

SCHULTE®

FX-320/FX-214 ROTARY CUTTER

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S/N C3XXXXXXXX - C3XXXXXXXX inclusive

Part No. C321-010C

OPERATOR'S MANUAL



This Operator's Manual is an integral part of the safe operation of this machine and must be maintained with the unit at all times. **READ, UNDERSTAND, and FOLLOW** the Safety and Operation Instructions contained in this manual before operating the equipment. *C01-Cover_S str*

Important Operating and Safety Instructions are found in the Mower Safety Video that can be instantly accessed on the internet at: www.algqr.com/sve

Safety Video



www.algqr.com/sve



FC-R-0223

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El Manual del Operador Seguridad vídeo    www.algqr.com/sms www.algqr.com/svs	Manuel de l'Opérateur   www.algqr.com/smf

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Manual do Operador   www.algqr.com/smp	Benutzerhandbuch   226-491 www.algqr.com/smg

Safety Video



www.algqr.com/sve

Operator's & Parts Manuals



www.algqr.com/spm

General Safety



www.algqr.com/sme

To the Owner/Operator/Dealer

This Operator's Manual is an integral part of the safe operation of this machine and must be maintained with the implement at all times. A Manual canister is provided on the implement where this manual can be properly stored. If you lose or damage this manual a free replacement manual can be obtained from an authorized *Schulte* dealer or by downloading the manual from the *Schulte* website www.schulte.ca

BEFORE YOU START! READ, UNDERSTAND, and FOLLOW the information provided in this manual, the AEM Mower Safety manual and the tractor operator's manual carefully to learn how to operate and service your machine properly. Failure to do so could result in personal injury to you and bystanders. All implements with moving parts are potentially hazardous. Every effort has been made to ensure that the machine is safe but operators must avoid engaging in unsafe practices and follow the written instructions provided. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

The care you give your *Schulte* Implement will greatly determine your satisfaction with its performance and its service life. Carefully read and follow the instructions in this manual to provide you with a thorough understanding of your new implement and its intended use and service requirements.

All references made in this manual to right, left, front, rear, top or bottom are as viewed facing the direction of forward travel with the implement properly attached to the tractor.

Replacement Parts information is located in a separate Parts Manual. *Schulte* mowers use balanced and matched system components for blade carriers, blades, cuttershafts, knives, knife hangers, rollers, drivetrain components, and bearings. These parts are made and tested to *Schulte* specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce mower performance, void warranties, and present a safety hazard. Use genuine *Schulte* mower parts for economy and safety.

For future reference, record your *Schulte* product model number and serial number.

Dealer		Telephone		Model Number	
Owner		Purchase Date		Serial Number	





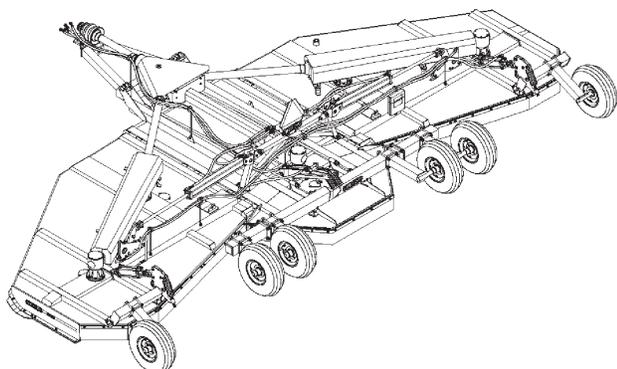
www.algqr.com/sve

➤ **BE SAFE!**

➤ **BE ALERT!**

➤ **BE ALIVE!**

➤ **BE TRAINED
before operating
the Mower!**



SCHULTE[®]

*Safety Training
Makes the Difference*

In order to reduce accidents and enhance the safe operation of mowers, *Schulte*, in cooperation with other industry manufacturers has developed the AEM/FEMA Industrial and Agricultural Mower Safety Practices video and guide book.

The video will familiarize and instruct mower-tractor operators in safe practices when using industrial and agricultural mowing equipment. It is important that Every Mower Operator be educated in the operation of their mowing equipment and be able to recognize the potential hazards that can occur while operating a mower. This video, along with the mower operator's manual and the warning messages on the mower, will significantly assist in this important education.

Your Authorized *Schulte* Dealer may have shown this video and presented you a DVD Video when you purchased your mower. If you or any mower operator have not seen this video, **Watch the Video, Read this Operator's Manual, and Complete the Video Guidebook** before operating your new mower. If you do not understand any of the instructions included in the video or operator's manual or if you have any questions concerning safety of operation, contact your supervisor, dealer or *Schulte*.

If you would like a VHS video tape of the video, please e-mail AEMVideo@alamo-group.com or Fax AEM VHS Video at (830) 372-9529 or mail in a completed copy of the form on the back of this page to AEM VHS Video 1502 E Walnut Street, Seguin, TX 78155. and request the VHS video version. Please include your name, mailing address, mower model and serial number.

Every operator should be trained for each price of equipment (Tractor and Mower), Understand the intended use, and the potential hazards before operating the equipment.

The information and material listed above along with this Operator's Manual can assist you in meeting the OSHA requirement for Operator annual training.

OSHA TRAINING REQUIREMENTS

The following training requirements have been taken from Title 29, Code of Federal Regulations Part 1928.57 (a)(6). www.osha.gov

Operator Instructions. At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee who operates an agricultural tractor or implement in the safe operating practices and servicing of equipment with which they are or will be involved, and of any other practices dictated by the work environment.

Schulte Industries Ltd. will provide one (1) AEM Mower Safety Practices Video

Please Send Me:

- VHS Format – AEM/FEMA Mower Operator Safety Video
- DVD Format – AEM/FEMA Mower Operator Safety Video
- Mower Operator’s Manual
- AEM Mower Operator’s Safety Manual

Requester Name: _____ Phone: _____

Requester Address: _____

City: _____

State: _____

Zip Code: _____

Mower Model: _____ Serial Number: _____

Date Purchased: _____ Dealer Salesperson: _____

Dealership Name: _____ Dealership Location: _____

Mail to:

AEM Video Services
1502 E. Walnut Street
Seguin, TX 78155

Or Fax to:

(830) 372-9529

Or email to:

AEMVideo@alamo-group.com

DEALER to CUSTOMER Pre-Delivery / Operation Instructions

Dealer should inform the Purchaser of this product of Warranty terms, provisions, and procedures that are applicable. Dealer should also inform the Purchaser to review the contents of the Operator's Manual including safety equipment, safe operation and maintenance, to review the Safety Signs on the implement (and tractor if possible) and of Purchaser's responsibility to train his/her operators in safe operation procedures.

- **IMPLEMENTS:** I have explained that Deflectors, Chain Guards, or Solid Skirts must be installed and maintained in good repair
- **DRIVELINES:** I have made certain that all driveline, gearbox, and other shields are in good repair and fastened securely in place to prevent injuries from entanglement or thrown objects.
- **HYDRAULIC MACHINES:** I have explained the necessity of using clean hydraulic oil, changing filters as instructed, stopping leaks, damage caused by operating with over-heated oil, caring for hoses, using hoses of proper rating, maintaining the specified operating pressure and the potential hazard of oil's penetrating the skin.
- **FOLDING-TYPE IMPLEMENTS:** I have explained that it is not possible to guard against thrown objects when the head is lifted off ground and that operator is responsible to watch out for persons in the area. I have explained that the lifted mower head or boom can contact overhead obstructions with damage to cables and telephone lines and possible injury. I have explained that the extended head or boom or retracted boom can contact power lines with resulting electrocution, injury or death and that operator is responsible for keeping clear of such hazards.

PRE-DELIVERY SERVICE

CHECK AND ADJUST OR LUBRICATE AS REQUIRED

See Operator's Manual for Details

Inspection Performed - Warranty and Safety Procedures Explained - Installation Complete

LUBRICATION & HYDRAULICS

- Gearbox (Oil Levels)
- Hydraulic Oil Level (External Tank)
- Tractor Hydraulic Oil Level
- Hydraulic Hoses (Not Kinked Tighten Connections)
- Front Pump Drive (Assembly Is Tight And Shaft Properly Aligned)

MOWER

- Spindle And Motor Bolts Properly Torqued
- Spindle Oil Level
- Blade Carrier Bolts Properly Torqued/Retaining Pin In Place
- Mower Cutting Height And Level Adjusted
- Cutting Shaft Bearings Lubricated
- All Hardware Properly Torqued
- Tire and Air Pressure/Lug Nuts (Correct Torque)
- Wheel Bearings (Check, Grease, and Preload)

ATTACHMENTS & INSTALLATION

- Deflectors Front And Rear
- Shredding Attachments
- Correct Blade Rotation Direction
- Axle Arms And Beams
- Tongue And Control Rods (Installed And Adjusted)
- All Bolts - Pins And Nuts (Proper Torque)

MOWER TO TRACTOR CONNECTIONS

- Draw Bar Length (Check And Set)
- A-Frame Pivot & Links
- Control Rods (Adjusted Equal)
- Axle Height (Adjusted)
- Cutting Height (Adjust)
- Mount Kit - Pre-Operation Check Complete
- Mower Wing (Adjust Level With The Center)
- Mower Wing (Check For Proper Raising Operation)
- C.V. Drivelines (Check Max Turn Radius)

- Pull Type Hitch (Height Adjustment)

- Mounting Hardware Properly Torqued

SAFETY ITEMS

- Protective Shields (Operation And Installation)
- Driveline Clutch (Torque Limiter) (Adjust And Run In)
- Safety Decals (Installed)
- Operator's Manual (Supplied)
- Tractor PTO Shield (Installed)
- S.M.V. Emblem (Installed If Needed)
- Tongue Jack (Installation and Operation)
- Safety Tow Chain (Installed)
- ADMA Driveline Safety Manual Supplied
- AEM Mower Safety Manual (Supplied in Canister)
- AEM Mower Safety Video has been shown to Purchaser

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SAFETY SECTION

Safety Section 1-1

SAFETY

GENERAL SAFETY INSTRUCTIONS AND PRACTICES

A careful operator is the best operator. Safety is of primary importance to the manufacturer and should be to the owner/operator. Most accidents can be avoided by being aware of your equipment, your surroundings, and observing certain precautions. The first section of this manual includes a list of Safety Messages that, if followed, will help protect the operator and bystanders from injury or death. Read and understand these Safety Messages before assembling, operating, or servicing this Implement. This equipment should only be operated by those persons who have read the manual, who are responsible and trained, and who know how to do so responsibly.



The Safety Alert Symbol combined with a Signal Word, as seen below, is used throughout this manual and on decals which are attached to the equipment. The Safety Alert Symbol means: "ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!" The Symbol and Signal Word are intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this equipment.

Practice all usual and customary safe working precautions and above all--remember safety is up to YOU. Only YOU can prevent death or serious injury from unsafe practices.



Indicates a hazardous situation which, if not avoided, WILL result in DEATH OR SERIOUS INJURY.



Indicates a hazardous situation which, if not avoided, COULD result in DEATH OR SERIOUS INJURY.



Indicates a hazardous situation which, if not avoided, COULD result in MINOR OR MODERATE INJURY.



Is used to address practices not related to physical injury.



Safety instruction (or equivalent) signs indicate specific safety-related instructions or procedures.

NOTE: Identifies points of particular interest for more efficient and convenient operation or repair.

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Death or serious injury may occur unless care is taken to follow the warnings and instructions stated in this Manual and in the Safety Messages on the implement. Always follow the instruction in this manual and use good common sense to avoid hazards.



Pictographs are used throughout this manual to help bring your visual attention to safety issues.

SAFETY HAZARD	SAFETY AVOIDANCE	SAFETY PREVENTION
<p>Pictograph surrounded by a triangle indicates a Safety Hazard that must be avoided. Example:</p> <p>Equipment contacting overhead electrical lines</p>	<p>Pictograph in a circle with blue or black background, by itself or inside a box, indicates an avoidance procedure or action that should be followed to prevent injuries. Example:</p> <p>Wear safety footwear. Always shut off engine and remove key before working on equipment.</p>	<p>A circle with a slash through it indicates an action that is prohibited. Example:</p> <p>No Smoking</p>

NOTE: If you want a translation of this safety section in one of the following Languages, please contact: Translations at 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529; Safety Section Translations are available in Spanish, Portuguese, French, German, Russian. GS01str

SAFETY

SAFETY

OPERATOR SAFETY

				
Read and understand Operator's Manual	Always wear Safety Glasses with side shields marked to comply with ANSI Z87	Wear Hard Hat Safety Shoes	Never use Drugs or Alcohol when operating equipment	Wear Safety Vest when operating on or near roads

⚠️ WARNING

TO AVOID DEATH OR SERIOUS INJURY DO THE FOLLOWING:

- **READ, UNDERSTAND** and **FOLLOW** Operator's Manual instructions, Warnings and Safety Messages.
- **WEAR SAFETY GLASSES** with side shields (marked with ANSI Z87), safety shoes, hard hat, hearing protection and gloves when operating or repairing equipment.
- **WEAR** appropriate breathing respirator when operating in dusty conditions to avoid respiratory diseases.
- **DO NOT WEAR** loose clothing or jewelry to avoid rotating parts entanglement injury.
- **DO NOT USE DRUGS** or **ALCOHOL** before or while operating equipment.
- **DO NOT ALLOW** anyone to operate equipment under the influence of drug or alcohol.
- **CONSULT** medical professional for medication impairment side effects.
- **STAY ALERT**, prolonged operation can cause fatigue, **STOP** and **REST**.

GENERAL OPERATING SAFETY

VISIBILITY CONDITIONS WHEN MOWING:

- **OPERATE IN DAYLIGHT** or with lights that give at least 100 yards clear visibility.
- **BE ABLE TO SEE** and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects.

GROUND SPEED WHEN MOWING:

- **NORMAL SPEED** range is between 2 to 5 mph.
- **ADJUST MOWING SPEED** for terrain conditions and grass type, density and cut height.
- **REDUCE MOWING SPEED** when near steep slopes, ditches, drop-offs, overhead obstructions, power lines and to avoid debris and foreign objects.

INSECT INFESTATION

- Do Not operate in areas where bees or insects may attack unless you **WEAR PROTECTIVE CLOTHING** or use enclosed tractor cab.

PTO SPEED:

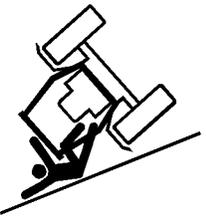
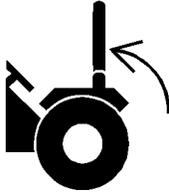
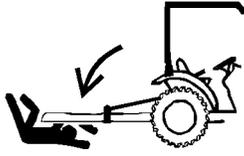
- **DO NOT EXCEED IMPLEMENT RATED PTO SPEED.**
- **AVOID** exceeding rated PTO speeds that may result in broken drivelines or blade failures.

SAFETY SIGNS:

- **REPLACE** missing, damaged or unreadable safety signs immediately. *PN OS01 str*

SAFETY

CRUSHING HAZARDS

				
Crushing injury from roll over	Lock ROPS in up position	Always wear seatbelt	Crushing injury implement falling	Crushing injury wing falling

⚠ DANGER

TO AVOID DEATH OR SERIOUS INJURY FROM FALLING OFF TRACTOR, EQUIPMENT RUN OVER, ROLLOVER AND CRUSHING BY FALLING WING OR IMPLEMENT:

- **USE ROPS** and **SEAT BELT** equipped tractors for mowing operations.
- **KEEP ROPS** lock in up position.
- **ALWAYS BUCKLE UP** seat belt when operating tractor and equipment.
- **ONLY OPERATE** tractor and equipment while seated in tractor seat.
- **IN CASE OF EMERGENCY**, shut down tractor engine, disengage the PTO and wait for all rotating motion to stop. Place the tractor in park position, engage the parking brake and remove the key before leaving the operator's seat.

WHEN RAISING OR LOWERING IMPLEMENT:

- Raise or lower **ONLY WHILE SEATED** in tractor seat with seat belt buckled.
- Raise or lower **ONLY** when implement tongue is securely attached to tractor drawbar **TO AVOID** implement tip over.
- **KEEP BYSTANDERS CLEAR** of area **TO AVOID** crushing.

LIFTED Equipment can fall from mechanical or hydraulic failure or inadvertent Control Lever movement.

⚠ WARNING

TO AVOID EQUIPMENT FALLING while working near or under lifted wings, components and implements raised by 3-Pointed tractor hitch:

- **SECURELY SUPPORT** or block up raised equipment and components.
- **BLOCK UP** and **securely support equipment before putting hands, feet or body under raised equipment or lifted components.**
- **KEEP BYSTANDERS CLEAR** of folded wings until wings are blocked or locked up.

WHEN PARKING Implement and Tractor:

- **LOWER** implement, **LOCK** or **BLOCK** lifted parts before leaving equipment.
- **NEVER** leave implement unattended in a raised position.

⚠ WARNING

TO AVOID CHILDREN FALLING OFF OR BEING CRUSHED BY EQUIPMENT:

- **NEVER ALLOW** children to play on or around Tractor or Implement.

WHEN UNHITCHING IMPLEMENT:

- **LOWER** implement, **LOCK** or **BLOCK** lifted parts before leaving equipment.
- **USE** tongue jack to control implement tongue movement.
- **USE** tongue **JACK** to lift heavy implement tongues.
- **AVOID** overloading jack to prevent jack failure and injury. *(Refer to Instructions in Operation Section)*

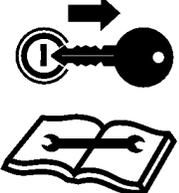
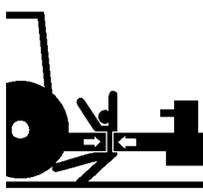
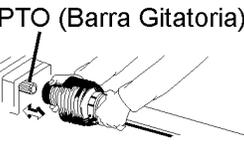
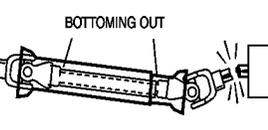
BEFORE REMOVING Wing Retaining Lock:

- **ATTACH** hoses to tractor.
- **FILL** Wing Cylinders with oil. *(Refer to Instructions in Operation Section)*
- **KEEP** bystanders away before operating wings.
- **KEEP** bystanders away before operating wings.
- **LOWER WINGS** slowly and carefully. *PN CH01 str*

SAFETY

SAFETY

CONNECTING OR DISCONNECTING IMPLEMENT SAFETY

				
<p>Stop Tractor Remove Key Read Manual</p>	<p>Crushing injury between tractor and implement</p>	<p>Crushing injury wing falling</p>	<p>Make sure PTO shaft is securely attached to tractor</p>	<p>Make sure PTO shaft are proper length</p>



TO AVOID DEATH OR SERIOUS INJURY FROM BEING CRUSHED BY TRACTOR OR IMPLEMENT:

WHEN BACKING tractor to implement hitch:

- **DO NOT ALLOW BYSTANDERS** between tractor and implement.

BEFORE connecting and disconnecting implement hitch:

- **STOP TRACTOR ENGINE**, place transmission into park, engage parking brake and remove key.

WHEN connecting and disconnecting implement hitch:

- **DO NOT** crawl or walk under raised mower or wing.
- **USE** tongue **JACK** to lift heavy implement tongues to control implement tongue movement.
- **AVOID** overloading jack to prevent jack failure and injury.

WHEN CONNECTING IMPLEMENT DRIVELINE:

TO AVOID implement driveline coming loose during operation:

- **LUBRICATE** yoke spring locking collar to ensure it freely slides on PTO shaft.
- **SECURELY** seat yoke locking balls in PTO shaft groove.
- **PUSH** and **PULL DRIVELINE** on both the tractor and implement **PTO SHAFTS** to ensure it is **SECURELY ATTACHED**.

TO AVOID broken driveline during operations:

- **CHECK** driveline for proper length between PTO shaft and implement gearbox shaft.
- Drivelines too short can pull apart or disengage.
- Drivelines too long can bottom out.
- Bottoming driveline telescoping assembly will stop sliding and become solid.
- Driveline bottoming can push through support bearings and break off PTO shaft.

CONTACT DEALER if implement driveline does not match Tractor PTO shaft:

- **DO NOT USE PTO ADAPTER.**
Using a PTO adapter can cause:
 - Excessive vibration, thrown objects, blade and implement failures by doubling operating speed.
 - Increased working length exposing unshielded driveline areas and entanglement hazards.

BEFORE REMOVING WING RETAINING LOCKS:

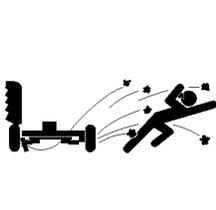
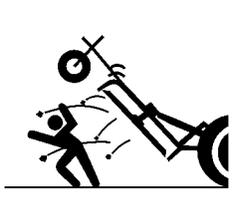
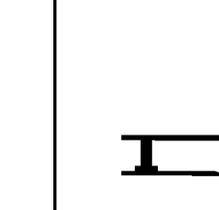
- **ATTACH** hoses to tractor.
- **FILL** Wing Cylinders with oil. (*Refer to Instructions in Operation Section*)
- **KEEP** bystanders clear of area before operating wings.
- **LOWER WINGS** slowly and carefully.

DO NOT connect the Mower to a tractor with the PTO directly connected to the Tractor transmission.

PN CD01 str

SAFETY

THROWN OBJECTS HAZARDS

				
Mower Thrown Objects Hazard	Raised Mower Thrown Objects	Raised Mower Thrown Objects	Inspect Area remove foreign objects	Do not let blades contact solid objects

⚠ DANGER ROTARY MOWERS CAN THROW OBJECTS 300 FEET OR MORE UNDER ADVERSE CONDITIONS.

TO AVOID DEATH OR SERIOUS INJURY TO OPERATOR OR BYSTANDERS FROM THROWN OBJECTS:

- KEEP bystanders 300 feet away.

STOP MOWING IF PASSERSBY ARE WITHIN 300 FEET UNLESS:

- **All THROWN OBJECT SHIELDING** including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- Mower sections or wing are adjusted to be close and parallel to ground without exposing blades.
- **MOWING AREA** has been inspected and foreign materials and debris have been removed.
- **PASSERSBY** are inside enclosed vehicle.

INSPECT AREA FOR POTENTIAL THROWN OBJECTS BEFORE MOWING:

- **REMOVE** debris, rocks, wire, cable, metal objects and other foreign material from area.
Wire, cable, rope, chains and metal objects can be thrown or swing outside deck with great velocity:
DO NOT allow the mower blades to contact decaying animal carcasses or other hazardous materials. The mower blades could throw hazardous and biologic material out from under mower exposing the operator and bystanders to health risks. Always wear required OSHA approved Personal Protective Equipment (PPE) when cleaning or removing potentially hazardous material from equipment.
 1. **MARK** objects that cannot be removed.
 2. **AVOID** these objects when mowing.

HIGH GRASS and WEED AREA INSPECTION:

- **INSPECT** for and **REMOVE** any hidden large debris.
- **MOW** at Intermediate height.
- **INSPECT** and remove remaining debris.
- **MOW** at final height.

MOWER THROWN OBJECT SHIELDING:

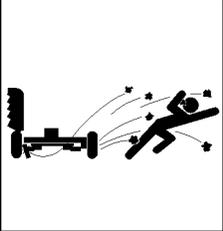
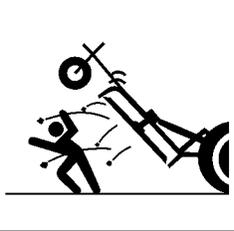
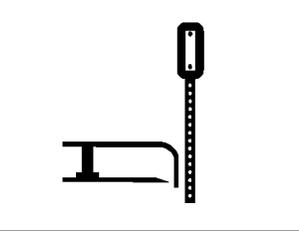
- **KEEP** all thrown object shielding including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- **DO NOT OPERATE** with any thrown object shielding missing, damaged or removed.

RIGHT OF WAY (Highway) MOWING

- **USE DOUBLE CHAIN GUARDS** for highway, right-of-way, parks or greenbelt mowing or all other mowing where human dwellings, vehicles, or livestock could be within 300 feet of the mower.
- No shielding is 100% effective in preventing thrown objects. To Reduce Possibility of Injury:
 1. **MAINTAIN MOWER SHIELDING**, side skirts, skid shoes, and blades in good operational condition,
 2. **RAISE CUTTING HEIGHT to 6 INCHES** minimum,
 3. **INSPECT AREA** thoroughly before mowing to **REMOVE** potential **THROWN OBJECT HAZARDS**,
 4. **NEVER ALLOW BLADES to CONTACT SOLID OBJECTS** like wire, rocks, post, curbs, guardrails, or ground while mowing. *PN TO01 str*

SAFETY

THROWN OBJECT HAZARDS (CONT.)

				
Mower Thrown Objects Hazard	Raised Mower Thrown Objects	Raised Mower Thrown Objects	Inspect Area remove foreign objects	Do not let blades contact solid objects

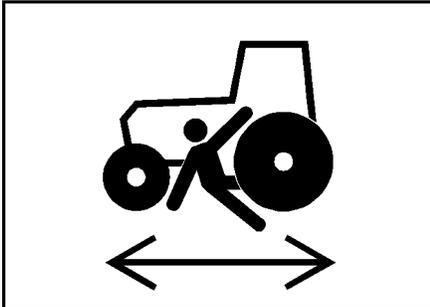
MOWER OPERATION:

- **DO NOT** exceed mower's rated Cutting Capacity or cut non-vegetative material.
- **USE ENCLOSED TRACTOR CABS** when two or more mowers are operating in mowing area.
- Do Not mow in areas where bees or insects may attack unless you **WEAR PROTECTIVE CLOTHING** or use enclosed tractor cab.
- **ADJUST** mower sections or wing close and parallel to ground without exposing blades.
- **ADJUST** cutting **HEIGHT** to **AVOID BLADE CONTACT** with solid objects like wire, rocks, posts, curbs, guardrails and fixed obstructions.
- **DO NOT** operate mower when mower wing(s) is raised or in transport position.
- **STOP MOWING** immediately if blades strike heavy objects, fixed structures, metal guard rails and concrete structures. Shut down tractor engine, disengage the PTO and wait for all rotating motion to stop. Place the tractor in park position, engage the parking brake and remove the key before leaving the operator's seat:
 1. **BLADES CAN FAIL** from impact and objects can be thrown with great velocity.
 2. **INSPECT** and **REPLACE** any damaged blades.
 3. **CHECK** blade carrier and **REPLACE** if damaged.
- **DO NOT** mow in standing water **TO AVOID** possible **BLADE FAILURE**.
- **AVOID MOWING** in reverse:
 1. **STOP PTO** and back up mower.
 2. **LOWER** mower, engage **PTO** and mow forward.
- **STOP PTO** and **BLADES** when raising wings or the mower to transport position.
- **DO NOT ENGAGE PTO** with mower in transport position.
- **STOP** mowing when **EXCESSIVE VIBRATION** occurs:
 1. **STOP PTO** and tractor **ENGINE**.
 2. **INSPECT** mower for vibration source.
 3. **REPLACE** any damaged parts and bent or damaged **BLADES**. *PN TO01-X*

SAFETY

SAFETY

RUN OVER HAZARDS



Operator run over hazard



Rider fall off run over hazard



Rider fall off run over hazard



TO AVOID DEATH OR SERIOUS INJURY FROM FALLING OFF TRACTOR OR EQUIPMENT RUN OVER:

- **USE ROPS** and **SEAT BELT** equipped tractors for mowing operations.
- **KEEP ROPS** locked in **UP** position.
- **ONLY start tractor while seated in tractor seat.**
- **ALWAYS BUCKLE UP** seat belt when operating tractor and equipment.
- **ONLY OPERATE** tractor and equipment while seated in tractor seat.
- **NEVER ALLOW RIDERS** on tractor or implement.

WHEN MOUNTING AND DISMOUNTING TRACTOR:

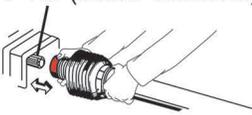
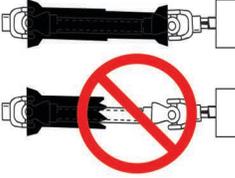
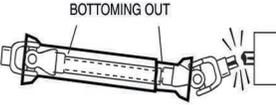
- **ONLY mount or dismount when tractor and moving parts are stopped.**
- **STOP ENGINE AND PTO**, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from tractor. *PN RO01 str*

SAFETY

SAFETY

SAFETY

PTO ENTANGLEMENT HAZARDS

	 <p>PTO (Barra Gitoria)</p>		 <p>BOTTOMING OUT</p>
<p>Entanglement hazard Do Not approach or touch a rotating PTO driveshaft</p>	<p>Make sure PTO shaft is securely attached Do Not Use PTO Adapter</p>	<p>DO NOT Operate if PTO shields are damaged or missing</p>	<p>Make sure PTO shafts are proper length</p>



DANGER

KEEP AWAY FROM ROTATING DRIVELINES AND ELEMENTS TO AVOID DEATH OR SERIOUS INJURY:

STAY AWAY and **KEEP** hands, feet and body **AWAY** from rotating blades, drivelines and parts until all moving elements have stopped.

- **STOP, LOOK and LISTEN** before approaching the mower to make sure all rotating motion has stopped.
- **ROTATING COMPONENTS CONTINUE to ROTATE** after the PTO is shut off.

PTO SHIELDING:

TO AVOID SERIOUS INJURY OR DEATH FROM ENTANGLEMENT WHEN OPERATING IMPLEMENT:

- **KEEP PTO** shields, integral driveline shields and input shields installed.
- **DO NOT OPERATE** mower without shields and guards in place or missing.
- **REPAIR OR REPLACE** if damage, broken or missing.
- **ALWAYS REPLACE GUARDS** that have been removed for service or maintenance.
- Do Not use PTO or PTO guard as a step.

TO AVOID broken driveline during operations:

- **CHECK** driveline for proper length between PTO shaft and implement gearbox shaft. (Refer to Instructions in Operation Section)
- Drivelines too short can pull apart or disengage.
- Drivelines too long can bottom out.
- Bottoming driveline telescoping assembly will stop sliding and become solid.
- Driveline bottoming can push through support bearings and break off PTO shaft.
- **AVOID** sharp turns or lift mower to heights to cause driveline "knocking".
- Lubricate driveshaft-telescoping components weekly.

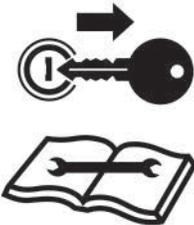
CONTACT DEALER if implement driveline does not match Tractor PTO shaft:

- **DO NOT USE PTO ADAPTER.**

Using a PTO adapter can cause excessive vibration, thrown objects, blade and implement failures by doubling operating speed. Increased working length exposing unshielded driveline areas. *PN PE01str*

SAFETY

MOWER BLADE CONTACT HAZARDS

		
Do not put fingers underneath mower	Do not put foot underneath Mower	Stop Tractor Remove Key Read Manual



DANGER

KEEP AWAY FROM ROTATING BLADES TO AVOID DEATH OR SERIOUS INJURY FROM BLADE CONTACT:

- **STAY AWAY** and **KEEP HANDS, FEET** and **BODY AWAY** from rotating blades, drivelines and parts until all moving elements have stopped.
- **DO NOT** put hands or feet under mower decks.
- **STOP** rotating **BLADES** disengage PTO and wait for blade to stop rotating before raising mower deck or wings.
- **STOP LOOK** and **LISTEN** before approaching the mower to make sure all rotating motion has stopped.
- IF A MATERIAL BLOCKAGE occurs in the inlet or discharge areas of the mower, SHUT DOWN TRACTOR ENGINE, disengage the PTO and wait for all rotating motion to stop. Place the tractor in park position, engage the parking brake and remove the key before leaving the operator's set. Clear the blockage before proceeding with mowing. Be sure to keep feet and hands clear of the mower blades. If you raise the mower or mower wing to access the blockage, engage the wing lock up latch and securely block up the mower before placing any parts of the body beneath the mower.
PN MB01str

SAFETY

SAFETY

HIGH PRESSURE OIL LEAK HAZARDS



High pressure oil penetrating skin



High pressure oil eroding skin



Using cardboard to check for oil leaks

⚠ DANGER

TO AVOID DEATH OR SERIOUS INJURY FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENETRATING SKIN:

- **DO NOT OPERATE** equipment with oil or fuel leaks.
- **KEEP** all hydraulic hoses, lines and connections in **GOOD CONDITION** and **TIGHT** before applying system pressure.
- **RELIEVE HYDRAULIC PRESSURE** before disconnecting lines or working on the system.
- **REMOVE** and replace hose if you suspect it leaks. Have dealer test it for leaks.

HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE.

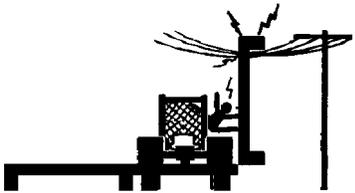
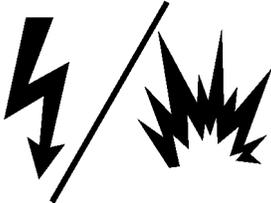
WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:

- **ALWAYS WEAR** safety glasses with side shields (marked with ANSI Z87) and impenetrable gloves.
- **USE** paper or cardboard to search for leaks.
- **DO NOT USE** hands or body parts to search for leak.
- **KEEP** hands and body **AWAY** from pin holes and nozzles ejecting hydraulic fluid.
- Injected Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury. *PN HP01str*

SAFETY

SAFETY

ELECTRICAL FIRE HAZARDS

		
<p>Wing contacting overhead electrical lines</p>	<p>Strike and explosion Hazard Blades Contacting Utility or Gas Lines</p>	<p>Do not operate near fires. Keep mower deck clear of debris</p>

⚠ DANGER TO AVOID DEATH OR SERIOUS INJURY FROM ELECTRICAL CONTACT WHEN WORKING AROUND ELECTRICAL POWER LINES, GAS LINES AND UTILITY LINES:

- **INSPECT** mowing area for overhead or underground electrical power lines, obstructions, gas lines, cables and Utility, Municipal, or other type structure.
- **KEEP** all raised wings at a 10 feet or greater distance from all power lines and overhead obstructions.
- **DO NOT** allow mower to contact with any Utility, Municipal, or type of structures and obstructions.
- **CALL 811** and 1-800-258-0808 for identify buried utility lines.

FIRE PREVENTION GUIDELINES while Operating, Servicing, and Repairing Mower and Tractor to reduce equipment and grass fire Risk:

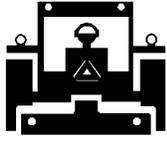
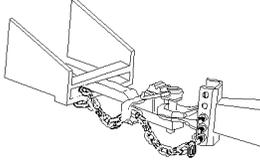
- **EQUIP** Tractor with a **FIRE EXTINGUISHER**.
- **DO NOT OPERATE** mower on a tractor equipped with under frame exhaust.
- **DO NOT SMOKE** or have open flame near Mower or Tractor.
- **DO NOT DRIVE** into burning debris or freshly burnt area.
- **AVOID FIRE IGNITION** by not allowing mower blade to contact solid objects like metal or rock.
- **ADJUST SLIP CLUTCHES** to avoid excessive slippage and clutch plate heating.
- **CLEAR** any grass clippings or debris buildup around mower drivelines, slip clutches, and gearboxes.
- **SHUT OFF ENGINE** while refueling. *PN EF01 str*

SAFETY

SAFETY

SAFETY

TRANSPORTING HAZARDS

				
Use SMV signs and Flashing Lights	Loss of Control Stopping Hazard	Loss of Control Speeding Hazard	Use Safety Tow Chain - Tractor to Implement	Engage Transport Locks



TO AVOID DEATH OR SERIOUS INJURY WHEN TOWING OR TRANSPORTING EQUIPMENT:

- **KEEP** transport speed **BELOW** 20 mph to maintain control of equipment.
- **REDUCE SPEED** on inclines, on turns and in poor towing conditions.
- **DO NOT TOW** with trucks or other vehicles.
- **ENSURE mass of towing vehicle is at least 2/3 times the mass of the towed machinery.**
- **FOLLOW** all local traffic regulations.

