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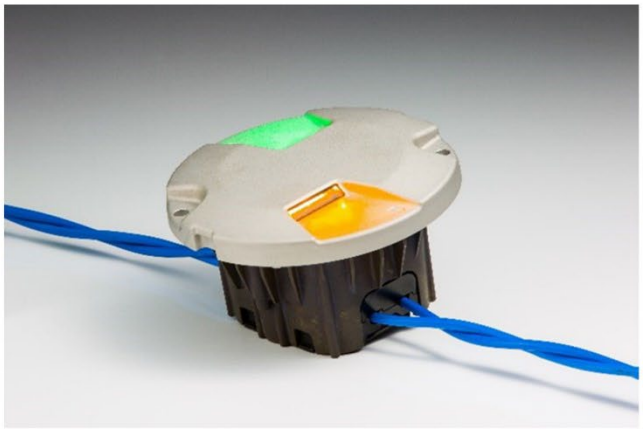

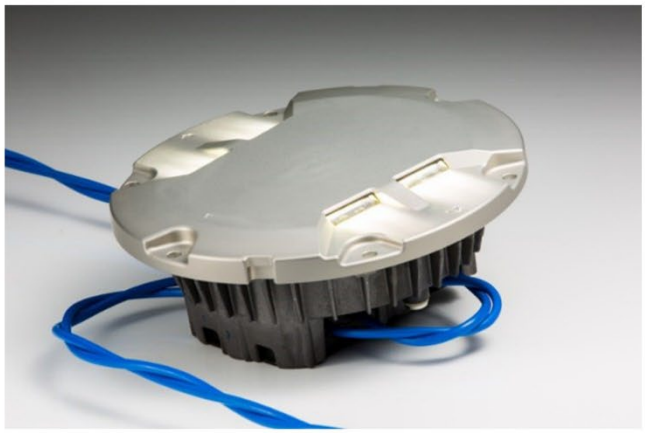

Installation and Maintenance Manual

Inset Fixtures 8”and 12”

CEDD® AGL
Airfield Ground Lighting

03-70025
V1.3

Preface

- Please read carefully and understand the contents of this manual.
- Failure to read the manual may result in serious injury, or serious damage to equipment.
- Make sure these instructions are always accessible for all users and ensure that you have read and understood the contents.

Document Information

Name : **05_CEDD_Inset_Fixtures_ Installation_and_Maintenance_Manual_03-70025**

Version	Date	Description
V1.3	05.03.2026	Updated for FAA compliance, added spare parts list, updated maintenance recommendations

For the latest version of this document see https://www.tkh-airportsolutions.com/airfield-products/ or scan:

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1. About this manual

This manual contains information about the installation, de-installation, maintenance and troubleshooting of the CEDD Inset Fixtures. This manual also contains guidance for taking the product out of service and its safe disposal.

1.1 Symbols used

The following marking conventions are used in this manual to draw attention to specific topics or actions:

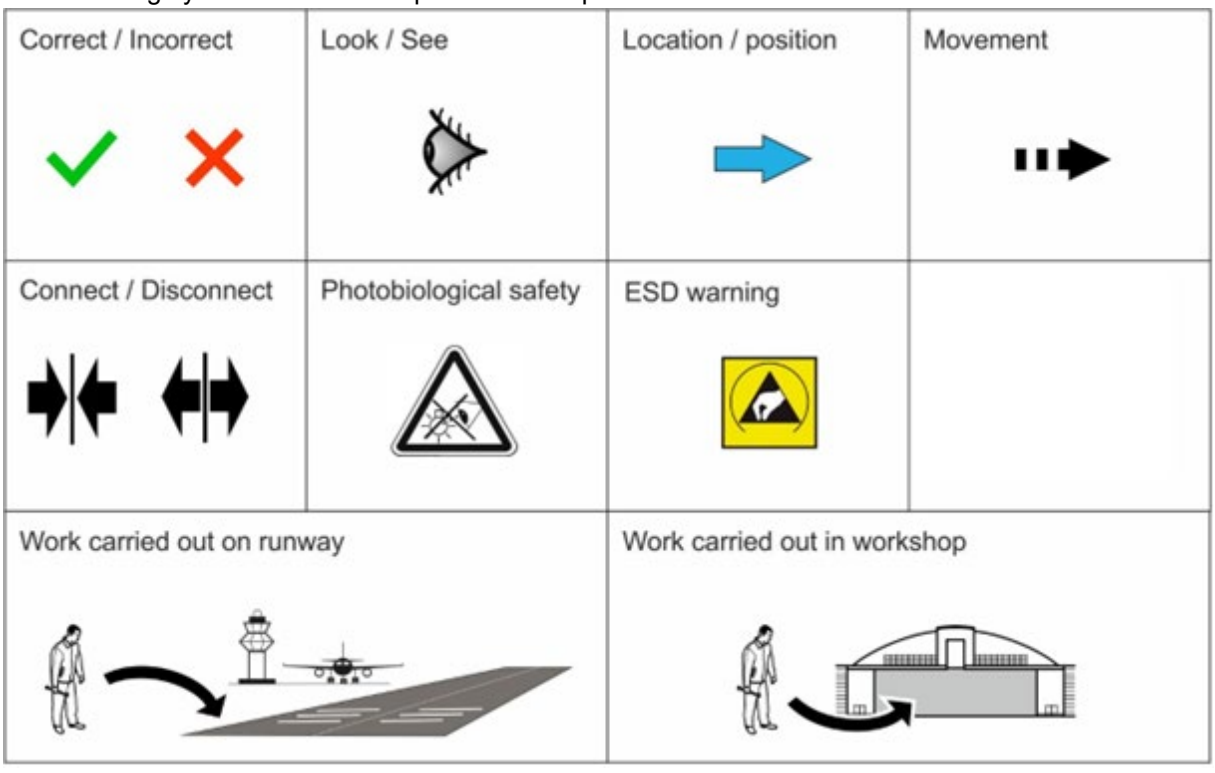
DANGER! - This sign indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING - This sign indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION - This sign indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE - is used in this manual to indicate a situation that could result in damage to property or equipment.

The following symbols are used in pictures for explanation or an action:



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The following symbols are used on equipment and in this manual to warn of potential hazards:

DANGER of electrical shock or arc flash. Failure to observe this warning will result in serious injury or death.

WARNING or **CAUTION**: where this symbol is used on the equipment, it is mandatory to consult the manual to find out the nature of potential hazards and any actions which have to be taken to avoid them.

1.2 Storing the manual

- This manual is a part of your product. Store the manual in a location that can be easily accessed by personnel working on the product.
- It is the responsibility of the company operating this equipment to ensure that its personnel is provided with a copy of this manual.

1.3 Limitations of the Document

TKH Airport Solutions reserves the right to revise this document without notification.

The data provided in this document is based on the most recent information at the time of publication. TKH Airport Solutions is continually seeking to ensure that its products are developed to the latest technological standards. As a result, it is possible that there may be some differences between the product and the information in this manual.

For further information regarding adjustment, maintenance or repair which is not described in this document, please contact the Customer Service department of TKH Airport Solutions.

Details and values given in this manual are examples only, and should not be taken as actual values. TKH Airport Solutions disclaims any liability for damage or detriment suffered as a result of reliance on these example values.

The information in this document concentrates solely on use of the products as intended by the manufacturer.

This document contains useful and important information on the correct installation and maintenance of the product. Furthermore, this document may contain instructions for preventing possible accidents and serious harm while the product is in use. We have taken all possible steps to make this document as correct and as complete as possible. Should you discover any errors or omissions, please bring this to the attention of TKH Airport Solutions, so that we can make amendments. This will enable us to improve our documentation.

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1.4 Terms and Abbreviations

This document may include the terms and abbreviations as listed below.

AGL	Airfield Ground Lighting
BUID	Basestation Unique Identification
CEDD®	Contactless Energy and Data Distribution
EASA	European Aviation Safety Agency
FAA	Federal Aviation Administration
Frangible	Easily breakable
HIRE	High Intensity Runway Edge
HPS	High Power System
ICAO	International Civil Aviation Organization
IEC	International Electrotechnical Committee
LED	Light Emitting Diode
NUID	Node Unique Identification

1.5 Trademarks

CEDD® is a registered trademark of USE System Engineering Holding B.V. in the European Union. Other product names mentioned may be trademarks of TKH Airport Solutions B.V., USE System Engineering Holding B.V., or their affiliated companies.

1.6 Liability and Warranty

TKH Airport Solutions cannot be held responsible for injuries or damage resulting from non-standard, unintended use, faulty or improper installation of its equipment, or failure to follow the instructions and safety guidelines in this manual. The safety of any system incorporating the CEDD Inset Fixtures is the responsibility of any site installation, commissioning, maintenance, and operational personnel using the system.

NOTICE

Disregarding the safety instructions in this manual will result in the loss of warranty in case of damage.

Refer to the general TKH Airport Solutions Terms and Conditions document supplied with your sales order contract for a complete liability and warranty description.

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1.7 Component Reuse and Recycling

Extending the service life of components typically requires significantly less energy than manufacturing equivalent new parts. As a result, prioritizing re-use can help lower lifecycle greenhouse gas emissions by avoiding energy- and carbon-intensive primary production.

Our products are engineered to support component re-use and recycling to reduce waste and conserve resources throughout its lifecycle. Key design and end-of-life considerations include:

- **Design for re-use**: Components are intended to be recoverable and suitable for re-use where appropriate, helping retain material value and reduce replacement demand.
- **Design for recycling**: Material selection and product documentation are aligned to enable efficient separation and recycling at end of life, supporting higher recovery rates and better material quality.
- **Reduced disposal impacts**: Proper recycling and re-use reduce disposal volumes and the corresponding environmental impacts.
- **Lower demand for virgin materials**: By increasing re-use and recycling, lifecycle impacts can be reduced through decreased reliance on virgin raw materials and minimized end-of-life burdens.

By enabling practical re-use and recycling pathways, our products support progress toward internal sustainability targets and helps customers meet ESG expectations related to waste reduction, resource efficiency, and circular economy performance.

1.8 Manufacturer Details

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For service requests, please contact the TKH Airport Solutions Customer Service department:

- Email: service@tkhairportsolutions.com

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2. Safety

When performing installation, maintenance or service activities, always carry out these activities with the greatest caution to avoid injuries or damage to the CEDD Inset Fixtures. All activities may only be performed by qualified and authorized personnel (see below). It is the responsibility of those in charge of preparing and/or supervising such work to take the necessary actions to ensure safe working conditions.

Always work safely and comply with procedures, regulations and local standards. If any of the warnings or safety requirements in this document are in conflict with existing local regulations, then the strictest regulation must take precedence.

Thoroughly read and observe all safety instructions in this document.

Switch the main power off at the CEDD HPS Basestation when any installation, maintenance or replacement is done on the CEDD Inset Fixtures. Or use a Break Out Box to ensure power is off at the CEDD system.

Disregarding the safety instructions in this manual could result in serious injury or death.

2.1 Qualified Personnel

Only qualified and authorized personnel are allowed to install, operate or maintain this equipment.

The term ‘qualified personnel’ is defined here as individuals who thoroughly understand the equipment and its safe installation, operation or maintenance. Qualified personnel are physically capable of performing the required tasks, are familiar with all relevant and local safety rules and regulations, and have been trained to safely install, operate or maintain the equipment. It is the responsibility of the company installing, operating or maintaining this equipment to ensure that its personnel meet these requirements.

2.2 Intended Use

The CEDD Inset Fixtures are designed and intended only for the purpose of Airfield Ground Lighting (AGL) at airfields and airports as described in this manual. Intended use also includes the observance of all procedures, inspection and maintenance instructions described in this manual.

