36	
5	1	178-01008	ARM,TRAILING,UFT,SHADOW RTB	
6	1	178-01501	PIN,LOWER,ACTUATOR,SHADOW RTB	
7	1	178-01500	PIN,UPPER,ACTUATOR,SHADOW RTB	
8	9	067-14200	BEARING,FLANGED,IGUDEJFI.0809-06	
9	7	069-15336	E-Ring, 5133-50, .0447, SS	
10	2	065-13084	CAMP,LOOM,#4,SS	
11	2	065-12365	CIAMP,LOOM,*6,SS	
12	16	069.01140	SCREW,BH,HEX,6x1x16,SS	
13	2	069-01126	Nut, MS, M6x1.00	
14	1	178-02097	COVER,ACCESS PANEL,UFT ARM,SHADO W RTB	
15	1	065-15001	CANISTER,DOCUMENT,BLACK	
16	1	178-04053	PAD, NEST, SHADOW RTB	
17	1	069-01133	SCREW,BH,HEX,M4x0.7×10,SS	
18	2	069-01114	SCREW,FHSH,M6x1x16	
19	16	034-11028	WASHER,LOCK,SPRING,REGULAR, 1/4", S S	
20	4	069-01103	SCREW,BH,HEX,6x1x12,SS	
21	6	034-13092	SCREW,BH,HDC,M4x0.7x8,SS	
22	1	178-02099	BRACKET, NEST SWITCH, SHADOW RTB	

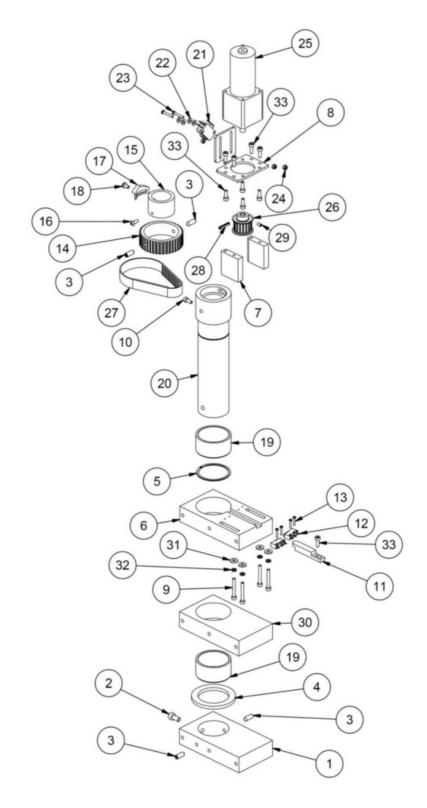
Exploded View – (Base)



Parts List – (Mid-Plate)

	PARTS LIST				
ITEM	ITEM QTY PART NUMBER		DESCRIPTION		
1	1	178-03002	PLATE, ROTATION DRIVEN, SHADOW RTB		
2	1	069-01103	SCREW,SHCS,SHCS M6x1x12		
3	5	034-13683	SCREW,SH SET,M6x1.0 x 16rnm,SS		
4	1	178-03010	BEARING,THRUST,ROTATION,SHADOW R		
5	1	065-12382	RING,SPIROLOX,2-TURN,WS-175		
6	1	178-03001	PLATE, ROTATION DRIVE, SHADOW RTB		
7	2	178-03006	STANDOFF,MOTOR,ROTATION,SHADOW R		
8	1	178-04084	MOUNT,MOTOR,ROTATION,SHADOW RTB		
9	4	034-13063	SCREW,SHCS,SHCS M4x0.7×30		
10	1	034-13066	SCREW,SHCS,SHCS M4x0.7×10		
11	1	178-03005	STOP,ROTATION LIMIT,SHADOW RIB		
12	2	065-12383	SWITCH,LIMIT,CHERRY,SPDT,5A,125V,SRT EIL		
13	4	034-03070	SCREW,PHP,2-56 UNCx0.5		
14	1	178-03007	LARGE PULLEY,MID PLATE,SRTBL		
15	1	178-03009	CAM,ROTATION CENTER,SHADOW RTB		
16	1	069-01133	SCREW,BH,HEX,M4x0.7×10,SS		
17	1	178-04077	SWITCH,LIMIT,MIDPLATE,RTB		
18	1	034-13092	SCREW,PPH,M4 X 8		
19	2	065-12384	BUSHING,BRONZE,1.753 x 2.004 x 1,SRTB L		