TRACTOR REQUIREMENTS FOR TOWING OR TRANSPORTING IMPLEMENTS:

- **ONLY TRANSPORT** with tractor, with **ROPS** in the raised position.
- **USE** properly sized and equipped tractor that exceeds implement weight by at least 20%
- **KEEP** 20% of tractor weight on front wheels to maintain safe steering.

BEFORE TRANSPORTING OR TOWING IMPLEMENT:

TRACTOR INSPECTION:

- **CHECK** steering and braking for proper operation and in good condition.
- **CHECK SMV** sign, reflectors and warning lights for proper operation and visibility behind unit.
- **CHECK** that your driving vision is not impaired by tractor, cab, or implement while seated in tractor seat.
- **ADJUST** operating position, mirrors, and implement transport for clear vision for traveling and traffic conditions.

PREPARE IMPLEMENT FOR TRANSPORTING OR TOWING:

ENGAGE TRANSPORT LOCKS AND SAFETY CHAINS:

- **RAISE MOWER** and **ENGAGE** center axle cylinder transport stops or pins.
- **RAISE WINGS** and **ENGAGE TRANSPORT LOCKS** or pins.
- **ATTACH** implement **SAFETY CHAIN** to tractor.
- **REMOVE** any cut material collected on mower deck.

TOWED MOWERS - ENGAGE TRANSPORT LOCKS AND SAFETY CHAINS:

- **INSTALL** center axle cylinder transport stops or pins.
- **ATTACH** implement **SAFETY CHAIN** to tractor.
- **REMOVE** any cut material collected on mower deck.

DETERMINE STOPPING CHARACTERISTICS OF TRACTOR AND IMPLEMENT FOR TRANSPORTING OR TOWING:

BRAKING TESTS:

- **INSTALL** center axle cylinder transport stops or pins.
- Observe **STOPPING** distances increases with increased speeds.
- **DETERMINE** the maximum safe transport speed that does not exceed 20 mph.

DETERMINE MAXIMUM TURNING SPEED BEFORE OPERATING ON ROADS OR UNEVEN GROUND:

- **TEST** equipment in slowly increasing speed in turns to determine it can be operated at higher speeds.
- **USE REDUCED** turning speeds in sharp turns to avoid equipment turning over.

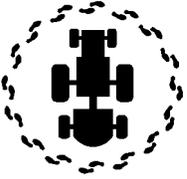
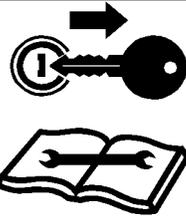
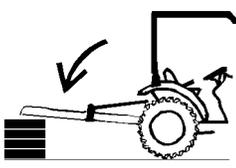
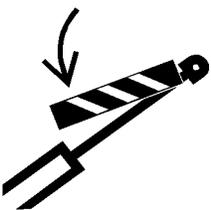
WHEN TOWING OR TRANSPORTING EQUIPMENT:

- Always **WEAR SEAT BELT** when operating or transporting mower.
- **USE** low speeds to avoid overturn with raised wings.
- **USE** low speeds and gradual steering on curves, hills, rough or uneven surfaces and on wet roads.
- **TURN ON** tractor **FLASHING WARNING LIGHTS**.
- **ALLOW** clearance for implement swing while turning.

KEEP all raised wings at 10 feet or greater distance from all power lines and overhead obstructions. *PN TH01 str*

SAFETY

HAZARDS WITH MAINTENANCE OF IMPLEMENT

				
Periodically inspect all moving parts, lubricate drivelines, and tighten all fasteners	Stop engine remove key before conducting maintenance	Block up implement before servicing Use large blocks on soft or wet soil	Engage cylinder transport locks	Inspect Blades for damage or cracks

⚠ WARNING AVOID DEATH OR SERIOUS INJURY FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION IN PERFORMING PROPER SERVICE, REPAIRS AND MAINTENANCE.

BEFORE PERFORMING SERVICE, REPAIRS AND MAINTENANCE ON THE IMPLEMENT:

SECURE EQUIPMENT FOR SERVICE

BLOCK OUT POTENTIAL ENERGY HAZARDS; Rotating Parts, Raised Components, Hydraulic Pressure.

- **STOP ENGINE and PTO, engage parking brake and allow all moving parts to stop and remove key before dismounting from tractor seat.**
- **PLACE** implement on ground or securely block up raised equipment. Use large blocks on soft or wet soil.
- **SECURELY LATCH and LOCK** raised implement wings.
- **BLOCK UP IMPLEMENT TONGUE** with large blocks and tongue jack. **DO NOT** crawl or work under implement supported only by tongue jack.
- Be sure to park on level ground to a maximum of 10% ground slope.
- **PUSH and PULL** Remote Hydraulic Cylinder lever to relieve hydraulic pressure.
- **DISCONNECT IMPLEMENT Hydraulic HOSES from tractor.**
- **DISCONNECT IMPLEMENT driveline** from tractor PTO Shaft.

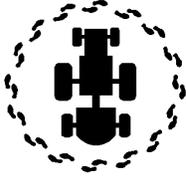
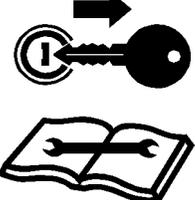
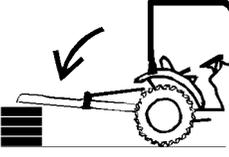
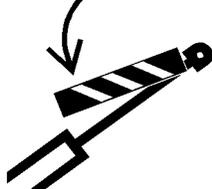
WEAR SAFETY GLASSES, PROTECTIVE GLOVES and follow **SAFETY PROCEDURES** when performing service, repairs and maintenance on the implement:

- Always **WEAR** protective **GLOVES** when handling chemicals or worn component with sharp edges.
- Always **WEAR GLOVES** and **SAFETY GLASSES** when servicing components
- **AVOID CONTACT** with hot hydraulic oil tanks, pumps, motors, valves and hose connection surfaces.
- **SECURELY** support or **BLOCK UP** raised implement, framework and lifted components before working underneath equipment.
- **STOP** any implement movements and **SHUT-OFF TRACTOR** engine before doing any work procedures.
- **USE** ladder or raised stands to reach high equipment areas inaccessible from ground.
- **ENSURE** good footing by standing on solid flat surfaces when getting on implement to perform work.
- **FOLLOW** manufacturer's instructions in handling oils, solvents, cleansers, and other chemical agents.
- **DO NOT** change any factory-set hydraulic calibrations to avoid component or equipment failures.
- **DO NOT** modify or alter implement, functions or components.
- **DO NOT WELD** or repair rotating mower components. These may cause vibrations and component failures being thrown from mower. *PN HM02 str*

SAFETY

SAFETY

HAZARDS WITH MAINTENANCE OF IMPLEMENT (CONTINUED)

				
<p>Periodically inspect all moving parts, lubricate drivelines, and tighten all fasteners</p>	<p>Stop engine remove key before conducting maintenance</p>	<p>Block up implement before servicing Use large blocks on soft or wet soil</p>	<p>Engage cylinder transport locks</p>	<p>Inspect Blades for damage or cracks</p>



AVOID DEATH OR SERIOUS INJURY FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION IN PERFORMING PROPER SERVICE, REPAIRS AND MAINTENANCE.

PERFORM SERVICE, REPAIRS, LUBRICATION AND MAINTENANCE OUTLINED IN IMPLEMENT MAINTENANCE SECTION:

- **INSPECT** for loose fasteners, worn or broken parts, leaky or loose fittings, missing or broken cotter keys and washers on pins, and all moving parts for wear.
- **REPLACE** any worn or broken parts with authorized service parts.
- **LUBRICATE** unit as specified by lubrication schedule.
- **NEVER** lubricate, adjust or remove material while it is running or in motion.
- **TORQUE** all bolts and nuts as specified.

BLADE INSPECTION:

- **REPLACE** bent, damage, cracked or broken blades immediately with new blades.
- **AVOID** blade failures and thrown broken blades. **DO NOT** straighten, weld, or weld hard-facing blades.

SAFETY SHIELDS, GUARDS AND SAFETY DEVICES INSPECTION:

- **KEEP** all Deflectors, Chain Guards, Steel Guards, Gearbox Shields, and PTO integral shields, Bands, Side Skirts and Skid Shoes in place and in good condition.
- **REPLACE** any missing, broken or worn safety shields, guards and safety devices.



WARNING

Cancer and Reproductive Harm www.P65Warnings.ca.gov PN HM02-A

SAFETY

PARTS INFORMATION

Schulte Products use balanced and matched system components for blade carriers, blades, cuttershafts, knives, knife hangers, rollers, drivetrain components, and bearings. These parts are made and tested to Schulte Industry specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce the performance, void Schulte warranties, and present a safety hazard. Use genuine Schulte parts for economy and safety. (SPSI-1) str

SEE YOUR SCHULTE DEALER

Operator's & Parts Manuals



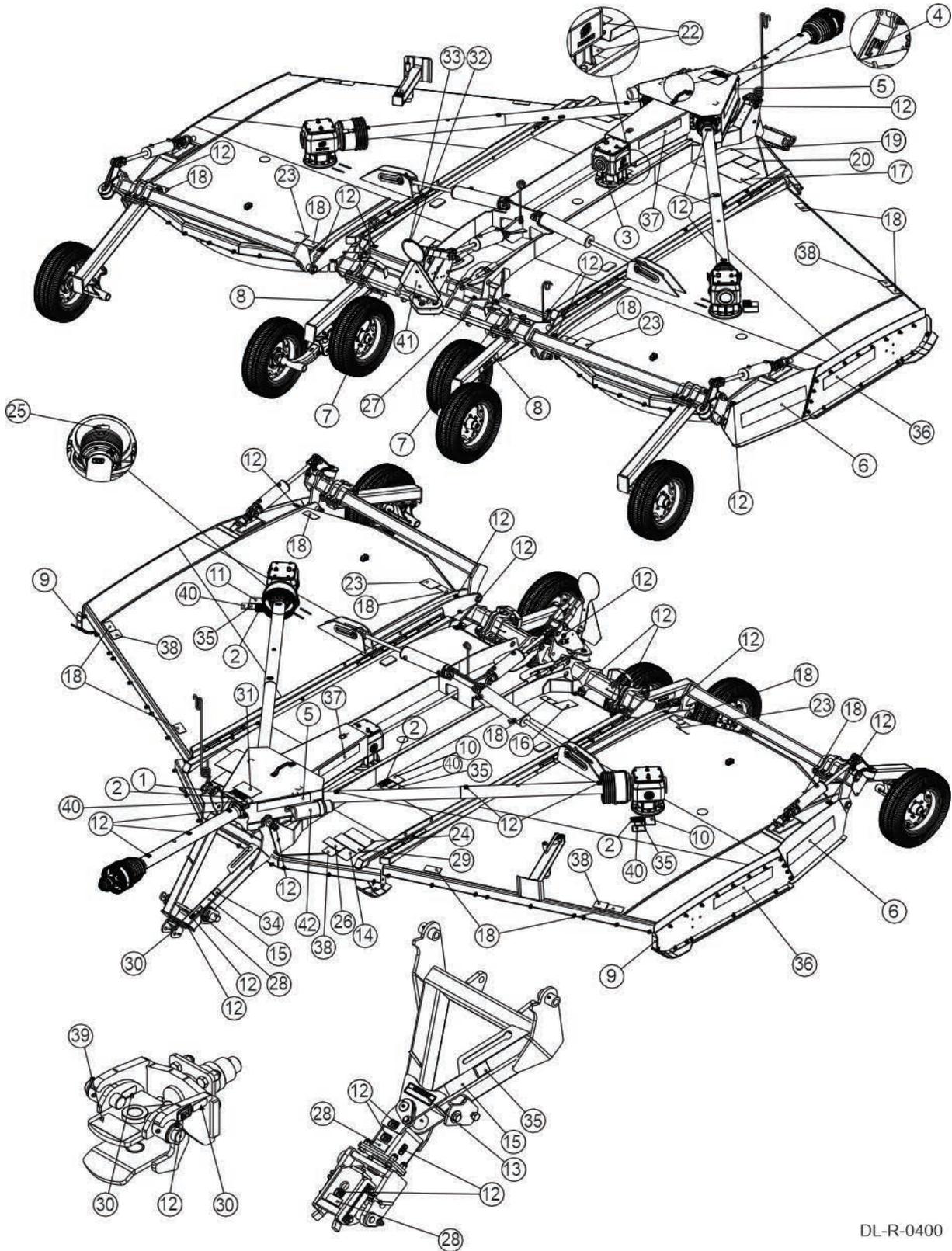
www.algqr.com/spm

SAFETY

DECAL LOCATION

NOTE: Schulte supplies safety decals on this product to promote safe operation. Damage to the decals may occur while in shipping, use, or reconditioning. Schulte cares about the safety of its customers, operators, and bystanders, and will replace the safety decals on this product in the field, free of charge. Contact your Schulte dealer to order replacement decal.

SAFETY



SAFETY

DL-R-0400

SAFETY

SAFETY

ITEM	PART NO.	QTY 20'	QTY 13'	TYPE	DESCRIPTION
1.	226-004	1	1	LOGO	FEMA Member
2.	226-081	4	3	IMPORTANT	Check Oil Level
3.	226-088	1*	1*	INFORMATION	1000 RPM
4.	226-100	1	1	SERIAL PLT	Serial Number Plate
5.	226-117	2	2	LOGO	Schulte Logo, Medium Profile
6.	226-118	2	2	LOGO	Schulte Logo, Large Profile
7.	226-153	2	2	REFLECT	RED Reflector 2" x 9"
8.	226-154	2	2	REFLECT	Amber Reflector 2" x 9"
9.	226-1541	2	1	REFLECT	Amber Reflector 2" x 4-1/2"
10.	226-164	2	1	WARNING	Blade Rotation CW
11.	226-165	1	1	WARNING	Blade Rotation CCW
12.	226-181	17	17	INSTRUCT	8 HR Greasing
13.	226-268	1	1	IMPORTANT	Non CV Driveline
14.	226-363	1	1	INSTRUCT	Bondioli Driveline Greasing
15.	226-428	2	2	WARNING	Jack, 3000 lbs
16.	226-433	1	1	INSTRUCT	Lock Up Instructions
17.	226-436	1	1	DANGER	Multi-Hazard
18.	226-437	9	9	DANGER	Chain Guard Missing
19.	226-438	1	1	DANGER	Trailing Unit - Multi-Hazard
20.	226-440	1**	1**	DANGER	Multi-Hazard, 540 RPM
21.	226-441	1**	1**	DANGER	Multi-Hazard, 1000 RPM
22.	226-442	2	2	DANGER	Guard Missing
23.	226-443	2	2	DANGER	Crushing Hazard - Raising Wings
24.	226-444	1	1	WARNING	Use Genuine Schulte Parts
25.	226-446	2	2	DANGER	Driveline Guard Missing
26.	226-447	1	1	IMPORTANT	Shear Bolt Decal
27.	226-448	1	1	IMPORTANT	Stability Decal
28.	226-459	3	1	INSTRUCT	Grease Fitting
29.	226-491	1	1	DANGER	Multi-Language
30.	226-499	2	2	INSTRUCT	This Side Up
31.	226-534	1	1	WARRANTY	6-Year Gearbox Warranty
32.	226-628	1	1	INSTRUCT	20 MPH Speed
33.	226-630	1	1	INSTRUCT	30 KMPH Speed
34.	226-659	2	2	NOTICE	Park on level ground - Max 10% ground slope
35.	226-712	3	2	IMPORTANT	Re-Torque Gearbox Bolts
36.	226-713	2	2	LOGO	FX-320 Logo
37.	226-714	2	2	LOGO	FX-320, Splitter Logo

FX-320/FX-214 05-25

Safety Section 1-18

SAFETY

ITEM	PART NO.	QTY 20'	QTY 13'	TYPE	DESCRIPTION
38.	226-716	3	3	WARNING	Thrown Object Hazard
39.	226-719	1	1	NOTICE	Connect Pro Level Clevis
40.	226-722	4	3	NOTICE	Replace Oil after 50 Hours
41.	226-013	1	1	REFLECT	SMV Sign
42.	280-201	1	1	INSTRUCT	Manual Canister
	C321-010C	1	-	---	FX-320 Operator's Manual
	C321-010C	-	1	---	FX-214 Operator's Manual

NOTE: * Decal 226-088 ONLY on 1000 RPM Machines ** Replace Decal 226-440 with 226-441 on 1000 RPM Machines

SAFETY

SAFETY

SAFETY

DECAL DESCRIPTION

WARNING

TO AVOID DEATH OR SERIOUS INJURY FROM BLADE ATTACHMENT FAILURE:

- Torque blade bolt to 600 ft lbs.
- ALWAYS replace blades in pairs.
- ALWAYS replace blades with new bolts and nuts.

226-164

BLADE ROTATION

WARNING

TO AVOID DEATH OR SERIOUS INJURY FROM BLADE ATTACHMENT FAILURE:

- Torque blade bolt to 600 ft lbs.
- ALWAYS replace blades in pairs.
- ALWAYS replace blades with new bolts and nuts.

226-165

BLADE ROTATION

WARNING

226-428

Rated Loads	Vertical:	3000 lbs
	Side:	800 lbs

TO AVOID SERIOUS INJURY:

- Fully engage jack retaining pin.
- Adjust jack vertically.
- Torque positioning nut to 250 ft-lbs.
- DO NOT exceed rated loads.

DANGER

226-442

GUARD MISSING
To Avoid Death Or Serious Injury Do Not Operate

SAFETY

IMPORTANT

CHECK OIL LEVEL
IN ALL GEARBOXES
BEFORE OPERATION

226-081

IMPORTANT

DO NOT operate this machine
with a Constant Velocity (CV)
driveline.

226-268



WARNING



THROWN OBJECT HAZARD

Fixed Knife Technology is only
intended for cutting crop residue
and similar dry materials.

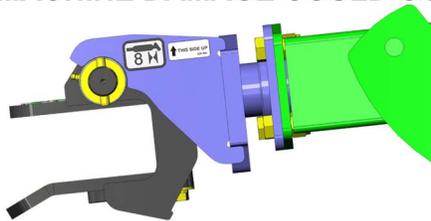
Always remove all fixed knives
when mowing in heavy, damp, or
green vegetation.

This type of green vegetation can
accumulate on the fixed knives and
damage the rotary mower blades,
which can result in death or serious
injury.

226-716

NOTICE

CONNECT PRO LEVEL CLEVIS TO TRACTOR
IN CORRECT ORIENTATION SHOWN BELOW
OR MACHINE DAMAGE COULD OCCUR



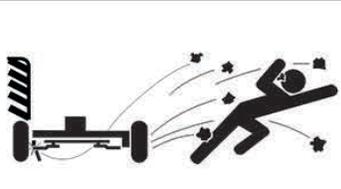
226-719

SAFETY

SAFETY

SAFETY

! DANGER

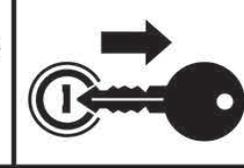


THROWN OBJECTS HAZARD 226-436_1

Mower can throw objects up to 300 feet. TO AVOID DEATH OR SERIOUS INJURY to operator or bystanders:

- STOP mowing if bystanders or traffic come within 300 feet.
- DO NOT OPERATE with thrown object shielding removed.
- KEEP thrown object shielding in place and in good condition during operation. Thrown Objects shielding is subject to wear.
- REPAIR OR REPLACE shielding if damaged, broken or missing. See Operator's Manual for all Shields and Guards.
- INSPECT area for potential mower thrown object hazards before mowing.
- Remove and AVOID objects such as wire, cable, metal objects and all other foreign material.
- DO NOT ALLOW blades to contact solid objects like wire, rocks, posts, curbs or guard rails.
- DO NOT OPERATE in transport position or with wings off ground.

! DANGER



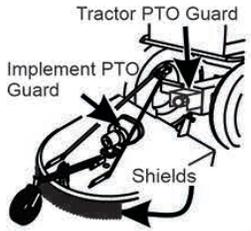
Run Over Hazard - Death or Injury

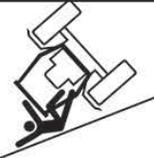
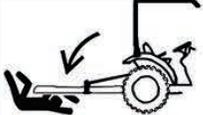
TO AVOID DEATH OR SERIOUS INJURY:

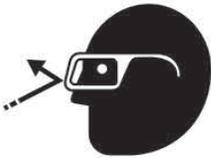
- ALWAYS BUCKLE UP seat belt.
- ONLY START Tractor while seated in the operator's seat.
- STOP ENGINE and PTO, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from tractor.
- KNOW HOW to stop tractor and equipment quickly for an emergency.
- DO NOT MOUNT or DISMOUNT Tractor in motion.
- NEVER ALLOW riders on tractor or implement.
- NEVER ALLOW children to operate or ride on tractor or implement.
- KEEP BYSTANDERS CLEAR of area before moving tractor or implement.
- KEEP ALERT and AVOID hitting stumps, holes, ruts, and uneven terrain.
- AVOID tree limbs, brush and other overhanging objects that can strike and throw the operator from seat.

SAFETY

SAFETY

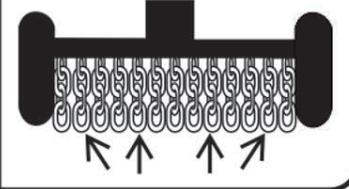
⚠ DANGER	
ENTANGLEMENT HAZARD	
<p>TO AVOID DEATH OR SERIOUS INJURY:</p> <ul style="list-style-type: none"> • DO NOT operate without guards in place and in good condition. PTO and gearbox guarding are SUBJECT TO WEAR. • STAY AWAY and KEEP hands, feet and body AWAY from rotating blades, drivelines and parts that continue to move after power shut-off. WAIT until all moving elements have stopped. • ALWAYS REPLACE GUARDS that have been removed for service or maintenance. • STOP, LOOK and LISTEN for rotating motion before approaching implement. • DO NOT STEP ON drivelines or guards. 	  
226-436_2	

⚠ DANGER	
Crushing Hazard - Death or Injury	
<p>TO AVOID DEATH OR SERIOUS INJURY:</p> <ul style="list-style-type: none"> • USE tractor equipped with <u>R</u>ollover <u>P</u>rotective <u>S</u>tructure ("ROPS") including roll bar and seat belt. Keep roll bar in raised position. • STAND CLEAR when removing transport latch, lowering or raising wings. • IMPLEMENT CAN FALL from hydraulic failure or accidental operation of controls. • BLOCK UP and securely support equipment before putting hands, feet or body under raised equipment or lifted components. • RAISE AND SECURE LOCK Wing Transport Latch before transporting mower on roadways or working under wing. 	  
226-436_3	

⚠ DANGER			
	 www.algqr.com/sme		
<p>TO AVOID DEATH OR SERIOUS INJURY:</p> <ul style="list-style-type: none"> • READ AND UNDERSTAND the provided Operator's Manuals, safety signs and information decals for tractor and implement before operating equipment. • CONTACT DEALER immediately if you do not have manuals. • CONTACT DEALER to explain any instructions not fully understood. • ALWAYS WEAR safety glasses with side shields (marked to comply with ANSI Z87). • WEAR hard hat, safety shoes and gloves for protection when operating equipment. 			
226-436_5		226-436	

SAFETY

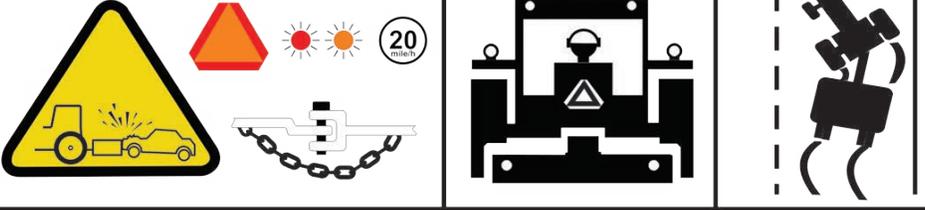
SAFETY

⚠ DANGER	
THROWN OBJECT HAZARD	
TO AVOID DEATH OR SERIOUS INJURY: DO NOT OPERATE if Thrown Object Shielding is damaged or missing.	
MAINTAIN Thrown Object Shielding	
 HERE 	
226-437	

⚠ WARNING		
		
TO AVOID DEATH OR SERIOUS INJURY FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENETRATING SKIN:		
<ul style="list-style-type: none">● DO NOT OPERATE equipment with oil or fuel leaks.● KEEP all hydraulic hoses, lines and connections in good condition and tight before applying system pressure.● Relieve hydraulic pressure before disconnecting lines or working on the system.● REMOVE and replace hose if you suspect it leaks. Have dealer test it for leaks.		
HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE. WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:		
<ul style="list-style-type: none">● DO NOT use hands to check for leaks.● ALWAYS WEAR safety glasses with side shields (marked to comply with ANSI Z87) and impenetrable gloves.● USE paper or cardboard to search for leaks.● KEEP hands and body AWAY from pin holes and nozzles ejecting hydraulic fluid.● Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury.		
226-438 1		

SAFETY

⚠ WARNING



TO AVOID DEATH OR SERIOUS INJURY WHEN TOWING EQUIPMENT:

- DO NOT TOW with trucks or other vehicles.
- ONLY transport with properly sized and equipped tractor. (see Operator's Manual)
- ATTACH implement SAFETY CHAIN to tractor.
- CHECK SMV sign, SIS sign, reflectors and warning lights for visibility behind unit.
- TURN ON tractor flashing warning lights.

TO AVOID LOSS OF TOWING CONTROL:

- DO NOT tow at speeds over 20 mph.
- REDUCE SPEED on inclines, in turns and in poor towing conditions.

⚠ WARNING

TO AVOID EQUIPMENT AND GRASS FIRES:

- CLEAR AWAY grass or debris from slip clutches, gearboxes, drivelines and decks.

TO AVOID FIRE IGNITION:

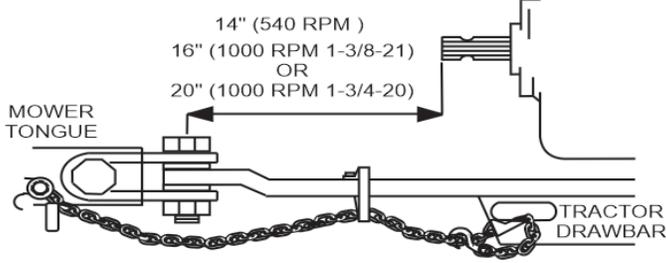
- DO NOT ALLOW BLADES TO CONTACT rocks, metal or solid objects.



226-438_3

IMPORTANT

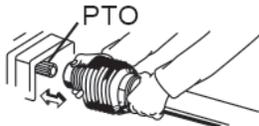
Required for Standard Pull Type Units. 226-438_4



Attach Safety Chain securely. 226-438

SAFETY

SAFETY

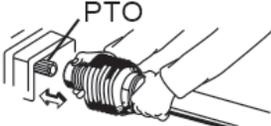
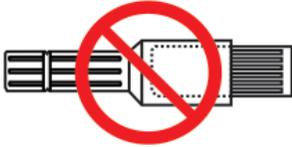
⚠ DANGER		
		
<p>TO AVOID DEATH OR SERIOUS INJURY FROM DRIVELINE CONTACT, DRIVELINE SEPARATION OR PTO STUB SHAFT FAILURE:</p> <ul style="list-style-type: none">● STOP, LOOK and LISTEN for rotating motion before approaching implement.● STAY AWAY and KEEP hands, feet and body AWAY from driveline & rotating parts until all moving elements have stopped.● ALWAYS shut off PTO before dismounting.● DO NOT operate if PTO shields are damaged or missing.● PUSH AND PULL on yoke until collar clicks and locks yoke in place.● CHECK driveline guards for free rotation and sufficient overlap to avoid unshielded areas.● DO NOT USE PTO ADAPTER		
		
⚠ WARNING		
<p>OPERATE THIS MACHINE AT 540 RPM TRACTOR PTO SPEED ONLY. Overspeeding PTO may cause component failure resulting in bodily injury. TRACTOR PTO ROTATION: CLOCKWISE</p>		

226-440_1

226-440

SAFETY

SAFETY

! DANGER		
		
<p>TO AVOID DEATH OR SERIOUS INJURY FROM DRIVELINE CONTACT, DRIVELINE SEPARATION OR PTO STUB SHAFT FAILURE:</p> <ul style="list-style-type: none">● STOP, LOOK and LISTEN for rotating motion before approaching implement.● STAY AWAY and KEEP hands, feet and body AWAY from driveline & rotating parts until all moving elements have stopped.● ALWAYS shut off PTO before dismounting.● DO NOT operate if PTO shields are damaged or missing.● PUSH AND PULL on yoke until collar clicks and locks yoke in place.● CHECK driveline guards for free rotation and sufficient overlap to avoid unshielded areas.● DO NOT USE PTO ADAPTER <p style="text-align: right;">226-441_1</p>		
		
! WARNING		
<p>OPERATE THIS MACHINE AT 1000 RPM TRACTOR PTO SPEED ONLY. Overspeeding PTO may cause component failure resulting in bodily injury. TRACTOR PTO ROTATION: CLOCKWISE</p>		 <p style="text-align: right;">226-441</p>

SAFETY

SAFETY

⚠ DANGER

Crushing Hazard - Death or Injury

TO AVOID DEATH OR SERIOUS INJURY:

- STAND CLEAR when removing transport latch, lowering or raising wings.
- CLEAR AREA of bystanders before lowering implement wings.
- IMPLEMENT CAN FALL from hydraulic failure or accidental operation of controls.
- BLOCK UP and securely support equipment before putting hands, feet or body under raised equipment or lifted components.
- SECURELY ENGAGE transport latch before transportation or working under wing.
- FILL CYLINDERS with oil before attempting to lower implement wings.
- DO NOT OPERATE in transport position or with wings off ground.



226-443

IMPORTANT

SHEAR BOLT BREAKAGE INDICATES THAT THE SLIP CLUTCH HAS SEIZED

Always free up slip clutch when replacing a shear bolt or the drive line will be damaged.

226-447

NOTICE

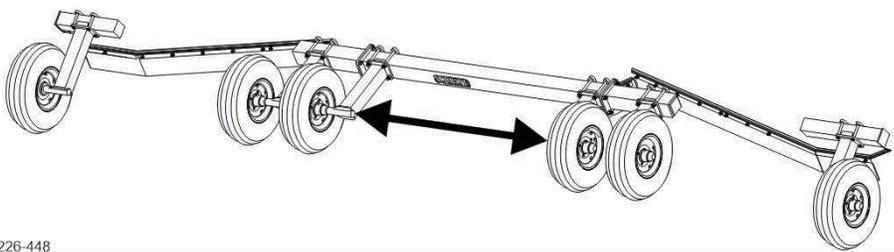
REPLACE OIL IN GEARBOXES AFTER THE FIRST 50 HOURS OF OPERATION, THEN YEARLY OR MAXIMUM OF 300 HOURS.

226-722

IMPORTANT

To increase stability during transportation:

- Move wheels out as far as possible to maximize stability.



226-448

SAFETY

SAFETY

⚠ PELIGRO	⚠ DANGER
Si no puede leer inglés: antes de poner en funcionamiento este equipo, solicite que alguien le traduzca los mensajes de seguridad o vaya al sitio web para consultar los mensajes de seguridad y las etiquetas ya traducidos.	Si vous ne savez pas lire le l'anglais: avant d'utiliser l'équipement, demandez à une personne de vous traduire les messages de sécurité ou allez sur le site Internet pour voir la traduction des autocollants et des messages de sécurité.
El Manual del Operador Seguridad video    www.algqr.com/sms www.algqr.com/svs	Manuel de l'Opérateur   www.algqr.com/smf

⚠ PERIGO	⚠ GEFAHR
Caso você não leia inglês: antes de operar o equipamento, peça para alguém traduzir as mensagens de segurança ou visite a web e obtenha tais mensagens ou os decalques traduzidos.	Falls Sie Englisch nicht lesen können: Lassen Sie sich, bevor Sie das Gerät in Betrieb nehmen, die Sicherheitshinweise von einer geeigneten Person in Ihre Sprache übersetzen. Oder suchen Sie auf unserer Website nach Übersetzungen von Schilderaufschriften und Sicherheitshinweisen.
Manual do Operador   www.algqr.com/smp	Benutzerhandbuch   226-491 www.algqr.com/smg

IMPORTANT

**RETORQUE GEARBOX
BOLTS (240 FT LBS) AFTER
FIRST 8 HOURS OF OPERATION
AND EVERY 50 HOURS
THEREAFTER.**

226-712

SAFETY

FEDERAL LAWS AND REGULATIONS

This section is intended to explain in broad terms the concept and effect of federal laws and regulations concerning employer and employee equipment operators. This section is not intended as a legal interpretation of the law and should not be considered as such.

Employer-Employee Operator Regulations

U.S. Public Law 91-596 (The Williams-Steiger Occupational and Health Act of 1970) OSHA

This Act Seeks:

“...to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources...”

DUTIES

Sec. 5 (a) Each employer-

- (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.
- (b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA Training Requirements

Title 29, Code of Federal Regulations Part 1928.57(a)(6). www.osha.gov

Operator instructions. At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee who operates an agricultural tractor and implements in the safe operating practices and servicing of equipment with which they are or will be involved, and of any other practices dictated by the work environment.

Keep all guards in place when the machine is in operation.

Permit no riders on equipment.

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning, or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain the equipment.

Make sure everyone is clear of machinery before starting the engine, engaging power, or operating the machine.

Employer Responsibilities:

To ensure employee safety during Tractor and Implement operation, it is the employer's responsibility to:

1. Train the employee in the proper and safe operation of the Tractor and Implement.
2. Require that the employee read and fully understand the Tractor and Implement Operator's Manual.
3. Permit only qualified and properly trained employees to operate the Tractor and Implement.
4. Maintain the Tractor and Implement in a safe operational condition and maintain all shields and guards on the equipment.
5. Ensure the Tractor is equipped with a functional ROPS and seat belt and require that the employee operator securely fasten the safety belt and operate with the ROPS in the raised position at all times.
6. Forbid the employee operator to carry additional riders on the Tractor or Implement.
7. Provide the required tools to maintain the Tractor and Implement in a good safe working condition and provide the necessary support devices to secure the equipment safely while performing repairs and service.
8. Require that the employee operator stop operation if bystanders or passersby come within 300 feet.

Child Labor Under 16 Years of Age

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102.)

INTRODUCTION SECTION

Introduction Section 2-1

INTRODUCTION

INTRODUCTION

We are pleased to have you as a Schulte customer. Your Rotary Cutter has been carefully designed with care and built with quality materials by skilled workers to give maximum service with minimum down time. This manual is provided to give you the necessary operating and maintenance instructions for keeping your rotary cutter in top operating condition. Careful use and timely service saves extensive repairs and costly downtime losses. Please read this manual thoroughly. Understand what each control is for and how to use it.

Schulte typically offers three types of shielding to protect the operator, passerby, livestock, and property from thrown objects... deflectors, single chain guards, and double chainguards. Shielding should be selected based on the intended use of the mower. Double chainguards or deflectors should be used for highway, right-of-way, parks or greenbelt mowing or all other mowing where human dwellings, vehicles, or livestock could be within 300 feet of the mower. Chainguards are more durable, provide a longer service life and require less maintenance and replacement than deflectors. Single chainguards may be sufficient for agriculture and other mower use only where passersby or property are not within 300 feet of the mower during operation.

