DEALER PREPARATION CHECK LIST
Frontier 20 Series Rotary Cutter

THIS CHECKLIST IS TO REMAIN IN OWNER’S MANUAL

It is the responsibility of the dealer to complete the procedures listed below, then review this checklist with the customer upon the delivery or the sale of this implement.

- 1. Implement is completely assembled.
- 2. Gearbox filled with oil and checked for possible leaks. (See page 31)
- 3. All fittings lubricated. (See page 20 - 21)
- 4. All shields in place and in good condition.
- 5. Verify cotter pin is installed in castle nut located on output shaft of gearbox.
- 6. All fasteners torqued to specifications in Torque Chart. (See page 34)
- 7. Check PTO driveline. Make sure it is the correct length to operate rotary cutter with intended tractor. (See page 14)
- 8. Check front of input gearbox shaft and make sure that snap ring is properly installed. (For models RC2048, RC2060 & RC2072)
- 9. Check shear/retaining bolt for proper grade and installation. (See page 23, 24, 25 and 39)
- 10. All decals in place and readable. (See page 8 - 9)
- 11. Overall condition good (i.e. paint, welds)
- 12. Operator’s manual has been given to owner and the owner has been instructed on the safe and proper use of the rotary cutter.

Dealer’s Signature ________________________________
Purchaser’s Signature ____________________________

Safety

IMPORTANT SAFETY MESSAGE FOR OWNERS/OPERATORS OF ROTARY CUTTERS

From members of the Farm Equipment Manufacturers Association’s Rotary Cutter Manufacturer Product Council

Safety is a primary concern in the design, manufacture, sale, and use of rotary cutters. As manufacturers of rotary cutters, we want to confirm to you, our customers, our concern for safety. We also want to remind you about the simple, basic, and common sense rules of safety when using a rotary cutter. Failure to follow these rules can result in severe injury or death to operators or bystanders.

It is essential that everyone involved in the assembly, operation, transport, maintenance, and storage of this equipment be aware, concerned, prudent, and properly trained in safety. The majority of accidents involve entanglement on the driveline or thrown objects. These risks become greater when you do not use proper shielding specified by the manufacturer.

Our current production machines include, as standard equipment, guards or shields for drivelines and input shafts, safety signs and operators manuals. If you have an older machine which does not have current standard safety equipment, please contact your dealer about bringing your machine up to the current level of safety.

Below are some of the most important safety rules to be understood and followed by anyone who works with rotary cutters:

Before operating a rotary cutter, an operator must read and understand all the information in the owner’s manual and in the safety signs attached to the product. A person who has not read or understood the owner’s manual and safety signs is not qualified to operate the cutter. Accidents occur often on machines that are loaned or rented to someone who has not read the owner’s manual and is not familiar with a rotary cutter. If you do not have an owner’s manual or current production safety signs, contact the manufacturer or your dealer immediately.

Rotary cutters are designed for one-man operation. Never operate the cutter with anyone near, or in contact with, any part of the implement or PTO driveline. Be sure no one else, including bystanders, is near you when you operate this product.

If operation of a rotary cutter around bystanders, animals, or property that may sustain damage (such as highway, park, or airport) is absolutely necessary, use safety guarding recommended by the manufacturer for thrown object prevention (such as chain guards).

Following these simple, basic safety rules, as well as others identified in the owner’s manual and in product safety signs, will help minimize the possibility of accidents and increase your productivity in using this product. Be careful and make sure that everyone who operates the cutter knows and understands that it is a very powerful piece of machinery, and if used improperly, serious injury or death may result. The final responsibility for safety rests with the operator of this machine.

A safety manual for Rotary Cutters is available through the FEMA office.

Phone: 314.878.2304
E-mail: staff@FarmEquip.org

2 Introduction
TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Frontier dealer. Read manual instructions and safety rules. Make sure all items on the Preparation Check List in the Operator’s Manual are completed before releasing equipment to the owner.

The dealer must complete the Product Registration form, located on the Frontier web site. Failure to complete and return the form does not diminish customer’s warranty rights.

TO THE OWNER:

Read this manual before operating your Frontier equipment. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all adjustments and operating procedures before attempting to operate the equipment. Replacement manuals can be obtained from your selling dealer.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Please observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Frontier dealer has trained mechanics, genuine Frontier service parts, and the necessary tools and equipment to handle all of your service needs.

Use only genuine Frontier service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation.

Throughout this manual, the term IMPORTANT is used to indicate that failure to observe procedures can cause damage to equipment. The terms CAUTION, WARNING and DANGER are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.

This Safety-Alert Symbol indicates a hazard and means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

DANGER

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

IMPORTANT

Indicates that failure to observe can cause damage to equipment.

NOTE

Indicates helpful information.

Introduction 3
All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

General Information

The purpose of this manual is to assist you in operating and maintaining your rotary cutter for years of service. Read it carefully. The information and instructions in this manual have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but due to possible inline production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.

WARNING: Some illustrations in this manual show the rotary cutter with safety shields removed to provide a better view. The rotary cutter should never be operated with any safety shielding removed.

Throughout this manual, references are made to right and left direction. These are determined by standing behind the equipment facing the direction of forward travel. Blade rotation is counter-clockwise as viewed from the top of the mower.
SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator’s single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgment, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said “The best safety device is an informed, careful operator.” We ask you to be that kind of operator.

• Training

Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer.) Failure to follow instructions or safety rules can result in serious injury or death.

If you do not understand any part of this manual and need assistance, see your dealer.

Know your controls and how to stop engine and attachment quickly in an emergency.

Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.

Never allow children or untrained persons to operate equipment.

• Preparation

Check that all hardware is properly installed.

Always tighten to torque chart specifications unless instructed otherwise in this manual.

Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

Make sure attachment is properly secured, adjusted, and in good operating condition.

Make sure collar slides freely and is seated firmly in tractor PTO spline groove.

Before putting equipment into service, check and adjust driveline length as instructed in Operator’s Manual. Driveline must not bottom out or pull apart throughout the full range of the tractor hitch. Do not operate until driveline length is correct.

Make sure driveline shield safety chain is attached as shown in this manual. Replace if damaged or broken.

Check that driveline guards rotate freely on driveline before putting equipment into service.

Before starting power unit, check all equipment driveline guards for damage. Replace any damaged guards.

Make sure all guards rotate freely on all drivelines. If guards do not rotate freely on drivelines, repair and replace bearings before putting equipment into service.

Inspect chain or rubber guards before each use. Replace if damaged.

Remove accumulated debris from this equipment, power unit, and engine to avoid fire hazard.

Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in “locked up” position at all times.

A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights.

Weigh the tractor and equipment. Do not estimate.

(Safety Rules continued on next page)
(Safety Rules continued from previous page)

Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.) Make sure shields and guards are properly installed and in good condition. Replace if damaged. Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.

**Transportation**

Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in “locked up” position at all times.

A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.

Always comply with all state and local lighting and marking requirements.

Never allow riders on power unit or attachment.

Do not operate PTO during transport.

