



IRTE, IRTM, IRTA Style 2, F-Range Series

Incandescent In-pavement, FAA L-850D/E Runway Threshold and Runway End Light, High-Intensity

Spare Parts List

SP_96A0308, Rev. 1.1.0, 2026-Sep-23



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 C22.2 No.180:13 (R2018) regulations. The CSA 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 below, 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 manufactured by ADB SAFEGATE 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 applicable sales agreement for a complete warranty description.

Replaced or repaired equipment under warranty falls into the warranty of the original delivery. No new warranty period is started for these replaced or repaired products.

FAA Certified products manufactured by ADB SAFEGATE

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 LED products (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). These FAA certified constant current (series) powered LED products must be installed, interfaced and powered with and through products certified under the FAA Airfield Lighting Equipment Program (ALECP) to be included in this 4 (four) year warranty. This includes, but is not limited to, interface with products such as Base Cans, Isolation Transformers, Connectors, Wiring, and Constant Current Regulators.



Note

See your sales order contract for a complete warranty description.

Replaced or repaired equipment under warranty falls into the warranty of the original delivery. No new warranty period is started for these replaced or repaired products.

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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This manual could contain technical inaccuracies or typographical errors. The author reserves the right to revise this manual from time to time in the contents thereof without obligation of the author to notify any person of such revision or change. Details and values given in this manual are average values and have been compiled with care. They are not binding, however, and the author disclaims any liability for damages or detriments suffered as a result of reliance on the information given herein or the use of products, processes or equipment to which this manual refers. No warranty is made that the use of the information or of the products, processes or equipment to which this manual refers will not infringe any third party's patents or rights. The information given does not release the buyer from making their own experiments and tests.

Table of Contents

1.0 Safety	1
1.1 Safety Messages	1
1.1.1 Introduction to Safety	2
1.1.2 Intended Use	2
1.1.3 Material Handling Precautions: Storage	3
2.0 Product Introduction	5
2.1 Incandescent In-pavement Runway Threshold/End Light	5
2.2 Incandescent In-pavement Runway Threshold/Military Approach Light	7
2.3 Incandescent In-pavement Runway Threshold/End Light	9
3.0 Parts	13
3.1 F-Range IRTE L-850D/E Parts List	14
3.2 F-Range Optical Support Assembly Parts List	19
3.3 IRTE Spare Parts	21
A.0 Support	23
A.1 ADB SAFEGATE Website	24
A.2 Recycling	25
A.2.1 Local Authority Recycling	25
A.2.2 ADB SAFEGATE Recycling	25

List of Figures

Figure 1: L850E..... 13

Figure 2: L850D 13

Figure 3: L850D Military / ICAO Style 2 14

Figure 4: F-Range L-850D Main Assembly Parts..... 14

Figure 5: F-Range L-850E Main Assembly Parts 15

Figure 6: Optical Support Assemblies 19

Figure 7: Optical Support Assembly - side view 20

1.0 Safety

Introduction to Safety

This section contains general safety instructions for installing and using ADB SAFEGATE 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 Safety Messages

HAZARD Icons used in this 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 symbols shown below.

	WARNING Failure to observe a warning may result in personal injury, death or equipment damage.
	DANGER – Risk of electrical shock or ARC FLASH 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.
	CAUTION Failure to observe a caution may result in equipment damage.
	ELECTROSTATIC SENSITIVE DEVICES This equipment may contain electrostatic devices.

Qualified Personnel

	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 practice.
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1.1.1 Introduction to Safety



CAUTION

Unsafe Equipment Use

This equipment may contain electrostatic devices, hazardous voltages and sharp edges on components

- 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 instructions can result in serious injury, death or equipment damage

Additional Reference Materials



Important Information

- IEC – International Standards and Conformity Assessment for all electrical, electronic and related technologies.
- IEC 60364 – Electrical Installations in Buildings.
- CSA – C22.2 No.180:13 (R2018), series isolating transformers for airport lighting.
- FAA Advisory: AC 150/5340-26 (current edition), Maintenance of Airport Visual Aid Facilities.
- Maintenance personnel must refer to the maintenance procedure described in the ICAO Airport Services Manual, Part 9.
- ANSI/NFPA 79, Electrical Standards for Metalworking Machine Tools.
- National and local electrical codes and standards.

1.1.2 Intended Use



CAUTION

Use this equipment as intended by the manufacturer

This equipment is designed to perform a specific function. Do not use this equipment for other purposes

Failure to follow this instruction can result in serious injury, death and / or property and equipment damage

1.1.3 Material Handling Precautions: Storage



CAUTION

Improper Storage

Store this equipment properly

- If equipment is to be stored prior to installation, it must be protected from the weather elements and kept free of condensation and dust.

Failure to follow this instruction can result in equipment damage

2.0 Product Introduction

This section describes the ADB SAFEGATE F-Range Type L-850D/E, Style 2 inset lights.

See [Section 3.1](#) for the L-850D inset light. See [Section 3.2](#) for the L-850E inset light. The 12-inch L-850D/E F-Range inset light fixtures are designed to mark the runway ends and threshold. The L-850D can be supplied as a bidirectional or unidirectional fixture, whereas the L-850E is supplied only as a unidirectional fixture. They are manufactured in accordance with FAA specification AC 150/5345-46, Style 2 (0.50 inches height above grade) and the photometric requirements of the latest edition of ICAO Annex 14.