No shielding is 100% effective in preventing thrown objects. The possibility of injury and property damage from this hazard can be substantially reduce by selecting proper shielding, maintaining the mower and shielding in good operational condition, inspecting the area for foreign debris before mowing, operating the mower at a minimum cutting height of 4", and keep unprotected persons at a minimum distance of 300 feet from the mower at all times during operation.

Safety is of primary importance to the owner/operator and to the manufacturer. Observe all safety precautions decaed on the machine and noted throughout the manual for safe operation of implement. If any assistance or additional information is needed, contact your authorized Schulte dealer. The owner/operator/dealer should know and understand the Safety Messages before assembly and be aware of the hazards of operating this cutter during assembly, use, and maintenance. The Safety Alert Symbol combined with a Signal Word, as seen below, is intended to warn the owner/operator of impending hazards and the degree of possible injury faced when operating this machine.



DANGER

Indicates a hazardous situation that, if not avoided, WILL result in DEATH OR VERY SERIOUS INJURY.



WARNING

Indicates an imminently hazardous situation that, if not avoided, COULD result in DEATH OR SERIOUS INJURY.



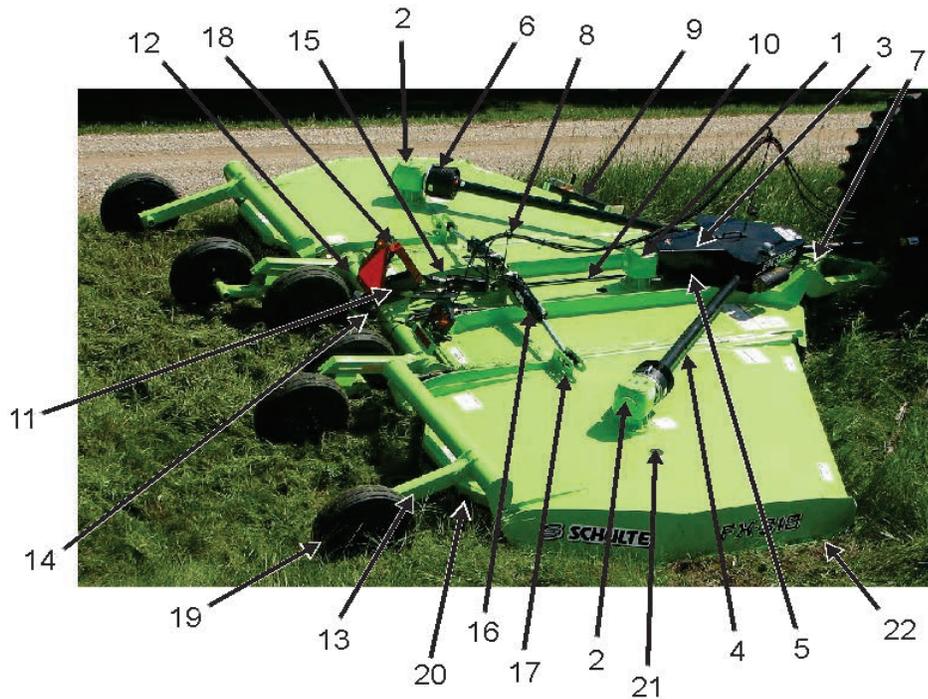
CAUTION

Indicates an imminently hazardous situation that, if not avoided, MAY result in MINOR INJURY.

Important

Identifies special instructions or procedures that, if not strictly observed, could result in damage to, or destruction of the machine, attachments or the environment.

INTRODUCTION



- 1 Center Gearbox
- 2 Wing Gearboxes
- 3 Power Divider Gearbox
- 4 Wing Power Shafts
- 5 Center Gearbox Shielding
- 6 Wing Gearbox Shielding
- 7 Hitch (CV or Equal Angle)
- 8 Hose Holder
- 9 Jack
- 10 Leveling Rod
- 11 Leveling Rod Adjustment Plate
- 12 Center Wheel Standard
- 13 Wing Wheel Standards
- 14 Rubber Suspension
- 15 Height Adjustment Cylinder
- 16 Wing Lift Cylinders Double Acting
- 17 Wing Flootation Lugs
- 18 Lock-Up
- 19 Tires - Laminate, Aircraft or Forklift
- 20 Chain Guards
- 21 Blade Bolt Access Holes
- 22 Replaceable Skid Shoes

INTR-P-0056

INTRODUCTION

The FX320/FX214 heavy duty rotary Cutter is designed primarily for weeds, grass, and brush to 4" diameter. The side skirts are 15" deep. This additional room under the deck, along with high blade tip speeds allows for a better cut and better material flow. The one piece center shield allows for easy and full access to drivelines, clutches and gearboxes on the center section.

Literature Page



www.algqr.com/sle

INTRODUCTION

EQUIPMENT SPECIFICATIONS

	FX-320	FX-214
Cutting Width	240" (6.10m)	170.75" (4.34m)
Transport Width	106" (2.69m)	108" (2.74m)
Overall Width	249" (6.3 m)	175.25" (4.45m)
Overall Length	242" (6.15m)	242" (6.15m)
Cutting Height	2" - 19.25" (5mm - 144mm)	
HP Required (min)	100 HP (75 kW)	70 HP (52 kW)
Cutting Capacity (max)	2" (51mm), Fixed Knife Unit 4" (102mm), Pan Unit	
Weight	7500 lbs (3400 kg)	7350 lbs (3334 kg)
Hitch Weight	2280 lbs (1034 kg)	2100 lbs (953 kg)
Blade Tip Speed		
540 PTO		
Center	16,032 ft/min (4,886m/min)	
Wing	16,032 ft/min (4,886m/min)	
Blade Tip Speed		
1000 PTO		
Center	16,289 ft/min (4,965m/min)	
Wing	16,289 ft/min (4,965m/min)	
Gearbox Rating		
Divider	260 HP (194 kW)	260 HP (194 kW)
Center/Wing	225 HP (168 kW)	225 HP (168 kW)
Wing Working Range	20° Down and 90° Up	
Wing Float Range	20° Down and 40° Up	
Driveline Size		
Center and Wings	CAT 6	CAT 6
540 RPM	CAT 6	CAT 6
1000 RPM	CAT 6	CAT 6

INTRODUCTION

KEY OPERATION POINTS

- Cutting performance and distribution are best when cutter is level from side to side. Mower front to rear pitch should be 1" or less.
- In extra heavy material, rear chains will allow better discharge and better distribution than solid rear deflectors or bands.
- Never operate the Flex-wing below full PTO speed of 540 or 1000 rpm.
- For good distribution, the distribution baffles must be used.
- Make sure PTO driveline slip clutches are not frozen and are properly adjusted.
- To reduce uneven grass cutting and streaking.
 - make sure blades are not bent and are in good condition.
 - reduce ground speed to allow more cutting time.
- Corn should be cut at 5 to 6 mph. If full PTO rpm cannot be maintained, use one lower gear.
- Corn yield of 180 bu. per acre will require a minimum of 105 PTO horsepower to shred at 5 to 6 mph. To maintain the suggested 5 to 6 mph ground speed when cutter is equipped with deck rings, a minimum PTO horsepower of 115 is recommended.
- If tractor engine is lugging down, shift tractor to a lower gear.
- ALWAYS OPERATE WITH THE WING HYDRAULIC CYLINDER CONTROL VALVES IN A FLOAT POSITION.
- For maximum performance and service life, Always use Genuine Schulte replacement parts.

OPERATING NOISE LEVEL/SOUND PRESSURE

The sound levels at the operator's ear from the attached machine (rotary cutter) are at least 10 dB(A) below the levels from typical Agricultural tractors used to power and transport this machine. Therefore, the Noise emission values given by the OEM of the Agricultural tractor used to power and transport this machine would be valid when this machine is attached to and operated by that Agricultural tractor in all OEM recommended applications.

INTRODUCTION



SCHULTE INDUSTRIES LIMITED - FX-320/FX-214 GENERAL STATEMENT AFFECTING ALL SCHULTE WARRANTY

Schulte Industries Ltd. warrants to the original purchaser only, that in the event of any defect in material or workmanship in the product sold by Schulte Industries, the subject of this warranty (“the goods”) during the warranty period mentioned below the manufacturer will provide the coverage specified below.

This warranty is in place of any other warranty or guarantee whether implied or expressed in any conditions of purchase of the buyer, and does not extend to impose any further liability on the manufacturer than set out below.

Any work done to the product without being authorized by Schulte, may not be covered by Schulte.

WARRANTY COVERAGE: All coverage applies to manufacturer’s defects only.

For Commercial, Agricultural, and Government Use

- Structural Warranty is 1 years from the date of purchase.
- Component is 1 year from the date of purchase. Components include hydraulics, hubs, spindles, blade carriers, and light kits.
- Driveline warranty is 1 year from the date of purchase. Warranty covers cross kits, tubes, and yokes. Coverage applies only to manufacturer’s defects when product is properly maintained and lubricated.
- Tires and Rims are covered for 1 year against manufacturer’s defects only.

6 Year Gearbox Warranty (Coverage applies to manufacturer’s defects only)

- 100% parts, labor, and freight cost for year 1 and year 2.
- 100% parts and labor cost for years 3, 4, 5 and 6.

2 Year Seal Warranty (Coverage applies to manufacturer’s defects only)

- 100% parts, labor, and freight cost for year 1.
- 100% parts only for year 2.

For Rental Use

- Component and Driveline Warranty is for 30 days. The warranty coverage starts on the day the product is purchased. Coverage includes parts and labor on repair.
- Structural warranty is 30 days from the first in-service date.
- Tires and Rims are covered for 30 days against manufacturer’s defects only.

Only Schulte replacement parts will qualify for coverage under this warranty.

INTRODUCTION

Where legislation allows:

- The dealer is responsible for any labor charges exceeding a reasonable amount as determined by the manufacturer.
- The customer is responsible for the transportation costs of the product or parts to the dealer for repair.
- Ground freight charges for shipping new warrantable replacement parts to the dealer or customer will be covered by Schulte. **Only ground transportation will qualify for reimbursement.**

CONDITIONAL COVERAGE

All warranty is conditional upon:

- Care, Maintenance and Operation in accordance with the manufacturer's specifications and recommendations (as set out, or referred to in the "Operator's Manual") supplied with the product.
- Submission of the Warranty Registration immediately upon sale of the product.
- The Pre-Delivery Inspection sheet must be sent with the Warranty Registration. Failure to comply will result in warranty claims being denied.

EXCLUSIONS

This warranty does not extend to:

- Damage or deterioration after delivery from the manufacturer not attributable to defective material or workmanship.
- A Rotary Cutter that has been physically altered without the approval of the manufacturer.
- Any goods which have sustained damage or deterioration due to encounters with foreign objects for which the product is not intended, inadequate or faulty assembly, improper or inadequate maintenance, neglect, or abuse.
- Shop supplies such as the use of tools, oil or grease used in the repair or replacement of a warrantable part or component.
- Normal wearing parts such as, but are not limited to safety chains, belting, clutch linings, blades and tire wear.

THE WARRANTY CLAIM PROCESS:

- A Warranty Claim must be submitted within (30) days of the repair.
- The dealer must allow for the examination of the goods by the manufacturer or one of its agents, when requested by the manufacturer to verify that the goods are defective in material or workmanship.
- The Dealer must keep the failed part until the claim is processed, to allow Schulte Industries the option of further examination of the part.

Further examination may mean that pictures are sent, or that the part be returned to Schulte.

- A Return Goods Authorization (RGA) must be sent with any returned part.
- If a failed part is returned to Schulte for examination, Schulte will pay the freight, **Only ground transportation will qualify for reimbursement. Any other types of freight will not be paid, unless authorized on the RGA.**

NOTE: For warranty service or parts the unit can be taken to any authorized Schulte dealer.

Warranty Contacts:

All warranty questions can be emailed to info@schulte.ca or phone Schulte Industries at 1-800-404-6044. Schulte reserves the right to change and modify this warranty policy at any time.

ASSEMBLY SECTION

Assembly Section 3-1

ASSEMBLY

GENERAL ASSEMBLY

Important

Check oil level in all gearboxes before operation. Refer to the 'Lubrication' section of this manual for recommended oil type and viscosity.

Lubricate all grease fittings. Refer to the grease schedule in this manual.

Check that all nuts and bolts are in place and properly tightened. Refer to the 'Maintenance' section of this manual for required bolt grades and torques.

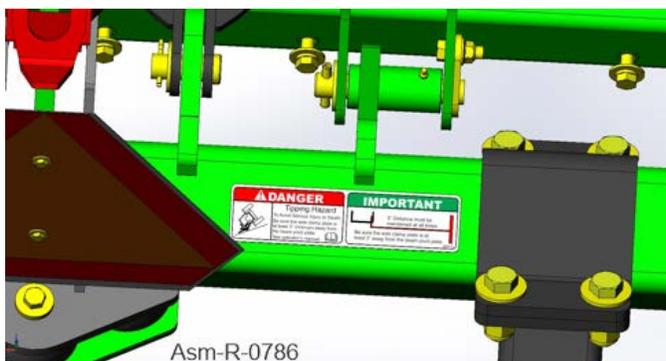
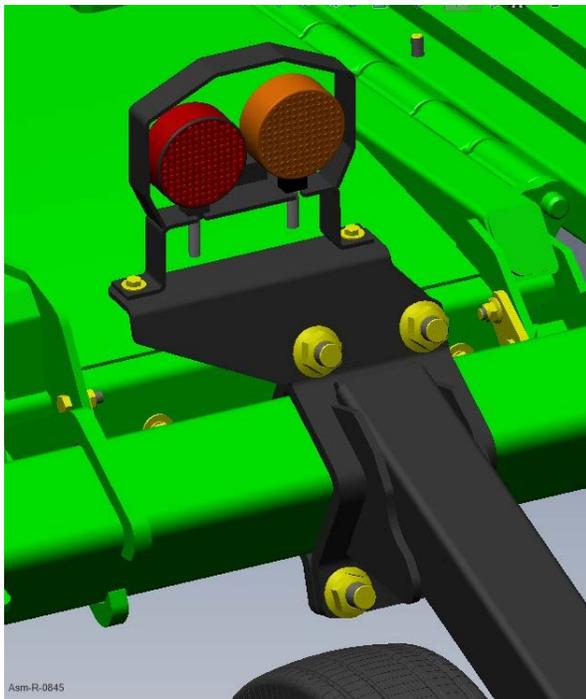
Check that all tires are inflated to proper specifications. Refer to the 'Maintenance' section of this manual for required tire pressures.

WHEEL ARM INSTALLATION

DANGER

To avoid serious injury or death, be sure the axle clamp plate is at least 3" minimum away from the beam pivot plate.

1. Space the wheel arms as wide as possible to meet your specifications and secure the clamp plate as shown. (Asm-R-0835)
2. Install light mount plates outside of clamps. Do not install in between plates.
3. Adjust arm position as needed before tightening bolts.
4. For FX-214 machines, make sure the red line on right side of the decal is NOT covered. (Asm-R-0786)
5. Torque all bolts and re-torque to confirm both sides of the clamps are secure.



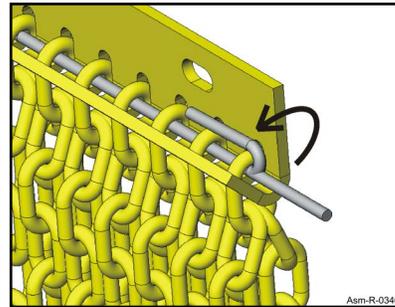
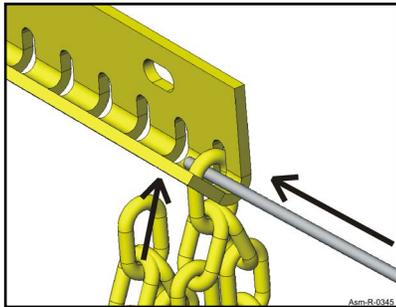
ASSEMBLY

CHAIN GUARDS

The FX-320/FX-214 come standard with single or double chain guards. Use the Parts Manual for chain guard locations on the rotary cutter.

If your machine is equipped with single safety chains insert the first link of the 5 link chain into the first slot of the chain rail. If your machine is equipped with double safety chains (9 links) insert the 5 middle link into the first slot of the chain rail. Once you have the link inserted slide the 1/4" rod into the link. Continue along the length of the chain rail until all links are inserted.

Bend the end 2" of the galvanized rod back to keep the chains from falling loose.

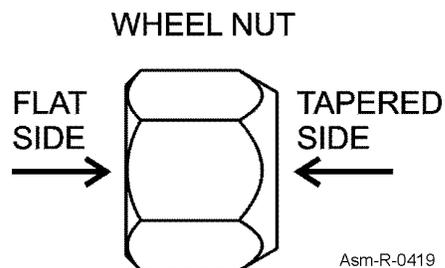
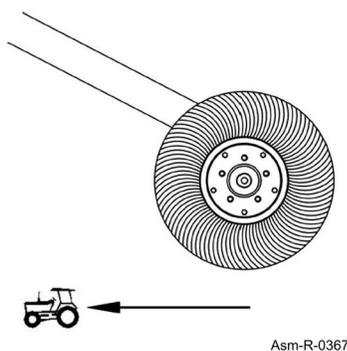


TIRES

To reduce the possibility of the laminations separating, laminated tires should be installed with the laminations orientated as shown.

Always install the laminated or aircraft tires onto the wheel hub with a lockwasher and with the flat side of the nut seated against the lockwasher.

NOTE: Torque 1/2" wheel nuts to 85 ft. lbs.



ASSEMBLY

HYDRAULIC CIRCUITS

Adjust the hoses in the hose organizer to allow sufficient slack for turning. Ensure the hoses will not contact the driveline, will not bind while turning or can become pinched.

Route the left wing hoses over the center lock bar and fasten to the hose clamp. Wrap the hose sections into hook-and-loop hose wrap.

WING SYSTEM

Important

If the rotary cutter has been supplied to you already assembled it is possible that the wing lift hydraulic cylinders are not completely filled with oil.

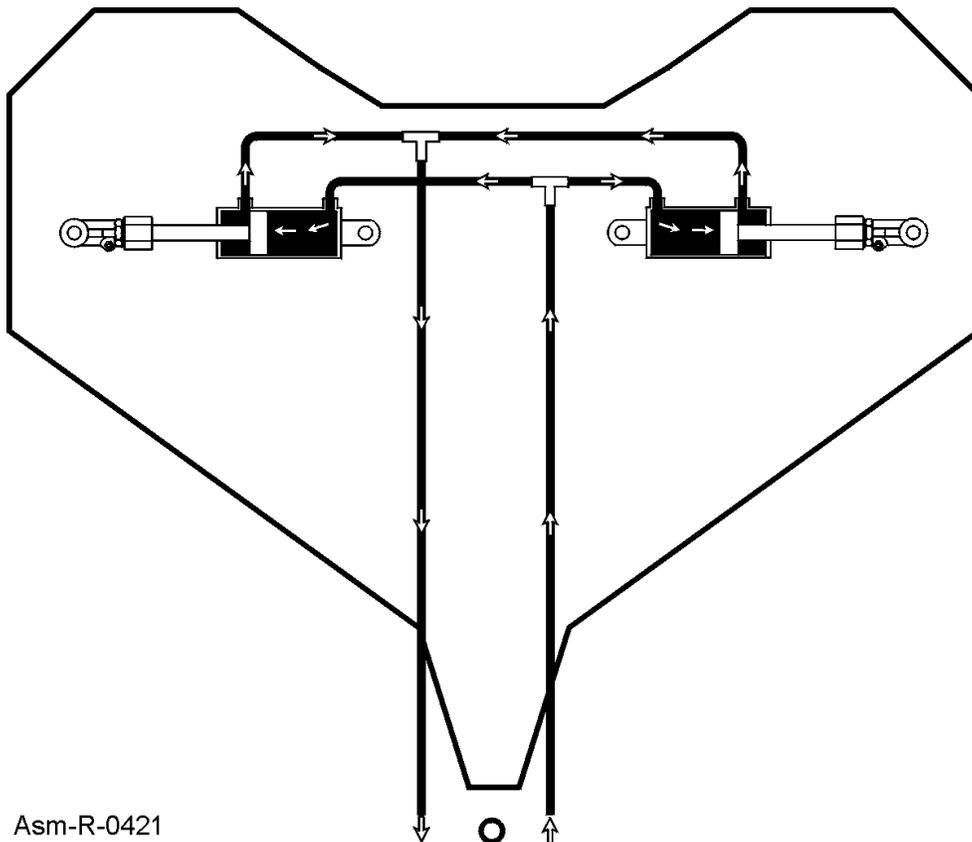
First fully retract the wing cylinders then remove the wing lock up pins.

The wing lift system is marked in blue at the tractor connection.

Refer to the Parts Manual for a complete list of fittings and hydraulic hose part numbers.

⚠ DANGER

NEVER FORCE THE WING LIFT LOCK PINS OUT OF THEIR LOCK POSITION AS THE WINGS MAY SUDDENLY DROP CAUSING INJURY OR EVEN DEATH.



Asm-R-0421

ASSEMBLY

PHASING SYSTEM

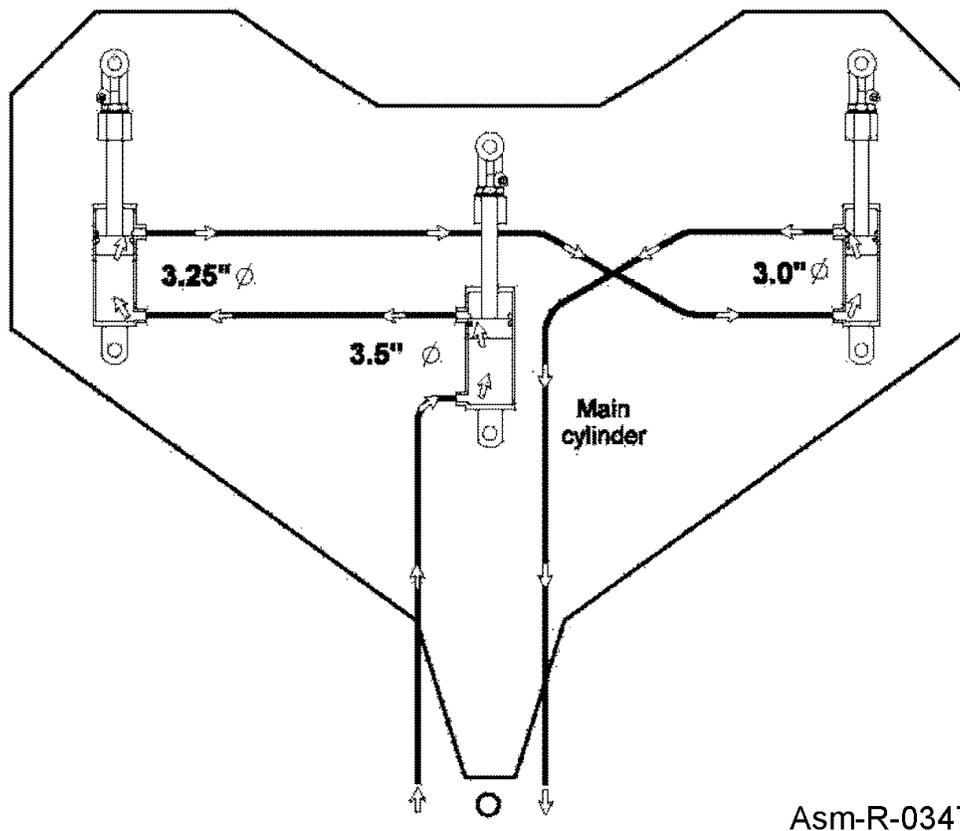
The hydraulic phasing cylinder kit requires one double acting hydraulic circuit for operation. The system is comprised of three hydraulic cylinders with depth stop collars, and allows all wheels to be raised and lowered simultaneously.

Before operation all air must be purged from the hydraulic lift circuit. Fully raise the cutter and hold the tractor's hydraulic control lever forward for 5 minutes to allow oil to fully circulate through the phasing cylinder circuit.

During operation the phasing cylinders should periodically be phased. The hydraulic lever should only have to be held for 10-15 seconds to ensure system is phased.

Hydraulic Phasing Cylinders

A hydraulic phasing cylinder system works by synchronizing the operation of a number of hydraulic cylinders so that they extend and retract at exactly the same rate. This allows a multi-section machine such as a rotary cutter to be raised and lowered evenly across its width. Because a hydraulic cylinder has a 'cylinder rod' attached to the 'piston' the effective area on the rod side of the cylinder is less than the basic effective area of the cylinder. In order to achieve synchronization cylinder diameters are reduced as cylinders are connected to the 'main cylinder' so that the effective area of the upstream cylinder on the rod side is the same effective area of the downstream cylinder on the piston side. The result of this stepping down of cylinder diameters is that all cylinders move at the same rate resulting in a 'level lift'. The phasing system hoses are marked in yellow at the tractor connection.



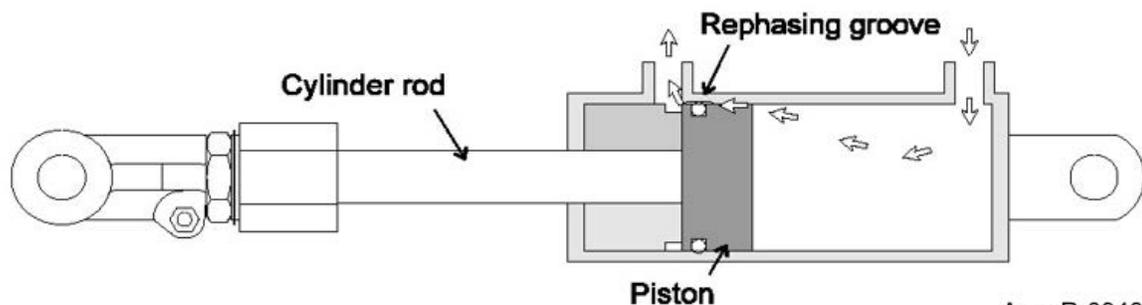
ASSEMBLY

ASSEMBLY

Rephasing Groove

Hydraulic oil moves from one cylinder to the next through an indentation in the cylinder wall known as a 'rephasing groove'. When the cylinder is fully extended this groove creates a bypass over the piston main seal, allowing oil to flow to the next cylinder in the set. Since these grooves are quite small it will often take a number of minutes for oil to completely circulate through the set of cylinders.

On initial startup of a phasing cylinder system it may take a number of minutes to force oil through the system and purge out any air in the hydraulic lines. During normal operation small amounts of oil may leak past piston seals causing cylinders to fall out of synchronization. Synchronization can be restored by fully extending cylinders and holding the circuit open for period of time.



DRIVELINE SHIELD

IMPORTANT: OSHA, ASABE, and SAE standards require that all rotating shafts be guarded against contact. The unchained plastic shields can rotate with the driveline but must stop when they contact another object.

The shields **must** be regularly greased and checked that they rotate freely on the driveline. Refer to the Lubrication section for greasing intervals.



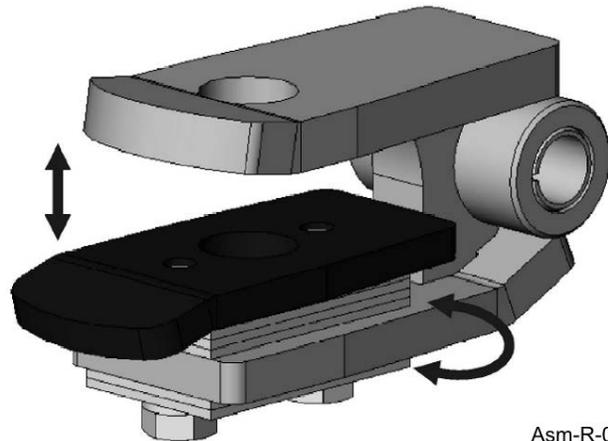
IMPORTANT: Scan this QR Code with your smart phone to link to the ADMA Driveline Safety Manual for more information on the safe use of a driveline during normal operation and maintenance. Or type in your internet browser the following web address: www.algqr.com/dme_Ops-0009-MISC_str



ASSEMBLY

PRECISION CLEVIS – C000-360

Adjust the opening of the precision clevis by shimming the wear plate with the spacers. Remove the two 5/8" bolts and lockwashers and stack the spacers between the wear plate and the hitch block until the opening measures less than 1/8" taller than the drawbar. Replace unused spacers under the hitch block and reinstall the lockwashers and bolts.



Asm-R-0398



WARNING NEVER USE YOUR HANDS TO STEADY THE HITCH BLOCK WHILE THE TRACTOR IS BEING BACKED TO THE HITCH

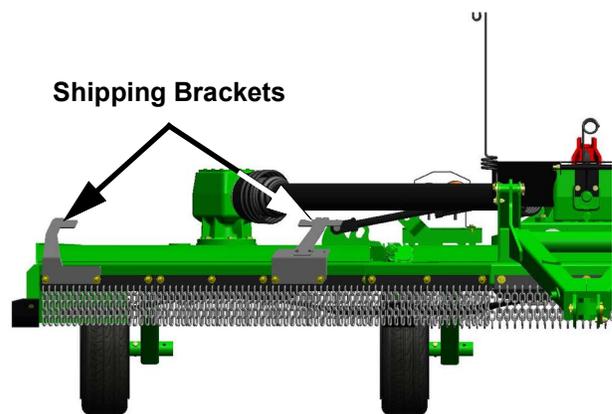


WARNING NEVER STAND BETWEEN THE TRACTOR AND THE ROTARY CUTTER WHILE THE TRACTOR IS BEING BACKED TO THE HITCH

TRACTOR SHAFT

After the wings are lowered to the ground, remove the tractor shaft from shipping brackets on the wing. Longer Bolts have been used to mount the shipping bracket on the machine then needed for the chain guard. Remove these bolts from the machine and replace them with the carriage bolts provided in the manual container. Attach the tractor shaft to the divider gearbox. See *Driveline Attachment* in the **Operation Section**.

Remove the tractor shaft shipping brackets from the machine.



Asm-R-0454

ASSEMBLY

ASSEMBLY

TRANSPORT LIGHT KIT



Use **FLASHING WARNING LIGHTS** when traveling on public roads day or night, unless prohibited by law.

If the rotary cutter obscures the tractor warning or tail lights, the rotary cutter **MUST** be equipped with a transport light kit.

Check local highway regulations concerning moving machinery on highways.

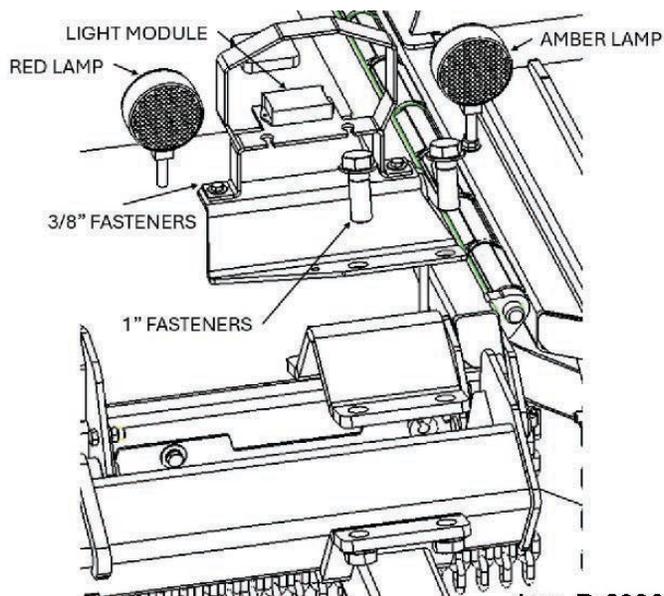
ASSEMBLY

Installation of Lights

Lock the rotary cutter into transport position. Bolt the light frames to the center beam using the supplied 3/8" bolts, washers and locknuts.

Install the lamps onto the light frames with the amber light to the outside of the cutter. The red lamp is to be installed with the red facing the rear.

Install the light module on the right light frame.



Asm-R-0836

ASSEMBLY

ASSEMBLY

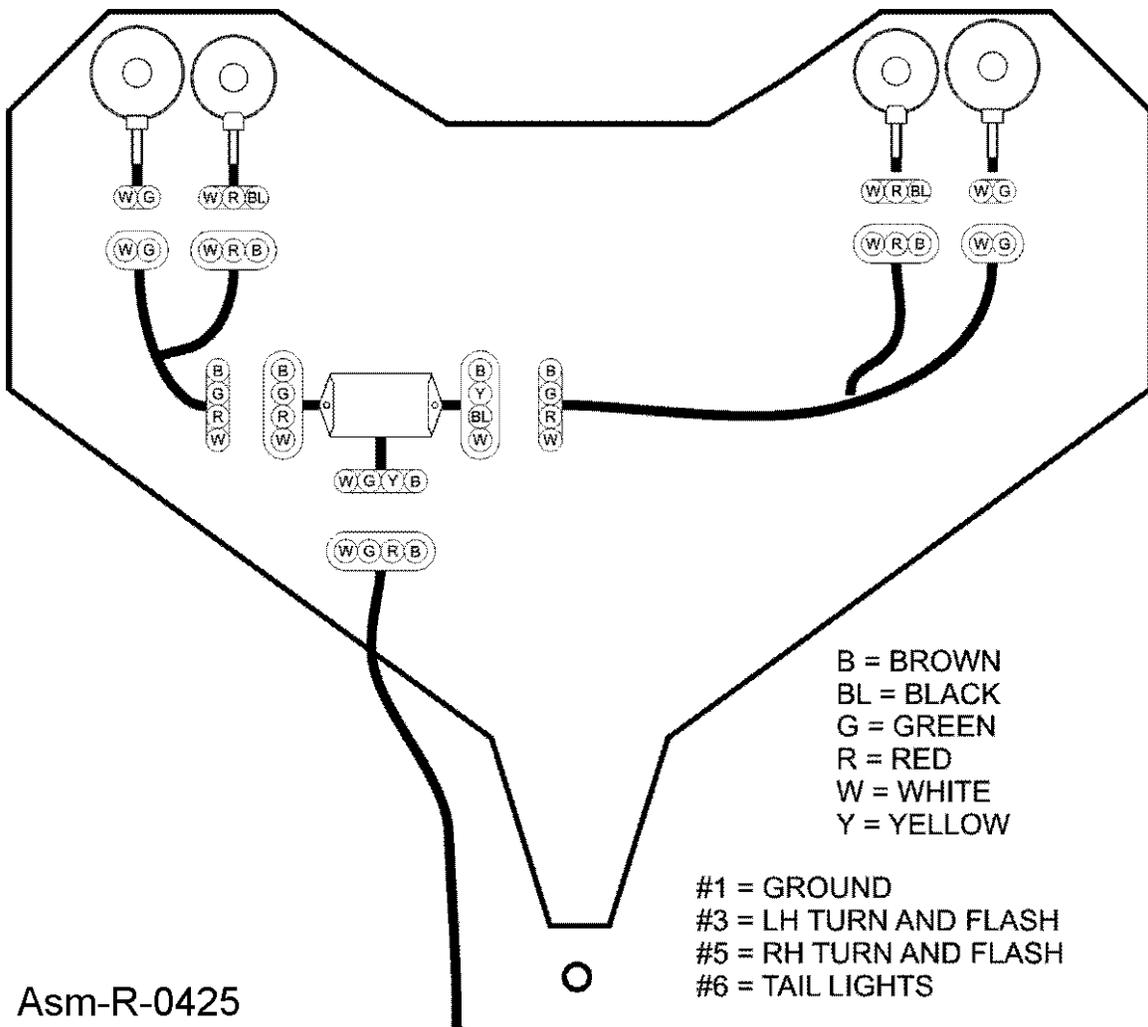
WIRING OF LIGHTS

From the light module, plug the 4-pin right signal output plug to the 12" (30cm) extension harness. Plug the 3-pin plug to the red lamp and the 2-pin plug to the amber plug.

