

# Service Bulletin

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Machinery Affected: *RoofTracker™, RoofGlider®*, Roller Gantry, and *RailRider™* Presses

Document: SB174

Title: Replacing the Beacon Light Assembly

Applies To: Replacing a Beacon Used Prior to 2006 With a *Triliptical® Adaptabeacon* by *Edwards Signaling & Security Systems®*



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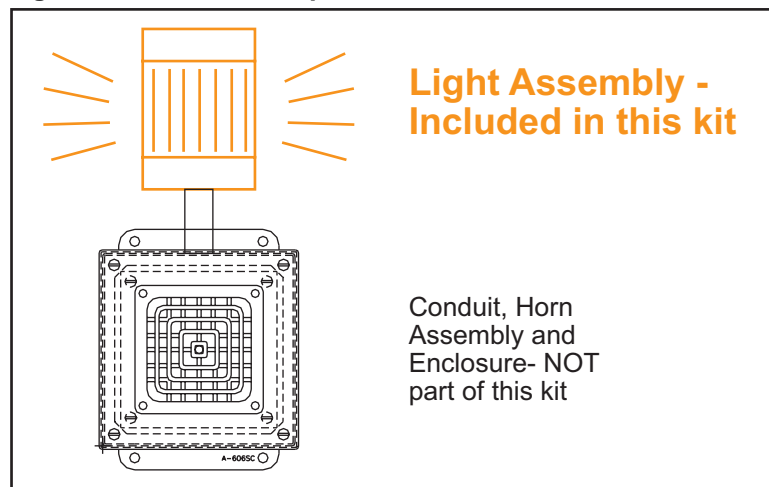
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Effectivity	2006

## Purpose and Scope

The beacon light assembly used on *MiTek* gantry heads prior to 2006 has been discontinued. This kit and the instructions in this document are for replacing the light assembly with a *Triliptical<sup>®</sup> Adaptabeacon* light assembly manufactured by *Edwards Signaling & Security Systems<sup>®</sup>*. The light assembly is shown in orange in Figure 1.

This document and kit do not address the replacement of the horn or enclosure to which the beacon is mounted.

**Figure 1: Parts to Be Replaced**



## Overview

Refer to Table 1 to determine which kit your equipment requires.

**Table 1: Kits Available for SB174**

For This Equipment...	Use This Kit...
<i>RoofGlider<sup>®</sup>, any Tee-Lok<sup>®</sup> gantry, any stacker</i>	SB174KIT-A
<i>RoofTracker<sup>™</sup>, FloorTracker<sup>™</sup>, AutoPress<sup>™</sup></i>	SB174KIT-B

The parts included in each kit are listed in Table 2 and Table 3. Please ensure all parts are present before starting the procedure.

**Table 2: Parts in SB174KIT-A**

Qty.	Description	Part Number
1	Beacon tower base, conduit-mount base	513521
1	Lens, amber	513522
1	Beacon light with LED assembly	513523

**Table 3: Parts in SB174KIT-B**

Qty.	Description	Part Number
1	Beacon tower base, direct-mount base	513574
1	Lens, amber	513522
1	Beacon light with LED assembly	513523

Before beginning the procedure, gather the supplies listed in Table 4.

**Table 4: Customer-Supplied Items**

Supplies Needed
lock and tag for lockout/tagout
wire nuts
insulated pliers
small Phillips screwdriver


If you have any questions, call MiTek Machinery Division at 800-523-3380.

## Procedure

### Lockout/Tagout Procedure



1. Turn off all power to the equipment, following your company's approved lockout/tagout procedures and the steps below.

WARNING	
	<p><b>ELECTROCUTION HAZARD.</b></p> <p><b>Always verify that all power to the machine has been turned off and follow approved lockout/tagout safety procedures (OSHA 29 CFR 1910.147) before performing any maintenance on this equipment.</b></p> <p><b>If it is absolutely necessary to troubleshoot an energized machine, follow NFPA 70E for proper procedures and personal protective equipment.</b></p>

- a) Engage an E-stop.
  - b) Lockout/tagout at the disconnect switch on the main electrical enclosure located on the machine.
2. Using a multimeter, verify that the power is off.

