

# Mow-Chip

Rotary Mowers



*Operator's Manual*  
*Models 64-180 and 74-180*  
*May 2008*

**AgLand**  
INDUSTRIES INC.



Introduction .....3  
Safety Instructions.....4  
Safety Decals .....5  
Operating Instructions .....6  
Maintenance .....7  
Trouble Shooting .....8  
Warranty ..... Back Cover



## Introduction



The following manual is a set of rules and instructions intended to inform the owner/operator about the function and safe operation of the Mow-Chip Rotary Brush Mower.

Failure to observe these rules may result in serious injury to the operator and/or other persons.

Your new Mow-Chip Rotary Brush Mower is a precision built machine, carefully constructed to give excellent performance and long-term service. It is also a high-speed machine consisting of rapidly moving sharp components and must be used at all times with extreme caution and attention.

Please read this manual thoroughly and carefully prior to attempting use of this mower.

# Safety Instructions

## **Prior to Any Use of Mower:**

1. Only mature experienced adults are permitted to operate the Mow-Chip Rotary Brush Mower. Persons age 16 or under, or any other inexperienced persons are prohibited.
2. Do not operate machinery while intoxicated or when judgement may be impaired by medication. Safety goggles and hearing protection are required.
3. Do not operate mower in darkness or at any time when field of operation is not clearly visible.
4. Do not remove safety shields for any reason other than repairs. Replace immediately before resuming operation of the mower.
5. Be sure the safety limit chain is in place and secured before attempting operation of the mower. Keep hands and feet clear of the deck while the mower is running.
6. Do not engage the mower before all necessary hookups and adjustments have been made to both mower and skidsteer.
7. Shut off all power sources including the skidsteer. Do not attempt any adjustments or repairs while mower is engaged.
8. Do not attempt any inspections or repairs underneath mower before carefully blocking the mower with skids in a solid position.

## **A Thorough Investigation of the Area Prior to Mowing Includes the Following:**

Check the field of operation in detail to prevent serious injury by thrown objects or blade contact.

1. Do not allow bystanders anywhere in the field of operation. Area must be clear of people, animals, traffic, and buildings at all times during mowing operations.
2. Do not use the mower in confined spaces. Area of operation must have totally visible field at all times.
3. Do not begin mowing before the entire area to be mowed has been checked in detail for objects or material which may be thrown or discharged by mower blades. All such material must be removed.
4. Obvious hazards such as power lines, telephone or gas fixtures as well as large rocks, scrap metal, fences or any other objects, which cannot be removed from the site, must be flagged or marked so that they may be avoided.
5. Mower blades must be able to turn freely at all times. Do not operate the mower in standing water, bog or where sharply uneven terrain exists such as dirt piles, large holes and/or trenches.
6. Do not continue operation of the mower if blades should become jammed or entangled for any reason. All functions should be immediately stopped by disengaging the controls. Failure to do so may result in serious damage to the mower.
7. Do not attempt mowing operations on sharp inclines or steep declines or at sharp angles where the skidsteer and mower may roll over.

|   |   |   |
|---|---|---|
| <b>! WARNING</b>  |   |   |
|    |  |  |
| <p><b>ROTATING BLADE HAZARD</b></p> <p>Keep Away -Rotating Blades<br/>To prevent serious injury or death from thrown objects or blade contact:</p> <ul style="list-style-type: none"> <li>• Do not operate with deflectors removed.</li> <li>• Do not point discharge toward people, animals or buildings when operating.</li> <li>• Do not place hands or feet under deck when operating or when engine is running.</li> </ul> |   |   |
| <small>DC0128</small>   |   |   |

|   |
|---|
| <b>! CAUTION</b>  |
| <p><b>Do not operate<br/>on high-flow<br/>hydraulics.</b></p> |
| <small>DC0127</small>   |

|  |
|--|
| <b>! DANGER</b>  |
| <p><b>Attach safety<br/>chain to skidsteer<br/>before operating<br/>rotary cutter!</b></p> |
| <small>DC0129</small>  |

# Operating Instructions

The following rules of operation will ensure your new rotary mower delivers top quality results while protecting both operator and machine from injury and/or damage.

1. Safety goggles and some type of hearing protection are required during mowing operation.
2. Important - no high flow hydraulics over 25 G.P.M., unless unit also is equipped with high flow motor. Doing so may cause serious damage to the motor resulting in the warranty being voided.
3. Following normal hydraulic hookup of mower to skidsteer, do a visual check of lock pins, making sure that the mower is locked securely in place.
4. Connect the lift limit safety chain.
  - A. Adjust chain around bracket on frontside of skidsteer, by looping chain. Lift limit is adjusted to 12 inches above ground level and hydraulic couplers are then connected.
  - B. All safety chains and shields must be in place prior to applying power to the mower. A final careful walk around inspection is highly recommended.
5. Choose a smooth, level, debris-free area for the next step. Apply power to the mower making sure it is running smoothly and at full speed before moving the skidsteer. Make sure mower runners are as close to the ground as possible. Never raise the rear side of the mower higher than 6 inches above ground level.
6. Proceed mowing with care not to overload the mower. Brush volumes may vary and the mower may become overloaded in dense stands. Simply slow down allowing the mower to reach full speed before resuming operations. Raise front of mower slightly and move forward slowly to bend tree over when cutting larger diameter brush. Never attempt to cut material more than 2 inches in diameter.
7. Stay alert for unexpected hazards and keep total control of both mower and skidsteer at all times.