Exploded View – (Mid-Plate)



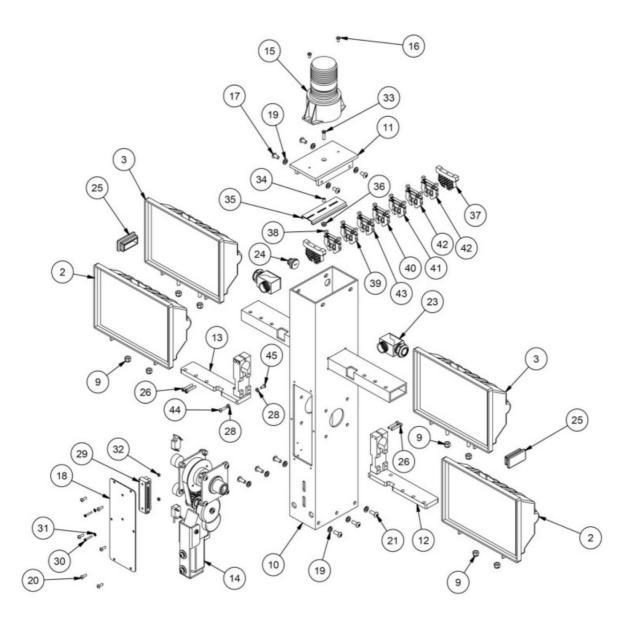
Parts List – (Lamp Tree)

ITEM	QTY	PART NUMBER	DESCRIPTION
2	2	178-44SFIXT	LAMP,SUBASSEMBLY,BACKLIGHT,ST D,SHADOW RTB
3	2	178-44SFIXT	LAMP,SURA5SEMBLY,FIXED,STD,SH ADOW RIB
9	8	034-11033	NUT,NYLOCK, 1/4-20 UNC,SS
10	1	178-04000	TREE,BARE,VVELDMENT,SHADOW R TB

11	1	178-05100	MOUNT, STROBE, SHADOW RTB, WE LDMENT
12	1	178-04017	MOUNT,LEFT,BACKLIGHT,SHADOW R
13	1	178-04018	MOUNT,RIGHT,BACKLIGHT,SHADOW RTB
14	1	RTB_ESI—Assembly	
15	1	065-12867	STROBE, PRE-WIRED, INDICATE COL OR
16	2	034-13092	SCREW,PPH,M4 X 8
17	4	069-01103	SCREW,81-1,HEX,6x1x12,SS
18	1	178-04009	COVER,ACCESS,LAMP TREE,SHADO W RIB
19	10	034-11028	WASHER,LOCK,SPRING,REGULAR, 1 /4", SS
20	6	069-01102	SCREW,BH,HE(,4×0.7×12,SS
21	6	069-01140	SCREW,BH,HEX,6x1x16,SS
23	2	065-12851	STRAIN RELIEF,DOMED 90,SCR .39 55,1/2 NFT,BLACK
24	1	069-15392	CONXALL, MINICON, 2 PIN, PANEL
25	2	065-12373	PLUG,FINISHING,1×2,SRT-BL,ROM C
26	4	034-13062	SCREW,SHCS,SPCS M4x0.7×25
28	2	069-01125	Nut, MS, M4x0.7
29	1	065-12827	STRIP, BARRIER, 12 POLE
30	2	034-13288	SCREW,PHP,4-40 UNCx0.75
31	2	034-14283	WASHER,LOCK,18-8SS,INTERNAL,44
32	2	034-10902	NUT,MS,HE(2,440UNC,SS
33	1	034-10975	SCREW,FHPMS,10-24 UNC x 3/4 in,SS
34	1	078-03013	SPACER,DIN RAIL,STROSE MOUNT
35	1	069-01000	RAIL, DIN, SLOTTED, 7.5MM X 35MM 4 in.
36	1	034-13081	NUT,NYLOCK,THIN, 10-24 UNC,SS
37	2	065-10075	BRACKET,END,DIN,DN-EB35
38	1	065-10069	BLOCK,TERMINAL,DIN,DN-T10-8LAC
39	1	065.10068	BLOCKTERMINAL,DIN,DN-T10-BLUE

