



LED Windsock Tower Conversion Kit

for Internally Illuminated ADB or P. Wedge Windsock Towers

96A0478, Rev. A, 12/8/15

www.adb-air.com

DISCLAIMER / WARRANTY

A.0 Disclaimer / Standard Warranty



A.1 CE certification	The equipment listed as CE certified means that the product complies with the essential requirements concerning safety and hygiene. The directives that have been taken into consideration in the design are available on written request to ADB.
A.2 ETL certification	The equipment listed as ETL certified means that the product complies with the essential requirements concerning safety and FAA Airfield regulations. The directives that have been taken into consideration in the design are available on written request to ADB.
A.3 LED Product Guarantee	Where applicable, per FAA EB67(applicable edition), ADB L858(L) Airfield Guidance Signs are warranted against electrical defects in design or manufacture of the LED or LED specific circuitry for a period of 4 years. ADB LED light fixtures (with the exception of obstruction lighting) are warranted against mechanical and physical defects in design or manufacture for a period of 12 months from date of installation; and are warranted against electrical defects in design or manufacture of the LED or LED specific circuitry for a period of 4 years.
	NOTE: See your sales order contract for a complete warranty description. In some specific cases, deviations are (to be) accepted in the contract, which will supersede the standard warranty.
A.4 Standard Product Guarantee	Products of ADB manufacture are guaranteed against mechanical, electrical, and physical defects (excluding lamps) which may occur during proper and normal use for a period of one year from the date of installation or 2 years from date of shipment and are guaranteed to be merchantable and fit for the ordinary purposes for which such products are made. ADB L858 Airfield Guidance Signs are warranted against mechanical and physical defects in design or manufacture for a period of 2 years from date of installation per FAA AC 150/5345-44 (applicable edition).
	NOTE: See your sales order contract for a complete warranty description.
A.5 All Products	LED Products of ADB, manufactured and sold by ADB or its licensed representatives, meets the corresponding requirements of FAA, ICAO and IEC.
	ADB will correct by repair or replacement per the applicable guarantee above, at its option, equipment or parts which fail because of mechanical, electrical or physical defects, provided that the goods have been properly handled and stored prior to installation, properly installed and properly operated after installation, and provided further that Buyer gives ADB Airfield Solutions written notice of such defects after delivery of the goods to Buyer. Refer to the Safety section for more information on Material Handling Precautions and Storage precautions that must be followed.
	ADB reserves the right to examine goods upon which a claim is made. Said goods must be presented in the same condition as when the defect therein was discovered. ADB Airfield Solutions furthers reserves the right to require the return of such goods to establish any claim.
	ADB's obligation under this guarantee is limited to making repair or replacement within a reasonable time after receipt of such written notice and does not include any other costs such as the cost of removal of defective part, installation of repaired product, labor or consequential damages of any kind, the exclusive remedy being to require such new parts to be furnished.
	ADB's liability under no circumstances will exceed the contract price of goods claimed to be defective. Any returns under this guarantee are to be on a transportation charges prepaid basis. For products not manufactured by, but sold by ADB Airfield Solutions, warranty is limited to that extended by the original manufacturer.
	This is ADB's sole guarantee and warranty with respect to the goods; there are no express warranties or warranties of fitness for any particular purpose or any implied warranties of fitness for any particular purpose or any implied warranties other than those made expressly herein. All such warranties being expressly disclaimed.

A.6 Liability





WARNING

Use of the equipment in ways other than described in the catalogue leaflet and the manual may result in personal injury, death, or property and equipment damage. Use this equipment only as described in the manual.

ADB cannot be held responsible for injuries or damages resulting from non-standard, unintended uses of its equipment. The equipment is designed and intended only for the purpose described in the manual. Uses not described in the manual are considered unintended uses and may result in serious personal injury, death or property damage.

Unintended uses includes the following actions:

- Making changes to equipment that have not been recommended or described in this manual or using parts that are not genuine ADB replacement parts or accessories.
- Failing to make sure that auxiliary equipment complies with approval agency requirements, local codes, and all applicable safety standards if not in contradiction with the general rules.
- Using materials or auxiliary equipment that are inappropriate or incompatible with your ADB equipment.
- Allowing unskilled personnel to perform any task on or with the equipment.

