



IUL-L

LED In-pavement Utility and Heliport Perimeter Light

Spare Parts

SP_2073, Rev. A, 2020/01/29


**ADB
SAFEGATE**

A.0 Disclaimer / Standard Warranty

CE certification

The equipment listed as CE certified means that the product complies with the essential requirements concerning safety and hygiene. The European directives that have been taken into consideration in the design are available on written request to ADB SAFEGATE.

ETL certification

The equipment listed as ETL certified means that the product complies with the essential requirements concerning safety and FAA Airfield regulations. The FAA directives that have been taken into consideration in the design are available on written request to ADB SAFEGATE.

All Products Guarantee

ADB SAFEGATE 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 SAFEGATE 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 SAFEGATE 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 SAFEGATE further reserves the right to require the return of such goods to establish any claim.

ADB SAFEGATE'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 SAFEGATE'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 SAFEGATE, warranty is limited to that extended by the original manufacturer. This is ADB SAFEGATE'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.

Standard Products Guarantee

Products of ADB SAFEGATE manufacture are guaranteed against mechanical, electrical, and physical defects (excluding lamps) which may occur during proper and normal use for a period of two years from the date of ex-works delivery, and are guaranteed to be merchantable and fit for the ordinary purposes for which such products are made.



Note

See your sales order contract for a complete warranty description.

FAA Certified product installed in the United States or in US Military installations guarantee

ADB SAFEGATE 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).

ADB SAFEGATE 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 from date of installation, per FAA EB67 (applicable edition).

ADB SAFEGATE LED light fixtures (with the exception of obstruction lighting) are warranted against electrical defects in design or manufacture of the LED or LED specific circuitry for a period of 4 years from date of installation, per FAA EB67 (applicable edition).

**Note**

See your sales order contract for a complete warranty description.

Liability

**WARNING**

Use of the equipment in ways other than described in the catalog 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 SAFEGATE 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 SAFEGATE 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 SAFEGATE equipment.
- Allowing unskilled personnel to perform any task on or with the equipment.

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TABLE OF CONTENTS

1.0 LED IUL	1
1.1 Introduction.....	1
1.1.1 LED In-pavement Utility & Heliport Perimeter Light.....	2
2.0 Parts	3
2.1 IUL Light Fixture Parts.....	3
2.2 Spare Components.....	4
A.0 SUPPORT	7
A.1 ADB SAFEGATE website.....	7
A.2 Recycling.....	8
A.2.1 Local authority recycling.....	8
A.2.2 ADB SAFEGATE recycling.....	8

1.0 LED IUL

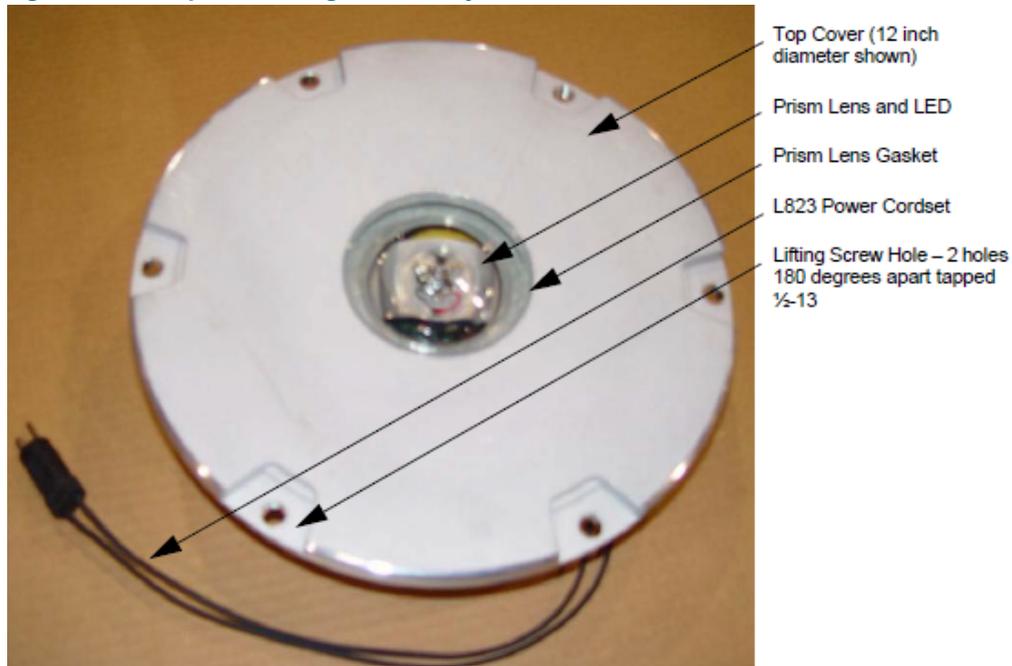
This manual covers all information pertaining to the ADB SAFEGATE LED In-pavement Utility Light (IUL).



