

LED Elevated Omni-directional Lighting Fixtures

LED Elevated Taxiway Edge Light and LED Low Intensity Obstruction EOL-TE-LED and EOL-OB-LED

Operation Manual



Please read this manual carefully before construction, installation and operation of the product.

Please keep this manual properly for further reference.

This manual is subject to change without prior notice.

Airsafe Airport Equipment Co., Ltd.



Revision Description

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2	Contents of LED obstruction light added	V1.1	Z.H	C.SY	Oct. 10, 2016
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1.0 Foreword

ICAO Airport Service Manual Part 9 "Airport Maintenance Practices" and FAA AC150/5345-26 Maintenance of Airport Visual Aid Facilities are the highest criterions for site installation and maintenance of such lighting fixtures. This manual was compiled with considerable reference to these two criterions.

The content stated in this manual is absolutely important, so construction personnel must read it carefully before construction. After properly understanding the entire content of this manual, construction personnel should carry out the construction in strict accordance with the methods specified herein, to ensure that the product is safely and properly installed in place.

Routine airport maintenance personnel should carry out the routine maintenance in strict accordance with the methods specified by relevant provisions, to ensure that the lighting fixtures are in the best operation condition.

Related personnel must strictly follow safety criterion. Any personnel without specialized training is strictly forbidden to touch the lighting fixtures and devices. Live line work should be avoided under any circumstances. Construction or maintenance personnel should get acquainted with first-aid knowledge, in case of any unexpected events.



1.1 Illustrations and Meanings

- Following illustrations will appear in this manual where necessary to remind or warn construction or maintenance personnel.
- Please continue reading the subsequent content of this manual after properly understanding the meanings of these illustrations.



- To remind that the behavior may cause serious injury or death.
- * Detailed description will be given in the box.



- To remind that the behavior may cause injury to people or damage to product.
- * Detailed description will be given in the box.



- To notify that the behavior is prohibited.
- * Detailed description will be given in the box.



1.2 Safety Rules and Notices



- Using the light fixtures outside of airport is strictly prohibited.
- * Inadequate maintenance or casual touch will cause light faults.



- Using power supply other than CCR is strictly prohibited.
- Other power supply may cause damage to light source or other component of the lighting fixtures, or even malfunctions of power supply.



- Making sure that CCR is on power-off state before the installation or maintenance of the lighting fixtures.
- Current surge produced during the installation of the lighting fixtures may cause damage
 to light source.



- Non-professional electricians are strictly forbidden to maintain any electrical fault of the lighting fixtures.
- * It may damage any electrical component of the lighting fixtures or cause bigger fault.



- Live line maintenance of the lighting fixtures is strictly prohibited; in case of lightning and/or thunderstorm, maintenance of the lighting fixtures is prohibited.
- ※ It may cause electric shock accident.



- Be careful when handling the lighting fixtures.
- * Falling to the ground may cause damage of the optical cover or other internal components of the lighting fixtures and injury of personnel.



- Replace the lead immediately in case the jacket of second cable is damaged.
- * It may cause short circuit, electric shock or other failure.



- Don't touch the damaged optical cover or other glass directly with hands.



- Touching the lighting fixtures with wet hand is strictly prohibited.
- * It may cause electric shock or other accident.



1.3 Quality Assurance and Responsibility

Any defect in design, material or workmanship, which may occur during proper and normal use over a period of one year from date of installation but less than 15 months from date of shipment, or within the warranty period of the tender, will be repaired or preplaced by manufacturer free of charge. The warranty doesn't cover the failures resulting from lamp burnt out, improper maintenance, installation or operation, or damages due to snow ploughs. Manufacturer shall not be liable to any further claims or particularly claims for damages not affecting the goods themselves.