2.1 Incandescent In-pavement Runway Threshold/End Light

Compliance with Standards

FAA:	L-850D AC 150/5345-46 (Current Edition). ETL Certified.
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Uses

FAA L-850D

- Runway displaced threshold light (unidirectional green, one 62 W lamp)
- Runway threshold/end (bidirectional red/ green: one 62 W lamp, green; two 62 W lamps, red)

Features

- FAA Style 2-Low protrusion above ground of ≤ 0.50 inch reduces vibrations caused by aircraft landing gear in both light fixture and landing gear, increasing lamp life
- Designed and built with simplicity and ease of maintenance in mind
- Light channel in front of prism windows protects prisms from damage and prevents rubber buildup thereby maintaining optimal light output
- Low-energy/long-life halogen lamps are 62 W with a rated life of 1,000 hours at 6.6 A
- Low-temperature lights. Temperature rise at center of top cover remains below FAA-specified limit of 320 °F (160 °C).
- Fixture uses aluminum alloy cover and inner cover, stainless steel hardware, and aluminum alloy and stainless steel optical assembly
- Includes a UL 467 rated ground lug, which accepts an AWG 6 earth ground wire

Ordering Code

44A6656 - X X X X

Threshold Beam

- 0 = Obscured
- 1 = Green Straight ²
- 2 = Green Right Toed
- 3 = Green Left Toed
- 4 = Red Straight ³
- 5 = Red Right Toed ²
- 6 = Red Left Toed ²

Runway End Beam

- 0 = Obscured
- 1 = Red Straight
- 2 = Red Right Toed ²
- 3 = Red Left Toed ²
- 4 = White Right Toed ^{1,2}
- 5 = White Left Toed ^{1,2}
- 6 = Yellow Right Toed ^{1,2}
- 7 = Yellow Left Toed ^{1,2}
- 8 = Yellow Straight ²
- 9 = White Straight ²

Film Disc Cutout

- 1 = Included
- 2 = Not Included

Base Mounting

- 1 = One Cord Set
- 2 = Two Cord Sets

Notes

- Fixtures manufactured after September 5, 2006, use one green 62 W lamp and two red 62 W lamps. For fixtures that use two green 105 W lamps and one red 105 W lamp, see IRTMdata sheet DS-2055.
- External fixture-to-base can O -ring, Part No. 7080.90.650, is ordered separately if needed for installation. For FAA installations, this O-ring is normally included with the flange ring.

¹ 3° toe -in for displaced threshold/runway edge applications

² Configuration not recognized by the FAA

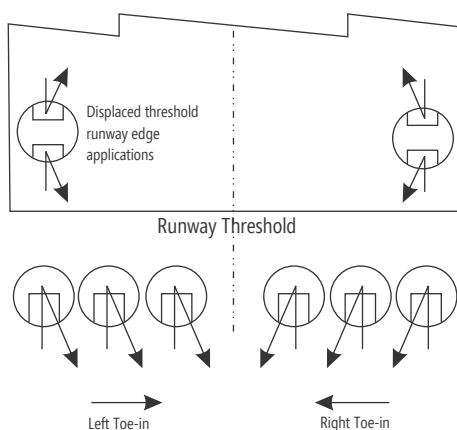
³ Not submitted to ETL for certification

Optional Snow Plow Ring

Depending on installation method and snow plowing technique used, a snow plow ring may be necessary. Snow plow rings are available for either standard or stainless steel adjustable Size B L-868 cans. Contact ADB SAFEGATE Sales for additional details.

Toe-in Coding Threshold Only

- Toe-in direction for green side is from the pilot's perspective on approach. Opposite side (runway end/red side) is straight.
- Position the fixtures on either side of the runway so that the fixture toe-in points to the runway centerline
- In a displaced threshold/runway edge application, the toe-in is always towards the runway centerline. When ordering always choose the same toe-in direction as the threshold beam. For example, if the threshold beam is toed right, the runway edge light is toed right.



Dimensions

Outside Diameter:	11.94 in / 30.33 cm
Bolt Circle Diameter (L-868B):	11.25 in / 28.58 cm
Max. Bottom Cover O.D.:	9.94 in / 25.25 cm
Bottom Cover Depth:	3.8 in / 9.65 cm ¹

Packaging

	Runway End	Threshold/End
In cardboard box:	7 × 13 × 13 in / 18 × 33 × 33 cm	7 × 13 × 13 in / 18 × 33 × 33 cm
Weight with packing:	15.3 lb / 6.94 kg	18.5 lb / 8.4 kg
Weight packing:	12.3 lb / 5.58 kg	15.5 lb / 7 kg

2.2 Incandescent In-pavement Runway Threshold/Military Approach Light

Compliance with Standards

FAA:	L-850E AC 150/5345-46 (Current Edition). ETL Certified.
Military:	Photometry complies with UFC 3-535-01 Fig 3-2.B (Approach White & Red) and Fig 4-5 (Threshold Green).

Uses

FAA L-850E

- Threshold lighting system, L-850E (2 green, 105 W lamps)

U.S. Military

- Military approach lighting system (2 white or 2 red, 105 W lamps)
- Military threshold system (2 green, 105 W lamps)

¹If used in conjunction with an L-868B Top Section, the overall height of the Top Section must be 4 in (10.16 cm) minimum.

