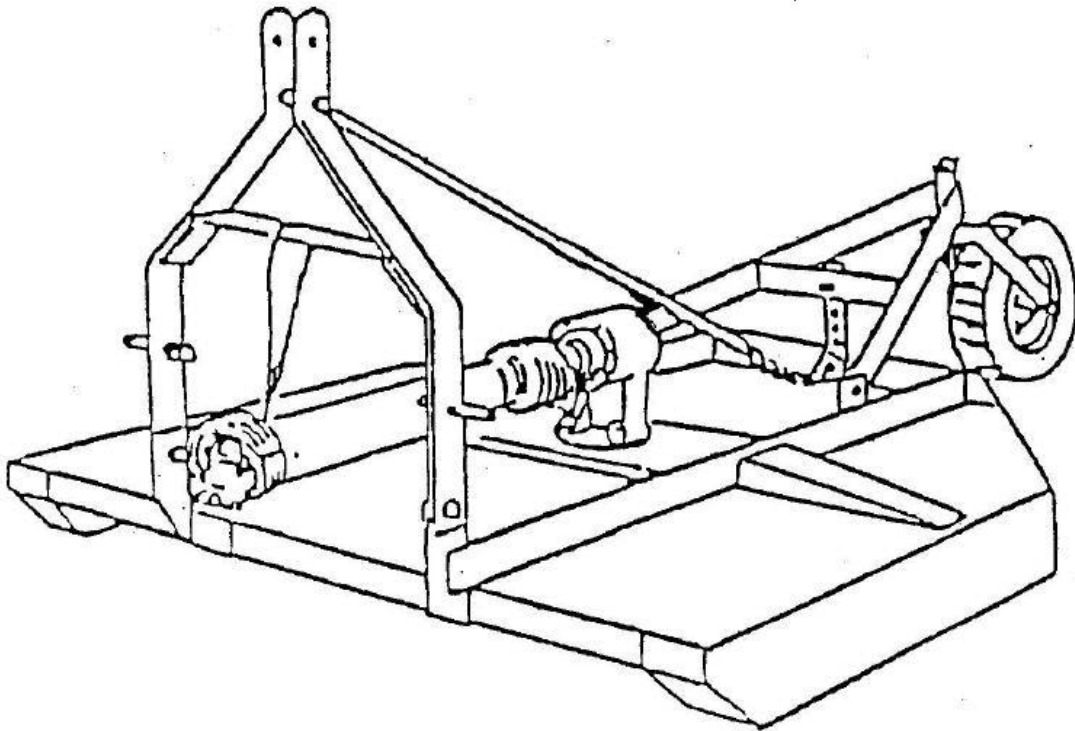


# **FARM-MAXX**

**Models URC-48, URC-60, URC-72 and URC-84  
Rotary Cutters**

## **Operator's Manual**



### **IMPORTANT!**

**Read This Operator's Manual Carefully and  
Completely Before Operating the Rotary Cutter!**

# Please consult your dealer with any questions you may have!

No part of this manual shall be reproduced, copied or disseminated by any means, without Unifarm Machinery Corporation's prior authorization in writing.

Unifarm Machinery Corporation reserves the right to make any necessary changes without giving prior notice, in order to optimize the quality and safety features and does not commit itself to updating this manual every time a change is made.

This booklet provides a thorough and accurate description of the instruction and maintenance activities to be carried out on the tiller you purchased. We congratulate you on your choice and urge you to thoroughly familiarize yourself with and follow the instructions contained in this manual.

This will assure you a long, safe and trouble free working life for your Phoenix Tiller.

The Manufacturer shall not assume any responsibility should problems arise as a result of lack of compliance with the instructions and/or operator's negligence.

The manual is divided in chapters and paragraphs and the pages are numbered, thus offering accurate and precise information.

The requested information can be easily found by searching the key words or referring to the index.

## Safety Precautions

Due to the type of performance for which this machine was designed, the operator should be very careful and practice all safety precautions during operation. Being of basic design throughout the farm equipment industry, rotary cutters have fast moving blades that can throw objects that the operator runs over. It is possible to do serious injury to yourself or to others, if you fail to read and practice the below mentioned safety rules. **ONLY EXPERIENCED AND TRAINED OPERATORS** with a thorough understanding of the purpose and capabilities of this rotary cutter should be allowed to operate it.