Watch for hidden hazards on the terrain.

Do not operate or transport on steep slopes.

Do not operate or transport equipment while under the influence of alcohol or drugs.

When encountering rough terrain during transport, reduce tractor speed to minimize the horizontal movement of cutter.

Stabilizer bars should be used during transport to reduce lateral movement of cutter.

**Operation**

Do no allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

Never direct discharge toward people, animals, or property.

Use both front and rear guards to reduce the possibility of object being thrown.

These mowers are intended for agricultural applications only. Do not operate within 300 feet of bystanders or public roads or highways.

Do not operate or transport equipment while under the influence of alcohol or drugs.

Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.

Operate only in daylight or good artificial light. Always comply with all state and local lighting and marking requirements.

Never allow riders on power unit or attachment.

Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in “locked up” position at all times.

Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.

Operate tractor PTO at 540 RPM. Do not exceed.

Do not operate PTO during transport.

Look down and to the rear and make sure area is clear before operating in reverse.

Do not stop, start, or change directions suddenly on slopes.

Use extreme care and reduce ground speed on slopes and rough terrain.

Watch for hidden hazards on the terrain during operation.
Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

Leak down or failure of mechanical or hydraulic system can cause equipment to drop.

**Maintenance**

Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, set parking brake, stop engine, remove key, and unfasten seat belt.

Before performing any service or maintenance, disconnect driveline from tractor PTO.

Before working underneath, carefully read Operator’s Manual instructions, disconnect drive line, raise mower, securely block up all corners with jack stands, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failures, or mechanical component failures.

Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.

Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

Make sure attachment is properly secured, adjusted, and in good operating condition.

Keep all persons away from operator control area while performing adjustments, service, or maintenance.

Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator’s Manual instructions for working underneath and blocking requirements or have work done by a qualified dealer.

Make certain all movement of equipment components has stopped before approaching for service.

Frequently check blades. They should be sharp, free of nicks and cracks, and securely fastened.

Do not handle blades with bare hands. Careless or improper handling may result in serious injury.

Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.

Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.

Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)

Make sure shields and guards are properly installed and in good condition. Replace if damaged.

**Storage**

Block equipment securely for storage.

Keep children and bystanders away from storage area.

Follow manual instructions for storage.

Always use a tractor to position equipment for storage. Never attempt to move equipment by hand.
SAFETY and INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately if Damaged!

RC2072 WITH LAMINATED TAILWHEEL

RC2072 WITH SOLID RUBBER TAILWHEEL

8 Safety and Instruction Decals
SAFETY and INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately if Damaged!

CAUTION
Operate only with 540 rpm PTO

INFORMATION
Unit ships without oil in gearbox and without grease in grease fittings. Fill with 90 wt. oil and grease all fittings before first use. Failure to do so will cause permanent damage to gearbox and other moving parts.

DANGER
THROWN OBJECTS
Do not operate cutter near people. Debris can be thrown hundreds of feet. Keep all shields in place. Including those on discharge opening at front and rear of deck.

ROTATING BLADES
Do not put hands or feet under or into cutter with engine running or blades rotating.

WARNING
Pinch Point Hazard
Keep Clear

To Avoid Serious Injury:
- Read Operator’s Manual before operating, servicing or repairing equipment. Follow all safety rules and instructions. Manuals are available from your selling dealer.
- Never allow riders.
- Keep bystanders away from equipment during operation.
- Operate from tractor seat only.
- Keep all shields in place and in good condition.
- Lower equipment to ground, stop engine, remove key and set brake before dismounting tractor.
- Never allow children or untrained persons to operate equipment.

AVOID INJURY

RED REFLECTOR
(2 Needed)

SERIAL NUMBER

ENTANGLEMENT

WARNING
Avoid Serious Injury or Death From Accidental Lowering of Cutter
- Always support cutter with safely stands or blocks prior to servicing or performing maintenance under the cutter.

LOWER CUTTER

THROWN OBJECT

THROWN OBJECT

Pinch Point Hazard
Keep Clear

Warning Label Sheet
Part Number TIFC711209
(Contains Label #s 1, 2, 3, 6, 7, 8 & 9)

540 RPM
NEEDS OIL

5 RED REFLECTOR
TIFC711207 – RC2048, RC2060, RC2072
5TIFC711232 – RC2084

6 THROWN OBJECT

7 LOWER CUTTER

8 NEEDS OIL

9 THROWN OBJECT

10 PINCH POINT

Safety and Instruction Decals 9
GENERAL DESCRIPTION

Your 20 Series Frontier Rotary Cutter has been carefully designed for cutting grass and small brush. This manual is provided to give you the necessary operation and maintenance instructions for keeping your rotary cutter in excellent operating condition. Please read this manual thoroughly. Understand the purpose of the controls and how to use them. Observe all safety precautions on the machine and as noted throughout this manual. If any assistance or additional information is needed, contact your authorized Frontier dealer. Each cutter has free-swinging blades which reduce the shock on impact when a stationary object is hit. A shear bolt through the input shaft or slip clutch equipped driveline protects the gearbox and driveline from damage.

Major components

Cutter configuration: slip clutch, front and rear guards, and laminated tire

10 Description
<table>
<thead>
<tr>
<th>Model</th>
<th>RC2048</th>
<th>RC2060</th>
<th>RC2072</th>
<th>RC2084</th>
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<td>Cutting Width, in. (mm)</td>
<td>48 (1220)</td>
<td>60 (1524)</td>
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<td>1.5 to 9 (38 to 229)</td>
<td>1.5 to 9 (38 to 229)</td>
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<td>0 to 1 (0 to 25)</td>
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<td>7.5 (190)</td>
<td>7 (180)</td>
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<td>Lift-Type</td>
<td>Lift-Type</td>
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<td>2, Cat 2 Quik Hitch compatible</td>
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<td>11 (3)</td>
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<td>Shear Bolt or Slip Clutch</td>
<td>Shear Bolt or Slip Clutch</td>
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<td>65</td>
<td>90</td>
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<td><strong>Wheels</strong></td>
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<td>Solid Rubber or Laminated</td>
<td>Solid Rubber or Laminated</td>
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<td><strong>Enclosure Options</strong></td>
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<td>Front Guard</td>
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<td>Foot Guard/Belting or Chain</td>
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<tr>
<td>Assembly/Set-Up Time (Approx.)</td>
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<td>1 Man Hour/Unit</td>
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</table>

*Cutter configuration: slip clutch, front and rear chain shielding, and laminated tire.*
**PREPARATION**

• Selecting Tractor PTO Speed

**IMPORTANT:** Never operate a cutter equipped for 540 rpm PTO drive with a tractor equipped to 1000 rpm PTO.

Always run tractor at rated PTO speed. Overspeed will cause damage to drive system.

Refer to your tractor Operator’s Manual to change PTO stub shaft, if necessary.

• Positioning Drawbar

**IMPORTANT:** To prevent damage to the driveline, remove, shorten, or place drawbar to one side. If equipped with clevis, remove it.