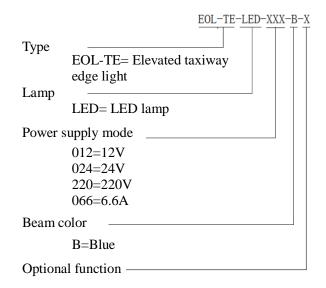


2.0 Introduction to Lighting fixtures

This manual involves the following series lighting fixtures:

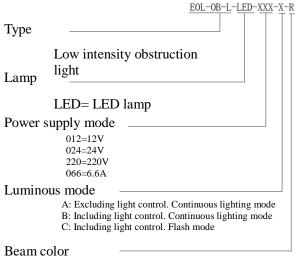
EOL-TE-LED------LED Elevated Taxiway Edge Light
EOL-OB-LED------LED Low Intensity Obstruction Light

Type of LED Elevated Taxiway Edge Light (EOL-TE-LED):



M= single lamp fault detection function

Type of LED low intensity obstruction light (EOL-OB-LED):



R= Red



2.1 Technical Specifications

This product conforms to the provisions of the following standards or technical specifications. For dated standards or technical specifications, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- International Electrotechnical Commission (IEC) TS 61827;
- Convention on International Civil Aviation Annex 14- Aerodromes Volume 1;
- International Civil Aviation Organization (ICAO)- *Aerodrome Design Manual* Part 4: Visual Aids;
- Federal Aviation Administration (FAA) AC150/5345-46;
- Federal Aviation Administration (FAA) EB 67;
- GB/T 7256 General Requirements of Lighting Fixtures for Civil Airport;
- Department of Airport of Civil Aviation Administration of China: Advisory Circular, *Technical Requirements for Runway and Taxiway Aid Lighting Fixtures* (AC-137-CA-2015-03);
- Department of Airport of Civil Aviation Administration of China, Advisory Circular, *General Technical Requirements for Civil Airport LED Aid Lighting Fixtures* (AC-137-CA-2015-01);



2.2 Application Environment

• Altitude: below 4,000m;

 \circ Outdoor: -55°C \sim +55°C;

• Relative air humidity: not more than 95%;

o In rain, snow, ice and water;

• Expose to corrosive salt atmosphere.

o Basic earthquake intensity VII.

2.3 Application Scope

Elevated taxiway edge light and low intensity obstruction light for Category I, II and III airports.



- Using the lighting fixtures beyond the specified scope is strictly prohibited.
- ※ Application beyond the specified scope will cause damage or risk to any component.

2.4 Technical Parameters

Rated Power	Life of Light Source	
XXX-B-X 4VA	≥50,000h	
-XXX-X-R 4VA	≥50,000h	
	XXX-B-X 4VA	



2.5 Technical Features

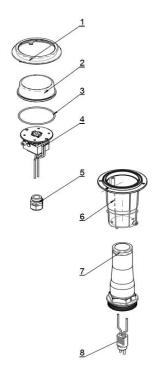
- Long life, energy saving, maintenance free and other characteristics of LED will bring huge economic benefits to customers;
- Prism with proprietary inverse taper structure is used, with high light utilization rate;
- Strict luminous angle of 0-6° ensures that the short-distance lighting fixtures do not make the pilot dizzy;
- Dimming curve of the lighting fixtures is consistent with the change of halogen lamp, and meets the requirements of FAA;
- Strict LED color management ensures the consistency of light color;
- The prism is made of the glass, whose surface resists the erosion of wind and sand;
- Unique taper design of the prism edge effectively prevents accumulation of rain, snow, wind and sand;
- Proprietary drive circuit and thermal management solution greatly improve the reliability and service life of the lighting fixtures;
- Power factor is greater than 0.9, which minimizes the grid interference;
- Optional single lamp fault detection function enables the light to be open as halogen lamp once
 LED fails;
- Compact structure, attractive appearance, small windward area and strong wind resistance capability;
- Main body of the lighting fixtures is made of aluminum alloy material with special anodizing surface treatment, and all fasteners are made of stainless steel, thus being applicable to all kinds of harsh environment;
- High precision components machining ensures dimensional quality and precision of the lighting fixtures;
- Forged frangible device with precise machining, complying with FAA standards and ensuring stable and reliable performance;