From the light module, plug the 4-pin left signal output plug to the 84" (213cm) extension harness. Plug the 3-pin plug to the red lamp and the 2-pin plug to the amber plug.

Plug the main harness to the input end of the light module. Using plastic wire ties, route the harness along the hydraulic hoses to the front of the rotary cutter. Allow enough slack in the harness for turning.

Test the circuit. The lights should operate in unison with your tractor lights. If the turning lamps are opposite to the tractor, reverse the output to extension harness connections. If the lights do not work at all, check all connections are snug.

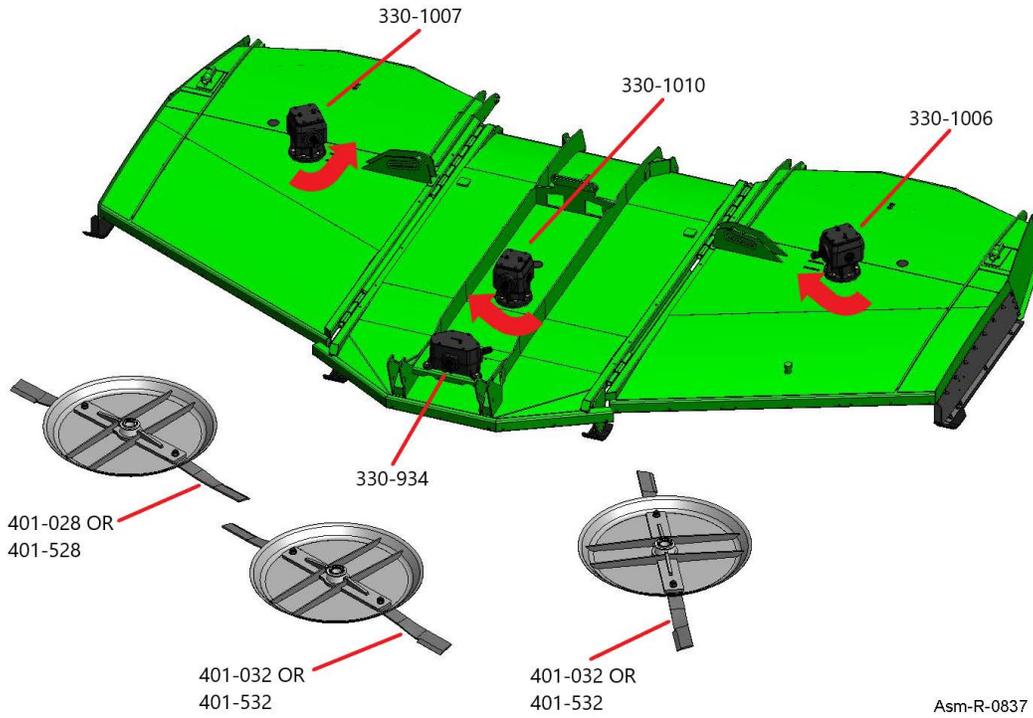


Asm-R-0425

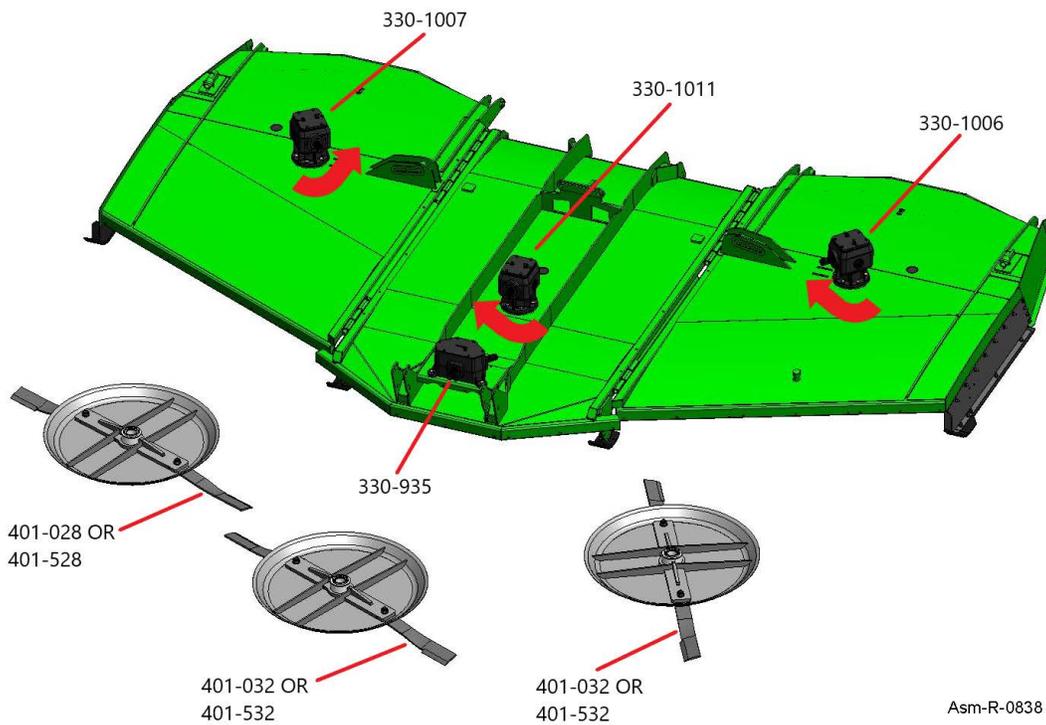
ASSEMBLY

GEARBOX LAYOUT & BLADE ROTATION

CW Pan Machine - 540 RPM



CW Pan Machine - 1000 RPM



FX-320/FX-214 05-25

Assembly Section 3-10

ASSEMBLY

ASSEMBLY FROM TRUCK SHIPMENT

The following are instructions to set up a FX-320/ FX-214 cutter that has been delivered on a truck.

When the cutter is received the hitch will be flipped back onto the cutter as shown on **Figure AsmP-R-0465**. The hitch must be flipped down into working position and pinned to the tension link. Care should be taken when flipping the hitch down as it is heavy and will want to fall when it over centers so a lifting device should be used. Line up the tension link and the hitch as shown in **Figure AsmP-R-0125**. Use the 1" washer and cotter pin that are provided to attach the tension link to the hitch as shown in **Figure AsmP-R-0126**.



OPERATION SECTION

Operation Section 4-1

OPERATION

SCHULTE FX-320 / FX-214 OPERATION INSTRUCTIONS

Schulte FX-320/FX-214 rotary cutters are manufactured with quality material by skilled workers. These cutters are designed to cut grass, weeds, crop stalks, brush and other vegetation up to 4" diameter. The cutter is equipped with protective deflectors and/or chain guards to prevent objects being thrown from the cutter by the blades, however, no shielding is 100% effective. All shields, guards, deflectors, and chains equipped on the unit must be maintained on the mower in good operational condition.

It is the operator's responsibility to be knowledgeable of all potential operating hazards and to take every reasonable precaution to ensure oneself, others, animals, and property are not injured or damaged by the cutter, tractor, or a thrown object. Do not operate the cutter if passersby, pets, livestock, or property are within 300 feet of the unit.

- **All THROWN OBJECT SHIELDING** including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- Mower sections or wing are adjusted to be close and parallel to ground without exposing blades.
- **MOWING AREA** has been inspected and foreign materials and debris have been removed.
- **PASSERSBY** are inside enclosed vehicle.

This section of the Operator's Manual is designed to familiarize, instruct, and educate safe and proper cutter use to the operator. Pictures contained in this section are intended to be used as a visual aid to assist in explaining the operation of a flex-wing rotary cutter and are not necessarily of a FX-320/FX-214 cutter. Some pictures may show shields removed for picture clarity. NEVER OPERATE this implement without all shields in place and in good operational condition. The operator must be familiar with the cutter and tractor operation and all associated safety practices before operating the cutter and tractor. Proper operation of the cutter, as detailed in this manual, will help ensure years of safe and satisfactory use.

IMPORTANT: To avoid mower damage, re-torque all bolts after the first 10 hours of operation. Re-tighten blade carrier retaining nut on gearbox lower shafts to 600 ft. lbs.

READ AND UNDERSTAND THE ENTIRE OPERATING INSTRUCTIONS AND SAFETY SECTION OF THIS MANUAL AND THE TRACTOR MANUAL BEFORE ATTEMPTING TO USE THE TRACTOR AND IMPLEMENT. If you do not understand any of the instructions, contact your nearest authorized dealer for a full explanation. Pay close attention to all safety signs and safety messages contained in this manual and those affixed to the implement and tractor. *OPS-U- 0001str*

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Death or serious injury may occur unless care is taken to follow the warnings and instructions stated in the Safety Messages. Always use good common sense to avoid hazards. (SG-2str)



PELIGRO

Si no lee ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad. (SG-3str)



**¡ LEA EL
INSTRUCTIVO!**



OPERATION

1. OPERATOR REQUIREMENTS

Safe operation of the unit is the responsibility of a qualified operator. A qualified operator has read and understands the implement and tractor Operator's Manuals and is experienced in implement and tractor operation and all associated safety practices. In addition to the safety messages contained in this manual, safety signs are affixed to the implement and tractor. If any part of the operation and safe use of this equipment is not completely understood, consult an authorized dealer for a complete explanation.

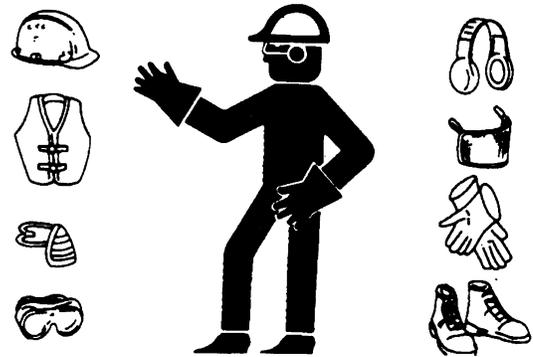
If the operator cannot read the manuals for themselves or does not completely understand the operation of the equipment, it is the responsibility of the supervisor to read and explain the manuals, safety practices, and operating instructions to the operator.

Safe operation of equipment requires that the operator wear approved Personal Protective Equipment (PPE) for the job conditions when attaching, operating, servicing, and repairing the equipment. PPE is designed to provide operator protection and includes the following safety wear:

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Always Wear Safety Glasses (with side shields marked to comply with ANSI Z87)
- Hard Hat
- Steel Toe Safety Footwear
- Gloves
- Hearing Protection
- Close Fitting Clothing
- Respirator or Filter Mask (depends on operating conditions)

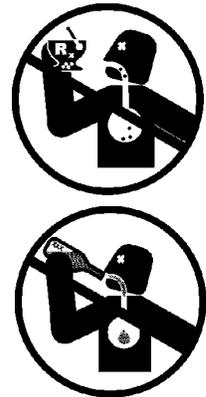
OPS-U- 0002str



⚠ DANGER

DO NOT use drugs or alcohol immediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the Tractor or Implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the Equipment safely. NEVER knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol.

(SG-27) str



OPERATION

2. TRACTOR REQUIREMENTS

The tractor used to operate the mower must have the power capacity to lift, pull, and operate the Power Take Off (PTO) at the mower's rated speed while traveling at a ground speed between 2 and 5 MPH. Operating the mower with a tractor that does not meet the following requirements may cause tractor or mower damage and be a potential danger to the operator and passersby.

Tractor Requirements And Capabilities

- ASAE approved Roll-Over Protective Structure (ROPS) or ROPS cab and seat belt.
- Tractor Safety Devices Slow Moving Vehicle (SMV) emblem, lighting, PTO master shield
- Tractor Horsepower (Minimum) 100 HP (75kW)
- Drawbar 16" and 20" (406mm and 508mm) length for 1000 RPM unit, rated to carry weight of the mower, safety chain attachment point
- Drawbar Vertical Load Capacity (Min) 2865 lbs. (1300 kg)
- Hydraulics 2 Double acting circuits @ 2000 psi (13.8 MPa)
- Front End Weight As needed to maintain 20% weight on front axle
- Power Take Off 1000 RPM (21-spline 1-3/8" diameter output shaft)
1000 RPM (20-spline 1-3/4" diameter output shaft)

2.1 ROPS and Seat Belt

The tractor must be equipped with a Factory Cab and seat belt to protect the operator from death or serious injury. Only operate the tractor while seated in the operator's seat with the seatbelt securely fastened around the operator. *OPS-U- 0051 str*

2.2 Tractor Safety Devices

If transporting or operating the tractor and implement near a public roadway, the tractor must be equipped with proper warning lighting and a Slow Moving Vehicle (SMV) emblem which are clearly visible from the rear of the unit. Lights and a SMV emblem must be equipped directly on implements if the visibility of the tractor warning signals are obscured.

Maintain all manufacturer equipped safety shields and guards. Always replace shields and guards that were removed for access to connect, service, or repair the tractor or implement. Never operate the tractor PTO with the PTO master shield missing or in the raised position. *OPS-U- 0004str*

2.3 Tractor Horsepower

The horsepower required to operate the mower depends on several operating factors including the vegetation to be cut, terrain condition, operator experience, condition of the cutter and tractor, and other factors. For most applications the cutter requires a tractor with at least 100 HP (75kW). Operating the mower with a tractor that does not have adequate power may damage the tractor engine.

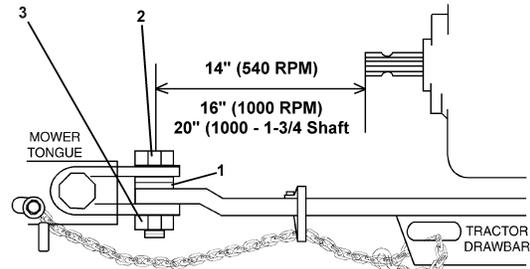
OPERATION

2.4 Drawbar-Pull Type Mower

Position the length of the drawbar from the end of the tractor PTO shaft to the drawbar hitch hole according to the operating speed of the cutter. If the cutter is a 540 RPM unit, position the drawbar length from shaft end to hitch hole at 14". For 1000 RPM cutters, set the drawbar length at 16" for 21 spline 1-3/8" cutters and at 20" for 1-3/4" 20 spline cutters.

Incorrect drawbar length will change angle of driveline causing possible damage to constant velocity joint. Do not use PTO adapters. PTO adapters will invalidate your warranty. See your tractors operator's manual for drawbar adjustment procedures.

IMPORTANT REQUIRED FOR STANDARD PULL TYPE UNIT



Ops-1166

2.5 Tractor Hydraulics

The mower deck and wings are raised and lowered with hydraulic cylinders operated by the tractor hydraulic pump. The mower can be operated on a tractor with a minimum of one single and one double acting circuit. Refer to the assembly and parts section of this manual for hydraulic system set-up or contact an authorized dealer for the best configuration depending on your tractor hydraulic capabilities and your intended mower use

2.6 Front End Weight

Depending on the unit, the mower is designed to operate at a PTO speed of 540 or 1000 RPM. Most tractors operate at either 540, or a combination of 540 and 1000 RPM PTO speeds. The operating speed of the mower and tractor can be determined by the number of splines on the driveline yoke and PTO output shaft. Those operating at 540 RPM will have a 1-3/8" diameter 6-spline shaft and those operating at 1000 RPM will have a 1-3/8" 21-spline shaft or a 1-3/4" 20 spline shaft. Refer to the tractor owner's manual for instructions to change PTO speeds on models that operate at more than one speed.

If operating an older model tractor where the tractor's transmission and PTO utilize one master clutch, an over-running clutch must be used between the PTO output shaft and the driveline of the mower. An authorized tractor dealer can provide the over-running clutch and its installation if needed. OPS-U- 0006_D str

2.7 Power Take Off (PTO)

Depending on the unit, the mower is designed to operate at a PTO speed of 540 or 1000 RPM. Most tractors operate at either 540, or a combination of 540 and 1000 RPM PTO speeds. The operating speed of the mower and tractor can be determined by the number of splines on the driveline yoke and PTO output shaft. Those operating at 540 RPM will have a 1-3/8" diameter 6-spline shaft and those operating at 1000 RPM will have a 1-3/8" 21-spline shaft or a 1-3/4" 20 spline shaft. Refer to the tractor owner's manual for instructions to change PTO speeds on models that operate at more than one speed.

If operating an older model tractor where the tractor's transmission and PTO utilize one master clutch, an over-running clutch must be used between the PTO output shaft and the driveline of the mower. An authorized tractor dealer can provide the over-running clutch and its installation if needed. OPS-U- 0006_D str

OPERATION

⚠ DANGER

DO NOT use a PTO adapter to attach a non-matching Implement driveline to a Tractor PTO. Use of an adapter can double the operating speed of the Implement resulting in excessive vibration, thrown objects, and blade and implement failure. Adapter use will also change the working length of the driveline exposing unshielded driveline areas. Serious bodily injury and/or equipment failure can result from using a PTO adapter. Consult an authorized dealer for assistance if the Implement driveline does not match the Tractor PTO. (S3PT-14) str

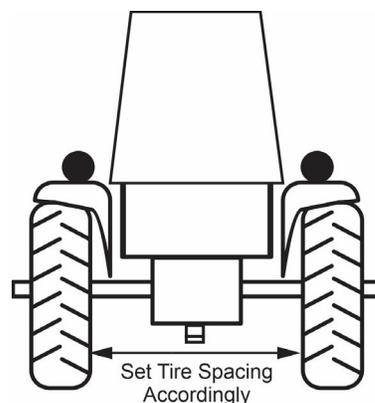
⚠ WARNING

Never operate the Tractor and Mower if the Implement input driveline is directly connected to the Tractor transmission. Tractor braking distances can be substantially increased by the momentum of the rotating Mower blades driving the Tractor transmission even though the Tractor clutch has been disengaged. Install an over running clutch between the Tractor PTO and the Mower driveline to prevent this potentially dangerous situation. (S3PT-16) str

2.8 Tire Spacing

⚠ WARNING

The tire spacing of the tractor must be sufficient to maintain stability on the type of terrain where it is intended to be operated and for the type of implement that is being operated. Always refer to the tractor Operator's Manual or consult the tractor's authorized dealer for instructions on sufficient tire spacing or to change tractor tire spacing. Operating without sufficient tire spacing to maintain stability can result in loss of control of the tractor, a rollover accident, or death or serious injury.



⚠ WARNING

Operate this Equipment only with a Tractor equipped with an approved roll-over-protective system (ROPS). Always wear a seat belt. Death or serious injury can result from falling off the tractor and/or becoming pinned or trapped under the tractor or implement particularly during a rollover accident.



OPERATION

3. GETTING ON AND OFF THE TRACTOR

Before getting onto the mower, the operator must read and completely understand the mower operator's manual. If any part of the manual is not completely understood, consult an authorized dealer for a complete explanation. OPS-U- 0007_B str



WARNING Do not mount or dismount the Tractor while the tractor is moving. Mount the Tractor only when the Tractor and all moving parts are completely stopped. Dismounting a moving power unit can result in a crushing hazard that can cause death or serious injury. (SG-12) str



3.1 Boarding the Tractor

Use both hands and equipped handrails and steps for support when boarding the tractor. Never use control levers for support when mounting the tractor. Seat yourself in the operator's seat and secure the seat belt around you.

Never allow passengers to ride on the tractor or attached equipment. Riders can easily fall off and be seriously injured or killed from falling off and being ran over. It is the operator's responsibility to forbid all extra riders at all times. OPS-U- 0008str



DANGER Never allow children to operate, ride on, or come close to the Tractor or Implement. Usually, 16-17 year-old children who are mature and responsible can operate the implement with adult supervision, if they have read and understand the Operator's Manuals, been trained in proper operation of the tractor and Implement, and are physically large enough to reach and operate the controls easily. (SG-11) str



DANGER Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in death or serious injury. (SG-10)str



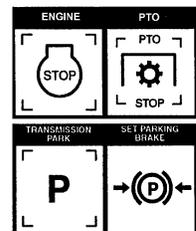
3.2 Dismounting the Tractor

Before dismounting, park the tractor and implement on a reasonably level surface, apply the parking brake, idle the engine down, disengage the PTO, and lower the implement to the ground. Shut down the tractor engine according to the operator's manual, remove the key, and wait for all motion to completely stop. Never leave the seat until the tractor, its engine and all moving parts have come to a complete stop.

Use hand rails and steps when exiting the tractor. Be careful of your step and use extra caution when mud, ice, snow or other matter has accumulated on the steps or hand rails. Use all handrails and steps for support and never rush or jump off the tractor. OPS-U- 0009 str



DANGER BEFORE leaving the tractor seat lower the implement, set the parking brake and/or set the tractor transmission in parking gear, disengage the PTO, stop the engine, remove the key, and wait for all moving parts to stop. Place the tractor shift lever into a low range or parking gear to prevent the tractor from rolling. Never dismount a Tractor that is moving or while the engine is running. Operate the Tractor controls from the tractor seat only. (SG-9)str



OPERATION

4.STARTING THE TRACTOR

The operator must have a complete understanding of the placement, function, and operational use of all tractor controls before starting the tractor. Review the tractor operator's manual and consult an authorized dealer for tractor operation instructions if needed.

Essential Tractor Controls:

- Locate the light control switch
- Locate the engine shut off control
- Locate the brake pedals and the clutch
- Locate the PTO control
- Locate the 3-point hitch control lever
- Locate the hydraulic remote control levers

Before starting the tractor ensure the following:

- Conduct all pre-start operation inspection and service according to the tractor operator's manual.
- Make sure all guards, shields, and other safety devices are securely in place.
- The parking brake is on.
- The PTO control lever is disengaged.
- The 3-point hitch control lever is in the lowered position.
- The hydraulic remote control levers are in the neutral position.
- The tractor transmission levers are in park or neutral.

Refer to the tractor owner's manual for tractor starting procedures. Only start the tractor while seated and belted in the tractor operator's seat. Never bypass the ignition switch by short circuiting the starter solenoid.

After the tractor engine is running, avoid accidental contact with the tractor transmission to prevent sudden and unexpected tractor movement. OPS-U-0028str



Start tractor only when properly seated in the Tractor seat. Starting a tractor in gear can result in death or serious injury. Read the Tractor operators manual for proper starting instructions. (SG-13) str



OPERATION

5. CONNECTING THE CUTTER TO THE TRACTOR

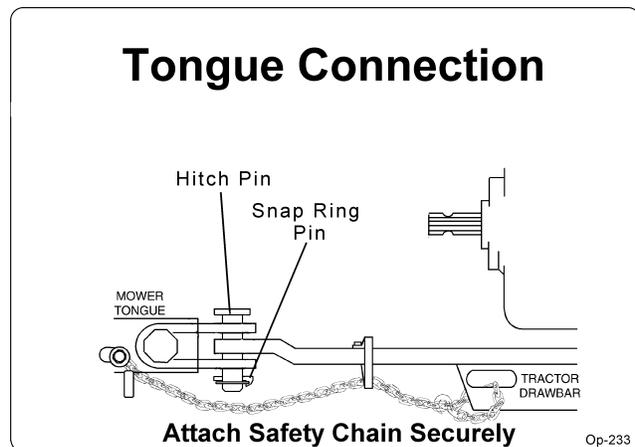
Use extreme caution when connecting the cutter to the tractor. The cutter should be securely resting at ground level or setting on blocks. Place a block in front of and behind the center section wheels to prevent the cutter from moving. Keep hands and feet from under the cutter and clear of pinch points between the tractor and cutter. OPS-R-0001_A str



Always shut the Tractor completely down, place the transmission in park, and set the parking brake before you or anyone else attempts to connect or disconnect the Implement and Tractor hitches. (S3PT-15) str

5.1 Connecting the Mower Tongue to the Tractor

1. Ensure the tractor is equipped with the correct PTO shaft and the drawbar is set at the correct length.
2. Using the parking jack, position the tongue clevis to the height of the tractor drawbar. A screw driver may be inserted into the hole in the side of the swivel hitch to keep the hitch clevis level while connecting to the tractor drawbar.
3. Board the tractor and start the engine. Back the tractor to the cutter aligning the drawbar hitch hole with the cutter tongue clevis. Turn off the tractor engine, place the tractor in park, and set the parking brake before dismounting.
4. To attach the Cutter insert the hitch pin through the drawbar and tongue clevis. Once the pin is inserted, attach the snap ring pin through the hole on the hitch pin and snap in place.
5. Securely attach the cutter safety chain to the tractor drawbar or drawbar support frame.
6. Lower the jack until the tongue is completely supported by the drawbar. Remove jack from the tongue and place on storage bracket of cutter.



NEVER STAND BETWEEN THE TRACTOR AND THE ROTARY CUTTER WHILE THE TRACTOR IS BEING BACKED TO THE HITCH.

OPERATION

5.2 Safety Tow Chain

If the implement is towed on a public roadway, a safety chain with tensile strength equal to or greater than the gross weight of the implement must be connected between the tractor and implement. This will help control the implement in the event the tongue becomes disconnected from the drawbar. Make sure the chain is attached to a secure location on the tractor and not to an intermediate support.

After connecting both ends of the safety chain, drive the tractor to the right and left to check for proper chain length. Adjust length as necessary and allow only enough slack in the chain to make a maximum turn in both directions. When not in use, store the safety chain to protect it from mud or standing water by wrapping the chain around the tongue. Replace the safety chain if one or more links or end fittings are broken, stretched or otherwise damaged or deformed. *OPS-U-0039 str*

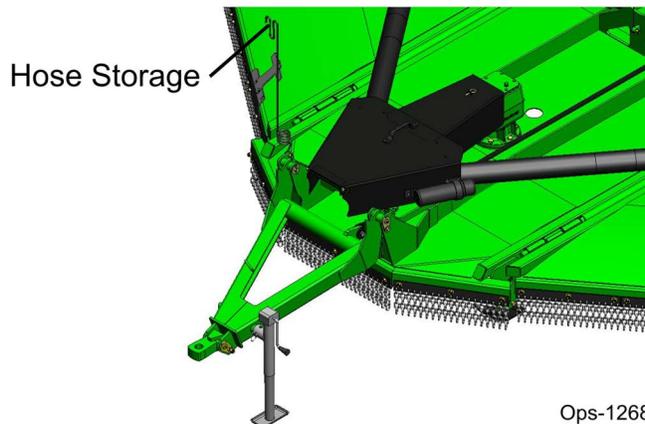
IMPORTANT: Scan this QR Code with your smart phone to link to the PAMI Safe Implement Hitching Manual for more information on correctly connecting agricultural tractors to implements. Or type in your internet browser the following web address: www.algqr.com/hme *Ops-0008-MISC str*



5.3 Connecting Implement Hydraulic Lines to the Tractor

With the tractor shut down and secured in position, relieve hydraulic pressure from the tractor by moving the control levers back and forth several times or placing the levers in the float position.

When connecting the hydraulic lines, keep hoses, quick couplers, and swivels free of contamination. Never leave a disconnected hose end open and cap the tractor hydraulic outlet ports when not in use. If the tractor ports or implement hydraulic hose ends become contaminated, wipe clean with a rag before connecting.



Ops-1268

Hydraulic Line Support

After connecting the hydraulic lines to the tractor, adjust the hoses in the hose organizers to allow sufficient slack for turning. Ensure that hoses do not contact the driveline, do not bind while turning, and do not become pinched or kinked.

Hydraulic Cylinder Priming

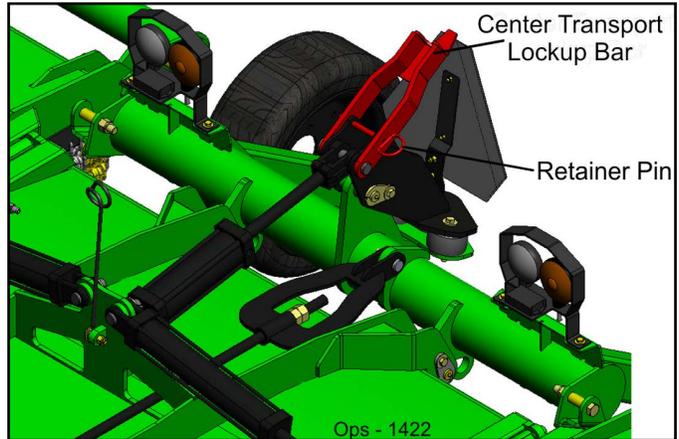
Hydraulic Cylinders must be filled with hydraulic oil before removing the wing transport pins to lower the cutter wings. Hydraulic cylinders and lines are filled by holding the valve control levers in the raised position until the cylinders are fully extended. Place control levers in the float position and repeat process a second time. Ensure wings are entirely supported by the cylinder before removing the transport pins. NEVER drive out pins or remove pins that have tension on them.

OPERATION

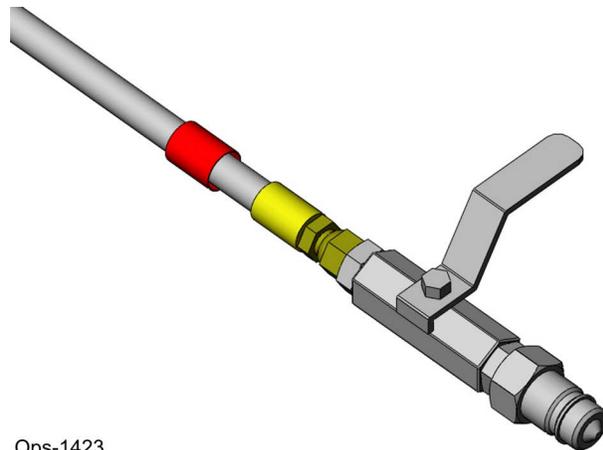
5.4 Lowering the Cutter

Transport lock bar is provided for the center lift cylinder and a ball valve is provided on the wing lift circuit. When the transport lock bar is used on the center lift cylinder it prevents the mower from suddenly dropping due to a hydraulic cylinder or hose failure. When the ball valve is actuated it prevents oil flow in the hydraulic wing lift circuit so the wings of the mower cannot be activated accidentally.

FULLY extend the center lift cylinder until there is no weight on the center transport lockup bar. Flip the lockup bar up and away from the center cylinder and use the retainer pin to lock it in the storage location. NEVER force the transport lockup bar from its position. If the lockup bar does not move freely then the center cylinder is not fully extended. If the rotary cutter has been supplied to you already assembled, it is possible that the lift cylinder is not completely filled with oil.



Actuate the handle of the ball valve so it is in line with the ball valve body. This will allow oil to flow freely to the wing hydraulic lift circuit. Fully retract the cylinders to ensure the cylinders are in the proper location of the floating lug and to ensure they are full of oil. Once the cylinders are fully retracted you may extend the cylinders which in turn lowers the wings.



6. SETTING THE MOWER

Properly setting the cutting height is essential for efficient and safe operation. A properly set mower will make a more uniform cut, distribute clippings more evenly, require minimal tractor work, and follow the contour of uneven terrain. **NOTE:** Avoid very low cutting heights, striking the ground with the blades gives the most damaging shock loads and will cause damage to the mower and drive. Blades contacting the ground may cause objects to be thrown out from under the mower deck. Always avoid operating the mower at a height which causes the blades to contact the ground. OPS-U- 0010 str



Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause death or serious injury. (SG-14)str



OPERATION

6.1 Setting Cutting Height

1. Place the tractor and cutter on a level surface and lower wing sections.
2. Extend or retract the center section main hydraulic lift cylinder to the desired cutting height.
3. Shut down the tractor, place the transmission in park, and set the parking brake before dismounting.
4. Adjust the center section hydraulic cylinder depth stop collar to set the cutting height so that the cylinder returns to the preset cutting height each time the mower is lowered. It might be necessary to use spacer rings (not provided) with the depth stop collar in order to preset the mower for higher cutting heights.

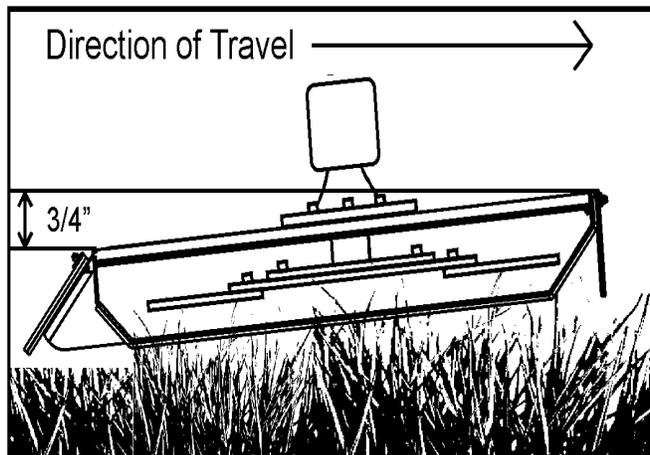


6.2 Setting Deck Pitch

Mower should be operated with the deck approximately 3/4" HIGHER IN THE FRONT THAN THE REAR.

Operating the mower at this pitch will allow the mower to cut the grass twice and can result in a more even cut and improved distribution of the cut material.

IMPORTANT: *Adjust the leveling rods the same amount and maintain equal tension in the rods. Improper adjustment may cause rods to snap or bend. Re-tighten the jamnuts after the deck pitch has been set.*

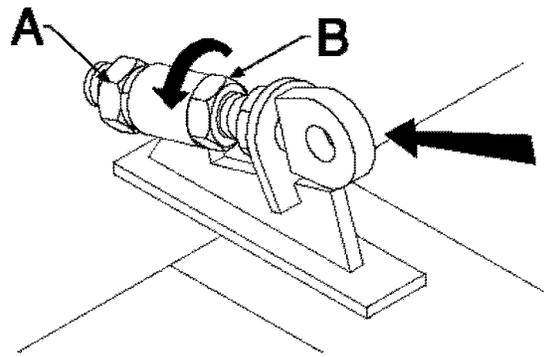


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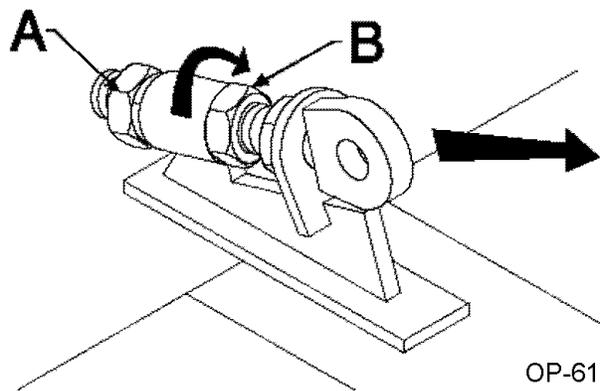
OPERATION

6.3 Leveling the Wing

1. The center section height should be set before adjusting the wing sections. Make sure the tractor is completely shut down, the cutter is completely lowered, and the cutter and tractor are secured in position.
2. To set the wing section height, adjust the 1-1/4" threaded rod on the wing adjustment assembly to level the wings of the cutter with the center section.
3. To raise or lower wing, back off nut "A" first then adjust nut "B". Re-tighten nut "A" and lock washer after adjustment. To lower the wing, retract the threaded rod. To raise the wing, extend the threaded rod.
4. After the wings are set at the desired position re-tighten nut "A" to maintain height setting.



Op-610



OP-611

OPERATION

OPERATION

7. DRIVELINE ATTACHMENT

The driveline yoke and tractor PTO shaft must be dirt free and greased for attachment.