Any other usage that is not described in this manual is considered unintended use. Unintended use includes but is not limited to the following actions:

- allowing unskilled personnel to perform any task on or with the equipment
- making changes to the equipment that have not been recommended or described in this manual or using parts that are not approved by TKH Airport Solutions.
- using materials or auxiliary equipment that are inappropriate or incompatible with TKH Airport Solutions equipment.
- failing to make sure that auxiliary equipment complies with approval agency requirements, local codes, and all applicable safety standards, provided that they are not in violation of national regulations.

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Using this equipment in ways other than described in the manual could result in serious injury or death and/or material damage.

The CEDD Inset Fixtures may only be used with CEDD system components approved by TKH Airport Solutions:

- CEDD Cable
- CEDD HPS Terminator
- CEDD HPS Basestation
- CEDD Master CMS
- CEDD Master AM

It is not allowed to connect the CEDD Fixtures to components other than approved CEDD components.

2.3 General safety rules

Become familiar with the general safety instructions in this section of the manual before installing, operating, maintaining or repairing this equipment.

- Make this manual available to personnel installing, operating, or maintaining this equipment.
- Only qualified personnel are allowed to install, operate or maintain this equipment (see Qualified Personnel on page 9).
- Always use the required personal protective equipment (PPE).
- Never look directly in the light source while the fixture is switched on.
- Always follow safe electrical work practices.
- Follow all applicable safety procedures required by your company, industry standards and government or other regulatory agencies.
- Read all system component manuals before operating this equipment. A thorough understanding of system components and their operation will help you to operate the system safely and efficiently.
- Do not deactivate or bypass automatic safety interlocks or locked-out electrical disconnects.
- Protect equipment with safety devices as specified by applicable safety regulations.
- Use this equipment only in the environments for which it is rated.
- Never operate equipment with a known malfunction. If a malfunction occurs, turn the equipment OFF immediately.
- In any of the following cases the equipment must be taken out of service and locked away from unauthorized use. This is necessary:
    - If the housing or the electrical wiring is visibly damaged
    - If the housing or the electrical wiring has loose parts
    - If the equipment malfunctions
    - After excessive transportation stress (for example in damaged or defective packaging)

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2.4 Electrical hazards

The CEDD AGL system components (e.g. CEDD cable, CEDD Fixtures, and CEDD HPS Terminator) should not be touched or worked on if the CEDD AGL system is operational (meaning constant current AGL series circuit energized). The constant current AGL series circuit must be de-energized before any (maintenance/service) work on the CEDD AGL system and its components can start. Before any work can start the CEDD HPS Basestation must be switched off, and must be protected against accidental re-energizing.

When installing this equipment always follow these safety rules:

Switch the power supply **OFF** at the location of the CEDD HPS Basestation when any installation, maintenance or replacement is done on the CEDD Inset Fixture.

The use of a disconnecting device is mandatory. The OFF position at the location of the CEDD HPS Basestation must be clearly marked and the disconnection device must be easily accessible. A switch or other disconnecting device for functional purposes may be provided.

Never open the equipment while the power supply is switched ON.

Never touch exposed electrical connections on this equipment while the power supply is switched ON.

Do not attempt to operate or service electrical equipment if standing water is present.

When working on the equipment always wear appropriate protective clothing.

2.5 Transport and Storage

If the equipment is stored before installation, it must be protected from the weather in a dry and secure environment, free of condensation and dust.

Keep the equipment in the original packing it was shipped in, until it is going to be installed.

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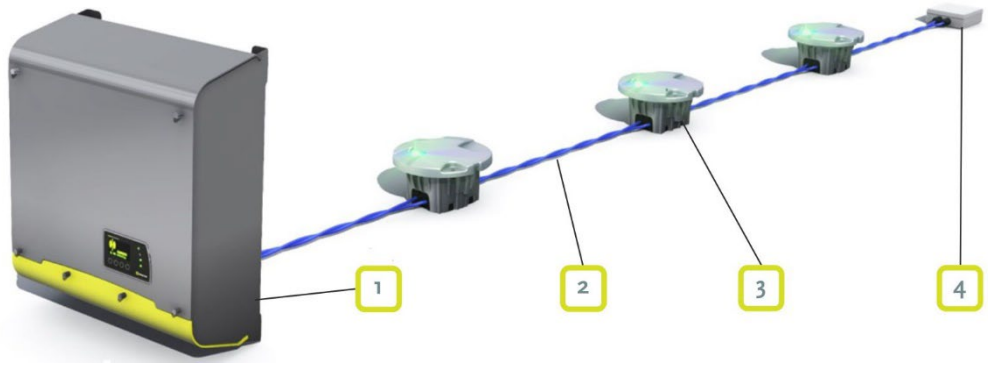
3. About the CEDD Inset Fixture

CEDD is an innovative contactless energy and communication technology. Energy and data transport are combined in a two-wire cable system, a basestation, and contactless user points. With this structured cable concept, lighting on airfields can easily be installed or replaced without making electrical contact with the power or data cable.

The CEDD system has been specifically designed for the operation of Airfield Ground Lighting (AGL) systems on airports, with the highest possible reliability.

A typical CEDD AGL System consists of a CEDD HPS Basestation (1) that provides power to the CEDD AGL fixtures (3) and bi-directional communication to all the CEDD AGL fixtures connected to the CEDD cable (2). A CEDD HPS Terminator (4) matches the correct characteristic impedance of the CEDD cable with the connected CEDD AGL fixtures.



All of the TKH Airport Solutions fixtures are available in CEDD. Refer to our website http://www.tkh-airportsolutions.com to see all the available variants of CEDD fixtures.

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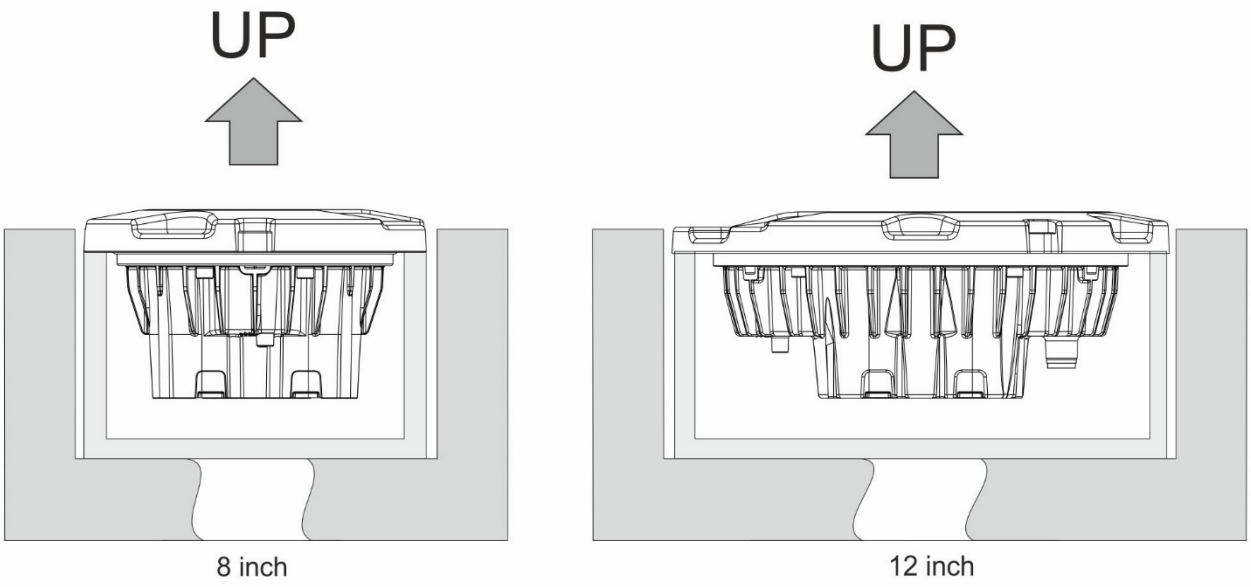
3.1 General specifications

Ambient temperature:	-40 ºC (40 ºF) / +75 ºC (+167 °F)
Altitude:	Up to 2000 m
Weight: approx.	3.7 kg (8 inch) 5.8 kg (12 inch)
Dust and water tightness:	IP68, IP69 IP6X (Dust test) passed *Test dust:* *Arizona dust A2* *Flow direction:* *Vertical* *Test duration:* *5 hours* IPX8 (continuous submersion) test passed *Water level:* *1,00 m* *Exposure time:* *30 minutes* *Water temperature:* *(23 ±5)°C* IPX9 (high pressure cleaning) test passed *Water flow:* *(15 ± 1) l/min* *↔ nozzle-specimen:* *(175 ± 25) mm* *Water temperature:* *(80 ±5)°C*
Operation position must be according to the drawing: (note: drawing is indicative only)	



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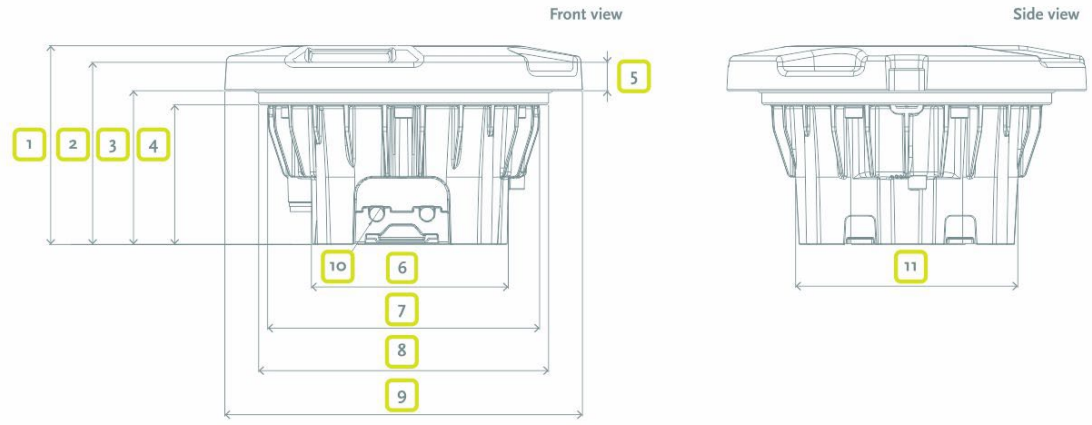
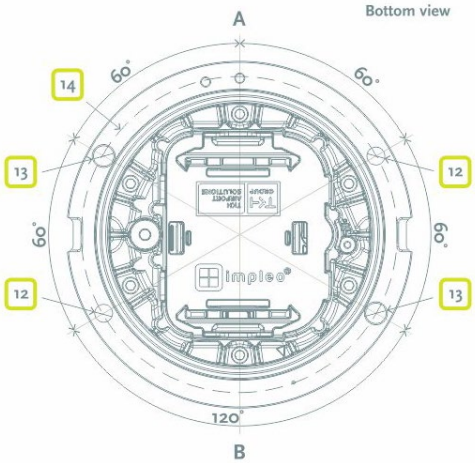
3.2 Dimensions 8” Inset Fixture

Pos.	Description	Values
1	Total height	112 mm
2	Height LED engine	102.7 mm
3	Height with flange	86.7 mm
4	Height below flange	78.7 mm
5	Flange thickness	16 mm
6	Housing bottom width	111 mm
7	Housing top diameter	153 mm
8	Flange diameter	163.5 mm
9	Cover diameter	202.9 mm
10	Cable diameter	7.9 mm (max)
11	Housing bottom width	125 mm
12	Diameter of mounting bolt holes (2x)	Ø 10.5 mm
13	Diameter of pilot holes (2x)	Ø 10.5 mm
14	Mounting hole center line	184 mm





