



Effective September 2024
This guide supersedes all previous versions

3842 Redman Drive Fort Collins, CO 80524 MODEL COVERED: SL422D SL442D ARCTIC

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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COMMAND LIGHT SHADOW^{RTB}.

Save this guide for future reference.

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Fort Collins, CO 80524 WEB: www.CommandLight.com

LIMITED WARRANTY

Five Year

COMMAND LIGHT warrants that the equipment is free from 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 any parts found defective. Parts must be returned to **COMMAND LIGHT** at 3842 Redman Drive, Ft Collins, Colorado 80524 with transportation charges prepaid (C.O.D. shipments will not be accepted).

Prior to returning defective parts to *COMMAND LIGHT*, the original purchaser shall make a claim in writing to *COMMAND LIGHT* at the above address indicating the model number, serial number and type of defect. No parts or equipment will be received by *COMMAND LIGHT* for repair or replacement under this warranty without specific written authority from it in advance.

Any parts damaged by improper installation, overloading, abuse or accident of any type or cause are not covered by this warranty.

All equipment manufactured by us is tested before leaving our plant, and is shipped in good working order and condition. We therefore extend to the original purchasers the following Limited Warranty for the period of five years from the original date of purchase:

- 1. This warranty does not apply to defects caused by accident, misuse, neglect, or wear and tear, nor can we be held responsible for incidental and consequential expense and loss, nor does this warranty apply to equipment where alterations have been executed without our knowledge or consent. These conditions are readily discernible when the equipment is returned to us for inspection.
- On all component parts not manufactured by *COMMAND LIGHT*, their warranty is to the extent that
 the manufacturer of such component warrants them to *COMMAND LIGHT*, if at all. Look in your
 local business telephone directory for the nearest repair station for the brand of parts you have or
 write to us for the address.
- 3. If equipment received has been damaged in transit, a claim should be made against the carrier within three days, as we assume no responsibility for such damage.
- 4. Any service other than our Authorized Service voids this warranty.
- 5. This warranty is in lieu of and is intended to exclude all other warranties, express or implied, oral or written, including any warranties of <u>MERCHANTIBILITY</u> or <u>FITNESS</u> for a particular purpose.
- 6. Travel time paid at a maximum of 50% and only if pre-approved.

Warranty/Service

COMMAND LIGHT products* come with a industry leading 5 year warranty against any defects in materials and workmanship when used and operated for a period of five years. 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 **COMMAND LIGHT's** warranty.

- Contact us immediately for initial diagnosis and parts if needed at 800-797-7974 or info@commandlight.com
- 2. You will need to have immediate access to light tower. 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 a technician dispatched (if needed) with a written work authorization number and a base amount of hours allotted to do repair
- 4. We remain available for service support via phone, email, or video conference while technician completes repair, also to extend original time allotted if additional issue arise
- 5. Mark repair as completed and validate the work authorization number for hours of labor /travel rates as agreed during diagnosis
- 6. Finally, we will pay out or credit the invoice when we receive it from person/company performing the repair

Please make contact with us as soon as problems arise in order to execute our warranty. We must have knowledge of the issue and a work order in place in order to pay or reimburse the department with the issue. Any unauthorized service voids this warranty. (No work is authorized until the call is made to us)

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

*excludes light producing components (bulbs, lasers, LEDs)

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 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.

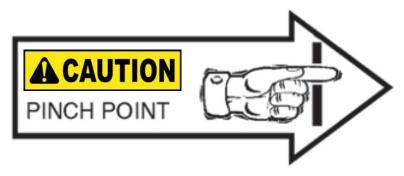


Product Safety Precautions

- Never operate the COMMAND LIGHT SHADOW^{RTB} near overhead high voltage power lines. The COMMAND LIGHT SHADOW^{RTB} is manufactured from electrically conductive materials.
- Do not use the *COMMAND LIGHT SHADOW*^{RTB} for uses other than its intended purpose.
- O not move emergency vehicle with the light extended. Visually verify that the light is completely nested before moving vehicle.



- On not change light position while people are located within its operating envelope. There are numerous pinch points that can cause serious bodily injury.
- O Do not use a high-pressure washer or subject the light to high volumes of water when cleaning.
- \bigcirc 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. 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:

- Lamp 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

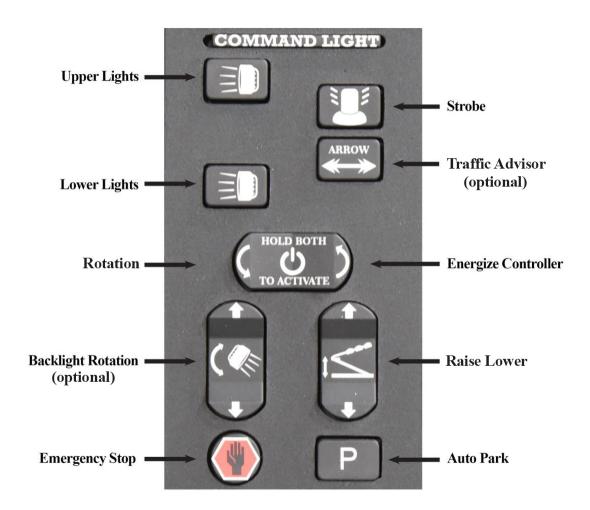
The **SHADOW**^{RTB} is equipped with an Autopark function as a standard feature. The "P" button on the control box initiates the Autopark sequence. Once initiated, the "Emergency Stop" button indicator is illuminated. Pressing the "Emergency Stop" button will cancel the Autopark sequence.

Autopark Sequence

Press "P" 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, the "Emergency Stop" \\ \bigset{\text{light light turns off.}}

Controller



Installation ACAUTION

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 18.

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

Installation Kit

Included with the *SHADOW*^{RTB} 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 ½" bolts

(4) 5/16-18 nylon lock nuts

(8) 5/16" flat washers

(4) large diameter flat washers

(2) $^{1}\sqrt{4}$ -20 x 5/8" Phillips pan head machine screws

(4) ¹/₄" flat washers

(2) ½-20 nylon lock nuts

(1) ½" 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, RTV™ recommended

Installation Notes

ACAUTION 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.

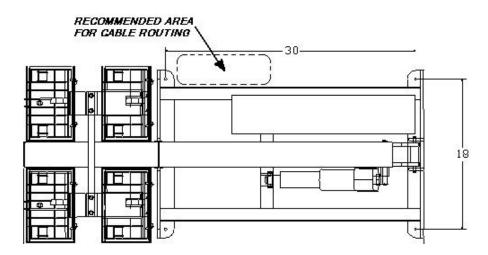
When routing the connecting electrical wires take care to avoid sharp bends, hot components or other hazards to the wire.

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 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 included in 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.

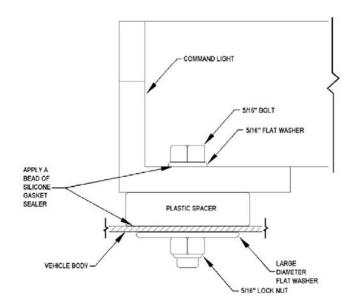
Mounting

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.

ACAUTION 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.

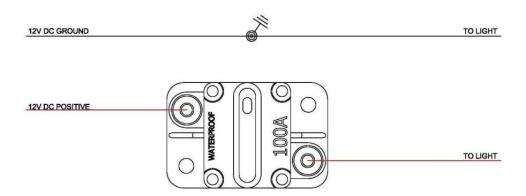
Run the control wire from the control box holster to the **SHADOW**^{RTB}.

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 pre-wired 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.

Warning Device Installation (Cont.)