• Preparing the Cutter

Perform the following procedures before operating the cutter:

**Gearbox**
- Check oil level. (See Lubrication and Maintenance section.)
- Check hardware torque. (See Lubrication and Maintenance section.)
- Remove any material wound on gearbox shafts.
- Check oil seals for leakage.

**Blades and Blade Holder**
- Inspect blades for wear or damage. (See CHECKING BLADE WEAR in Service section.)
- Check blade hardware torque. (See Lubrication and Maintenance section.)
- Check blade holder hardware torque. (See Lubrication and Maintenance section.)

**Hitch Pins**
- Check torque on hitch pin lock nut.
- Insure all bolts on cutter are fastened securely.

**Lubricating the Cutter**
- Lubricate cutter and driveline. (See Lubrication and Maintenance section.)
• Installing Hitch Pin Bushings for Category 1 Quick Coupler Hitch

NOTE: Install bushings on both hitch pins. Right-hand side shown. Use Frontier category 1 quick coupler bushing kit WS862500 or John Deere quick coupler bushing kit BW15056.

1. If using John Deere bushing kit BW15056 on RC2048, RC2060 or RC2072, install bushing (A) over hitch pin with cross hole as shown.
2. Install bushing (B) as shown.
3. Align holes in bushings with hole in hitch pin and install roll pin (C).
4. For RC2084, use John Deere bushing kit BW15056. Bushing A is not required.

• Using Category 2, 3-Point Hitch
(For models RC2048, RC2060 & RC2072)
Special adapter bushings are available from your John Deere dealer to accommodate tractors with category 2, 3-point hitch.

Install bushings on cutter hitch pins and tractor center link connection.

A - Center Link Connection
B - Hitch Pins

• Checking Driveline Shields

⚠️ DANGER ⚠️ Entanglement in rotating driveline can cause serious injury or death. Disengage PTO, engage parking brake or place transmission in “PARK”, shut off tractor, and remove key before working near driveline.

Check driveline shields by making sure they rotate freely.

Lubricate or repair if necessary.
ATTACHING

• Attaching Cutter to Tractor with
Quick Coupler Hitch

⚠ CAUTION: To avoid bodily injury or machine
damage whenever an implement is attached,
put transmission in PARK position and check
the full range of hitch for interference, binding,
or PTO separation. Do not stand between
tractor and implement.

1. Slowly push hitch control lever to lower hitch until
quick coupler hooks are lower than cutter hitch pins.
2. Back up tractor to cutter hitch.
3. Raise hitch high enough to engage cutter hitch
pins in hooks.
4. Engage tractor parking brake and/or place
transmission in “Park”.
5. Shut off tractor engine and remove key.
6. See ATTACHING PTO DRIVELINE in this section.

• Attaching Cutter to Tractor with
Three-Point Hitch

⚠ CAUTION: To avoid bodily injury or machine
damage whenever an implement is attached,
put transmission in PARK position and check
the full range of hitch for interference, binding,
or PTO separation. Do not stand between tractor
and implement.

1. Back up tractor to cutter with hitch points
approximately in alignment.
2. Engage tractor parking brake and/or place
transmission in “Park”.
3. Shut off tractor engine and remove key.
4. Remove center link mounting hardware and hitch
pin assemblies at both hitch masts.
5. Install tractor draft links on hitch pins. Secure with
quick-lock pins (stored on tractor draft links.)
6. Align center link with upper hole in cutter mast
straps and install center link mounting hardware.
7. See ATTACHING PTO DRIVELINE in this
section.

7. Start tractor engine.
8. Slowly pull hitch control lever to raise
cutter. Check for interference. (See
CHECKING DRIVELINE/CUTTER
CLEARANCE in this section.)
9. Lower cutter to ground and adjust if necessary.

A-Tractor Draft Links Inside
B-Tractor Draft Links Outside

8. Start tractor engine.
9. Slowly pull hitch control lever to raise
cutter. Check for interference.
(See CHECKING DRIVELINE/CUTTER
CLEARANCE in this section.)
10. Lower hitch to ground and adjust center link
and/or lift links if necessary.
(See procedures in your tractor Operator’s Manual.)
• Assembling PTO Driveline Telescoping Members (If Necessary)

1. Apply multipurpose grease around outside surface of inner driveline tube (A).
2. Align driveline halves and assemble telescoping members together.
3. Apply multipurpose grease, or equivalent, to all lubrication fittings before operating.
   (See Lubrication and Maintenance section.)

• Attaching PTO Driveline

**DANGER** Shut off tractor engine before attaching PTO driveline. Entanglement in rotating driveline can cause serious injury or death.

**IMPORTANT:** Keep driveline and powershaft splines clean of paint, dirt and chaff. Apply John Deere SD POLYUREA Grease or equivalent on tractor PTO shaft before attaching PTO driveline.

1. Shut off tractor engine.
2. Raise tractor PTO shield, if equipped.

**IMPORTANT:** Do not use bell on driveline to lift driveline into position. Damage to shielding can occur.

3. Support driveline, cradling it in your hand.
5. Pull back on shield to make sure driveline is locked.
6. Do not pull back on collar, this will release latch.
7. Lower tractor PTO shield, if equipped.

• Checking Driveline/Cutter Clearance

**IMPORTANT:** Prevent driveline damage from contact with frame or machine damage from contact with tractor tires. Raise cutter slowly and check for interference. If necessary, shorten center link or lengthen lift links to provide clearance to full lift height.

1. Raise cutter slowly and check for clearance between driveline shield and cutter deck.
2. Check clearance between tractor tires and foot guards or chain guard.

3. Check to see if hitch height position will provide clearance desired.

**NOTE:**
Final adjustments should be made before operating cutter. See ADJUSTING CUTTING HEIGHT AND ANGLE in Operating the Cutter section. Center link should be installed in lowest hole at tractor end if there are multiple holes. Lift height may also be limited by installing stops on rockshaft control lever bracket.

(continued on next page)
ATTACHING

(continued from previous page)

4. Shorten center link or lengthen lift links to provide clearance. (See your tractor Operator’s Manual.)

IMPORTANT: PTO driveline may be too long for some tractor models, causing tractor transaxle damage. Hold driveline sections parallel to each other and check for a minimum of 6 inches overlap.

5. Raise and lower cutter slowly to check for binding or interference. Check cutter-to-tractor driveline telescoping length to ensure it does not bottom out. Modify driveline if necessary. (See MODIFYING PTO DRIVELINE in Assembly section.)

DETACHING

• Detaching Cutter from Tractor

CAUTION: To prevent personal injury caused by unexpected movement:

a. Park machine on a level surface.
b. Engage tractor parking brake and/or place transmission in “Park”.
c. Disengage PTO.
d. Shut off tractor engine and remove key.

1. Park cutter on a level surface, or block tailwheel so machine cannot roll after detaching from the tractor.
2. Slowly push hitch control lever to lower cutter close to the ground.
3. Engage tractor parking brake and/or place transmission in “Park”.

DANGER Shut off tractor engine before detaching PTO driveline. Entanglement in rotating driveline can cause serious injury or death.