40	1	065-10073	BLOCKTERMINAL,DIN,DN-T10-WHITE
41	1	065-10074	BLOCK,TERMINAL,DIN,ON-T10-YELL OW
42	2	065-10070	BLOO(,TERMINAL,DIN,DN-T10-GREE N
43	1	065-10068	BLOCK,TERMINAL,DIN,ON-T10-8LUE/ WHITE
44	1	069-01134	SCREW,BH,HEX,M4x0.7×16,SS
45	1	069-01133	SCREW,8I1,HEX,M4x0.7×10,SS

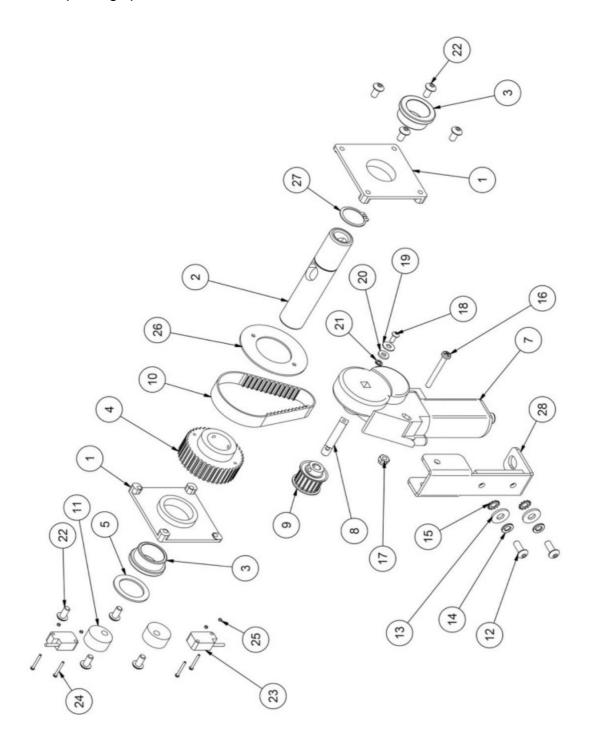
Exploded View – (Lamp Tree)



Parts List – (Backlight)

PARTS UST			
ITEM	QTY	PART NUMBER	DESCRIPTION

1	2	178-04002	SUPPORT,SHAFT,FIVOT,SHADOW RTB
2	1	178.	SHAFT,DRIVEN,SHADOW RIB
3	2	MFI-1620-10	BuSHING,FLANGED,IGLIDE,MF1-16204
4	1	178-04003	PULLEY,HTD,SRT BACK UGHT,RAW
5	1	178-04016	SHIMGPACER,BACKLIGHtSHADOW RI B
7	1	065.12374	MOTOR,THRU HOLE,12 VDC
8	1	178-04010	SHAFF,STUB,DRIVE,SHADOW RTB
9	1	065-12378	PULLEY,HTD,P5mm,W15mm,G17,DF,B8 mm
10	1	065-12376	BELT,HTD,P5mm,GSS,SRT BL
11	2	178-04007	STOP,ROTATION,BACBLIGHT,SHADOW RTB
12	2	069-01140	SCREW,BH,HEX,6x1x16,SS
13	2	034-11029	WASHER,FLAT,USS, 1/4", SS
14	2	034-11028	WASHER,LOMSPRING,REGULAR, 1/4", SS
15	2	SID HARDWARE-10%0-52	WASHER,LOCK,18-1355,DMERNAL,1/4
16	1	S11) HARDWARE-PHP-49	SCREW,PHP,MS,10-24UNCX1-3/4,SS
17	1	034-10981	NUT,NYLOO(, 10-24 uNC,SS
18	1	069-01133	SCREW,I3H,HEX,M4#0.7×10,SS
19	1	034-11124	WASHER,FLAT,FENDER, 10 X 11/16, S S
20	1	034-10947	WASHER,FLAT,SAE, #8, 55
21	1	034-11175	WASHER,LOCX,SPRING,REGULAR, 11 13, SS
22	8	069-01103	SCREW,BH,HEX,6x1x12,SS
23	2	069-14160	SENSOR,PROXIMITY,4-WIRE
24	4	STD HARDWARE-07	SCREW,PHP,2-56 UNOt0.75
25	4	SID_HARDWAFtE-10301	NUT,MS,NE(1,2-56UNC,S5
26	1	178-04024	GuARD,BELT,EILIGHT,SHADOW RIB
27	1	065-12380	RING, RETAINING,1" STAINLESS STEE L
28	1	178-04027	MOUNT,MOTOR,DRIVE,AERIAL