Tools Required:

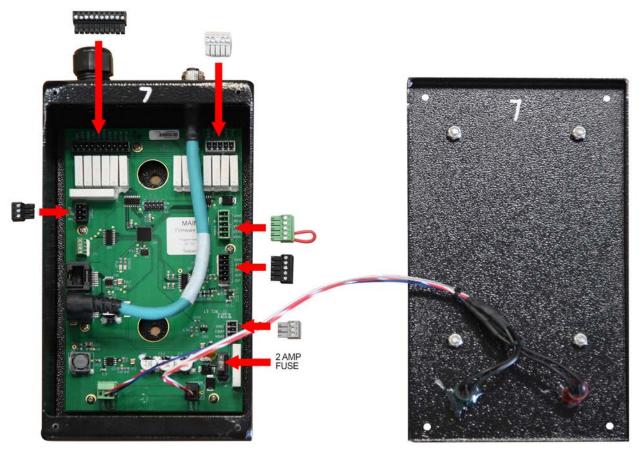
- 3/32" Flathead Screwdriver
- Wire Strippers
- Small Torch or Lighter



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

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 SHADOWRTB 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 SHADOWRTB 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 $SHADOW^{RTB}$.

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.



SL SERIES: MANUAL LIGHT TOWER LOWERING

> www.commandlight.com /technical-videos.com



Troubleshooting

Problem	Possible Cause	Solution
Unit will not extend	No power to the unit	Check power input connections.
		Ensure 100 Amp input breaker
		has not been tripped.
	Incorrect installation	Refer to installation instructions.
Upper stage will not rotate	Lower stage not raised above 16"	Raise lower stage higher.
	Rotation motor failure.	Consult with factory.
Lights will not illuminate.	Lower stage not raised above 16"	Raise lower stage higher.
	Circuit breaker tripped.	Check circuit breaker at power
		supply.
	No power to the unit.	Check power supply operation/
		output.
Unit will not nest	Lamp tree not centered	Raise lower stage higher than
		16". Center lamp tree (green light
		illuminated)
	Unit being operated on a slope	Level Truck. If problem persists,
	>15°.	rotate lamp tree to center, using
		a pike pole, hold unit centered
		while lowering to nest position.
Autopark button must be held in	Faulty or stuck nest switch.	Check nest switch ground and
to park unit		operation. Rubber boot may have
		shrunk and is holding in switch.
	Water in electronics.	Remove moisture from ground
		points and electronics. Do not
		use a pressure washer to clean
		unit.
No lights or rotation	Check safety limit sensor, bad,	Contact factory for replacement
	etc.	part.
Autopark is off Center	Center switch out of	Contact factory for replacement
	alignment.	part.



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

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 ON	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 VDC2/2 SO cord25' providedControl wiring22/20 PVC Jacketed25' 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:

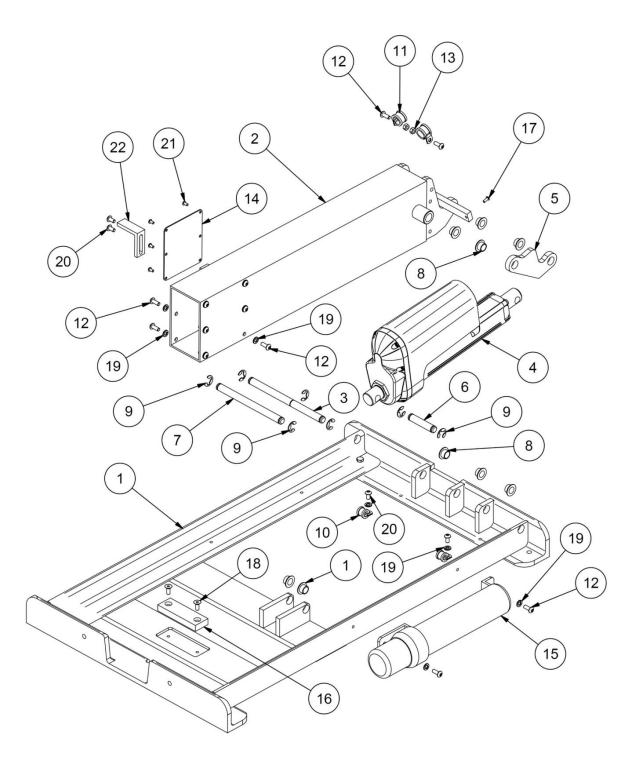
Angle of vehicle 15° maximum incline

Specifications -54 [1367] 30 [762] - 18 [457] --0 0 SL442-FS 34 [856] 8 [195]-SHADOW RTB DIMENSIONS MODEL SL442-FS 110° 000

Parts List - (Base)

		PARTS L	IST
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	178-01100	FRAME, WELDMENT, SHADOW RTB
2	1	178-02300	ARM, MAIN LIFT, WELDMENT, SHADOW RTB
3	1	178-01502	PIN,LOWER,PIVOT,SHADOW RTB
4	1	069-15411	ACTUATOR,LINEAR,150MM,12VDC,LA36
5	1	178-01008	ARM,TRAILING,LIFT,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,IGLIDE,JFI-0809-06
9	7	069-15336	E-Ring, 5133-50, .044T, SS
10	2	065-13084	CLAMP,LOOM,#4,SS
11	2	065-12365	CLAMP,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, LIFT ARM, SHADOW RTB
15	1	065-15001	CANISTER, DOCUMENT, BLACK
16	1	178-04053	PAD, NEST, SHADOW RTB
17	1	069-01133	SCREW,BH,HEX,M4x0.7x10,SS
18	2	069-01114	SCREW,FHSH,M6x1x16
19	16	034-11028	WASHER,LOCK,SPRING,REGULAR, 1/4", SS
20	4	069-01103	SCREW,BH,HEX,6x1x12,SS
21	6	034-13092	SCREW,BH,HEX,M4x0.7x8,SS
22	1	178-02099	BRACKET, NEST SWITCH, SHADOW RTB

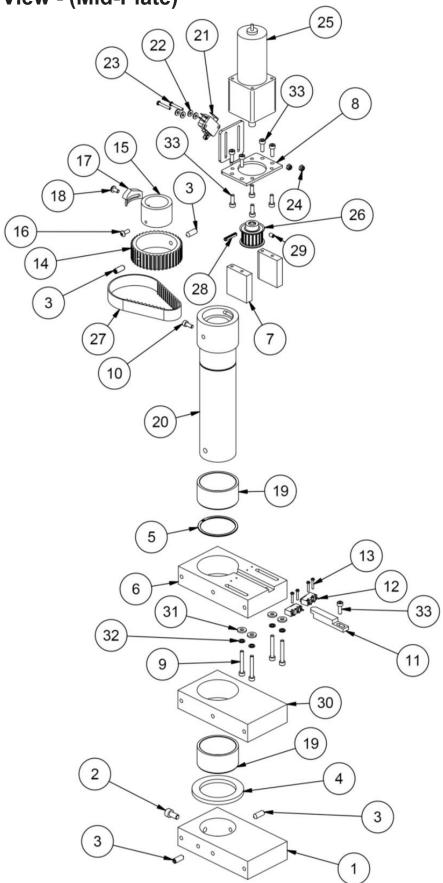
Exploded View - (Base)



Parts List - (Mid-Plate)

		PARTS LIS	ST
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 16mm,SS
4	1	178-03010	BEARING, THRUST, ROTATION, SHADOW RTB
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 RTB
8	1	178-04084	MOUNT, MOTOR, ROTATION, SHADOW RTB
9	4	034-13063	SCREW,SHCS,SHCS M4x0.7x30
10	1	034-13066	SCREW,SHCS,SHCS M4x0.7x10
11	1	178-03005	STOP, ROTATION LIMIT, SHADOW RTB
12	2	065-12383	SWITCH,LIMIT,CHERRY,SPDT,5A,125V,SRTBL
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,M4x0.7x10,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,SRTBL
	7.20	1	

