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## Allis Chalmers #5 Sickle Bar Mower

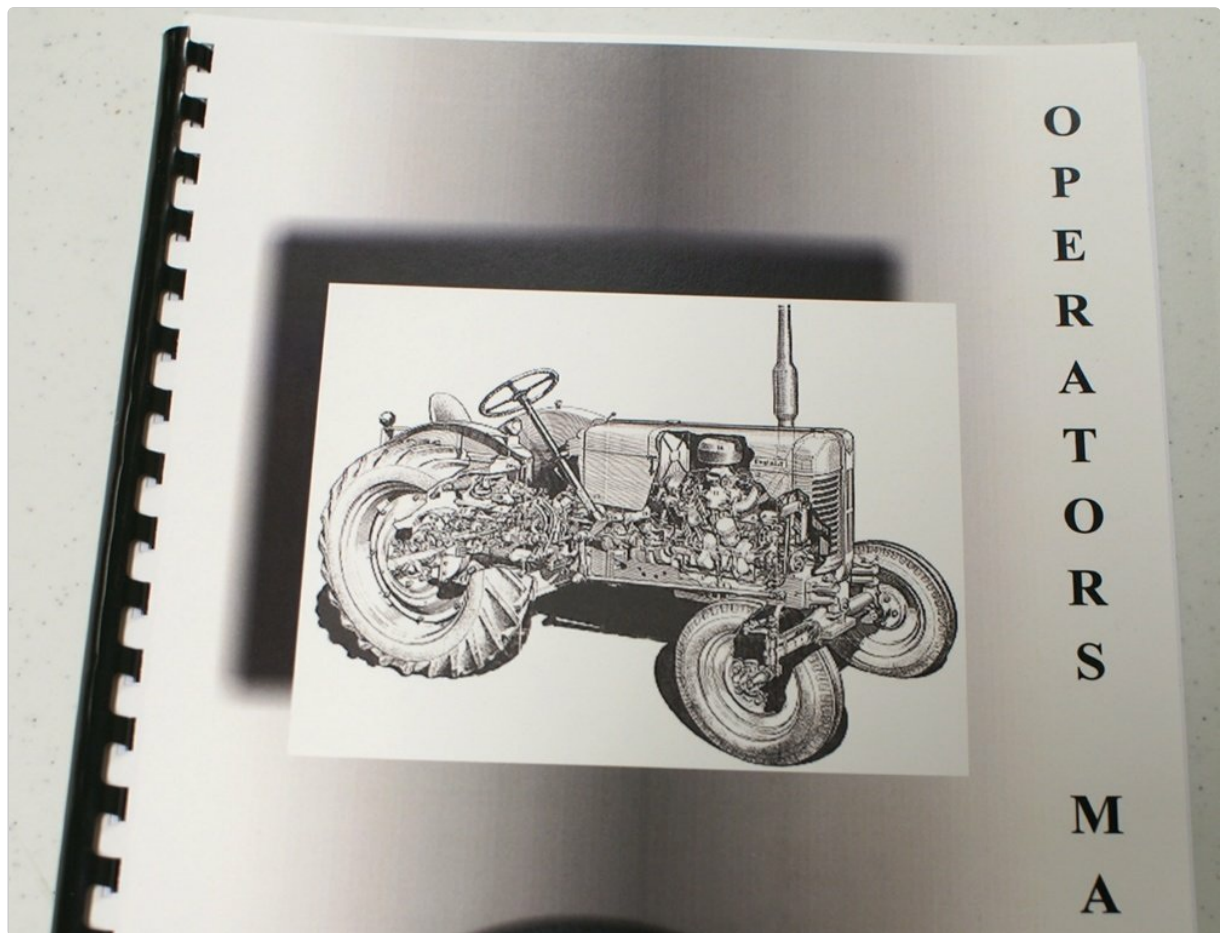
# Allis Chalmers B Tractor #5 Sickle Bar Mower: Operator's and Parts Manual

Essential guide for operation, maintenance, and parts identification.

## INTRODUCTION

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This manual provides detailed instructions for the safe and efficient operation, routine maintenance, and identification of parts for the Allis Chalmers B Tractor #5 Sickle Bar Mower. It is crucial to read and understand all information contained within this document before attempting to set up, operate, or service the equipment. Proper use and maintenance will ensure the longevity and optimal performance of your sickle bar mower.



This image displays the front cover of the official operator's and parts manual for the Allis Chalmers B Tractor #5 Sickle Bar Mower, providing a visual reference to the document's appearance.

## SAFETY INFORMATION

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Operating agricultural machinery, especially sickle bar mowers, requires strict adherence to safety protocols to prevent injury or damage. Always prioritize safety.

- **Read the Manual:** Thoroughly read and understand this entire manual before operating the mower.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, sturdy footwear, and close-fitting clothing.
- **Pre-Operation Check:** Inspect the mower for loose parts, damaged blades, or any other issues before each use. Ensure all guards and shields are in place.
- **Clear the Area:** Before mowing, clear the work area of any debris, rocks, or obstacles that could be thrown by the mower.
- **Keep Bystanders Away:** Ensure all persons and animals are a safe distance from the operating mower.
- **Engine Off for Adjustments:** Never attempt to clear clogs, adjust, or service the mower while the tractor engine is running. Disengage the PTO and turn off the engine.
- **Safe Transport:** When transporting the mower, ensure it is properly secured and raised to a safe height.
- **Slope Operation:** Exercise extreme caution when operating on slopes. Mow across slopes, not up and down, to maintain stability.

## SETUP AND ATTACHMENT

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Proper attachment of the #5 Sickle Bar Mower to your Allis Chalmers B Tractor is essential for safe and effective operation. Refer to the detailed diagrams and instructions within the manual for specific steps.