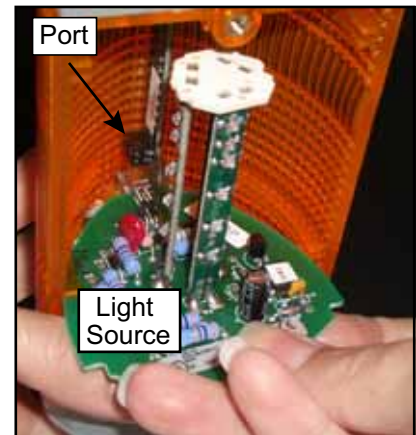
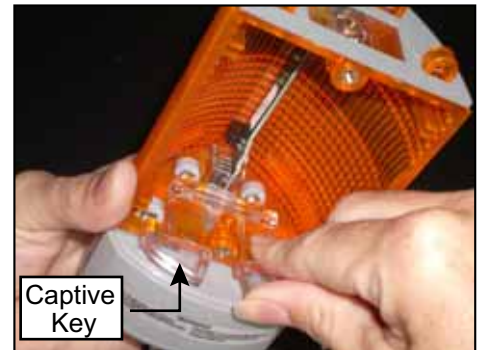
## Assembling the New Light Assembly



Refer to Figure 2

1. Place the pins on the bottom of the lens into the sockets located on the beacon tower base.
2. Push in the captive key until all 4 pins on the captive key slide completely into the 4 plastic loops showing through the bottom of the lens. You will hear it snap in place.
3. Slide the light source into the lens so that the 4 pins on the back side of the light source slide into the port mounted inside the lens.
4. Put the lens cover over the open side of the lens and screw in place.
5. Screw the lens top in place.

Figure 2: Assembling the Light



## Replacing the Light Assembly



1. Ensure that the electrical power is disconnected as described in the *Lockout/Tagout Procedure* section on page 4.
2. Remove the old light assembly:
  - a) Kit A: For a conduit-mounted beacon, follow these steps. The light assembly is shown in orange in Figure 1.
    - 1) Disconnect the wiring inside the horn enclosure.
    - 2) Detach the old light assembly from the 3/4-in. conduit.
    - 3) Remove the conduit from the horn enclosure by disconnecting the locking ring.
    - 4) Remove the light assembly from the conduit.
    - 5) Discard the old light assembly, but keep the conduit for re-use.
  - b) Kit B: For a direct-mount beacon, follow these steps. The light assembly is shown in orange in Figure 1, but your beacon is mounted directly to an electrical enclosure without the conduit.
    - 1) Disconnect the beacon's wiring from the equipment's electrical circuit inside the enclosure.
    - 2) Remove the screws from inside the electrical enclosure that are holding the beacon in place.
    - 3) Discard the light assembly and hardware.
3. Attach the new light assembly:
  - a) Kit A: For a conduit-mounted beacon, follow these steps.
    - 1) Thread the wires from the light assembly through the conduit and screw the new light assembly onto the conduit.
    - 2) Connect the conduit to the horn enclosure by feeding the locking nut onto the conduit end and tighten with channel locks.
  - b) Kit B: For a direct-mount beacon, follow these steps.
    - 1) Place the light assembly on the enclosure, with the rubber gasket between the two.
    - 2) Line up the holes in the bottom of the assembly, the gasket, and the electrical enclosure.
    - 3) Insert the screws, with the washers on them, from inside the electrical enclosure and screw into the 2 threaded holes in the light assembly base.
4. Connect the wires from the light assembly to the wires inside the electrical enclosure. Only 2 wires on the new light assembly are needed:



- a) Connect the white wire marked “Neutral” on the light assembly to the neutral wire inside the horn enclosure.
- b) Connect the black wire marked “Bottom” on the light assembly to the hot wire inside the horn enclosure.
- c) Roll the extra wires up inside the electrical enclosure and secure them with a cable tie. They are supplied to allow for a stacked beacon with multiple lights.

5. Remove the lockout/tagout devices.

END OF SERVICE BULLETIN