To connect the mower driveline to the tractor PTO output shaft, twist the driveline yoke collar and align the grooves and splines of the yoke with those of the PTO shaft. Push the driveline yoke onto the PTO shaft, release the locking collar, and position the yoke until the locking collar balls are seated onto the PTO shaft. Push and pull the driveline back and forth several times to ensure a secure attachment. *OPS-R-0003_G str*

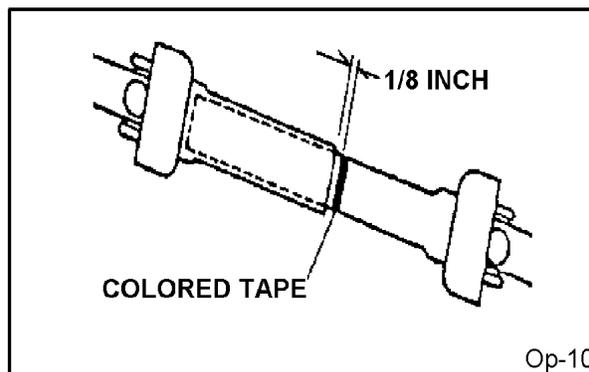


WARNING

When attaching the Implement input driveline to the Tractor PTO, it is important that the connecting yoke spring activated locking collar slides freely and the locking balls are seated securely in the groove on the Tractor PTO shaft. Push and pull the driveline back and forth several times to ensure it is securely attached. A driveline not attached correctly to the Tractor PTO shaft could come loose and result in personal injury and damage to the Implement. *(S3PT-17 str)*

“Bottoming Out” Check Procedures

- Disconnect driveline from the tractor and slide the profiles together until fully compressed.
- Place a mark on the inner shield 1/8” from the end of the outer shield and reattach the driveline to the PTO shaft.
- With the **PTO NOT TURNING**, slowly drive the tractor with mower attached through the sharpest turn possible and watch shaft movement. With the **PTO NOT TURNING**, slowly drive the tractor with the mower attached through the most severe terrain conditions expected and watch shaft movement.
- If the distance between the mark and the outer shield becomes less than 2” at any point there is a potential problem bottoming out the driveline and the driveline should be replaced with shorter driveline. Contact your local dealer or Technical Service for proper directions. *OPS-R-0004_J str*



Driveline in maximum compressed position

NOTE: If tractor has a 540 RPM PTO, adjusting to a 16 inch position will gain additional 2 inches of telescoping length.

OPERATION

Engagement Check Procedure

- With the driveline attached, position the mower to the point where the telescoping driveline is at its maximum extension. Completely shut down the tractor and secure in position
- Mark the inner driveline shield 1/8" from the end of the outer shield.
- Disconnect the driveline from the tractor and separate the two driveline halves.
- Measure the distance from the mark to the end of the inner profile. This length is the amount the driveline profiles were engaged.
- If the engaged length is less than 6", the shaft is considered too short and should be replaced with a longer shaft. Consult an authorized dealer to purchase the required driveline length.

NOTE: *If the driveline cannot be shortened and still maintain the required profile engagement, the operator must be made aware of terrain conditions and avoid situations which pose a potential problem to avoid damaging the driveline or move drawbar to 16" or 20" position for required clearance.*

IMPORTANT: Scan this QR Code with your smart phone to link to the ADMA Driveline Safety Manual for more information on the safe use of a driveline during normal operation and maintenance. Or type in your internet browser the following web address: www.algqr.com/dme *Ops-0009-MISC str*



OPERATION

7.1 Constant Velocity (CV) Driveline

For mowers equipped with a Constant Velocity (CV) driveline, the maximum turning angle between the tractor and mower must be determined to ensure the joint angle does not over-extend which can cause CV joint damage. Constant Velocity joints enable the driveline to operate smoothly with no vibrations and clattering at angles up to 80°. Angles greater than 80° can result in mechanical damage to the CV joint and mower driveline.

The Constant Velocity joint must be lubricated every 8 hours of operation as specified in the Maintenance Section. Failure to properly lubricate the joint will result in accelerated wear and joint component failure.

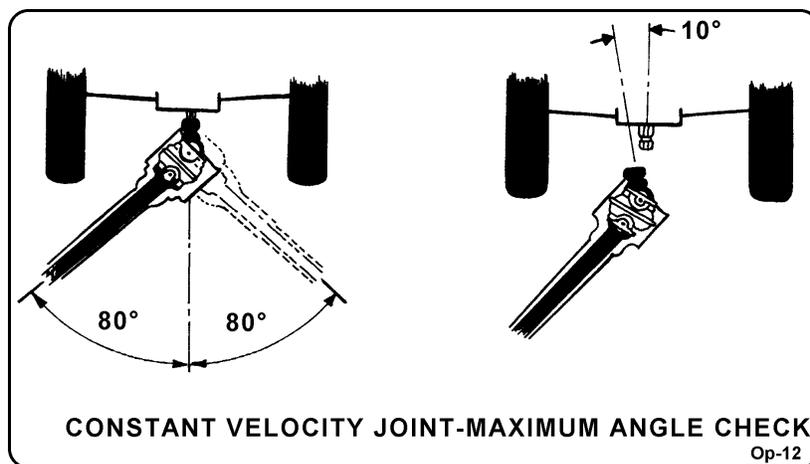
CV Driveline Maximum Angle Check Procedure

- With the **mower attached** to the tractor and the **driveline disconnected** from the tractor PTO stub make a hard left turn until there is approximately a 1" clearance between the left rear tractor tire and mower frame or tongue.
- Stop and completely shut down the tractor. Place the tractor in Park and apply the Parking Brake before dismounting.
- Check the CV joint at this maximum turning radius by holding the driveline yoke above the PTO shaft and then angle the CV joint to its maximum angle. A minimum difference of 10 degrees between the center line of the yoke and the PTO shaft must be maintained to ensure the joint will not be over angled. If the joint cannot be angled at least 10°, there is a potential problem of over-angling the joint while making sharp turns.
- Solutions: To ensure the joint is not damaged, check the following:

Check the drawbar length to ensure that it is at the proper length for the RPM speed of the mower.

Move the tractor rear tires wider apart to limit the tractor turning radius.

Position the mower at multiple angles and perform the above procedure. Determine the sharpest turning radius that maintains a safe operating angle and note this position to the operator. *OPS-R-0006_B str*



OPERATION

8. PRE-OPERATION INSPECTION AND SERVICE

Before each use, a pre-operation inspection and service of the implement and tractor must be performed. This includes routine maintenance and scheduled lubrication, inspecting that all safety devices are equipped and functional, and performing needed repairs. DO NOT operate the unit if the pre-operation inspection reveals any condition affecting safe operation. Perform repairs and replacement of damaged and missing parts as soon as noticed. By performing a thorough pre-operation inspection and service, valuable down time and repair cost can be avoided. OPS-U-0029str



DANGER Always disconnect the main PTO Driveline from the Tractor before performing service on the Implement. Never work on the Implement with the tractor PTO driveline connected and running. Rotating Parts, Blades or Drivelines could turn without warning and cause immediate entanglement, injury or death. (S3PT-11)str



DO NOT allow any person under a folded wing unless the wing is securely locked up or supported. **DO NOT** approach the Implement unless the Tractor is turned off and all motion has ceased. Never work under the frame work, or any lifted component unless the implement is securely supported or blocked up. A sudden or inadvertent fall by any of these components could cause serious injury or even death. (STI-03) str



WARNING Periodically inspect all moving parts for wear and replace when necessary with authorized service parts. Look for loose fasteners, worn or broken parts, and leaky or loose fittings. Make sure all pins have cotter pins and washers. Serious injury may occur from not maintaining this machine in good working order. (SG-21)str



OPERATION

8.1 Tractor Pre-Operation Inspection/Service

Refer to the tractor operator's manual to ensure a complete pre-operation inspection and scheduled service is performed according to the manufacturer's recommendations. The following are some of the items that require daily service and inspection:

- Tire condition/air pressure
- Wheel lug bolts
- Steering linkage
- PTO shield
- SMV sign is clean and visible
- Tractor's lights are clean and functional
- Tractor Seat belt is in good condition
- ROPS is in the raised position
- No tractor oil leaks
- Radiator free of debris
- Engine oil level and condition
- Engine coolant level and condition
- Power brake fluid level
- Power steering fluid level
- Fuel condition and level
- Sufficient lubrication at all lube points
- Air filter condition *OPS-U-0030 str*

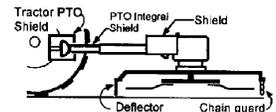


8.2 Mower Pre-Operation Inspection/Service

Before each mower use, a complete inspection and service is required to ensure the mower is in a good and safe working condition. Damaged and/or broken parts should be repaired and/or replaced immediately. To ensure the mower is ready for operation, conduct the following. *OPS-R-0007 str*



All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Chain Guards, Steel Guards, Gearbox Shields, PTO integral shields, and Retractable Door Shields should be used and maintained in good working condition. All safety devices should be inspected carefully at least daily for missing or broken components. Missing, broken, or worn items must be replaced at once to reduce the possibility of injury or death from thrown objects, entanglement, or blade contact. (SGM-3str)



Replace bent or broken blades with new blades. NEVER ATTEMPT TO STRAIGHTEN, WELD, OR WELD HARDFACING ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSEQUENT FAILURE AND POSSIBLY CAUSE SERIOUS INJURY FROM THROWN BLADES. (SGM-10) str

OPERATION

The operator's manual and safety signs affixed on the unit contain important instructions on the safe and proper use of the equipment. Maintain these important safety features on the implement in good condition to ensure the information is available to the operator at all times.

- Ensure the manual canister is secured to the equipment with the operator's manual inside.
- Ensure all safety signs are in place and legible. Replace missing, damaged, and illegible decals. *OPS-U-0011 str*



- Ensure the mower hitch is securely attached to the tractor drawbar with a proper size bolt and secured nut.
- Ensure that a properly rated safety tow chain is equipped securing the mower to the tractor.
- Check that the main driveline is securely attached to the tractor and the clamping cone is seated in the groove of the PTO shaft.
- Ensure the divider drivelines are secure at both ends. *OPS-R-0008_K str*



- Ensure chain guards and/or rubber deflectors are in position and not damaged. Replace worn, broken, and missing sections immediately.
- Ensure the driveline integral shields are in good condition and rotate freely.
- Inspect that all bolts and screws are in position and are properly torqued. *OPS-R-0009_K str*



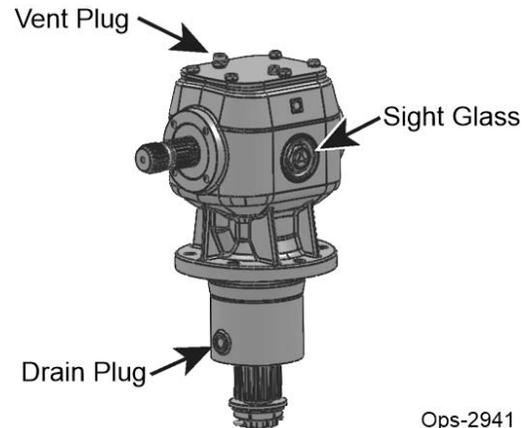
OPERATION

OPERATION

- Ensure the tractor PTO master shield is in place, lowered and in good condition.
- Ensure each mower slip clutch shield is secured in place and in good condition.
- Ensure the driveline slip clutch friction plates are not frozen together. Reference the Maintenance Section for proper slip clutch maintenance. *OPS-R-0010_G str*



- Perform scheduled lubrication as specified in the maintenance section.
- Inspect each gearbox oil level using sight glass indicator and replenish if needed. A low oil level is a warning sign that the gearbox may be cracked or its seal is damaged and needs to be replaced.
- Ensure all gearbox vents are in place and free from clogs. *OPS-R-0011_U str*



- Ensure each hydraulic cylinder is installed and retained correctly. Ensure the proper size pins are used to retain the cylinders in place and are secured with pins.
- Check for hydraulic oil leaks on the cylinders, along the hydraulic lines, and at tractor hydraulic ports.

IMPORTANT: DO NOT use your hands to check for oil leaks. Use a piece of heavy paper or cardboard to check for hydraulic oil leaks. *OPS-R-0013_E str*



OPERATION

- Ensure that the mower is equipped and secured with wing transport locks.
- Check the condition of the wing hinge pins.
- Check the condition of the mower axle suspension spring.
- Inspect mower tire condition, wheel bearings, and lug nut torque. *OPS-R-0014_M str*



- Inspect blades and blade bolts for looseness and excessive wear. Make sure the mower is securely blocked up before crawling beneath. Replace damaged, worn, and missing blades as complete sets to maintain rotary balance.
- Ensure carrier hub nuts are tightened with the cotter pin inserted and spread. Check maintenance section for proper torque.
- Inspect the condition of the deck skid shoes and the skid shoe attaching hardware. *OPS-R-0012_A str*

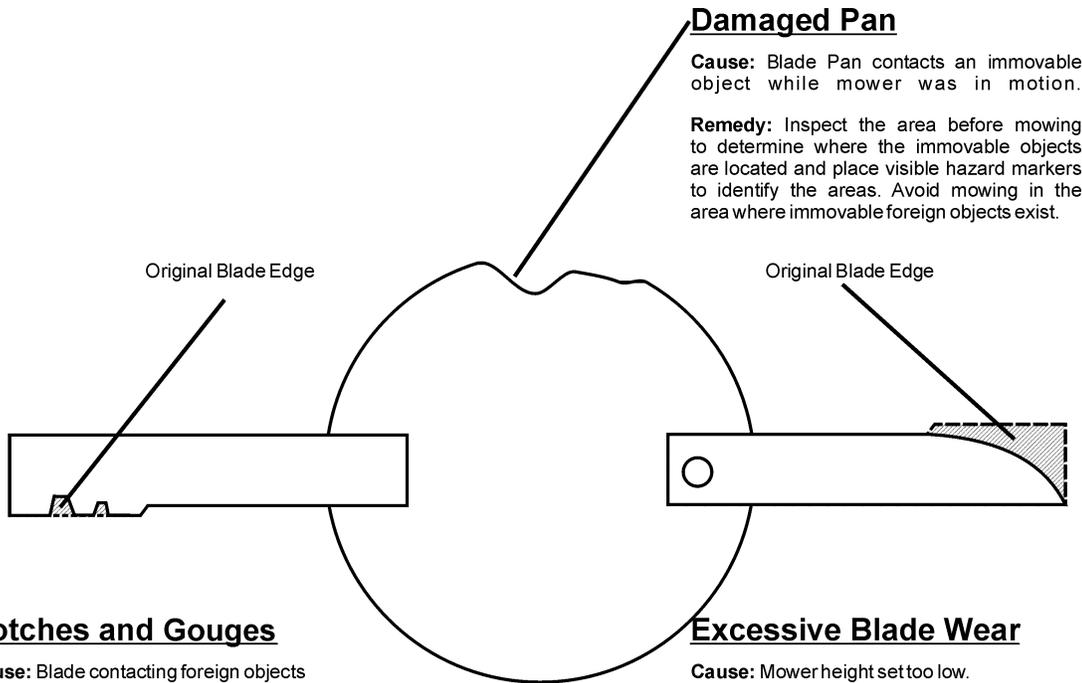


OPERATION

OPERATION

8.3 Cutting Component Inspection

Inspect blade pan and blade assembly for the following:



Damaged Pan

Cause: Blade Pan contacts an immovable object while mower was in motion.

Remedy: Inspect the area before mowing to determine where the immovable objects are located and place visible hazard markers to identify the areas. Avoid mowing in the area where immovable foreign objects exist.

Notches and Gouges

Cause: Blade contacting foreign objects

Remedy: Inspect the area to be mowed and remove foreign objects that could cause damage to the blades

Excessive Blade Wear

Cause: Mower height set too low.
Blade used past intended life.

Remedy: Replace blades more often.
Adjust mower height for mowing
Conditions to eliminate blade-to-ground contact

Op-22

OPS-U-0031str

Check Output Shaft Nut Torque.
Maintain 600-ft. lbs.

Check Blade Bolt Torque.
Torque to 600 ft. lbs.



FX-320/FX-214 05-25

Operation Section 4-22

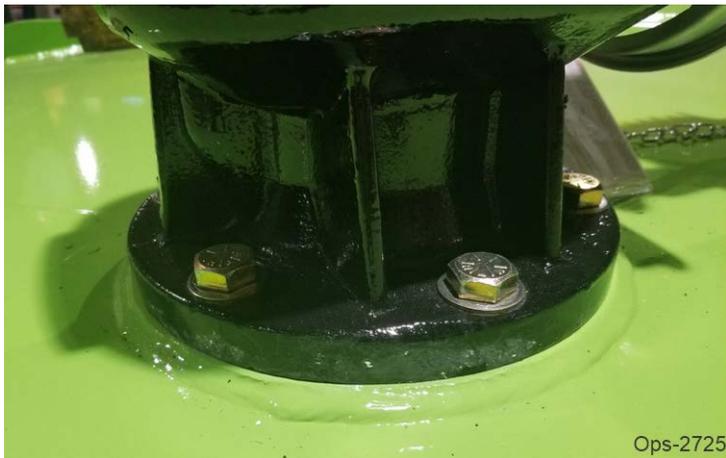
OPERATION

⚠️ WARNING

Operating the mower with loose blade hardware will damage the blade holder or blades and can result in blade breakage or blade fastener failure. Broken blades or bolts can be thrown out from under the mower for distances up to 300 feet. When the blades are replaced, the fastening hardware must be replaced. Check and re-tighten the blade hardware after the first eight hours of operation. In severe cutting conditions, recheck the blade carrier and blade bolt torque every 50 hours. Gearbox bolts should be torqued to 240 ft. lbs.

Important

To help prevent structural damage caused by loose hardware, tighten gearbox mounting hardware as specified. Check the fastener torque after first 8 hours of use and every 50 hours thereafter. Gearbox bolts should be torqued to 240 ft. lbs.



IMPORTANT

RETORQUE GEARBOX BOLTS (240 FT LBS) AFTER FIRST 8 HOURS OF OPERATION AND EVERY 50 HOURS THEREAFTER.

226-712

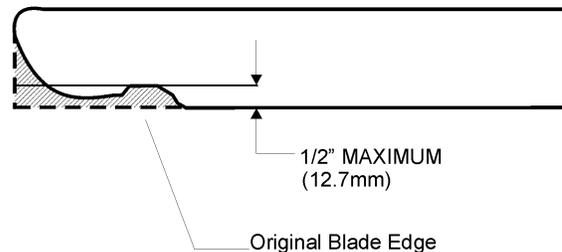
OPERATION

⚠️ DANGER

Inspect the Blades daily for abnormal wear. REPLACE BOTH BLADES on that carrier IMMEDIATELY if either blade has:

- Become bent or deformed from it's original shape or
- Any cracks are visible, or
- Deep gouges in the blade's surface are present, or
- Gouges or chipped areas in the cutting edge are larger than 1/2" (12.7mm), or
- The material on the leading edge has been worn away by more than 1/2" (12.7mm)"

Failure to replace abnormally worn blades may lead to catastrophic failure of the blades and ejection of the broken part with tremendous force which may cause serious bodily injury or death. OPS-U-0032str



NOTE:

Replace Blades in pairs after no more than 1/2" (12.7mm) wear

Op-23

OPERATION

8.4 Blade Bolt Inspection

Inspect Blade Bolt Head daily for wear as follows:

Excessive Blade Bolt Wear

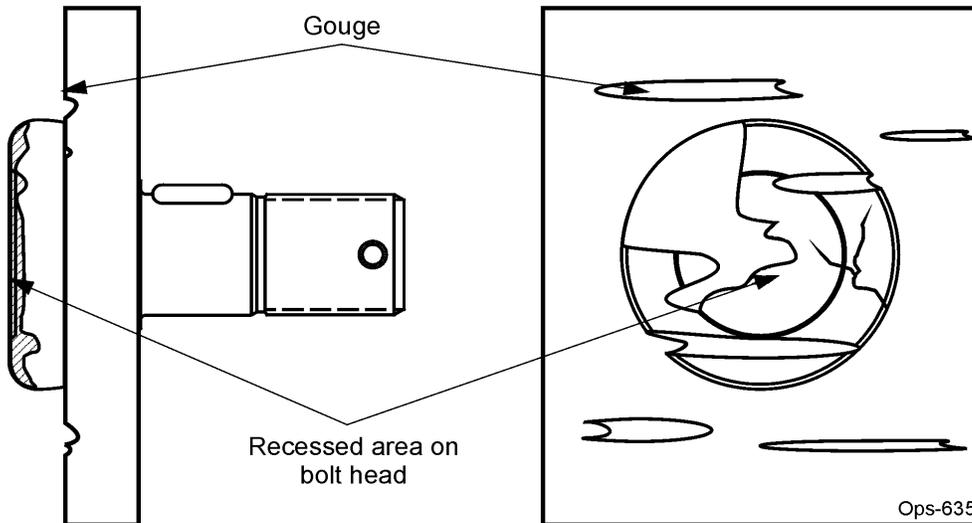
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

Remedy: Inspect the area before mowing to determine where the foreign objects are located and place visible hazard markers to identify the areas where immovable foreign objects exist, and avoid hitting the objects.

Notches and Gouges

Cause: Blade Bolt contacting foreign objects.

Remedy: Inspect area to be mowed and remove foreign objects that could cause damage to the blade bolt.



⚠ DANGER

Inspect the Blade Bolt Heads daily for abnormal wear. REPLACE BOTH BLADE BOLTS on the Blades IMMEDIATELY if either blade bolts has:

- Visible cracks or
- If the recessed area on blade bolt is worn off or
- If Blade Bolt has gouges or chipped areas.

Failure to replace abnormally worn blade bolts may lead to catastrophic failure of the blades and ejection of the broken part which may cause serious bodily injury or death.

Always replace Blade Bolts with new bolts whenever replacing the Blades.

OPS-U-0037 str

OPERATION

ROTARY MOWER PRE-OPERATION INSPECTION



Mower ID# _____
 Date: _____
 Make: _____
 Shift: _____

IMPORTANT: Scan this QR Code for an electronic copy of this inspection sheet.



Before conducting the inspection, make sure the tractor engine is off, all rotation has stopped and the tractor is in park with the parking brake engaged. Make sure the mower is resting on the ground or securely blocked up and all hydraulic pressure has been relieved.

Item	Condition at Start of Shift	Specific Comments if not OK
The Operator's Manual is in the canister on the mower		
All safety decals are in place and legible		
The tongue/hitch connection bolts and pins are tight		
There are no cracks in tongue or hitch		
The tow chain is secured to the tractor and mower		
The hydraulic cylinder pins are tight		
There are no leaking or damaged hoses		
The mower deck is clear of cut grass and debris		
Chain guards/deflectors are in place and in good condition		
Driveline/gearbox shields are in good condition		
Driveline clutches are in good condition, not frozen		
Driveline telescoping members and U-joints are lubricated		
Driveline yokes are securely attached to PTO and mower		
Gearbox mounting bolts are tight		
Gearbox oil is at the proper level		
Blade carrier retaining nut is tight		
Blades are not chipped, cracked or bent		
Blade bolts are tight		
Wheel lugs are tight		
Transport locks are in good condition		
Proper hourly greasing as per Operator's Manual		

Operator's Signature: _____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

OPERATION

OPERATION

TRACTOR PRE-OPERATION INSPECTION



Tractor ID# _____

Date: _____

Make : _____

Shift: _____



Before conducting the inspection, make sure the tractor engine is off, all rotation has stopped and the tractor is in park with the parking brake engaged. Make sure the implement is resting on the ground or securely blocked up and all hydraulic pressure has been relieved.

OPERATION

Item	Condition at Start of Shift	Specific Comments if not OK
The flashing lights function properly		
The SMV Sign is clean and visible		
The tires are in good condition with proper pressure		
The wheel lug bolts are tight		
The tractor brakes are in good condition		
The steering linkage is in good condition		
There are no visible oil leaks		
The hydraulic controls function properly		
The ROPS or ROPS Cab is in good condition		
The seatbelt is in place and in good condition		
The 3-point hitch is in good condition		
The drawbar pins are securely in place		
The PTO master shield is in place		
The engine oil level is full		
The brake fluid level is full		
The power steering fluid level is full		
The fuel level is adequate		
The engine coolant fluid level is full		
The radiator is free of debris		
The air filter is in good condition		
Proper hourly greasing is done per Operator's Manual		

Operator's Signature: _____

DO NOT OPERATE an UNSAFE TRACTOR or IMPLEMENT

OPERATION

9. DRIVING THE TRACTOR AND MOWER

Safe tractor transport requires the operator possess a thorough knowledge of the model being operated and precautions to take while driving with an attached implement. Ensure the tractor has the capacity to handle the weight of the implement and the tractor operating controls are set for safe transport. To ensure safety while driving the tractor with an attached implement, review the following. OPS-U- 0012str



DANGER

Never run the Tractor engine in a closed building or without adequate ventilation. The exhaust fumes can be hazardous to your health. (SG-23) str



WARNING

Transport only at speeds where you can maintain control of the equipment. Serious accidents and injuries can result from operating this equipment at high speeds. Understand the Tractor and Implement and how it handles before transporting on streets and highways. Make sure the Tractor steering and brakes are in good condition and operate properly.

Before transporting the Tractor and Implement, determine the proper transport speeds for you and the equipment. Make sure you abide by the following rules:

Test the tractor at a slow speed and increase the speed slowly. Apply the Brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum transport speed not to exceed 20 mph (30 kph) for transporting this equipment.

Test the equipment at a slow speed in turns. Increase the speed through the turn only after you determine that the equipment can be operated at a higher speed. Use extreme care and reduce your speed when turning sharply to prevent the tractor and implement from turning over. Determine the maximum turning speed for you and this equipment before operating on roads or uneven ground.

Only transport the Tractor and Implement at the speeds which allow you to properly control the equipment.

Be aware of the operating conditions. Do not operate the Tractor with weak or faulty brakes or worn tires. When operating down a hill or on wet or rain slick roads, the braking distance increases: use extreme care and reduce your speed. When operating in traffic always use the Tractor's flashing warning lights and reduce your speed. Be aware of traffic around you and watch out for the other guy. (SG-19)str



OPERATION

9.1 Starting the Tractor

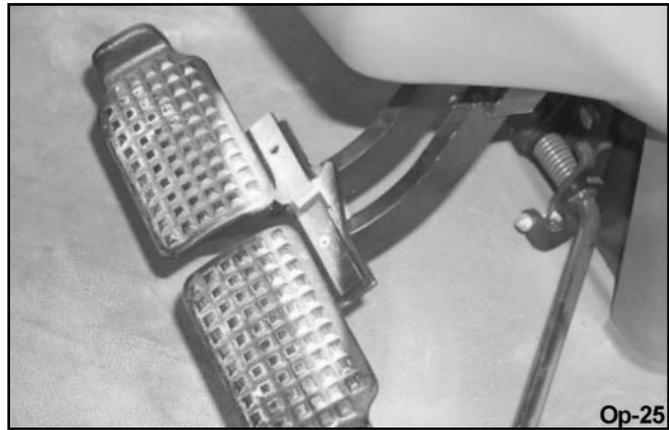
The procedure to start the tractor is model specific. Refer to the tractor operator's manual for starting procedures for your particular tractor. Consult an authorized dealer if the starting procedure is unclear. Ensure the 3-point control lever is in the lowered position and the PTO is disengaged before starting the tractor. OPS-U-0033str



9.2 Brake and Differential Lock Setting

Make sure the tractor brakes are in good operating condition. Tractor brakes can be set to operate independently allowing single rear wheel braking action or locked together to provide simultaneous rear wheel braking. FOR MOST DRIVING AND OPERATING CONDITIONS, THE BRAKE PEDALS SHOULD BE LOCKED TOGETHER TO PROVIDE THE MOST EFFECTIVE BRAKING ACTION.

Always disengage the tractor differential lock when turning. When engaged the differential lock will prevent or limit the tractor from turning. During normal operating conditions, locking the differential provides no benefit and should not be used.



⚠️ WARNING

Be aware of the operating conditions. Do not operate the Tractor with weak or faulty brakes. When operating down a hill or on wet or rain slick roads, the braking distance increases. Use extreme care and reduce your speed in these conditions. When operating in traffic, always use the Tractor's flashing warning lights and reduce your speed. Be aware of traffic around you and watch out for the other guy. OPS-U- 0013 str

9.3 Operating the Cutter Wings

Wings are positioned with hydraulic cylinders. Ensure the hydraulic cylinders and lines are filled with oil by holding the valve control levers in the raised position until the cylinders fully retract (wings) and extend (center). Only operate the cutter with both wings fully lowered, NEVER operate the cutter with a raised wing. Wait until the blades are at a complete stop before raising wings. OPS-R-0015_B str
Transport Position

OPERATION

To raise mower wings, drive the unit to a level area and retract the wing hydraulic cylinders. DO NOT raise wings with the mower positioned on an embankment or other inclined position to prevent overturning the mower. After the wings are fully raised, install transport lock braces to prevent wings from inadvertently falling. **NOTE:** *If the transport lock braces can not be easily installed, lower the mower wings and remove rod end of cylinder and adjust the rod clevis in or out to match the transport brace length.*

The center of gravity is raised and the mower more prone to tipping when the wings are in the raised position. When transporting, raise the center section high enough to clear ground obstacles. OPS-R-0016 str



DANGER

When the Wings are folded for transport, the center of gravity is raised and the possibility of overturn is increased. Drive slowly and use extreme caution when turning on hillsides. Overturning the Implement could cause the Implement to overturn the Tractor and vice versa resulting in serious injury or even death. Never fold wings on a hillside...the Implement or unit may overturn. (STI-02) str

9.4 Operating Position

To lower the wings, remove the transport lock braces and secure braces on storage bracket. DO NOT drive out transport brace pins. The wing cylinder may need to be retracted to remove tension for brace removal. After removing brace bars, extend wing hydraulic cylinders and fully lower wings.

The valves operating wing cylinders should be placed in the float position while mowing to allow the mower to follow the contour of uneven terrain and to prevent the wings from creeping up. When extending a wing over a ditch for mowing, place the control valve lever detents in the center position. This will give the mower more stability and prevent the opposite wing from raising. DO NOT operate the mower with the valves in the detent position for extended periods of time to prevent deck frame damage. OPS-R-0017 str



WARNING

Use extreme care when lowering or unfolding the implement's wings. Make sure no bystanders are close by or underneath the wings. Allow ample clearance around the implement when folding or unfolding the wings. Use extreme caution around buildings or overhead power lines. (S3PT-05) str

OPERATION

OPERATION

9.5 Driving the Tractor and Mower

Start off driving at a slow speed and gradually increase your speed while maintaining complete control of the tractor and mower. Moving slowly at first will also prevent the tractor from rearing up and loss of steering control. The tractor should never be operated at speeds that cannot be safely handled or which will prevent the operator from stopping quickly during an emergency. If the power steering or engine ceases operating, stop the tractor immediately as the tractor will be difficult to control.

Drive the tractor with the 3-Point lift arms in the raised position and lock the control lever in the transport detent position to prevent damage to the mower driveline and tongue when turning.

Perform turns with the tractor and mower at slow speeds to determine how the tractor with an attached mower handles a turn. Determine the safe speed to maintain proper control of the tractor when making turns. When turning with a towed implement, the overall working length of the unit is increased. Allow additional clearance for the mower when turning, especially if the wings are lowered.



To avoid overturns, drive the tractor with care and at safe speeds, especially when operating over rough ground, crossing ditches or slopes, and turning corners. Rear tractor tire spacing should be increased when working on inclines or rough ground to reduce the possibility of tipping.

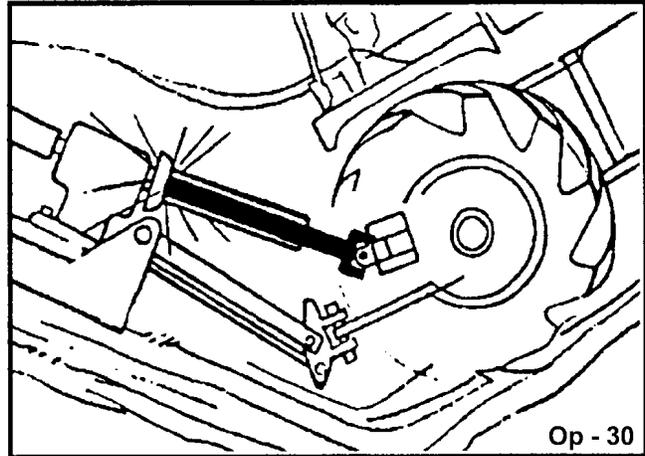


Use extreme caution when operating on steep slopes. Keep the tractor in a low gear when going downhill. DO NOT coast or free-wheel downhill.

OPERATION

9.6 Crossing Ditches and Steep Inclines

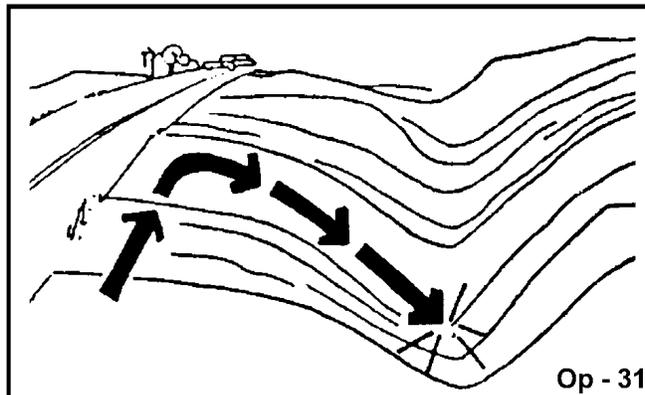
When crossing ditches with steep banks or going up sharp inclines, it is possible that the main driveline inner profile will penetrate into the outer housing to its maximum depth until the assembly becomes solid (driveline is at its extreme shortest length). This type of abusive operation can cause serious damage to the tractor and mower drive by pushing the PTO into the tractor and through the support bearings or downward onto the PTO shaft, breaking it off.



WARNING

Damage resulting from over-collapse of the driveline's inner profile and its outer housing may allow the driveline to come loose from the Tractor which could cause bodily injury to the operator or bystanders and/or extensive damage to the Tractor or Implement. OPS-R-0020 str

When confronted with an incline or ditch, do not approach from an angle which is perpendicular or straight on as damage to or over-collapse of the driveline may occur. OPS-R-0021_A str

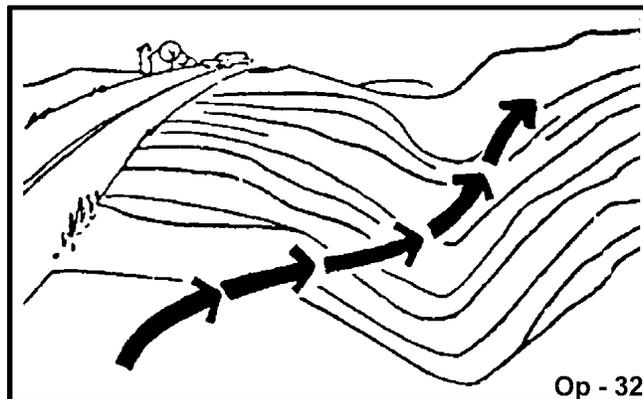


INCORRECT: DO NOT approach ditch straight on

OPERATION

Inclines and ditches should be approached along a line which is at an angle as shown. This type of path will reduce the possibility of over-collapse of the driveline and resulting damage. If the gradient is so steep that such an approach increases the possibility of a tractor roll-over, select an alternate crossing path.

When operating the tractor and mower across slopes and inclines, through ditches, and other uneven terrain conditions, it is important to maintain sufficient deck to ground clearance. Blade contact with the ground may cause soil, rocks and other debris to be thrown out from under the mower resulting in possible injury and/or property damage. Ground contact also produces a severe shock load on the mower drive and to the mower blades resulting in possible damage and premature wear. OPS-R-0022 str



CORRECT: Approach ditch at an angle

10. OPERATING THE TRACTOR AND IMPLEMENT

THE OPERATOR MUST COMPLETELY UNDERSTAND HOW TO OPERATE THE TRACTOR AND IMPLEMENT AND ALL CONTROLS BEFORE ATTEMPTING TO OPERATE.