1.1 Introduction

See [Figure 1](#). This section describes the ADB Airfield Solutions IUL (In-pavement Utility Light). See [Figure 1](#). The IUL is manufactured in accordance with FAA specification AC 150/5345-46 and FAA Engineering Brief 67 for the LED performance requirements, Style 3 ($\leq \frac{1}{4}$ inch Height Above Grade). The fixture is available in both 8 inch and 12 inch diameter versions. The 8- inch mounts on a special shallow base and is typically glued into place. The standard 12-inch mounts directly on a FAA L-868B Light Base or can be machined to mount on a FAA L-867B light base. See Section 3 for additional installation instructions. The standard 12-inch fixture is shown in [Figure 1](#). The fixture can be supplied with either a white, yellow, green, blue, or red light beam. The fixture is voltage driven.

Figure 1: IUL In-pavement Light Assembly



1.1.1 LED In-pavement Utility & Heliport Perimeter Light

Compliance with Standards

FAA:	Manufactured to applicable L-852T(L) requirements in FAA AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67.
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Uses

- Heliports with constant voltage sources
 - Yellow for military and existing civilian applications
 - Green for new civilian applications
 - Used as boundary marking of final approach and takeoff (FATO) areas, touchdown and lift-off (TLOF) areas, and aprons
 - Also used for taxiway edges and aiming points
- Gate security
- Under vehicle inspection illumination
- Used for a variety of special applications where a balance of vertical and horizontal light output is required
- Provides essential lighting for the protection of fixed installations and other potential targets
- Used in high security areas to assist detection of bombs and smuggling, in maintenance facilities to spot vehicle damage, and to protect entrances to security areas
- Fixture layout/quantity can be designed for individual and/or pattern control to enable use of alternate traffic patterns

Electrical Supply

Input Voltage

W/out Heater	With Heater
95VAC (min.) -264 VAC (max.), -50/60 Hz	120 VAC, ±10%, 50/60 Hz

Maximum Input Power

	W/out Heater	With Heater
Yellow	10.2 VA	33.2 VA
Green	14.3 VA	37.3 VA
Blue	13.5 VA	36.5 VA
White	14.3 VA	37.3 VA
Red	14.3 VA	37.3 VA

2.0 Parts

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

Ordering Code

LED Color

- 1 = White
- 2 = Yellow
- 3 = Green
- 4 = Blue
- 5 = Red

Mounting

- 1 = 12-inch fixture for L-868 light base
- 2 = 12-inch fixture for L-867 light base
- 3 = 8-inch fixture for 8-inch light base

Light Beam Direction

- 1 = Upward light pattern
- 2 = Omnidirectional light pattern¹

Arctic Option

- 0 = Without arctic option
- 1 = With arctic option²

IUL - X X X X



Notes

Fixture supplied with only L-823 style male connector. To ensure wire entry is waterproof, a secondary connector kit (Part No. 70A0046) is required for installation.

