

## Spear & Jackson 94-370R

# Spear & Jackson 94-370R Eclipse Saw Tooth Setter Instruction Manual

Model: 94-370R

## 1. INTRODUCTION

Thank you for choosing the Spear & Jackson 94-370R Eclipse Saw Tooth Setter. This tool is designed to accurately set the teeth on most types of wood saws, ensuring optimal cutting performance. Proper tooth setting is crucial for efficient sawing and extends the life of your saw blade. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your saw tooth setter.

## 2. SAFETY INFORMATION

Always prioritize safety when using hand tools. Failure to follow these safety guidelines may result in injury or damage to the tool or workpiece.

- **Eye Protection:** Always wear safety glasses or goggles to protect your eyes from flying debris.
- **Stable Work Surface:** Ensure your workpiece (the saw blade) is securely clamped or held in a stable position to prevent movement during setting.
- **Inspect Tool:** Before each use, inspect the saw tooth setter for any damage or wear. Do not use a damaged tool.
- **Proper Grip:** Maintain a firm grip on the tool's handles during operation. The non-slip rubberized handles are designed for user comfort and control.
- **Keep Clear:** Keep hands and fingers away from the saw teeth and the setting mechanism during operation.
- **Storage:** Store the tool in a dry, safe place, out of reach of children.

## 3. PRODUCT OVERVIEW

The Spear & Jackson 94-370R Eclipse Saw Tooth Setter is a robust tool designed for precision saw maintenance. It features a durable construction with user comfort in mind.

### Key Features:

- Used to set the teeth on most types of wood saws.
- Knurled adjustment screw for precise and increased torque.
- Powder-coated metal head and nickel-plated anvil for rust resistance.
- Non-slip rubberized handles designed for user comfort.
- Metal handles for strength and durability.
- Overall length of 184 mm (7 1/4 in).
- Saw tooth set adjustments available for 4, 5, 6, 8, 10, and 12 teeth per inch (TPI).

### Components:

1. **Handles:** Red, rubberized, non-slip grips for comfortable operation.
2. **Setting Mechanism:** The main body of the tool, including the powder-coated metal head.
3. **Anvil:** Nickel-plated component that supports the saw tooth during setting.
4. **Knurled Adjustment Screw:** Used to select the desired tooth set depth.
5. **Setting Dial:** Marked with numbers (4, 5, 6, 8, 10, 12) corresponding to teeth per inch (TPI) settings.



Figure 1: Overall view of the Spear & Jackson 94-370R Eclipse Saw Tooth Setter.

## 4. SETUP

Before operating the saw tooth setter, ensure your saw blade is clean and free of rust or debris. Secure the saw blade in a vise or suitable clamping device, ensuring the teeth are accessible and stable.

## Adjusting the Tooth Set:

1. Identify the teeth per inch (TPI) of your saw blade. This tool supports settings for 4, 5, 6, 8, 10, and 12 TPI.
2. Locate the knurled adjustment screw and the setting dial on the saw tooth setter.
3. Rotate the knurled adjustment screw until the desired TPI number on the setting dial aligns with the indicator mark. This adjusts the depth to which the tooth will be bent.
4. For a finer set, choose a higher TPI number. For a coarser set, choose a lower TPI number.



Figure 2: Adjusting the knurled screw to select the desired TPI setting.

## 5. OPERATING INSTRUCTIONS

Once the saw tooth setter is adjusted to the correct TPI, you can begin setting the saw teeth. The goal is to bend alternate teeth slightly to the left and right, creating a kerf wider than the blade thickness, which prevents the blade from binding in the cut.

1. Position the saw tooth setter over the first tooth to be set. Ensure the tooth is centered on the anvil and the tool is perpendicular to the saw blade.
2. Gently squeeze the handles of the setter. You will feel the tooth being bent. Apply consistent pressure for each tooth.
3. Release the handles and move the setter to the next tooth that needs to be set in the same direction. Typically, every other tooth is set in one direction, then the saw is flipped, and the remaining teeth are set in the opposite direction.
4. Work systematically along the entire length of the saw blade, setting all teeth that point in one direction.

5. Once one side is complete, carefully flip the saw blade in the vise or clamping device.
6. Repeat the process for the remaining teeth, bending them in the opposite direction.
7. After setting, visually inspect the teeth to ensure a consistent set. The amount of set should be minimal, just enough to clear the blade. Excessive set can lead to a rough cut and wasted material.



Figure 3: Demonstrating the saw tooth setter in use on a saw blade.

## 6. MAINTENANCE

Regular maintenance will ensure the longevity and continued performance of your Spear & Jackson Saw Tooth Setter.

- **Cleaning:** After each use, wipe down the tool with a clean, dry cloth to remove any sawdust or debris.
- **Rust Prevention:** The powder-coated head and nickel-plated anvil offer rust resistance, but for prolonged storage or in humid environments, apply a light coat of rust-inhibiting oil to all metal parts.
- **Lubrication:** Occasionally, a small drop of light machine oil can be applied to the pivot points and the threads of the adjustment screw to ensure smooth operation.
- **Storage:** Store the tool in a dry, protected environment to prevent corrosion and damage.

## 7. TROUBLESHOOTING

If you encounter issues while using your saw tooth setter, consider the following common problems and solutions:

- **Inconsistent Tooth Set:**
  - Ensure the saw blade is securely clamped and not moving during setting.

- Verify that the saw tooth setter is positioned consistently on each tooth.
- Apply consistent pressure when squeezing the handles.
- **Difficulty Adjusting the Setting Screw:**
  - Check for any debris or sawdust obstructing the threads. Clean if necessary.
  - Apply a small amount of lubricant to the threads of the adjustment screw.
- **Saw Blade Binding After Setting:**
  - The set might be insufficient. Re-evaluate the TPI setting and ensure all teeth are set.
  - Ensure alternate teeth are bent in opposite directions.

## 8. SPECIFICATIONS

Attribute	Detail
Product Type Name	Saw Tooth Setting Tool
Brand	Spear & Jackson
Model Number	94-370R (e9c-370R)
Overall Dimensions (L x W x H)	18.49 x 10.49 x 3.51 cm (7.25 x 4.13 x 1.38 inches)
Item Weight	290 Grams
Color	Red
Handle Material	Rubber
Power Source	Hand Powered
Special Feature	Suitable for most wood saws
Included Components	1 x 94-370R Saw Tooth Setter
Country of Origin	Taiwan

## 9. WARRANTY AND SUPPORT

For information regarding warranty, repairs, or technical support, please refer to the official Spear & Jackson website or contact their customer service department. Keep your purchase receipt as proof of purchase.

**Spear & Jackson Official Website:** [www.spear-and-jackson.com](http://www.spear-and-jackson.com)

