STANLEY STHT46011

STANLEY STHT46011 12-Inch Dual Color Square Instruction Manual

A guide to the proper use and care of your STANLEY STHT46011 square.

1. Introduction

The STANLEY STHT46011 12-Inch Dual Color Square is a versatile and durable layout tool designed for various carpentry and construction tasks. Its primary functions include marking 90-degree and 45-degree angles, measuring, and assisting in rafter layout. The dual-color graduations are engineered for enhanced readability, and the extra-thick ABS plastic body ensures long-lasting performance.

2. Safety Information

Always observe basic safety precautions when using any hand tool. This square is designed for marking and measuring; it is not intended for cutting or prying. Keep the tool clean and store it properly to prevent damage and ensure accuracy.

- Handle the square with care to avoid dropping it, which could affect its accuracy.
- Keep the tool clean and free of debris to ensure clear readings and proper function.
- Store the square in a dry place, away from extreme temperatures or direct sunlight.

3. Product Overview

The STANLEY STHT46011 is a 12-inch square constructed from extra-thick ABS plastic, providing both durability and a lightweight design. It features contrasting color graduations for superior readability in various lighting conditions. The wrapping graduations ensure accuracy for precise measurements and markings.



Image: The STANLEY STHT46011 12-Inch Dual Color Square. This image displays the tool's yellow body with a black base, highlighting the 'STANLEY' brand logo. Visible scales include a 'PIVOT' point, numerical graduations for general measurement, and specialized scales labeled 'HIP-VAL TOP CUT' and 'COMMON TOP CUT' for rafter calculations. The contrasting colors of the markings against the yellow background are designed for improved visibility.

Key Features:

- **Contracting Color Graduations:** Designed for optimal readability.
- **Wrapping Graduations:** Ensures high accuracy for precise layout tasks.
- **Extra Thick ABS Plastic Body:** Provides enhanced durability and resistance to impact.
- **12-Inch Length:** Standard size suitable for a wide range of projects.

4. Setup

The STANLEY STHT46011 12-Inch Dual Color Square is a ready-to-use tool and requires no assembly. Simply remove it from its packaging, and it is prepared for immediate application in your projects.

5. Operating Instructions

This square can be used for various marking and measuring tasks. Familiarize yourself with the different scales and edges to maximize its utility.

General Use:

- **Marking 90-Degree Angles:** Place the square firmly against the edge of your material. Use the longer side of the square to draw a line perpendicular to the edge.
- **Marking 45-Degree Angles:** Utilize the diagonal edge of the square to mark 45-degree angles. Align the square's base with the material's edge and draw along the angled side.
- **Measuring:** The edges of the square feature standard ruler markings (in inches) for direct measurement of lengths.

Rafter Layout (Roof Framing):

The square includes specialized scales for calculating and marking rafter angles, commonly found in roof framing. These scales are typically used in conjunction with a pivot point.

- **Pivot Point:** Locate the 'PIVOT' marking on the square. This point is used as a rotational axis when determining angles.
- **Common Top Cut Scale:** This scale is used for marking the top cut (plumb cut) of common rafters. To use, align the pivot point with the edge of your rafter material. Rotate the square until the desired 'COMMON TOP CUT' value (representing the pitch in inches per foot) aligns with the rafter's edge. Mark along the square's edge.
- **Hip-Val Top Cut Scale:** Similar to the common top cut, this scale is specifically for marking the top cut of hip and valley rafters. Follow the same procedure as for common rafters, but use the 'HIP-VAL TOP CUT' scale.
- **Reading Graduations:** The contracting color graduations are designed to make reading the scales easier and more accurate, even in varying light conditions.

6. Maintenance

Proper maintenance will extend the life and accuracy of your STANLEY STHT46011 square.

- **Cleaning:** Wipe the square with a damp cloth to remove dust, dirt, or marking residue. Avoid using harsh chemicals or abrasive cleaners that could damage the plastic or fade the graduations.
- **Storage:** Store the square in a clean, dry environment. Protect it from impacts or heavy objects that could bend or warp the plastic, compromising its accuracy.
- **Inspection:** Periodically inspect the square for any signs of damage, such as cracks, chips, or excessive wear on the edges or graduations. A damaged square may provide inaccurate measurements.

7. Troubleshooting

The STANLEY STHT46011 square is a simple, robust tool with minimal components. Most issues relate to usage or environmental factors.

- **Inaccurate Readings:**
  - Ensure the square is clean and free of any debris that might interfere with its contact surface.
  - Verify that the material you are marking is flat and stable.
  - Check for any physical damage to the square itself, such as warping or bending.
- **Difficulty Reading Graduations:**
  - Ensure adequate lighting in your workspace.
  - Clean the surface of the square to remove any smudges or dirt obscuring the markings.

8. Specifications

Attribute	Detail
Brand	STANLEY
Model Number	STHT46011
Length	12 Inches
Material	ABS Plastic (Blend)

Color	Multi (Yellow/Black)
Style	Classic
Graduation Range	1/8 Inches

9. Warranty and Support

For specific warranty information, product registration, or technical support, please visit the official STANLEY website or contact their customer service department. Details regarding warranty coverage are not provided within this instruction manual.