

PEC 7000-S-4

PEC 7000-S-4 Solid Square Set User Manual

Model: 7000-S-4 | Brand: PEC

INTRODUCTION

This manual provides essential information for the proper use, care, and maintenance of your PEC 7000-S-4 Solid Square Set. Designed for precision and durability, this set of four solid squares is an indispensable tool for professionals and hobbyists requiring accurate right-angle measurements in various applications, including carpentry, metalworking, and layout tasks. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

PRODUCT OVERVIEW



Image: The PEC 7000-S-4 Solid Square Set, featuring four precision squares of varying sizes, neatly organized within its durable blue protective case.

Key Features

- High Quality Tool Steel:** Constructed from robust tool steel for exceptional strength and longevity.
- Accurate Right Angles:** Engineered to provide precise 90-degree angles, both internally and externally, crucial for accurate layout and measurement.

- **Hardened Blade:** The blade of each square is hardened to resist wear and maintain accuracy over time.
- **Blade Length Measurement:** Blade length is measured from the inner edge of the beam to the end of the blade, ensuring consistent and standard measurements.
- **Made in the USA:** Manufactured in the United States, ensuring adherence to high quality standards.

SETUP

The PEC 7000-S-4 Solid Square Set requires minimal setup. Upon receiving your set, follow these steps:

1. **Unpack:** Carefully remove the square set from its packaging.
2. **Inspect:** Examine each square for any signs of damage during transit. Ensure all four squares (2", 3", 4", 6") are present and fit securely in their designated slots within the case.
3. **Clean:** Before first use, wipe down each square with a clean, dry cloth to remove any manufacturing residues or protective coatings. For long-term storage, a light coat of rust preventative oil is recommended.
4. **Familiarize:** Identify the different sizes and understand how the blade length is measured (from the inner edge of the beam to the end of the blade).

OPERATING INSTRUCTIONS

The solid squares are fundamental tools for marking and checking right angles. Their precision makes them suitable for critical layout work.

Measuring and Marking Right Angles

1. **Select Square:** Choose the appropriate size square for your workpiece. The set includes 2-inch, 3-inch, 4-inch, and 6-inch squares.
2. **Position:** Place the beam (thicker part) of the square firmly against the edge of the material you wish to mark or check. Ensure there is no gap between the beam and the material.
3. **Align:** Align the blade (thinner part) of the square along the surface where the right angle is needed.
4. **Mark:** Using a sharp pencil or marking knife, draw a line along the edge of the blade. This line will be precisely 90 degrees to the edge where the beam rests.
5. **Check:** To check an existing angle, place the square against the corner. Any light visible between the square and the workpiece indicates an inaccuracy in the angle.

Measuring Blade Length

The length of the blade on each square is measured from the inner edge of the beam to the end of the blade. This is a standard measurement for squares and is useful for determining reach or specific dimensions.

- To verify the blade length, use a precise ruler or caliper.
- Place the ruler's zero mark at the inner corner where the blade meets the beam.
- Read the measurement at the tip of the blade. This should correspond to the nominal size of the square (e.g., 2 inches, 3 inches, etc.).

MAINTENANCE AND CARE

Proper maintenance will ensure the accuracy and longevity of your PEC Solid Square Set.

- **Cleaning:** After each use, wipe the squares clean with a soft, dry cloth to remove any dust, debris, or moisture.
- **Rust Prevention:** Since the squares are made of tool steel, they are susceptible to rust. Apply a thin coat of rust preventative oil (e.g., camellia oil, machine oil) to all metal surfaces, especially if storing for extended periods or in humid environments.
- **Storage:** Always store the squares in their provided protective case. This prevents physical damage, keeps them clean, and minimizes exposure to moisture. Ensure the case is closed securely.
- **Avoid Dropping:** Dropping the squares can compromise their accuracy and cause permanent damage. Handle them with care.
- **Do Not Force:** Do not use the squares as prying tools or for any purpose other than measurement and marking.

TROUBLESHOOTING

While the PEC Solid Square Set is designed for reliability, here are some common issues and their potential solutions:

Issue	Possible Cause	Solution
Square appears to be inaccurate	Debris on workpiece or square; Physical damage; Extreme temperature changes	Clean both the square and the workpiece thoroughly. Inspect for bends or nicks. Allow square to acclimate to ambient temperature. If damage is present, replacement may be necessary.
Rust spots appearing on squares	Exposure to moisture; Improper storage; Lack of protective oil	Clean off rust with a fine abrasive pad (e.g., Scotch-Brite) and light oil. Apply a thin coat of rust preventative oil after each use. Store in the protective case in a dry environment.
Squares rattle inside the case	Normal movement within the case; Case not fully closed	Ensure the case is securely latched. A slight rattle is normal due to manufacturing tolerances of the case inserts. This does not affect square accuracy when stored properly.

SPECIFICATIONS

Detailed specifications for the PEC 7000-S-4 Solid Square Set:

Attribute	Detail
Model Number	7000-S-4
Set Includes	Four solid squares (2-inch, 3-inch, 4-inch, 6-inch)
Material	High Quality Alloy Tool Steel
Color	Silver

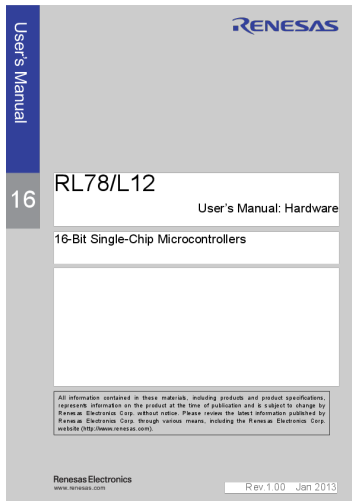
Attribute	Detail
Style	Solid Square
Item Weight	2 Pounds (approximate, for the set)
Manufacturer	PEC
Country of Origin	USA

WARRANTY INFORMATION

Specific warranty details for the PEC 7000-S-4 Solid Square Set are not provided in the product information. For any warranty-related inquiries, please refer to the manufacturer's official website or contact their customer support directly.

CUSTOMER SUPPORT

For further assistance, technical support, or questions regarding your PEC 7000-S-4 Solid Square Set, please contact PEC customer service. Contact information is typically available on the manufacturer's official website or product packaging. Please have your model number (7000-S-4) ready when contacting support.



[Renesas RL78/L12 User's Manual: Hardware for 16-Bit Single-Chip Microcontrollers](#)

Comprehensive hardware user's manual for Renesas RL78/L12 16-bit single-chip microcontrollers, detailing pin functions, CPU architecture, port operations, clock generation, timer array unit, and real-time clock features.

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