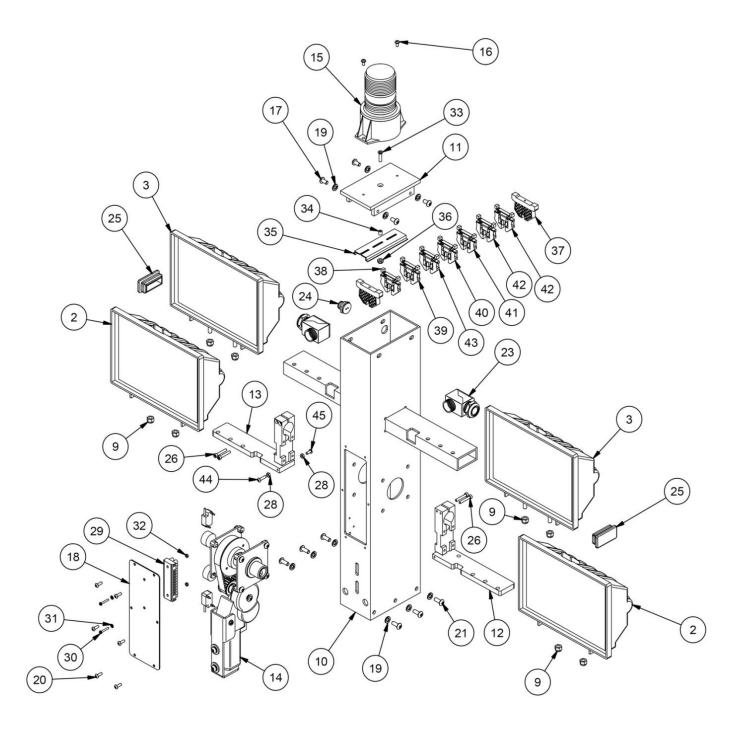
Exploded View - (Mid-Plate)



Parts List - (Lamp Tree)

