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› California Trimmer Back Lapping Kit H0907 Instruction Manual

California Trimmer H0907

California Trimmer Back Lapping Kit H0907 Instruction Manual

Model: H0907

INTRODUCTION

This instruction manual provides essential information for the safe and effective use of your California Trimmer Back Lapping Kit, Model H0907. This kit is designed to sharpen the reel blades and bed knives of 20-inch to 25-inch California Trimmer reel mowers, ensuring optimal cutting performance. Please read this manual thoroughly before attempting any setup, operation, or maintenance.

PRODUCT OVERVIEW AND COMPONENTS

The California Trimmer Back Lapping Kit H0907 includes the following components:

- Grinding Compound
- Sprocket Adapter
- Compound Brush



Image 1: Sprocket Adapter. This component is used to connect the grinding mechanism to the mower's reel.



Image 2: Product Packaging. The kit components are supplied in this packaging.

SAFETY INFORMATION

Adhering to safety precautions is crucial when performing maintenance on your reel mower. Failure to do so may result in injury or damage to the equipment.

WARNING: ALWAYS STOP THE ENGINE AND WEAR GLOVES WHEN DOING ANY MAINTENANCE OR INSPECTION OF THE REEL BLADE AND BED KNIFE. A BENT, CRACKED OR BROKEN REEL BLADE AND/OR BED KNIFE MUST BE REPLACED ENTIRELY.

IMPORTANT: Please review all instructions and gather necessary tools and recommended supplies before beginning any adjustments or maintenance. This will help ensure a smooth and safe process.

SETUP

Before beginning the back-lapping process, ensure your mower is clean and stable. Refer to your mower's specific manual for instructions on how to safely access the reel and bed knife for maintenance.

1. Ensure the mower engine is off and the spark plug wire is disconnected to prevent accidental starting.
2. Position the mower on a stable, level surface.
3. Clean any grass clippings or debris from the reel and bed knife area.
4. Identify the sprocket on your reel mower where the back-lapping adapter will attach.
5. Attach the provided sprocket adapter from the kit to the mower's sprocket. Ensure it is securely fastened according to your mower's instructions.

OPERATING INSTRUCTIONS: BACK LAPPING PROCESS

Back-lapping is a method of sharpening reel mower blades by reversing the reel's rotation and applying an abrasive compound. This process grinds the reel blades against the bed knife, creating a sharp cutting edge.

Reel Mower Cutting Fundamentals

The reel mower's cutting ability relies on the precise contact between the reel blade and the bed knife. These edges must be sharp and meet in a scissor-like action. Unlike rotary mowers, reel blades are squared, with the width of the blade material ground at specific angles to reduce the surface area contacting the bed knife. The bed knife's top and front surfaces are also ground at precise angles to provide proper contact with the blades' leading edges.



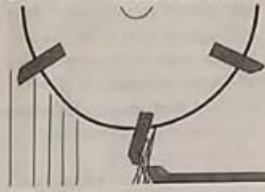
REEL BLADE / BED KNIFE ADJUSTING & SHARPENING



Here's a QR code image that can be used to access this document on a portable device.

Reel Mower Cutting Fundamentals

The reel mower's cutting ability is the result of the corner edges of the reel blade and bed knife crossing each other in a precise manner (proximity and speed) to achieve the scissor action. These edges are sharp, but not in the same way as a knife or even a rotary mower blade. They are squared, with the width of the blade material ground at specific angles to reduce the amount of surface area that contacts the bed-knife. The bed knife's top and front surfaces are also ground at precise angles to provide the proper contact with the blades' leading edges as it rotates.



Reel Blade

Bed Knife

All our blades are manufactured using a computerized grinding and balancing process and the cutting action (the rotational contact between the blade and bed knife) is pre-adjusted during assembly. We also use a relief grind to reduce friction and extend the life of the blade. We back-lap every unit to ensure the components are "seated" (conforming to each other) for consistent engagement and light contact. However, since it's a motorized, mechanical machine with chain driven functions, normal wear and use of the unit will make it necessary to periodically perform maintenance and adjustments. If there's

indication that it's not cutting properly – such as uneven cut heights, you can check the cutting action to see if it's engaging across the entire width and that the reel blade/bed knife contact is light. You also need to check the condition of the blade and bed knife surfaces and edges.