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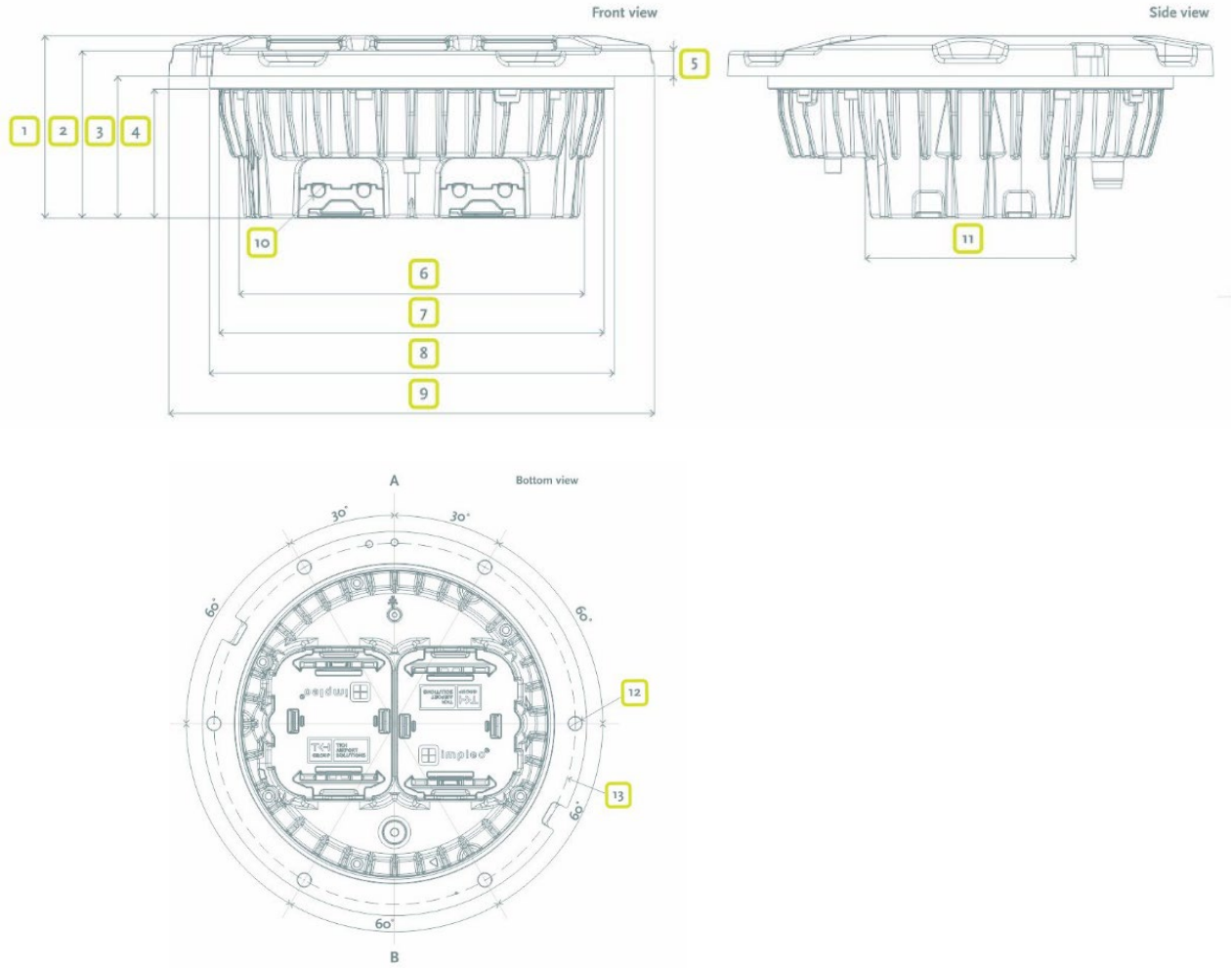
3.3 Dimensions 12” Inset Fixture

Pos.	Description	Values
1	Total height	119.7 mm
2	Height LED engine	105.3 mm
3	Height with flange	87.9 mm
4	Height below flange	80.2 mm
5	Flange thickness	17.4 mm
6	Bottom shell width	216 mm
7	Housing top diameter	241 mm
8	Flange diameter	252.5 mm
9	Cover diameter	304 mm
10	Cable feed through	7.9 mm (max)
11	Housing bottom width	132 mm
12	Diameter of mounting bolt holes (6x)	Ø 10.5 mm
13	Mounting hole center line	285.7 mm ± 0.2 mm



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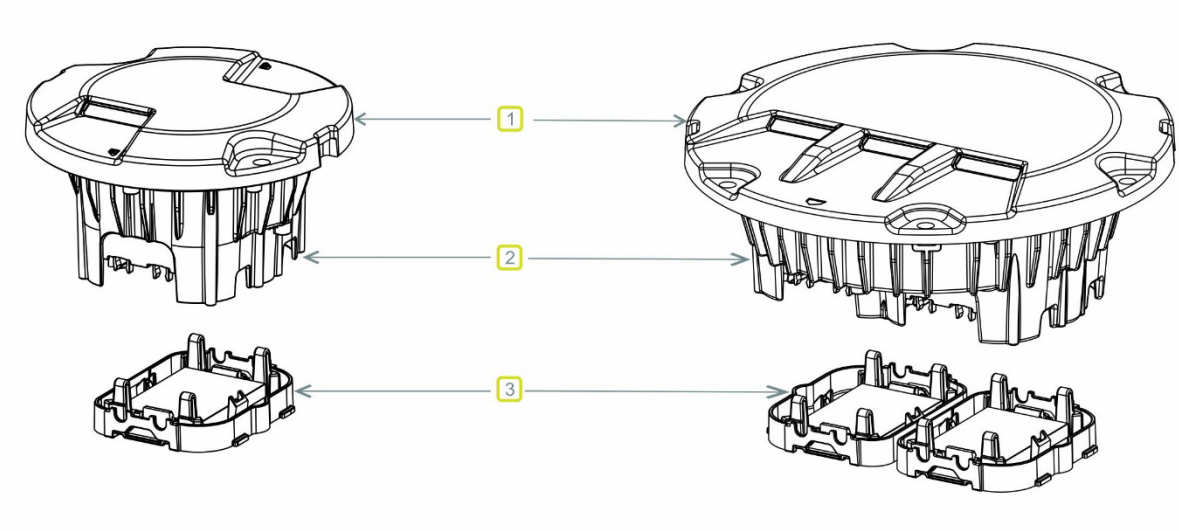
3.4 CEDD Inset Fixtures: Parts



CEDD 8”inset fixture

CEDD 12” inset fixture

1. Cover
2. Housing
3. Induction Clamp Lid

A detailed spare parts list can be found in chapter 11 on page 38.

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4. Inspection

Inspect the transport boxes

Before installation, the transport boxes and CEDD fixtures must be inspected for damage and defects. If the transport box appears to be damaged, keep the transport box and cushioning material until the contents of the box have been checked for completeness and the CEDD fixture is checked mechanically and electrically.

NOTICE

If the CEDD fixture has been damaged during transport, put the product and all other parts back into the transport box and contact your shipper and carrier.

Inspect the contents of the transport boxes

The transport boxes contain the following items, depending on the order:

The transport box must contain the following items:

- 8 inch inset fixture:
  - Light fixture, complete with I-plate and induction clamp with lid
  - O-ring
- 12 inch inset fixture:
  - Light fixture, complete with I-plate and induction clamp with lid

Inspect the contents of the transport boxes. If any item is missing, contact TKH Airport Solutions Customer Service.

Visually inspect the CEDD Fixture

Unpack and inspect the CEDD fixture. If there is any mechanical damage or defect, contact TKH Airport Solutions Customer Service.

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5. Installation

This chapter contains instructions for installing the CEDD Inset Fixtures.

Before installing the CEDD Inset Fixtures read the Installation Safety instructions below.

NOTICE

Disregarding these safety instructions will result in the loss of warranty in case of damage. TKH Airport Solutions is not liable for any injuries to personnel or any equipment damage.

5.1 Installation Safety

WARNING

The CEDD AGL system components (e.g. CEDD cable, CEDD AGL LED Fixtures, and CEDD HPS Terminator) should not be touched or worked on if the CEDD AGL system is operational (meaning constant current AGL series circuit energized). The constant current AGL series circuit must be de-energized before any (maintenance/service) work on the CEDD AGL system and its components can start. Before any work can start the CEDD HPS Basestation must be switched off, and must be protected against accidental re-energizing.

High voltage may still be present in the system after switching off. Wait for at least 15 minutes before starting installation.

WARNING

The CEDD AGL system must be installed in a restricted access area.

In any of the following cases the equipment must not be installed and must be kept out of reach from unauthorized use:

- if the CEDD cable or Inset Fixtures are visibly damaged
- after storage under unfavourable circumstances (for example, outdoors or in moist environments)
- after excessive transportation stress (for example in damaged packaging)
- if the equipment is not in the original packaging

CAUTION

It is recommended to earth the shallow base in locations presenting a high risk of lightning strikes. Refer to the Installation Instructions for the shallow base.

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5.2 Tools and Materials Needed

- A clean, flat working surface
- A bag to collect any debris removed from the shallow base
- Non-caustic cleaning agent
- Calibrated torque wrench
- M10 bolts and washers (as supplied with the shallow base)
- Hex socket (17 mm)
- If installing an 8” fixture into a 12” shallow base:
  - a CEDD adapter ring 8"/12"
  - a new O-ring for the 12" shallow base (order code P-850372)

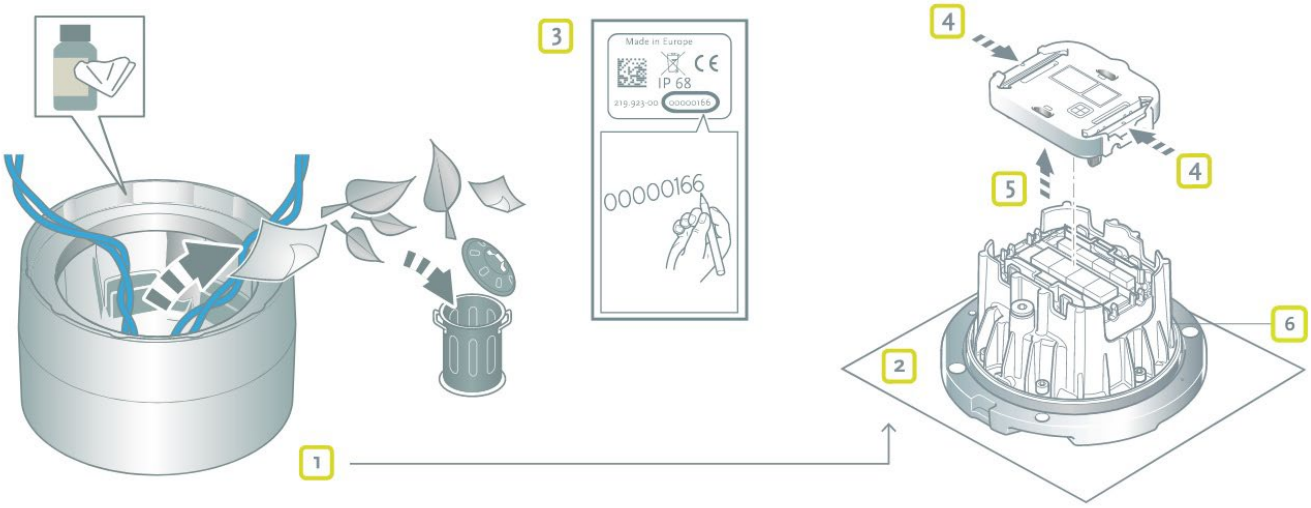
5.3 Installing a CEDD 8” Inset Fixture in an 8" Shallow Base

To install the CEDD 8" Inset Fixture in a shallow base, follow the steps below.