2 178-445FIXT LAMP, SUBASSEMBLY, BACKLIGHT, STD, SHADOW RTB 3 2 178-445FIXT LAMP, SUBASSEMBLY, BACKLIGHT, STD, SHADOW RTB 9 8 034-11033 NUT, MYLOCK, 1/4-20 UNC, SS 10 1 178-04000 TREE, BARE, WELDMENT, SHADOW RTB 11 1 178-04010 MOUNT, STROBE, SHADOW RTB, WELDMENT 12 1 178-04017 MOUNT, EET, BACKLIGHT, SHADOW RTB 13 1 178-04018 MOUNT, RTG, SHADOW RTB, WELDMENT 14 1 RTB_BL, Assembly 15 1 065-12867 STROBE, PRE-WIRED, INDICATE COLOR 16 2 034-13092 SCREW, PPH, M4 X 8 17 4 069-01103 SCREW, PPH, M4 X 8 18 1 178-04009 COVER, ACCESS, LAMP TREE, SHADOW RTB 19 10 034-11028 WASHER, LOCK, SPRING, REGULAR, 1/4", SS 20 6 6 069-01140 SCREW, BH, HEX, 6x1x1, 2, SS 21 6 069-01140 SCREW, BH, HEX, 6x1x1, 6, SS 23 2 065-12851 STRAIN RELIEF, DOMED 99, SCR. 2, 38-35, 1/2 NPT, BLACK 24 1 069-15392 CONNALL, MIRON, 2 PIN, PANEL 25 2 0 66 1-2851 STRAIN RELIEF, DOMED 99, SCR. 2, 38-35, 1/2 NPT, BLACK 24 1 069-15392 CONNALL, MIRON, 2 PIN, PANEL 25 2 0 66-12373 PLUG, FINISHING, 1, 12, 2, SRT-BL, ROM CL 26 4 034-13062 SCREW, SHLEY, SHAO, 2 PIN, PANEL 27 29 1 065-12827 STRIP, BARRIER, 12 POLE 28 2 069-01125 Nut, MS, MAO, 7 2 034-13288 SCREW, PH, 24-4 UNICK, 3 PIN, PANEL 31 2 034-1283 WASHER, LOCK, 38-8S, INTERNAL, #4 32 2 034-10902 NUT, MS, HEX, 24-4 UNICK, 3 PIN, PANEL 35 1 069-01000 RAIL, NIN, SHEW, PH, P4-4 UNICK, 9 S 36 1 034-10905 NUT, MS, HEX, 24-4 UNICK, 9 S 37 2 065-10075 BRACKET, END, DIN, DN-T10-BLUE 36 1 034-13081 NUT, MS, HEX, 24-4 UNICK, 5 S 37 2 065-10075 BRACKET, END, DN, DN-T10-BLUE 36 1 069-01000 RAIL, DIN, DN-T10-BLUE 37 2 065-10075 BRACKET, END, DN, DN-T10-BLUE 38 1 065-10068 BLOCK, TERMINAL, DIN, DN-T10-BLUE 39 1 1 065-10068 BLOCK, TERMINAL, DIN, DN-T10-BLUE 40 1 069-01131 SCREW, BH, HEX, MAO, 77-110, SS	ITEM	QTY	PART NUMBER	DESCRIPTION
9 8 034-11033 NUT,NYLOCK, 1/4-20 UNC,SS 10 1 178-04000 TREE,BARE,WELDMENT,SHADOW RTB 11 1 178-04001 MOUNT, STROBE, SHADOW RTB, WELDMENT 12 1 178-04017 MOUNT, LEFT,BACKLIGHT, SHADOW RTB 13 1 178-04018 MOUNT, RIGHT, BACKLIGHT, SHADOW RTB 14 1 1 RTB, BL, Assembly 15 1 065-12867 STROBE, PRE-WIRED, INDICATE COLOR 16 2 034-13092 SCREW,PH,MEX, 82 17 4 069-01103 SCREW,BH,HEX,6K1X12,SS 18 1 178-04009 COVER,ACCESS,LAMP TREE,SHADOW RTB 19 10 034-11028 WASHER,LOCK,SPRING,REGULAR, 1/4", SS 20 6 069-01102 SCREW,BH,HEX,6K1X16,SS 21 6 069-01140 SCREW,BH,HEX,6K1X16,SS 23 2 065-12851 STRAIN RELIEF,DOME 90,SCR. 3955,1/2 NPT,BLACK 24 1 1 069-15392 CONNALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINISHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHCS,SHCS MAXO,7x2S 28 2 069-1125 Nut, MS, MAXO,7 29 1 065-12827 STRIP, BARRIER, 12 POLE 30 2 034-13288 SCREW,PHP,4-00 UNCO,75 31 2 034-14283 WASHER,LOCK,SSS, SINIERNAL,#4 31 2 034-14283 WASHER,LOCK,SSS, SINIERNAL,#4 32 2 034-10902 NUT, MS, HEX,2,4-40UNC,SS 33 1 034-10975 SCREW,PHP,4-00 UNCO,75 34 1 078-03013 SPACER,DIN RAIL, STROBAL, STROBAL, STROBAL, STROBAL, SSS, NITERNAL,#4 31 078-03013 SPACER,DIN RAIL, STROBAL, SSS SINIERNAL,#4 32 1 034-10902 NUT, MS, HEX,2,4-40UNC,SS 33 1 034-10902 NUT, MS, HEX,2,4-40UNC,SS 34 1 078-03013 SPACER,DIN RAIL, STROBAL MOUNT 35 1 069-01000 RAIL, DIN, SCOTTED, 7.5MM X 35MM 4 in. 36 1 034-13081 NUT, NYLOCK, THINN, DN, DN-T10-BLACK 39 1 065-10069 BLOCK, TERMINAL, DIN, DN-T10-BLACK 40 1 1 065-10074 BLOCK, TERMINAL, DIN, DN-T10-BLUE/WHITE 41 1 065-10074 BLOCK, TERMINAL, DIN, DN-T10-BLUE/WHITE 41 1 065-10079 BLOCK, TERMINAL, DIN, DN-T10-BLUE/WHITE 41 1 065-10079 BLOCK, TERMINAL, DIN, DN-T10-BLUE/WHITE	2	2	178-445FIXT	LAMP,SUBASSEMBLY,BACKLIGHT,STD,SHADOW RTB
10 1 178-04000 TREE,BARE,WELDMENT,SHADOW RTB 11 1 178-05100 MOUNT, STROBE, SHADOW RTB, WELDMENT 12 1 178-04017 MOUNT, LEFT,BACKLIGHT,SHADOW RTB 13 1 178-04018 MOUNT,LEFT,BACKLIGHT,SHADOW RTB 14 1 RTB_BL_Assembly 15 1 065-12867 STROBE, PRE-WIRED, INDICATE COLOR 16 2 034-13092 SCREW,PPH,MA X 8 17 4 069-01103 SCREW,BPH,HEX,6X112,SS 17 4 069-01103 SCREW,BH,HEX,6X112,SS 18 1 178-04009 COVER,ACCES,CLAMP TREE,SHADOW RTB 19 10 034-11028 WASHER,LOCK,SPRING,REGULAR, 1/4", SS 20 6 069-01102 SCREW,BH,HEX,4x0,7x12,SS 21 6 069-01100 SCREW,BH,HEX,6X1715,SS 23 2 065-12851 STRAIN RELP,DOMED 90,SCR.3955,1/2 NPT,BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINISHING,IX,SCR,TB-BL,ROM CL 26 4 034-13062 SCREW,BH,MEX,6X,DR,SPR-BL,ROM CL 26 4 034-13062 SCREW,BH,MEX,6X,DR,SPR-BL,ROM CL 26 4 034-13062 SCREW,BH,MEX,6X,DR,SPR-BL,ROM CL 27 2 056-12827 STRIP, BARRIER, 12 POLE 28 2 059-1125 Nut, MS, M4x0.7 29 1 065-12827 STRIP, BARRIER, 12 POLE 30 2 034-13288 SCREW,PHP,A-40 UNCX0.75 31 2 034-14283 WASHER,LOCK, 18-8SS,INTERNAL,#4 32 2 034-10902 NUT,MS,HEZ,4-40UNC,SS 33 1 034-10975 SCREW,FHP,A-CX, 18-8SS,INTERNAL,#4 34 1 078-03013 SPACER, DIN RAIL, STROBE MOUNT 35 1 069-01000 RAIL, DIN, SLOTTED, 7.5MM X 35MM 4 in. 36 1 034-13081 NUT,NYLOCK,THIN, 10-24 UNCX SS 37 2 065-10075 BRACKET, END, DIN, DN-T10-BLCK 40 1 065-10074 BLOCK, TERNINAL, DIN, DN-T10-WHITE 41 1 065-10074 BLOCK, TERNINAL, DIN, DN-T10-WHITE 41 1 065-10078 BLOCK, TERNINAL, DIN, DN-T10-WHITE 41 1 069-01134 SCREW,BH,HEX,MAO,716,SS	3	2	178-445FIXT	LAMP,SUBASSEMBLY,FIXED,STD,SHADOW RTB
11 1 178-05100 MOUNT, STROBE, SHADOW RTB, WELDMENT 12 1 178-04017 MOUNT, LEFT, BACKLIGHT, SHADOW RTB 13 1 178-04018 MOUNT, RIGHT, BACKLIGHT, SHADOW RTB 14 1 1 RTB, BL_Assembly 15 1 065-12867 STROBE, PRE-WIRED, INDICATE COLOR 16 2 034-13092 SCREW, PH, MX X 8 17 4 069-01103 SCREW, PH, HEX, 6x1x12, SS 18 1 178-04009 COVER, ACCESS, LAMP TREE, SHADOW RTB 19 10 034-11028 WASHER, LOCK, SPINIG, REGULAR, 1/4", SS 20 6 069-01102 SCREW, BH, HEX, 6x1x16, SS 21 6 069-01140 SCREW, BH, HEX, 6x1x16, SS 21 6 069-0140 SCREW, BH, HEX, 6x1x16, SS 23 2 065-12851 STRAIN RELIEF, DOMED 90, SCR. 39-35, 1/2 NPT, BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG, FINISHING, 1x2, SRT-BL, ROM CL 26 4 034-13062 SCREW, SHC, SSCRS M4x0. 7x25 28 2 065-12373 PLUG, FINISHING, 1x2, SRT-BL, ROM CL 26 4 034-13062 SCREW, SHC, SSCRS M4x0. 7x25 29 1 065-12827 STRIP, BARRIER, 12 POLE 30 2 034-13288 SCREW, PH, P4-40 UNCX0. 75 31 2 034-14283 WASHER, LOCK, 18-85S, INTERNAL, #4 31 078-03013 SPACER, DIN RALL, STROBE MOUNT 35 1 078-03013 SPACER, DIN RALL, STROBE MOUNT 35 1 069-01000 RAIL, DIN, SLOTTED, 7.5MM X 35MM 4 in. 36 1 034-13061 NUT, MYLOCK, THIN, 10-24 UNCX SSCREW, SHC, SHC, SHC, SHC, SHC, SHC, SHC, SHC	9	8	034-11033	NUT,NYLOCK, 1/4-20 UNC,SS
12 1 178-04017 MOUNT, LEFT, BACKLIGHT, SHADOW RTB 13 1 178-04018 MOUNT, RIGHT, BACKLIGHT, SHADOW RTB 14 1 1 RTB_BL_Assembly 15 1 065-12867 STROBE, PRE-WIRED, INDICATE COLOR 16 2 034-13092 SCREW, PPH, M4 × 8 17 4 069-01103 SCREW, BH, HEX, 6x1x12, SS 18 1 178-04009 COVER, ACCESS, LAMP TREE, SHADOW RTB 19 10 034-11028 WASHER, LOCK, SPRING, REGULAR, 1/4", SS 20 6 069-01102 SCREW, BH, HEX, 6x1x16, SS 21 6 069-01102 SCREW, BH, HEX, 6x1x16, SS 23 2 065-12851 STRAIN RELIEF, DOMED 90, SCR. 3955, 1/2 NPT, BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG, FINISHING, 1x2, SRT-BL, ROM CL 26 4 034-13062 SCREW, SHCS, SHCS, M4x0, 7x2 27 29 1 065-12827 STRIP, BARRIER, 12 POLE 28 2 069-01125 Nut, MS, M4x0, 7 29 1 065-12827 STRIP, BARRIER, 12 POLE 30 2 034-13288 SCREW, PH, PH, A-40 UNCX. 075 31 2 034-14283 WASHER, LOCK, 18-8SS, INTERNAL, #4 32 2 034-14283 WASHER, LOCK, 18-8SS, INTERNAL, #4 31 034-13091 NUT, MS, HEXZ, 4-40 UNCX. 3/4 in, SS 33 1 034-10902 NUT, MS, HEXZ, 4-40 UNCX. 3/4 in, SS 34 1 078-03013 SPACER, DIN RAIL, STROBE MOUNT 35 1 069-01000 RAIL, DIN, SLOTTED, 7.5MM X 35MM 4 in. 36 1 034-13081 NUT, NOT, NOT, NOT, 10-24 UNCX, SS 37 2 065-10075 BRACKET, END, DIN, DN-T10-BLOCK 40 1 065-10074 BLOCK, TERMINAL, DIN, DN-T10-BLOCK 41 1 065-10074 BLOCK, TERMINAL, DIN, DN-T10-WHITE 41 1 065-10070 BLOCK, TERMINAL, DIN, DN-T10-WHITE 41 1 069-01134 SCREW, BH, EX, M4x0, 7.716, SS	10	1	178-04000	TREE,BARE,WELDMENT,SHADOW RTB
13	11	1	178-05100	MOUNT, STROBE, SHADOW RTB, WELDMENT
14 1 RTB_BL_Assembly 15 1 065-12867 STROBE, PRE-WIRED, INDICATE COLOR 16 2 034-13092 SCREW,PPH,M4 X 8 17 4 069-01103 SCREW,BH,HEX,6x1x12,SS 18 1 178-04009 COVER,ACCESS,LAMP TREE,SHADOW RTB 19 10 034-11028 WASHER,LOCK,SPRING,REGULAR, 1/4", SS 20 6 069-01102 SCREW,BH,HEX,6x1x16,SS 21 6 069-01104 SCREW,BH,HEX,6x1x16,SS 21 6 069-01104 SCREW,BH,HEX,6x1x16,SS 23 2 065-12851 STRAIN RELIEF,DOMED 90,SCR. 3955,1/2 NPT,BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINISHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHC,S,SHCS M4x0.7x25 28 2 069-01125 Nut, MS, M4x0.7 29 1 065-12827 STRIP, BARRIER, 12 POLE 30 2 034-13288 SCREW,PHP,4-40 UNCX.0.75 31 2 034-14283 WASHER,LOCK, 18-8SS,INTERNAL,#4 32 2 034-10902 NUT,MS,HEX,24-40UNC,SS 33 1 034-10975 SCREW,PHPN,10-24 UNC X 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE MOUNT 35 1 069-01000 RAIL, DIN, SLOTTED, 7.5MM X 35MM 4 in. 36 1 034-13081 NUT,NY,LOCK,THIN, 10-24 UNC, SS 37 2 065-10075 BRACKET,END,DIN,DN-T10-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-BLUE 41 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-RELEF 44 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-GREEN 44 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-GREEN	12	1	178-04017	MOUNT,LEFT,BACKLIGHT,SHADOW RTB
15 1 065-12867 STROBE, PRE-WIRED, INDICATE COLOR 16 2 034-13092 SCREW,PPH,M4 X 8 17 4 069-01103 SCREW,BH,HEX,6x1x12,SS 18 1 178-04009 COVER,ACCESS,LAMP TREE,SHADOW RTB 19 10 034-11028 WASHER,LOCK,SPRING,REGULAR, 1/4", SS 20 6 069-01102 SCREW,BH,HEX,4x0.7x12,SS 21 6 069-01140 SCREW,BH,HEX,6x1x16,SS 23 2 065-12851 STRAIN RELIEF,DOMED 90,SCR.3955,1/2 NPT,BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINISHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHC,SS,SHCS M4x0.7x25 28 2 069-01125 Nut, MS, M4x0.7 29 1 065-12827 STRIP, BARRIER, 12 POLE 30 2 034-13288 SCREW,PHP,A-40 UNCX0.75 31 2 034-13288 SCREW,PHP,A-40 UNCX0.75 31 2 034-13288 SCREW,PHP,A-40 UNCX0.75 33 3 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-T10-BLUE 40 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-BLUE	13	1	178-04018	MOUNT,RIGHT,BACKLIGHT,SHADOW RTB
16	14	1	RTB_BL_Assembly	
17	15	1	065-12867	STROBE, PRE-WIRED, INDICATE COLOR
18 1 178-04009 COVER, ACCESS, LAMP TREE, SHADOW RTB 19 10 034-11028 WASHER, LOCK, SPRING, REGULAR, 1/4", SS 20 6 069-01102 SCREW, BH, HEX, 4x0.7x12, SS 21 6 069-01140 SCREW, BH, HEX, 4x0.7x12, SS 23 2 065-12851 STRAIN RELIEF, DOMED 90, SCR. 3955, 1/2 NPT, BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG, FINISHING, 1x2, SRT-BL, ROM CL 26 4 034-13062 SCREW, SHC, SHCS M4x0.7x25 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, #4 32 2 034-10902 NUT, MS, HEXZ, 4-40UNC, SS 33 1 034-10975 SCREW, HPMS, 10-24 UNC x 3/4 in, SS 34 1 078-03013 SPACER, DIN RAIL, STROBE 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-T10-BLACK 39 1 065-10069 BLOCK, TERMINAL, DIN, DN-T10-BLACK 40 1 065-10074 BLOCK, TERMINAL, DIN, DN-T10-BLUE, WHITE 41 1 065-10076 BLOCK, TERMINAL, DIN, DN-T10-BLUE, WHITE 41 1 065-10076 BLOCK, TERMINAL, DIN, DN-T10-BLUE, WHITE 43 1 065-10076 BLOCK, TERMINAL, DIN, DN-T10-BLUE, WHITE 44 1 065-10076 BLOCK, TERMINAL, DIN, DN-T10-BLUE, WHITE 44 1 065-10076 BLOCK, TERMINAL, DIN, DN-T10-BLUE, WHITE 44 1 065-10076 BLOCK, TERMINAL, DIN, DN-T10-BLUE, WHITE	16	2	034-13092	SCREW,PPH,M4 X 8
19 10 034-11028 WASHER,LOCK,SPRING,REGULAR, 1/4", SS 20 6 069-01102 SCREW,BH,HEX,4x0.7x12,SS 21 6 069-01140 SCREW,BH,HEX,6x1x16,SS 23 2 065-12851 STRAIN RELIEF,DOMED 90,SCR .3955,1/2 NPT,BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINISHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHCS,SHCS M4x0.7x25 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 2 034-13288 SCREW,PHP,4-40 UNCX0.75 31 2 034-14283 WASHER,LOCK,18-8SS,INTERNAL,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-T10-BLUE 40 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 41 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,AMAO.7x16,SS	17	4	069-01103	SCREW,BH,HEX,6x1x12,SS
20 6 069-01102 SCREW,BH,HEX,4x0.7x12,SS 21 6 069-01140 SCREW,BH,HEX,6x1x16,SS 23 2 065-12851 STRAIN RELIEF,DOMED 90,SCR.3955,1/2 NPT,BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINISHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHCS,SHCS M4x0.7x25 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,#4 32 2 034-14283 WASHER,LOCK,18-8SS,INTERNAL,#4 32 2 034-10902 NUT,MS,HEXZ,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-GREEN	18	1	178-04009	COVER,ACCESS,LAMP TREE,SHADOW RTB
21 6 069-0140 SCREW,BH,HEX,6x1x16,SS 23 2 065-12851 STRAIN RELIEF,DOMED 90,SCR .3955,1/2 NPT,BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINTSHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHCS,SHCS M4x0.7x25 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,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE MOUNT 35 1 069-01000 RAIL, DIN, SLOTTED, 7.5MM X 35MM 4 in. 36 1 034-13081 NUT,MYLOCK,THIN, 10-24 UNC,SS 37 2 065-10075 BRACKET,END,DIN,DN-EB35 38 1 065-10069 BLOCK,TERMINAL,DIN,DN-T10-BLOCK 39 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-BLOCK 40 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-BLUE 41 1 065-10076 BLOCK,TERMINAL,DIN,DN-T10-BLUE 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	19	10	034-11028	WASHER,LOCK,SPRING,REGULAR, 1/4", SS
23 2 065-12851 STRAIN RELIEF,DOMED 90,SCR .3955,1/2 NPT,BLACK 24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINISHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHCS,SHCS M4x0.7x25 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,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLUE 40 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-GREEN 44 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-GREEN	20	6	069-01102	SCREW,BH,HEX,4x0.7x12,SS
24 1 069-15392 CONXALL, MINICON, 2 PIN, PANEL 25 2 065-12373 PLUG,FINISHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHCS,SHCS M4x0.7x25 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,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10902 NUT,MS,HEX2,4-4UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BL	21	6	069-01140	SCREW,BH,HEX,6x1x16,SS
25 2 065-12373 PLUG,FINISHING,1x2,SRT-BL,ROM CL 26 4 034-13062 SCREW,SHCS,SHCS M4x0.7x25 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,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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 1 065-10075 BLOCK,TERMINAL,DIN,DN-T10-BLUCK 39 1 065-10069 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10070 <td< td=""><td>23</td><td>2</td><td>065-12851</td><td>STRAIN RELIEF, DOMED 90, SCR .3955, 1/2 NPT, BLACK</td></td<>	23	2	065-12851	STRAIN RELIEF, DOMED 90, SCR .3955, 1/2 NPT, BLACK
26 4 034-13062 SCREW,SHCS,SHCS M4x0.7x25 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,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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 1 065-10075 BRACKET,END,DIN,DN-EB35 38 1 065-10069 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-WHITE 42 2 065-10068 BLOCK,TE	24	1	069-15392	CONXALL, MINICON, 2 PIN, PANEL
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,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-WHITE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	25	2	065-12373	PLUG,FINISHING,1x2,SRT-BL,ROM CL
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,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	26	4	034-13062	SCREW,SHCS,SHCS M4x0.7x25
30 2 034-13288 SCREW,PHP,4-40 UNCx0.75 31 2 034-14283 WASHER,LOCK,18-8SS,INTERNAL,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	28	2	069-01125	Nut, MS, M4x0.7
31 2 034-14283 WASHER,LOCK,18-8SS,INTERNAL,#4 32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-GREEN 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	29	1	065-12827	STRIP, BARRIER, 12 POLE
32 2 034-10902 NUT,MS,HEX2,4-40UNC,SS 33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	30	2	034-13288	SCREW,PHP,4-40 UNCx0.75
33 1 034-10975 SCREW,FHPMS,10-24 UNC x 3/4 in,SS 34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-GREEN 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	31	2	034-14283	WASHER,LOCK,18-8SS,INTERNAL,#4
34 1 078-03013 SPACER,DIN RAIL,STROBE 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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	32	2	034-10902	NUT,MS,HEX2,4-40UNC,SS
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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	33	1	034-10975	SCREW,FHPMS,10-24 UNC x 3/4 in,SS
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-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	34	1	078-03013	SPACER,DIN RAIL,STROBE MOUNT
37 2 065-10075 BRACKET,END,DIN,DN-EB35 38 1 065-10069 BLOCK,TERMINAL,DIN,DN-T10-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	35	1	069-01000	RAIL, DIN, SLOTTED, 7.5MM X 35MM 4 in.
38 1 065-10069 BLOCK,TERMINAL,DIN,DN-T10-BLACK 39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	36	1	034-13081	NUT,NYLOCK,THIN, 10-24 UNC,SS
39 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE 40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	37	2	065-10075	BRACKET,END,DIN,DN-EB35
40 1 065-10073 BLOCK,TERMINAL,DIN,DN-T10-WHITE 41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	38	1	065-10069	BLOCK,TERMINAL,DIN,DN-T10-BLACK
41 1 065-10074 BLOCK,TERMINAL,DIN,DN-T10-YELLOW 42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	39	1	065-10068	BLOCK,TERMINAL,DIN,DN-T10-BLUE
42 2 065-10070 BLOCK,TERMINAL,DIN,DN-T10-GREEN 43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	40	1	065-10073	BLOCK,TERMINAL,DIN,DN-T10-WHITE
43 1 065-10068 BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE 44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	41	1	065-10074	BLOCK,TERMINAL,DIN,DN-T10-YELLOW
44 1 069-01134 SCREW,BH,HEX,M4x0.7x16,SS	42	2	065-10070	BLOCK,TERMINAL,DIN,DN-T10-GREEN
	43	1	065-10068	BLOCK,TERMINAL,DIN,DN-T10-BLUE/WHITE
45 1 069-01133 SCREW,BH,HEX,M4x0.7x10,SS	44	1	069-01134	SCREW,BH,HEX,M4x0.7x16,SS
	45	1	069-01133	SCREW,BH,HEX,M4x0.7x10,SS