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Airfield Solutions

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1.0 Safety	This section contains general safety instructions for installing and using ADB Airfield Solutions equipment. Some safety instructions may not apply to the equipment in this manual. Task- and equipment-specific warnings are included in other sections of this manual where appropriate.
1.1 HAZARD Icons used in the manual	For all HAZARD symbols in use, see the Safety section. All symbols must comply with ISO and ANSI standards.
	Carefully read and observe all safety instructions in this manual, which alert you to safety hazards and conditions that may result in personal injury, death or property and equipment damage and are accompanied by the symbol shown below.
<u>^</u>	WARNING
<u>_!</u> _	Failure to observe a warning may result in personal injury, death or equipment damage.
A	DANGER - RISK OF ELECTRICAL SHOCK OR ARC FLASH
<u>/</u>	• Disconnect equipment from line voltage. Failure to observe this warning may result in personal injury, death, or equipment damage. ARC Flash may cause blindness, severe burns or death.
	WARNING - WEAR PERSONAL PROTECTIVE EQUIPMENT
	Failure to observe may result in serious injury.
	WARNING - DO NOT TOUCH
	 Failure to observe this warning may result in personal injury, death, or equipment damage.
\wedge	CAUTION
	Failure to observe a caution may result in equipment damage.

1.1.1 Qualified Personnel

i	IMPORTANT INFORMATION
	The term qualified personnel is defined here as individuals who thoroughly understand the equipment and its safe operation, maintenance and repair. Qualified personnel are physically capable of performing the required tasks, familiar with all relevant safety rules and regulations and have been trained to safely install, operate, maintain and repair the equipment. It is the responsibility of the company operating this equipment to ensure that its personnel meet these requirements.
	Always use required personal protective equipment (PPE) and follow safe electrical work practices.

To use this equipment safely:

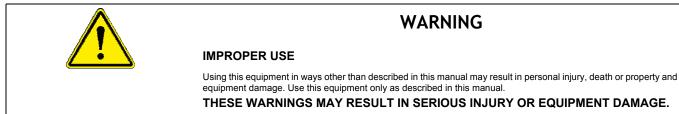
1.2 To use this equipment safely:

WARNING
Read installation instructions in their entirety before starting installation.
 Become familiar with the general safety instructions in this section of the manual before installing, operating, maintaining or repairing this equipment.
 Read and carefully follow the instructions throughout this manual for performing specific tasks and working with specific equipment.
Make this manual available to personnel installing, operating, maintaining or repairing this equipment.
 Follow all applicable safety procedures required by your company, industry standards and government or other regulatory agencies.
Install all electrical connections to local code.
 Use only electrical wire of sufficient gauge and insulation to handle the rated current demand. All wiring must meet local codes.
Route electrical wiring along a protected path. Make sure they will not be damaged by moving equipment.
 Protect components from damage, wear, and harsh environment conditions.
 Allow ample room for maintenance, panel accessibility, and cover removal.
 Protect equipment with safety devices as specified by applicable safety regulations.
 If safety devices must be removed for installation, install them immediately after the work is completed and check them for proper functioning prior to returning power to the circuit.
Failure to follow these warnings may result in serious injury or equipment damage.

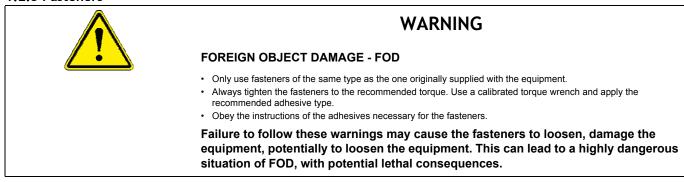
1.2.1 Additional Reference Materials:

IMPORTANT INFORMATION
 IEC - International Standards and Conformity Assessment for all electrical, electronic and related technologies IEC 60364 - Electrical Installations in Buildings FAA Advisory: AC 150_5340_26 (current edition) Maintenance of Airport Visual Aid Facilities ANSI/NFPA 79, Electrical Standards for Metalworking Machine Tools. National and local electrical codes and standards.