NOTICE

When mounting this fixture in a 12" Shallow Base a CEDD adapter ring 8"/12" is needed. See Installing a CEDD 8" Inset Fixture in a 12" Shallow Base on page 22.

1. Remove any debris from the shallow base and collect in a bag. No material may be left inside the shallow base. Clear the inner rim of sand and dust. Clean the inside of the shallow base using a non-caustic cleaning agent.



2. Remove the CEDD Elevated Base from its packaging and carefully put it upside down on a clean, flat working surface. Use a piece of foam packaging material with a hole in the center to support the collar.
3. Record the NUID of the CEDD Elevated Base (QR-code on the sticker) and its aeronautical name.

NOTICE

Information about NUIDs and their related aeronautical names is vital for commissioning and operation of the CEDD AGL system.

4. Unlock the CEDD induction clamp by pressing the two flanges on both sides inwards.
5. Lift the induction clamp lid with small tilting movements and remove it.
6. Make sure the O-ring is properly seated in the groove in the top cover of the CEDD Elevated Base.

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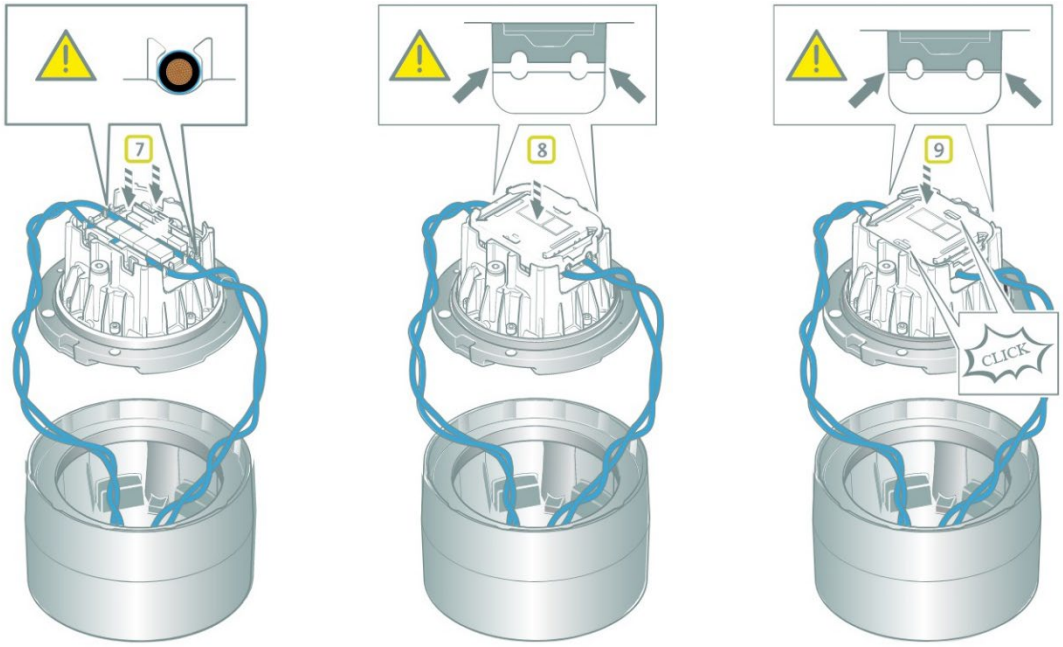
7. Align the CEDD cables with the two slots and click these into the small clamps on both sides.



8. Reposition the CEDD induction clamp lid.

NOTICE

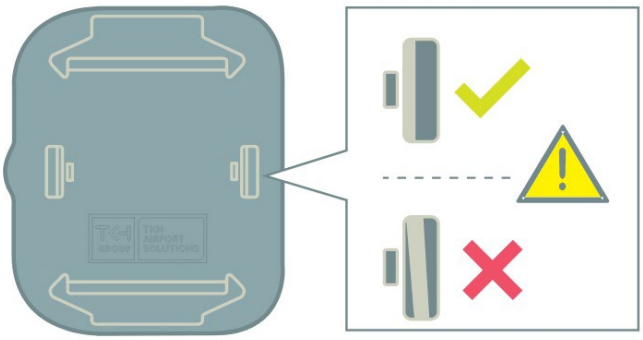
The induction clamp lid only fits in one way. The rounded notch on one side and the plastic retention protrusions make sure of this.

9. Firmly push down the induction clamp lid until you hear the metal retention brackets click into place.

NOTICE

Do not apply excessive force on the induction clamp lid, as this could damage the CEDD Elevated Base and ferrite parts.

10. Verify that the two metal retention brackets are visible and aligned straight with the induction clamp.



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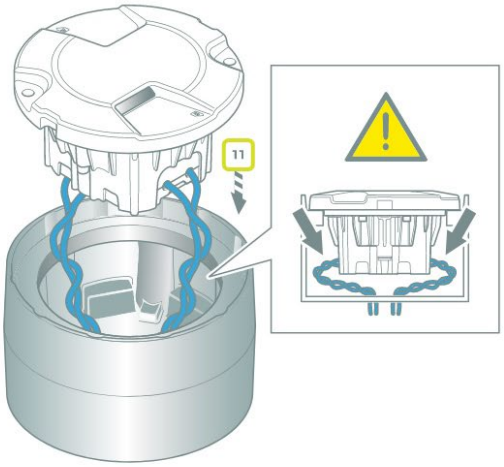
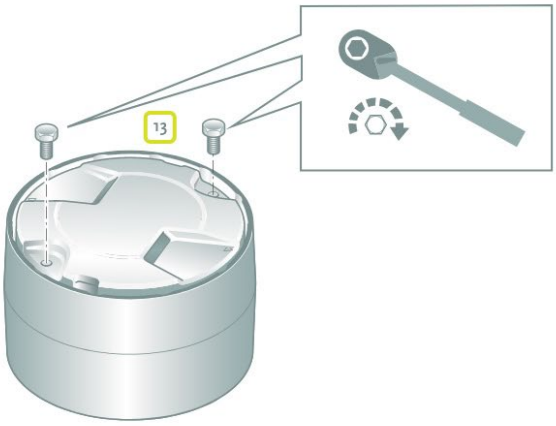
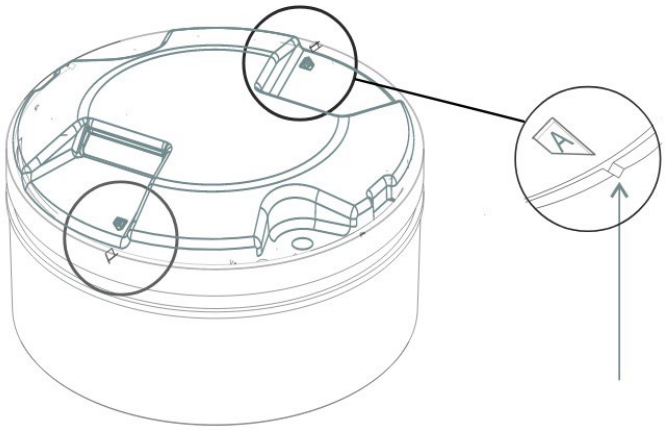
11. Turn the fixture the right way up and guide the fixture and cables into the shallow base.





12. Make sure the fixture is placed in the correct direction by aligning the A and B sides with the markings in the shallow base.



NOTICE

Before bolting the fixture cover to the shallow base, it is important to make sure the O-ring is properly seated in the groove to ensure the seal is watertight.

13. Mount the fixture onto the shallow base with 2 bolts and washers. Tighten the bolts using a calibrated torque wrench. Refer to the shallow base installation instructions.

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5.4 Installing a CEDD 8" Inset Fixture in a 12" Shallow Base

Tools and materials needed:

- One adapter ring 8"/12"

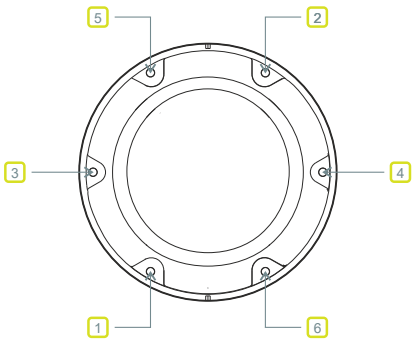
- A new O-ring for the 12” shallow base (order code P-850372)

To install the CEDD 8" fixture in a 12" shallow base, follow the steps below.

NOTICE

When installing or replacing a fixture in an existing shallow base, always use a new O-ring.

1. Remove any debris, leaves etc. from the shallow base and collect them in a bag. No material may be left inside the shallow base. Clear the inner rim of sand and dust. Clean the inside of the shallow base using a non-caustic cleaning agent.
2. Place the O-ring into the designated groove of the shallow base.
3. Place the adapter ring 8"/12" in the shallow base.
4. Mount the adapter ring 8"/12" onto the shallow base with 6 bolts and washers.
5. Fasten bolts 1 to 6 by hand in the following crosswise pattern:



6. Tighten bolts in the same pattern with the calibrated torque wrench (to the torque values given in the shallow base installation instructions).
7. To complete the installation of the CEDD 8" fixture, go to Installing a CEDD 8" fixture in an 8" shallow base on page 19 and follow steps 2 to 13.

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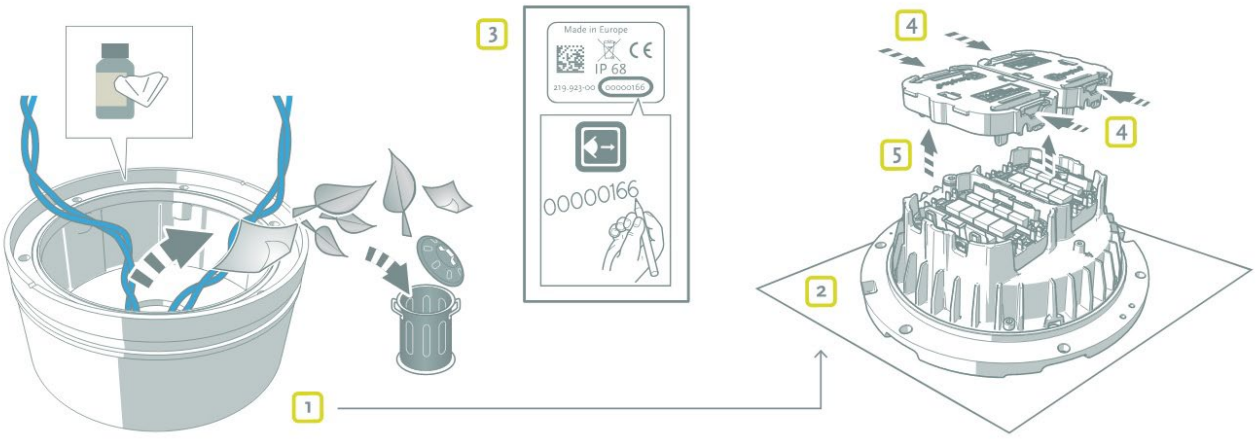
5.5 Installing a CEDD 12" Inset Fixture in a 12" Shallow Base

To install the CEDD 12" fixture in a shallow base, follow the steps below.

1. Remove any debris, leaves etc. from the shallow base and collect the waste material in a bag. No material may be left inside the shallow base. Clear any sand or dust from the groove under the O-ring. Clean the inside of the shallow base, including the groove, using a non-caustic cleaning agent.