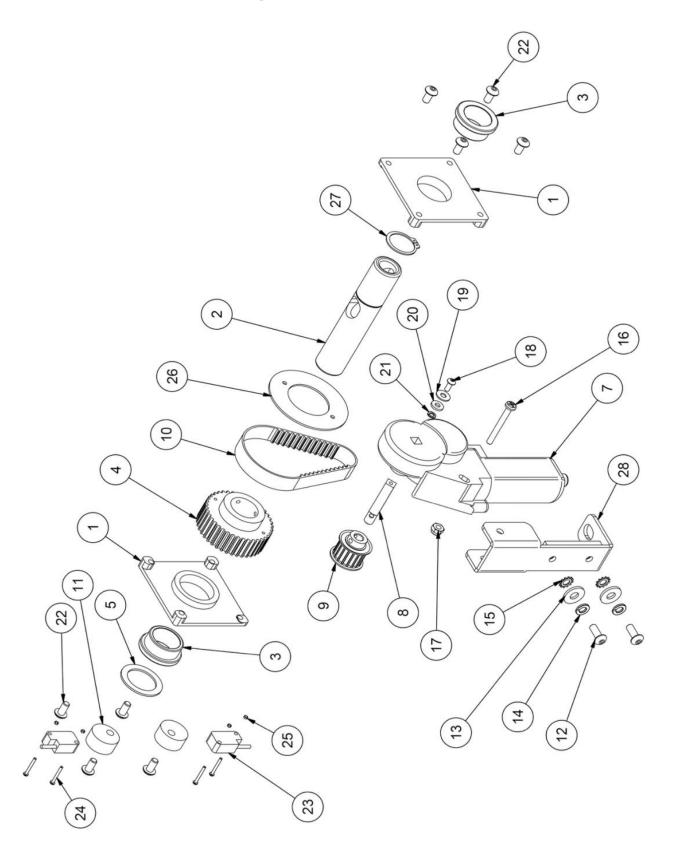
Exploded View - (Lamp Tree)