1.2.2 Intended Use



1.2.3 Fasteners





1.2.4 Operation CAUTION **IMPROPER OPERATION** Only qualified personnel, physically capable of operating the equipment and with no impairments in their judgment or reaction times, should operate this equipment. Read all system component manuals before operating this equipment. A thorough understanding of system components and their operation will help you operate the system safely and efficiently. Before starting this equipment, check all safety interlocks, fire-detection systems, and protective devices such as panels and covers. Make sure all devices are fully functional. Do not operate the system if these devices are not working properly. Do not deactivate or bypass automatic safety interlocks or locked-out electrical disconnects or pneumatic valves · Protect equipment with safety devices as specified by applicable safety regulations. If safety devices must be removed for installation, install them immediately after the work is completed and check them for proper functioning. Route electrical wiring along a protected path. Make sure they will not be damaged by moving equipment. · Never operate equipment with a known malfunction. Do not attempt to operate or service electrical equipment if standing water is present. Use this equipment only in the environments for which it is rated. Do not operate this equipment in humid, flammable, or explosive environments unless it has been rated for safe operation in these environments. Never touch exposed electrical connections on equipment while the power is ON. Failure to follow this instruction can result in equipment damage.

1.2.5 Storage



1.2.6 Material Handling Precautions

Precautions CAUTION Image: Construct of the construction of the co



WARNING

UNSTABLE LOAD

- Use extreme care when moving heavy equipment.
- Verify that the moving equipment is rated to handle the weight.
- When removing equipment from a shipping pallet, carefully balance and secure it using a safety strap.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

To use this equipment safely:

1.2.7 Action in the Event of a System or Component Malfunction

	DANGER
- AME	ARC FLASH AND ELECTRIC SHOCK HAZARD
	 Do not operate a system that contains malfunctioning components. If a component malfunctions, turn the system OFF immediately.
\wedge	 An open airfield current circuit is capable of generating >5000 Vac and may appear OFF to a meter.
	 Never unplug a device from a constant current circuit while it is operating. Arc flash may result.
	Disconnect and lock out electrical power.
	 Allow only qualified personnel to make repairs. Repair or replace the malfunctioning component according to instructions provided in its manual.
	Failure to follow these warnings will result in death or equipment damage.

1.2.8 Maintenance



ELECTRIC SHOCK HAZARD

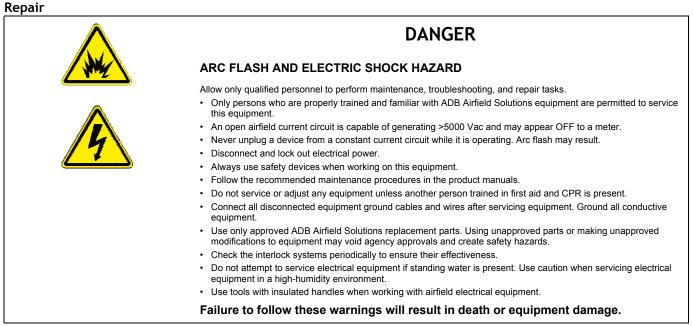
 Do not operate a system that contains malfunctioning components. If a component malfunctions, turn the system OFF immediately.

WARNING

- · Disconnect and lock out electrical power.
- Allow only qualified personnel to make repairs. Repair or replace the malfunctioning component according to instructions provided in its manual.

Failure to follow these warnings will result in death or equipment damage.

1.2.9 Maintenance and





2.0 Windsock Tower - Internally Illuminated - LED and Quartz

Description: Windsock towers are used at airports to provide pilots with a visual indication of wind direction and velocity at ground level.

2.1 About this manual

2.1.1 Introduction

The manual shows the information necessary to:

- Install
- Carry Out Maintenance
- Carry Out Troubleshooting on the Wind Direction Indicator.
- 1. Become familiar with the structure and content.
- 2. Carry out the actions completely and in the given sequence.