4. Shut off tractor engine and remove key.
5. Raise tractor PTO shield, if equipped.

IMPORTANT: Do not use plastic shield on driveline to hold driveline in position. Damage to shielding can occur.

6. Pull collar back toward cutter and slide driveline off tractor shaft.
7. Support and collapse driveline completely and lower onto PTO holder.
8. Lower tractor PTO shield, if equipped.

(continued on next page)
DETACHING

• Tractor with Quick Coupler Hitch

1. Raise both latch control levers on quick coupler (A).
2. Start tractor engine.
3. Lower cutter to the ground. Continue lowering quick coupler until hooks clear cutter hitch pins.
4. Carefully drive tractor away.

• Tractor with Three-Point Hitch

1. Remove quick-lock pins from hitch pins and install in storage position on tractor draft links.
2. Remove and lower tractor draft links from hitch pins.
3. Disconnect center link from mast straps.
   Position tractor center link in transport location. Reinstall center link pin/hardware.
4. Carefully drive tractor away.

IMPORTANT: After thirty days or more, linings of slip clutch may draw moisture. Linings may bond to metal parts causing slip clutch to be ineffective. Loosen all lock nuts on slip clutch. This will relieve spring load on the discs reducing this problem during storage. Preparing cutter for operation, refer to Assembling Slip Clutch in Service section, page 22.

OPERATION

General Safety

Only qualified people should operate this machine. Wear close fitting clothing and safety equipment appropriate to the job. It is recommended that tractor be equipped with Rollover Protective Systems (ROPS) and a seat belt be used. Before beginning operation, clear work area of objects that may be picked up and thrown. Check for ditches, stumps, holes or other obstacles that could upset tractor or damage rotary cutter. Always turn off tractor engine, set parking brake, and allow rotary cutter blades to come to a complete stop before dismounting tractor.

• Preparing Cutter for Operation

DANGER To help prevent severe injury or death to you or someone else:

a. Do not engage tractor PTO when cutter is in fully raised position (transport position).
b. Keep all persons away from machine when raising and lowering cutter.

IMPORTANT: To avoid damaging the machine from impact on ground when lowering, adjust rate at which hitch will lower.

1. Adjust tractor rockshaft rate-of-drop. Allow at least two seconds for machine to lower from full lift height to the ground. (See your tractor Operator’s Manual.)
2. If equipped, disengage tractor hitch/rockshaft control lever from transport lock position and lower cutter to the ground. (See your tractor Operator’s Manual.)
3. Adjust tractor lift links to level machine side-to-side. (See your tractor Operator’s Manual.)
4. Adjust cutting height and angle. (See Adjusting Cutting Height and Angle in this section.)
• Adjusting Cutting Height and Angle

**DANGER** Help prevent bodily injury or death caused by entanglement in rotating driveline or blades. Entanglement in rotating driveline or being struck by blades can cause serious injury or death. Before making any adjustments:

1. Loosen bolt and lock nut (B), remove bolt, washers and lock nut (A), raise tailwheel to highest position and install bolt, washer and lock nut (A).
2. Using rockshaft control lever, position front of cutter at desired cutting height at location.
3. Adjust depth stop. (See your tractor Operator’s Manual.)
4. Adjust center link so rear of cutter is approximately 2 inches (51 mm) higher than front.

**NOTE:**
The rotary cutter should be operated at the highest position which will give optimal cutting results. This will help prevent the blades from striking the ground, reducing blade wear and undue strain on the cutter. For best results under heavier cutting conditions, always tilt the rotary cutter approximately 2 inches (51mm) lower in the front. This tilt decreases horsepower requirements and increases potential ground speed. When fine shredding is desired, adjust rotary cutter deck level or slightly lower in the rear. This will keep the foliage under rotary cutter until thoroughly shredded. More power is required for shredding.

5. Lower tailwheel to support rear of the cutter.
6. Install bolt, washers and lock nut (A) into one of seven holes (C) that aligns with hole in wheel support.
7. Reinstall bolt, washers and lock nut. Tighten lock nut. (A)

**NOTE:**
The tailwheel supports the rear of the machine and the draft links support the front to allow the cutter to follow the ground contour.

These rotary cutters can be adjusted to several cutter heights by moving the rockshaft control lever in conjunction with moving the tailwheel adjustment bolt among the height adjustment holes. On the RC2048, RC2060 & RC2072, cutting heights can be adjusted from 1.5 inches to 9.0 inches. On the RC2084, the cutting height can be adjusted from 1.75 inches to 11.0 inches. On dual wheel models of the RC2084, both tailwheels will have to be adjusted.
**OPERATION**

**IMPORTANT:** Loosening the center link may allow the driveline to contact the cutter frame or tractor tires to contact the foot guards or chain shield. Raise the cutter slowly and check for interference. Lengthen tractor lift links to provide clearance to full height.

*NOTE:* Lift height may also be limited by installing stops on rockshaft control lever bracket.

8. Lengthen tractor lift links, if necessary, to provide clearance.

9. Adjust tractor center link until bushing is centered in slot.

**Follow Safe Operating Procedures**

1. Perform BEFORE EACH USE maintenance in the Lubrication and Maintenance section.

2. Start tractor per tractor operator’s manual.

3. Raise/lower 3-point hitch to place cutter in working position.

4. Look to be sure no one is near cutter.

5. With tractor at idle speed, slowly engage PTO drive.

**DANGER** STAY CLEAR OF ROTATING DRIVELINE. DO NOT OPERATE WITHOUT DRIVELINE SHIELDS IN PLACE AND IN GOOD CONDITION. FAILURE TO HEED THESE WARNINGS MAY RESULT IN PERSONAL INJURY OR DEATH.

6. Set tractor throttle for appropriate PTO speed (540 RPM).

**DANGER** ROTATING CUTTER BLADES. STAND CLEAR UNTIL ALL MOTION HAS STOPPED. TO AVOID AN ACCIDENTAL FALL FROM TRACTOR AND POSSIBLE INJURY BY MOWER, IT IS RECOMMENDED THAT TRACTOR BE EQUIPPED WITH ROLLOVER PROTECTIVE SYSTEM (ROPS) AND A SEAT BELT BE USED BY THE OPERATOR FOR ALL MOWING OPERATIONS.

7. Place tractor in gear and proceed forward.

**Note:**

*Tractor forward speed should be controlled by gear selection, not engine speed. For maximum cutting efficiency, forward speed should allow cutter to maintain a constant, maximum blade speed. If cutter stalls or tractor engine bogs, disengage PTO. Before re-engaging PTO, position cutter in a cut area and reduce tractor throttle to idle. If rotary cutter continuously stalls, select lower gear and/or increase cutting height.*

**• Keep Riders Off Machine**

**DANGER** Keep riders off. Riders are subject to injury or death such as being struck by foreign objects and being thrown off the machine. Riders may also fall off and be run over by machine. Riders also obstruct the operator’s view resulting in the machine being operated in an unsafe manner.