The following maintenance instructions should be observed and completed to ensure long and continued good performance of the Mow-Chip Rotary Brush Mower.

1. The following bolts should be torqued with a torque wrench. Motor bolts, gear box bolts and safety device bolts. Check these bolts after 4 hours of operation and at appropriate times thereafter.
2. Nuts on stumpjumper and bar must be torqued tightly every 8 to 16 hours. Tighten castle nut which holds stumpjumper or bar to lower end of gearbox. Torque tightly.
3. Maintain correct lubricant levels by making regular check of gearbox prior to the operation of the mower. SAE 80-90 gear lubricant is recommended. Check lubricant levels on side of gearbox where pipe plug is located. Lubricant should be the same level as the plug. Do not overfill, excess lubricant can damage gearbox seals.
4. Sound sharp mower blades are vital to proper function of the mower:
  - By regular inspection of blades, operator should ensure blades are sharp, free of chipping and tightened.
  - Blades must be replaced in pairs.
  - Blades must not be welded or straightened.
  - Damaged blades may create vibration and dangerous conditions and mower function.

## Maintenance Checklist

The following is an extremely important list that should be carried out on a regular schedule:

- Blades**  
Check before each use for damage or bending. Replace if necessary, in pairs only. Do not attempt to weld or straighten blades.
- Shaft**  
Inspect shaft regularly for foreign material and remove if present.
- Bolts and Nuts**  
Extremely Important: Make sure skidsteer is shut off prior to the following step.
  - Remove blade bolt cover and check that blade bolts are securely tightened.
  - Torque all bolts tightly.
  - Blade bolts should be checked every 6 hours.
  - All bolts should be checked regularly, replaced if damaged, and retorqued tightly.
- Gearbox**  
Check lubrication level regularly and ensure correct level is maintained. Recommended gear lubricant is SAE 80-90 weight gear lubricant.

# Trouble Shooting

The following trouble shooting suggestions may assist in solving some problems should they arise:

1. **Oil Leaks**

- Improperly installed or missing motor drain plug.
- Damaged gearbox seal.
- Bent or damaged shaft on gearbox.
- Loose or improperly connected hydraulic connections.

2. **Power Loss**

- Low, overheated or contaminated hydraulic fluid.
- Gearbox lubricant level too low.
- Input shaft key missing.
- Broken gearbox motor shear pin.

3. **Sudden or Excessive Mower Vibration**

- Loose nuts or bolts.
- Broken or damaged blades.
- Blade carrier unbalanced.
- Bent shaft on gearbox.



# LIMITED WARRANTY

Warranty service will be performed by AgLand Dealer authorized to sell the Mow-Chip.

## AGLAND WARRANTY

Prairie Queen Inc. manufactures the Mow-Chip. Prairie Queen Inc. (Manufacturer) warrants each Mow-Chip sold by it to be free of defects in material or workmanship under normal use and service. The sole obligation of the Manufacturer is limited to repairing or replacing, as the Manufacturer may elect, any part or parts that prove, in the Manufacturer's judgement, to be defective in material or workmanship within one year after delivery to the original Retail Purchaser under normal use. The defective part or parts will be replaced or repaired only to the original Retail Purchaser. Warranty repair or replacement will be done at the location of the AgLand Dealer who sold the Mow-Chip. Defective parts must be returned to the AgLand Dealer who sold the Mow-Chip at the expense of the Retail Purchaser to be inspected by the Manufacturer. Purchaser must give written notice to the Dealer from whom the Mow-Chip was purchased of any claimed defect and the Dealer will repair or replace the part or parts found to be defective.

**Note: The sole remedy of the Purchaser for claim under this warranty is the repair or replacement of defective parts.**

This warranty does not extend to the drive components, which are made by other manufacturers and carry warranties from said manufacturers. This warranty does not extend to the blades nor to the bolts that hold the blades in place. There are no representations, warranties, or conditions, express or implied, statutory or otherwise, except those herein contained and no agreement collateral otherwise except those herein contained, and no agreement collateral hereto shall be binding upon either party unless in writing hereon or attached hereto, signed by the Purchaser and accepted by the Manufacturer at its head office.

## SERVICE AND WARRANTY INFORMATION

The Manufacturer's liability under this warranty is limited to the repairing or replacing of parts only, and the Manufacturer shall in no event be liable to the Retail Purchaser for consequential damage or loss of profits sustained by it as a result of any defect in material or workmanship on any of the equipment covered by this warranty.

Altering, modifying or adding additional equipment which is not approved for installation on the Mow-Chip by the Manufacturer will void this warranty.

All warranties are subject to legislation of the state or province in which the Mow-Chip is sold.

**Note: There are no warranties, express or implied, by the Manufacturer or its Dealer regarding the Mow-Chip except the warranty against defects in the material or workmanship expressed herein. No person is authorized to bind the Manufacturer to any other warranty whatsoever.**

The Manufacturer reserves the right at any time to make changes in the design, material, parts, or specifications of the Mow-Chip without thereby becoming liable to make similar changes in equipment, machinery or parts previously manufactured.

## Prairie Queen Industries