



Signature Series[™]

L-860 and L-860E Elevated LED Low-Intensity Elevated Edge Light (ELIL)

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ETL Certified to L-860 AC 150/5345-46C
and FAA Engineering Brief No. 67B. Meets
ICAO: Annex 14, Vol. 1, para. 5.3.5 for use on
a non-precision instrument runway

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This manual could contain technical inaccuracies or typographical errors. ADB Airfield Solutions reserves the right to revise this manual from time to time in the contents thereof without obligation of ADB Airfield Solutions to notify any person of such revision or change.

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Section 1

Safety

1. Safety

This section contains general safety instructions for using your 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. Note all warnings and follow all instructions carefully. Failure to do so may result in personal injury, death, or property damage.

To use this equipment safely,

- refer to the FAA Advisory Circular AC 150/5340-26, *Maintenance of Airport Visual Aids Facilities*, for instructions on safety precautions.
- observe all safety regulations. To avoid injuries, always remove power prior to making any wire connections and touching any parts. Refer to FAA Advisory Circular AC 150/5340-26.
- read and become familiar with the general safety instructions provided in this section of the manual before installing, operating, maintaining, or repairing this equipment.
- read and carefully follow the instructions given throughout this manual for performing specific tasks and working with specific equipment.
- store this manual within easy reach of 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.
- obtain and read Material Safety Data Sheets (MSDS) for all materials used.

2. Safety Symbols

Become familiar with the safety symbols presented in this section. These symbols will alert you to safety hazards and conditions that may result in personal injury, death, or property and equipment damage.



WARNING: Failure to observe this warning may result in personal injury, death, or equipment damage.

2. Safety Symbols (contd.)



WARNING: Risk of electrical shock. Failure to observe this warning may result in personal injury, death, or equipment damage.



WARNING: Disconnect equipment from line voltage. Failure to observe this warning may result in personal injury, death, or equipment damage.



WARNING: Wear safety goggles. Failure to observe may result in serious injury.



CAUTION: Failure to observe may result in equipment damage.

3. Qualified Personnel

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 see that its personnel meet these requirements.

4. Intended Use



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

ADB Airfield Solutions cannot be responsible for injuries or damages resulting from nonstandard, unintended applications of its equipment. This equipment is designed and intended only for the purpose described in this manual. Uses not described in this manual are considered unintended uses and may result in serious personal injury, death, or property damage. Unintended uses may result from taking 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 Airfield Solutions replacement parts
- failing to make sure that auxiliary equipment complies with approval agency requirements, local codes, and all applicable safety standards

4. Intended Use *(contd.)*

- using materials or auxiliary equipment that are inappropriate or incompatible with your ADB Airfield Solutions equipment
- allowing unqualified personnel to perform any task

5. Installation

Read the installation section of all system component manuals before installing your equipment. A thorough understanding of system components and their requirements will help you install the system safely and efficiently. See FAA Advisory Circular, AC 150/5340-30, for Runway and Taxiway Edge Lighting Systems, and job site plans and specifications for location and installation details.



WARNING: Failure to follow these safety procedures can result in personal injury or death.

- Allow only qualified personnel to install ADB Airfield Solutions and auxiliary equipment. Use only approved equipment. Using unapproved equipment in an approved system may void agency approvals.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Follow all instructions for installing components and accessories.
- 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.

6. 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.
- 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.

7. Action in the Event of a System or Component Malfunction

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

- 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.

8. Maintenance and Repair

Allow only qualified personnel to perform maintenance, troubleshooting, and repair tasks. Only persons who are properly trained and familiar with ADB Airfield Solutions equipment are permitted to service this equipment.

- Always use safety devices when working on this equipment.
- Follow the recommended maintenance procedures in your equipment manuals.
- Do not service or adjust any equipment unless another person trained in first aid and CPR is present.

8. Maintenance and Repair
(contd.)

- Connect all disconnected equipment ground cables and wires after servicing equipment. Ground all conductive equipment.
- Use only approved ADB Airfield Solutions replacement parts. Using unapproved parts or making unapproved modifications to equipment may void agency approvals and create safety hazards.
- Check interlock systems periodically to ensure their effectiveness.
- Do not attempt to service electrical equipment if standing water is present. Use caution when servicing electrical equipment in a high-humidity environment
- Use tools with insulated handles when working with electrical equipment.