The operator must read and understand the Safety and Operation Sections of the implement and tractor operator's manuals. These manuals must be read and explained to any operator who cannot read. Never allow someone to operate the implement and tractor without complete operating instructions.

Before starting any operation, the operator must become familiar with the area to be worked in and any obstacles and hazards contained within to ensure safety to the operator, bystanders, and equipment. Special attention should be paid to foreign debris, rough terrain, steep slopes, and passersby and animals in the area. OPS-U- 0015 str

WARNING

Extreme care should be taken when operating near loose objects such as gravel, rocks, wire, and other debris. Inspect the area before mowing. Foreign objects should be removed from the site to prevent machine damage and/or bodily injury or even death. Any objects that cannot be removed must be clearly marked and carefully avoided by the operator. Stop mowing immediately if blades strike a foreign object. Repair all damage and make certain rotor or blade carrier is balanced before resuming mowing. (SGM-05)str



WARNING

Many varied objects, such as wire, cable, rope, or chains, can become entangled in the operating parts of the mower head. These items could then swing outside the housing at greater velocities than the blades. Such a situation is extremely hazardous and could result in serious injury or even death. Inspect the cutting area for such objects before mowing. Remove any like object from the site. Never allow the cutting blades to contact such items. (SGM-06) str

OPERATION

10.1 Foreign Debris Hazards

Before mowing, inspect the area to make sure there are no foreign objects that the mower blades could hit or become entangled with. Remove all foreign objects and debris. If objects are too big to remove, mark them clearly and be sure to prevent the mower blades from contacting them.

If you hit a solid object or foreign debris, stop the mower and tractor at once. Immediately idle the engine speed and disengage the PTO. Wait for all mower rotating motion to stop, then raise the mower and move the tractor and implement off the object. Inspect the area and remove, or mark the location of the debris. Inspect the condition of the mower and make any needed repairs immediately. Make sure the blades are not damaged and the carrier is balanced before resuming operation.

Always wear your seat belt securely fastened and only operate the tractor and mower with the ROPS in the raised position. If the tractor or mower hits a tree stump, rock, or bump, a sudden movement could throw you off of the seat and under the tractor and/or mower. The seat belt is your best protection from falling off the tractor and the ROPS provides protection from being crushed during a tractor roll-over. *OPS-R-0023 str*



Op - 33

Remove Foreign Material



Op-151

Raise Mower over solid objects

OPERATION

10.2 Bystanders/Passersby Precautions

If a bystander comes within 300 feet of the tractor while the mower is being operated, stop the tractor at once, idle the engine and disengage the PTO. Do not engage the PTO again until all bystanders are well past the 300 foot distance. OPS-R-0024 str

In case of emergency, shut down tractor engine, disengage the PTO and wait for all rotating motion to stop. Place the tractor in park position, engage parking brake and remove the key before leaving the operator's seat.



Rotary Mowers are capable under adverse conditions of throwing objects for great distances (300 ft (100 m) or more) and causing serious injury or death. Follow safety messages carefully.



STOP MOWING IF PASSERSBY ARE WITHIN 300 Feet (100 m) UNLESS:

- Front and Rear Deflectors, Chain Guards, or Bands are installed and in good, workable condition;
- Mower sections or Wings are running close to and parallel to the ground without exposed Blades;
- Passersby are outside the existing thrown-object zone;
- All areas have been thoroughly inspected and all foreign material such as rocks, cans, glass, and general debris has been removed.

NOTE: Where there are grass and weeds high enough to hide debris that could be struck by the blades, the area should be: inspected and large debris removed, mowed at an intermediate height, inspected, closely with any remaining debris being removed, and mowed again at desired final height. (This will also reduce power required to mow, reduce wear and tear on the Mower drivetrain, spread cut material better, reduce streaking, and make the final cut more uniform). (SRM-01) str

10.3 Engaging the Power Take Off (PTO)

Before engaging the PTO, make certain that the area is clear of bystanders and passersby. Set the tractor engine speed at approximately 1,000 RPM before engaging the PTO. Shift the PTO control to the on position, and slowly increase the engine speed until the PTO is operating at 540 RPM. If you hear unusual noises or see or feel abnormal vibrations, disengage the PTO immediately. Inspect the mower to determine the cause of the noise or vibration and repair the abnormality.

Be sure to never operate the cutter with the PTO storage support in its upright position. Swing the support down, and out of the way before beginning (Pull type units)

Constant Velocity joints may be operated at angles up to 80 deg, but only for brief periods of time (during turns) and never continuously. (Pull type units)



Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-07) str



Do not put hands or feet under mower decks. Blade Contact can result in death or serious injury. Stay away until all motion has stopped and the decks are securely blocked up. (SGM-09) str



OPERATION

10.4 PTO RPM and Ground Speed

Ground speed for mowing will depend upon the height, type, and density of vegetation to be cut. Recommended speed for efficient mower performance is between 2 and 5 mph (3-8 kph). Operate the mower at its full rated PTO speed to maintain blade speed for a clean cut. Refer to the tractor operator's manual or the tractor instrument panel for the engine speed and gear to provide the required PTO and desired ground speed. Make sure that the mower is operating at its full rated speed before entering the vegetation to be cut. If it becomes necessary to temporarily regulate engine speed, increase or decrease the throttle gradually.

Ground speed is achieved by transmission gear selection and not by the engine operating speed. The operator may be required to experiment with several gear range combinations to determine the best gear and range which provides the most ideal performance from the mower and most efficient tractor operation. As the severity of cutting conditions increase, the ground speed should be decreased by selecting a lower gear to maintain the proper operating PTO speed. *OPS-R-0025 str*



Do not exceed the rated PTO speed for the Implement. Excessive PTO speeds can cause Implement driveline or component failures resulting in serious injury or death. *(SG-26) str*



Mow at the speed that you can safely operate and control the tractor and mower. The correct mowing speed depends on terrain condition and grass type, density, and height of cut. Normal ground speed range is from 2 to 5 mph (3-8 kph). Use slow mowing speeds when operating on or near steep slopes, ditches, drop-offs, overhead obstructions, power lines, or when debris and foreign objects are to be avoided. *(SGM-07)str*

11. OPERATING THE MOWER

The mower is designed to cut vegetative material up to 2" in diameter. Travel at a speed that allows the mower sufficient time to cut through the vegetation and maintain the operating speed at 540 rpm to prevent overloading the mower and tractor and to produce a clean cut. Choose a driving pattern that provides the maximum pass length and minimizes turning. Remember, sharp blades produce cleaner cuts and require less power.

NOTE: Do not operate with tires off the ground.



Fixed Knife Technology is only intended for cutting crop residue and similar dry materials. Always remove all fixed knives when mowing in heavy, damp, or green vegetation. This type of green vegetation can accumulate on the fixed knives and damage the rotary mower blades, which can result in death or serious injury. *(SRM-08) str*



Under certain conditions, tractor tires may roll some grasses down preventing them from being cut at the same height as the surrounding area. When this occurs, reduce the tractor ground speed while maintaining the operating speed of the mower. A slower ground speed will permit grasses to at least partially rebound and be cut. Taking a partial cut and/or reversing the direction of travel may also help produce a cleaner cut.

Avoid mowing in the reverse direction when possible. In situations where the mower must be backed to access areas to be cut, make sure there are no persons or other foreign debris behind the mower before mowing in reverse. When mowing in reverse, operate the tractor and mower at a much reduced ground speed to ensure control is maintained of the tractor and cutter. *OPS-R-0026_T str*

OPERATION

WARNING

Do not mow with two machines in the same area except with Cab tractors with the windows closed. (SGM-11)str

WARNING

Mow only in conditions where you have clear visibility in daylight or with adequate artificial lighting. Never mow in darkness or foggy conditions where you cannot clearly see at least 100 feet (30 m) in front and to the sides of the tractor and mower. Make sure that you can clearly see and identify passersby, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris and foreign objects. If you are unable to clearly see these types of items discontinue mowing. (SGM-1) str

WARNING

If a material blockage occurs in the inlet or discharge areas of the mower, **SHUT DOWN TRACTOR ENGINE**, disengage the PTO and wait for all rotating motion to stop. Place the tractor in park position, engage the parking brake and remove the key before leaving the operator's seat. Clear the blockage before proceeding with mowing. Be sure to keep feet and hands clear of the mower blades. If you raise the mower or mower wing to access the blockage, engage the wing lock up latch and securely block up the mower before placing any parts of the body underneath the mower.

WARNING

Avoid mowing in reverse direction when possible. Check to make sure there are no persons behind the mower and use extreme care when maneuvering in reverse. Mow only at a slow ground speed where you can safely operate and control the tractor and mower. Never mow an area that you have not inspected and removed debris or foreign material. (SGM-08) str

WARNING

Follow these guidelines to reduce the risk of equipment and grass fires while operating, servicing, and repairing the Mower and Tractor:



- Equip the Tractor with a fire extinguisher in an accessible location.
- Do Not operate the Mower on a Tractor with an under-frame exhaust.
- Do Not smoke or have an open flame near the Mower and Tractor.
- Do Not drive into burning debris or freshly burnt areas.
- Ensure slip clutches are properly adjusted to prevent excessive slippage and plate heating.
- Never allow clippings or debris to collect near drivelines, slip clutches, and gear-boxes. Periodically shut down the Tractor and Mower and clean clippings and collected debris from the mower deck. (SGM-12) str

OPERATION

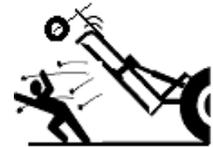
Never raise the mower entirely while the blades are turning. If the mower must be raised higher than 12" from ground level, disengage the tractor PTO and wait for all mower rotation to come to a complete stop before proceeding to raise the mower. NEVER raise the mower wings while the blades are turning.

When turning, the angle between the tractor and mower should not be so great that a clattering of the U-joints occurs. Sharp turns can cause premature failure of the joints and place pressure on the tractor PTO shaft and could cause extensive mechanical damage to the mower and tractor.

If the mower is operated in conditions that require frequent sharp turning, the mower should be equipped with a Constant Velocity driveline. CV joints enable the tractor PTO shaft and mower driveline to be angled safely up to 80 degrees with no damage to the mower or driveline.



WARNING Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-07) str



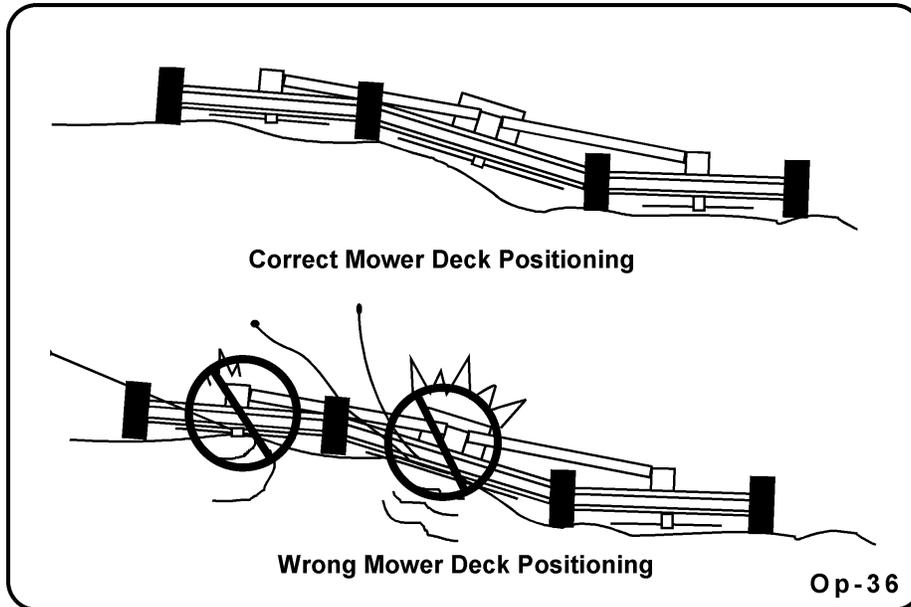
Stay alert and watch for trees, power lines, posts, signs, and all other overhead and ground obstructions while you are mowing. Use extreme care to avoid hitting these types of obstructions.



OPERATION

When mowing across uneven areas such as road shoulders, ditch edges, and other uneven terrain, position mower so that one support wheel is near the highest point to prevent blades from cutting into gravel or dirt which can cause rapid blade wear and extremely severe shock loads on the drivetrain resulting in rapid wear or damage to these components. Blades contacting the ground may cause objects to be thrown out from under the mower deck. Always avoid operating the mower at a height or position which may cause the blades to contact the ground. Cutting into the berm or edge of the ditch will cause abnormal and accelerated blade wear and possible blade component failure.

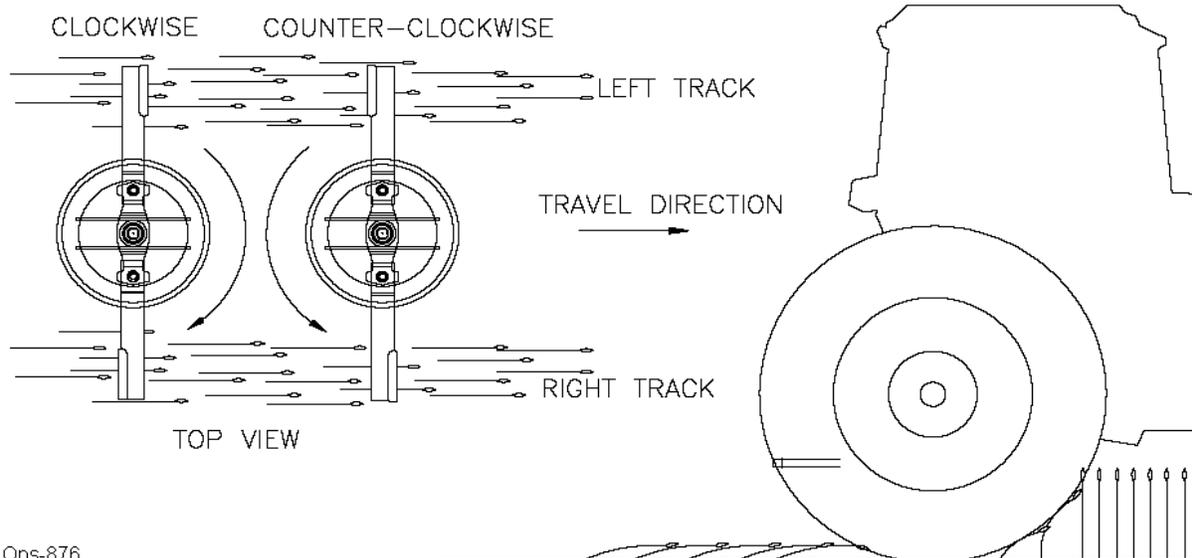
OPERATION



OPERATION

11.1 Roadway Cutting - Blade Rotation

On roadway cutting the grass tends to be thicker and longer as you go down the ditch, away from the road. As the tractor drives through the uncut grass, the grass is tramped forward and down by the tractor tires. Ideally the blade rotation should pick up or stand up the tramped grass as it cuts it.



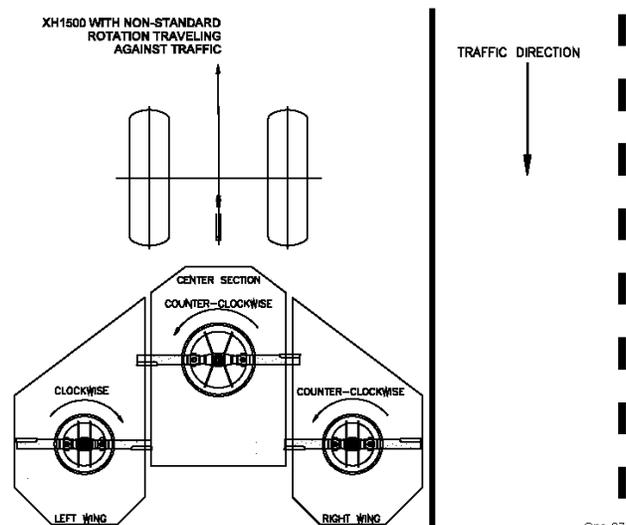
Ops-876

In the example shown, the tractor is traveling to the right, the grass will be tramped down in that direction. A clockwise rotating blade set will do a better job picking up and cutting the grass tramped in the right track than in the left track. The counter-clockwise rotating blade set will do a better job picking up and cutting the left track than it will the right track.

11.2 Roadway Cutting - Against Traffic

NOTE: The following description is for a single lane highway (one lane of traffic in each direction).

If the FX320 with standard rotation is used "against traffic", it may leave a strip of longer grass in the left tire track. If the cutter is to be consistently used for cutting "against traffic", it is recommended that the center section gearbox and blades be changed to a counter-clockwise rotation. This will help pick up the left tire track which is lower in the ditch, where the grass tends to be heavier.



Ops-877

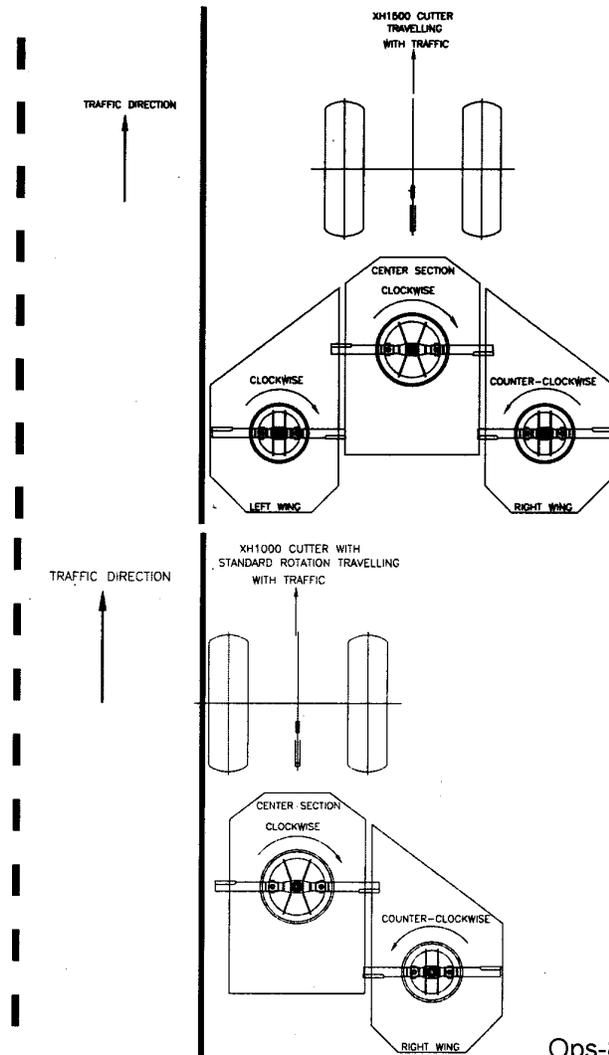
OPERATION

11.3 Roadway Cutting - With Traffic

NOTE: The following descriptions are for a single lane highway (one lane of traffic in each direction).

FX-320 standard blade rotation is designed for optimum cutting "with traffic". With traffic means cutting in the right ditch with traffic on the left. The wing blade rotations (right - counter-clockwise, left - clockwise) help to lift or stand up the grass, that has been trampled by the tractor, while it is being cut. The clockwise center section rotation helps to lift the grass in the right track, which is lower in the ditch, where the growth tends to be heavier. This blade rotation set up directs material into the ditch away from the road.

FX-320 standard blade rotation is designed for optimum cutting "with traffic". With traffic means cutting in the right ditch with traffic on the left. Both the clockwise center rotation and counter-clockwise right wing rotation pick up the tramped grass in the right tractor tire track.



Ops-878

OPERATION

OPERATION

11.4 Right of Way (Highway) Mowing

- **USE DOUBLE CHAIN GUARDS** for highway, right-of-way, parks, greenbelt mowing, or all other mowing where human dwellings, vehicles, or livestock could be within 300 feet of the mower.
- No shielding is 100% effective in preventing thrown objects. To Reduce Possibility of Injury:
 1. **MAINTAIN MOWER SHIELDING** in good operational condition.
 2. **DAILY INSPECT** the condition of the Thrown Object Guards, mower Side Skirts, and skid shoes: Replace or repair worn or damaged guards.
 3. **DAILY INSPECT** the condition of the Blades and Blade Bolts. Replace any cracked, worn, bent or damaged blades. Always replace blade bolts and nuts when replacing blades. Make sure the blade bolts are properly tightened.
 4. **RAISE CUTTING HEIGHT** to **6 INCHES** minimum.
 5. **INSPECT AREA** thoroughly before mowing to **REMOVE** potential **THROWN OBJECT HAZARDS**.
 6. **NEVER ALLOW BLADES** to **CONTACT SOLID OBJECTS** like wire, rocks, posts, curbs, guardrails, or ground while mowing.



ROTARY MOWERS CAN THROW OBJECTS 300 FEET OR MORE UNDER ADVERSE CONDITIONS.

TO AVOID SERIOUS INJURY OR DEATH TO OPERATOR OR BYSTANDERS FROM THROWN OBJECTS:

INSPECT AREA FOR POTENTIAL THROWN OBJECTS BEFORE MOWING:

- **REMOVE** debris, rocks, wire, cable, metal objects and other foreign material from area.

Wire, cable, rope, chains and metal objects can be thrown or swung outside deck with great velocity:

1. **MARK** objects that cannot be removed.
2. **AVOID** these objects when mowing.

STOP MOWING IF PASSERSBY IS WITHIN 300 FEET UNLESS:

- All **THROWN OBJECT SHIELDING** including Front and Rear Deflectors, Chain Guards, Steel Guards, Bands, Side Skirts and Skid Shoes are in place and in good condition when mowing.
- Mower sections or wings are adjusted to be close and parallel to ground without exposing blades.
- **MOWING AREA** has been inspected and foreign materials and debris have been removed.
- **PASSERSBY** are inside enclosed vehicle. *OPS-U-0040 str*

OPERATION

11.5 Shutting Down the Implement

To shut down the implement, first bring the tractor to a complete stop. Then slow down the implement by reducing the engine speed before disengaging the PTO. Wait for all motion to stop before proceeding to drive or shut down the tractor.

Park the tractor on a level surface, place the transmission in park or neutral and apply the parking brake, lower the attached implement to the ground, shut down the engine, remove the key, and wait for all motion to come to a complete stop before exiting the tractor. *OPS-U- 0016_B str*



12.DISCONNECTING THE MOWER FROM THE TRACTOR

Before disconnecting the mower, the PTO must be disengaged and blade rotation at a complete stop. Move the mower to a level storage location and lower the center section and both wings to the ground. If the mower will be stored with the wings in the raised position, install both wing transport lock braces. If the mower is not resting securely on the ground, block the mower up securely before attempting to disconnect it from the tractor.

Use extreme care to keep feet and hands from under the mower and clear of any pinch points. *OPS-R-0030 str*

⚠ DANGER

Always shut the Tractor completely down, place the transmission in park, and set the parking brake before you or anyone else attempts to connect or disconnect the Implement and Tractor hitches. (S3PT-15) str

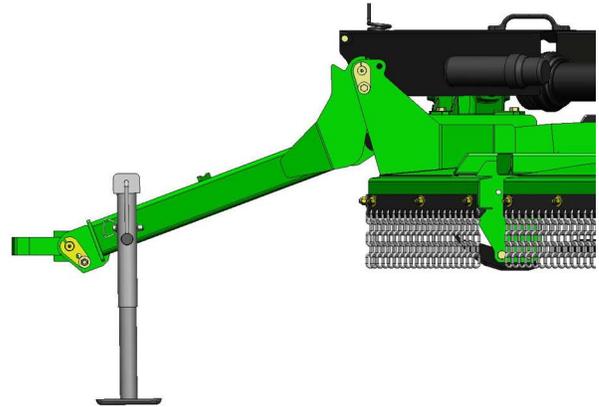
⚠ WARNING

Never unhitch without using the Tongue Jack. The Tongue is very heavy. Attempting to lift the Tongue without using the Tongue Jack could cause strains or other injury. Allowing the tongue to fall suddenly and unexpectedly could result in crushing injury. Use the Tongue Jack for lifting the Implement only. Overloading the Tongue Jack can cause failure with possible serious bodily injury or even death. (STI-04) str

OPERATION

When disconnecting the implement, the tractor should be completely shut down. Relieve hydraulic pressure by moving the control levers back and forth several times.

Remove the jack from its storage location on the wing and mount it to the hitch using the stub provided. Lower the parking jack and raise the implement until the tongue clevis is no longer resting on the drawbar and is supported completely by the jack. Also make sure the parking jack is resting squarely on a hard level surface. Remove the pin. OPS-R-0031_M str



Ops-1274

WARNING

NEVER ROTATE THE JACK WITH WEIGHT ON IT. Attempting to rotate a jack under load can cause the implement to fall causing damage or possible serious injury.

Remove the hydraulic hoses from the tractor and secure to the implement in the provide hose holder on the hitch to avoid contact with dirt.

Remove the driveline from the tractor PTO shaft. Place the driveline in the storage bracket to prevent it from contacting mud or dirt which can contaminate the universal joint bearings and shorten the life of the driveline.

After the driveline has been removed from the tractor, place the PTO master shield back in the operating position.



Ops-1511

WARNING

Do not operate this Equipment with hydraulic oil or fuel leaking. Oil and fuel are explosive and their presence could present a hazard. Do not check for leaks with your hand! High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. To check for a hose leak, SHUT the unit ENGINE OFF and remove all hydraulic pressure. Wear oil impenetrable gloves, safety glasses and use cardboard to check for evidence of oil leaks. If you suspect a leak, REMOVE the HOSE and have it tested at a Dealer. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure. (SG-15) str



OPERATION

⚠ WARNING

Never unhitch without using the jack. The hitch is very heavy. Attempting to lift the hitch without using the jack could cause strains or other injury. Allowing the hitch to fall suddenly and unexpectedly could result in crushing injury. Use the jack for lifting the Mower only. Overloading the jack can cause failure with possible serious bodily injury or even death.

13.MOWER STORAGE

It is recommended that the mower be stored with the center section and both wings fully lowered to ground level. If the mower is stored with the wings in the raised position, select a level area and install wing transport braces to prevent the wings from falling BEFORE disconnecting the mower hitch from the tractor.

Properly preparing and storing the mower at the end of the season is critical to maintaining its appearance and to help ensure years of dependable service. The following are suggested storage procedures:

- Thoroughly clean all debris off the mower to prevent damage from rotting grass and standing water.
- Lubricate all mower grease points and fill gearbox oil levels as detailed in the maintenance section.
- Tighten all bolts and pins to the recommended torque.
- Check the mower for worn and damaged parts. Perform repairs and make replacements immediately so that the mower will be ready for use at the start of the next season.
- Store the mower in a clean, dry place with the mower housing resting securely on blocks or at ground level.
- Keep the driveline yoke from sitting in water, dirt and other contaminants.
- Use spray touch-up enamel where necessary to prevent rust and maintain the appearance of the mower.



It is critical that driveline clutches slip when an obstacle or heavy load is encountered to avoid mower and/or tractor damage. If the mower sits outside for an extended period of time or is exposed to rain and/or humid air, the clutch lining plates must be inspected to ensure they are not frozen together from rust or corrosion. If the mower has been exposed to such conditions, at the start of each mowing season, and any time it is suspected that the slip clutch plates may be frozen together, readjust the slip clutch as detailed in Seasonal Clutch Maintenance of the maintenance section in this manual. *OPS-R-0032_F str*

⚠ DANGER

Never allow children to play on or around Tractor or Implement. Children can slip or fall off the Equipment and be killed or injured. Inadvertent contact with controls can cause the Implement to shift or fall crushing themselves or others. (SG-25) str

OPERATION

14. TRANSPORTING THE TRACTOR AND IMPLEMENT

Inherent hazards of operating the tractor and implement and the possibility of accidents are not left behind when you finish working in an area. Therefore, the operator must employ good judgment and safe operation practices when transporting the tractor and implement between locations. By using good judgment and following safe transport procedures, the possibility of accidents while moving between locations can be substantially minimized. *OPS-U- 0017str*



Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in death or serious injury. *(SG-10)str*



Before transporting the tractor and mower, idle the tractor engine, disengage the PTO and wait for all mower moving parts to come to a complete stop. Once all mower parts are completely stopped, raise the mower to transport height.

NOTE: *When raising the mower, maintain 1" clearance between the driveline and mower deck. If additional mower deck height is needed for safe transport, disconnect the driveline from the tractor and secure its end to the mower deck. The mower can then be raised to the maximum lift height. OPS-R-0033 str*



If the tractor's hydraulic pump is not independent of the tractor PTO, or if the tractor PTO has to be run to have hydraulic power, disconnect the mower driveline from the tractor PTO output shaft. Secure the driveline to the mower deck to prevent driveline damage or loss during transport. *OPS-R-0034 str*



OPERATION

Before transporting the tractor on a public roadway or boarding a trailer for transport, the tractor brake pedals should be locked together. Locking the pedals ensures that both wheels brake simultaneously while stopping, especially when making an emergency stop.

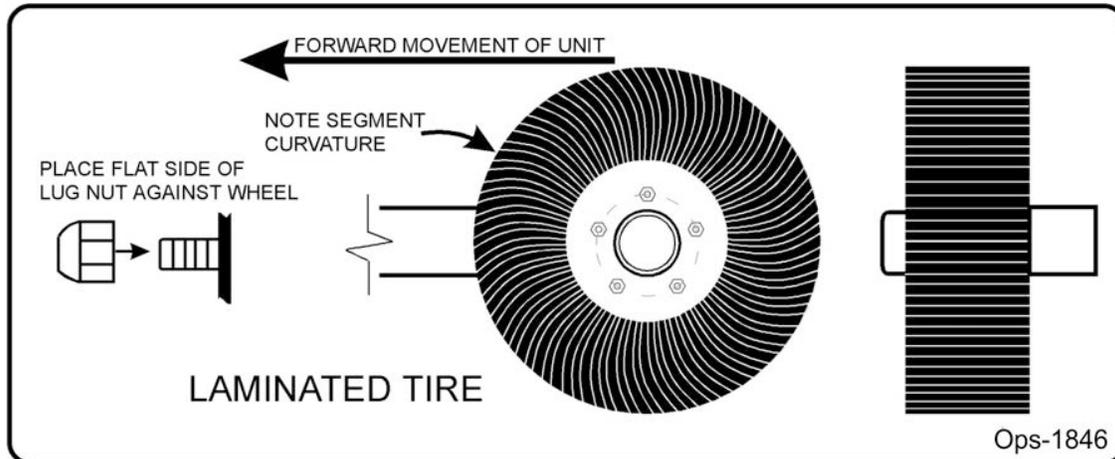


Use extreme caution and avoid hard applications of the tractor brakes when towing heavy loads at road speeds. For towing speeds, refer to **Tire Speed / Inflation Pressure** chart in the Tires and Wheels section. *OPS-U-0018_S1 str*

OPERATION

14.1 Tires and Wheels

Laminated Sectional Tires are designed for conditions where puncture proof performance is required and the mower will not be transported for long distances on roadways. Transport speed for laminated tires should not exceed 15 MPH. Excessive speed can cause damage to the machine and tire sections. Laminated tires must be installed with the laminations orientated as shown.



Foam Filled used Airplane Tires are ideal for conditions where a puncture proof tire is needed and the mower is frequently transported between locations.

Pneumatic Tires Implement tires are ideal for frequent long distance towing, however, they are not puncture proof and are not recommended for mowing brushy areas or other conditions that could damage the tires. Check side wall of tire for proper inflation pressure. **DO NOT** over-inflate. *OPS-R-0035 str*

OPERATION

Tire Size and Matching Requirements

Laminated Sectional Tires are designed for conditions where puncture proof performance is required and the mower will not be transported for long distances or at high speeds.

Foam Filled Aircraft Tires are also designed for conditions where puncture proof performance is required. These tires provide better service where transporting is frequent and high speeds can be avoided.

Note: Overheating a foam filled aircraft tire will cause the foam to liquefy and leak from the tire. The liquid will not turn back to foam when tire is cooled down and your tire will once again be prone to punctures.

Pneumatic Aircraft Tires and Pneumatic Implement Tires are ideal for frequent long distance towing. However, they are not puncture proof and are not recommended for mowing brushy areas or other conditions that could damage tires

All tires will generate heat during transport, some more than others depending upon tire construction. The amount of heat being generated by a tire depends on the speed of travel and the load on the tire. The amount of heat build up in that tire is dependent upon the travel time. Caution must be taken to prevent any tire from overheating. The tires should be checked periodically during transport. If the tires are beginning to overheat, they should be allowed to cool and the travel speed should be lowered.

Faster than recommended transport speed during delivery of a machine to a customer or general transport from job site to job site can cause serious tire damage and potential failure.

Please see chart below for tire speed ratings and recommended inflation pressures.

Tire Speed / Inflation Pressure

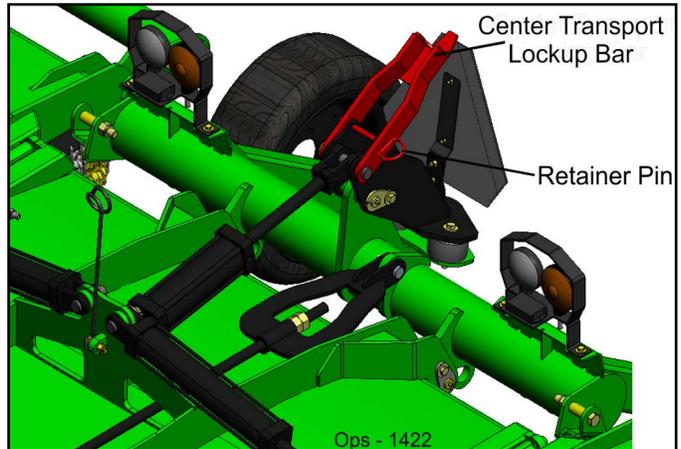
TIRE ASSEMBLY	DESCRIPTION	TRAVEL SPEED	INFLATION PRESSURE
210-192	Solid Laminated Tire, 26	20 kph or 12 mph	N/A
210-511	Light Truck Tire	40 kph or 25 mph	65 PSI
210-540	Severe Duty	40 kph or 25 mph	40 PSI
210-540F	Severe Duty (Foam Filled)	40 kph or 25 mph	N/A
210-560	Stubble Proof Tire	40 kph or 25 mph	65 PSI

OPERATION

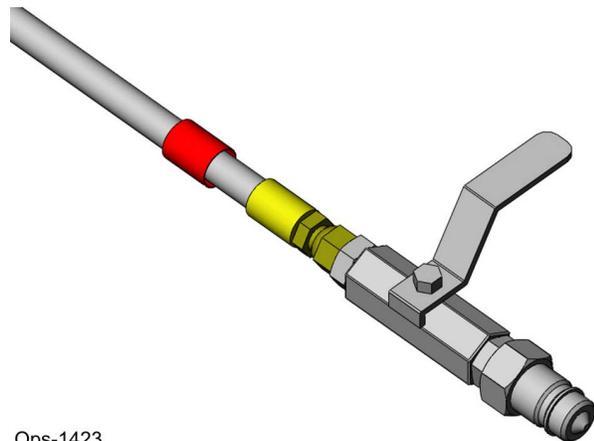
OPERATION

14.2 Locking the Cutter For Transport

A transport lock bar is provided for the center lift cylinder and a ball valve is provided on the hydraulic wing lift circuit. When the transport lock bar is used on the center lift cylinder it prevents the mower from suddenly dropping due to a hydraulic cylinder or hose failure. When the ball valve is actuated it prevents oil flow in the hydraulic wing lift circuit so the wings of the mower cannot be activated accidentally.