2.1.3 Record of changes

2.1.2 How to work with

the manual

Page	Rev	Description	Date
All	В	Released Manual	12/08/15

Product Introduction

2.2 Product Introduction		
2.2.1 Equipment Description	The LED Windsock Tower Conversion Kit can be used with most Transport Canada style ADB, Siemens or P. Wedge Windsock Towers to convert from either the 120VAC PAR38 lamp or the 100W Quartz PK30d 6.6A lamp to a current or voltage powered LED fixture.	
	The 120VAC version requires replacement of only the PAR38 fixture and lamp.	
	The 2.8-6.6A current version requires replacement of the fixture and lamp as well as the constant brightness power supply with a series current LED power supply.	
2.2.2 Compliance with	T/C: K305, TP 312	
Standards	ICAO: Annex 14, Vol. 1 Para. 5.1.1	
2.2.3 Uses	Used to convert most Transport Canada style Windsock Towers from incandescent to LED internal lighting.	
	Two version of the kits are available, one for 120VAC voltage powered units and one for 2.8-6.6A current powered units.	
2.2.4 Electrical Supply	C23-030000-LC - LED Internally Illuminated, 2.8-6.6A Series Powered from a 200W Isolating	
	Transformer.	
	C23-030000-LV - LED Internally Illuminated, 120-277VAC Voltage Powered from a Line voltage input or a Series to voltage Power Adapter.	
2.2.5 Operating Conditions	Temperature: -55°C to +55°C	
	Humidity: 0 to 100% (including conditions where condensation takes place in the form of water or frost)	
	Altitude: 0 to 10,000 ft (3,000 m)	
	Wind: Velocities up to 75 knots (140 km/hr)	
	Exposure: Withstands windblown rain, sand, dust particles, and a salt-laden atmosphere	
2.2.6 Equipment	LED Conversion Kit	
Specification Data	Shipping Dimensions:	
	24" x 24" x 18" - 25lbs (61cm x 61cm x 45cm - 11kg)	
2.2.7 Equipment and	The LED Windsock Tower Conversion Kit consists of:	
Accessories Supplied	— LED Fixture	
	 LED current power supply (-LC version only). 	
2.2.8 Equipment Required But Not Supplied	 a. Medium size blade screwdriver b. Wire stripper/crimper c. Screwdriver Set d. Electric Drill c/w set of bits e. Wire nuts f. Incoming Power wiring g. Source of 120VAC,60Hz or 200W Isolating Transformer. h. True RMS Ammeter and Voltmeters for 6.6A Series circuit model i. 1/4"-20 Tap j. 6 - 1/4"-20 x 1" S.S. Screws 	



2.3 Installation

2.3.1 Introduction

2.3.2 Unpacking and Material Inspection

2.3.3 Installation Procedures

2.3.3.1 For Series Current Powered Version (-LC):

This section provides the detailed procedures required to safely and correctly install, integrate, calibrate, align, and confirm (i.e. checkout) performance of the product.

Unpack all cartons upon receipt and check for contents and condition. Note any exterior carton damage that would indicate equipment damage. Be sure to check number of cartons received against the bill of lading. If damage to any equipment is noted, a claim form should be filed with the carrier immediately. Inspection of equipment by the carrier at time of delivery should be required.

- 1. For series powered version with the LED current power supply, locate the power supply enclosure in a suitable location on the windsock tower base section. Mark, drill and tap suitable 1/4"-20 mounting holes for the enclosure and fasten to base section.
- 2. If there is an existing toggle switch or circuit breaker located between the power supply enclosure, it must be removed or bypassed. The ON/OFF switching is done from the enclosure mounted switch on the power supply. There must be no interruptions in the circuit between the power supply and the LED fixture.
- Verify the condition and polarity of the conductors running up the pole and through the swivel. Ensure that the swivel brushes and slip-rings are in good condition - replace or repair as necessary.
- 4. Refer to Figure 5 and mark existing conductors with colored electrical tape to denote correct polarity.
- 5. Remove the existing fixture/swivel lamp mounting casting from the swivel (4 Allen screws) and install the fixture in place of the existing fixture. Orient so that the 1/2" NPT hole on the casting is at the bottom when installed on the swivel. Connect the fixture to swivel leads, again ensuring correct polarity.
- Re-install the fixture/casting on the swivel and ensure fixture is fully tightened and correctly oriented. Tighten two locking screws in knuckle of fixture. Apply Loctite 262 thread locking compound to all threaded joints (refer to Figure 4) isolating transformer.
- 7. Make connections at LED Power Supply enclosure, again ensuring correct polarity..



CAUTION

The LED Current Powered Option (-LC) wiring is +/- polarity sensitive. Reversing the polarity may cause damage to the LED fixture not covered by warranty. It is always recommended that the continuity/polarity of the wiring be confirmed prior to connecting the fixture.