Features

- FAA Style 2—Low protrusion above ground of ≤ 0.50 inch reduces vibrations caused by aircraft landing gear in both the light fixture and the landing gear, increasing lamp life
- Designed and built with simplicity and ease of maintenance in mind
- Light channel in front of prism windows protects prisms from damage and prevents rubber buildup thereby maintaining optimal light output
- Low-energy/long-life halogen lamps are 105 W with a rated life of 1,000 hours at 6.6 A
- Low-temperature lights. Temperature rise at center of top cover remains below FAA-specified limit of 320 °F (160 °C).
- Fixture uses aluminum alloy cover and inner cover, stainless steel hardware, and aluminum alloy and stainless steel optical assembly
- Includes a UL 467 rated ground lug, which accepts an AWG 6 earth ground wire

Optional Snow Plow Ring

Depending on installation method and snow plowing technique used, a snow plow ring may be necessary. Snow plow rings are available for either standard or stainless steel adjustable Size B L-868 cans. Contact ADB SAFEGATE Sales for additional details.

Ordering Code

44A6248 - X X X 0

Color

- 1 = FAAGreen (ETL Certified)
- 2 = Military White²
- 3 = Military Red²
- 4 = Military Green²

Film Disc Cutout

- 1 = Included
- 2 = Not Included

Light Beam

- 1 = Straight (ETL Certified)
- 2 = Right Toed²
- 3 = Left Toed²

Notes

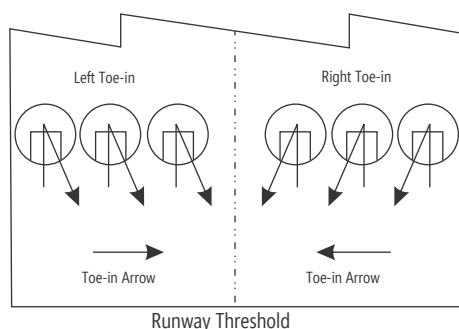
- External fixture-to-base can O -ring, Part No. 7080.90.650, is ordered separately if needed for installation. For FAA installations, this O-ring is normally included with the flange ring.

¹ Normally used on military applications

² Configuration not recognized by the FAA

Toe-in Coding

- Toe-in direction is from the pilot's perspective (the approach end of the runway)
- For more information about FAA-E-2968 Steady Burning, Semi-Flush, Approach Light for MALSR, Style II, unidirectional, green applications, see IAML data sheet DS-2029.



Dimensions

Outside Diameter:	11.94 in / 30.33 cm
Bolt Circle Diameter (L-868B):	11.25 in / 28.58 cm
Max. Bottom Cover O.D.:	9.94 in / 25.25 cm
Bottom Cover Depth:	3.8 in / 9.65 cm ¹

Packaging

In cardboard box:	7 × 13 × 13 in / 17.8 × 33 × 33 cm
Weight with packing:	18.5 lb / 8.4 kg
Weight without packing:	15.5 lb / 7 kg

2.3 Incandescent In-pavement Runway Threshold/End Light

Compliance with Standards

Military:	Designed according to L-850D AC 150/5345-46 (Current Edition) and photometry tested to UFC 3-535-01 Fig 4-5 (green) and Fig 4-10 (red).
ICAO:	Annex 14, Vol. 1, par 5.3.10.10 (Runway Threshold) and par 5.3.11 (Runway End).

Uses

ICAO and U.S. Military

- Runway end light (unidirectional red, one 105 W lamp)
- Runway threshold light (unidirectional green, two 105 W lamps)
- Runway threshold/end (bidirectional red/ green: one 105 W lamp, red; two 105 W lamps, green)

Features

- FAA Style 2—Low protrusion above ground of ≤ 0.50 inch reduces vibrations caused by aircraft landing gear in both the light fixture and the landing gear, increasing lamp life
- Designed and built with simplicity and ease of maintenance in mind
- Light channel in front of prism windows protects prisms from damage and prevents rubber buildup thereby maintaining optimal light output
- Low-energy/long-life halogen lamps are 105W with a rated life of 1,000 hours at 6.6 A
- Low-temperature lights. Temperature rise at center of top cover remains below FAA-specified limit of 320 °F (160 °C).
- Fixture uses aluminum alloy cover and inner cover, stainless steel hardware, and aluminum alloy and stainless steel optical assembly
- Includes a UL 467 rated ground lug, which accepts an AWG 6 earth ground wire

¹If used in conjunction with an L-868B Top Section, the overall height of the Top Section must be 4 in (10.16 cm) minimum.

Ordering Code

44A6247 - X X X X

Threshold Beam

- 0 = Obscured
- 1 = Green Straight
- 2 = Green Right Toed
- 3 = Green Left Toed
- 4 = Red Straight
- 5 = Red Right Toed
- 6 = Red Left Toed

Runway End Beam

- 0 = Obscured
- 1 = Red Straight
- 2 = Red Right Toed
- 3 = Red Left Toed
- 4 = White Right Toed¹
- 5 = White Left Toed¹
- 6 = Yellow Right Toed¹
- 7 = Yellow Left Toed¹
- 8 = Yellow Straight
- 9 = White Straight

Film Disc Cutout

- 1 = Included
- 2 = Not Included

Base Mounting

- 1 = One Cord Set
- 2 = Two Cord Sets

Notes

- External fixture-to-base can O-ring, Part No. 7080.90.650, is ordered separately if needed for installation. For FAA installations, this O-ring is normally included with the flange ring.