Reel Mower "Sharpening"

Many people first think of sharpening as having to re-grind the blade and bed knife. If the surface or edges are damaged (pits, gouges, or rounded), then grinding will likely be necessary. However, if they are in good condition, there are 2 other steps that can be taken which contribute to an effective scissor cutting action... **adjustment and back-lapping**. To make this determination – and to adjust the blade/bed knife contact or back-lap them, you need to prepare the unit (and yourself) so that the reel blade, bed knife and the overall cutting action can be effectively accessed and inspected.

Preparation - Overview



WARNING: ALWAYS STOP THE ENGINE AND WEAR GLOVES WHEN DOING ANY MAINTENANCE OR INSPECTION OF THE REEL BLADE AND BED KNIFE. A BENT, CRACKED OR BROKEN REEL BLADE AND/OR BED KNIFE MUST BE REPLACED ENTIRELY.

IMPORTANT! Please review the information on the following pages to familiarize yourself completely with all the instructions and gather all the necessary tools and recommended supplies before beginning any adjustments or maintenance, as it will help make all the steps go more smoothly.

Image 3: Excerpt from General Reel Mower Sharpening Instructions. This image illustrates the principles of reel blade and bed knife interaction.

All blades are manufactured using a computerized grinding and balancing process to ensure consistent cutting action. They are pre-adjusted during assembly. A relief grind is applied to reduce friction and extend blade life. Blades are back-lapped every unit to ensure components are "seated" for consistent engagement and light contact. Regular maintenance, including back-lapping, is necessary to maintain performance.

An indication that the mower is not cutting properly (e.g., uneven cuts) means you should check the cutting action. To do this, inspect the entire width and ensure the reel blade/bed knife contact is light. Also, check the condition of the blade and reel knife surfaces and edges.

Reel Mower Sharpening (Back-Lapping)

Many people first think of sharpening as having to re-grind the blade and bed knife. If the surface or edges are damaged (pits, gouges, or rounded), then grinding will likely be necessary. However, if they are in good condition, there are other steps that can be taken which contribute to an effective scissor cutting action: adjustment and back-lapping. To make this determination – and to adjust the blade/bed knife contact or back-lap them, you need to prepare the unit (and yourself) so that the reel blade, bed knife and the overall cutting action can be effectively accessed and inspected.

1. With the sprocket adapter securely attached, apply a small amount of grinding compound to the leading edges of the reel blades and the bed knife. Use the provided brush for even application.
2. Carefully rotate the reel backwards using the sprocket adapter. This action will cause the grinding compound to abrade the surfaces of the reel blades and bed knife, sharpening them.
3. Continue rotating the reel backwards, applying more compound as needed, until a sharp edge is achieved on both the reel blades and the bed knife. Periodically check the sharpness by attempting to cut a piece of paper held between the reel and bed knife.
4. Once satisfied with the sharpness, remove the sprocket adapter.
5. Thoroughly clean all grinding compound residue from the reel, bed knife, and surrounding areas. Residual compound can cause premature wear.
6. Re-assemble any parts removed for the back-lapping process, ensuring all fasteners are tightened to the manufacturer's specifications.

MAINTENANCE

Proper maintenance of your back-lapping kit ensures its longevity and effectiveness.

- After each use, clean the sprocket adapter and brush to remove any grinding compound residue.
- Store the grinding compound in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep all components of the kit clean and dry to prevent corrosion.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Blades not sharpening effectively	Insufficient grinding compound; improper application; severe blade damage; incorrect reel/bed knife adjustment.	Apply more compound; ensure even application; inspect blades for damage (replace if bent/cracked); adjust reel/bed knife clearance as per mower manual.
Sprocket adapter does not fit	Incorrect adapter for mower model; adapter not fully engaged.	Verify kit compatibility with your specific California Trimmer model (H0907 is for 20"-25" models); ensure adapter is fully seated and secured.
Excessive wear on blades after back-lapping	Grinding compound not thoroughly cleaned off; excessive pressure during back-lapping.	Ensure all compound is removed after sharpening; use moderate pressure during the process.

SPECIFICATIONS

- **Model:** H0907
- **Compatibility:** California Trimmer 20-inch to 25-inch Reel Mowers
- **Includes:** Grinding Compound, Sprocket Adapter, Compound Brush
- **Manufacturer:** California Trimmer
- **Origin:** Made in USA
- **Item Weight:** Approximately 1.94 pounds
- **Package Dimensions:** Approximately 8.35 x 6.54 x 4.88 inches

WARRANTY AND SUPPORT

For specific warranty information regarding the California Trimmer Back Lapping Kit H0907, please refer to the documentation included with your purchase or contact California Trimmer customer support directly. Support contact details are typically available on the manufacturer's official website.