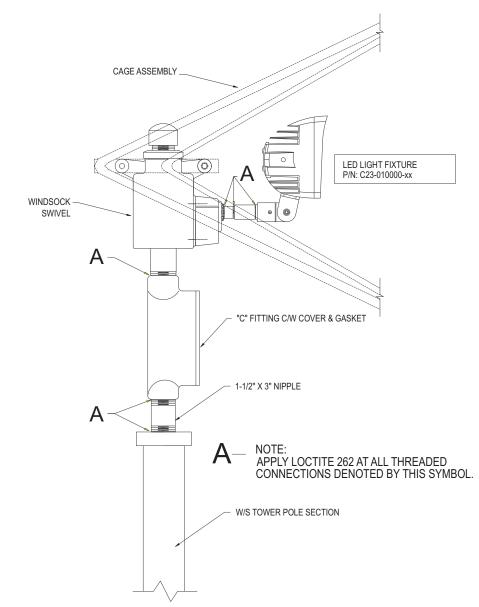
Failure to observe this caution may result in equipment damage.

- 1. Verify the condition and polarity of the conductors running up the pole and through the swivel. Ensure that the swivel brushes and slip-rings are in good condition replace or repair as necessary.
- 2. Refer to Figure 6 and mark existing conductors with color electrical tape to denote correct polarity.
- 3. Remove the existing fixture/swivel lamp mounting casting from the swivel (4 Allen screws) and install the fixture in place of the existing fixture. Orient so that the 1/2" NPT hole on the casting is at the bottom when installed on the swivel. Connect the fixture to swivel leads, again ensuring correct polarity.
- 4. Re-install the fixture/casting on the swivel and ensure fixture is fully tightened and correctly oriented. Tighten two locking screws in knuckle of fixture. Apply Loctite 262 thread locking compound to all threaded joints (refer to Figure 1) isolating transformer.

2.3.3.2 For Parallel Voltage Powered Version (-LV):

Installation



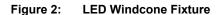


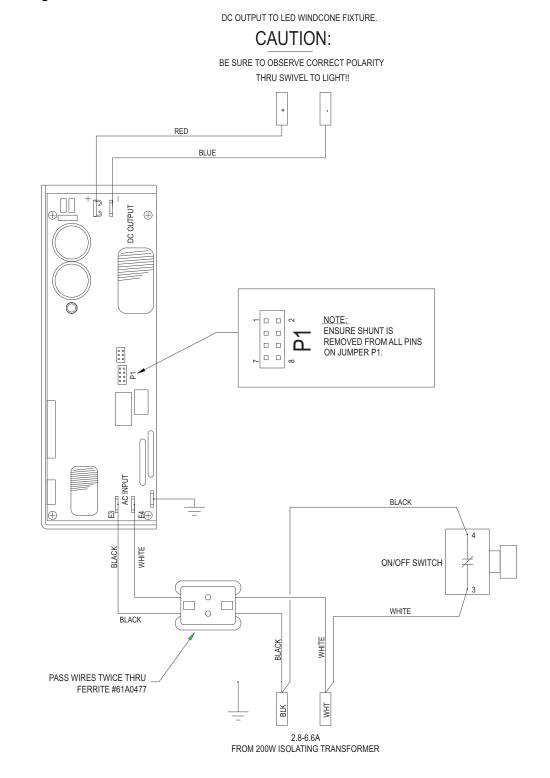
2.3.4 LED Current Power Supply Adjustment	ADB LED internally illuminated windsock towers are designed to be used on a variable brightness runway or taxiway circuit series (5-step or 3-step) and are equipped with a constant brightness output power supply that will maintain the illumination level of the LED windsock tower fixture as the circuit brightness level is decreased to the lower intensities.
	There are no adjustments required for the LED fixture power supply. Open the power supply enclosure and referring to Figure 2, ensure that the P1 jumper is removed from all pins on the power supply PCB.
2.3.5 LED Voltage Fixture Adjustment	There are no adjustments on the voltage powered LED version. Simply connect the windsock tower to a source of 120-277VAC as per wiring diagram Figure 6.



2.4 Operation The operation of the windsock tower is straight forward. The internal light unit energizes when power is supplied to the unit and the disconnect switch is turned on.

2.4.1 LED Current Power Supply LED current power supply PCB has an indicator diode on the PCB. A normal operating power supply will flash the PCB LED D4 at a 2 second rate when power is first applied. If the power supply senses current flowing to the LEDs the PCB LED D4 will continue to flash at a 2 second rate. If the power supply senses an open circuit on its output after about 5 seconds, it will turn off the PCB LED D4.





Maintenance

2.5 Maintenance

2.5.1 Periodic Maintenance Schedule Perform maintenance based on frequency as established by airport policies and procedures recommended by Transport Canada.