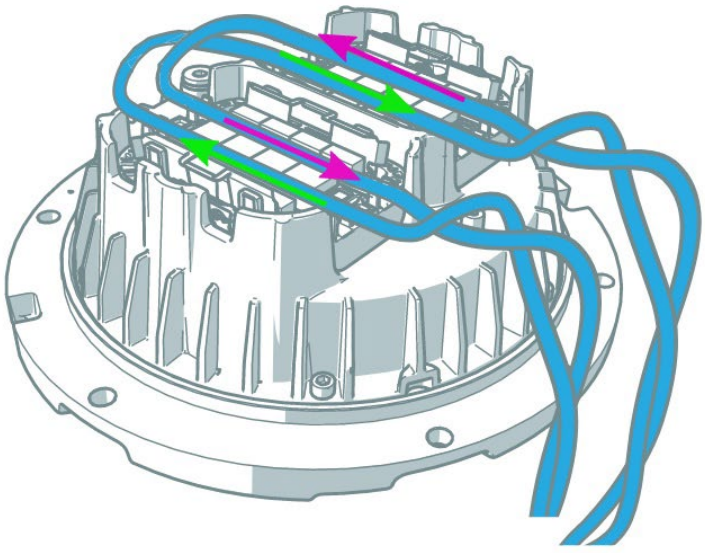


2. Remove the fixture from its packaging and carefully put it upside down on a clean, flat working surface.
3. Record the NUID of the fixture (see the QR-code on the sticker) and its aeronautical name.

NOTICE

Information about NUIDs and their related aeronautical names is vital for commissioning and operation of the CEDD system.

4. Unlock the CEDD induction clamp by pressing the two flanges on both sides inwards.
5. Lift the induction clamp lid with small tilting movements and remove it.
6. Make sure the O-ring is properly seated in the designated groove of the 12" shallow base.
7. Align the CEDD cables with the two slots and click these into the small clamps on both sides. In each induction clamp, the 2 cables must be routed through the slots in opposite directions:



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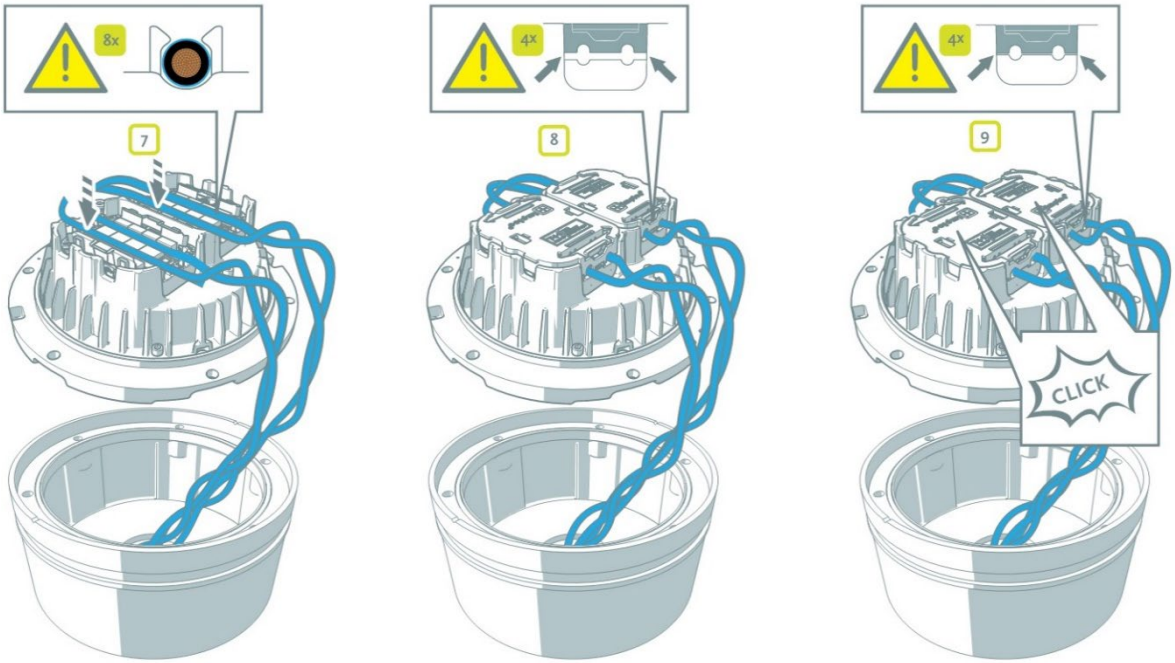
8. Reposition the CEDD induction clamp lid.

NOTICE

The induction clamp lid only fits in one way. The rounded notch on one side and the plastic retention protrusions make sure of this.

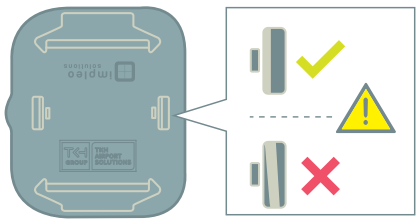


9. Firmly push down the induction clamp lid until you hear the metal retention brackets click into place.

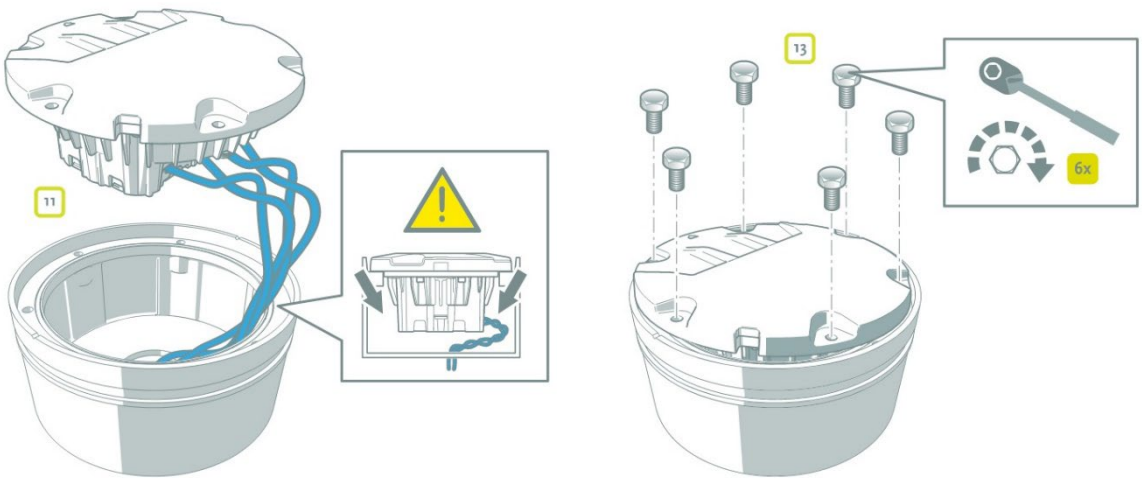
NOTICE

Do not apply excessive force on the induction clamp lid, as this could damage the fixture.

10. Verify that the two metal retention brackets are visible and aligned straight with the CEDD induction clamp.



11. Turn the fixture the right way up and guide the fixture and cables into the shallow base.



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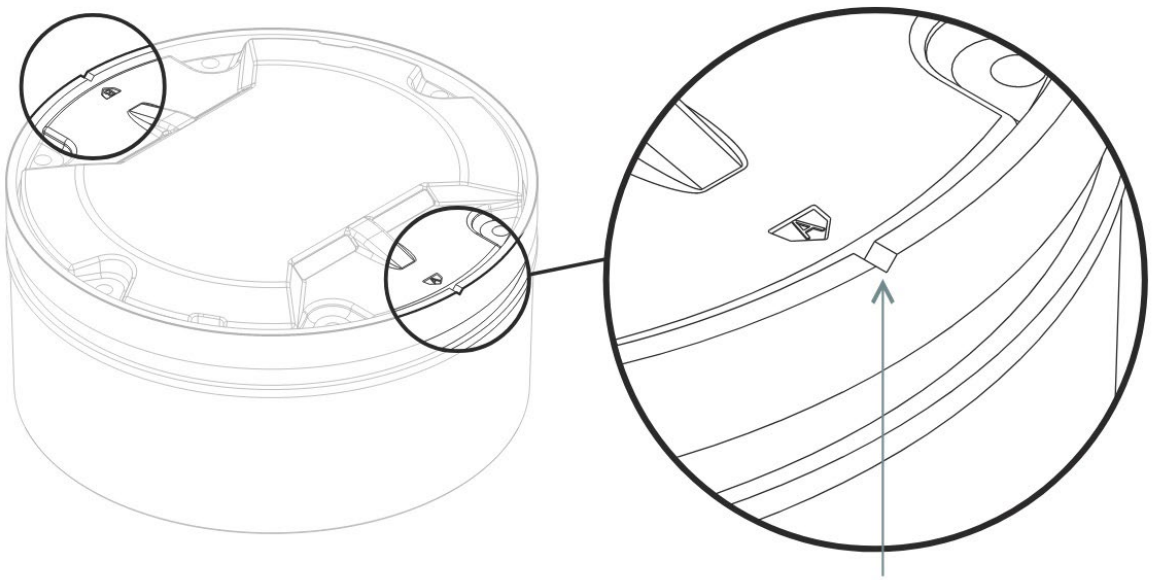
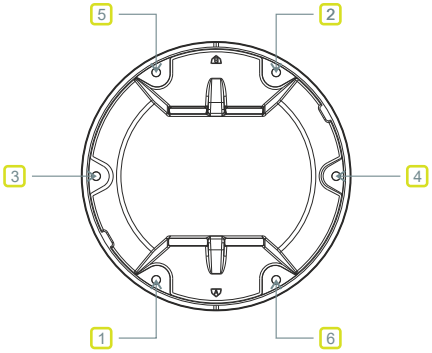
12. Make sure the fixture is placed in the correct direction by aligning the A and B sides with the markings in the shallow base.



13. Mount the fixture onto the 12" shallow base with 6 bolts and washers.



14. Fasten bolts 1 to 6 by hand in the following crosswise pattern:
15. Tighten bolts in the same pattern using a calibrated torque wrench (to the torque value given in the shallow base installation instructions).

5.6 Checking the Installation

Visually inspect the CEDD fixture after installation to check that:

- the top cover is undamaged
- all bolts are secure

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6. Operation and Commissioning

After completing the installation, the CEDD fixtures may be commissioned. A complete list of all NUIDs and related aeronautical names is required for commissioning.

Refer to the applicable Operating and Commissioning manual for information on the commissioning procedure for the project.

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7. Maintenance

Before you begin read these warnings carefully.

The CEDD AGL system components (e.g. CEDD cable, CEDD AGL LED Fixtures, and CEDD HPS Terminator) should not be touched or worked on if the CEDD AGL system is operational (meaning constant current AGL series circuit energized). The constant current AGL series circuit must be de-energized before any (maintenance/service) work on the CEDD AGL system and its components can start. Before any work can start the CEDD HPS Basestation must be switched off, and must be protected against accidental re-energizing.

After swichting the CEDD Basestation OFF, wait a minimum of 15 minutes for the system to de-energize.

Only trained and qualified personnel is allowed to maintain the equipment.

Replace any malfunctioning components according to the instructions provided in this manual.

7.1 Preventive Maintenance

Due to the contactless CEDD technology, minimal preventive maintenance is required. Apart from normal airfield cleaning procedures, perform regular visual inspections of the exterior of the CEDD fixture.

Maintenance frequency depends on the conditions under which the runway is used (climate, traffic, etc.). Contact TKH Airport Solutions Customer Service if extreme local conditions demand additional maintenance. The recommended practices for maintenance are described in the FAA advisory circular No.AC150/5340-26 and in the ICAO Aerodrome Design Manual, Part 9 Airport Maintenance Practices.

