



ADB 
Airfield Solutions

Instruction Manual

Field Installation of Insect Boot on ETEL and ETES Elevated Fixtures

ALN129, Rev. C, 2/17/16

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 per FAA EB67 (applicable edition).

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.

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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.

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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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TABLE OF CONTENTS

A.0	Disclaimer / Standard Warranty	ii
A.1	CE certification	ii
A.2	ETL certification	ii
A.3	LED Product Guarantee	ii
A.4	Standard Product Guarantee	ii
A.5	All Products	ii
A.6	Liability	iii
A.7	© ADB BVBA	iv
1.0	Insect Boot	1
1.1	About this manual	1
1.1.1	Introduction	1
1.1.2	How to work with the manual	1
1.1.3	Record of changes	1
1.2	Product Introduction	2
1.2.1	Special Tools and Equipment Required	2
1.2.2	General Instructions	2
1.2.3	Installing Insect Boot	2

1.0 Insect Boot

Description: Provides information on the field installation of insect boot on ETEL and ETES elevated fixtures.

1.1 About this manual

1.1.1 Introduction

The manual shows the information necessary to:

- Install of the insect boot on ETEL and ETES elevated fixtures.

1.1.2 How to work with the manual

1. Become familiar with the structure and content.
2. Carry out the actions completely and in the given sequence.

1.1.3 Record of changes

Page	Rev	Description	Date
All	B	Released Manual	1/10/14
All	C		2/16/16

Product Introduction

1.2 Product Introduction

This service bulletin provides instructions to install an Insect Boot on the ADB ETEL and ETES Elevated Fixture Assembly. The boot prevents insects (e.g. fire ants, etc.) from entering the inside of the fixture at the interface between the column and the fixture housing. The installed boot is flexible and continues to allow the upper assembly to be leveled as necessary without compromising the sealing of the boot.

1.2.1 Special Tools and Equipment Required

Refer to Tables 1 and 2 for the tools and equipment required to install insect boot.

Table 1: Required Equipment Supplied

Description	Part Number	Quantity
Service Bulletin	ALN129	1
Insect Boot	63A1032	1 per

Table 2: Required Equipment Not Supplied

Description	Quantity
Necessary tools to remove light fixture from light base	A/R
7/16 socket w/ratchet	1
Tube of RTV Silicone Adhesive Sealant	AR

1.2.2 General Instructions

Field installation of the insect boot involves removing the elevated assembly from the baseplate or other mounting device, removing the column, and installing the insect boot and then reassembling and remounting the fixture.

1.2.3 Installing Insect Boot

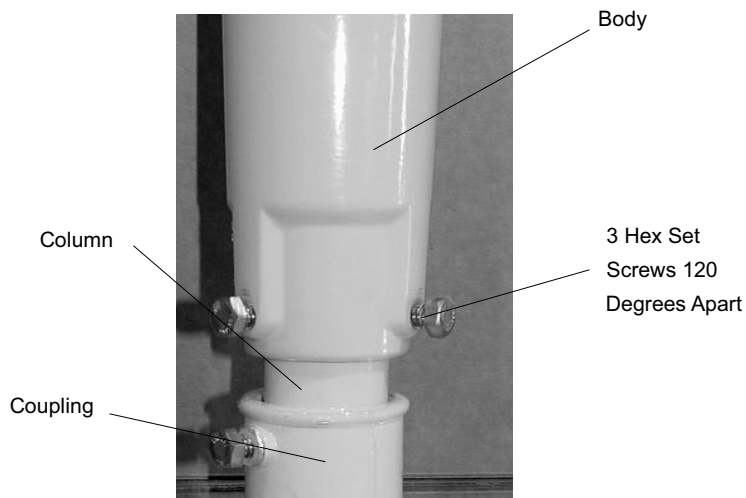
WARNING: Read and understand the following instructions before attempting to remove the elevated fixture to install the insect boot.

WARNING: Danger High Voltage. Disconnect the field circuit from the fixture being worked on. Failure to observe this warning may result in personal injury, death, or equipment damage.

Proceed as follows to install the insect boot:

1. Disconnect the field circuit.
2. Loosen all three ¼-20 hex head set screws found on the side of the elevated light body so that the body can be removed from the column. DO NOT remove the body from the column at this time. See Fig 1 below.