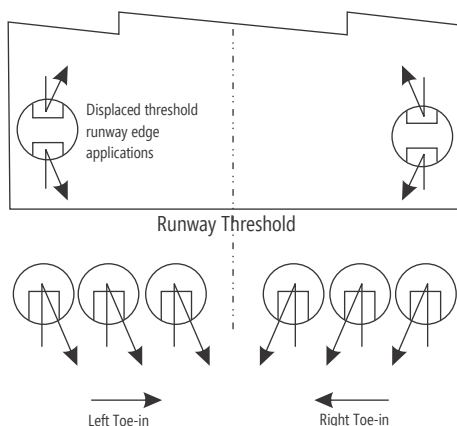
¹ 3° toe -in for high -intensity displaced threshold/runway edge applications.

Optional Snow Plow Ring

Depending on installation method and snow plowing technique used, a snow plow ring may be necessary. Snow plow rings are available for either standard or stainless steel adjustable Size B L-868 cans. Contact ADB SAFEGATE Sales for additional details.

Toe-in Coding Threshold/End Only

- Toe-in direction for green side is from the pilot's perspective on approach. Opposite side (runway end/red side) is straight.
- Position the fixtures on either side of the runway so that the fixture toe-in points to the runway centerline
- In a displaced threshold/runway edge application, the toe-in is always towards the runway centerline. When ordering always choose the same toe-in direction as the threshold beam. For example, if the threshold beam is toed right, the runway edge light is toed right.



Packaging

	Runway End	Threshold/End
In cardboard box:	7 × 13 × 13 in / 18 × 33 × 33 cm	7 × 13 × 13 in / 18 × 33 × 33 cm
Weight with packing:	15.3 lb / 6.94 kg	18.5 lb / 8.4 kg
Weight w/out packing:	12.3 lb / 5.58 kg	15.5 lb / 7 kg

3.0 Parts

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

Figure 1: L850E

Ordering Code	44A6248 - X X X 0
Color	
1 = FAAGreen (ETL Certified)	
2 = Military White ²	•
3 = Military Red ²	
4 = Military Green ²	
Film Disc Cutout	
1 = Included	•
2 = Not Included	
Light Beam	
1 = Straight (ETL Certified)	
2 = Right Toed ²	•
3 = Left Toed ²	
Notes	
External fixture-to-base can O -ring, Part No. 7080.90.650, is ordered separately if needed for installation. For FAA installations, this O-ring is normally included with the flange ring.	
¹ Normally used on military applications	
² Configuration not recognized by the FAA	

Figure 2: L850D

Ordering Code	44A6656 - X X X X
Threshold Beam	
0 = Obscured	
1 = Green Straight ²	
2 = Green Right Toed	•
3 = Green Left Toed	
4 = Red Straight ³	
5 = Red Right Toed ²	
6 = Red Left Toed ²	
Runway End Beam	
0 = Obscured	
1 = Red Straight	
2 = Red Right Toed ²	
3 = Red Left Toed ²	
4 = White Right Toed ^{1,2}	•
5 = White Left Toed ^{1,2}	
6 = Yellow Right Toed ^{1,2}	
7 = Yellow Left Toed ^{1,2}	
8 = Yellow Straight ²	
9 = White Straight ²	
Film Disc Cutout	
1 = Included	•
2 = Not Included	
Base Mounting	
1 = One Cord Set	•
2 = Two Cord Sets	
Notes	
- Fixtures manufactured after September 5, 2006, use one green 62 W lamp and two red 62 W lamps. For fixtures that use two green 105 W lamps and one red 105 W lamp, see IRTMdata sheet DS-2055. - External fixture-to-base can O -ring, Part No. 7080.90.650, is ordered separately if needed for installation. For FAA installations, this O-ring is normally included with the flange ring.	
¹ 3° toe -in for displaced threshold/runway edge applications	
² Configuration not recognized by the FAA	
³ Not submitted to ETL for certification	

Figure 3: L850D Military / ICAO Style 2

Ordering Code

Threshold Beam

- 0 = Obscured
- 1 = Green Straight
- 2 = Green Right Toed
- 3 = Green Left Toed
- 4 = Red Straight
- 5 = Red Right Toed
- 6 = Red Left Toed

Runway End Beam

- 0 = Obscured
- 1 = Red Straight
- 2 = Red Right Toed
- 3 = Red Left Toed
- 4 = White Right Toed¹
- 5 = White Left Toed¹
- 6 = Yellow Right Toed¹
- 7 = Yellow Left Toed¹
- 8 = Yellow Straight
- 9 = White Straight