Section 2

Description

1. Introduction

This section describes the ADB Airfield Solutions Signature Series™ L-860 ELIL elevated edge LED light that is used to delineate the edges of general aviation runways that require non-precision instrumentation on runways. These elevated lights are ETL certified according to FAA specification AC 150/5345-46C, and FAA LED specifications per FAA Engineering Brief 67B. The ELIL also meets the requirements for ICAO Annex 14, Vol. 1 para. 5.3.5 for use on a non-precision instrument runway. The ELIL can be supplied with or without a heater (arctic kit).

NOTE: *Signature Series* is a trademark of ADB Airfield Solutions.

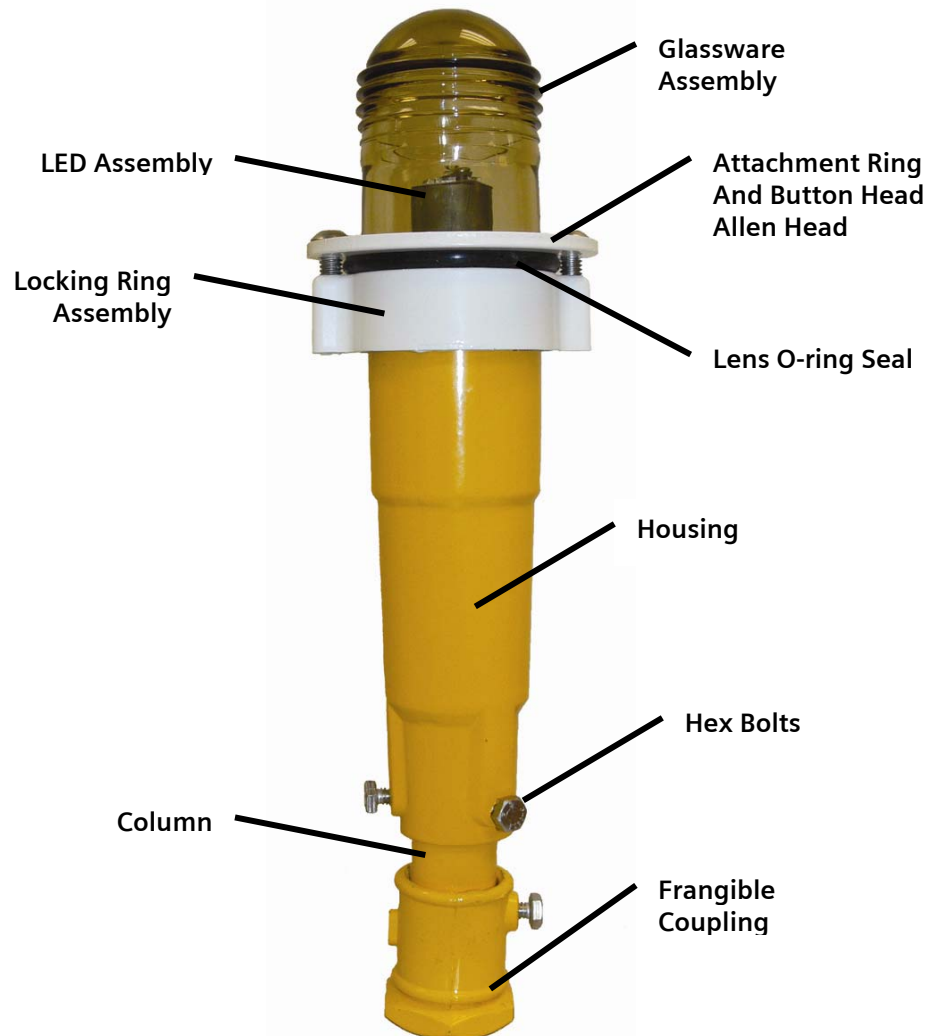


Figure 2-1 L-860 ELIL FAA Elevated Edge Light

1. Introduction *(contd.)*

See Figure 2-1 for the main items in the assembly. The ELIL is assembled at the factory and is ready for installation. The ELIL is typically supplied with a 1-1/2 -12 UNF threaded frangible coupling for mounting on a L-867B light base. The housing assembly includes the electronic package.

The fixtures can also be mounted on a L867D base plate with either a 1-1/2–12 UNF or a special 2 NPT frangible reducer coupling for an existing installation that has 2-inch NPT hub. Base mounting is recommended because maintenance is easier to perform.

The mounting column is available in three standard lengths. Refer to Table 2-1.

NOTE: The measurements in Table 2-1 are taken from the grade to the top of the light fixture.