**• Follow Safety Operating Procedures**

**DANGER** To help prevent severe injury or death to you or someone else:

Never operate cutter when other people are in the vicinity. Debris can be thrown hundreds of feet. Keep all guards in place. Including those on discharge opening at front and rear of deck. Before starting machine, lower to the ground. Engage tractor PTO and gradually increase the speed.

Operate tractor at rated PTO speed. If engine speed is too slow or too fast, machine may not perform properly.

Where conditions make it necessary to slow ground speed, shift to a lower gear rather than reducing engine speed. The engine will maintain rated speed and keep cutter running at optimum cutting speed.

Operate machine from tractor seat only. Never adjust machine while in motion.

Slow down when turning or traveling over rough ground.

Avoid holes when operating on hillsides. Tractor roll-over could result.

Shut off tractor engine and engage tractor parking brake and/or place transmission in “Park” when leaving tractor. Remove key when leaving tractor unattended.

Components behind shields may rotate several minutes after power is shut off. Look and listen for evidence of rotation before removing shielding.

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*Operation 19*
• Lubricating and Maintaining Machine Safely

**DANGER** Help prevent bodily injury or death caused by entanglement in rotating driveline or blades. Entanglement in rotating driveline or being struck by blades can cause serious injury or death.

Components will be hot after operation. Let all components cool before servicing.

Replace all shields after lubricating or servicing.

• Maintenance Check List

Perform scheduled maintenance as outlined below. Lower machine to ground, turn off tractor and set parking brake before doing maintenance inspections or work. All bolts should be torqued as recommended in the Torque Specifications unless otherwise indicated.

• Maintenance Before Each Use

**CAUTION:** Do not clean, lubricate, or adjust machine while it is in motion.

1. Check tractor tire air pressure. Refer to tractor operator’s manual.
2. Check blades and spindles to be sure that no foreign objects such as wire or steel strapping bands are wrapped around them.
3. Check blade bolts for tightness.
   (Tighten to 425 ft./lbs.)

**IMPORTANT:** Operating with loose blade hardware will damage the blade holder and blades.

a. RC2048: Remove tailwheel tube assembly support. (See REMOVING AND INSTALLING TAILWHEEL SUPPORT in Service section.)

b. Locate blade hardware under hole.

*Note: Blade bolt tightening requires a 42mm socket with extension, a torque multiplier, and a torque wrench to torque nut to 425 ft./lbs.*

c. RC2048: Reinstall tailwheel tube assembly support in original position.

4. Inspect blades for wear. (See SERVICE SECTION Checking Blade Wear). Always replace both blades on blade holder with genuine Frontier parts.

5. Make certain driveline shields are in place and in good repair.

6. Inspect tailwheel for wear, damage, or foreign objects. (Repair or replace if necessary.)

7. Before each use refer to LUBRICATION LOCATIONS AND INTERVALS in this section.

8. During operation, listen for abnormal sounds which might indicate loose part, damaged bearings, or other damage.

• Maintenance After Each Use

1. Clean all debris from rotary cutter especially under side of deck. When cleaning underside of deck, securely block machine into position.

**IMPORTANT:** To help prevent structural damage caused by loose hardware, check all hardware after first eight (8) hrs. of use and tighten all hardware to specifications.

• Observe Lubrication Symbols

Lubricate with John Deere SD POLYUREA GREASE or equivalent SAE multipurpose-type grease (unless otherwise specified) at hourly intervals indicated on the symbols.
• Lubrication Before Each Use

1. Driveline Universal Joints
   a. Apply multi-purpose grease with a grease gun.

2. Driveline Guard
   b. Apply 2-3 shots of multipurpose grease with grease gun to plastic fitting.

3. Driveline Profile
   c. Disconnect PTO Driveline.
   d. Pull two sections apart.
   e. Apply thin coat of multi-purpose grease to inside of female section.
   f. Re-assemble sections.

   Note: Pull each section to be sure driveline and shields are securely connected. Make certain PTO shielding is in good condition. Do not grease outer or inner plastic shields.

4. Tailwheel Pivot Tube
   g. Apply multi-purpose grease with grease gun. (For dual wheel models of the RC2084, grease both pivot tubes.)

5. Tailwheel
   h. Apply multi-purpose grease with grease gun. (For dual wheel models of the RC2084, grease both tailwheels.)

6. Gearbox
   i. Check oil level by removing oil level check plug on side of gearbox.
   j. Add EP80-90W gear oil if necessary to bring oil level to check plug hole.

(1) Before Each Use
(2) Before Each Use
(3) Before Each Use
(4) Before Each Use
(5) Before Each Use
(6) Before Each Use

3d. Pull two sections apart.
• Practice Safe Service Procedures

CAUTION: To help prevent personal injury caused by unexpected movement, be sure to service machine on a level surface.

Before servicing or adjusting machine connected to a tractor:
1. Lower machine to the ground.
2. Engage tractor parking brake and/or place transmission in “Park”.
3. Disengage PTO.
4. Shut off tractor engine and remove key.
5. Wait until all moving parts have stopped.
6. Disconnect PTO driveline from tractor.

The blades and blade pan may rotate for several minutes after PTO is shut off. Look and listen for rotating driveline to stop before working on the cutter.

When servicing blades or blade pan, it will be necessary to work underneath cutter. Be sure to support cutter frame at all four corner locations with safety shop stands to prevent accidental lowering. Do not position safety stands under wheel support because these components can rotate.

• Disassembling and Assembling Driveline Shields
1. Separate telescoping parts.
2. Remove driveline shield screw (B).
3. Rotate cone to align tab (C) with hole (A) and slide shield rearward off of driveline.
4. Assemble in reverse order.

• Disassembling and Inspecting Slip Clutch
1. Remove slip clutch driveline. (See procedure in this section.)

NOTE:
Belleville springs, which are part of the clutch, keep tension on all components. When disassembling, release tension by loosening hardware progressively.

2. Loosen bolts and lock nuts progressively until tension is relieved.
3. Friction disks may appear to be part of the hub or yoke, tap lightly on edge to separate.
4. Inspect clutch components for wear or damage. Repair or replace parts as necessary.

(For models RC2048, RC2060 & RC2072)

• Assembling Slip Clutch
Assemble slip clutch in reverse order of disassembly using the following instructions:
1. Install Belleville spring with concave side facing towards yoke end.

IMPORTANT: To avoid driveline damage, DO NOT overtighten bolts and lock nuts. A gap must be left between clutch plate (B) and Belleville spring (C).

2. Tighten bolts and lock nuts progressively, leaving a gap (A) 4mm, between clutch plate (B) and Belleville spring (C).

(For model RC2084)

(Service continued on next page)
• Removing and Installing Driveline-Slip Clutch
  (For models RC2048, RC2060 & RC2072)
  1. Disconnect driveline shield chain.
  2. Open access panel on shield.
  3. Remove driveline assembly from gearbox output shaft by removing 1/2” x 3 1/2” Gr 8 bolt and lock nut.
  4. Push driveline onto input shaft toward gearbox and remove snap ring.
  5. Pull driveline from gearbox shaft.
  6. Make repairs as necessary:
     a. Slip clutch service - See DISASSEMBLING AND INSPECTING SLIP CLUTCH in this section.
     b. Driveline repair - See your John Deere dealer.