Film Disc Cutout

- 1 = Included
- 2 = Not Included

Base Mounting

- 1 = One Cord Set
- 2 = Two Cord Sets

44A6247 - X X X X

Notes

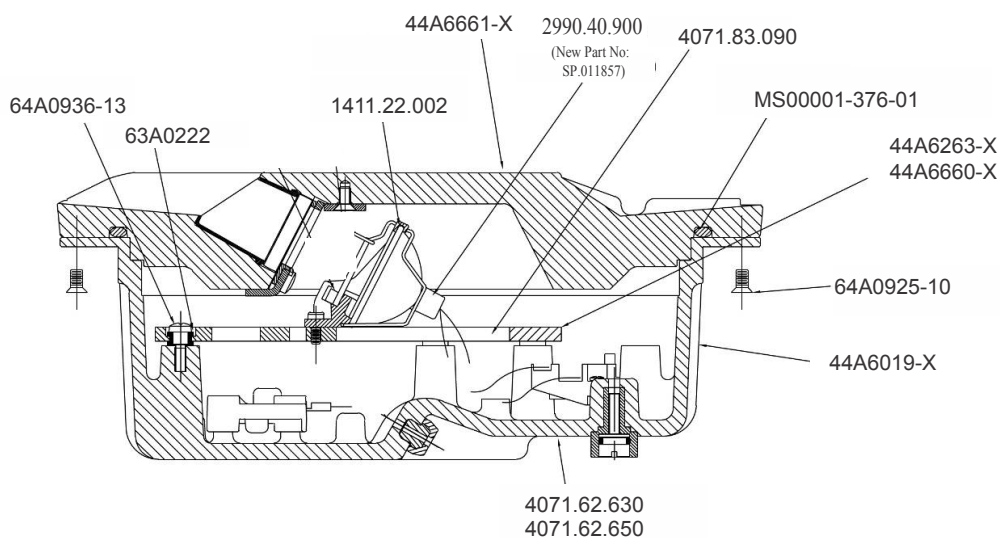
- External fixture-to-base can O-ring, Part No. 7080.90.650, is ordered separately if needed for installation. For FAA installations, this O-ring is normally included with the flange ring.

- ¹ 3° toe-in for high-intensity displaced threshold/runway edge applications.

3.1 F-Range IRTE L-850D/E Parts List

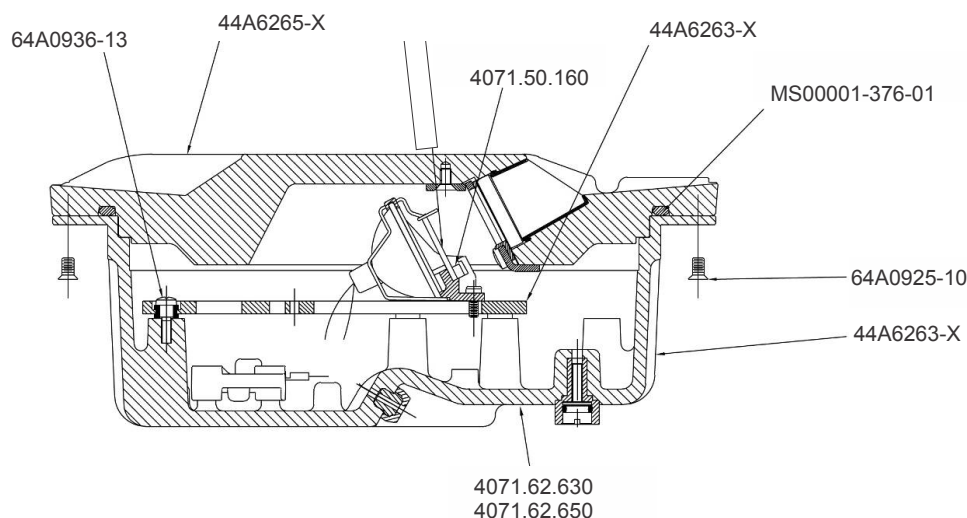
See [Figure 4](#) and [Figure 5](#).

Figure 4: F-Range L-850D Main Assembly Parts



NOTE: for dash X numbers and complete description see parts list

Figure 5: F-Range L-850E Main Assembly Parts



NOTE: for dash X numbers and complete description see parts list

Part Number		Description	Quantity	Note
Top cover assembly – FAA L-850D (2 red/1green)			1	
44A6661-2		Top cover assembly, runway end		
44A6661-3		Top cover assembly, runway end / threshold		
Top cover assembly – Military L-850D (1 red/2green)			1	
44A6264-2		Top cover assembly, runway end		
44A6262-3		Top cover assembly, runway end /threshold		
Top cover assembly – FAA L-850E (2 green)			1	
44A6265-1		Top cover assembly, threshold end		
Top cover assembly – Military L-850E			1	
44A6265-2		Top cover assembly, threshold end (red/clear only)		
Optical support assembly – FAA L-850D			1	
44A6660-5		Optical support assembly, runway end, straight, threshold toed left		
44A6660-6		Optical support assembly, runway end, toed left, threshold straight		
44A6660-7		Optical support assembly, runway end toed right, threshold straight		
44A6660-8		Optical support assembly, runway end straight, threshold straight		
44A6660-9		Optical support assembly, runway end toed left, threshold straight		
44A6660-10		Optical support assembly, runway end obscured, threshold toed right		