1. **IMPORTANT!** Read and become familiar with the instructions on the rotary cutter decals. These decals have been placed at various places on the machine to remind you to be cautious for your protection as well as that of others.
2. Before operating the rotary cutter carefully inspect the area on which the rotary cutter will be used. Be sure to remove all objects that might be thrown by the rotating blades. Also, note any gullies, ditches, or rough terrain when you are inspecting the prospective work area.
3. Check the machine frequently to be sure there are no loose bolts and that snap rings are in place.
4. Always use and maintain in place all PTO guards furnished with the rotary cutter as well as the guards furnished with the tractor.
5. Disengage the PTO and cut off the tractor engine before leaving the tractor.
6. It is recommended that the tractor be equipped with a roll over protective structure and a seat belt and that they be used at all times when operating this equipment. This is the responsibility of the operator.
7. It is noted that on tractors with "live" PTO, the centrifugal force of the rotating blades will tend to force the tractor in the direction of travel. This can result in an accident or injury if the operator does not reduce his speed before turning or allowing adequate distance between the tractor and turning point or obstacle. (Your dealer has a fee wheel and over-running couple to curtail the centrifugal force.) The couples serve as an added safety device.
8. The blades and PTO shaft will continue to rotate for a short time after the tractor PTO power is cut off. Be sure all rotation has stopped before attempting to service the machine or approach it for any reason.
9. Never position yourself under the machine for any reason. It could fall on you!!! Never manually feed the machine for any reason. Never put your hands, feet, or other bodily parts under the deck of the cutter without first being sure that the blades have ceased all movement, and all power is cut off.

10. Chain guards (optional equipment) should be added to the machine when it is used in areas where people, animals, or property may be hit or endangered by thrown objects. The rapidly rotating blades may strike and throw wire, sticks, loose rocks, or trash with considerable force. Even with chain guards, it is recommended that the operator be sure to keep all persons and animals far enough away from the operating area to be completely clear of thrown objects.
11. Never allow riders on machine or tractor!
12. Transport machine at safe speed.
13. Do not operate this equipment after consuming alcohol or certain medications that may cause drowsiness. If in doubt, ask your physician.
14. Do not allow minors to operate this machinery. Allow only trained personnel familiar with the machinery with the operator's manual.

## **Assembly and Set - Up Instructions**

- A. Set up A-Frame and position hitch pins into proper position. Be sure to use lock washers and tighten bolts securely. Attach the flex chain brace to A-Frame then fasten chain end on the tail wheel adjustment bracket.
- B. Remove the snap ring from the input shaft on the gear box. Attach the PTO shaft and install the shear bolt. Be sure to replace the snap rings to the gear box input shaft. The snap ring will hold the PTO shaft in place if the shear bolt is sheared.
- C. Check all bolts including gear box mounting bolts, blades, and blade carrier bolts.
- D. Adjust the tail wheel bracket to level the rotary cutter or obtain desired cutting position.
- E. Lubricate gearbox, tail wheel hub, tail wheel spindle, PTO U-Joints.
- F. Attach rotary cutter to the tractor.

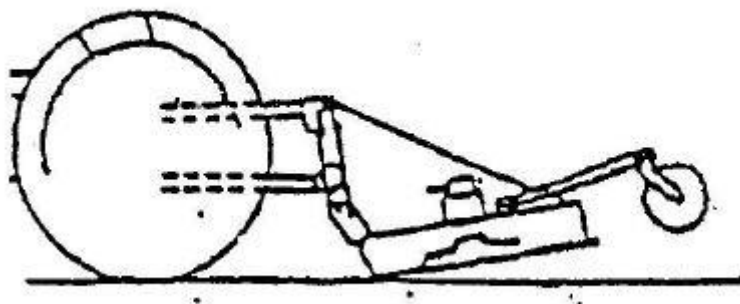
## **Operation**

**THE URC-60, URC-72, AND URC-84 ROTARY CUTTERS ARE  
DESIGNED TO BE USED WITH TRACTORS FROM 15HP TO  
70HP EQUIPPED WITH 540RPM PTO.**

1. Check gear box for lubrication prior to operation.
2. Check all lubrication points on PTO shaft and tail wheel.
3. Be sure all bolts are tight and snap rings are in place.
4. Be sure the rotary cutter is properly mounted on the tractor.
5. Adjust and level rotary cutter for the desired cutting height.