Table 2-1 Mounting Columns

Type	Overall Mounting Height - inches. (mm)
Standard (FAA minimum)	14 (355.6)
Standard	24 (610)
Standard (FAA maximum)	30 (762)

2. L-860 LED Elevated Light Fixture: Required Equipment

Refer to Table 2-2 for required equipment that is supplied. Refer to Table 2-3 for required equipment that is not supplied. Refer to the *Parts* section for part numbers.

Table 2-2 Required Equipment Supplied

Description	Quantity
Elevated light fixture (with optical column, frangible fitting, LED module, and power cordset)	1
Instruction manual	1

2. L-860 LED Elevated Light Fixture: Required Equipment *(contd.)*

Table 2-3 Required Equipment Not Supplied

Description	Quantity
Torque wrench (0 to 200 inch-pounds)	1 (if required)
Loctite number 243 or equivalent	As required
L-867B light baseplate with 1-1/2–12 UNF or L-867B or L-867D light base with 2-inch NPT. Baseplates are supplied with gasket and mounting bolts. Optional mounting uses a L-867B with a 2-11 NPS hub for ICAO application (supplied with gasket and mounting bolts)	1 (if required)

Table 2-4 Power Requirements

For a...	Power Source
Voltage – parallel circuit w/o heater	95Vac (min.) to 264Vac (max.), 50/60Hz
Voltage – parallel circuit w/heater (arctic kit)	120Vac, ±10%, 50/60Hz

Fixture Load		
ELIL Fixture	Power	Fixture Load
w/o heater	95-264Vac	7W (14VA)
w/heater (arctic kit)	120Vac	22W (29VA)

3. Specifications

Input

See Table 2-4

Expected LED Life

Up to 100,000 hours

Light Source

3 Watt high lumen density (brightness) white LED
1-Watt high brightness Red and Green LEDs

Environmental Operating Conditions

The L-860 light fixture is designed to operate under the conditions presented below for temperature, wind, altitude, and relative humidity.

Temperature

-40 to +55°C (-40 to +131°F)

Wind

Velocities up to 350 mph (560 kph)

Altitude

Sea level to 10,000 feet (3000 m)

Relative Humidity

Up to 100 %

Weight

Table 2-5 Light Fixture Weight

Assembled Fixture	Fixture Weight
14-Inch overall height	5 lb (2.27 kg)
24-Inch overall height	6.25 lb (2.84 kg)
30-Inch overall height	7 lb (3.18 kg)

Photometric Data

Table 2-6 L860 Photometric Data

Color	Light Source	Measured Peak Intensity (candelas)	
		2-10 Degrees Vertical	Minimum
White (FAA)	Omni-directional side-emitting LED	50	15 (FAA)
White (ICAO)	Omni-directional side-emitting LED	55	15 (ICAO)
Red	Omni-directional side-emitting LED	N/A	N/A
Green	Omni-directional side-emitting LED	N/A	N/A

Section 3

Installation



WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

1. Introduction

This section provides instructions for installing the L-860 low intensity elevated light fixture. Refer to the airport project plans and specifications for the specific installation instructions.

2. Unpacking

The equipment is shipped ready for installation. Handle equipment very carefully to prevent component damage. Unpack the carton upon receipt and check the contents and their condition. Note any exterior damage to the carton that might lead to detection of equipment damage.

If you note any damage to any equipment, file a claim with the carrier immediately. The carrier may need to inspect the equipment.

3. Placement

This subsection describes the placement of the L-860 light fixtures. Follow the guidelines below, along with FAA specification AC 150/5340-30 and site plans when placing the L-860 light fixture.

- The L-860 light fixture is normally positioned a maximum of 10 feet (3.048 m) off the edge of the hard surface of the runway, and in a straight line with all other light fixtures on the same side of the runway.
- The longitudinal spacing of the light fixtures should not exceed 200 feet (60.96 m) to define the lateral limits of the taxiing paths. The longitudinal spacing of the lights is influenced by the physical layout of the runways.
- Closer spacing of the lights should be provided on short runway sections, curves, and entrances to runways from runways or aprons.

4. Installation

This subsection provides installation instructions for the L-860 light fixtures.

Base Mounting

L-860 light fixtures can be mounted on an L-867 base plate with a diameter and bolt-hole corresponding to either a 12-inch- (304.8 mm-) diameter L-867B base or a 16-inch- (406.4 mm-) diameter L-867D base plate per FAA AC 150/5345-46. The base plate is designed to receive a frangible coupling using a female thread. The standard coupling thread is 1-1/2 -12UNF optional thread is 2-11-1/2 NPT, and 2-11 TPI (ICAO application). A gasket is supplied with the base plate to form a watertight seal between the base plate and the L-867 light base per FAA AC 150/5345-46.