IMPORTANT: Apply multipurpose grease on gearbox input shaft. 1/2” x 3 1/2” Gr 8 bolt and lock nut required to attach driveline to gearbox input shaft.

7. Install driveline in reverse order of removal.
• **Removing and Installing Driveline-Slip Clutch**  
  *(For model RC2084)*

1. Disconnect driveline shield chain.
2. Open access panel on shield.
3. Remove driveline assembly from gearbox output shaft by compressing the quick disconnect collar.
4. Pull driveline from gearbox shaft.
5. Make repairs as necessary:
   a. Slip clutch service - See **DISASSEMBLING AND INSPECTING SLIP CLUTCH** in this section.
   b. Driveline repair - See your John Deere dealer.
6. Install driveline in reverse order of removal.

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**NOTE:** Slip clutch shield removed for illustration purposes.
• Removing and Installing Driveline-Shear Bolt
(For models RC2048, RC2060 & RC2072)
1. Disconnect driveline shield chain.
2. Bend back driveline shield cone.
3. Remove shear bolt and lock nut.
4. Push driveline onto input shaft toward gearbox and remove snap ring.
5. Pull driveline from gearbox shaft.
6. Replace or repair as necessary.
7. Install in reverse order of removal.

• Replacing Driveline Shear Bolt
(For models RC2048, RC2060 & RC2072)
IMPORTANT: Avoid shear bolt failure at start up by engaging the PTO slowly at low engine rpm.

If shear bolt fails:
1. Bend back driveline shield cone.
2. If necessary remove sheared bolt with hammer and punch and realign holes in yoke and shaft.
3. Replace with 1/2” x 3 1/2” Gr 2 bolt and lock nut.

• Removing and Installing Tailwheel Support
(For models RC2048, RC2060 & RC2072)

CAUTION: When removing and installing tailwheel support, it will be necessary to support the cutter. Before servicing cutter, refer to PRACTICE SAFE SERVICE PROCEDURES at the beginning of this section.

1. Remove 1/2” lock nut, washers and 1/2” x 4” bolt (A).
2. Remove tailwheel support.
3. Install tailwheel support in reverse order.

• Checking Blade Wear
IMPORTANT: Operating with blades that are not alike will cause vibration. Always replace worn or broken blades in pairs. Never replace a single blade. Check blades regularly for wear or breakage.
• Removing and Installing Dual Tailwheel Support
(For model RC2084)

CAUTION: When removing and installing tailwheel support, it will be necessary to support the cutter. Before servicing cutter, refer to PRACTICE SAFE SERVICE PROCEDURES at the beginning of this section.

1. Remove 1/2” lock nut, washers and 1/2” x 3” bolt (A).
2. Remove tailwheel support.
3. Install tailwheel support in reverse order.

• Removing and Installing Single Tailwheel Support
(For model RC2084)

CAUTION: When removing and installing tailwheel support, it will be necessary to support the cutter. Before servicing cutter, refer to PRACTICE SAFE SERVICE PROCEDURES at the beginning of this section.

1. Remove 1/2” lock nut, washers and 1/2” x 2” bolt (A).
2. Remove tailwheel support.
3. Install tailwheel support in reverse order.

• Checking Blade Wear

IMPORTANT: Operating with blades that are not alike will cause vibration. Always replace worn or broken blades in pairs. Never replace a single blade. Check blades regularly for wear or breakage.
• Replacing Blades

IMPORTANT: Operating with loose blade hardware will damage the blade pan and blades. Whenever the blades have been removed or replaced, blade hardware MUST also be replaced. Always use genuine Frontier parts. Check blade hardware torque after one hour of operation and every eight (8) hours thereafter.

NOTE: Suction blades have cutting edge on one side only. Note blade rotation when installing blades. (See DIRECTION OF BLADE ROTATION in this section.)

RC2048: Tailwheel support must be removed to locate blade access hole.

1. RC2048: Remove tailwheel support. (See REMOVING AND INSTALLING TAILWHEEL SUPPORT in this section.)
2. Manually rotate driveline to align lock nut with access hole in top of deck. Discard mounting hardware.
3. Install new hardware and tighten lock nut to 425 ft-lbs.
4. RC2048: Install tailwheel support.

• Direction of Blade Rotation

IMPORTANT: Cutter shown is viewed from the top. Take special note of blade rotation shown by the arrow.

CAUTION: When replacing blades, blade hardware and blade pan it will be necessary to work underneath cutter. Be sure to support cutter frame at all four corner locations with safety shop stands to prevent accidental lowering. Do not position safety stands under wheel support because these components can rotate.
**SERVICE**

• Replacing Blade Pan

1. Remove the blades. (See Replacing Blade in this section.)
2. Remove cotter pin from output shaft of the gearbox.
3. Loosen castle nut to the bottom of the output shaft (A). Do not remove castle nut as it must hold the blade pan when it becomes loose.
4. Tap with a hammer around the hub using a block of wood as shown in photo.

    *Note: The output shaft of the gearbox is tapered. A few taps around the hub will loosen the blade pan.*

5. Remove castle nut slowly and allow the blade pan to be removed.
6. Remove blade pan.

7. To reinstall blade pan, reverse the above steps. Be sure to tighten the castle nut and replace the cotter pin.
8. Replace blades. (See Replacing Blade in this section.)

• Replacing Tailwheel Pivot/Spindle

1. Remove \( \frac{1}{2} \)" lock nut, washer and \( \frac{1}{2} \)" x 4" bolt from height adjustment assembly.
2. Raise tailwheel to highest position and replace hardware in adjustment assembly.
3. Remove roll pin and washer (A).
4. Slide tailwheel assembly out of tailwheel support tube.
5. Replacing tailwheel, reverse the above steps.

• At The End Of Your Cutting Season

1. Drain and change the oil in the gearbox.
2. Check (and replace where necessary) blades, bolts, and nuts on the cutter.
3. Clean cutter and touch up any rust spots that may have appeared.
4. Replace any safety decals if damaged.
5. Store rotary cutter in a clean dry location.

    *CAUTION: Always use a tractor to position equipment for storage. Never attempt to move equipment by hand.*

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**STORAGE**

• At The End Of Your Cutting Season

1. Drain and change the oil in the gearbox.
2. Check (and replace where necessary) blades, bolts, and nuts on the cutter.
3. Clean cutter and touch up any rust spots that may have appeared.
4. Replace any safety decals if damaged.
5. Store rotary cutter in a clean dry location.

    *CAUTION: Always use a tractor to position equipment for storage. Never attempt to move equipment by hand.*

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28 Service/Storage
• Perform Predelivery Service Safely

⚠️ CAUTION: Understand the predelivery procedure before doing the work.

During the assembly, test, and adjustment procedures, it may be necessary to operate drives and hydraulic systems. Stay clear of machine elements when raising or lowering machine and during operation of drivelines.

