

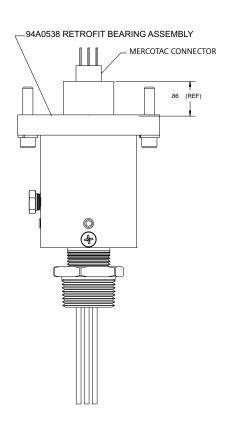
# L-807/L-806 LED Wind Cone Cage Bearing Upgrade Kit

# Size 1 and 2 to bolted cage

Installation Manual

# **Document Number**

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# **ADB Airfield Solutions**

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# 2.0 Replacing the Bearing

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# WARNING

Read the instructions in their entirety before starting installation.

Do not attempt to service electrical equipment if standing water is present. Use caution when servicing electrical equipment in a high-humidity environment.

Use tools with insulated handles when working with electrical equipment.

Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

Read and understand the instruction label affixed to the side of the wind cone pole on the Lowering Instructions before lowering the pole.

Lowering the pole unassisted could result in personal injury or damage to the pole assembly.

# 2.1 Introduction

This service bulletin provides instructions to install a new ADB Hinged Pole Windcone Kit on an L-806 Wind Cone Assembly that has been supplied by ADB since 2005.

# 2.2 Special Tools and Equipment Required

Tools and equipment required to install an ADB Windcone Bearing Kit.

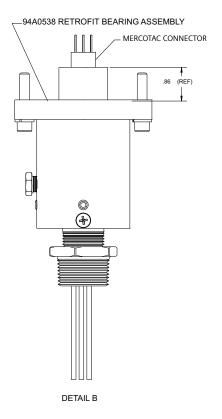
Required Equipment Not Supplied See wiring diagrams:

- 43A3418/V Wiring Diagram Voltage Driven
- 43A3418/C Wiring Diagram Current Driven

Table 2.1. Required Equipment Not Supplied

Description						
Wrenches for 1/4 inch hex screws and nuts						
Allen hex keys for 5/64 inch, 3/16 inch and 1/4						
inch						
16" Pipe Wrench						
Medium size blade screwdriver						
Miniture size blade screwdriver						
Anti-seize compound						
L-806 Instruction Manual 96A0352 or						
L-807 Instruction Manual 96A0345						

Figure 2.1. Bearing Assembly



### Replacing the Bearing

### General Instructions

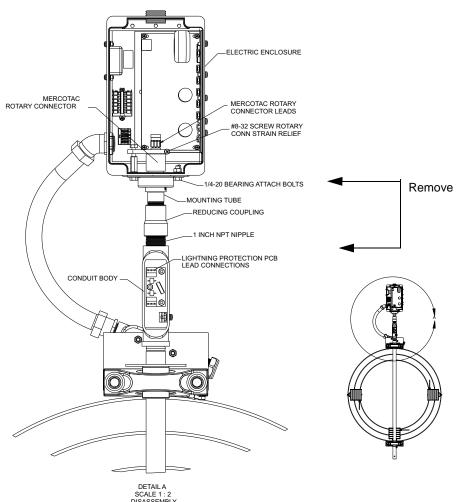
# 2.3 General Instructions

Read and understand all instructions before working on the wind cone. De-energize the field circuit connected to the wind cone before replacing the bearing. The assemblies can be powered by either a series circuit or a voltage power.

# **Disassembly Instructions**

- 1. Turn off the power to the windcone
- 2. Remove the covers from the electric enclosure and the conduit body.
- 3. Disconnect the leads from the lightning protection printed circuit board (PCB).
- 4. Disconnect the leads from the Mercotac rotary connector.
- 5. Loosen the screw in the rotary connector strain relief. Slide the strain relief off the Mercotac rotating connector.
- 6. Remove the 1/4-20 bolts attaching the bearing to the electric enclosure and lift the enclosure over the rotating connector.
- 7. Loosen the #8 set screw at the base of the Mercotac connector and remove the connector and the leads from the bearing assembly. Save the connector and the leads for reinstallation.
- 8. Remove the 1-inch pipe nipple, the reducing coupling, and the mounting tube from the conduit body.

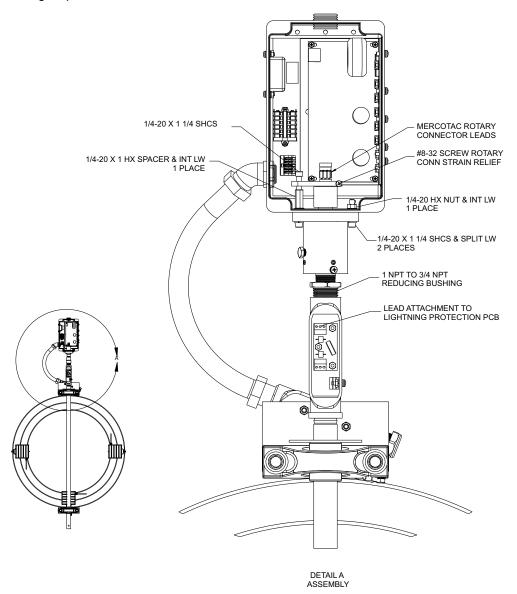
Figure 2.2. Existing Windcone Bearing Removal



### **Assembly Instructions**

- 1. Insert the Mercotac connector and leads into the 94A0538 retrofit bearing assembly per Figure 2.1.
- 2. Thread 1 Npt to 3/4 NPT reducing bushing into the conduit body. Tighten securely, install with locking pipe thread sealant.
- 3. Attach the leads to the lightning protection PCB. See the appropriate wiring diagram to assure correct polarity.
- 4. Mount the enclosure on the top surface of the dual bearing assembly and then, install the noted fasteners. Assemble with a thin coat of silicon sealant on the upper surface of the dual bearing assembly.
- 5. Reinstall the rotary connector strain relief tighten the #8-32 screw.
- 6. Install the 1/4-20 x 1 1/4 SHCS thru the clearance hole in the rotary connector strain relief.
- 7. Attach the leads to the Mercotac rotary connector. Check the continuity to determine the polarity. See the appropriate wiring diagram to assure the correct polarity.
- 8. Replace the covers and reconnect the power.

Figure 2.3. Bearing Replacement



# ? - Replacing the Bearing

# Replacing the Bearing

General Instructions

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