Parts List - (Backlight)

		PARTS LIST	
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	178-04002	SUPPORT,SHAFT,PIVOT,SHADOW RTB
2	1	178-04004	SHAFT, DRIVEN, SHADOW RTB
3	2	MFI-1620-10	BUSHING,FLANGED,IGLIDE,MFI-1620-10
4	1	178-04003	PULLEY,HTD,SRT BACK LIGHT,RAW
5	1	178-04016	SHIM,SPACER,BACKLIGHT,SHADOW RTB
7	1	065-12374	MOTOR,THRU HOLE,12 VDC
8	1	178-04010	SHAFT,STUB,DRIVE,SHADOW RTB
9	1	065-12378	PULLEY,HTD,P5mm,W15mm,G17,DF,B8mm
10	1	065-12376	BELT,HTD,P5mm,G55,SRT BL
11	2	178-04007	STOP,ROTATION,BACKLIGHT,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,LOCK,SPRING,REGULAR, 1/4", SS
15	2	STD HARDWARE-IEW-52	WASHER,LOCK,18-8SS,EXTERNAL,1/4in
16	1	STD HARDWARE-PHP-49	SCREW,PHP,MS,10-24UNCx1-3/4,SS
17	1	034-10981	NUT,NYLOCK, 10-24 UNC,SS
18	1	069-01133	SCREW,BH,HEX,M4x0.7x10,SS
19	1	034-11124	WASHER,FLAT,FENDER, 10 X 11/16, SS
20	1	034-10947	WASHER,FLAT,SAE, #8, SS
21	1	034-11175	WASHER,LOCK,SPRING,REGULAR, #8, SS
22	8	069-01103	SCREW,BH,HEX,6x1x12,SS
23	2	069-14160	SENSOR,PROXIMITY,4-WIRE
24	4	STD HARDWARE07	SCREW,PHP,2-56 UNCx0.75
25	4	STD_HARDWARE-N-001	NUT,MS,HEX1,2-56UNC,SS
26	1	178-04024	GUARD,BELT,BLIGHT,SHADOW RTB
27	1	065-12380	RING, RETAINING,1" STAINLESS STEEL
28	1	178-04027	MOUNT,MOTOR,DRIVE,AERIAL