- The overall IP rating of the lighting fixtures reaches IP65, and it is difficult for the dust to be deposited in them;
- A level tester may be directly placed on top of the lighting fixture prism for adjusting the level angle of the lighting fixture;

2.6 Structure

- 1. Cover bracket
- 2. Prism
- 3. Body gasket
- 4. Lamp assy
- 5. Waterproof gland
- 6. Light body
- 7. Frangible pole
- 8. Plug

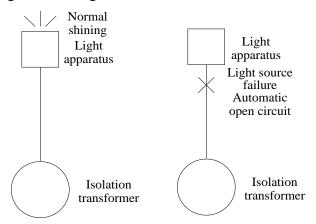




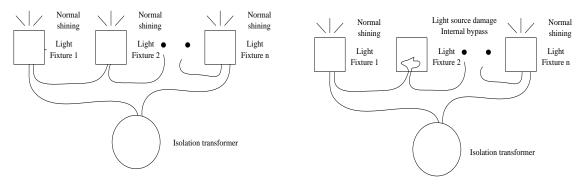
2.7 Fault Detection or Lamp Bypass Functions

This product complies with the requirements of FAA EB67 and GB/T 7256, and integrates single lamp fault detection function; or, it can provide the option of lamp bypass function in accordance with the requirements of FAA AC150-5345/46.

Single lamp fault detection function: The light will take automatic action to cut off the input when any malfunction occurs on the lamp and achieve an effect similar as the open circuit of ordinary halogen light once it is burnt. This function is generally used in conjunction with single lamp controller, to help single lamp control and monitoring system to identify any failed light. And it is integrated into the interior of the lighting fixtures, without need of any external device. Please specify this function during the ordering if needed.



Lamp bypass function: After any failure occurs to the lamp, relatively, the input terminal of light will be short to the isolation transformer. This function is generally applicable to occasions that one isolation transformer carries multiple lighting fixtures. If one or more of these lighting fixtures is or are damaged, the remaining lighting fixtures will not go out thereby. This function is integrated into the interior of the lighting fixtures, without need of any external device. Please specify this function during the ordering if needed.





3.0 Installation

Requirements for installation should be learned thoroughly before installation including installation tools and site requirement, etc., to avoid malfunction of the light due to incorrect installation.

It is very important to correctly install the lighting fixtures according to the design and site situation. The site cleaning, connection of the lighting fixture connector and level calibration of the lighting fixture will directly impact the normal function of the lighting fixtures.



- The manufacturer requires the professional to install the lighting fixtures.
- * The professional may ensure the normal operation of the lighting fixtures.

Prior to installation of the lighting fixtures, first check whether their parts, especially the glass parts are intact. Their standard packaging is two lighting fixtures per box and the flange is their accessory, which is separately packed. Carefully take out the lighting fixtures to avoid damaging their assy;



- When unpacking the lighting fixtures, please note whether the carton is intact.
- * Damage to the carton may damage to the lighting fixture components.

There are three installation methods on the lighting fixture site, including flange floor installation, embedded pipe installation and deep bucket installation. The installation methods of the lighting fixtures corresponding to three different installation requirements are different a little.



- The installation description of the lighting fixtures below is very important, please carefully read it.
- * Improper installation method is a main cause of failure of lighting fixtures.



3.1 Installation Tools

Choosing right tools not only can ensure the correct and reliable installation of the lighting fixtures, but also can reduce unnecessary safety accidents. *Special Tools* listed in the table may be purchased from the manufacturer or any distributor. Universal tools are available on local hardware market. Please pay attention to measurement range during procurement.

 Special tool- Elevated light nut wrench: be used to dismount the lighting fixtures, and available directly from the manufacturer or any distributor.



 Universal tool- Torque screwdriver: be used to dismount screw, equipped with PH2 cross screwdriver, and sellable in various hardware stores.