TKH Airport Solutions recommends performing the following preventive maintenance activities.

Frequency	Preventive maintenance activity
Daily	• Check the correct operation of the fixture; repair in case of any malfunction
Weekly	• Visually inspect each light fixture for damage, loose parts, or abnormal condition • Clean the front glass and remove dust/dirt from the fixture
Monthly	• Inspect the optical window/prism for cleanliness, mechanical damage, and any moisture or condensation inside the prism • Check mounting bolts for correct torque; re-torque to the specified value if required
Yearly	• Perform a detailed inspection of the light fixture • Check for mechanical damage such as prism cracks • Clean the optical windows • Inspect the lights for toe-in adjustment if applicable
As needed (incidentally)	• After snow removal operations, inspect fixtures for damage. Replace any damaged fixtures, and return them for investigation and repair.

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7.2 Corrective maintenance

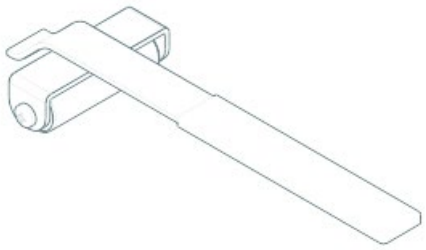
When it is necessary to replace or repair malfunctioning components the whole light fixture should be deinstalled and returned to TKH Airport Solutions Customer Service.

To de-install the CEDD Inset Fixtures, follow the instructions in section De-installing a CEDD 8" fixture on page 29 or section De-installing a CEDD 12" fixture on page 30.

Tools and materials needed

The following standard tools and accessories are required for de-installation of the fixture:

- Hex socket (for example 17 mm)
- Lifting tool for removing the fixture from the shallow base (Order code 302312)



- Calibrated torque wrench
- Optional – a suitable blind plate to fit the shallow base

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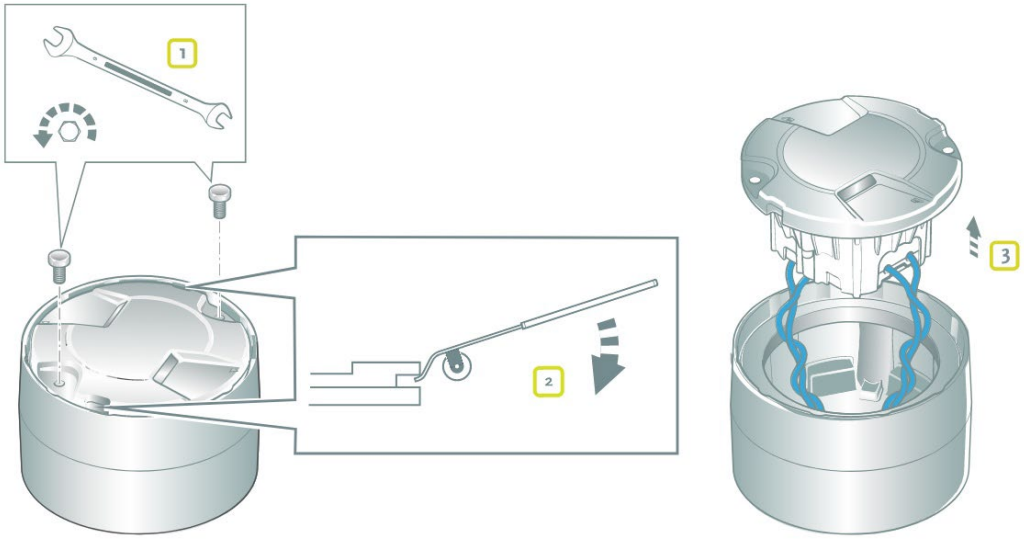
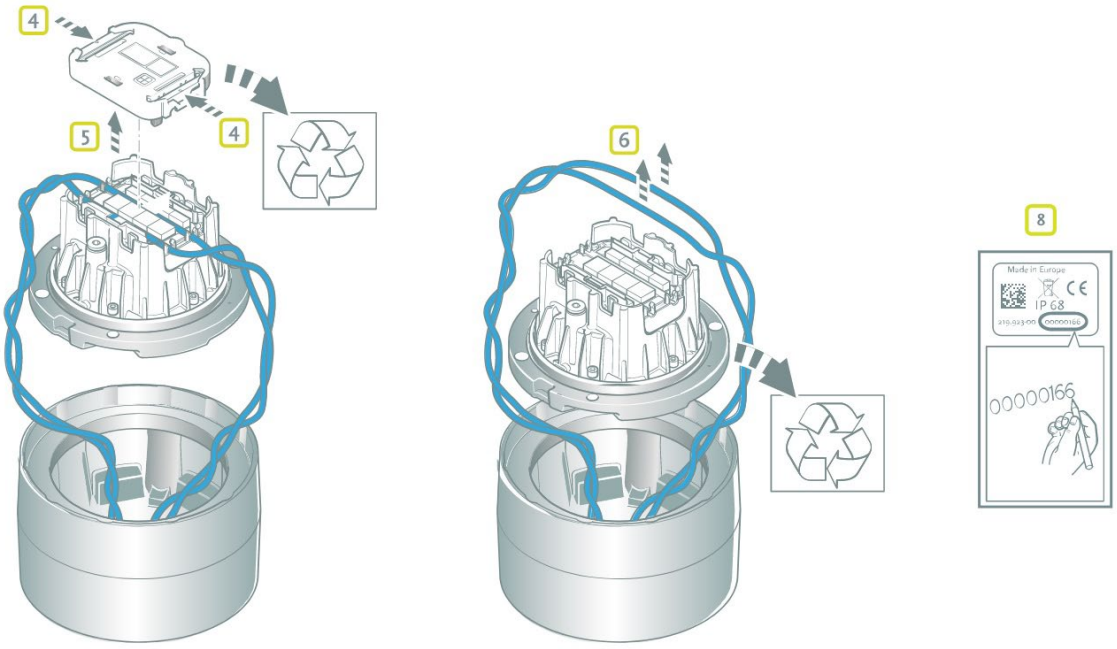
7.3 De-installing a CEDD 8" Inset Fixture

To remove the CEDD 8" fixture from a shallow base, follow the steps below.

1. Remove the bolts using a Hex socket.



2. Pry the fixture out of the shallow base using the lifting tool.
3. Lift the fixture and turn it upside down.
4. Release the CEDD induction clamp by pressing the two flanges on both sides inwards.



5. Lift the CEDD induction clamp lid with small tilting movements and remove it.
6. Take the cables from the slots and remove the fixture.
7. If the fixture will not be replaced immediately, fix a suitable blind plate over the shallow base.
8. Record the NUID of the fixture (see the QR-code on the sticker) and its aeronautical name.

NOTICE

Information about NUIDs and their related aeronautical names is vital for commissioning and operation of the CEDD system.

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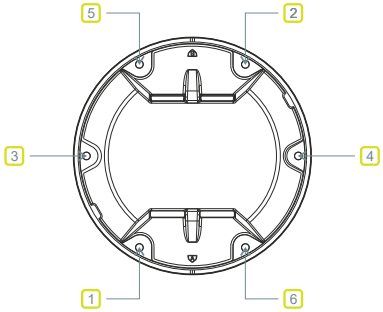
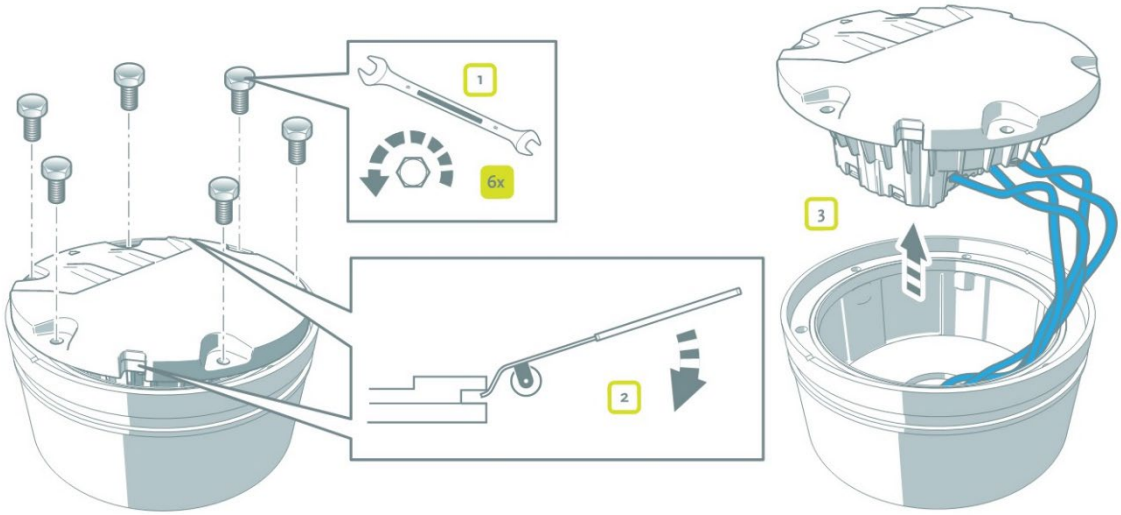
7.4 De-installing a CEDD 12" Inset Fixture

To remove the CEDD 12" fixture from a shallow base, follow the steps below.

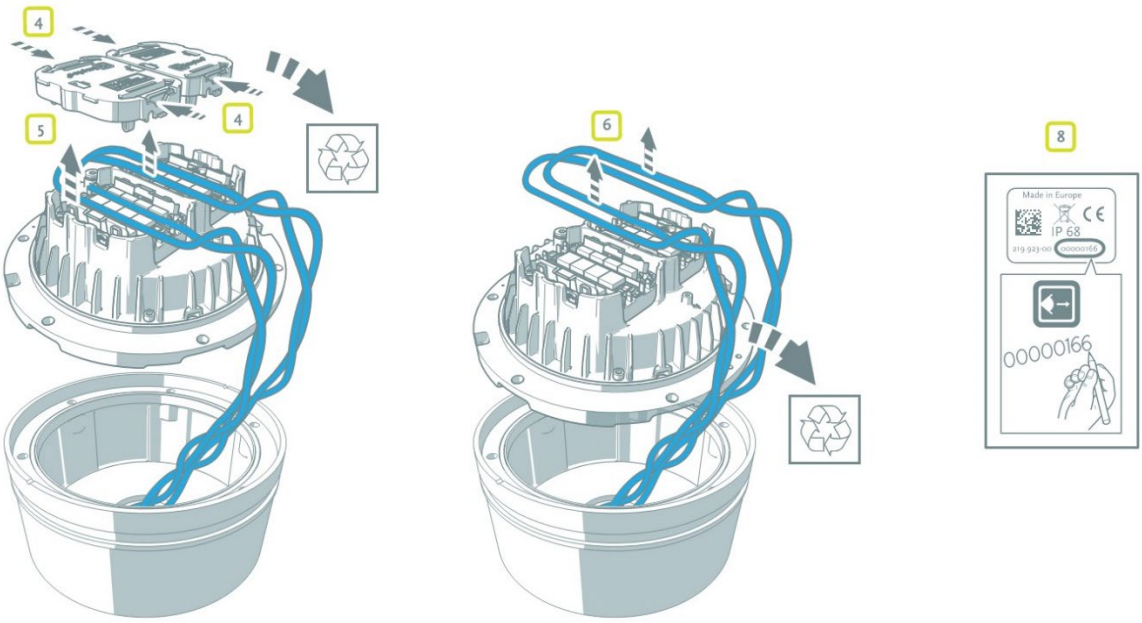
1. Remove the bolts in a crosswise pattern from 6 to 1 using a Hex socket.