### **ADJUSTING LEVEL OF CUTTER ON YOUR TRACTOR**

#### **CUTTER TOO LOW IN FRONT**

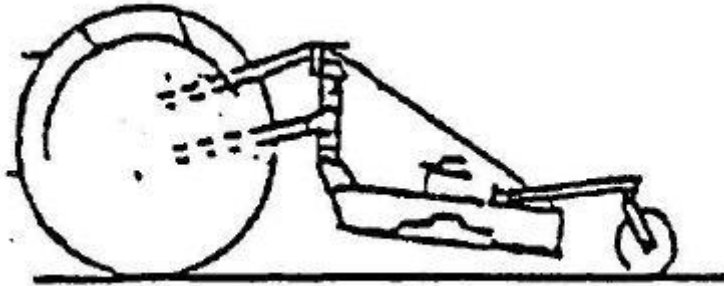


### **INCORRECT!**

THE ABOVE POSTION MAKES THE BLADE TOO HIGH CAUSING SKIPPING AND UNEVEN CUTTING. IT ALSO ALLOWS THE BLADES TO STRIKE THE GROUND CAUSING THE SLIP CLUTCH TO SLIP EXCESSIVELY AND THE BLADES TO WEAR PREMATURELY.

### **ADJUSTING LEVEL OF CUTTER ON YOUR TRACTOR (cont.)**

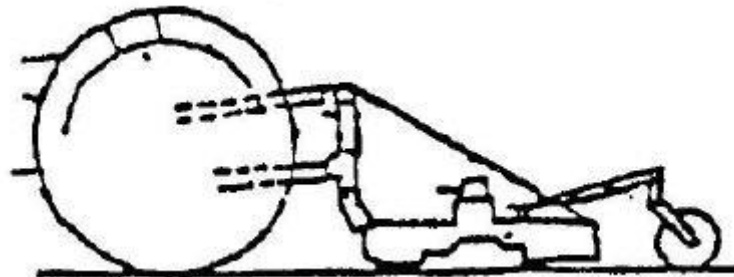
#### **CUTTER TOO LOW IN REAR**



### **INCORRECT!**

THE ABOVE POSTION CAUSES EXCESSIVE WEAR AND TEAR ON THE TAIL WHEEL. THE REAR SKIRT DRAGS ALLOWING UNNECESSARY DEBRIS TO BE COLLECTED UNDER THE ROTARY CUTTER.

#### **CUTTER LEVEL**



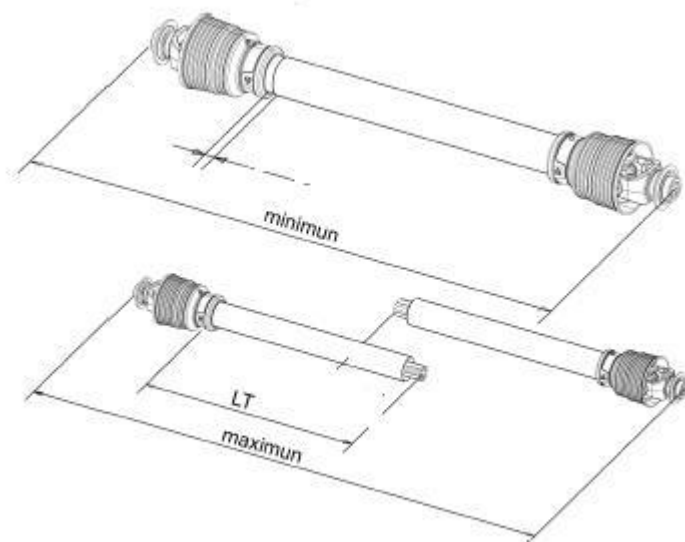
### **CORRECT !**

## **STARTING FOR THE FIRST TIME**

1. If everything is in place, and the rotary cutter is properly connected to the tractor, start the tractor and raise the rotary cutter slowly. While watching the PTO shaft, raise and lower the rotary cutter until you have positioned the PTO shaft to the shortest telescoping point. This position will check the PTO shaft to make sure it is not too long. With the shaft positioned at its shortest length the two telescoping shaft halves should lack two inches (2") meeting. Now, check the PTO shaft to be sure it is not too short. \*\*\* Position the rotary cutter so that the PTO shaft will be at its longest position. At this position the two telescoping shafts should engage at least six inches (6"). Be sure the PTO clears the front of the cutter deck when the cutter is raised. If it does not clear, readjust the top link on your tractor to correct this problem. You may want to set the stop on your hydraulic control level so that the cutter will not accidentally be raised too high. Now engage the

PTO, slowly let the rotary cutter run at low speed for a few seconds and gradually increase throttle to operating speed. Watch carefully for signs of excessive vibration or unusual noises. If any are noticed, disengage PTO and cut off the tractor immediately! Wait for all moving parts to come to a complete stop and investigate the cause. A new gearbox may be noisy at first, but usually a few hours of use will mesh the gears and create a quieter, smoother operation.

