

Sun Company 3050-I

Sun Company Industrial Lev-o-gage Mini Boom-L Glass Tube Boom Angle Indicator (Model 3050-I) Instruction Manual

1. INTRODUCTION

This manual provides instructions for the proper installation, operation, and maintenance of the Sun Company Industrial Lev-o-gage Mini Boom-L Glass Tube Boom Angle Indicator, Model 3050-I. This device is designed to accurately display boom angles for industrial applications.

The Mini Boom-L is a robust boom angle indicator, measuring 6.44 inches wide, and capable of displaying angles from -10 to +90 degrees. It is specifically designed for mounting on the **left side** of a boom. Its construction features engraved and hand-painted numerals and hashmarks for durability in harsh environments, a high-visibility Saturn Yellow tube assembly with special damping fluid effective down to -40°F (-40°C), and a fully-enclosed housing to protect the glass tube.

2. SAFETY INFORMATION

Please read and understand all instructions before installation and operation. Failure to follow these instructions may result in inaccurate readings or damage to the unit.

- Ensure the mounting surface is clean, dry, and free of debris for optimal adhesive performance.
- Mount the indicator securely to prevent detachment during operation.
- Regularly inspect the unit for any signs of damage or wear.
- Do not attempt to disassemble the unit; it is a sealed assembly.

3. PACKAGE CONTENTS

- 1 x Sun Company Industrial Lev-o-gage Mini Boom-L Glass Tube Boom Angle Indicator (Model 3050-I)
- Pre-applied 3M Brand Very High Bond pressure-sensitive adhesive foam tape for mounting.

4. SETUP AND INSTALLATION

The Mini Boom-L is designed for straightforward installation using its pre-applied adhesive tape.

1. **Select Mounting Location:** Identify a flat, clean, and stable surface on the **left side** of the boom where the indicator will be clearly visible to the operator. Ensure the surface is free from vibrations that could affect readings.
2. **Prepare Surface:** Clean the chosen mounting surface thoroughly with an appropriate degreaser or alcohol wipe. Allow the surface to dry completely. This step is crucial for the adhesive to bond effectively.
3. **Remove Adhesive Backing:** Carefully peel off the protective liner from the pre-applied 3M Brand Very High Bond pressure-sensitive adhesive foam tape on the back of the indicator.
4. **Position and Apply:** Align the indicator precisely in the desired location. Once positioned, firmly press the indicator onto the surface for at least 30 seconds to ensure maximum adhesion. Apply even pressure across the entire back surface.
5. **Allow for Curing:** For optimal bond strength, allow the adhesive to cure for at least 24 hours before subjecting the boom to heavy operation or extreme conditions.



Figure 1: The Sun Company Mini Boom-L Glass Tube Boom Angle Indicator. This image displays the indicator's face with a range from -10 to 90 degrees, featuring clear, hand-painted numerals and hashmarks, and a high-visibility Saturn Yellow tube assembly.

5. OPERATING INSTRUCTIONS

The Mini Boom-L provides a direct visual indication of the boom's angle.

1. **Reading the Angle:** Observe the position of the bubble within the Saturn Yellow tube assembly. The bubble will align with the corresponding angle marking on the indicator's face.
2. **Angle Range:** The indicator displays angles from -10 degrees to +90 degrees. Positive values indicate an upward angle, while negative values indicate a downward angle.
3. **Damping Fluid:** The special damping fluid helps stabilize the bubble, providing a more accurate and steady reading even in dynamic conditions or varying temperatures down to -40°F (-40°C).

6. MAINTENANCE

The Mini Boom-L is designed for durability and requires minimal maintenance.

- **Cleaning:** Wipe the indicator's face with a soft, damp cloth to remove dust or dirt. Avoid abrasive cleaners or

solvents, as these may damage the markings or housing.

- **Inspection:** Periodically check the adhesive bond to ensure the unit remains securely attached. Inspect the housing for any cracks or damage that could compromise the internal components.
- **Storage:** If the unit is removed for storage, ensure it is kept in a clean, dry environment away from extreme temperatures.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your boom angle indicator.

- **Inaccurate Readings:**
 - Ensure the indicator is mounted on a truly level and stable surface when the boom is at a known angle (e.g., 0 degrees).
 - Check for any obstructions or debris that might be affecting the bubble's movement.
 - Verify that the boom itself is not experiencing excessive vibration.
- **Indicator Detachment:**
 - If the indicator detaches, the mounting surface may not have been adequately cleaned or the adhesive may not have fully cured. Re-clean the surface and re-apply with new, strong industrial-grade double-sided adhesive tape, ensuring proper curing time.
- **Bubble Not Moving Freely:**
 - This is rare due to the damping fluid. Ensure the unit is not physically damaged or bent, which could impede the bubble.

8. SPECIFICATIONS

Feature	Detail
Model Number	3050-I
Brand	Sun Company
Angle Range	-10 to +90 angular degrees
Mounting Side	Left side of boom
Dimensions (L x W x H)	6.44 x 0.92 x 2.86 inches
Item Weight	2.4 ounces
Material	ABS Plastic
Temperature Range	Effective down to -40°F (-40°C)
Mounting Method	Pressure-sensitive adhesive foam tape (3M Brand VHB)

9. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your Sun Company Industrial Lev-o-gage Mini Boom-L, please refer to the manufacturer's official website or contact their customer service department directly. Contact details are typically available on the product packaging or the manufacturer's website.

Manufacturer: Sun Company
ASIN: B0746QX9SW
Date First Available: July 24, 2017

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question