

Custom Designed Material Handling Solutions



LEVEL-RITE® Operator Safety Manual

Introduction and operation

Your LEVEL-RITE® Materials Handling System comes complete except for the wiring. Wire the unit to a properly grounded electrical power source.

Once the electrical connections are made, lift the LEVEL-RITE® unit on your hoist or crane hook a few feet in the air. Using the pushbutton controller verify the operation of the bail matches the indications on the unit. If it does not, change any two poles at the power source.

CAUTION: Damage may occur during operation if the tilt angle of the beam is greater than 15 degrees off the horizontal. Adjust the bail under no load to reduce the tilt angle.

Slowly lift the load and using the pushbutton controller, adjust the bail to level the unit.

Reviewing the Decals

Decal sites

Review the included Identification and Safety Standards sheet to ensure that all decals are in place before use.

Inspection procedures

Safe operating practices require scheduled inspection procedures to ensure that the LEVEL-RITE® unit is maintained in a safe operating condition.

Before inspecting or servicing the LEVEL-RITE® unit, disconnect, lock open and tag the power source to prevent power from being applied during inspection or repair procedures (ANSI Standard Z244.1). Before beginning repairs, try the operational controls to verify that the power source is actually disconnected.

The LEVEL-RITE® unit must be inspected visually at the beginning of each shift to be sure it is in safe operating condition. All capacity, weight and safety markings must be in place and legible.

Periodic inspections of the LEVEL-RITE® unit must be scheduled at least every six months. Units used in high duty cycle environments require more frequent inspections. For example, steel mills, foundries and paper mills may need monthly inspections.

Periodic inspections must check for at least the following conditions:

- Loss of weld integrity
- Signs of structural fatigue or deformation
- Wear in excess of 20 percent of original on bail, connecting pins, hooks or associated hardware

Spreader beams with any of these problems must be removed from service immediately.

Items to be lubricated

- LEVEL-RITE® rotation bearings and coupling
- Trolley wheels on bail assembly
- Chain-Sprocket drives
- Gearmotors per manufacturer's maintenance sheets

Bail Inspection

Greater care must be afforded to inspecting the saddle portion of the bail for wear.

1. This is the area of the bail that contacts the crane hook (see illustration below).
2. **DO NOT USE** if the saddle measures less than 80% (4/5) of the original dimension.

Refer to the certified drawing for the original dimension.

3. Inspect for indication of structural fatigue, including but not limited to:
 - a. Cracks in and around the welds.
 - b. General deformation of the structure.

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