NOTE: Install the base according to FAA Advisory Circular AC 150/5340-30 and site plans.

Light Base Mounting

To install the base, perform the following procedure:

1. Install the L-867 base on undisturbed soil. If the soil is unsuitable, remove soil to an adequate depth and replace with compacted acceptable material.

NOTE: In closed duct systems, install in soil conditions with good drainage. Use light bases having a drain hole to prevent water accumulation.

2. Orient the cable entrance hubs of the light base in the proper direction according to site plans.
3. Level the light base so that the mounting flange surface is level with the finished grade.
4. With the base at the proper orientation and held at proper elevation, place approximately 4 inches (101.6 mm) of concrete backfill around the outside base.

NOTE: If the concrete backfill is omitted, the earth backfill must be compacted to maintain proper elevation and orientation of the base.

5. Slope the top of the concrete away from the flange portion of the base so the sloped outer edges of the concrete are at surface grade.
6. Hand screw the entire L-860 fixture onto the base plate. Finish tightening the fixture by using a wrench on the flat areas of the frangible coupling.

Light Base Mounting (cont'd)

7. There are three power wires present at the bottom of the fixture: Brown (Line), Blue (Neutral) and Green (Earth Ground). Place the assembled base plate/fixture close to the base can.
8. Bring the field circuit (from the previous base can and from the next base can) into the base can and make a waterproof splice onto the fixture leads. Refer to Table 2-4.
9. After you have connected all fixtures, check the continuity of each of the 3 parallel circuit wires. Also meg each parallel circuit wire with respect to each other and with respect to earth ground.
10. Bolt the base plate with the base plate gasket to the L-867 base using six 3/8-16 stainless steel bolts. Apply a drop of Loctite number 243 to each bolt thread, and use a torque wrench to torque bolts down to 100/110 inch-pounds (11.3 Nt-m).

Light Fixture Leveling

Level the light fixture only after mounting it on the light base.

To level the light fixture, perform the following procedure:

1. See Figure 7-2. Remove Glassware Assembly. Slightly loosen the three hex screws at the bottom of the housing.
2. Place a level on top of the housing and rotate housing until level. Tighten the three hex screws to lock in place.

Section 4

Maintenance

1. Introduction

This section provides maintenance information for the L-860 ELIL LED elevated light.

2. Maintenance Schedule

To keep the L-860 light fixtures operating efficiently, follow a preventive maintenance schedule. Refer to Table 4-1. Refer to FAA AC 150/5340-26 for more detailed information.

Table 4-1 L-860 Light Fixture Maintenance

Interval	Maintenance Task	Action
Daily	Inspect for outages	Repair as necessary
	Check cleanliness of lenses	Clean as necessary
Weekly	Check for vegetation.	Remove vegetation. Use weed killer.
Monthly	Check for misaligned fixture.	Straighten, level, and align.
	Check for dirty frangible coupling weep holes.	Clean weep holes.
Annually	Check for improper ground elevation.	Grade so frangible point is approximately 1 inch (25.4 mm) above ground elevation.
	Check for improper light elevation.	Maintain same elevation for all light fixtures.
	Check for corrosion present or paint loose or chipped.	Scrape and repaint. Touch up paint as necessary.
	Check for chipped paint on exterior body and fixture.	NOTE: The locking ring (Figure 2-1) must remain white in color. The white color identifies the fixture as a runway fixture during daylight hours when power is off.
	Check gaskets/seal for leakage	Replace gasket/seal if torn or damaged
Unscheduled	Make prediction of heavy snowfall, if necessary.	Use red flags or sticks to mark the location of fixtures to facilitate snow removal and lessen the chance of damage to fixtures by snow removal equipment. Refer to the optional snow flag kit in <i>Optional Parts</i> in the <i>Parts</i> section.

3. Assembly Instructions

NOTE: The L-860 ELIL elevated light is assembled at the factory. Use the assembly instructions below when you need to disassemble/assemble parts for repair or maintenance purposes.

To assemble parts, perform the following procedure:

1. See Figure 7-2 and repair/replace components in Section 6 starting on page 6-1. Also see Parts List and recommend Spare Parts List in Section 7.