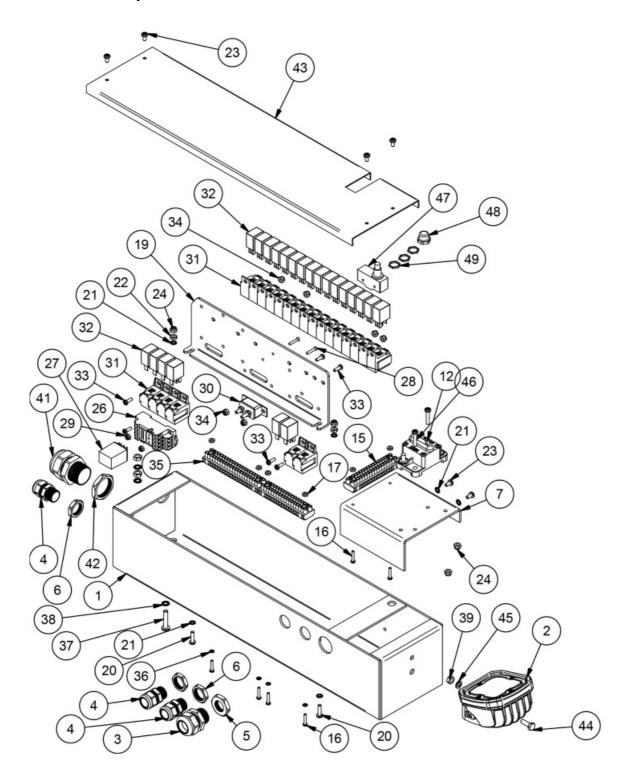
Parts List – DC Relay Box

	PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	1	178-04075W	WELDMENT, RELAY BOX EXT., SHADOW RTB	
2	1	065-14784	LOOKUP LIGHT,LED, KNIGHT,SHADOW	
3	2	065-12854	STRAIN RELIEF,DOMED,SCR .5171,3/4 NPT,BLACK	
4	3	065-12852	STRAIN RELIEF,DOMED,SCR .24-A7,1/2 NPT,BLACK	
5	2	065-12857	LOCKNUT,NYLON,3/4 NPT,BLACK	

6	3	065-12856	LOCKNUT,NYLON,1/2 NPT,BLACK
7	1	178-04076	BRIDGE, ELECTRICAL, RELAY BOX, RTB
12	1	065-13507	BREAKER,100 AMP,MANUAL RESET
15	2	065-12828	TERMINAL STRIP,16 POLE
16	6	034-10919	SCREW,PHP,6-32 UNCx0.75
17	6	034-11162	NUT,MS,HEX2,6-32UNC,SS
19	1	079-00005	PLATE,RELAY MOUNT,ALL
20	2	034-10966	SCREW,PHP,10-24 UNCx0.75
21	6	034-10978	WASHER,LOCK,18-8SS,INTERNAL,#10
22	2	034-13100	NUT,MS,HEX2,10-24UNC,SS
23	6	034-10961	SCREW,PHP,10-24 UNCx0.375
24	6	034-10981	NUT,NYLOCK, 10-24 UNC,SS
26	1	065-14187	RELAY SOCKET,3A,14 PIN,SRT BUILDS
27	1	065-14186	RELAY,BL,AUTO PARK,CL,SRT,MY2KDC12
28	2	034-11187	SCREW,FHPMS,6-32 UNC x 3/4 in,SS
29	2	034-13098	NUT,NYLOCK, 6-32 UNC,SS
30	1	065-13529	BREAKER, 12V 20A, SINGLE POLE
31	22	065-13730	Socket, Single Pole, Relay
32	22	065-13738	RELAY, 12V, SINGLE POLE
33	12	034-10939	SCREW,PHP,8-32 UNCx0.5
34	12	034-10951	NUT,NYLOCK, 8-32 UNC,SS
35	1	065-12890	STRIP, BARRIER, 20 POLE
36	4	034-13682	WASHER,LOCK,18-8SS,INTERNAL,#6
37	1	034-13690	SCREW,PHP,1/4-20 UNCx1.25
38	3	034-10110	WASHER,LOCK,18-8SS,INTERNAL,1/4in
39	3	034-11112	NUT,MS,HEX2,1/4-20UNC,SS
41	1	065-12792	STRAIN RELIEF,DOMED,SCR .7198,1 NPT,BLACK
42	1	065-12791	LOCKNUT,NYLON,1 NPT,BLACK
43	1	178-04074	COVER,RLY BOX,SHADOW RTB, EXTENDED
44	1	034-11016	SCREW,HH,1/4-20×3/4,SS
45	1	034-11028	WASHER,LOCK,SPRING,REGULAR, 1/4", SS
46	4	034-10968	SCREW,PHP,10-24 UNCx1
47	1	069-15360	SWITCH, DOWN LIMIT / NEST / BL LIMIT
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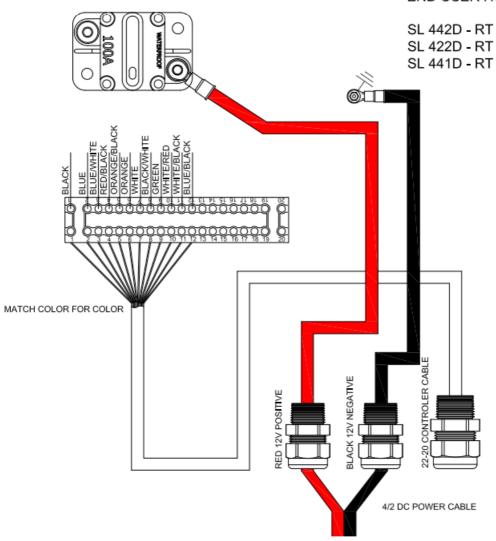
48	1	065-12935	BOOT,PUSHBUTTON,BLK,BACK LIGHTS
49	3	069-15360	NUT,SWITCH, DOWN LIMIT / NEST / BL LIMIT