Recommended range is 1-6N.m.

3.2 Screw and Torsion

The torque listed in this section is only for reference by maintenance personnel. Correct fastening force of screw can ensure normal operation of the lighting fixtures. If screw is too tight, it will easily damage the lighting fixtures; on the contrary, if screw is easy to fly out, it may cause an accident.

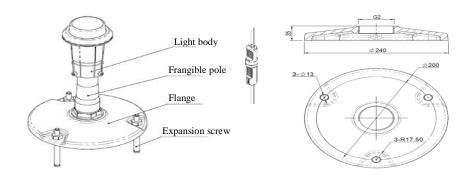
Serial No.	Screw Type	Tool	Torque
1	M6 screw	Internal hexagonal wrench	5 N⋅m
2	M4 screw	Force measuring screwdriver with cross screwdriver (PH2)	1.5 N·m



- Please use torque wench or other special tool for installation.
- ※ Informal tools may cause damage to fasteners or personal injury.



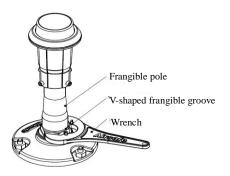
3.3 Installation Method I: Installation of Flange Supporting Pavement



- 1. After taking out the lighting fixture, gently screw the flange onto the frangible pole at its lower part.
- 2. Connect A6 plug of the lighting fixture with the secondary connector of the isolation transformer or A7 receptacle, which must be reliable and ensure that there are no impurities between the plug and receptacle.
 - 3. Fix the flange with M10x50 expansion screws at the correct position.



- Pressing the lead is prohibited during installation.
- Otherwise it may cause water to enter the lighting fixture or other failure
 of the lighting fixture.
- 4. Apply force to screw the lighting fixture with a special wrench provided by the factory, with its opening placed on the hexagonal plane under the V-shaped frangible groove on the frangible pole.



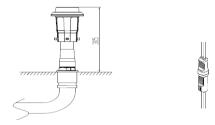
"Elevated light nut wrench" is a special tool, please order it from the manufacturer.



- The wrench must be placed in the hexagonal plane under V-shaped tank of the frangible point for applying force.
- * The frangible pole may be damaged or broken.

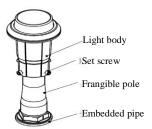


3.4 Installation Method II: Installation of Embedded Pipe without Flange



There shall be G2 thread on the embedded pipe.

- 1. When the A6 plug of the lighting fixture is connected with the secondary connector of the isolation transformer or A7 receptacle, it must be reliable and ensure that there are no impurities between the plug and receptacle.
- 2. Before the light body is screwed into G2 embedded pipe, in order to avoid the final broken cable resulting from the cable strand in the lighting fixture, the set screw connecting the light body and frangible pole must be first unscrewed and ensure that the light body on the lighting fixture is not loosened when the lighting fixture is screwed in. The position of the set screw is shown in Figure below:



3. After unscrewing the set screw, stably hold the light body with left hand, rotate the frangible pole with right hand clockwise, gently screw the frangible pole into the G2 thread opening of the upper opening of the embedded pipe when the light body is stable, until it is completely screwed in. If the watertightness is required, the raw material belt shall be wound outside the G2 thread of the frangible pole.



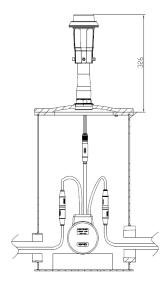
- The upper light body must be kept stable when the frangible pole is rotated.
- * It may cause water entry into the lighting fixtures or other faults of the lighting fixtures.
- 4. Apply force to screw the frangible pole with a special wrench provided by the factory, with its opening placed on the hexagonal plane under the V-shaped frangible groove on the frangible pole (the same with the installation of the flange supporting pavement).



- The wrench must be placed in the hexagonal plane under V-shaped tank of the frangible point for applying force.
- * The frangible pole may be damaged or broken.
- 5. Make the light body vertical and screw the set screw connecting it with the frangible pole.