NOTE: Apply a light coat of anti-seize compound on the locking ring threads to make assembly and disassembly easier.

2. Insert the wiring through the column and the frangible coupling and secure both with the hex screws.

Section 5

Troubleshooting



WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.



WARNING: De-energize the circuit and lock out the circuit or regulator so that the circuit cannot be energized by remote means before attempting to service the fixture.

1. Introduction

This section contains troubleshooting information for the L-860 light fixture. This information covers only the most common problems that you may encounter. If you cannot solve the problem with the information given here, contact your local ADB Airfield Solutions representative for help.

2. Troubleshooting Procedures

Refer below for troubleshooting procedures for the L-860 LED elevated light.

Problem	Possible Cause	Corrective Action
1. LED not lighting	Defective electronic module Loose wire connections Deteriorated wire insulation or voltage too low Moisture present in fixture	Replace the electronic module. Tighten wire connections. Replace wires or correct input voltage. Open and dry the fixture. Inspect the glassware for cracks. Replace the electronic module, seals, and damaged glassware assembly. Refer to the procedure under <i>LED Electronic Module Replacement</i> in the <i>Repair</i> section.
2. LED too dim	Dirty Glassware or voltage too low Service life of LED exceeded NOTE: Refer to <i>Expected LED Life</i> under <i>Specifications</i> in the <i>Description</i> section.	Clean the glass lens or correct input voltage. Replace the electronic module.
3. Ice forming on lens	Defective or missing arctic kit	Remove the glassware assembly and check to see if heating element is installed. If missing or defective install new arctic kit. See Spare Parts List in Section 7.

Section 6

Repair



WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.



WARNING: De-energize the circuit and lock out the circuit or regulator so that the circuit cannot be energized by remote means before attempting to service the fixture.

1. Introduction

This section provides instructions for repairing the L-860 LED (ELIL) light fixture. It includes replacing the L-860 LED electronic module, the arctic kit, the power cordset, and the Glassware Assembly.



CAUTION: The LED, arctic kit, and electronic module are not repairable. Failed items can only be replaced.



CAUTION: When servicing the internal components do not loosen and remove the screws that hold the glassware in place. To remove the glassware assembly simply grasp the collar below the glassware and turn counter clockwise and unscrew the assembly off of the housing.

2. Access to Internal Components

Accessing the internal components is achieved by removing the fixture from the field by performing the following procedure:

1. De-energize and lock out the circuit.
2. Remove the light fixture from the mounting base by performing the following procedure:
 - a. See Figure 7-2. Loosen the hex bolt that attaches the frangible coupling to the column.
 - b. Remove the frangible coupling from the base plate female thread.

2. Access to Internal Components *(contd.)*

3. Remove the glassware assembly, see caution above, and unscrew the glassware assembly from the fixture by rotating it counterclockwise. Separate the glassware assembly from the housing.

3. LED and Arctic Kit Replacement

- 1 **If the LED or arctic kit must be removed and replaced proceed as follows:** Grasp the LED assembly and gently lift the assembly out of the housing. Separate the electrical disconnects (1 connection if LED only, 3 connections if arctic kit is installed). If replacement is necessary see Spare Parts List in Section 7.
- 2 **If the electronic module must be removed and replaced proceed as follows:** Remove LED components as described above, then locate and remove the two screws attaching the electronic module to the housing and remove the electronic module and the cordset assembly. The cordset will fit through the clearance hole in the housing. If replacement is necessary see Spare Parts List in Section 7.
- 3 Separate the disconnect between the electronic module and the transformer cordset assembly. **NOTE:** The Cordset is connected to the terminal block located at the bottom of the PCB Assembly

4. Electronic Module Transformer Replacement

- 1 **If the Transformer or the Cordset must be removed/replaced:** Remove the LED and electronic module as described above and then proceed as follows: Replace the transformer assembly which includes the cordset. If replacement is necessary see Spare Parts List in Section 7.
- 2 After parts have been removed/replaced reassemble the items in reverse order and reinstall the Glassware Assembly. Conduct necessary tests to confirm that fixture works properly. The fixture is now ready to be reinstalled on the base plate.
- 3 Level the reinstalled light fixture. Refer to the fixture leveling procedure in *Light Fixture Leveling in Section 3, Installation.*