¹ Heliport light pattern

² When powered by a parallel circuit, heater is designed for use at only 120 VAC, ±10%, 50/60 Hz

2.1 IUL Light Fixture Parts

Figure 2: Top Cover without Heater

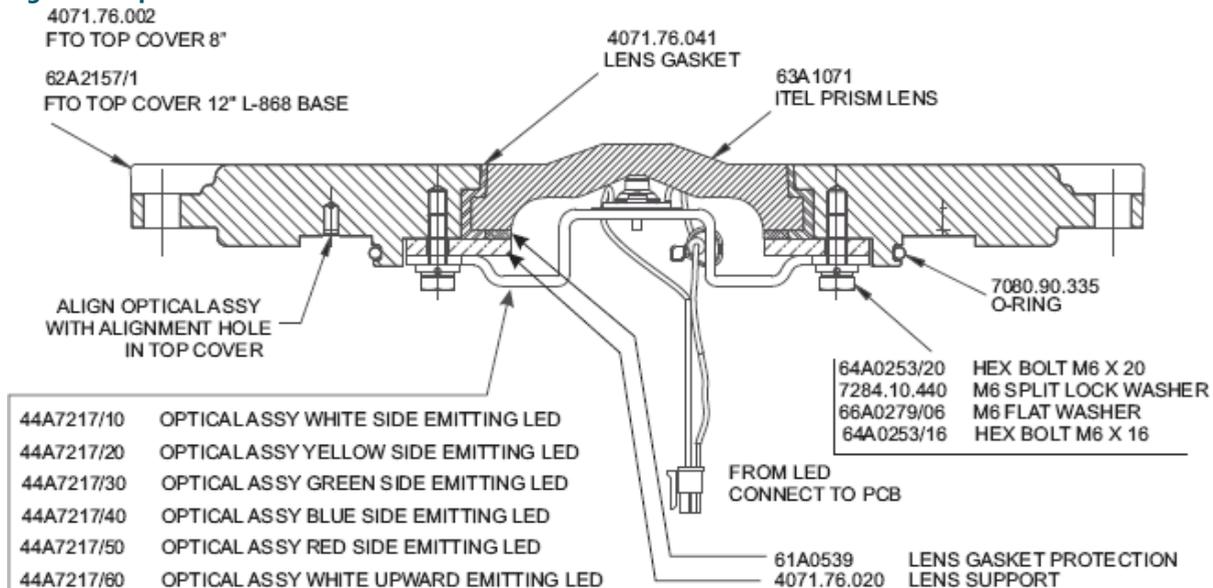


Figure 3: Top Cover with Heater

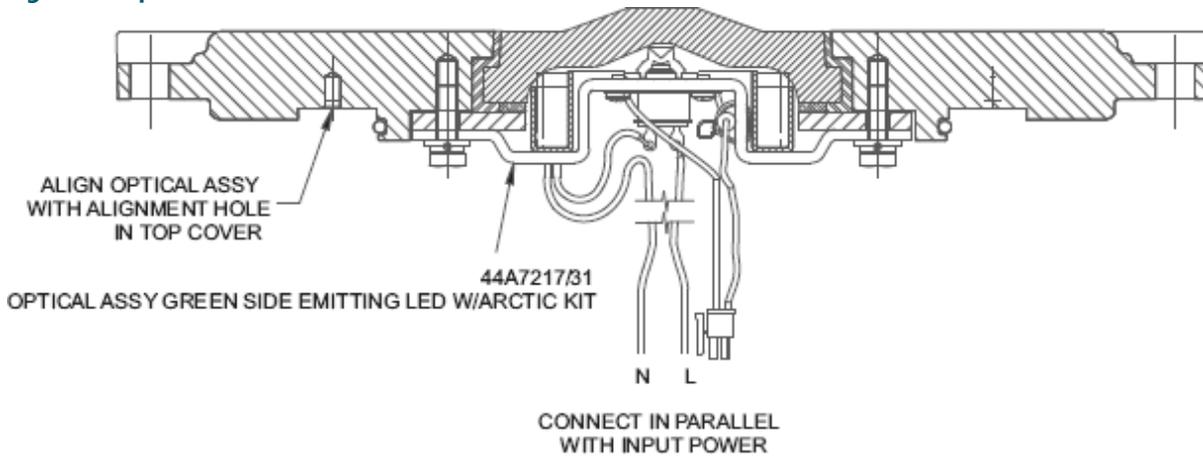
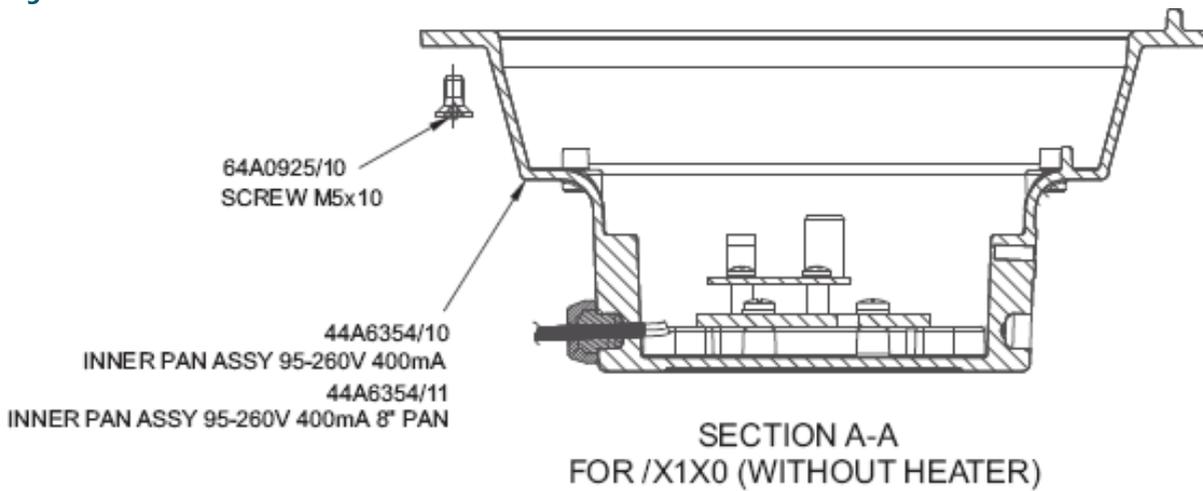


Figure 4: IUL Inner Pan



8-inch Load Bearing Base Can

88ICC05Y

2.2 Spare Components

Description	Part No.
Cord set	73A0136-23
Inner pan assembly, 95-264 V, yellow	44A6354-10
Inner pan assembly, 95-264 V, blue	44A6354-20
Inner pan assembly, 95-264 V, green, white	44A6354-30
LED optical assembly, white, omni-directional light pattern, w/out heater	44A7217-10
LED optical assembly, white, omni-directional light pattern, with heater	44A7217-11
LED optical assembly, yellow, omni-directional light pattern, w/out heater	44A7217-20
LED optical assembly, yellow, omni-directional light pattern, with heater	44A7217-21
LED optical assembly, green, omni-directional light pattern, w/out heater	44A7217-30

Description	Part No.
LED optical assembly, green, omni-directional light pattern, with heater	44A7217-31
LED optical assembly, blue, omni-directional light pattern, w/out heater	44A7217-40
LED optical assembly, blue, omni-directional light pattern, with heater	44A7217-41
LED optical assembly, red, omni-directional light pattern, w/out heater	44A7217-50
LED optical assembly, red, omni-directional light pattern, with heater	44A7217-51
LED optical assembly, white, upward light light pattern, w/out heater	44A7217-60
LED optical assembly, white, upward light pattern, with heater	44A7217-61
Lens gasket, molded	4071.76.041
O-ring, inner cover seal	63A1285
Prism lens	63A1071
Secondary female connector kit	70A0046
Top cover, 8-inch	4071.76.002
Top cover, 12-inch, L-868 11.25" bolt circle	62A2157-1
Top cover, 12-inch, L-867 10.25" bolt circle	62A2157-2

Appendix A: SUPPORT

Our experienced engineers are available for support and service at all times, 24 hour/7 days a week. They are part of a dynamic organization making sure the entire ADB SAFEGATE is committed to minimal disturbance for airport operations.