3.5 Installation Method 3: Deep Bucket Installation



In order to prevent the isolation transformer from being soaked in water due to accidental inflow of the deep bucket, it is suggested to cushion the isolation transformer or other circuit control boxes with brick or other objects.

When the flange on the deep base is not installed, install the lighting fixture by referring to the "Installation Method I". Please note that wind the raw material belt outside the G2 thread of the frangible pole of the lighting fixture before screwing it into the flange.

When the flange on the deep base has been installed, install the lighting fixture by referring to the "Installation Method II". Please note that wind the raw material belt outside the G2 thread of the frangible pole of the lighting fixture before screwing it into the flange.



- The non-standard tools shall not be used for assembling and dismounting the lighting fixtures.
- * It may cause personal injury or damage to the lighting fixtures.

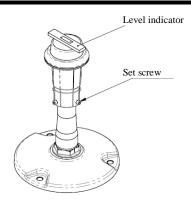


3.6 Level Adjustment of Lighting Fixtures

After the lighting fixtures are installed, their level adjustment must be made to ensure that their luminous angle is correct and reliable.



- The level adjustment of the lighting fixtures is an important part which shall not be omitted for their installation.
- * No level adjustment may impact the overall light distribution effects of the taxiway.



As shown in Figure above, place the level indicator on the upper prism surface of the lighting fixture, with it aligned with any two opposite set screws, finely adjust these two set screws to make the bubble of the level indicator in this director in the middle. Rotate the level indicator for 90° in any direction, finely adjust the other two set screws in the front and rear direction to make the bubble of the level indicator in this director in the middle. Randomly rotate the level indicator and check the lighting fixture level at different angles. The whole fine adjustment process may be repeated until the lighting fixture complies with the level requirements.

Finally, reconfirm that the set screw has been tightened.



- Making sure that the set screw is tightened.
- * Its looseness or drop onto the runway may cause accident.



- Please use the horizontal corrector designated by the manufacturer.
- * It may impact the horizontal adjustment effects of the lighting fixtures.

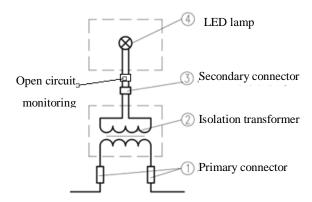


4.0 Operation and Control

This series lighting fixtures have several power supply modes for choice.

The lighting fixtures are applicable to CCR power supply 6.6A circuit special for airports, which forms a secondary circuit with the lighting fixtures through secondary outgoing line of isolation transformer connected on primary circuit. Due to the use of isolation transformer, the damage of lamp of single lighting fixture will not affect whole series circuit.

4.1 6.6A Lighting Fixture Wiring Diagram

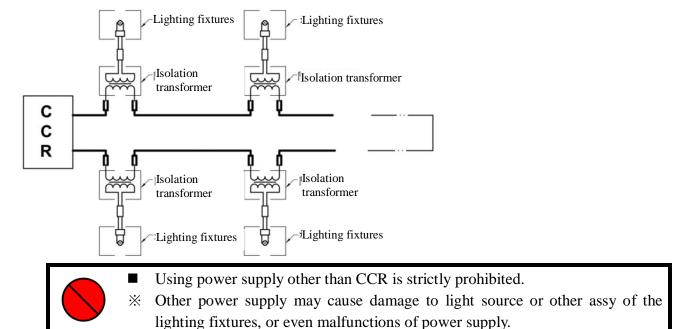




4.2 Light Intensity Control of 6.6A Lighting Fixtures

In actual use, according to weather visibility, light intensity of the lighting fixtures may be adjusted through different current output by CCR, and varies significantly.

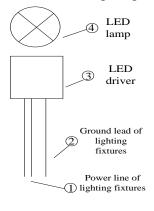
If it is used on occasion of lower than rated current (6.6A), it may greatly improve the service life of lamp.