5. Glassware and O-Ring Seal Replacement

1. All items in the Glassware Assembly are replaceable. ADB recommends that if the glass is broken replace o-ring seal along with the new glassware. If the o-ring seal is leaking replace it with a new o-ring.
2. Remove the Glassware Assembly by unscrewing the assembly from the body. Remove the two socket button head screws from the locking ring and then remove the Lens Attachment Ring by slipping it up and off of the glassware.
3. If glassware is broken or cracked discard and install new glassware. When installing new glassware also replace the o-ring seal at the same time.
4. After the o-ring has been installed on the top of the Locking Ring, place glassware on top of the o-ring and then slip the Lens Attachment Ring, with the beveled edge of the hole over the glassware.
5. Align the holes in the attachment ring with the mating tapped holes in the lock ring and insert the two button head screws. Tighten the two screws **evenly** to prevent glassware from breaking. Torque the two screws to 25 in-lbs +/- 5.
6. The assembly is now ready to be reinstalled onto the fixture body.

Section 7

Parts

1. Introduction

To order parts, call ADB Airfield Solutions Customer Service or your local representative. Use this four-column parts list, and the accompanying illustration, to identify and order parts correctly.

Using the Illustrated Parts List

This subsection describes how to use the illustrated parts list covered later in this section. It does not provide the actual parts list.

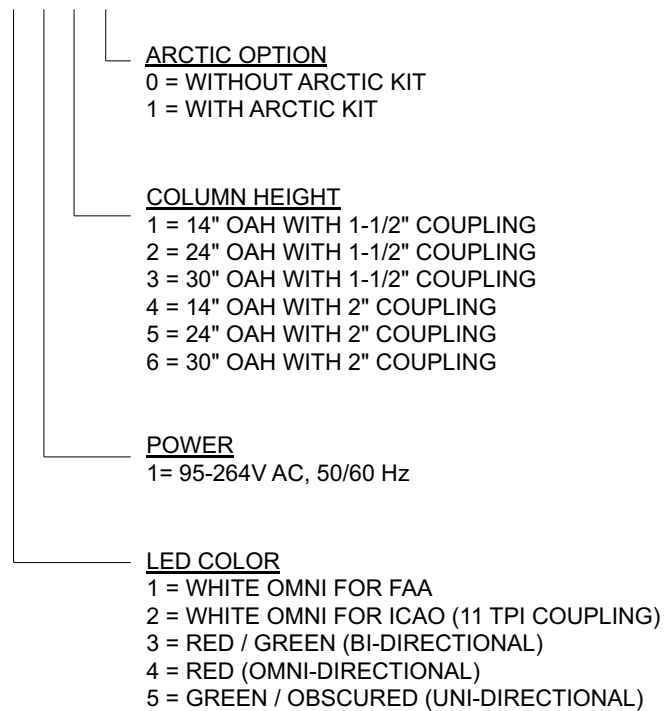
The Part Number column gives the ADB Airfield Solutions part number.

The Description column gives the part name, as well as its dimensions and other characteristics when appropriate. Indentions show the relationships between assemblies, subassemblies, and parts.

Part Number	Description	Quantity	Note
xxxxxxx	Assembly	1	A
xxxxxxx	Part	1	
xxxxxxx	Part or Assembly		
xxxxxxx	Assembly	1	
NOTE A			

The Quantity column contains the quantity required per unit, assembly, or subassembly. The code AR (As Required) is used if the part number is a bulk item ordered in quantities or if the quantity per assembly depends on the product version or model.

The Note column contains letters that refer to notes at the end of each parts list. Notes contain special ordering or product/part version information.

ELIL - XXXX0

¹ When powered by a parallel circuit, heater is designed for use at only 120Vac, ±10%, 50/60Hz.