Part Number		Description	Quantity	Note
44A6660-11		Optical support assembly, runway end obscured, threshold Straight		
44A6660-12		Optical support assembly, runway end obscured, threshold toed left		
Optical support assembly - FAA L-850E			1	
44A6263-11		Optical support assembly, runway end obscured, threshold only straight, L-850E		
44A6263-12		Optical support assembly, runway end obscured, threshold only left, L- 850E		
Optical support assembly - Military L850D			1	
44A6263-1		Optical support assembly, threshold toed right runway end toed right		
44A6263-2		Optical support assembly, threshold straight, runway end toed right		
44A6263-5		Optical support assembly, threshold straight, runway end toed left		
44A6263-6		Optical support assembly, threshold toed left, runway end toed left		
44A6263-7		Optical support assembly, threshold toed right, runway end straight		
44A6263-8		Optical support assembly, threshold straight, runway end straight		
44A6263-9		Optical support assembly, threshold toed left, runway end straight		
44A6263-13		Optical support assembly, threshold obscured, runway end		
44A6263-14		Optical support assembly, threshold obscured, runway end straight		
44A6263-15		Optical support assembly, threshold obscured, runway end toed left		
Inner pan assembly - FAA L-850D			1	
44A6019-9		Inner pan assembly, runway & threshold, 1 cordset, without film disc cutout		
44A6019-10		Inner pan assembly, runway & threshold, 1 cordset, with film disc cutout		
44A6019-11		Inner pan assembly, runway & threshold, 2 cordsets, without film disc cutout		
44A6019-12		Inner pan assembly, runway & threshold, 2 cordsets, with film disc cutout		
Inner pan assembly - FAA L-850E			1	
44A6019-13		Inner pan assembly, runway & threshold, 1 cordset, without film disc cutout		
44A6019-14		Inner pan assembly, runway & threshold, 1 cordset, with film disc cutout		

Part Number		Description	Quantity	Note
Inner pan assembly – Military L-850D			1	
44A6019-9		Inner pan assembly, runway & threshold, 1 cordset, without film disc cutout		
44A6019-10		Inner pan assembly, runway & threshold, 1 cordset, with film disc cutout		
44A6019-11		Inner pan assembly, runway & threshold, 2 cordsets, without film disc cutout		
44A6019-12		Inner pan assembly, runway & threshold, 2 cordsets, with film disc cutout		
44A6019-15		Inner pan assembly, runway only, without film disc cutout		
44A6019-16		Inner pan assembly, runway only, with film disc cutout		
Terminal block assembly – L850D/E			See note.	A
44A6112-1		Terminal block assembly, without film disc cutout		
44A6112-2		Terminal block assembly, with film disc cutout		
47A0118		Film disc cutout	See note.	A
48A0386		Lamp, 62W/6.6A, MR16 (FAA L-850D)		
60A2602		Pressure release screw	1	
63A0222		Grommet (for optical bracket)	3	
1428.00.290		Yellow Dichroic Prism	See note.	B
63A0986		Flat seal	See note.	A
63A0993-2		Prism – Clear (White)	See note.	A
1428.00.270		Red Dichroic Prism		C
1428.00.280	SP.010568	Green Dichroic Prism		D
63B0267-011		O-ring, pressure screw	1	
NOTE A: Quantity is 1 for L-850D Runway end only; 3 for L-850D Runway & Threshold; 2 for L-850E.				
NOTE B: Quantity is 1 for the yellow lens; The white optical support system has no filter.				
NOTE C: Quantity is 2 for FAA L-850D (after 9/1/06); Quantity is 1 for FAA L-850D (before 9/1/06)				
NOTE D: Quantity is 1 for FAA L-850D (after 9/1/06); Quantity is 2 for FAA L-850D (before 9/1/06)				

Part No	New Part No	Description	Quantity	Note
73A0133-31		Cordset	See note.	A
1411.22.002		Lamp holder assembly	See note.	B
2990.40.900	SP.011857	Lamp, 105 W/6.6A/MR16 (L850D Military and L850E)	See note.	B
4017.50.130		Film disc cutout clip	See note.	B
4071.50.030	SP.011935	Prism gasket sleeve	See note.	B
4071.50.052		Prism keeper plate	See note.	B
4071.50.090		Wire clamp (for cordset)	See note.	A

Part No	New Part No	Description	Quantity	Note
4017.50.360		Prism clamp	See note.	B
4071.62.240		Top cover, FTE, L-850D (Not for Military Application)	1	
4071.62.250		Top cover, FEN, L-850D (FAA and Military Application)	1	
4071.62.260		Top cover, FTH, L-850E	1	
4071.62.630		Inner cover (one cordset application)	1	D
4071.62.650		Inner cover (two cordsets application)	1	D
4071.83.090		Optical bracket	1	
6111.87.140		Female cordset terminal (for inner pan terminal block)	See note.	B
63A1014		Grommets (for cordset)	See note.	A
MS00001-376-01		O-ring (for top cover)	1	
NOTE A: Quantity is 1 for unidirectional, 2 for bidirectional. NOTE B: Quantity is 1 for Military L-850D Runway end only; 2 for L-850E; 3 for L-850D Runway & Threshold. NOTE C: Quantity is 1 for the yellow lens; 2 for red/green lens. The white optical support system has no filter or spring. NOTE D: Inner cover does not include cordset.				