FULLY extend the center lift cylinder so that the transport lockup bar can fit around the center cylinder rod. Fully retract the wing cylinders until the wings are in the transport position. Once the wings are in the transport position actuate the handle of the ball valve so the handle is 90 degrees to the ball valve body. This will prevent any oil flow to wing lift cylinders.



14.3 Transporting on Public Roadways

Extreme caution should be used when transporting the tractor and mower on public roadways. The tractor must be equipped with all required safety warning features including a SMV emblem and flashing warning lights to alert drivers of the tractor's presence. Remember that roadways are primarily designed for automotive drivers and most drivers will not be looking out for you, therefore, you must look out for them. Check your side view mirrors frequently and remember that vehicles will approach quickly because of the tractor's slower speed. Be extremely cautious when the piece of equipment that you are towing is wider than the tractor tire width and/or extends beyond your lane of the road.

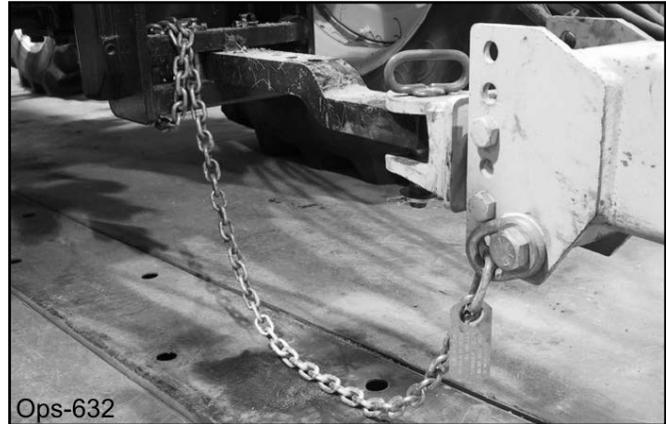
If the rotary cutter obscures the tractor warning or tail lights, the rotary cutter **MUST** be equipped with a transport light kit. See the 'Assembly Section' for installation instructions.

Check local highway regulations concerning moving machinery on highways. *OPS-R-0036_A str*

OPERATION

14.4 Safety Chain

Attach safety chain to rotary cutter and tractor. An attachment point on the hitch is provided on the side of the frame. Fasten the large loop of the safety chain between the hitch and flat washer using the bolt. Refer to your tractor operator's manual for complete instructions to attach the other end of the chain to tractor. Adjust length to allow only enough slack as is needed for turning. Lock hook on chain. Ensure chain rating is equal to or greater than the gross weight of the towed equipment.



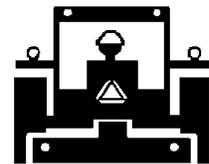
WARNING

Only tow the Implement behind a properly sized and equipped Tractor which exceeds the weight of the Implement by at least 20%. DO NOT tow the Implement behind a truck or other type of vehicle. Never tow the Implement and another Implement connected in tandem. Never tow the Implement at speeds over 20 MPH. (STI-06)str



WARNING

Make certain that the "Slow Moving Vehicle" (SMV) sign is installed in such a way as to be clearly visible and legible. When transporting the Equipment use the Tractor flashing warning lights and follow all local traffic regulations. (SG-6)str



DANGER

Never allow children or other persons to ride on the Tractor or Implement. Falling off can result in death or serious injury. (SG-10)str



The SMV (Slow-Moving Vehicle) emblem is universal symbol used to alert drivers of the presence of equipment traveling on roadways at a slow speed. SMV signs are a triangular bright orange with reflective red trim for both easy day and night visibility. Make sure the SMV sign is clean and visible from the rear of the unit before transporting the tractor and implement on a public roadway. Replace the SMV emblem if faded, damaged, or no longer reflective. OPS-U- 0020str



OPERATION

OPERATION

Make sure that all tractor flashing warning lights, headlights, and brake/tail lights are functioning properly before proceeding onto public roads. While newer model tractors have plenty of lighting to provide warning signals and operating lighting, most older models are only equipped with operating lights. Consult an authorized tractor dealer for lighting kits and modifications available to upgrade the lighting on older tractor models. *OPS-U- 0021str*



When operating on public roads, have consideration for other road users. Pull to the side of the road occasionally to allow all following traffic to pass. Do not exceed the legal speed limit set in your country for agricultural tractors. Always stay alert when transporting the tractor and implement on public roads. Use caution and reduce speed if other vehicles or pedestrians are in the area. *OPS-U- 0022 str*



Reduce speed before turning or applying the brakes. Ensure that both brake pedals are locked together when operating on public roads. *OPS-U- 0023 str*



OPERATION

14.5 Hauling the Tractor and Implement

Before transporting a loaded tractor and implement, measure the height and width dimensions and gross weight of the complete loaded unit. Ensure that the load will be in compliance with the legal limits set for the areas that will be traveled through.

Use adequately sized and rated trailers and equipment to transport the tractor and implement. Consult an authorized dealer to determine the proper equipment required. Using adequately sized chains, heavy duty straps, cables and/or binders, securely tie down both the front and rear of the tractor utilizing the proper tie down locations as specified by the tractor manufacturer.

Arrange the chains so that when tightened, the chains are pulling downward and against themselves. Carefully tighten the securing chains or other fasteners using boomers or binders to apply maximum tension. Use extreme care when attaching and removing the securing devices as the extreme tension involved when released has the potential to inflict serious injury.

While hauling the tractor and implement, make occasional stops to check that the tractor and implement have not moved or shifted and that the securing chains have maintained tension. If during transport a hard braking, sharp turning, or swerving action was performed, stop at the next safe location to inspect the security of the load.

OPERATION

OPERATION

15. TROUBLESHOOTING GUIDE

Problem	Possible Cause	Remedy
Excessive Vibrations	Check gearbox bolts.	Tighten if loose.
	Check for loose nuts on Blade holder and Blades	Tighten if loose.
	Check for bent output shaft. If shaft is bent oil will normally leak from the bottom seal.	Replace shaft if bent.
	Check to see if blades are free swinging.	Free blades so they swing
	Check for even wear on each blade tip. Were both blades	Weigh blades. Weight should be within 1 oz. Always replace both blades changed at the same time?
	Blade broken.	Replace blades, in sets.
	Blade carrier bent.	Replace carrier.
	Blade hub not properly seated on shaft	Remove hub, check tapered spline shaft, clean and replace.
	New blade or bolts matched.	Replace blades or bolts in sets.
	Drivelines not phased correctly. Implement & tractor yokes must be in line.	Replace Drivelines.
Gearbox Overheating	Low on lubricant.	Fill to level plug.
	Improper type of lubricant.	Replace with NLGI 000 lubricant.
	Excessive trash buildup around the gearbox.	Remove trash.
	Bearing or gears setup improperly.	Consult your dealer.
Gearbox Noisy	Rough gears.	Run in gear or change gears.
	Worn bearing.	Replace bearing.

OPERATION

Problem	Possible Cause	Remedy
Gearbox Leaking	Damaged oil seal.	Replace seal.
	Bent shaft.	Replace oil seal and shaft.
	Shaft rough in oil seal area.	Replace or repair shaft.
	Oil seal installed wrong.	Replace seal.
	Oil seal not sealing in the housing on the OD of the seal.	Replace seal or use sealant.
	Oil level too high.	Drain oil to proper level.
	Sand hole in casting.	Replace castings or gearbox.
	Gasket damaged.	Replace gasket.
	Bolts loose.	Tighten bolts.
Clutch Slips Excessively	Clutch linings badly worn or plates warped.	Repair clutch per maintenance section of manuals.
	Too much power for clutch.	Reduce ground speed and material intake.
	Oil on facings.	Replace facings.
	Friction facings glazed.	Clean with emery cloth.
Uneven Cut	Excessive ground speed.	Reduce ground speed.
	Blades worn, dull or bent.	Replace blades. (Refer to Maintenance Section)
	Mower not level side to side.	Adjust level. (Refer to Assembly Section)
	Improper height adjustment.	Adjust mower height. (Refer to Assembly Section)
	Low tractor tire pressure on one side.	Adjust tire pressure. (Refer to Tractor Owner's Manual)
	Turning too fast.	Reduce ground speed when turning.
	Tractor tires push grass down.	Adjust tractor wheel spacing. (Refer to Operation Section).
	Damaged mower pan.	Repair or replace as necessary.
Uncut Material	Excessive ground speed.	Reduce ground speed.
	RPM too low.	Use full PTO speed. (Refer to tractor's Operation Manual)
	Improper blade for direction of cut.	Install blades so rotation is correct.

OPERATION

Problem	Possible Cause	Remedy
Poor Shredding	Excessive ground speed.	Raise the front of the mower relative to the rear to hold and circulate material longer. (Refer to Operation Section - Setting the Mower Deck Height)
	Cutting too high.	Lower cutting height. (Refer to Operation Section - Setting the Mower Deck Height)
Windrowing or Uneven Material Distribution	Material heavy and lush.	Raise front of mower relative to the rear. (Refer to Operation Section - Setting Mower Deck Height)
	Excessive ground speed.	Reduce ground speed.
	Conditions are too wet.	Wait for conditions to dry. Reduce ground speed.

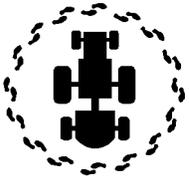
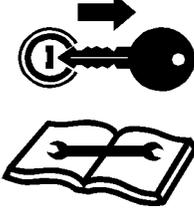
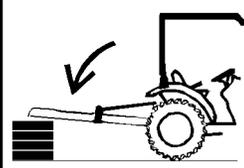
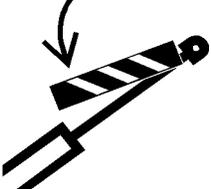
MAINTENANCE SECTION

Maintenance Section 5-1

MAINTENANCE

MAINTENANCE

HAZARDS WITH MAINTENANCE OF IMPLEMENT

				
Periodically inspect all moving parts, lubricate drivelines, and tighten all fasteners	Stop engine remove key before conducting maintenance	Block up implement before servicing Use large blocks on soft or wet soil	Engage cylinder transport locks	Inspect Blades for damage or cracks

WARNING AVOID DEATH OR SERIOUS INJURY FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION IN PERFORMING PROPER SERVICE, REPAIRS AND MAINTENANCE.

BEFORE PERFORMING SERVICE, REPAIRS AND MAINTENANCE ON THE IMPLEMENT:

SECURE EQUIPMENT FOR SERVICE

BLOCK OUT POTENTIAL ENERGY HAZARDS; Rotating Parts, Raised Components, Hydraulic Pressure.

- **STOP ENGINE and PTO, engage parking brake and allow all moving parts to stop and remove key before dismounting from tractor seat.**
- **PLACE** implement on ground or securely block up raised equipment. Use large blocks on soft or wet soil.
- **SECURELY LATCH and LOCK** raised implement wings.
- **BLOCK UP IMPLEMENT TONGUE** with large blocks and tongue jack. DO NOT crawl or work under implement supported only by tongue jack.
- Be sure to park on level ground to a maximum of 10% ground slope.
- **PUSH and PULL** Remote Hydraulic Cylinder lever to relieve hydraulic pressure.
- **DISCONNECT IMPLEMENT Hydraulic HOSES from tractor.**
- **DISCONNECT IMPLEMENT driveline** from tractor PTO Shaft.

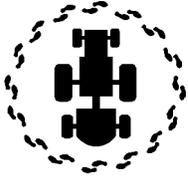
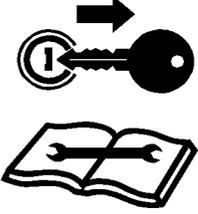
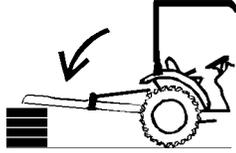
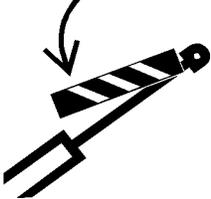
WEAR SAFETY GLASSES, PROTECTIVE GLOVES and follow **SAFETY PROCEDURES** when performing service, repairs and maintenance on the implement:

- Always **WEAR** protective **GLOVES** when handling chemicals or worn component with sharp edges.
- Always **WEAR GLOVES** and **SAFETY GLASSES** when servicing components
- **AVOID CONTACT** with hot hydraulic oil tanks, pumps, motors, valves and hose connection surfaces.
- **SECURELY** support or **BLOCK UP** raised implement, framework and lifted components before working underneath equipment.
- **STOP** any implement movements and **SHUT-OFF TRACTOR** engine before doing any work procedures.
- **USE** ladder or raised stands to reach high equipment areas inaccessible from ground.
- **ENSURE** good footing by standing on solid flat surfaces when getting on implement to perform work.
- **FOLLOW** manufacturer's instructions in handling oils, solvents, cleansers, and other chemical agents.
- **DO NOT** change any factory-set hydraulic calibrations to avoid component or equipment failures.
- **DO NOT** modify or alter implement, functions or components.
- **DO NOT WELD** or repair rotating mower components. These may cause vibrations and component failures being thrown from mower. *PN HM02 str*

MAINTENANCE

MAINTENANCE

HAZARDS WITH MAINTENANCE OF IMPLEMENT (CONTINUED)

				
<p>Periodically inspect all moving parts, lubricate drivelines, and tighten all fasteners</p>	<p>Stop engine remove key before conducting maintenance</p>	<p>Block up implement before servicing Use large blocks on soft or wet soil</p>	<p>Engage cylinder transport locks</p>	<p>Inspect Blades for damage or cracks</p>

⚠ WARNING AVOID DEATH OR SERIOUS INJURY FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION IN PERFORMING PROPER SERVICE, REPAIRS AND MAINTENANCE.

PERFORM SERVICE, REPAIRS, LUBRICATION AND MAINTENANCE OUTLINED IN IMPLEMENT MAINTENANCE SECTION:

- **INSPECT** for loose fasteners, worn or broken parts, leaky or loose fittings, missing or broken cotter keys and washers on pins, and all moving parts for wear.
- **REPLACE** any worn or broken parts with authorized service parts.
- **LUBRICATE** unit as specified by lubrication schedule.
- **NEVER** lubricate, adjust or remove material while it is running or in motion.
- **TORQUE** all bolts and nuts as specified.

BLADE INSPECTION:

- **REPLACE** bent, damage, cracked or broken blades immediately with new blades.
- **AVOID** blade failures and thrown broken blades. **DO NOT** straighten, weld, or weld hard-facing blades.

SAFETY SHIELDS, GUARDS AND SAFETY DEVICES INSPECTION:

- **KEEP** all Deflectors, Chain Guards, Steel Guards, Gearbox Shields, and PTO integral shields, Bands, Side Skirts and Skid Shoes in place and in good condition.
- **REPLACE** any missing, broken or worn safety shields, guards and safety devices.

⚠ WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov PN HM02-A

MAINTENANCE

PARTS INFORMATION

Schulte Products use balanced and matched system components for blade carriers, blades, cuttershafts, knives, knife hangers, rollers, drivetrain components, and bearings. These parts are made and tested to Schulte Industry specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce the performance, void Schulte warranties, and present a safety hazard. Use genuine Schulte parts for economy and safety. (SPSI-1) str

SEE YOUR SCHULTE DEALER

Before operating your Rotary Cutter, make sure it is properly lubricated and thoroughly inspected. Only a minimum of time and effort is required to regularly lubricate and maintain this machine to provide long life and trouble free operation.



WARNING Always disengage the PTO before raising the Rotary Cutter for transporting or making adjustments.

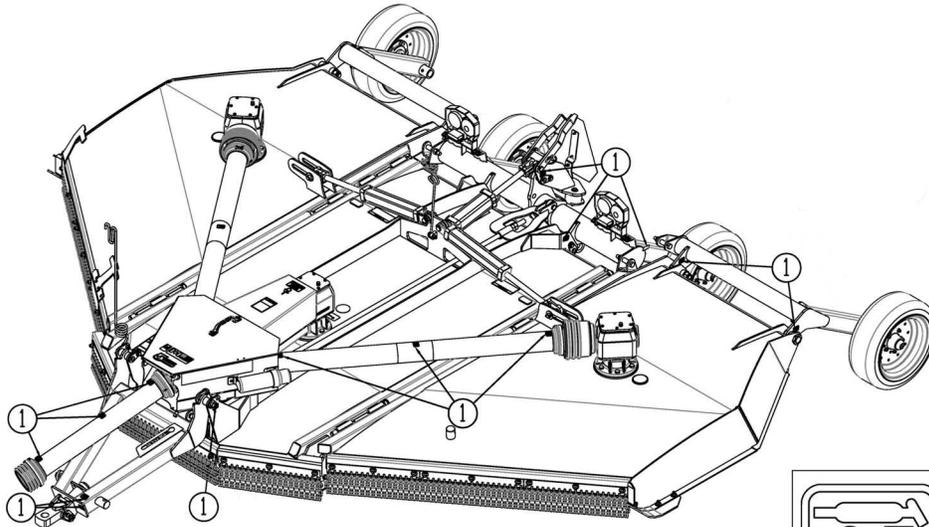
NOTE: *Some guards and shields have been removed from the illustrations and pictures for instructional clarity. DO NOT operate implement without all shields and guards in place and in good condition.*

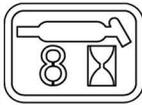
LUBRICATION

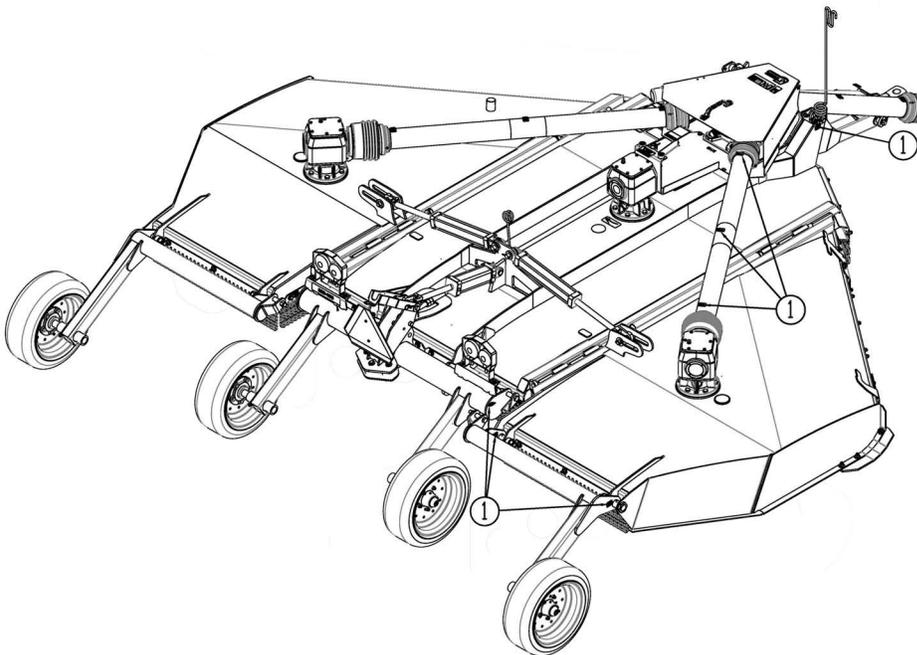
Grease points around the cutter will be identified by one of the following greasing decals. In some cases, multiple grease points may be identified by a single decal if they are close together and they require the same greasing schedule.

MAINTENANCE

Mower Grease Points



 Grease Every 8 Hours



Mnt-R-0471

MAINTENANCE

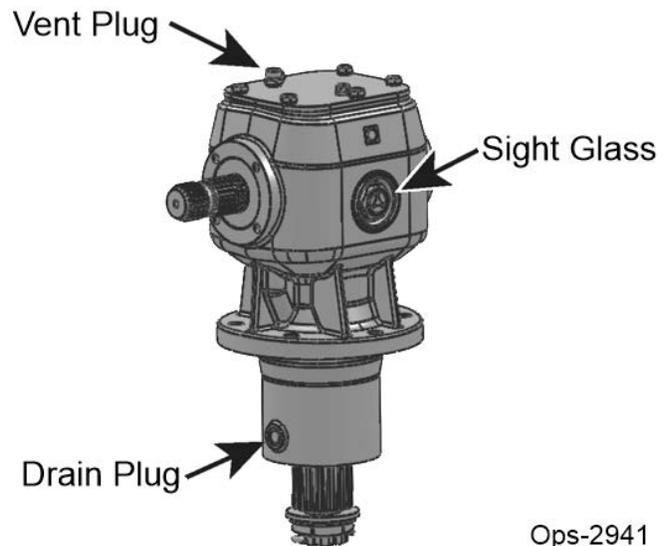
MAINTENANCE

LUBRICATION

Gearbox

Procedure for refilling right angle gearbox:

1. Park unit on a level surface and lower the wings. Install the center lock pin and block the unit to prevent falling or rolling.
2. From under the cutter, remove the blade carrier to access the drain plug.
3. Remove the drain plug and drain out oil.
4. Reinstall the drain plug and blade carrier.
5. Remove the vent plug/ dipstick.
6. Fill gearbox until oil level reaches halfway up the sight glass. Capacity is approximately 4.8 liters (5.1 qt.). Do not screw in dipstick when checking oil level.
7. Reinstall vent plug/ dipstick. Dispose of old oil in accordance with the local regulations.



Ops-2941

NOTE: Replace oil in all gearboxes after the first 50 hours of operation then yearly or maximum of 300 hours.

Check gearbox oil level frequently. Steady loss of oil will indicate damaged seals, which should be replaced immediately to prevent ruining the gearbox.

NOTICE

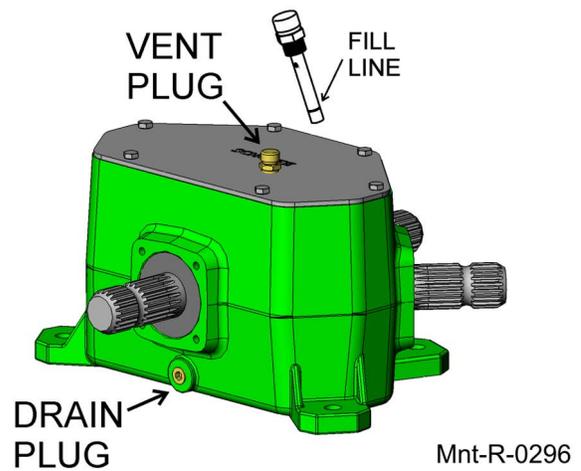
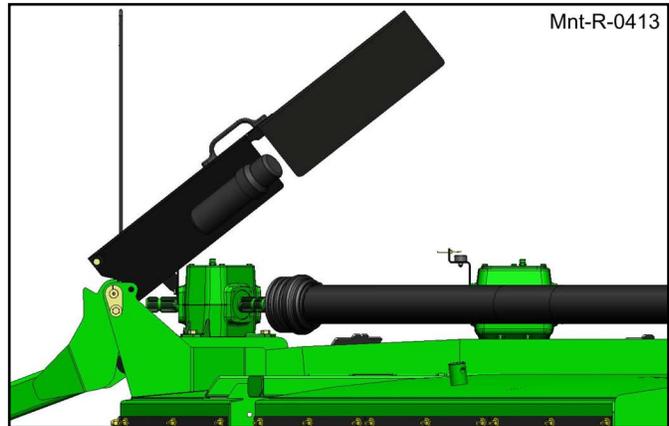
REPLACE OIL
IN GEARBOXES AFTER
THE FIRST 50 HOURS
OF OPERATION,
THEN YEARLY OR
MAXIMUM OF 300 HOURS.

226-722

MAINTENANCE

Procedure for refilling the splitter gearbox:

1. To open the main shield remove the lynch pin.
2. Park unit on a level surface.
3. Remove drain plug and drain out oil.
4. Reinstall drain plug.
5. Remove vent plug/dipstick.
6. Fill gearbox until oil level reaches the fill line on dipstick. Capacity is approximately 2.7 liters (2.85 qt.). Do not screw dipstick when checking oil level.
7. Reinstall vent plug and level plug.
8. Dispose of old oil in accordance with the local regulations.
9. Firmly close the main shield and reinstall the lynch pin.



MAINTENANCE

MAINTENANCE

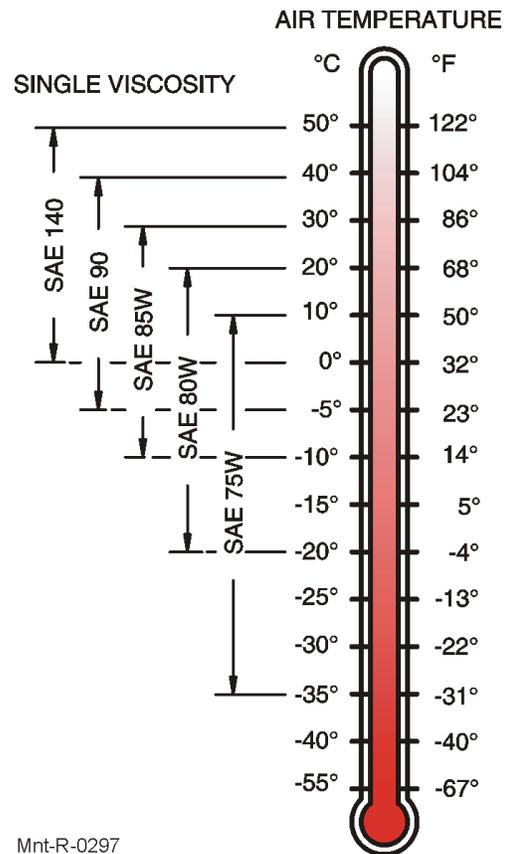
MAINTENANCE

Gearbox oil should meet the following specifications:

- API Service Classifications GL-5
- Military Specification MIL-L-2105C

Consult the following chart for the oil viscosity recommendations:

NOTE: Use SAE 80-90 Gear Oil



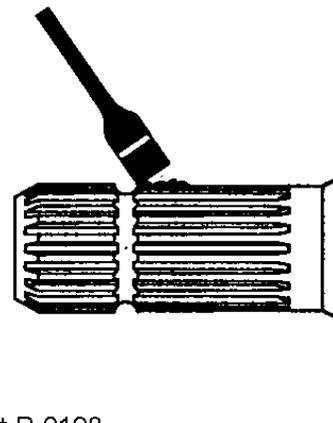
Mnt-R-0297

Grease Schedule

Grease should meet the following recommendations:

- Type of Grease: A good quality NLGI #2 EP grease, lithium soap base should be used. For heavy duty applications a compatible grease with 3 to 5% molybdenumdisulfide additive may be used.

IMPORTANT: Before attaching the driveline, clean and grease the tractor PTO and the Implement shaft.



Mnt-R-0198

IMPORTANT: Scan this QR Code with your smart phone to link to the ADMA Driveline Safety Manual for more information on the safe use of a driveline during normal operation and maintenance. Or type in your internet browser the following web address: www.algqr.com/dme_Ops-0009-MISC_str



MAINTENANCE

Drivelines

Telescoping Tubes - 8-10 pumps every 8 hours. The telescoping driveline may need to be extended or retracted to expose the grease fitting. Occasionally (monthly) pull the universal joint halves apart and apply grease to all sides of the shaft. At least once per year (more often in dusty or dirty conditions) the shielding should be removed and the old grease wiped from the shaft. Do not use an alcohol or acid based solvent to remove the grease. A fresh coat of grease should be applied to the entire surface of the inner tube.

Important

If the universal joint sliding members are allowed to dry out to the point where two halves cannot slip freely, damage to the rotary cutter or tractor may occur.

Cross Journals - 2-3 pumps every 8 hours

Lubricate until grease purges from underneath all four needle bearing caps.

Shield Retaining Bearings - 2-3 pumps every 8 hours

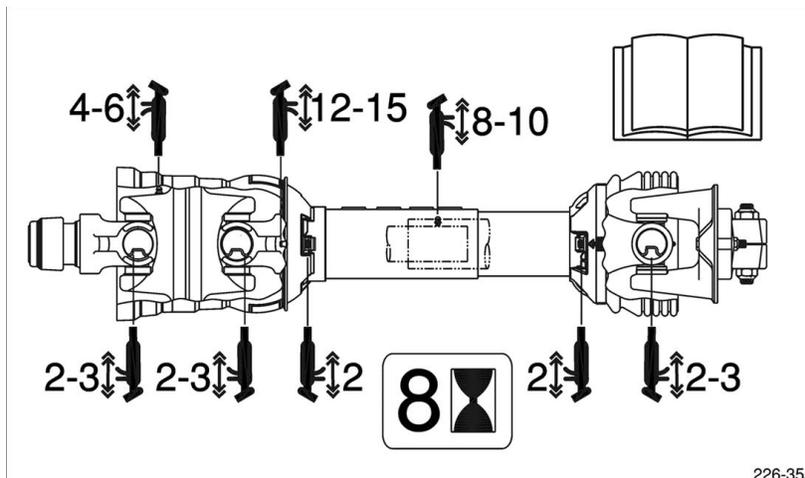
Important

Check that the driveline shielding is not damaged and rotates freely on the driveline.

Important

If sliding members are allowed to dry out to the point where the two halves cannot slip freely, damage to the rotary cutter or tractor may occur.

Tractor Shaft



Cross Journals - 2-3 pumps every 8 hours

Lubricate until grease purges from underneath all four needle bearing caps

Shield Retaining Bearings - 2-3 pumps every 8 hours

Rapid Fit Yoke - 2 pumps every 8 hours

Constant Velocity Body - 15-20 pumps every 8 hours

Telescoping Tubes - 2-3 pumps every 8 hours. Occasionally (monthly) pull the universal joint halves apart and apply grease to all sides of the shaft. At least once per year (more often in dusty or dirty conditions) the shielding should be removed and the old grease wiped from the shaft. Do not use an alcohol or acid based solvent to remove the grease. A fresh coat of grease should be applied to the entire surface of the inner tube.

Important

If sliding members are allowed to dry out to the point where the two halves cannot slip freely, damage to the rotary cutter or tractor may occur.

MAINTENANCE

SLIP CLUTCHES

Each of the drivelines on the Schulte cutter is equipped with a slip clutch.

Every one of these slip clutches are pre-set and run-in by the Schulte supplier, so they should not be adjusted by the dealer or end user.

After an extended period (4 to 6 months) of not being used, the clutches should be taken apart to ensure all parts are movable and all surfaces are free of rust.

To service the clutch and/or change the linings, follow these steps:

Disassembly

1. Remove the tapered pin.



2. Loosen the perimeter bolts on the clutch evenly and progressively to uniformly reduce the load on the spring.

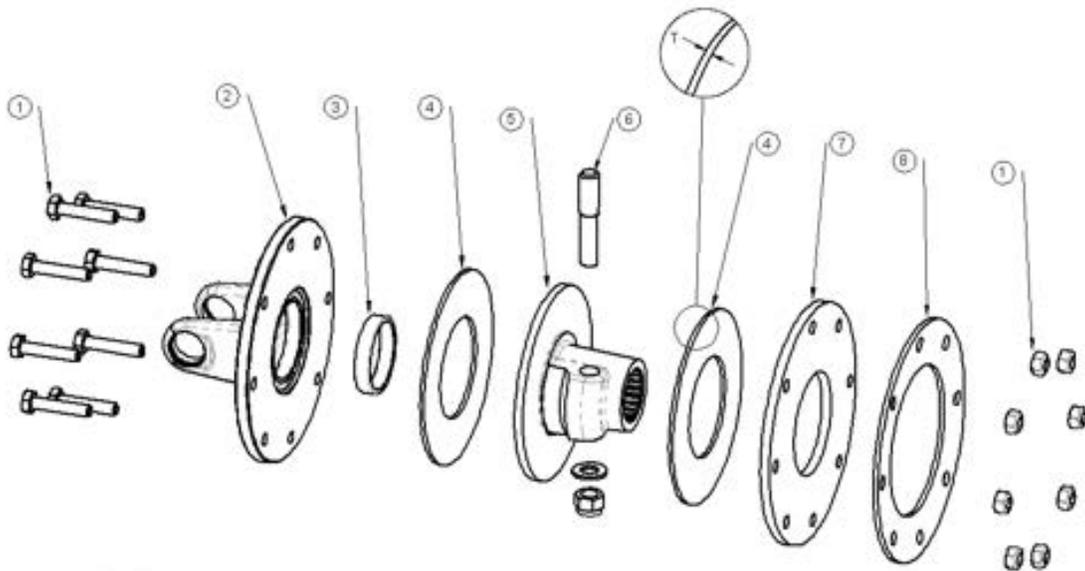


MAINTENANCE

3. Loosen the perimeter bolts on the clutch evenly and progressively to uniformly reduce the load on the spring.
4. Clean the parts using brake cleaner and a wire brush.
5. Inspect the thickness of the friction linings and replace them if they are less than 2.5 mm in thickness (new friction linings are 3.2 mm thick).



Reassembly



Mnt-R-0586

1. Install the bushing (3) in the flange yoke (2). Ensure it seats fully.
2. Reassemble the clutch as shown in the diagram (**Figure Mnt-R-0292**). Be careful not to contaminate any of the internal parts of the clutch with grease or oil from hands or tools during reassembly.

NOTE: Place spring plate so it contacts the pressure plate on the inside and has a gap at the outside.

MAINTENANCE

MAINTENANCE



3. Install the perimeter bolts and tighten the nuts uniformly to increase the spring load evenly.
4. Tighten the nuts evenly all the way around until the 17mm Clutch Gauge fits snugly over the spring and pressure plate as shown.
5. Use small adjustments to make sure the 17mm Clutch Gauge fits snugly all around the clutch. Do not over-tighten so the gauge is loose. Back off the nuts if necessary. A snug fit will ensure the proper torque is applied to the spring plate.
6. Reinsert the tapered pin into the hub.



The clutch will now have approximately 60% to 70% of its torque value. This torque value will increase to its intended value as the clutch slips during operation. Care should be taken to avoid prolonged slipping during the run-in period.

The FT clutch utilizes Belleville spring to provide a constant torque setting during the life of the friction lining. The 17mm clutch gauge ensures the accuracy of the spring tension setting.



MAINTENANCE

BLADES

Blade and Blade Carriers

Inspect blades daily. Blades should be free of deep chips, cracks or abnormal bends.



Blades should always be replaced in pairs. Blades of different weights may cause serious imbalance which can result in damage to the gearbox. Damage caused by unbalanced blades can make the machine dangerous to operate, increasing the risk of a broken gearbox lower shaft. Never weld or modify blades. Welding and other modifications such as straightening the blade after it has been bent can severely reduce the strength of the blade, increasing the likelihood that a piece breaks and can be thrown from the machine.



DO NOT SHARPEN BLADES. Sharpening blades can reduce the strength of the blade, increasing the likelihood that a piece breaks and can be thrown from the machine. Should the blades become dull, replace them. Blades should always be replaced in pairs.



AVOID PERSONAL INJURY. Blade and/or blade carrier removal should be done only with the tractor engine shut off, key removed, in neutral, parking brake on, PTO disengaged, PTO input shaft removed, and the cutter blocked in the raised position.
Mnt-R-0003 str

Blade Installation

When installing blades, use new blade bolts and blade nuts. Always replace blades in matched sets. A 1-5/8" socket can be used to torque blade bolts to 600 ft-lbs. dry assembly. You will need at least 3 feet of leverage to be able to do this. Check blade bolt torque after the first 10 hours of operation.



Use only original equipment blades on this cutter. They are made of special heat treated alloy steel. Substitute blades may not meet specifications and may be dangerous.

Re-tighten blade bolts daily. Access holes are provided on the deck of the cutter to facilitate this. After installing new blades or blade bolts ensure that blades are free swinging and that there is 1" to 1-1/2" (25-38 mm) of free up and down motion at the tip of the blade. *Mnt-R-0004 str*



Use only original equipment blades on this cutter. They are made of special heat-treated alloy steel. Substitute blades may not meet specifications and may fail in a hazardous manner that could cause injury.