Figure 7-1 L-860 ELIL Light Fixture Ordering Code

Part Number	Ref Fig	Description	Quantity	Note
44A6334-4	2-1, 7-2	ELIL Glassware Assembly - FAA White	1	C,S
44A6334-5	7-2	ELIL Glassware Assembly - ICAO White	1	D,S
44A6334-7	7-2	ELIL GLASSWARE ASSY FAA ELIL RED GREEN	1	
44A6334-8	7-2	ELIL GLASSWARE ASSY FAA ELIL RED	1	
44A6334-9	7-2	ELIL GLASSWARE ASSY FAA ELIL GREEN-OBSCURED	1	
44A6477	7-2	PCB Assembly Processor 95-264Vac, 50/60Hz	1	S
44A6576-40	7-2	Power Cordset Assembly 95-264Vac and 120Vac	1	S
44A6662-071E	7-2	ELIL LED Assembly Electrically Isolated w/o heater	1	S
44A6662-271E	7-2	ELIL LED Assembly Electrically Isolated w/heater	1	B,S
44A6886-0300	7-2	ELIL OPTICAL ASSEMBLY, RED/GREEN, BI-DIR	1	
44A6886-0410	7-2	L-860 OPTICAL MT. RED OMNI WITH RESISTOR	1	
44A6886-0510	7-2	L-860 OPTICAL MT. Green Obscured	1	
60A2975-3	2-1	Attachment Ring - White		
61A0281	NS	Frangible Coupling 2 inch coupling w/ 2-11-1/2 NPT	1	S
61A0350	NS	Frangible Coupling 2 inch w/2-11 TPI (ICAO only)	1	S
62A0007-2	NS	Column for 14 inch OAH for 2 inch coupling	1	A,S
62A0007-3	7-2	Column for 14 inch OAH for 1-1/2 coupling	1	A,S
62A0007-13	NS	Column for 24 inch OAH for 1-1/2 & 2 inch coupling	1	A,S
62A0007-19	NS	Column for 30 inch OAH for 1-1/2 coupling	1	A,S
62B0073	7-2	Frangible Coupling, 1-1/2-12 UNF	1	S
62A2155-3	2-1	Locking Ring - White	1	S
63A1048	2-1	Lens O-Ring Seal	1	S
63A1117W	2-1	ELIL Glassware -FAA	1	C
63A1117C	NS	ELIL Glassware - ICAO	1	D
64A0952-1	2-1	5/16-18 x 3/4 Lg Button Allen Head Screw	2	S
64A0957-06	NS	#6-32 x 3/8 Lg Self Locking Pan Hd Philips Screws (secures LED Assembly to housing)	1	S
64A0173-8	7-2	1/4-20 x 1/2 Lg hex head bolt 18-8 stn stl	2	S
67A0048	NS	Anti-seize compound	A/R	S
88A2146	2-1, 7-2	LED Elevated Housing Casting	1	E
1935	NS	12-inch L867-B light base with 1-1/2-12UNF hub (supplied with gasket and mounting bolts)	1	
1932	NS	12-inch L-867B light base with 2-inch hub (supplied with gasket and mounting bolts)	1	

Notes:

A: OAH (over all height)

B: Arctic Kit

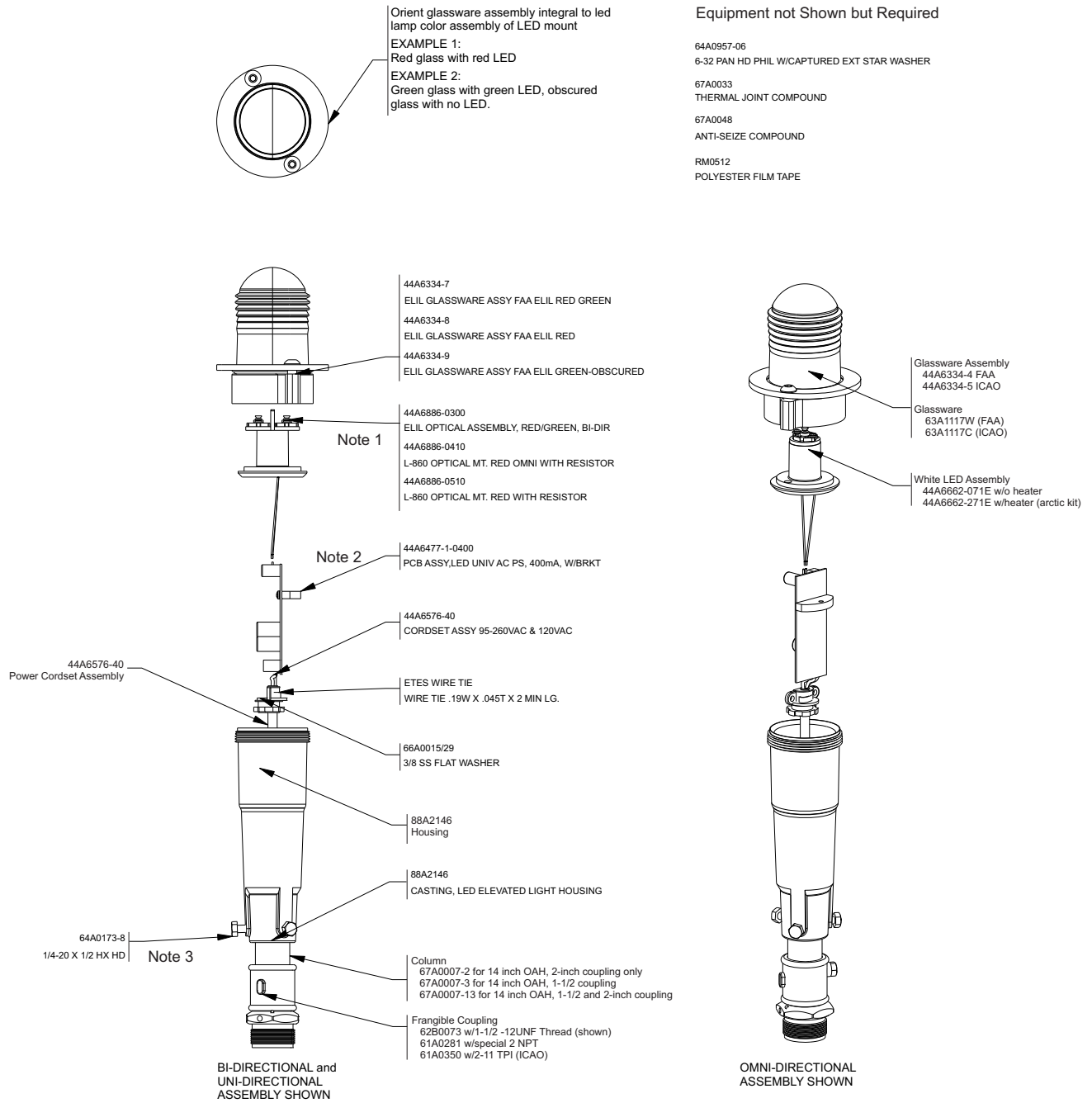
C: Glassware for FAA application has a "smokey-brown" tint.