1. **Tractor Preparation:** Ensure the tractor is parked on a level surface, engine off, and parking brake engaged.
2. **Hitch Connection:** Carefully align the mower's hitch points with the tractor's drawbar or three-point hitch (if applicable for your specific setup). Secure with appropriate pins and clips.
3. **PTO Shaft Connection:** Connect the power take-off (PTO) shaft, ensuring it is correctly aligned and locked into place. Verify that the shaft length is appropriate to avoid binding or separation during operation.
4. **Hydraulic Connections (if applicable):** If your mower utilizes hydraulic cylinders for lift or angle adjustment, connect the hydraulic hoses to the tractor's hydraulic outlets.
5. **Guard and Shield Check:** Confirm all safety guards, including the PTO shield and blade guards, are securely in position.
6. **Initial Adjustments:** Adjust the cutting height and angle according to the terrain and desired cutting results. Consult the manual for specific adjustment points and recommended settings.

## OPERATING INSTRUCTIONS

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Follow these guidelines for safe and efficient operation of your Allis Chalmers #5 Sickle Bar Mower.

- **Start-Up:** With the mower fully attached and all safety checks complete, start the tractor engine. Engage the PTO slowly and smoothly.
- **Cutting Speed:** Operate at a ground speed appropriate for the crop density and terrain. Excessive speed can lead to poor cutting quality, clogging, and increased wear.
- **Blade Engagement:** Ensure the sickle bar blades are fully engaged and operating at the correct speed before entering the cutting area.
- **Mowing Technique:** Maintain a consistent forward speed and cutting height. Overlap passes slightly to avoid leaving uncut strips.
- **Turning:** Disengage the PTO or raise the mower slightly when making sharp turns to prevent damage to the PTO shaft or mower components.
- **Stopping Operation:** To stop mowing, disengage the PTO, lower the mower to the ground, and then turn off the tractor engine.
- **Clearing Clogs:** If the mower clogs, disengage the PTO, turn off the tractor engine, and wait for all moving parts to stop before attempting to clear the obstruction. Use a stick or tool, never your hands.

## MAINTENANCE

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Regular maintenance is critical for the performance and longevity of your sickle bar mower. Refer to the manual's maintenance schedule for detailed intervals.

- **Lubrication:** Regularly lubricate all grease points as specified in the manual. Use the recommended type of grease.
- **Blade Inspection and Sharpening:** Inspect sickle bar blades for wear, damage, or dullness before each use. Sharpen or replace worn blades to ensure a clean cut and reduce strain on the mower.
- **Guard and Shield Maintenance:** Ensure all safety guards are intact and securely fastened. Replace any damaged guards immediately.

- **Belt/Chain Tension (if applicable):** Check and adjust the tension of any drive belts or chains according to the manual's specifications.
- **Fastener Check:** Periodically check all bolts, nuts, and fasteners for tightness. Tighten as necessary.
- **Cleaning:** After each use, clean the mower to remove grass, dirt, and debris. This prevents rust and allows for easier inspection.
- **Storage:** Store the mower in a dry, protected area when not in use. Apply a thin coat of oil to exposed metal parts, especially the sickle bar, to prevent rust during storage.

## TROUBLESHOOTING

This section outlines common issues and their potential solutions. For more complex problems, consult the detailed troubleshooting guide within the full manual.

Problem	Possible Cause	Solution
Poor Cutting Quality	Dull or damaged blades, incorrect cutting height, excessive ground speed.	Sharpen or replace blades. Adjust cutting height. Reduce ground speed.
Mower Clogging Frequently	Too much material, dull blades, incorrect cutting angle, insufficient PTO speed.	Reduce ground speed. Sharpen blades. Adjust cutting angle. Ensure proper PTO RPM.
Excessive Vibration	Bent or unbalanced blades, loose fasteners, worn bearings.	Inspect and replace damaged blades. Tighten all fasteners. Check and replace worn bearings.
Mower Not Engaging	PTO not engaged, PTO shaft disconnected, internal drive issue.	Ensure PTO is fully engaged. Check PTO shaft connection. Consult manual for internal drive diagnostics.

## SPECIFICATIONS

Detailed specifications for the Allis Chalmers B Tractor #5 Sickle Bar Mower, including dimensions, weight, power requirements, and specific part numbers, are provided within the comprehensive manual. This manual serves as the primary reference for all technical data related to the equipment.

- **Model:** #5 Sickle Bar Mower
- **Compatibility:** Designed for use with Allis Chalmers B Tractors.
- **Manual Pages:** 38 pages of detailed information.
- *For complete technical specifications, refer to the relevant sections within this operator's and parts manual.*

## PARTS AND SUPPORT

This manual includes a dedicated parts section with exploded views and part numbers to assist in identifying and ordering replacement components for your #5 Sickle Bar Mower. Given the vintage nature of this equipment, original parts may be scarce.

- **Parts Identification:** Use the diagrams and lists in the manual to accurately identify the required

parts.

- **Replacement Parts:** When sourcing replacement parts, prioritize genuine Allis Chalmers parts if available. Otherwise, seek high-quality aftermarket alternatives that meet original specifications.
- **Technical Assistance:** For complex repairs or technical assistance, it is recommended to consult with experienced agricultural mechanics specializing in vintage farm equipment or refer to historical Allis Chalmers service resources.
- **Online Resources:** Various online forums and communities dedicated to vintage Allis Chalmers equipment can also be valuable resources for information and support.

This document is intended for informational purposes only. Always exercise caution and follow safety guidelines when operating machinery.