

Approach
Medium Intensity
Omnidirectional
Elevated Light



Type
ABI-H

RECORD OF CHANGES				
Rev.	Page	Description	Checked	Approved

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

The operating and maintenance personnel should refer to the FAA Advisory Circular AC 150/5340-26 "Maintenance of Airport Visual Aid Facilities" for instructions on safety precautions. Personnel must observe the safety regulations at all times. While every practicable safety precaution has been incorporated in this equipment, the following rules must be strictly observed.

KEEP AWAY FROM LIVE CIRCUITS

Operating and maintenance personnel must at all time observe all safety regulations. Do not change lamps nor components or make adjustments inside equipment with the light circuit ON. See FAA Advisory Circular AC 150/5340-26 concerning safety.

RESUSCITATION

Operating and maintenance personnel should familiarize themselves with the technique for resuscitation found in the First Aid Instruction Manual.

USE RESTRICTION NOTICE

This Instruction Manual is the property of
n.v. ADB s.a.

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GUARANTEE

n.v. ADB s.a. undertake to remedy any defect resulting from faulty materials or workmanship appearing during a period of one year after date of shipment. Exclusive lamps or any defect developing as a result of improper use or handling.

Repair and replacement will take place in our factory. Such correction shall constitute the limit of our liabilities with respect to equipment.

A. DESCRIPTION

Refer To : drawing 4070.69.640 B
catalogue sheet A.02.160 e

The ADB high intensity elevated edge marker light is designed and manufactured for rugged service and long life. The number of components is reduced to a minimum. The light consists essentially of a fitting body and ball joint mounted on a ball joint support and a (eventually coloured) heat-resistant glass lens housing the lamp.

The component parts are cast from high grade aluminium alloy. The lens and fitting body is removable as one assembly for easy relamping.

A thumb screw securely holds the lens against to the fitting body.

Easy levelling is obtained using the ball joint and the four levelling screws.

The light emits an omni-directional beam which provides "circling guidance" in medium or low intensity approach systems.

The light, meets photometric requirements.

Mounting

The AD1-II can be used either as the low intensity top-light superimposed on a high intensity unidirectional approach light, on a safety approach mast or on a 1" dia conduit.

B. INSTALLATION AND ORIENTATION

1. Remove entire light assembly from cardboard box.
2. Unscrew the thumb screws securing the light body to the ball joint.
3. Introduce the cable via the cable strain reliever.
4. Mount the fitting to the mounting system and turn the light until the arrow moulded in the lens (marked "RUNWAY SIDE") is directed towards the runway.
5. Remove the top assembly.
6. Level the housing by means of the ball joint until a watergauge placed on top of the ball joint alternatively in two directions under an angle of 90° shows that the fitting is levelled.

Note: the four levelling screws should be slightly tight.
When this is accomplished, tighten the four levelling screws.

7. Remove the watergauge and place the lamp, in the lampholder

C. RELAMPING

Note: A systematic replacement of all the lamps of a circuit is recommended after a period of operation at 100% brightness corresponding to 80% of their rated life.

This preventive relamping avoids sudden and unexpected failures and saves numerous journeys for the maintenance team.

The operation at the lower brightness steps has only little influence on the effective life of the lamp.

1. Remove top assembly by unscrewing the thumb screw.
2. The lamp can easily be removed by simply pulling her out of the lampholder. Insert a new lamp.
3. Replace top assembly and secure thumb screw.

D. MAINTENANCE

Weekly

- a. Check all lights for proper operation and replace burnt-out lamps.
- b. Check the external appearance of the glassware.
Clean with alcohol-soaked soft cotton.
Replace broken parts.

Twice a year

- a. Check the electrical connections and the condition of the lampholder.
- b. Check, clean or replace glassware if necessary.
- c. Lock all screws and nuts, and secure the fitting to its mounting system.
- d. Check the levelling and the orientation of the fitting.
- e. Check the coating of the fitting.
Paint anew if necessary.