D: Glassware for ICAO application is clear

E: Housing casting is supplied

NS (Not Shown) S: Recommended Spare Part A/R = As Required

Table 7-1 Numerical & Recommended Spare Parts List



NOTES:
 1. Configure 44a6886 optical assemblies to /1XXX for heated versions.
 2. White LED'S (3W) use the 1000mA, Red and Green (1W) use 400mA (6477)PIWR supply.
 3. 1/4-20 Hex Head Bolt, 64A0173 (3 ea. on housing, 1 ea. on frangible coupling)

Figure 7-2 ELIL L860 Elevated LED Fixture Parts

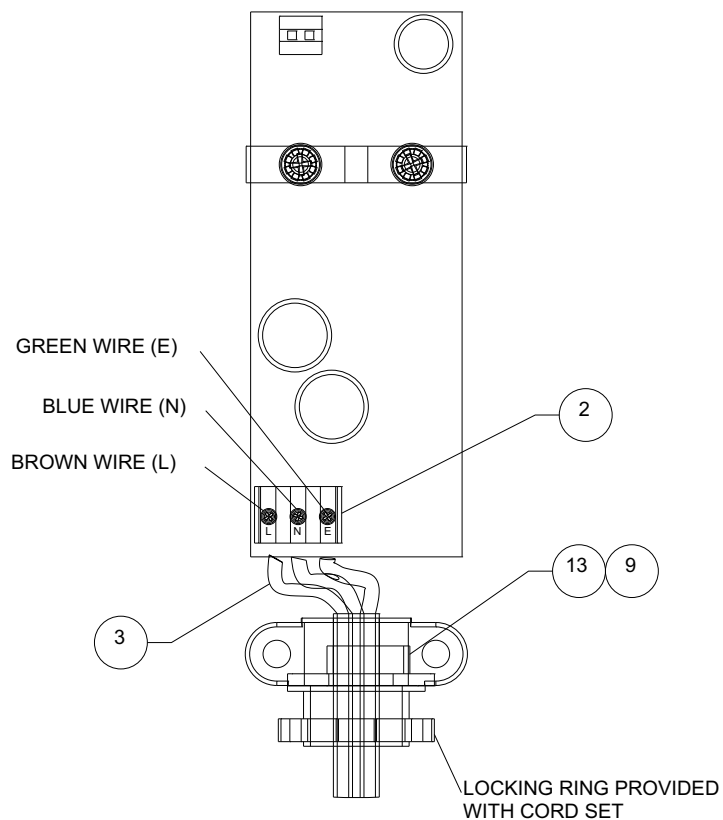


Figure 7-3 ELIL L860 Elevated LED Fixture PCB Wiring