MAINTENANCE REQUIREMENT		w	М	BM	SA	Α	U
1. Inspect for outages; repair as necessary	Х						
2. Check light fixture alignment and orientation			Х				
3. Clean fixture & check for moisture in light				Х			
4. Lubricate pivot bolt and wingnut with a suitable waterproof lithium based grease.					х		
5. Check all fasteners for proper tightness.					Х		
6. Inspect structure for any cracks, corrosion etc. and replace where required. Touch up any bare metal areas to prevent corrosion and maintain high visibility.					x		
7. Check input power to ensure voltage/current is within specifications.						Х	
8. Inspect and replace any cracked or frayed wiring.						Х	
9. Replace windsock if torn or faded.							Х
10. Check swivel bearings for smoothness and ease of rotation.						х	
10. Inspect swivel brushes for wear.						Х	
10. Replace lamps after 80 percent of the rated life and prior to 90 percent of the rated life.							х

2.5.2 Swivel Maintenance

The windsock swivels are equipped with permanently lubricated bearings that require no maintenance. The brushes are field replaceable and can obtained by contacting ADB. It is recommended that for any further repair required on the swivel unit that it be returned to ADB for refurbishment.



2.6 Troubleshooting Refer to the following troubleshooting guide table specific to your model:

Problem – LED Current Powered	Possible Cause	Corrective Action	
	Loose wires or connections	Tighten or replace wires.	
	No current or incorrect current coming into the power supply	Verify correct current is coming into the power supply using a true RMS ammeter. This would be 2.8 A to 6.6 A for a 5-step CCR; 4.8 A to 6.6 A for a 3-step CCR. Check the isolating transformer wattage rating, it should be 200W.	
	Power supply ON/OFF switch is closed	Check the power supply ON/OFF switch for proper operation. Replace if necessary.	
Light fixture is out	Power Supply fault	With field current on, on power supply PCB 44A7260/010, measure the voltage at test point E7 with respect to E8. E7 will be 10 VDC to 13 VDC on a properly operating power supply when powered. Check to insure that the jumper on the power supply is set properly. The jumper at P1 should be removed at not across any terminals. See Figure 2. Next, the power supply can be checked for operation by performing the following: Remove input power, disconnect the output LED load at E6 and E5. Connect a DC volt meter from E8 to E5. Look for a rising voltage to approximately 195 VDC within the first few seconds of powering on the board. This voltage will then drop to less than 50 VDC and the onboard LED (D4) will flash within a few seconds. If the voltage was between 50-195 VDC during the first few seconds of applying power, then the power supply is likely good. Note: the voltage at E8-E5 will cycle again about 40 seconds after dropping to less than 50 VDC and repeat five times and will stabilize. The input power must be cycled off for about 1 minute to get the output to cycle on again. Follow the correct polarity when reconnecting the LED fixture wiring.	
Light fixture is out.	Incorrect polarity in wiring.	Refer to Figure 5 and confirm that windsock tower and swivel are wired such that polarity is maintained. Confirm continuity of each leg.	
Light lixture is out.	Defective/worn swivel brushes.	Examine swivel brushes to confirm proper contact with slip-rings on swivel shaft. Check brushes for wear and replace as necessary.	

Table 2: LED Current Powered (-LC)

Table 3:	I FD	Voltage	Powered	(-I V)
		vonage	I Owereu (

Problem – LED Voltage Powered	Possible Cause	Corrective Action	
Light Fixture is out.	Loose wires or connections	Tighten or replace wires.	
	Switch is defective or in OFF position	Ensure that the switch is ON position. Check for voltage on both terminals of switch. Replace if necessary	
	Defective LEDs or driver unit in fixture.	Replace fixture with correct voltage powered unit.	
	Swivel brushes are worn.	Examine and replace brushes and carrier as necessary.	