ADB SAFEGATE Support

Live Technical Support - Americas

If at any time you have a question or concern about your product, just contact ADB SAFEGATE's technical service department. Trained in all areas of system issues, troubleshooting, quality control and technical assistance, our highly experienced Technical support specialists are available 24 hours a day, seven days a week to provide assistance over the phone.

ADB SAFEGATE **Americas Technical Service & Support (US & Canada): +1-800-545-4157**

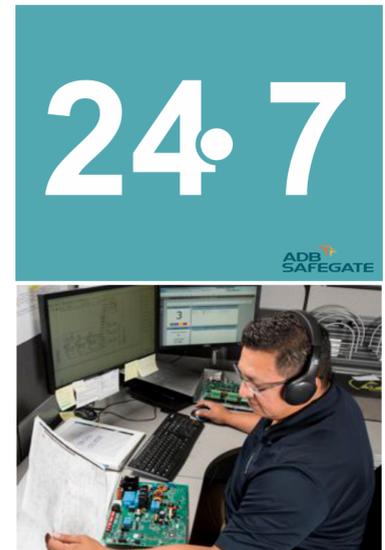
ADB SAFEGATE Americas Technical Service & Support (International): +1-614-861-1304

During regular business hours, you can also Chat with a Service Technician. We look forward to working with you!

Before You Call

When you have an airfield lighting or system control system problem it is our goal to support airfield maintenance staff as quickly as possible. To support this effort we ask that you have the following information ready before calling.

- The *airport code*
- If not with an airport, then company name (prefer customer id number)
- Contact phone number and email address
- Product with part number preferable or product number
- Have you reviewed the product's manual and troubleshooting guide
- Do you have a *True RMS* meter available (and any other necessary tools)
- Be located with the product ready to troubleshoot



Note

For more information, see www.adbsafegate.com, or contact ADB SAFEGATE Support via email at support@adbsafegate.com or

Brussels: +32 2 722 17 11

Rest of Europe: +46 (0) 40 699 17 40

Americas: +1 614 861 1304. Press 3 for technical service or press 4 for sales support.

China: +86 (10) 8476 0106

A.1 ADB SAFEGATE website

The ADB SAFEGATE website, www.adbsafegate.com, offers information regarding our airport solutions, products, company, news, links, downloads, references, contacts and more.

A.2 Recycling

A.2.1 Local authority recycling

The disposal of ADB SAFEGATE products is to be made at an applicable collection point for the recycling of electrical and electronic equipment. The correct disposal of equipment prevents any potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling. The recycling of materials helps to conserve natural resources. For more detailed information about recycling of products, contact your local authority city office.

A.2.2 ADB SAFEGATE recycling

ADB SAFEGATE is fully committed to environmentally-conscious manufacturing with strict monitoring of our own processes as well as supplier components and sub-contractor operations. ADB SAFEGATE offers a recycling program for our products to all customers worldwide, whether or not the products were sold within the EU.

ADB SAFEGATE products and/or specific electrical and electronic component parts which are fully removed/separated from any customer equipment and returned will be accepted for our recycling program.

All items returned must be clearly labelled as follows:

- For *ROHS/WEEE* Recycling
- Sender contact information (Name, Business Address, Phone number).
- Main Unit Serial Number.

ADB SAFEGATE will continue to monitor and update according for any future requirements for *EU directives* as and when *EU member states* implement new *regulations* and or *amendments*. It is our aim to maintain our *compliance plan* and assist our customers.

Company Addresses

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