Practice good communication with other service technicians. Be aware of their actions and alert them to potential hazards.

Never lubricate, service, or adjust machine while it is running. Keep hands, feet, and clothing away from power-driven or hydraulically operated parts. If it is necessary to inspect the machine while it is in operation, be alert to moving parts in the immediate area.

• Remove Shipping Dunnage and Parts

⚠️ DANGER To help prevent bodily injury from accidental lowering of the cutter, attach a lifting strap or chains to cutter rear support frame and a hoist.

1. Remove loose parts attached to the cutter on the underside of the deck and remove additional hardware from inside of the OM tube.
2. Wrap lifting strap or chains around cutter rear support frame and attach to a hoist.
3. Lower machine onto 4 inch wood blocks.
4. Remove all shipping bands, wires and loose parts from around the cutter.
5. Remove shipping stands from cutter by removing hitch pins (A) and 3/8” bolts (B). Discard shipping stands, flat washers and bolts.
6. Install hitch pins and tighten to specified torque.
   a) Normal configuration should be with the hitch pins facing towards the outside of the cutter.
   b) For model RC2048, RC2060 & RC2072 if the tractor will not extend out far enough for normal configuration, the hitch pins can be inverted. (See attaching Cutter to Tractor with Three-Point Hitch on page 14 for more details.)
**ASSEMBLY**

• **Assemble Hitch**
1. Rotate hitch up.
2. Install hitch pivot bushing, bolt, lock nut and tighten.

![Image - 36x721 to 174x163]

**IMPORTANT:** Please do not over tighten hardware.

3. For models RC2048, RC2060, and RC2072 attach lift arm brace to frame using 1/2” x 1 3/4” bolt, bushing, washers and lock nut. For model RC2084 use 1/2” x 3” bolt.

**a. Hitch**

Install bolt, bushing, and lock nut into hole and tighten to specifications. (A) *see photo below*

![Image 318x511 to 597x697]

4. Repeat on opposite brace.
5. Tighten all link and brace hardware (A).

6. For models RC2048, RC2060, and RC2072 attach lift arm brace (A) to frame using 1/2” x 1 3/4” bolt (C), bushing (B), flat washer (E), and lock nut (D). Tighten bolt to specification. For model RC2084 use 1/2” x 3” bolt.

![Image 48x284 to 215x366]

7. Repeat on opposite brace.
8. Tighten all link and brace hardware (A).

**IMPORTANT:** Please do not over tighten hardware.

• **Install Tailwheel Support**
1. If necessary remove tailwheel support from shipping position.
2. Place tailwheel support between brackets on deck.
3. For models RC2048, RC2060, and RC2072 install 1/2” x 4” bolt, washers and lock nut. For model RC2084 Dual Tailwheel install 1/2” x 3” bolt, washers and lock nut. For model RC2084 Single Tailwheel install 1/2” x 2” bolt, washers and lock nut. (A)
4. For models RC2048, RC2060, and RC2072 install 1/2” x 4” bolt, and lock nut (C) into one of seven holes (B) that aligns with hole in wheel support. For model RC2084 Dual Tailwheel use 1/2” x 3” bolt. For model RC2084 Single Tailwheel use 1/2” x 2” bolt. (See Adjusting Cutting Height and Angle in the Operation section.)
5. Tighten hardware.
6. For models RC2084 with dual tailwheels, this will have to be completed on both sides.

![Image 48x499 to 36x721]

**A - Brace**

**B - Bushing**

**C - 1/2” x 1 3/4” bolt**

(RC2048, RC2060, RC2072)

**C - 1/2” x 3” bolt (RC2084)**

**D - Lock Nut**

**E - Washer**

30 Assembly
**ASSEMBLY**

**• Install Tailwheel**
1. If necessary, attach using axle bolt, castle nut, and cotter pin.
2. Tighten hardware.
3. Repeat if using dual wheel assembly on RC2084.

**• Install Driveline**
1. For models RC2048, RC2060 and RC2072 remove snap ring and shear/retaining bolt from gearbox input shaft or PTO shaft.
2. Remove paint from gearbox input shaft.
3. Install slip clutch shield (if equipped).
   a. Open access panel on shield.
   b. For models RC2048, RC2060, and RC2072 attach shield to gearbox using four M8 x 20 **Gr2 bolts** and flat washers. Tighten to specifications. For model RC2084 attach shield to gearbox using four 5/16” x 1/2” **Gr2 hex bolts**.
4. Install driveline. (See REMOVING AND INSTALLING DRIVELINE in Service section.)

**• Fill Gearbox**
IMPORTANT: Cutter is shipped without gearbox lubricant. DO NOT operate the cutter without filling gearbox with specified amount of lubricant listed below, or gearbox will be damaged. (See Lubrication and Maintenance section).

1. Remove breather plug (A) from filler hole.
2. For models RC2048, RC2060 and RC2072 fill gearbox according to initial fill with 32 ounces of EP80W-90 gear oil. For model RC2084 fill gearbox according to initial fill with 35 ounces of EP80W-90 gear oil.

IMPORTANT: Oil will move into lower cavity of gearbox during initial operation. Check oil level after 30 minute break-in period and before every use.

3. After approximately 30 minutes of initial operation, remove check plug (B) and check oil level. Oil should just seep from check plug hole.
4. Add oil if necessary and replace plug (A).

**• Install Front Guard-Chains (If Equipped)**
IMPORTANT: Install hardware with lock nuts and flat washers on the outside of cutter.

1. Install guard using provided carriage bolts, flat washers, and lock nuts. Insert bolts from inside out of rotary cutter. Tighten hardware to specifications in torque chart.
• Install Front Guard-Rubber (If Equipped)

IMPORTANT: Install hardware with lock nuts and flat washers on the outside of cutter.

1. Install guard using two (2) foot guards (See INSTALL FOOT GUARDS in this section) and provided carriage bolts, flat washers, and lock nuts. Insert bolts and flat washer from inside out of rotary cutter.
2. Start with holes closest to center of machine and work towards outside edge of the rotary cutter, inserting carriage bolts and flat washers.
3. For best results, stretch rubber towards outside edge of rotary cutter as lock nuts are tightened.

• Install Foot Guards (If Equipped)

NOTE: Foot guards are also used with rubber front safety shield.

IMPORTANT: Install hardware with lock nuts and flat washers on the outside of cutter.

1. Install guards on each side of machine with long leg toward center of cutter and fasten with the two (2) carriage bolts, flat washers and lock nuts provided per guard. Insert carriage bolts and flat washer from inside out of rotary cutter. Tighten hardware to specifications in torque chart.

• Install Rear Guard-Chains (If Equipped)

IMPORTANT: Install hardware with lock nuts and flat washers on the outside of cutter.

1. Install guard using provided carriage bolts, flat washers, and lock nuts. Insert carriage bolt and flat washer from inside out of rotary cutter. Tighten hardware to specifications in torque chart.

• Install Rear Guard-Metal (If Equipped)

IMPORTANT: Install hardware with lock nuts and flat washers on the outside of cutter.