4.3 Work of Lighting Fixtures with Constant Power Supply

It is applicable to the lighting fixtures in the environment with constant voltage and the supporting lighting fixtures with 12V, 24V and 220V may be selected.

The lighting fixture has 3 leads: Power supply and grounding. The power supply is the AC power supply and the grounding shall be reliable. The wiring diagram is as follows:





5.0 Replacement of Components of Lighting Fixtures

When any damage or failure occurs to any consumable or other component of the lighting fixtures, it is required to timely dismantle the lighting fixtures for replacement of the component. Replacement of components needs to dismount the lighting fixtures, so any minor error will cause adverse consequences. The manufacturer requires users to attach importance to the following warnings. It is required to be careful during disassembly, to conduct comprehensive inspection of lighting fixtures, to replace some vulnerable parts as required, and to ensure the performance of the lighting fixtures after disassembly.



- Replacement of components must be conducted by personnel who have received professional training.
- * To avoid various failures of the lighting fixtures.



- It is suggested that maintenance of the lighting fixtures be carried out in lighting station or workshop.
- * Any impurities mixed in the lighting fixtures may cause any failure of the lighting fixtures.



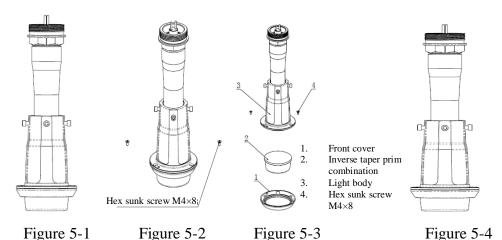
- The manufacturer suggests that various gaskets should be replaced during each maintenance of the lighting fixtures.
- * Aging and damage of gaskets are the main reasons for the leakage of lighting fixtures.



- The non-standard tools shall not be used for assembling and dismounting the lighting fixtures.
- * It may cause personal injury or damage to the lighting fixtures.



5.1 How to Replace Inverse Taper Prism



- Place the lighting fixture top downwards (Figure 5-1).
- Unscrew 3 M4 hex sunk screws with a socket head wrench (Figure 5-2). 3.
- Take out the front cover, inverse taper prism and light body gasket in succession (Figure 5-3).
- Reverse the direction to make the light head upward and clean the seal groove to ensure that there are no impurities.
- Place the light body gasket into the seal groove and press a new inverse taper prism (notes: Ensure that the light body gasket shall not drop during installation).



2.

- Confirm that there are no impurities in the light body gasket and seal groove.
- Otherwise they may cause water leakage or abnormal operation of the lighting fixtures.
- Cover the front cover. Please note that the locating pin on it shall be aligned with the corresponding hole on the light body.
- 7. Place the lighting fixture top downwards and screw three lock screws on the lower side of the outer edge of the upper part of the lighting fixture (Figure 5-4).



5.2 How to Replace Lamp and Drive

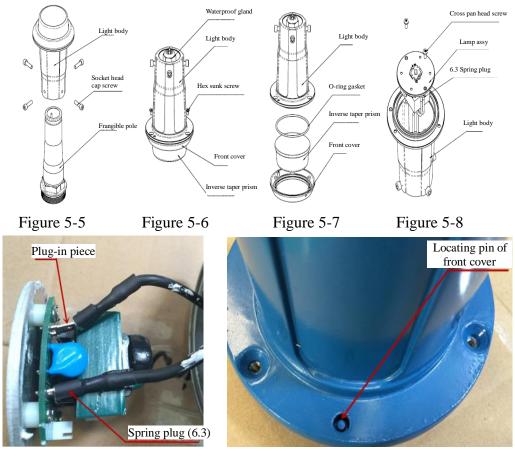


Figure 5-9 Figure 5-10

Description: Integrated design of the lamp and drive. If any one of them is damaged, they must be replaced at the same time.