3.2 F-Range Optical Support Assembly Parts List

Figure 6: Optical Support Assemblies

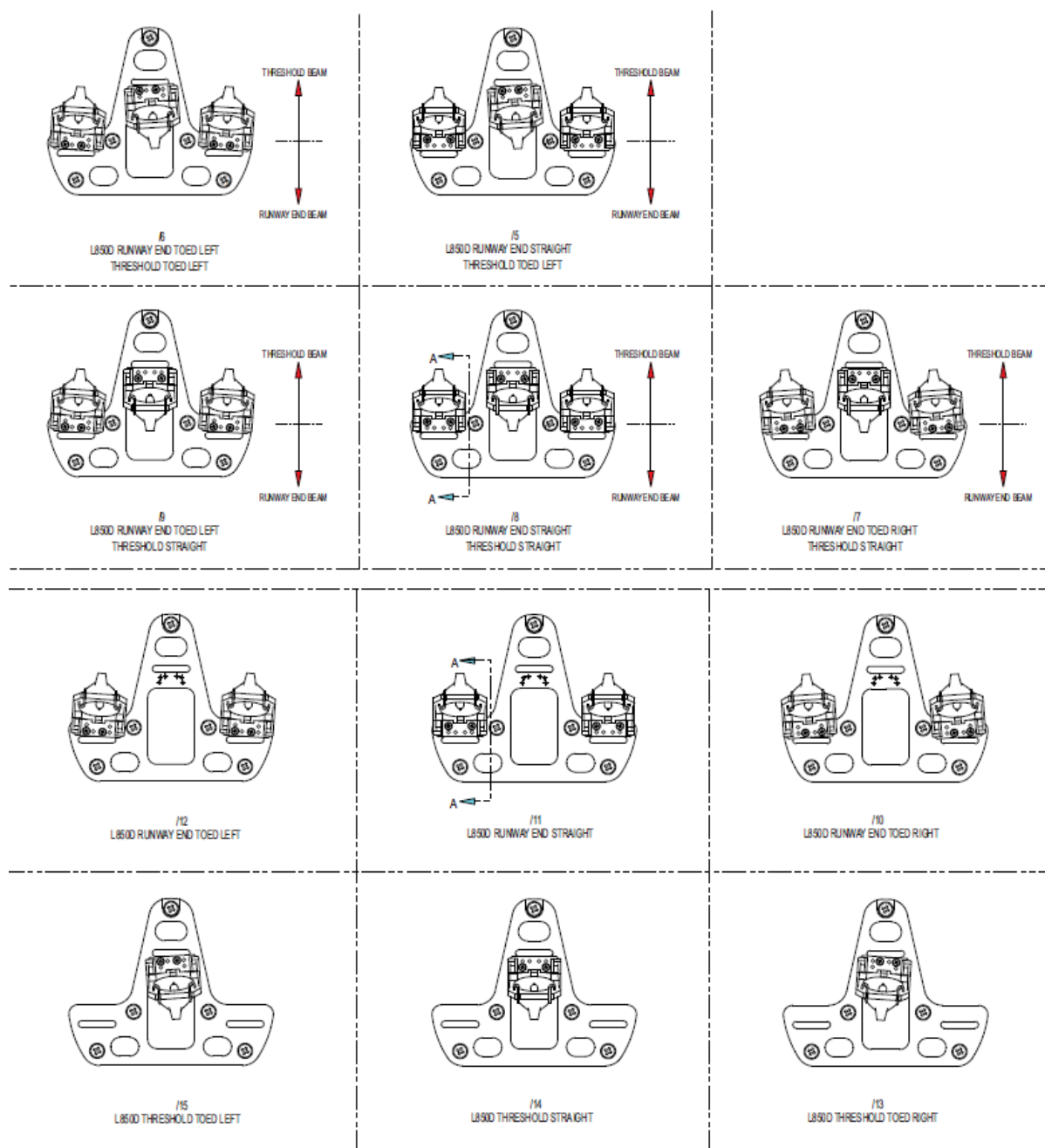
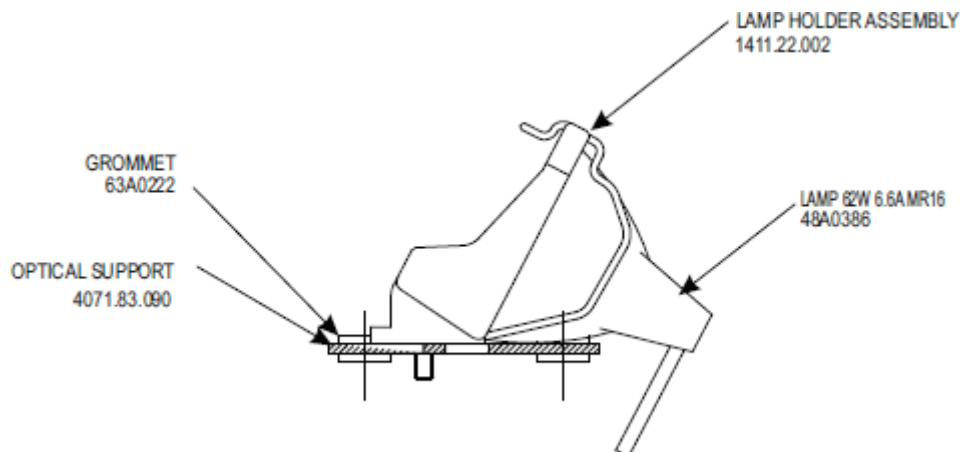


Figure 7: Optical Support Assembly - side view



Part Number	Description	Quantity	Note
Optical Support Assembly – FAA L-850D		1	
44A6660-5	Optical support assembly, runway end, straight, threshold toed left		
44A6660-6	Optical support assembly, runway end, toed left, threshold straight		
44A6660-7	Optical support assembly, runway end toed right, threshold straight		
44A6660-8	Optical support assembly, runway end straight, threshold straight		
44A6660-9	Optical support assembly, runway end toed left, threshold straight		
44A6660-10	Optical support assembly, runway end obscured, Threshold toed right		
44A6660-11	Optical support assembly, runway end obscured, Threshold Straight		
44A6660-12	Optical support assembly, runway end obscured, threshold toed left		
	Optical Support Assembly – L-850E	1	
44A6263-11	Optical support assembly, runway end obscured, threshold only straight (L-850E)		
44A6263-12	Optical support assembly, runway end obscured, threshold only left (L-850E)		
	Optical Support Assembly – Military L-850D	1	