1. Install guard using provided carriage bolts, flat washers, and lock nuts. Insert carriage bolt and flat washer from inside out of rotary cutter. Tighten hardware to specifications in torque chart.

(Model RC2048, RC2060 & RC2072)

32 Assembly
Final Inspection and Adjustments

IMPORTANT: PTO driveline may be too long for some tractor models, causing tractor transaxle damage. Modify driveline if necessary.

Attach rotary cutter to tractor and check cutter-to-tractor driveline telescoping length clearance. (See CHECKING DRIVELINE/CUTTER CLEARANCE in Attaching section.)

IMPORTANT: Blade hardware MUST be checked after the first hour and every eight (8) hours thereafter.

Check blade hardware torque. Re-tighten hardware after one hour of operation and every eight (8) hours thereafter. (See MAINTENANCE BEFORE EACH USE in Lubrication and Maintenance section.)

---

MODIFY PTO DRIVELINE

• Modify PTO Driveline (If Necessary)

1. To adjust the length, hold the half-shafts next to each other in the shortest working position and mark them.

2. Shorten inner and outer guard tubes equally.

3. Shorten inner and outer sliding profiles by the same length as the guard tubes.

4. Round off all sharp edges and remove burrs. Grease sliding profiles. No other changes may be made to PTO drive shaft and guard.

5. Chains must be fitted so as to allow sufficient articulation of the shaft in all working positions.

6. The PTO drive shaft must not be suspended from the chains!
### TORQUE SPECIFICATIONS

Proper torque for American fasteners used on manufactured implement.

Recommended Torque in Foot Pounds (Newton Meters).

#### AMERICAN

**Bolt Head Markings**

**SAE Grade 2**
- (No Dashes)

**SAE Grade 5**
- (3 Dashes)

**SAE Grade 8**
- (6 Dashes)

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<th>BOLT DIAMETER (IN.)&quot;B&quot; AND THREAD SIZE</th>
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<th>SAE GRADE 5</th>
<th>SAE GRADE 8</th>
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### METRIC

**WRENCH SIZE (mm)"A"**

**BOLT DIA. (mm)"B"**

**ASTM 4.6**

**ASTM 8.8**

**ASTM 9.8**

**ASTM 10.9**

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<tr>
<th>WRENCH SIZE (mm) &quot;A&quot;</th>
<th>BOLT DIA. (mm) &quot;B&quot;</th>
<th>ASTM 4.6</th>
<th>ASTM 8.8</th>
<th>ASTM 9.8</th>
<th>ASTM 10.9</th>
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<td>418 (566)</td>
<td>1119 (1516)</td>
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<td>1547 (2096)</td>
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</table>

Proper torque for metric fasteners used on manufacturer implement.

Recommended Torque in Foot Pounds (Newton Meters).

*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Possible Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaves a streak of uncut or partially cut grass.</td>
<td>1. Rotary cutter not level, side to side.</td>
<td>Level 3-pt. hitch linkage on tractor.</td>
</tr>
<tr>
<td></td>
<td>2. Blade dull or bent.</td>
<td>Sharpen or replace blades.</td>
</tr>
<tr>
<td></td>
<td>3. Blades unable to cut that part of grass pressed by path of tractor</td>
<td>Slow ground speed of tractor but keep engine running at full PTO rpm. Cutting lower will help.</td>
</tr>
<tr>
<td></td>
<td>4. Possible build up of material under rotary cutter.</td>
<td>Clean rotary cutter.</td>
</tr>
<tr>
<td>Blade cuts grass lower in center of swath than at the edge.</td>
<td>1. Height of rotary cutter lower at rear or at front.</td>
<td>Adjust rotary cutter height and altitude so that rotary cutter rear &amp; front are with 1/2” of same height.</td>
</tr>
<tr>
<td>Material discharges from cutter unevenly, or discharges clumps of grass.</td>
<td>1. Grass or brush may be too high or thick.</td>
<td>Reduce ground speed but maintain 540 rpm at tractor PTO, or make two passes over material. Raise rotary cutter for the first pass and lower for the second pass, preferably cutting 90° to the first pass. Raise rear of rotary cutter high enough to permit material to discharge. Allow grass to dry before mowing. Slow ground speed of tractor but keep engine running at full PTO rpm. Cutting lower will help.</td>
</tr>
<tr>
<td></td>
<td>2. Grass wet.</td>
<td></td>
</tr>
<tr>
<td>Gearbox overheating.</td>
<td>1. Low on lubricant.</td>
<td>Fill to proper level.</td>
</tr>
<tr>
<td></td>
<td>2. Improper lubricant type.</td>
<td>Replace with proper lubricant.</td>
</tr>
<tr>
<td></td>
<td>3. Excessive trash build up around gearbox.</td>
<td>Remove trash.</td>
</tr>
<tr>
<td>Rotary cutter will not cut. Rotary cutter will not cut all the time. (slip clutch only)</td>
<td>1. Shear bolt sheared</td>
<td>Install new shear bolt.</td>
</tr>
<tr>
<td></td>
<td>2. Slip clutch slipping.</td>
<td>Adjust slip clutch according to guidelines on page 22.</td>
</tr>
<tr>
<td>Excessive vibration.</td>
<td>1. Possible build up of material on blade</td>
<td>Clean blade pan.</td>
</tr>
<tr>
<td></td>
<td>2. Blades locked into position.</td>
<td>Free blades so they swing free.</td>
</tr>
<tr>
<td></td>
<td>3. Check for even wear on each blade tip.</td>
<td>Weigh each blade. Weight should be with in 1 oz. Always replace both blades.</td>
</tr>
<tr>
<td></td>
<td>5. New blade or bolts not matched with worn blade or bolts.</td>
<td>Replace blades or bolts in sets.</td>
</tr>
<tr>
<td>Gearbox noisy.</td>
<td>1. Low oil in gearbox.</td>
<td>Check oil level. Add oil.</td>
</tr>
</tbody>
</table>
**Parts Overall View**

<table>
<thead>
<tr>
<th>Item Number</th>
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<th>Qty. Shipped</th>
<th>Part Number</th>
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*For complete Safety Decals listing and locations refer to pages 8 and 9.*
### Hitch Assembly

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**Parts 37**
# Gearbox and Blade Pan Assembly

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**38 Parts**
CAUTION
(For models RC2048, RC2060 & RC2072)
Ref. #4 is a Grade 2 shear bolt and is to be used with shear pin driveshaft only.

Ref. #4a is a Grade 8 retaining bolt and is to be used with slip clutch driveshaft only.

Gearbox

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**PTO Driveline Slip Clutch Assembly**  
(For model RC2084)
### Parts

**Tailwheel Assembly**

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**Parts 43**
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44 Parts
# Parts

## Chain Guard Assembly

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(Model RC2048, RC2060 & RC2072)

Any RC2060 manufactured after serial # ending in 14100 will have new style rear chain guards

Any RC2072 manufactured after serial # ending in 16055 will have new style rear chain guards