STANLEY STA142920

STANLEY Pro-180 I-Beam Level 600mm Instruction Manual

Model: STA142920 | Part Number: 1-42-920

1. Introduction

Thank you for choosing the STANLEY Pro-180 I-Beam Level. This durable, heavy-duty aluminum level is designed for accurate measurement of horizontal, vertical, and angled surfaces. Featuring three vials, including a 180-degree rotating vial, shock-absorbing end caps, and a pipe groove, it is a versatile tool for various applications. Please read this manual carefully before use to ensure proper operation and longevity of your tool.

2. Safety Information

While the STANLEY Pro-180 I-Beam Level is a simple hand tool, basic safety practices should always be observed.

- Always inspect the level for any damage before use. Do not use if the vials are broken or the frame is bent.
- Keep the level clean and free from debris to ensure accurate readings.
- Store the level in a safe place to prevent damage.
- Use appropriate personal protective equipment (PPE) when working on construction sites or in environments where hazards may be present.

3. Product Overview

The STANLEY Pro-180 I-Beam Level is constructed from durable aluminum and features three high-visibility vials for precise measurements.



Figure 1: Full view of the STANLEY Pro-180 I-Beam Level 600mm. This image displays the overall design, including the yellow I-beam frame, the two fixed vials, and the central rotating vial.

Key Features:

- **Durable I-Beam Aluminum Construction:** Provides strength and rigidity for long-lasting performance.
- **Three Vials:** Includes two fixed vials for horizontal (level) and vertical (plumb) measurements, and one 180-degree rotating vial for angle measurements.
- **Shock-Absorbing End Caps:** Protect the level from impacts and drops, enhancing durability.
- **Pipe Groove:** Designed for stable placement on rounded surfaces such as pipes or conduits.

4. Setup

The STANLEY Pro-180 I-Beam Level requires minimal setup.

1. **Unpack:** Carefully remove the level from its packaging.
2. **Inspect:** Before first use, visually inspect the level for any signs of damage from shipping. Ensure all vials are intact and clear.
3. **Clean:** Wipe down the level with a clean, dry cloth to remove any dust or residue.

5. Operating Instructions

Using the STANLEY Pro-180 I-Beam Level for accurate measurements is straightforward.

5.1. Measuring Horizontal (Level) Surfaces

1. Place the bottom edge of the level firmly on the surface you wish to check.
2. Observe the horizontal vial (the one typically in the middle, designed for level readings).
3. The surface is level when the air bubble is centered precisely between the two indicator lines on the vial.



Figure 2: The STANLEY Pro-180 I-Beam Level being used to check the level of a wooden beam. The image shows the level resting on a surface, with the vials visible for reading.

5.2. Measuring Vertical (Plumb) Surfaces

1. Place the side edge of the level against the vertical surface.
2. Observe the vertical vial (the one typically at one end, designed for plumb readings).
3. The surface is plumb when the air bubble is centered precisely between the two indicator lines on the vial.

5.3. Measuring Angles with the Rotating Vial

1. Identify the 180-degree rotating vial, usually located at one end of the level.
2. Place the level on the angled surface.
3. Rotate the vial housing until the air bubble is centered between the indicator lines.
4. Read the angle indicated on the degree markings around the rotating vial. This allows for precise measurement of slopes and specific angles.



Figure 3: A detailed view of the 180-degree rotating vial on the STANLEY Pro-180 I-Beam Level. This vial allows users to measure and set specific angles by aligning the bubble with the degree markings.

6. Maintenance

Proper maintenance will ensure the accuracy and longevity of your STANLEY Pro-180 I-Beam Level.

- **Cleaning:** After each use, wipe the level clean with a soft, dry cloth. For stubborn dirt, a damp cloth with mild soap can be used, followed by thorough drying. Avoid abrasive cleaners or solvents that could damage the finish or vials.
- **Storage:** Store the level in a dry place, away from extreme temperatures and direct sunlight. Avoid storing it in a way that could cause it to bend or warp.
- **Inspection:** Periodically check the vials for clarity and ensure they are securely seated. Inspect the end caps for any signs of wear or damage.

7. Troubleshooting

The STANLEY Pro-180 I-Beam Level is a simple and robust tool. Most issues relate to proper usage or physical damage.

Problem	Possible Cause	Solution
Inaccurate readings	Level is dirty or damaged; surface is not stable.	Clean the level. Inspect for bends or damage. Ensure the surface is firm and stable.

Problem	Possible Cause	Solution
Bubble not moving freely	Vial is damaged or obstructed.	Inspect the vial for cracks or debris. If damaged, the level may need replacement.

8. Specifications

Feature	Detail
Brand	STANLEY
Model Number	STA142920
Part Number	1-42-920
Material	Aluminum
Length	600mm (23.62 inches)
Product Dimensions	24"L x 2.3"W
Vials	3 (2 fixed, 1 rotating 180-degree)
Weight	10.6 ounces
Operation Mode	Manual

9. Warranty and Support

STANLEY products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official STANLEY website.
For technical support, replacement parts, or service inquiries, please contact STANLEY customer service through their official website or the contact information provided in your product documentation.
Official STANLEY Website: www.stanleytools.com

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