2. Pry the fixture out of the shallow base using the lifting tool.



3. Lift the fixture and turn it upside down.
4. Release the CEDD induction clamp by pressing the two flanges on both sides inwards.



5. Lift the CEDD induction clamp lid with small tilting movements and remove it.

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6. Take the cables from the slots and remove the fixture.
7. If the fixture will not be replaced immediately, fix a suitable blind plate over the shallow base.
8. Record the NUID of the fixture (see the QR-code on the sticker) and its aeronautical name.

NOTICE

Information about NUIDs and their related aeronautical names is vital for commissioning and operation of the CEDD system.

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8. Troubleshooting

This chapter describes how to diagnose the most common problems with the CEDD Inset Fixtures and their corrective actions. For software and communication problems, see the applicable Operating and Commissioning manual.

The CEDD AGL system components (e.g. CEDD cable, CEDD AGL LED Fixtures, and CEDD HPS Terminator) should not be touched or worked on if the CEDD AGL system is operational (meaning constant current AGL series circuit energized). The constant current AGL series circuit must be de-energized before any (maintenance/service) work on the CEDD AGL system and its components can start. Before any work can start the CEDD HPS Basestation must be switched off, and must be protected against accidental re-energizing.

After swichting the CEDD Basestation OFF, wait a minimum of 15 minutes for the system to de-energize.

If a fixture is not working correctly do the following checks to diagnose the problem:

1. Fixture check
2. CEDD cable check
3. Ferrites and clamp check

If the fixture is still not working after these checks, contact TKH Airport Solutions.

8.1 Visual fixture check

This procedure describes how to check whether the fixture has exterior damage.

1. Check that there are no cracks in the fixture top cover.
2. Check that the rubber seal around the lens is intact.
3. Check that the lens is not obscured with rubber or grease. If necessary, clean the lens.

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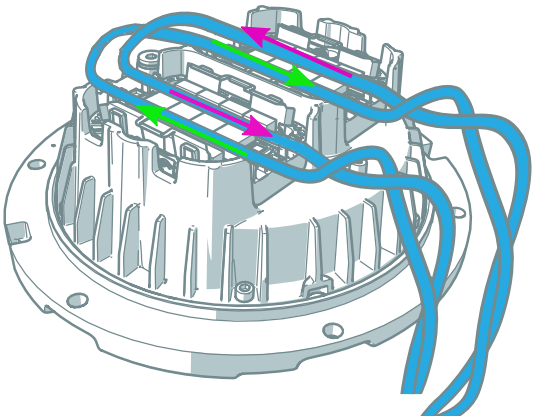
8.2 CEDD cable check

This procedure describes how to make sure that the CEDD cables are undamaged and correctly placed in the fixture.

1. Remove the fixture from the shallow base (see De-installing a CEDD 8" fixture on page 29 or Deinstalling a CEDD 12" fixture on page 30).
2. Turn the fixture upside down and unlock the CEDD induction clamp by pressing the two flanges on both sides inwards. Lift the induction clamp lid and remove it.
3. Check for physical damage to the cables
4. Check that the cables can move freely in the slots.
5. For a 12” fixture, make sure that the cables are inserted in the right slots:



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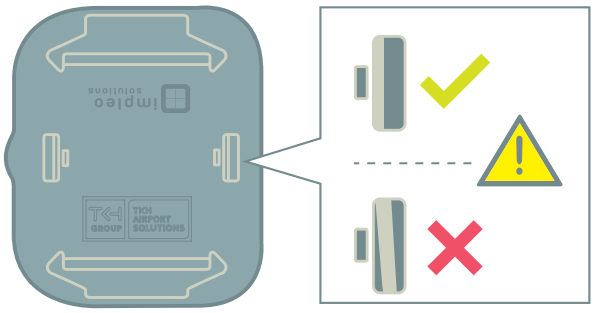
8.3 Ferrites and clamp check

This procedure describes how to determine whether the problem is caused by an open clamp or by damaged ferrite parts.

1. Make sure that the clamp is closed.



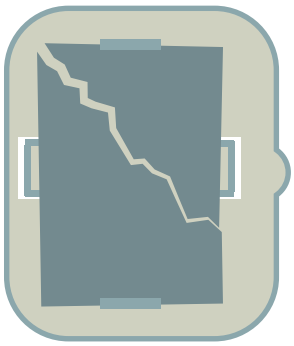
If the clamp is not closed or the metal retention brackets are not positioned correctly, go to step 7.

2. Remove the CEDD induction clamp and both CEDD cable wires.

   a. Check for mechanical damage to the clamps

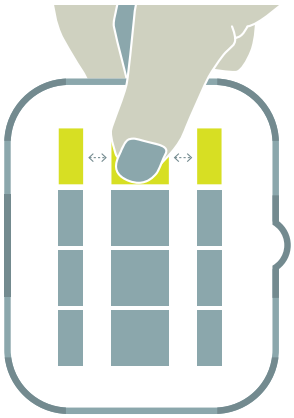
   b. Check that the metal spring in the clamp is working

3. Inspect the I-plate of the clamp.



If the I-plate is damaged (chipped or broken) it needs to be replaced. Go to step 7..

4. Inspect each individual E-core of the unit.



   a. Remove any ferrite debris

   b. Remove any grease or oil on the E-core surfaces

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c. Check that there are no cracks or gaps between the blocks

d. Press down on each center block in turn - the corresponding side blocks should lower at the same time
If the E-core is damaged, go to step 7.

5. Reposition the cables in the cable clips.
6. Close the clamp and make sure that the metal retention brackets are positioned correctly. See Installing a CEDD 8" fixture in an 8" shallow base on page 19 or Installing a CEDD 12" fixture in a 12" shallow base on page 23.
7. If the fixture is still not working correctly, contact TKH Airport Solutions.

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9. Taking out of service

1. De-install the fixture as described in De-installing a CEDD 8" fixture on page 29 or De-installing a CEDD 12" fixture on page 30.
2. Return the fixture to TKH Airport Solutions for maintenance, repair or disposal. Contact TKH Airport Solutions Customer Service for the correct address.

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10. Disposal

All electrical and electronic products must be disposed of separately from normal waste at the end of their useful life.

NOTICE

Return the CEDD fixtures to TKH Airport Solutions for disposal. Contact TKH Airport Solutions Customer Service for the correct address.

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11. Spare Parts list for CEDD Inset Lights

11.1 Spare parts for CEDD Inset Lights 8”

Part No.	Order Code / Name	Description
Runway Centreline / L-850A		
180.912-05	Cover 8" uni straight	Cover for 8" inset fixture | unidirectional | straight
180.912-02	Cover 8" bi straight	Cover for 8" inset fixture | bidirectional | straight
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
190.777-467	MHG-RCL-8-1xW-CAT3-00-0	LED module | Runway Centerline / Touch Down Zone | 8 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
190.777-017	MHG-RCL-8-1xR-CAT3-00-0	LED module | Runway Centerline | 8 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
216.100-007	MHG-L850A-8-1xW-CAT3-00-0-0	LED module | L-850A | 8 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
216.100-017	MHG-L850A-8-1xR-CAT3-00-0-0	LED module | L-850A | 8 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites
Touch Down Zone / L-850B		
180.912-05	Cover 8" uni straight	Cover for 8" inset fixture | unidirectional | straight
180.912-16	Cover TDZ 8" uni right	Cover for 8" inset fixture | Touch Down Zone / L-850B | unidirectional | right
180.912-17	Cover TDZ 8" uni left	Cover for 8" inset fixture | Touch Down Zone / L-850B | unidirectional | left
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
190.777-467	MHG-RCL-8-1xW-CAT3-00-0	LED module | Runway Centerline / Touch Down Zone | 8 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
216.100-027	MHG-L850B-8-1xW-CAT3-00-0-0	LED module | L-850B | 8 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

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Runway Guard / L-852G		
181.051-02	Cover RWG/L-852G/RETIL/RETL800 8" uni	Cover for 8" fixture | Runway Guard / L-852G / Rapid Exit Taxiway Indicator / Rapid Exit Taxiway 800cd | unidirectional | straight
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
190.777-477	MHG-RWGs-8-1xY-CAT3-00-0	LED module | Runway Guard | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
216.160-007	MHG-L852G-8-1xY-CAT3-00-0	LED module | L-852G | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

Rapid Exit Taxiway Indicator		
181.051-02	Cover RWG/RETIL/RETL800 8" uni	Cover for 8" fixture | Runway Guard / Rapid Exit Taxiway Indicator / Rapid Exit Taxiway 800cd | unidirectional | straight
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
190.777-037	MHG-RETIL-8-1xY-CAT3-00-0	LED module | Rapid Taxiway Indicator | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

Rapid Exit Taxiway 800 cd		
181.051-02	Cover RWG/RETIL/RETL800 8" uni	Cover for 8" fixture | Runway Guard / Rapid Exit Taxiway Indicator / Rapid Exit Taxiway 800cd | unidirectional | straight
230.145-01	Cover RETLC800 8" uni left	Cover for 8" fixture | Rapid Exit Taxiway Centerline 800 cd | unidirectional | left
230.145-02	Cover RETLC800 8" uni right	Cover for 8" fixture | Rapid Exit Taxiway Centerline 800 cd | unidirectional | right
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
	MHG-RETL800-8-1xY-CAT3-00-0	LED module | Rapid Exit Taxiway Centerline 800 cd | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
	MHG-RETL800-8-1xG-CAT3-00-0	LED module | Rapid Exit Taxiway Centerline 800 cd | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
	MHG-RETLC800-8-1xY-CAT3-00-0	LED module | Rapid Exit Taxiway Centerline Curved 800 cd | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
	MHG-RETLC800-8-1xG-CAT3-00-0	LED module | Rapid Exit Taxiway Centerline Curved 800 cd | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

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Taxiway Centreline / L-852A / L-852B / L-852C / L-852D / L-852J / L-852K		
180.912-05	Cover 8" uni straight	Cover for 8" inset fixture | unidirectional | straight
180.912-02	Cover 8" bi straight	Cover for 8" inset fixture | bidirectional | straight
186.136-22	Cover TCC/L-852J/K 8" uni left	Cover for 8" inset fixture | Taxiway Centerline Curved / L-852J / L-852K | unidirectional | left
186.136-32	Cover TCC/L-852J/K 8" uni right	Cover for 8" inset fixture | Taxiway Centerline Curved / L-852J / L-852K | unidirectional | right
186.136-02	Cover TCC/L-852J/K 8" bi left	Cover for 8" inset fixture | Taxiway Centerline Curved / L-852J / L-852K | bidirectional | left
186.136-12	Cover TCC/L-852J/K 8" bi right	Cover for 8" inset fixture | Taxiway Centerline Curved / L-852J / L-852K | bidirectional | right
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
190.777-067	MHG-TCL-8-1xG-CAT3-00-0	LED module | Taxiway Centerline | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
190.777-427	MHG-TCL-8-1xY-CAT3-00-0	LED module | Taxiway Centerline / Intermediate Holding Position | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
190.777-107	MHG-TCL-8-1xB-CAT3-00-0	LED module | Taxiway Centerline | 8 inch | Blue | CAT III | No heating | No special options | No fail-open | 6.6 A
190.777-147	MHG-TCC-8-1xG-CAT3-00-0	LED module | Taxiway Centerline Curved | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
190.777-447	MHG-TCC-8-1xY-CAT3-00-0	LED module | Taxiway Centerline Curved | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
190.777-187	MHG-TCC-8-1xB-CAT3-00-0	LED module | Taxiway Centerline Curved | 8 inch | Blue | CAT III | No heating | No special options | No fail-open | 6.6 A
216.150-007	MHG-L852A-8-1xG-CAT3-00-0-0	LED module | L-852A | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.150-017	MHG-L852A-8-1xY-CAT3-00-0-0	LED module | L-852A | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
216.151-007	MHG-L852B-8-1xG-CAT3-00-0-0	LED module | L-852B | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.151-017	MHG-L852B-8-1xY-CAT3-00-0-0	LED module | L-852B | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
216.152-007	MHG-L852C-8-1xG-CAT3-00-0-0	LED module | L-852C | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.152-017	MHG-L852C-8-1xY-CAT3-00-0-0	LED module | L-852C | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
216.153-007	MHG-L852D-8-1xG-CAT3-00-0-0	LED module | L-852D | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.153-017	MHG-L852D-8-1xY-CAT3-00-0-0	LED module | L-852D | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
216.154-007	MHG-L852J-8-1xG-CAT3-00-0-0	LED module | L-852J | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.154-017	MHG-L852J-8-1xY-CAT3-00-0-0	LED module | L-852J | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
216.155-007	MHG-L852K-8-1xG-CAT3-00-0-0	LED module | L-852K | 8 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.155-017	MHG-L852K-8-1xY-CAT3-00-0-0	LED module | L-852K | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

