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Stanley STA046151

# Stanley 1912 Combination Square 300mm / 12" Instruction Manual

Model: STA046151

## 1. INTRODUCTION AND OVERVIEW

This manual provides instructions for the proper use and maintenance of your Stanley 1912 Combination Square. This versatile tool is designed for various measurement, marking, and leveling tasks in woodworking, metalworking, and general construction.

Key features include a durable cast metal stock, a precise stainless steel rule, and an integrated spirit level for checking horizontal and vertical surfaces.



**Figure 1:** The Stanley 1912 Combination Square, featuring a black cast metal head and a silver rule with both metric (mm) and imperial (inch) markings. An integrated spirit level is visible within the head.

## 2. COMPONENTS

The Stanley 1912 Combination Square consists of the following main parts:

- **Rule/Blade:** A 300mm (12-inch) stainless steel rule with clear metric and imperial graduations.
- **Square Head (Stock):** A heavy-duty cast metal body that slides along the rule. It features:
  - **90-degree Face:** For marking and checking right angles.
  - **45-degree Face:** For marking and checking miter angles.
  - **Integrated Spirit Level:** For checking horizontal and vertical levels.
  - **Scribing Pin:** A small brass pin located in the head, used for marking surfaces.
- **Locking Nut/Screw:** A brass knurled nut that secures the rule in position within the square head.

## 3. SETUP

The combination square is generally ready for use out of the box. However, it is important to ensure the rule is securely fastened and to verify accuracy before critical tasks.

1. **Unpacking:** Carefully remove the combination square from its packaging.
2. **Adjusting the Rule:** Loosen the brass locking nut on the square head. Slide the stainless steel rule to the desired position. Ensure the rule is fully seated against the internal stop for accurate measurements.
3. **Securing the Rule:** Tighten the brass locking nut firmly to prevent any movement of the rule during use. Do not overtighten.
4. **Accuracy Check:** Before first use, and periodically thereafter, verify the 90-degree and 45-degree angles against a known accurate reference square. If the tool is found to be inaccurate, it may require adjustment or calibration by a qualified professional.

## 4. OPERATING INSTRUCTIONS

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The Stanley 1912 Combination Square offers multiple functions:

- **Marking 90-degree Angles:**

Place the 90-degree face of the square head firmly against the edge of your workpiece. Slide the rule until the desired measurement aligns with the edge. Use a pencil or the scribing pin to mark a line along the rule's edge.

- **Marking 45-degree Angles:**

Position the 45-degree face of the square head against the edge of your workpiece. Hold it securely and mark along the rule's edge to create a 45-degree line.

- **Measuring Depth or Height:**

Loosen the locking nut and extend the rule. Place the square head on a flat surface, with the end of the rule touching the bottom of a recess or the top of a raised feature. Read the measurement where the rule meets the square head. Tighten the locking nut to lock the measurement.

- **Checking Level:**

Use the integrated spirit level within the square head. Place the appropriate face of the head on the surface you wish to check. Observe the bubble in the vial; if it is centered between the lines, the surface is level (horizontal) or plumb (vertical).

- **Using the Scribing Pin:**

The brass scribing pin can be removed from its storage hole in the square head. Use it to make fine, precise marks on wood or soft metals. Return the pin to its storage hole after use to prevent loss.

## 5. MAINTENANCE

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Proper care will ensure the longevity and accuracy of your combination square.

- **Cleaning:** Wipe the tool clean after each use with a dry, soft cloth. For stubborn grime, a mild detergent solution can be used, followed by thorough drying.
- **Rust Prevention:** The stainless steel rule is resistant to rust, but the cast metal head may be susceptible. Apply a light coat of machine oil or rust preventative to the metal head periodically, especially if stored in humid conditions.
- **Storage:** Store the combination square in a dry environment, away from extreme temperatures and corrosive materials.
- **Avoid Dropping:** Dropping the tool can affect its accuracy and cause damage to the spirit level or the cast head.

## 6. TROUBLESHOOTING

If you encounter issues with your combination square, consider the following:

- **Inaccurate Measurements/Angles:**

- Ensure the locking nut is fully tightened and the rule is not shifting.
- Verify the square against a known accurate reference. If consistently inaccurate, the tool may be damaged or require professional calibration.
- Check for debris between the rule and the square head that might prevent proper seating.

- **Loose Rule:**

Tighten the brass locking nut. If the nut does not hold the rule securely, inspect for wear or damage to the nut or the rule's groove.

- **Spirit Level Not Functioning:**

Ensure the tool is placed on a stable surface. If the bubble does not move or appears damaged, the level vial may be broken, requiring replacement of the square head.

## 7. SPECIFICATIONS

Attribute	Detail
Brand	Stanley
Model Number	STA046151
Product Dimensions (L x W x H)	35 x 15.4 x 3.5 cm
Weight	434 grams
Material	Metal (Cast Iron Head, Stainless Steel Rule)
Graduation Range	300 Millimeters (12 Inches)
Country of Origin	China

## 8. WARRANTY AND SUPPORT

Stanley products are manufactured to high standards. This product is designed for durability and precision. Spare parts availability is listed as 1 year.

For specific warranty details, technical support, or to inquire about replacement parts, please refer to the official Stanley website or contact their customer service department. Keep your purchase receipt as proof of purchase.

**Manufacturer:** Stanley