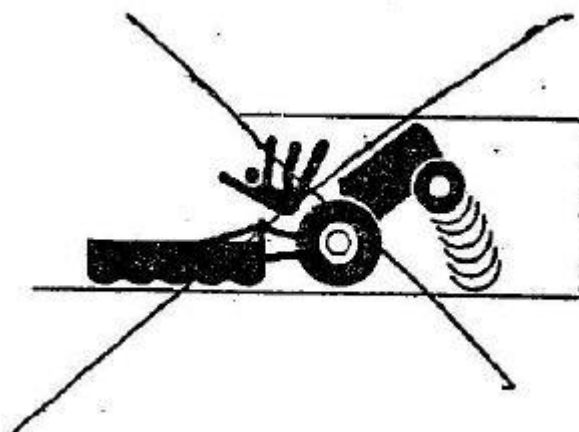
## **STARTING FOR THE FIRST TIME (cont.)**



2. We suggest that you get the feel of your rotary cutter on open familiar ground. Remember that the centrifugal force of the rotary cutter blades and carrier can keep pushing you forward even after you have disengaged your clutch, unless your tractor is equipped with live PTO or an over-running clutch. Therefore, approach obstacles with caution!

\*\*\*If it is determined that your PTO shaft is either too long or too short, please consult with your dealer for correct shaft length. This is not a frequent problem, however, the correct shaft length should be checked to avoid damage to the PTO shaft or other components.

**IT IS UP TO YOU!**  
**BETTER TO BE “SAFE” THAN “SORRY”!**



**Don't find out the hard way that careless actions can make you, your family, your friends, or an innocent by-stander the victim of an accident. Safety is an everyday need. Outfit yourself with a complete safety program.**

## **READ YOUR OPERATOR'S MANUAL THOROUGHLY!**

Know how to operate your machine properly and safely. Always take the necessary safety precautions!



**Think before you act!**

### **GENERAL MAINTENANCE**

1. Tractor and Rotary Cutter must be "Shut Off" (Disengaged from any power) before any acts of maintenance are performed.
2. Check oil level in gear box periodically. Keep level up to check plug. Use SAE 90 or SAE 140 Transmission Oil. Use caution not to overfill.
3. Lubricate universal joints on PTO shaft every few hours of use. Keep PTO shaft free of dirt and foreign materials so that it will telescope freely to avoid damage to your tractor or rotary cutter.
4. Lubricate tail wheel spindle and hub as required.
5. Keep blades sharp. When replacing worn blades, be sure to replace in pairs to maintain rotary balance.
6. Keep all bolts tightened properly.

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### **WARRANTY**

Unifarm warrants each new URC -60, URC-72, and URC-84 Rotary Cutter against defects in material and workmanship for a period of 90 days or a reasonable period of time dependant upon the type of use.

In the event that it is necessary to replace or repair any part (s) during the warranty period, please go to your dealer with the defective part(s) and he will assist you in securing the needed replacement.

Neither manufacturer or the dealer shall be held responsible for loss of use of the machine, loss of time, inconvenience, commercial loss, or consequential damages.

In order for your **Farm-Maxx Rotary Cutter** Model URC-60, URC-72, URC-84, to be covered by our warranty policy, the warranty registration form must be completed and returned within 10 days of purchase date. (See last page of this book for registration form)

The warranty policy is not effective unless the equipment registration is recorded in our office.

Send to:  
Unifarm Machinery Corporation  
PO Box 38

Wilson, NC 27893  
Attn: Warranty Registration

## OWNER REGISTRATION

\*\*\*\*\*

OWNER'S NAME: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ COUNTY: \_\_\_\_\_

STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

.....

PURCHASED FROM: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ COUNTY: \_\_\_\_\_

STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

DATE PURCHASED: \_\_\_\_\_

.....

OWNER'S SIGNATURE: \_\_\_\_\_

OWNER'S NAME (PRINT): \_\_\_\_\_

DATE: \_\_\_\_\_

MODEL: \_\_\_\_\_

SERIAL NUMBER: \_\_\_\_\_

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