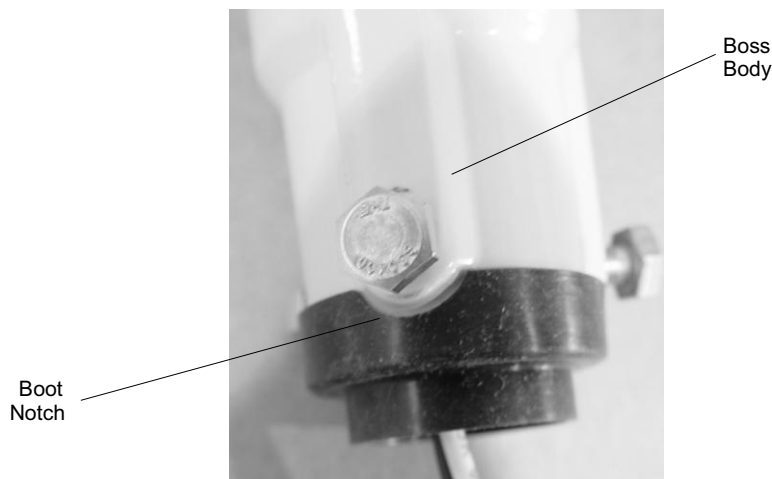
Figure 1: Figure 1 Assembly Components



3. Use wrench to loosen and remove the frangible coupling from the baseplate. NOTE: Since the 3 column screws are loose, the coupling and the column will rotate together without twisting the L-823 cordset leads.
4. Lift entire assembly up and away from the baseplate so that the L-823 plug can be disconnected from the secondary receptacle.

5. Lift and remove the body assembly off of the column and pull the attached L-823 cordset through the coupling and column.
6. Slip the cordset through the Insect Boot and slide the boot onto the bottom of the housing. Align the 3 notches in the boot with the three bosses located on the outside of the body. See Figure 2 below.

Figure 2: Figure 2 Installation of Boot on Body



7. After boot has been properly seated on the housing, slip the column and coupling over the cordset and insert the column into the bottom of the boot. See Figure 3.

Figure 3: Figure 3 Installed Insect Boot



NOTE: The distance between the bottom of the boot and the frangible coupling will vary depending upon the length of the column supplied with the elevated assembly. The shortest column is shown.

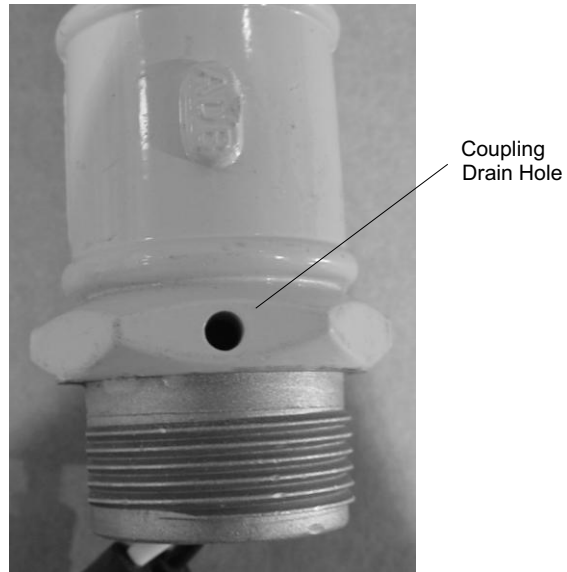
NOTE: The column rests and seals against a shoulder inside of the coupling preventing insect entrance. A small bead of RTV can be added around the circumference of the column where the column enters the coupling to prevent insect penetration into the small gap between the two mating parts.

8. Finger tighten one of the body set screws against the column to hold the assembly together while placing the assembly over the baseplate.

Product Introduction

9. Plug the fixture L-823 cordset into the secondary of the transformer and then position the coupling over the threaded hub in the baseplate. Loosen the hand tightened set screw(s) in the body so that the coupling can be screwed back into the baseplate hub.
10. After the coupling has been installed, level the elevated assembly as required and then tighten all 3 set screws against the column in the body.
11. Inject a small amount of RTV in the drain hole found on the side of one of the coupling hex faces. See Figure 4.

Figure 4: Figure 4 Coupling Drain Hole



12. After all boots have been installed and all drain holes have been plugged, the fixtures are ready to be returned to service. Re-energize the field circuit.



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