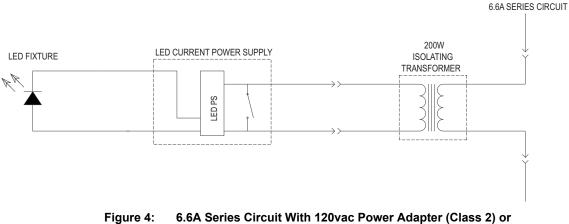
Wiring Diagrams

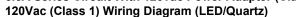
2.7 Wiring Diagrams

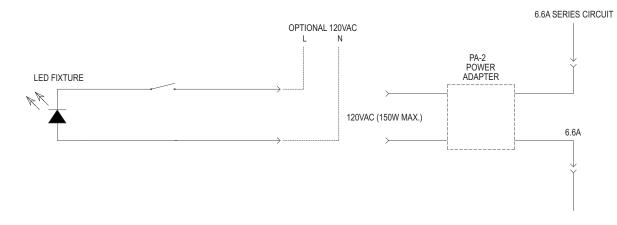
Wiring diagrams can be found at the end of the manual.

2.7.1 General Wiring

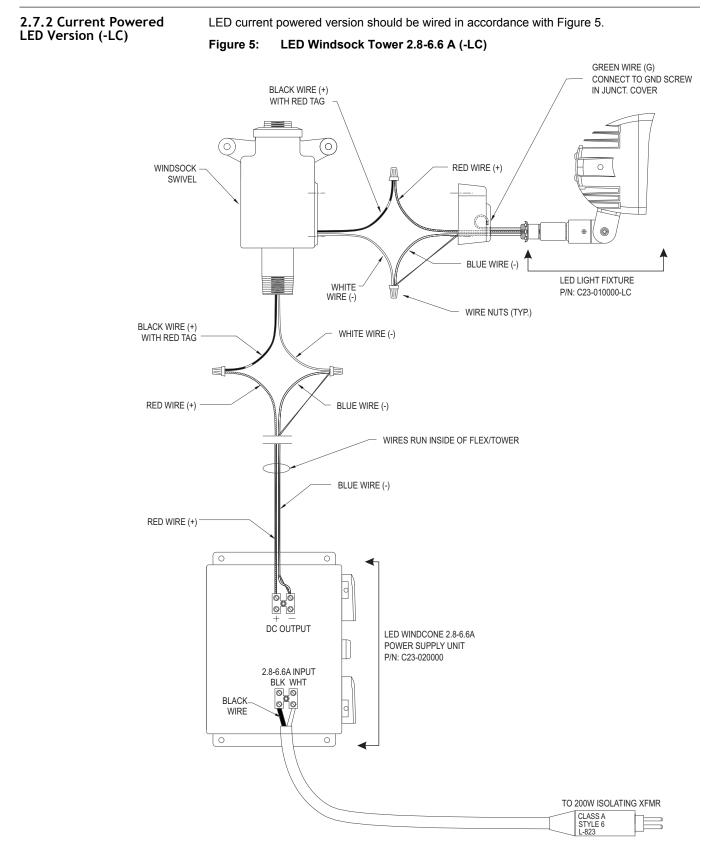
Figure 3: 2.8-6.6A Series Circuit - LED (Class 3) Wiring Diagram





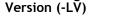




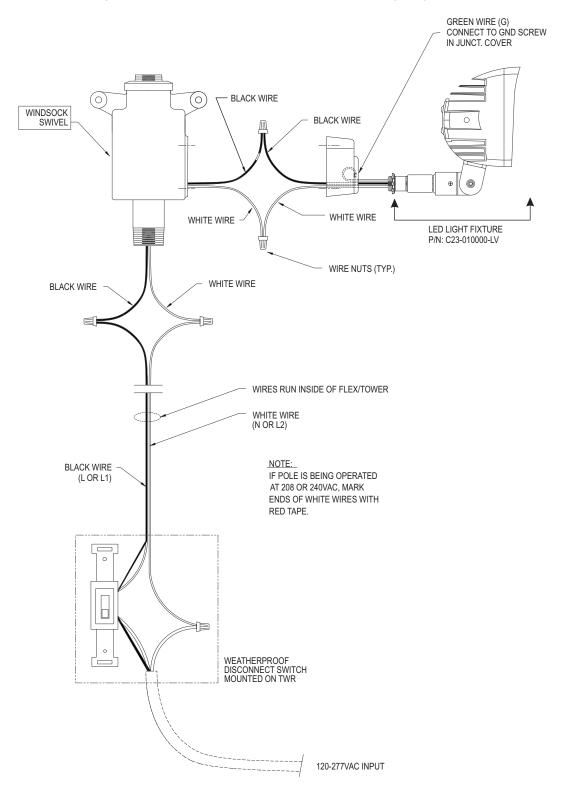


Wiring Diagrams

2.7.3 Voltage Powered LED LED voltage powered version should be wired in accordance with Figure 6.









3.0 Parts

3.1 Order Codes

The parts section is a separate file in the book so that it can be used in the Parts manual.