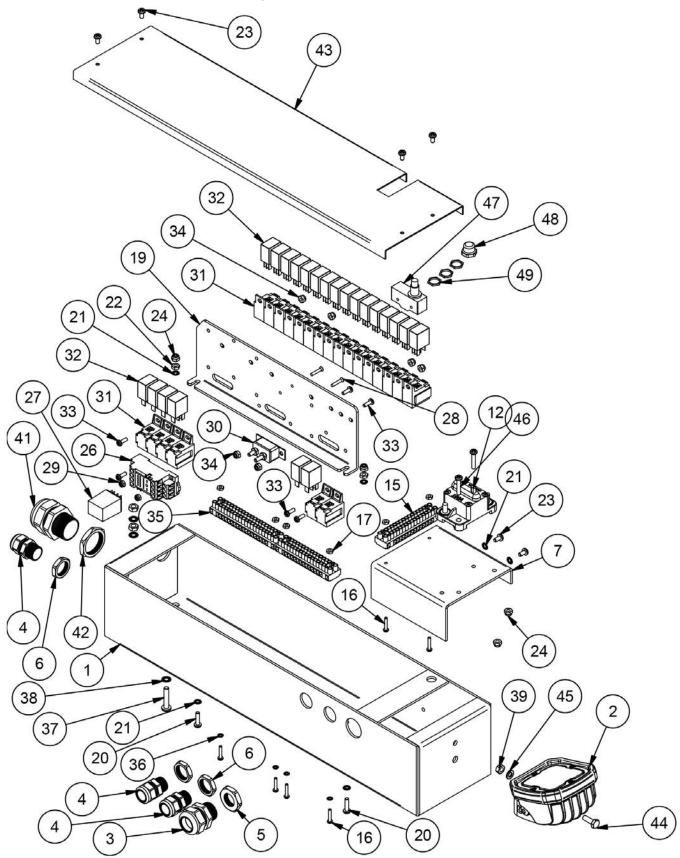
Exploded View - (Backlight)



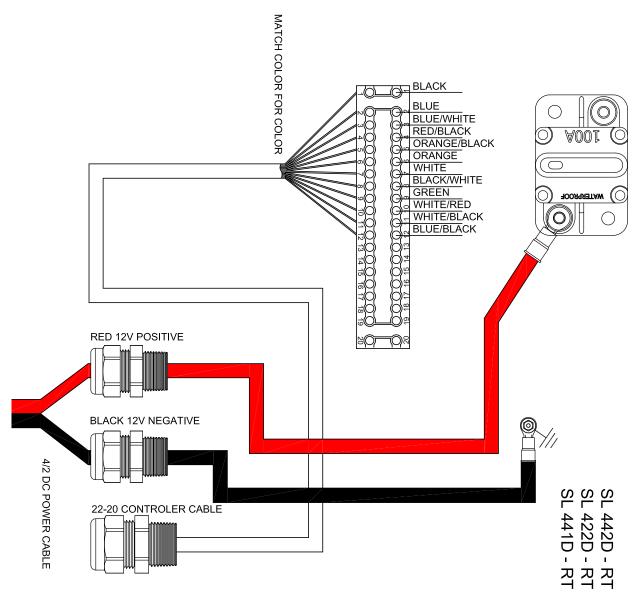
Parts List - DC Relay Box

W 1967-196	-		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 .2447,1/2 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,1/4-20x3/4,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
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