- 1. Unscrew hexagon socket cap screw M6 with a socket head wrench and take out the frangible pole (see Figure 5-5).
- 2. Place the lighting fixture top downwards, please protect the inverse taper prism and unscrew the waterproof gland cap; unscrew 3 M4 hex sunk screws with the socket head wrench (Figure 5-6) and dismount the front cover, inverse taper prism and light body gasket in succession (Figure 5-7).
- 3. Make the lighting fixture lamp upward and take out 2 cross pan head screws M4 with a cross screwdriver after unscrewing them (Figure 5-8).
- 4. Separate the lamp assy from the light body, pull out the spring plug on the plug-in piece (Figure



5-9), replace a new lamp assy, insert the spring plug onto the plug-in piece (Figure 5-9), load it into the light body and screw the cross pan head screw.



- The external protective cover of the spring plug shall not be damaged.
- * Otherwise it may cause electric short circuit.
- 5. Clean the seal groove to ensure that there are no impurities in it, place the light body gasket into the seal groove and press the inverse taper prism.



- Confirm that there are no impurities in the light body gasket and seal groove.
- X Otherwise they may cause water leakage or abnormal operation of the lighting fixtures.
- 6. Cover the front cover. Please note that the locating pin on it is aligned with the corresponding hole on the light body (Figure 5-10).
- 7. Reversely rotate the lighting fixture, place its top downwards and screw three lock screws on the lower side of the outer edge of the upper part of the light body (2.5mm socket head wrench).
- 8. Gently pull A6 twin-core plug to make A6 cable in the light body flat and straight and screw the waterproof gland cap.
- 9. The locking light body and frangible pole are fixed with lock screws (5mm 5mm).



5.3 How to Replace Frangible Pole

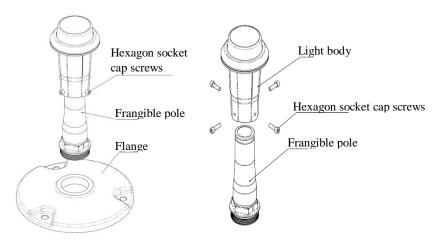


Figure 5-11 Figure 5-12

- 1. Take out the frangible pole from the flange with an elevated light nut wrench after unscrewing it (Figure 5-11).
- 2. Unscrew the hexagon socket cap screw fixing the frangible pole with a 5mm socket head wrench (Figure 5-12).
- 3. Take out the frangible pole, replace it with a new one and screw the light body and frangible pole with a 5mm socket head wrench.
- 4. Screw the new frangible pole onto the flange with an elevated nut wrench.



- The wrench must be placed in the hexagonal plane under V-shaped tank of the frangible point for applying force.
- * The frangible pole may be damaged or broken.



6.0 Maintenance of Lighting Fixtures

Suggestions for daily maintenance provided in this section are only for reference. Airports may formulate their own daily maintenance guidelines with reference to other provisions or maintenance experience of airport staff; the manufacturer does not provide any hard-and-fast rules.

Maintenance of the lighting fixtures for airports shall be conducted by professionals as stated in 1.0 Foreword.

6.1 Daily Maintenance

Interval	Check	Activity			
	No light output or flashing	Replace LED lamp assy.			
		1. If optical cover surface is dirty, wipe it up.			
Every day	Light output is lower	2. Check deviation or moisture of the lighting			
	Light output is lower	fixtures.			
		3. Check aging or displacement of LED.			
Every week	Obstacles to light output channel	Clean surface of route and optical cover.			
	F-:	1. Open the body.			
F	, and the second	2. Clean, dry and check.			
Every month		3. Replace gasket and any other damaged			
	of prism)	components.			
Every two	Tiske de serve	Check whether screw for tightening light body is			
months	Tighten the screws	locked.			
After snow	Damage to lighting fixtures	Replace seriously damaged light.			
removal	Damage to lighting fixtures	1. Replace seriously damaged light.			
		1. Sweep snow on the optical cover away.			
After snow		2. If optical cover surface is dirty, wipe it up.			
	Light output is lower	3. Check deviation or moisture of the lighting			
removal		fixtures.			
		4. Check aging or displacement of LED.			