Part Number	Description	Quantity	Note
44A6263-1	Optical support assembly, threshold toed right runway end toed right		
44A6263-2	Optical support assembly, threshold straight, runway end toed right		
44A6263-5	Optical support assembly, threshold straight, runway end toed left		
44A6263-6	Optical support assembly, threshold toed left, runway end toed left		
44A6263-7	Optical support assembly, threshold toed right, runway end straight		
44A6263-8	Optical support assembly, threshold straight, runway end straight		
44A6263-9	Optical support assembly, threshold toed left, runway end straight		
44A6263-13	Optical support assembly, threshold obscured, runway end		
44A6263-14	Optical support assembly, threshold obscured, runway end straight		
44A6263-15	Optical support assembly, threshold obscured, runway end toed left		
4071.83.090	Optical bracket	1	
63A0222	Grommet (for optical bracket)	5	
1411.22.002	Lamp holder assembly	See note.	A
48A0386	Lamp, 62W/6.6A/MR16 (FAA L850D)	See note.	A
NOTE A: Quantity is 2 for FAA L-850D Runway end only; 1 for FAA L-850D Threshold only; 2 for L-850E; 3 for FAA L-850D Runway & Threshold.			

3.3 IRTE Spare Parts

See L-850D [Figure 4](#) and L-850E [Figure 5](#).

Part No	New Part No	Description
44A6660-X		Optical support assembly – FAA L-850D
44A6263-X		Optical support assembly – Military L-850D and L-850E
44A6112-1		Terminal block assembly, without film disc cutout
44A6112-2		Terminal block assembly, with film disc cutout

Part No	New Part No	Description
48A0386		Lamp, 62W/6.6A, MR16 (FAA L-850D)
60A2602		Pressure release screw
4071.83.090		Optical bracket
63A0222		Grommet (for optical bracket)
1428.00.290		Yellow Dichroic Prism , L-850D only
63A0993-2		Prism
1428.00.270		Prism – Red Dichroic
1428.00.280	SP.010568	Prism – Green Dichroic
63B0267-011		O-ring, pressure screw
67A0095		Lubricate
73A0133-31		Cordset
1411.22.002		Lamp holder assembly
2990.40.900	SP.011857	Lamp, 105 W (L850D Military and L850E)
4071.50.030	SP.011935	Prism gasket sleeve
4071.50.052		Prism keeper plate
4071.50.090		Wire clamp (for cordset)
4071.62.240		Top cover, FTE, L-850D
4071.62.250		Top cover, FEN, L-850D
4071.62.260		Top cover, FTH, L-850E
4071.62.630		Inner cover (one cordset application)
		 Note Inner cover does not include cordset.
4071.62.650		Inner cover (two cordsets application)
		 Note Inner cover does not include cordset.
6111.87.140		Female cordset terminal (for inner pan terminal block)
63A1014		Grommets (for cordset)
MS00001-376-01		O-ring (for top cover)

Appendix A: Support

Your airport needs fast, reliable support when technical issues affect operations. ADB SAFEGATE provides 24/7 phone support by experienced technical service and support teams to help you troubleshoot issues and reduce disruption.

For general product information, solutions and more, visit the ADB SAFEGATE website, www.adbsafegate.com.

Global Technical Service & Support

For support in Europe, the Middle East, Africa and Asia Pacific, contact ADB SAFEGATE's technical support specialists. Trained in all areas of system issues, troubleshooting, quality control and technical assistance, our highly experienced Technical support specialists offers 24/7 phone support.

- Europe: **+32-2-722-17-11**
- China: **+86-10-8476-0106**
- Middle East and Africa: **+971-4-452-7575**

Live Technical Support – Americas

For support in the Americas, contact ADB SAFEGATE's U.S.-based technical support specialists. The team provides support for airfield lighting products, power and control systems, weather systems, and Safedock A-VDGS.

Phone support is available 24/7.

- United States: **+1-800-545-4157**
- Canada: **+1-905-631-1597**

You can also reach the Americas support team by email during regular business hours:

- Airfield Technical Service: techservice.us@adbsafegate.com
- Apron (previously Gate) Technical Service: gateservice.us@adbsafegate.com
- Weather Customer Service: CustomerServiceWeather@adbsafegate.com

Before You Call

Help us resolve your issue faster by having the right information ready before you contact Technical Support.

For Airfield Lighting, Control Systems, and Weather Product Issues

Please review the following before calling:

- Review the product manual and troubleshooting guide.
- Be near the product and ready to troubleshoot.
- Have a True RMS Multimeter available, along with any other necessary tools.
- Have the following information ready:
 - Airport code
 - Company name, phone number, and email address
 - Product number or part number, if available

For Safedock A-VDGS Issues

Please collect the following information before calling:

- Gate number
- Flight number
- Aircraft type
- Time of the event
- Description of the issue
- Any actions already taken to resolve the issue
- CCTV footage of the incident, if available, to help align the event with the Safedock log file

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 European Union (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 labeled as follows:

- For Restriction of Hazardous Substances (*RoHS*)/Waste Electrical and Electronic Equipment (*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.

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