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Intermediate Holding Position		
180.912-05	Cover 8" uni straight	Cover for 8" inset fixture | unidirectional | straight
180.912-02	Cover 8" bi straight	Cover for 8" inset fixture | bidirectional | straight
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
190.777-427	MHG-TCL-8-1xY-CAT3-00-0	LED module | Taxiway Centerline / Intermediate Holding Position | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

Stop Bar / L-852S		
180.912-05	Cover 8" uni straight	Cover for 8" inset fixture | unidirectional | straight
180.912-02	Cover 8" bi straight	Cover for 8" inset fixture | bidirectional | straight
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
190.777-087	MHG-TCL-8-1xR-CAT3-00-0	LED module | Stop Bar | 8 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
216.170-007	MHG-L852S-8-1xR-CAT3-00-0	LED module | L-852S | 8 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

Take-off and Hold		
180.912-05	Cover 8" uni straight	Cover for 8" inset fixture | unidirectional | straight
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
213.641-767	MHG-THL-8-1xR-CAT3-00-FO-0	LED module | Take-off and Hold | 8 inch | Red | CAT III | No heating | No special options | With fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

Runway Entrance		
180.912-05	Cover 8" uni straight	Cover for 8" inset fixture | unidirectional | straight

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400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
213.641-777	MHG-REL-8-1xR-CAT3-00-FO-0	LED module | Runway Entrance | 8 inch | Red | CAT III | No heating | No special options | With fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

Omnidirectional / L-852E / L-852T		
204.784-01	Cover 8" omni	Cover for 8" inset fixture | omnidirectional
400.000-007	EHG-CEDD-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | High Power Node | including bottom cap and ferrites
400.000-507	EHG-CEDDMP-0-0x0-0-8-0	Electronic Housing Group | CEDD | 8 inch inset | Medium Power Node | including bottom cap and ferrites
211.060-007	MHG-TXE-8-1xB-CAT3-00-0	LED module | Taxiway Edge Omnidirectional | 8 inch | Blue | CAT III | No heating | No special options | No fail-open | 6.6 A
211.060-037	MHG-TXO-8-1xY-CAT3-00-0	LED module | Taxiway Omnidirectional | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
	MHG-SMGL60-8-1xY-CAT3-00-0	LED module | Stand Manoeuvring Guidance 60 cd omnidirectional | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
216.140-017	MHG-L852E-8-1xY-CAT3-00-0	LED module | L-852E | 8 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
216.140-007	MHG-L852T-8-1xB-CAT3-00-0-0	LED module | L-852T | 8 inch | Blue | CAT III | No heating | No special options | No fail-open | 6.6 A
211.061-007	Omni prism incl gasket	Prism incl gasket | for omnidirectional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

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11.2 Spare parts for CEDD Inset Lights 12”

Part No.	Order Code / Name	Description
ICAO Approach / Approach Side Row		
205.250-01	Cover APH 12" straight	Cover for 12" inset fixture | Approach / Side Row | unidirectional | straight
205.250-11	Cover APH 12" left	Cover for 12" inset fixture | Approach / Side Row | unidirectional | left
205.250-21	Cover APH 12" right	Cover for 12" inset fixture | Approach / Side Row | unidirectional | right
400.001-007	EHG-CEDD-0-0x0-0-12-0	Electronic Housing Group | CEDD | 12 inch inset | High Power Node | including bottom cap and ferrites
216.076-007	MHG-APH-12-1xW-CAT3-00-0-0	LED module | Approach | 12 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
216.076-017	MHG-APH-12-1xR-CAT3-00-0-0	LED module | Approach Side Row | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
216.073-007	APH prism incl gasket	Borosilicate prism incl gasket for inset Approach and Side Row lights
216.073-017	APH sapphire prism incl gasket	Sapphire prism incl gasket for inset Approach and Side Row lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites
ICAO Threshold		
198.865-01	Cover THR 12" straight	Cover for 12" inset fixture | Threshold | unidirectional | straight
198.863-01	Cover THR 12" left	Cover for 12" inset fixture | Threshold | unidirectional | left
198.864-01	Cover THR 12" right	Cover for 12" inset fixture | Threshold | unidirectional | right
400.001-007	EHG-CEDD-0-0x0-0-12-0	Electronic Housing Group | CEDD | 12 inch inset | High Power Node | including bottom cap and ferrites
205.917-027	MHG-THR-12-1xG-CAT3-00-0-0	LED module | Threshold | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites
ICAO Threshold Wing Bar		
198.868-01	Cover THRW 12" straight	Cover for 12" inset fixture | Threshold Wing Bar | unidirectional | straight
198.866-01	Cover THRW 12" left	Cover for 12" inset fixture | Threshold Wing Bar | unidirectional | left
198.867-01	Cover THRW 12" right	Cover for 12" inset fixture | Threshold Wing Bar | unidirectional | right
400.001-007	EHG-CEDD-0-0x0-0-12-0	Electronic Housing Group | CEDD | 12 inch inset | High Power Node | including bottom cap and ferrites
205.916-237	MHG-THRW-12-1xG-CAT3-00-0-0	LED module | Threshold Wing Bar | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights

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190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

ICAO Combined Threshold/Runway-End		
198.178-01	Cover THRE 12" straight	Cover for 12" inset fixture | Combined Threshold / Runway End | bidirectional | straight
198.179-01	Cover THRE 12" left	Cover for 12" inset fixture | Combined Threshold / Runway End | bidirectional | left
198.180-01	Cover THRE 12" right	Cover for 12" inset fixture | Combined Threshold / Runway End | bidirectional | right
400.001-007	EHG-CEDD-0-0x0-0-12-0	Electronic Housing Group | CEDD | 12 inch inset | High Power Node | including bottom cap and ferrites
205.916-187	MHG-L850D-12-1xG-CAT3-00-0	LED module | Combined Threshold / Runway End | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-057	MHG-REH-12-1xR-CAT3-00-0-0	LED module | Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

ICAO Runway-End		
187.161-05	Cover RWE 12" straight	Cover for 12" inset fixture | Runway End | unidirectional | straight
400.001-007	EHG-CEDD-0-0x0-0-12-0	Electronic Housing Group | CEDD | 12 inch inset | High Power Node | including bottom cap and ferrites
205.916-447	MHG-RWE-12-1xR-CAT3-00-0-0	LED module | Runway End | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

ICAO Runway Edge / FAA L-850C		
192.176-01	Cover REH 12" bi 3.5°	Cover for 12" inset fixture | Runway Edge | bidirectional | 3.5° toe-in
192.176-02	Cover REH 12" bi 4.5°	Cover for 12" inset fixture | Runway Edge | bidirectional | 4.5° toe-in
192.176-22	Cover REH 12" uni 4.5° left	Cover for 12" inset fixture | Runway Edge | unidirectional | 4.5° toe-in | left
192.176-32	Cover REH 12" uni 4.5° right	Cover for 12" inset fixture | Runway Edge | unidirectional | 4.5° toe-in | right
400.001-007	EHG-CEDD-0-0x0-0-12-0	Electronic Housing Group | CEDD | 12 inch inset | High Power Node | including bottom cap and ferrites
205.916-047	MHG-REH-12-1xW-CAT3-00-0-0	LED module | Runway Edge | 12 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-057	MHG-REH-12-1xR-CAT3-00-0-0	LED module | Runway Edge & Combined Threshold / Runway End | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-197	MHG-REH-12-1xG-CAT3-00-0-0	LED module | Runway Edge | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A

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205.916-207	MHG-REH-12-1xY-CAT3-00-0-0	LED module | Runway Edge | 12 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
205.916-707	MHG-REH-12-1xB-CAT3-00-0-0	LED module | Runway Edge | 12 inch | Blue | CAT III | No heating | No special options | No fail-open | 6.6 A
206.512-027	MHG-REH-12-1xY-CAT3-01-FO-0	LED module | Runway Edge | 12 inch | Yellow | CAT III | No heating | With overheat protection | With fail-open | 6.6 A
216.110-007	MHG-L850C-12-1xW-CAT3-00-0-0	LED module | L-850C | 12 inch | White | CAT III | No heating | No special options | No fail-open | 6.6 A
216.110-027	MHG-L850C-12-1xR-CAT3-00-0-0	LED module | L-850C | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
216.110-037	MHG-L850C-12-1xG-CAT3-00-0-0	LED module | L-850C | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.110-017	MHG-L850C-12-1xY-CAT3-00-0-0	LED module | L-850C | 12 inch | Yellow | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

FAA L-850D		
192.176-21	Cover L-850D uni left	Cover for 12" inset fixture | L-850D | unidirectional | left toe-in
187.161-05	Cover L-850D uni straight	Cover for 12" inset fixture | L-850D | unidirectional | straight
198.179-01	Cover L-850D bi left	Cover for 12" inset fixture | L-850D | bidirectional | left toe-in
198.180-01	Cover L-850D bi right	Cover for 12" inset fixture | L-850D | bidirectional | right toe-in
400.001-007	EHG-CEDD-0-0x0-0-12-0	Electronic Housing Group | CEDD | 12 inch inset | High Power Node | including bottom cap and ferrites
216.120-007	MHG-L850D-12-1xG-CAT3-00-0	LED module | L-850D | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
216.120-017	MHG-L850D-12-1xR-CAT3-00-0-0	LED module | L-850D | 12 inch | Red | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

FAA L-850E		
187.161-05	Cover L-850E	Cover for 12" inset fixture | L-850E | unidirectional
400.001-007	EHG-CEDD-0-0x0-0-12-0	Electronic Housing Group | CEDD | 12 inch inset | High Power Node | including bottom cap and ferrites
216.130-007	MHG-L850E-12-1xG-CAT3-00-0-0	LED module | L-850E | 12 inch | Green | CAT III | No heating | No special options | No fail-open | 6.6 A
190.775-007	Prism incl gasket	Borosilicate prism incl gasket | for uni-/bi-directional inset lights
190.775-017	Sapphire prism incl gasket	Sapphire prism incl gasket | for uni-/bi-directional inset lights
400.000-017	CEDD Cap + Ferrites	CEDD Bottom Cap and Ferrites

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Company profile:

TKH Airport Solutions is an innovator in airfield ground lighting, offering a complete range of LED AGL products. We build upon the know-how from a long and successful tradition of pioneering developments in the AGL and connectivity industry. Being part of the TKH Group, our company can build on a history of more than 95 years in smart connectivity, energy distribution and AGL.

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