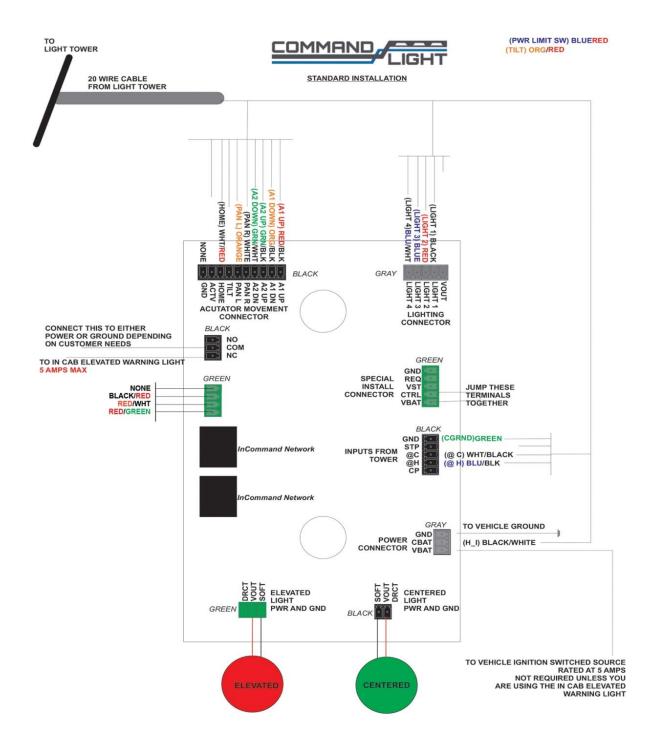


Wiring Schematics



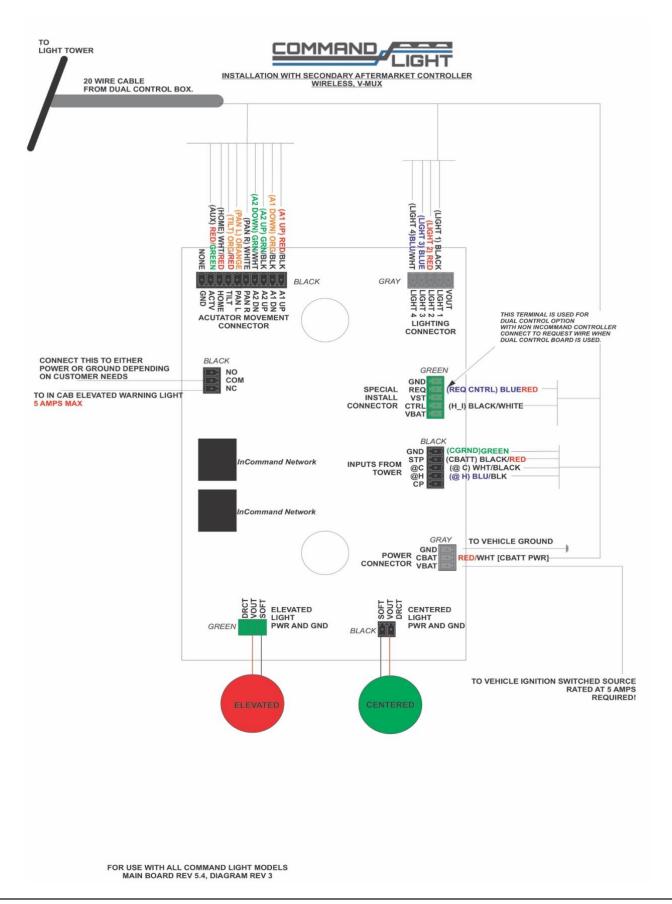
END USER HOOK-UP DIAGRAM

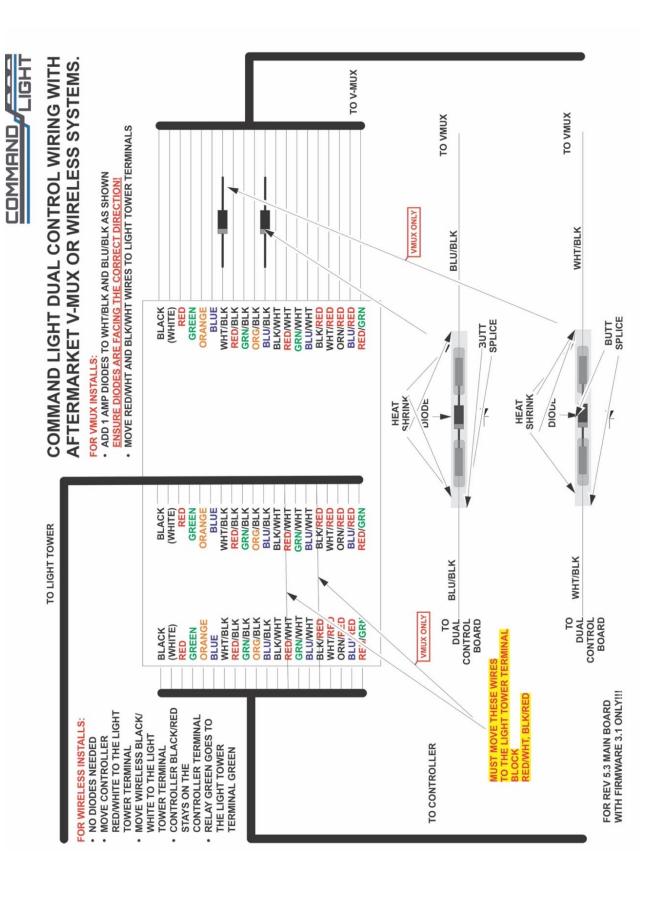
Holster Box

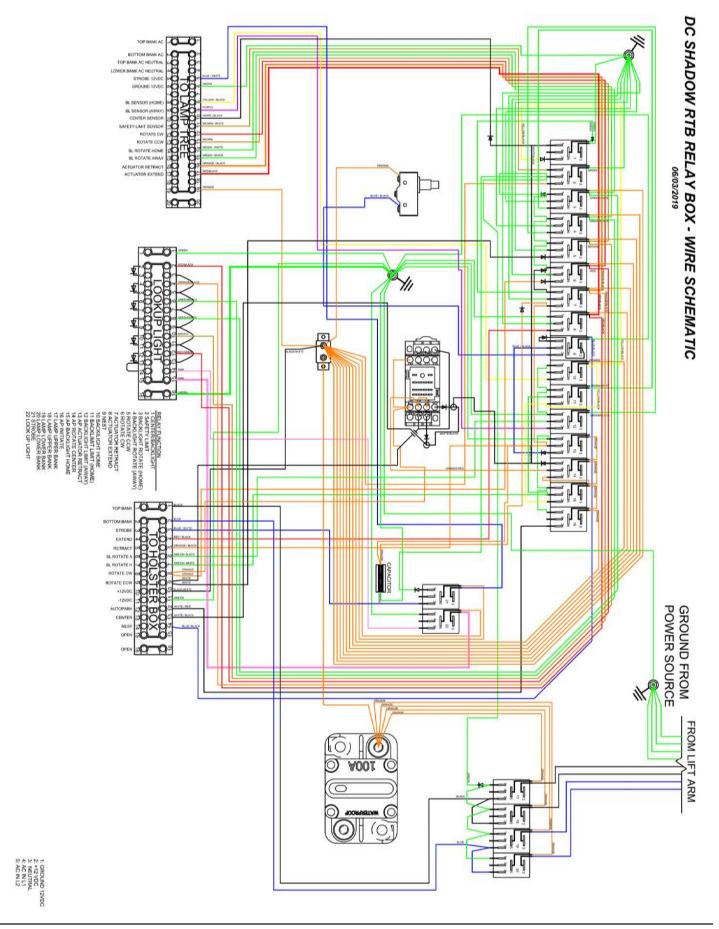


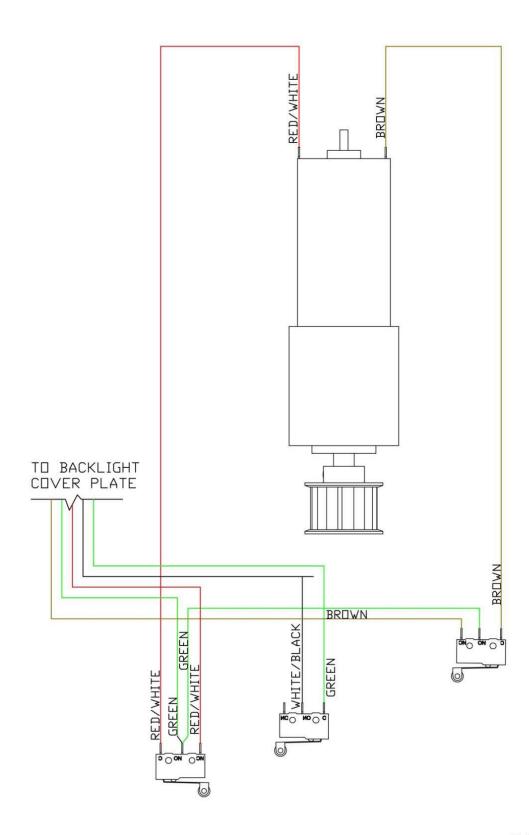
FOR USE WITH ALL SHADOW MODELS MAIN BOARD REV SHADOW 5.4, DIAGRAM REV 1

Holster Box







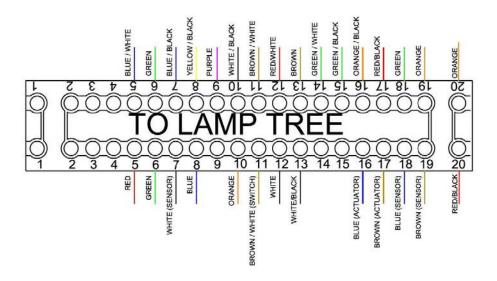


SHADOW RTB ROTATION ASSEMBLY

Arctic Option

The wiring between the relay box and the lamp tree is modified as follows to use arctic rated cable.

Arctic Flex Shadow^{RTB} (Strobe)



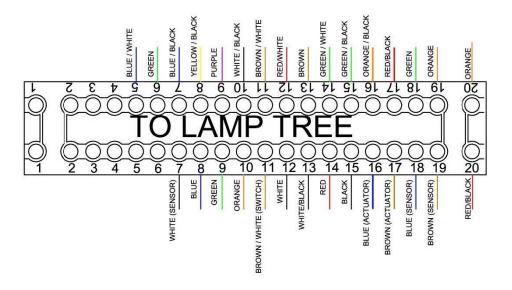
SL442D Strobe Arctic Wiring

Cable	Wire Used	Function	Pole#	Relay#	Ground
1	Black	Black (Left Upper Lamp Hot)		L1	
1	Red	Black (Right Upper Lamp Hot)		L1	
1	Blue	Blue (Left Lower Lamp Hot)		L2	
1	Orange	Blue (Right Lower Lamp Hot)		L2	
1	White	White (Left Upper Lamp Ground)			X
1	White/Black	White (Right Upper Lamp Ground)			X
1	Red/Black	Yellow (Left Lower Lamp Ground)			X
1	Green	Yellow (Right Lower Lamp Ground)			X
2	Red	Blue/White (Strobe)	5		
2	Blue	Yellow/Black (Backlight Home Signal)	8		
2	Orange	White/Black (Center Signal)	10		
2	White	Red/White (Rotate)	12		
2	White/Black	Brown (Rotate)	13		
2	Red/Black	Orange (Backlight & Center Power	20		
2	Green	Green (Ground)	6		

Arctic Option

The wiring between the relay box and the lamp tree is modified as follows to use arctic rated cable.

Arctic Flex Shadow^{RTB} (Backlight)



SL442D Backlighting Arctic Wiring

Cable	Wire Used	Function	Pole#	Relay#	Ground
1	Black	Black (Left Upper Lamp Hot)		L1	
1	Red	Black (Right Upper Lamp Hot)		L1	
1	Blue	Blue (Left Lower Lamp Hot)		L2	
1	Orange	Blue (Right Lower Lamp Hot)		L2	
1	White	White (Left Upper Lamp Ground)			X
1	White/Black	White (Right Upper Lamp Ground)			X
1	Red/Black	Yellow (Left Lower Lamp Ground)			X
1	Green	Yellow (Right Lower Lamp Ground)			X
2	Black	Green/Black (Backlight Motor +)	15		
2	Red	Green/White (Backlight Motor -)	14		
2	Blue	Yellow/Black (Backlight Home Signal)	8		
2	Orange	White/Black (Center Signal)	10		
2	White	Red/White (Rotate)	12		
2	White/Black	Brown (Rotate)	13		
2	Red/Black	Orange (Backlight & Center Power	20		
2	Green	Purple (Backlight Away Signal)	9		