6.2 Regular Spot Check and Troubleshooting

Serial No.	Failure Phenomenon	Possible Reasons	Countermeasures
1	LED lamp assy failure	LED aging or other unknown failure	Replace LED lamp assy or send lighting fixtures back to factory for repair.
2	The lighting fixtures is	There are some stains on	Clean up stains on optical
	darker	optical cover surface	cover surface.
3	Existence of moisture	Damage to front glass or	Panlaga front glass or gaskat
	and water	gasket	Replace front glass or gasket.



- The manufacturer suggests that times of daily maintenance should be increased in rainy season.
- ※ To ensure normal operation of lighting fixtures.



- The wrench must be placed in the hexagonal plane under V-shaped tank of the frangible point for applying force.
- * The frangible pole may be damaged or broken.



- Taking down the lighting fixture prism on-site without authorization is prohibited.
- * Otherwise it may cause water seepage or other failure of the lighting fixtures.



- Only professional operator is allowed to dismount and assemble the lighting fixtures.
- * It may cause fault of the lighting fixtures.



- Unless the frangible pole is replaced, do not dismount the assys of the extension pole and frangible pole.
- * It may damage the frangible pole.



7.0 List of Components and Ordering of Spare Articles and

Accessories

The table in this chapter lists the components, spare articles and accessories of this product and relevant ordering information. Spare articles and accessories of this product needs to be ordered additionally, and the manufacturer accepts the order in assembly mode and separate order of components. When ordering, please contact the manufacturer or any distributer according to order number listed in the table. The manufacturer suggests that some important components should be purchased from original factory to ensure various indicators of the lighting fixtures.

List of components and spare articles:

Structure No.	Component Name	Order No.	Description	
1	Corren has alvet	11515 V	44515-B front cover- blue	
1	Cover bracket	44515-X	44515-R front cover- red	
2	Prism	931116	Inverse taper prism III (assy)	
3	Body gasket	41114	O-gasket 71×2.65	
4	I	44512	Lamp assy (Taxiway edge lights)	
4	Lamp assy	44518	Lamp assy (Low intensity obstruction light)	
5	Waterproof gland	M20×1.5	Nylon waterproof gland M20×1.5	
6	Dody	44516-X	44516-B Light body (V)Blue	
0	Body	44516-X	44516-R Light body (V)Red	
7	Frangible pole	24211	Frangible pole	
8	Plug	70603	A6 dual-core plug	

List of supporting accessories of this product is as follows (needing additional order):

Serial No.	Order No.	Description
1	276A1	Flange 240mm
2	70703	A7 dual-core socket
3	54101	Elevated light nut wrench
4	27683	Flange 304mm (FAA standard)
5	954211	Corrector assy
6	TJB-12-L867	L867 deep bucket
7	ITF-15-066	15W isolation transformer





- Please order the prism from us when it is damaged.
- * As a uniquely designed optical component, the prism shall not be replaced.



- If secondary plug is damaged, please order it from our company.
- * Other brand plug may cause light leakage and other failures.



- When LED lamp cannot work normally, please send body to our company.
- * Users should not open the body for repair without authorization.



- When any frangible article is damaged, please order it from our company.
- * Frangible articles are components special for the lighting fixtures, and cannot be replaced.



8.0 Packaging, Transportation and Storage

8.1 Packaging and Weight

Packaging: 4 pcs / box (excluding flange)

Gross weight: 5.2 KG / box

Volume: 300*255*380

8.2 Transportation Mode

Well packed products may be transported in three modes- railway, highway and air according to factors such as transportation distance, quantity of lights and delivery cycle.

8.3 Storage

This product shall be stored in a place which is dry, well ventilated and far away from heat source and has no caustic gas. Custody should be checked on a regular basis.



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Thanks for your purchasing and using AIRSAFE product!

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