Exploded View – DC Relay Box

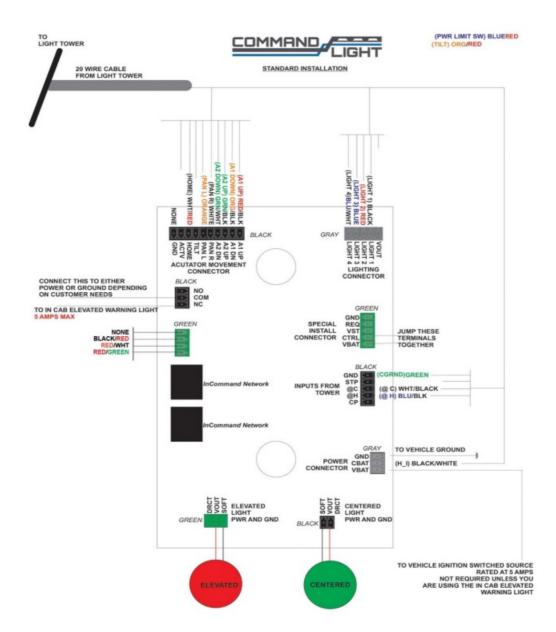


Wiring Schematics

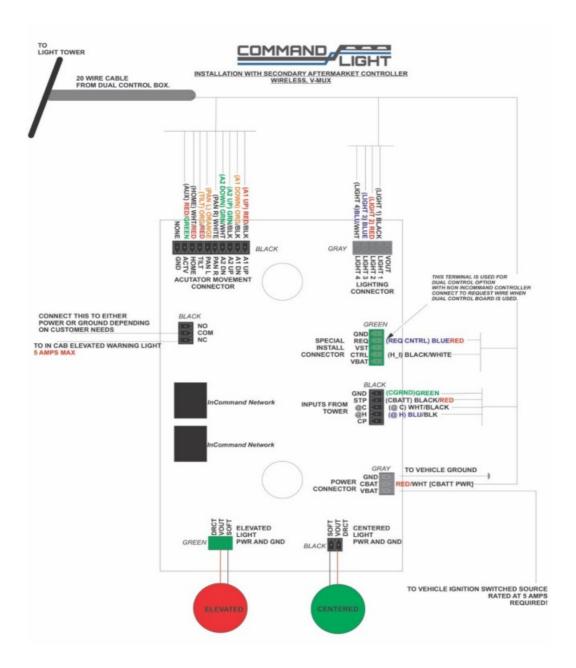
END USER HOOK-UP DIAGRAM



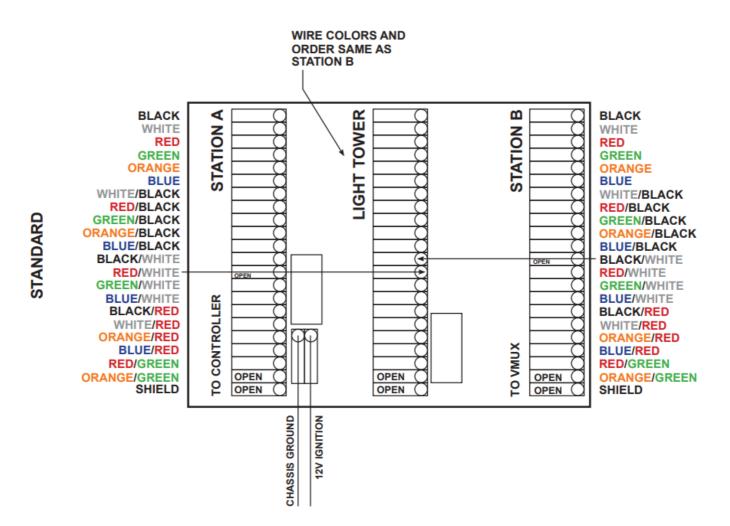
Holster Box

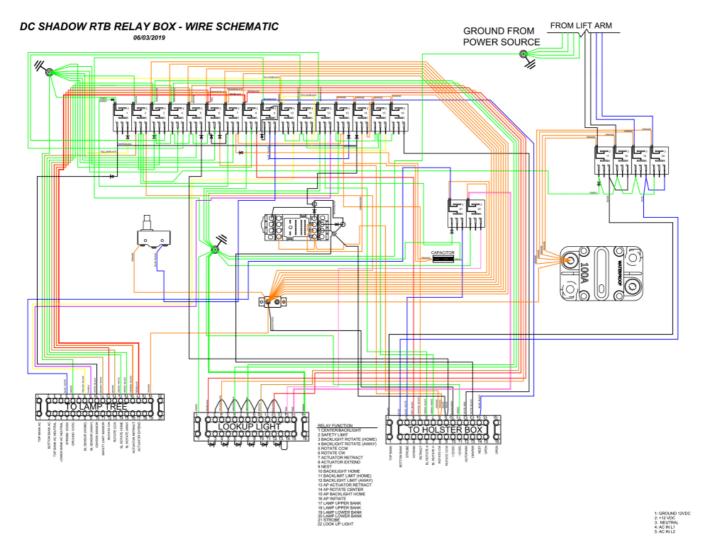


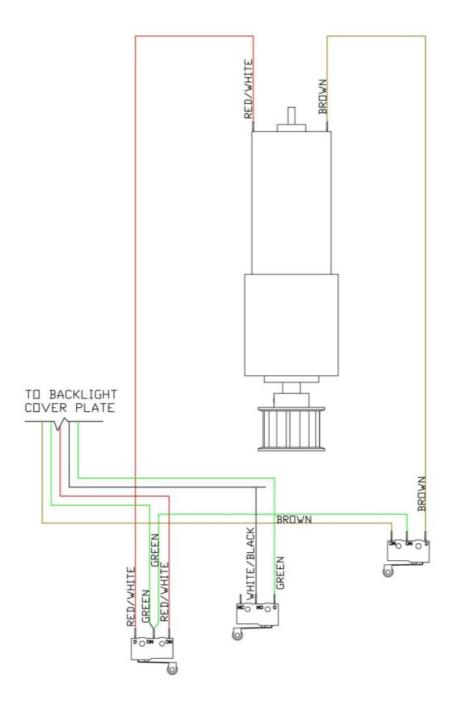
Holster Box



STANDARD







SHADOW RTB ROTATION ASSEMBLY

1-800-797-7974

www.CommandLight.com



3842 Redman Drive Fort Collins, CO 80524 PHONE: 1-800-797-7974 FAX: 1-970-297-7099

WEB: www.CommandLight.com

Documents / Resources



<u>COMMAND LIGHT SL422D SHADOW Series Versatile Flood Lighting</u> [pdf] User Guide SL422D, SL422D SHADOW Series Versatile Flood Lighting, SHADOW Series Versatile Flood Lighting, Versatile Flood Lighting, Flood Lighting, Lighting

References

• Eire Truck Scene Lights | Command Light Towers and LED Traffic Advisors

Manuals+,