Ordering Code C23-030000-Input Power Type LC = Series-Powered (Class 3), LED 2.8-6.6 A LV = Voltage-Powered (Class 1) 120-277 VAC (Class 2 with the use of a 150 W PA-2 Power Adapter) Note

Conversion Kit consists of:

LC - Fixture, Mounting Adapters and separate Power Supply Unit

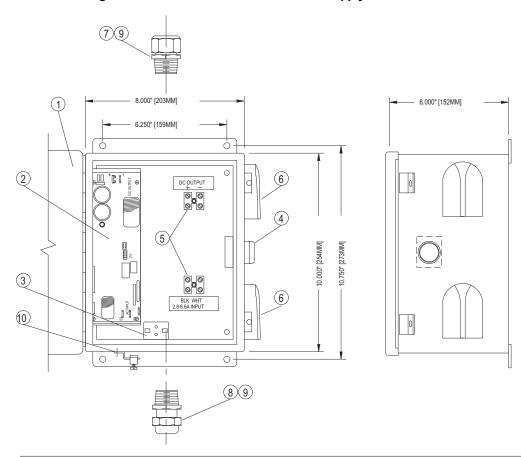
LV - Fixture with integral power supply, Mounting Adapters

Parts Diagram





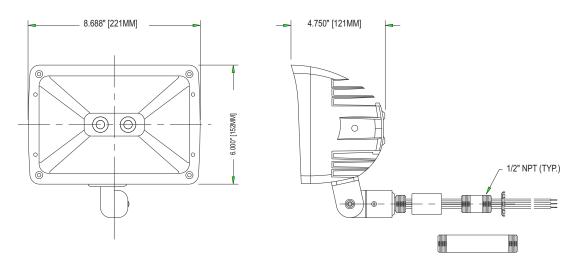




BILL OF MATERIALS				
ITEM	QTY	PART NO.	DESCRIPTION	DESIGNATION
1.0	1	1414PHI6	ENCL. N12 10 X 8 X 6 GREY	
2.0	1	44A7260/010	CURRENT DRIVEN PS ASSY (SGL)	FIRMWARE REV. 102C MIN.
3.0	1	61A0477	FERRITE CORE	
4.0	1	45A0456	SWITCH PB 1 N.O. 10A 600VAC	
5.0	1	20ED/S	TERMINAL BLOCK STRIP	(CUT AS REQUIRED)
6.0	1	DV-2	ENCL VENT (SET OF 2)	
7.0	1	ZEN4104	3/4 LT CONN STRAIGHT - WS	
8.0	1	T&B2534	LT CABLE CONNECTOR 3/4"	
9.0	2	T&B142	3/4" GALV. LOCKNUTS	
10.0	1	SLU-35	GROUND LUG	
11.0	1	MISC	LAMACOID NAMEPLATE 2" X 4"	



Figure 8:



ORDERING CODES: C23-010000-XX

INPUT POWER TYPE:

- LC- LED FOR SERIES CURRENT POWERED APPLICATIONS
- LV- LED FOR PARALLEL VOLTAGE POWERED APPLICATIONS**

NOTES:

- 1) LIGHT KIT INCLUDES, FIXTURE, 1/2" ADAPTER, 1/2" ALUM. COUPLING, CLOSE NIPPLE, 4" NIPPLE AND LOCKNUT.
- 2) CLOSE NIPPLE IS FOR USE WITH P.WEDGE CAGES OR ADB CAGES SUPPLIED AFTER OCT. 2015.
- 3) 4" NIPPLE IS FOR USE WITH SIEMENS/ADB CAGES PRODUCED PRIOR TO OCT. 2015.
- 4) FIXTURE FOR CURRENT APPLICATIONS IS COMPATIBLE ONLY WITH ADB POWER SUPPLY P/N: C23-020000.
- 5) VOLTAGE POWERED FIXTURE CAN BE USED WITH 120-277VAC SUPPLY VOLTAGE.. WATTAGE: 30W, 0.97PF @ 120VAC.

Table 4:Spare Parts Table

Part No.
C23-010000-LC
44A7260/010
C23-010000-LV

LED Windsock Tower Conversion Kit 96A0478 Rev. A

Parts Diagram





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