Replace bent or broken blades with new blades. **NEVER ATTEMPT TO STRAIGHTEN, WELD, OR WELD HARDFACING ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSEQUENT FAILURE AND POSSIBLY CAUSE SERIOUS INJURY FROM THROWN BLADES.** *(SGM-10) str*

Blade Carrier Removal

Remove cotter pin and loosen slotted nut on gearbox shaft. Loosen but do not remove the nut until the blade carrier is loosened. Use a suitable two-jaw gear puller to pull carrier off tapered gearbox shaft. If gear puller is not available use a long bar inserted through the bolt access hole, striking the long bar with a sledge hammer. Rotate blade carrier 180° and repeat process until the blade carrier is loosened. *Mnt-R-0005 str*

MAINTENANCE

MAINTENANCE

Blade Carrier Installation

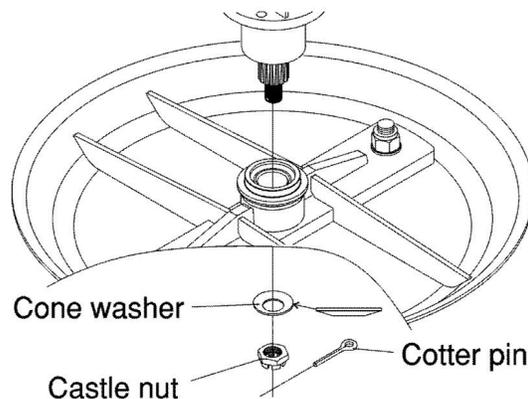
Clean the taper and splines on both the blade carrier and output shaft. Castle nuts and cotter pins are used to tighten the cutter pans to the splined shaft on the cutter gearboxes. A cone washer is used between the nut and the gearbox main shaft. The washer must cone down towards the nut.

The slots on the underside of the blade carrier must line up with the hole on the gearbox shaft so the cotter key can be inserted. To aid in alignment, mark a line on the bottom of the gearbox shaft, parallel with the cotter key hole.

Rotate the blade carrier until the slots are parallel to the mark. The pan may need to be spun 180° so the splines match.

A 70mm (2-3/4") socket can be used to torque the M45 nut to 600-650 ft-lbs (814-882 Nm) dry assembly. Strike the carrier on the hub several times with a heavy hammer to seat the hub. Use a suitable spacer over the nut to prevent damage to the nut and threads. Re-tighten the nut to 600-650 ft-lbs (814-882 Nm) dry assembly. Install new cotter pins when re-tightening these nuts.

It is important that the retaining nut be checked after a few hours of operation then periodically. Re-tighten if necessary.



WARNING AVOID PERSONAL INJURY. DO NOT work under cutter without support blocks to keep the frame from falling.

MAINTENANCE

HUBS AND SPINDLES

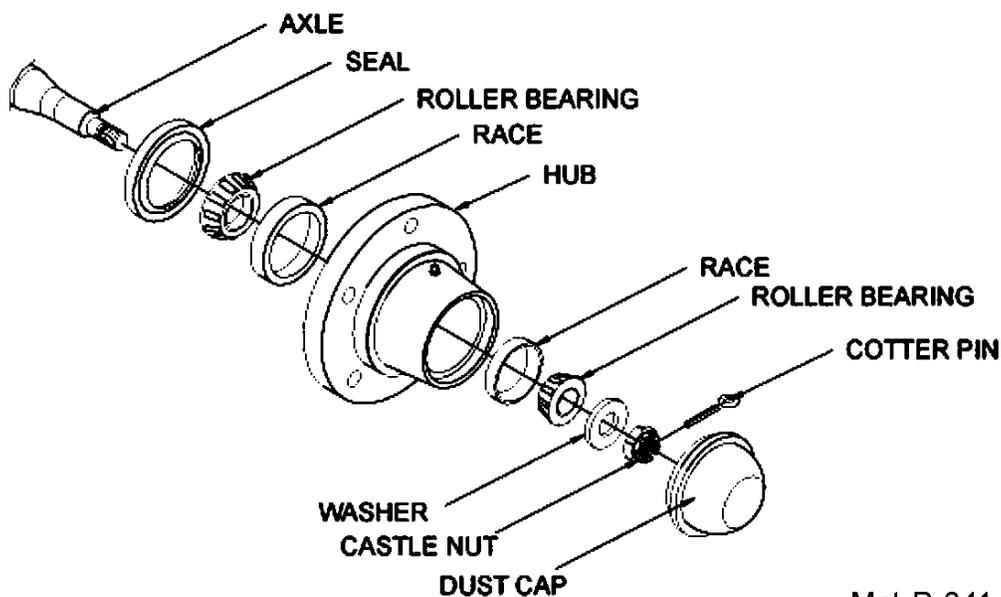
Check hubs weekly for bearing play and condition of seal.

Greasing and Installation

It is recommended that hubs are dismantled, cleaned and repacked every year. Use the diagram and following instructions for maintaining the wheel hubs. Whenever a worn or damaged seal is replaced the bearing assembly should be cleaned and repacked with a good grade of wheel grease.



Always wear protective gloves when handling grease.



1. Using a grease packer, pack both roller bearings with a good grade of wheel grease. The bearings should be thoroughly coated with grease. Spread grease on the outside of the bearing with your gloved finger. Ensure that no dirt or filings contact the grease or the bearings.
2. Pack the inside of the hub with grease. Grease needs to cover complete surface area inside hub but does not need to fill cavity.
3. Apply grease on both races.
4. Install the large bearing into the back of the hub and rotate the bearing several times.
5. Install the dust/grease seal using the right size seal driver. Spread a film of grease on the dust seal rubber and on the axle where the seal fits.
6. Position the hub on the axle and firmly push into place then pull hub towards you about 1". Slowly rotate hub while gently pushing the hub back onto the axle.
7. Check dust seal to ensure seal rubber is positioned correctly.
8. Install the small or outer bearing.
9. Install the axle washer and castle nut on the axle.

MAINTENANCE

Tightening Instructions for 618, 517 & 511 Hubs

Proper setting for the tapered roller bearings is described in the following procedure. Always use a new cotter pin when making adjustments to the hubs.

1. Tighten the castle nut to 35 ft-lbs for 618 hub and 20 ft-lbs for 517 & 511 hubs while turning hub. Then back the nut off 1/2 of a turn. Spin the hub 2 or 3 times. While slowly turning hub clockwise, finger tighten the castle nut until castle nut notch lines up with hole in axle. If notch will not line up, back off nut to next notch.
2. Put the cotter pin in the axle hole. Before bending the cotter pin, spin the hub. The hub should free wheel from 1 to 2 full turns.
3. If the hub spins the right amount, finish installing the cotter pin by bending the ends.
4. Coat the inside of the dust cap with a thin coat of grease by using your finger. Then install on hub using the right dust cap driver.
5. Wipe off all excess grease from hub and axle.

Important

There should not be any drag noticed when spinning a tire installed on a hub. If the axle nut is too tight, the rollers of the wheel bearings will remove the grease from the bearing races, decreasing the life of the bearings.

TIRES

Tire Speed / Inflation Pressure

PART NUMBER	DESCRIPTION	TRANSPORT SPEED	INFLATION PRESSURE
210-192	Solid Laminated Tire, 26	20 kph or 12 mph	N/A
210-511	Light Truck Tire	40 kph or 25 mph	65 PSI
210-540	Severe Duty	40 kph or 25 mph	40 PSI
210-540F	Severe Duty (Foam Filled)	40 kph or 25 mph	N/A
210-560	Stubble Proof Tire	40 kph or 25 mph	65 PSI

To remove tires for repair or replacement, install the transport lock links and pin, or block up the cutter. Relieve hydraulic pressure Shut off tractor, apply parking brake and disengage PTO. Loosen the wheel bolts with wrench. DO NOT remove them. Use a hydraulic jack to lift the back end of the cutter frame near the wheel standard. Securely block the wheel standard so the tire can spin freely before removing the wheel bolts.

NOTE: Torque 1/2" Wheel nuts to 85 ft-lbs



AVOID PERSONAL INJURY. DO NOT work under cutter without support blocks to keep the frame from falling.

MAINTENANCE

HIGH PRESSURE OIL LEAK

		
High pressure oil penetrating skin	High pressure oil eroding skin	Using cardboard to check for oil leaks



TO AVOID DEATH OR SERIOUS INJURY FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENETRATING SKIN:

- **DO NOT OPERATE** equipment with oil or fuel leaks.
- **KEEP** all hydraulic hoses, lines and connections in **GOOD CONDITION** and **TIGHT** before applying system pressure.
- **RELIEVE HYDRAULIC PRESSURE** before disconnecting lines or working on the system.
- **REMOVE** and replace hose if you suspect it leaks. Have dealer test it for leaks.

HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE.

WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:

- **ALWAYS WEAR** safety glasses with side shields (marked with ANSI Z87) and impenetrable gloves.
- **USE** paper or cardboard to search for leaks.
- **DO NOT USE** hands or body parts to search for leak.
- **KEEP** hands and body **AWAY** from pin holes and nozzles ejecting hydraulic fluid.
- Injected Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury. *PN HP01str*

HYDRAULIC HOSES

Replace pinched and broken Hydraulic Hoses at once. Tighten any Hydraulic Fitting with fluid leaking from it. If fluid still leaks, loosen the fitting, apply a pipe thread compound to the threads and tighten. Care must be exercised when tightening Hydraulic Fittings. Too much tightening can cause the fittings to crack and require replacement fittings.

Although a small amount of oil will be present from bleeding at all Hydraulic Fittings, significant amounts of oil leaking around the Breather Plug on the Cylinder indicates that the seal in the Cylinder is worn out. Replace the seals in the Cylinder immediately before the Cylinder is damaged or too much hydraulic fluid is lost.

MAXIMUM ALLOWABLE OPERATING OIL TEMPERATURE

Do not operate this implement if the tractor hydraulic oil temperature exceeds 200°F.

MAINTENANCE

MAINTENANCE

FLEX WING HYDRAULIC CYLINDER REPLACEMENT INSTRUCTIONS

Implement Cylinders Removal and Replacement

Follow these Steps:

1. Clear the area of all personnel before lowering the wings.
2. From the tractor seat with your seat belt fastened around you, Lower the implement wings to the ground. Do Not attempt to replace the cylinder with the wings in the raised position.
3. Shut off the tractor, engage the parking brake, place the tractor transmission in the park position, and remove the key before dismounting.
4. Block up the center and wing sections with blocks or jack stands.
5. Release all oil pressure from the circuit by moving the valve controls handles back and forward.
6. Remove the Implement Input Driveline from the tractor PTO shaft.
7. Remove the hydraulic hoses from tractor quick disconnects.
8. Wear Safety Glass and impenetrable gloves when working with hydraulic hoses and fittings.
9. Check to see that the cylinder is not under pressure by moving the cylinder pins by hand. The pins should be loose. If the cylinder pins are in a bind and can not be moved the cylinder maybe under pressure. Make sure the implement decks and axles are supported by blocks and then carefully remove one of the cylinder pins.
 - Do Not allow any one or any part of your body to be underneath the implement wing.
 - Do not loosen the hydraulic connections to the cylinder until all pressure has been relieved.
10. Slowly loosen the hydraulic hose connection to the cylinder.
11. Remove the other cylinder pin and remove the cylinder. The cylinder maybe heavy, use proper lifting techniques to lift and handle the cylinder and if needed get assistance in lifting from another person.
12. Measure the distance between the cylinder pin holes and extend the new cylinder to that length before installing.
13. Install the new cylinder in place and install both cylinder pins and retaining clips in place.
14. Reconnect hydraulic hose(s) to the cylinder, and tighten the fittings.
 - Wing cylinder has a special adapter with a small hole drilled in it to control the lowering speed on the wing. Make sure this adapter is installed. Without this adapter, the wing can fall rapidly.
 - Make sure the transport lock device(s) are reattached when inserting the cylinder pins.
15. Reconnect the implement hoses to the tractor.
16. Get into the Tractor seat and fasten your seat belt. Clear the area of all persons before attempting to raise the wing. From the tractor seat, start the tractor and operate the control valve to raise the wing.
17. Look for sign of oil leak. If an oil leak exists, shut the tractor down and remove all oil pressure in the lines by moving the valve control handles back and forward.
 - Retighten any lose fittings or connections.
 - If a hose is leaking, replace the hose with a new hose.
18. If there are no leaks raise and lower the wing completely at least three full cycles to remove any air trapped in the circuit.
19. Check the hydraulic reservoir of the tractor to ensure there is sufficient oil.
20. If the wing is to remain in the raised position attached the wing transport latch.

MAINTENANCE

SKID SHOES

Skid shoes are made of carbon steel to reduce wear and increase service life. Premature wear can be caused by the mower Center or Wing sections being set too low which allows the Wing Skid Shoes to drag on the ground. Dragging the Skid Shoes on the ground or running the Skid Shoes into solid objects can contribute to early frame failure on the mower. Replace worn Skid Shoes as required.

STORAGE

Your rotary cutter represents an investment from which you should get the greatest possible benefit. Therefore, when the season is over, the cutter should be thoroughly checked and prepared for storage so that a minimum amount of work will be required to put it back into operation for the next season. The following are suggested storage procedures:

1. Thoroughly clean the cutter.
2. Lubricate the cutter as covered in Maintenance Section.
3. Tighten all bolts and pins to the recommended torque.
4. Check the cutter for worn or damaged parts. Make replacements immediately.
5. Store the cutter in a clean, dry place with the cutter housing resting on blocks.
6. Use spray touch-up enamel where necessary to prevent rust and maintain the appearance of the cutter.

PROPER TORQUE FOR FASTENERS

The chart lists the correct tightening torque for fasteners. When bolts are to be tightened or replaced, refer to this chart to determine the grade of bolts and the proper torque except when specific torque values are assigned in manual text.

RECOMMENDED TORQUE IN FOOT POUNDS UNLESS OTHERWISE STATED IN THE MANUAL*

NOTE: *These values apply to fasteners as received from supplier, dry or when lubricated with normal engine oil. They do not apply if special graphited or molydisulphide greases or other extreme pressure lubricants are used. This applies to both UNF fine and UNC coarse threads.*

MAINTENANCE

MAINTENANCE

NUTS AND BOLTS

Check all nuts and bolts for tightness after the first 8 hours of operation then weekly. Check the condition of cotter pins, roll pins and other fasteners weekly and replace if necessary.

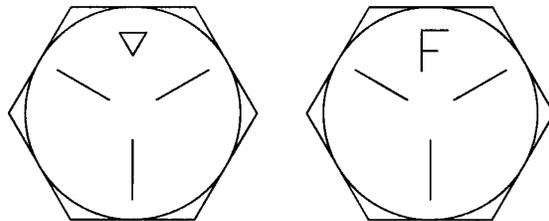
Bolt Grades and Torque

When replacing damaged bolts use only plated Grade 5 bolts unless otherwise specified. Use only bolts of the correct length (Refer to the "Parts" Manual). Do not replace locknuts with nuts and lockwashers. Use only original equipment locknuts.

Recommended Torque in foot pounds for SAE Grade 5 bolts, based on dry assembly:

Bolt Size	UNC		UNF	
	Ft-lbs	Nm	Ft-lbs	Nm
1/4"	8	11	10	14
5/16"	17	23	19	26
3/8"	31	42	35	47
7/16"	49	66	55	75
1/2"	75	102	85	115
5/8"	150	203	170	230
3/4"	269	365	297	403
1"	644	873	704	954
1-1/4"	1255	1700	1380	1870

GRADE (5) Bolt Head



Mnt-R-0285

IMPERIAL TO METRIC CONVERSION TABLE

Diameter of Bolts		
Inches	Inches	Millimeters
0.25	1/4	6
0.3125	5/16	8
0.375	3/8	10
.05	1/2	12
0.625	5/8	16
0.75	3/4	20
1	1	24
1.25	1-1/4	30
1.5	1-1/2	36

Length of Bolts					
Inches	Inches	Millimeters	Inches	Inches	Millimeters
0.5	1/2	12	5.25	5-1/4	130
0.625	5/8	16	5.5	5-1/2	140
.075	3/4	20	5.75	5-3/4	150
1	1	25	6	6	150
1.25	1-1/4	35	6.25	6-1/4	160
1.5	1-1/2	40	6.5	6-1/2	170
1.75	1-3/4	45	6.75	6-3/4	170
2	2	50	7	7	180
2.25	2-1/4	60	7.25	7-1/4	190
2.5	2-1/2	65	7.5	7-1/2	190
2.75	2-3/4	70	7.75	7-3/4	200
3	3	75	8	8	200
3.25	3-1/4	80	8.25	8-1/4	210
3.5	3-1/2	90	8.5	8-1/2	220
3.75	3-3/4	100	8.75	8-3/4	220
4	4	100	9	9	230
4.25	4-1/4	110	9.25	9-1/4	240
4.5	4-1/2	120	9.5	9-1/2	240
4.75	4-3/4	120	9.75	9-3/4	250
5	5	130	10	10	260

Grade / Class			
Imperial		Metric	
	Gr 5	Cl 8.8	
	Gr 8	Cl 10.9	

NOTE: This conversion sheet should only be used when all options to use correct hardware have been exhausted.

Mnt-SB-0026

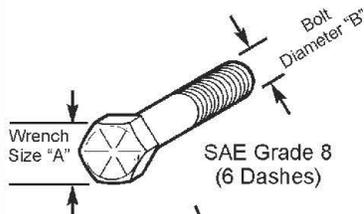
MAINTENANCE

MAINTENANCE

TORQUE SPECIFICATIONS - DRY TORQUE

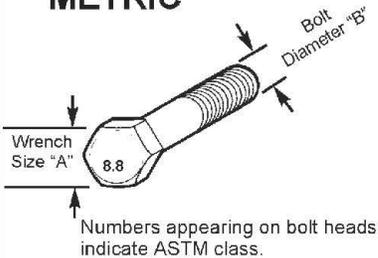
Proper torque for American fasteners.
Recommended Torque in Foot Pounds (Newton Meters).*

AMERICAN Bolt Head Markings



WRENCH SIZE (IN.) "A"	BOLT DIAMETER (IN.) "B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8
7/16	1/4 - 20 UNC	6 (7)	8 (11)	12 (16)
7/16	1/4 - 28 UNF	6 (8)	10 (13)	14 (18)
1/2	5/16 - 18 UNC	11 (15)	17 (23)	25 (33)
1/2	5/16 - 24 UNF	13 (17)	19 (26)	27 (37)
9/16	3/8 - 16 UNC	20 (27)	31 (42)	44 (60)
9/16	3/8 - 24 UNF	23 (31)	35 (47)	49 (66)
5/8	7/16 - 14 UNC	32 (43)	49 (66)	70 (95)
5/8	7/16 - 20 UNF	36 (49)	55 (75)	78 (106)
3/4	1/2 - 13 UNC	49 (66)	76 (103)	106 (144)
3/4	1/2 - 20 UNF	55 (75)	85 (115)	120 (163)
7/8	9/16 - 12 UNC	70 (95)	109 (148)	153 (207)
7/8	9/16 - 18 UNF	79 (107)	122 (165)	172 (233)
15/16	5/8 - 11 UNC	97 (131)	150 (203)	212 (287)
15/16	5/8 - 18 UNF	110 (149)	170 (230)	240 (325)
1-1/8	3/4 - 10 UNC	144 (195)	266 (360)	376 (509)
1-1/8	3/4 - 16 UNF	192 (260)	297 (402)	420 (569)
1-5/16	7/8 - 9 UNC	166 (225)	430 (583)	606 (821)
1-5/16	7/8 - 14 UNF	184 (249)	474 (642)	668 (905)
1-1/2	1 - 8 UNC	250 (339)	644 (873)	909 (1232)
1-1/2	1 - 12 UNF	274 (371)	705 (955)	995 (1348)
1-1/2	1 - 14 UNF	280 (379)	721 (977)	1019 (1381)
1-11/16	1-1/8 - 7 UNC	354 (480)	795 (1077)	1288(1745)
1-11/16	1-1/8 - 12 UNF	397 (538)	890 (1206)	1444 (1957)
1-7/8	1-1/4 - 7 UNC	500 (678)	1120 (1518)	1817 (2462)
1-7/8	1-1/4 - 12 UNF	553 (749)	1241 (1682)	2013 (2728)
2-1/16	1-3/8 - 6 UNC	655 (887)	1470 (1992)	2382 (3228)
2-1/16	1-3/8 - 12 UNF	746 (1011)	1672 (2266)	2712 (3675)
2-1/4	1-1/2 - 6 UNC	870 (1179)	1950 (2642)	3161 (4283)
2-1/4	1-1/2 - 12 UNF	979 (1327)	2194 (2973)	3557 (4820)

METRIC



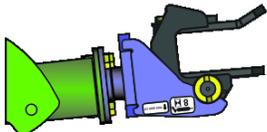
*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.

Proper torque for Metric fasteners.
Recommended torque in Foot Pounds (Newton Meters).*

WRENCH SIZE (mm) "A"	BOLT DIA. (mm) "B"	ASTM 4.6	ASTM 8.8	ASTM 9.8	ASTM 10.9
8	5	1.8 (2.4)		5.1 (6.9)	6.5 (8.8)
10	6	3 (4)		8.7 (12)	11.1 (15)
13	8	7.3 (10)		21.1 (29)	27 (37)
16	10	14.5 (20)		42 (57)	53 (72)
18	12	25 (34)	74 (100)	73 (99)	93 (126)
21	14	40 (54)	118 (160)	116 (157)	148 (201)
24	16	62 (84)	167 (226)	181 (245)	230 (312)
30	20	122 (165)	325 (440)		449 (608)
33	22		443 (600)		611 (828)
36	24	211 (286)	563 (763)		778 (1054)
41	27		821 (1112)		1138 (1542)
46	30	418 (566)	1119 (1516)		1547 (2096)

Mnt-B-0005

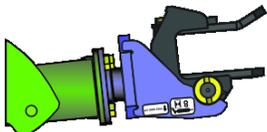
AVISO



Conecte la HORQUILLA PRO LEVEL al TRACTOR en la orientación correcta que se muestra o podría ocurrir daño a la máquina.

226-719 SP

NOTICE



Connect PRO LEVEL CLEVIS to TRACTOR in correct orientation shown or machine damage could occur.

IMPORTANTE

VUELVA A APRETAR LOS PERNOS DE LA CAJA DE CAMBIOS (240 FT LBS) DESPUES DE LAS PRIMERAS 8 HORAS DE FUNCIONAMIENTO Y CADA 50 HORAS A PARTIR DE ENTONCES.

226-712

ADVERTENCIA

RIESGO DE OBJETO LANZADO



226-716 SP

La tecnología de cuchillas fijas está diseñada únicamente para cortar residuos de cultivos y materiales secos similares. Retire siempre todas las cuchillas fijas al cortar el césped en vegetación densa, húmeda o verde. Este tipo de vegetación verde puede acumularse en las cuchillas fijas y dañar las cuchillas de la cortadora rotativa, lo que puede provocar la muerte o lesiones graves.

WARNING

THROWN OBJECT HAZARD



226-716

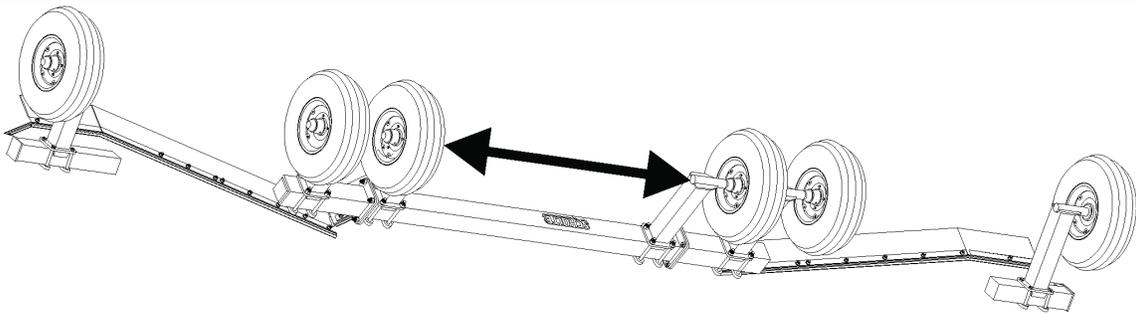
Fixed knife Technology is only intended for cutting crop residue and similar dry materials. Always remove all fixed knives when mowing in heavy, damp, or green vegetation. This type of green vegetation can accumulate on the fixed knives and damage the rotary mower blades, which can result in death or serious injury.

IMPORTANTE

To increase stability during transportation: ● Move wheels out as far as possible to maximize stability.

IMPORTANTE

Para aumentar estabilidad durante el transporte: ● Mueva las llantas hacia fuera lo más lejos posible para maximizar la estabilidad.



226-448

SEGURIDAD

SEGURIDAD

  <p>Manuel de l'Opérateur www.algqr.com/smt</p>	   <p>El Manual del Operador Seguridad vídeo www.algqr.com/sms</p>
<p>Si vous ne savez pas lire le l'anglais: avant d'utiliser l'équipement, demandez à une personne de vous traduire les messages de sécurité ou allez sur le site Internet pour voir la traduction des autocollants et des messages de sécurité.</p>	<p>Si no puede leer inglés: antes de poner en funcionamiento este equipo, solicite que alguien le traduzca los mensajes de seguridad o vaya al sitio web para consultar los mensajes de seguridad y las etiquetas ya traducidos.</p>
<p>▲ DANGER</p>	<p>▲ PELIGRO</p>

  <p>Benutzerhandbuch www.algqr.com/smg 226-491</p>	  <p>Manual do Operador www.algqr.com/smp</p>
<p>Falls Sie Englisch nicht lesen können: Lassen Sie sich, bevor Sie das Gerät in Betrieb nehmen, die Sicherheitshinweise von einer geeigneten Person in Ihre Sprache übersetzen. Oder suchen Sie auf unserer Website nach Übersetzungen von Schilderaufschriften und Sicherheitshinweisen.</p>	<p>Caso você não leia inglês: antes de operar o equipamento, peça para alguém traduzir as mensagens de segurança ou visite a web e obtenha tais mensagens ou os decaques traduzidos.</p>
<p>▲ GEFÄHR</p>	<p>▲ PERIGO</p>

<p>IMPORTANTE</p> <p>LA FRACTURA DE TORNILLO CORTABLE INDICA QUE EL EMBRAQUE DESLIZANTE SE A TRABADO</p> <p>Al reemplazar el tornillo cortable siempre libere el embrague deslizando o la línea de conducción se puede dañar.</p> <p>226-447 SP</p>	<p>IMPORTANT</p> <p>INDICATES THAT THE SLIP CLUTCH HAS SEIZED</p> <p>Always free up slip clutch when replacing a shear bolt or the drive line will be damaged.</p>
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⚠️ ADVERTENCIA

TO AVOID DEATH OR SERIOUS INJURY:

- ONLY use genuine SCHULTE replacement parts, which have been validated and tested to use on Schulte equipment by the manufacturer.
- The equipment manufacturer cannot verify the material or structural integrity of third-party supplied non-genuine replacement parts.
- Using non-genuine parts can result in the part failing, creating hazardous conditions for operator and bystanders.

Contact local dealer or SCHULTE about repair parts at:
 PO BOX 70, Englefeld,
 Saskatchewan Canada SOK 1 NO
 Customer Service: 306-287-3715
 Email: info@schulte.ca
 www.algqr.com/spm

PARA EVITAR MUERTE O LESION GRAVE:

- El uso de piezas no originales puede provocar el fallo de la pieza, creando condiciones peligrosas para el operador y personas presentes.
- SOLO use piezas de repuesto genuinas de Schulte, que han sido validados y probados para usar en equipo Schulte por el fabricante.
- El fabricante del equipo no puede verificar el material, o integridad estructural de piezas de repuesto no genuino suministrados.

Contacte a su distribuidor local o SCHULTE sobre partes de reparo a:
 PO BOX 70, Englefeld,
 Saskatchewan Canada SOK 1 NO
 Customer Service: 306-287-3715
 Email: info@schulte.ca
 www.algqr.com/spm

IMPORTANT

BE AWARE **BE ALERT** **BE ALIVE**
BE TRAINED **Before Operating** **this Mower**

ESTE CONSCIENTE SEA ENTRENADO **ESTE ALERTO** **ESTE VIVO**
Antes de Funcionar **Cortacésped**

To prevent serious injury to yourself and/or bystanders, be trained in Safe Mowing Practices. Alamo Group Companies, Alamo Industrial, Bush Hog, Rhino, Schulte, Tiger and Terrain King as well as AEM and FEMA provide training material that is critical for your Safety and the Safety of others when operating this equipment. Make these Safety Procedures an important part of every workday. Read and understand the Operator's Manual. Do not let untrained individuals operate this equipment. Contact your Dealer, AEM (www.aem.org), FEMA (314-878-2304, www.FarmEquipment.org), or Alamo Group (www.Alamo-Group.com) for information on training material or courses that provide training in Safer Operating Practices for Mowers.

Para prevenir lesiones graves a usted y/o personas presentes, sea entrenado en la Práctica de Segar Seguro. Compañías de Alamo Group, Alamo Industrial, Bush Hog, Rhino, Schulte y Tiger así como AEM y FEMA proporcionan material para entrenar que es esencial para su seguridad y la seguridad de otros al operar este equipo. Haga estos procedimientos de seguridad una parte importante de su día de trabajo. Lea y entienda el Manual de Operadores. No permita que personas sin entrenamiento funcionen este equipo. Contacte a su distribuidor, AEM (www.aem.org), FEMA (314-878-2304, www.FarmEquipment.org), o Alamo Group (www.Alamo-Group.com) para la información sobre el material de entrenamiento o cursos que ofrecen el entrenamiento de Prácticas de Operación para Cortadoras.



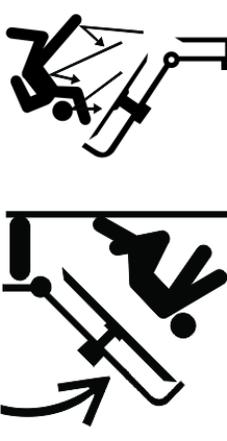
⚠️ WARNING **⚠️ ADVERTENCIA**

Cancer and Reproductive Harm **Cáncer y Daño Reproductivo**

www.P65Warnings.ca.gov www.P65Warnings.ca.gov

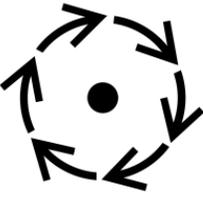
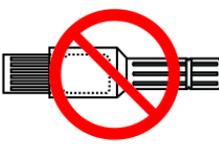
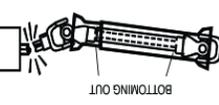
SEGURIDAD

SEGURIDAD

! DANGER		Crushing Hazard - Death or Injury	
! PELIGRO		Riesgo de Aplastamiento Muerte o Lesion	
<p>TO AVOID DEATH OR SERIOUS INJURY:</p> <ul style="list-style-type: none"> • STAND CLEAR when removing transport latch, lowering or raising wings. • CLEAR AREA of bystanders before lowering implement wings. • IMPLEMENT CAN FALL from hydraulic failure or accidental operation of controls. • BLOCK UP and securely support equipment before putting hands, feet or body under raised equipment or lifted components. • SECURELY ENGAGE transport latch before transportation or working under wing. • FILL CYLINDERS with oil before attempting to lower implement wings. • DO NOT OPERATE in transport position or with wings off ground. 			
<p>PARA EVITAR MUERTE O LESION GRAVE:</p> <ul style="list-style-type: none"> • MANTENGASE LEJOS al quitar el cierre de transporte, bajando y devantando las alas. • DESOCUPE EL AREA de personas presentes antes de bajar las alas del implemento. • EL IMPLEMENTO PUEDE CAER del implemento. • EQUIPO de componentes levantados poner manos, pies o cuerpo debajo del equipo de componentes levantados. • CON SEGURIDAD ACTIVE el cierre de transporte antes de la transportación o trabajar debajo de las alas. • LLENE LOS CILINDROS con aceite antes de intentar de bajar las alas del implemento. • NO OPERE en posición de transporte o con las alas devantadas de la tierra. 226-443 			

! DANGER	<p>DO NOT TOW at speeds greater than 20 MPH(30 KM/H.</p> <p>Ensure mass of towing vehicle is at least 2/3 times the mass of the towed machinery.</p> <p>Be sure to park on level ground to a maximum of 10% ground slope.</p>
! DANGER	<p>NO remolque a velocidades superiores a 20 MPH (30 KM / H.</p> <p>Asegúrese de que el peso del vehículo remolcador sea al menos 2/3 veces el peso de la maquinaria remolcada.</p> <p>Asegúrese de estacionarse en un terreno nivelado con una pendiente máxima del 10%.</p> <p>D226-659</p>

! DANGER	<p>GUARD MISSING DO NOT OPERATE</p> 
! PELIGRO	<p>FALTA LA CUBIERTA NO OPERE</p>  <p>226-446 SP</p>

⚠️ ADVERTENCIA		⚠️ WARNING	
<p style="text-align: center;">OPERE ESTA MÁQUINA A 1000 RPM</p> <p>SOLAMENTE OPERE ESTA MÁQUINA A VELOCIDAD DE PTO (TOMA DE FUERZA O BARRA GITATORIA) DEL TRACTOR DE 540 RPM. El exceso de velocidad de PTO puede causar el fracaso de componente que resultara en lesión. ROTACION DE PTO DEL TRACTOR: EN SENTIDO HORARIO</p>		<p style="text-align: center;">OPERATE THIS MACHINE AT 1000 RPM</p> <p>TRACTOR PTO SPEED ONLY. Overspeeding PTO may cause component failure resulting in bodily injury. TRACTOR PTO ROTATION: CLOCKWISE</p>	<p style="text-align: right;">226-441 2</p>
⚠️ PELIGRO		⚠️ DANGER	
<p>PARA EVITAR MUERTE O LESION GRAVE POR CONTACTO A LA LINEA DE CONDUCCION, SEPARACION DE LINEA DE CONDUCCION O EL FRACASO DEL EJE DE PTO:</p> <ul style="list-style-type: none"> • PARE, MIRE y ESCUCHE por el movimiento de rotación antes de acercarse al implemento. • MANTENGASE ALEJADO y MANTENGA manos, pies y cuerpo LEJOS de partes girando, hasta que todos los elementos de movimiento se han parado. • SIEMPRE apague la Toma De Fuerza (Barra Gitatoria) antes de desmontar. • NO opere si las cubiertas de Toma De Fuerza (Barra Gitatoria) estan dañadas. • TRABE el YUGO de collar de fijación de la LINEA DE CONDUCCION al eje de PTO (Barra Gitatoria) del tractor. • EMPUJE Y JALE el yugo hasta que el collar de fijación hace clic y el yugo se traba en lugar. • USE la longitud de línea de conducción CORRECTA para el implemento. (Vea el Manual de Operador para el Procedimiento) • REVISE las guardias de línea de conducción por giración libre y suficiente trasape para evitar areas sin cobertura. • NO UTILICE UN ADAPTOR PARA LA TOMA DE FUERZA (Barra Gitatoria). 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  <p style="font-size: small;">BOTTOMING OUT</p> </div> <div style="text-align: center;">  <p style="font-size: small;">PTO (Barra Gitatoria)</p> </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	<ul style="list-style-type: none"> • STOP, LOOK and LISTEN for rotating motion before approaching implement. • STAY AWAY and KEEP hands, feet and body AWAY from rotating parts until all moving elements have stopped. • ALWAYS shut off PTO before dismounting. • DO NOT operate if PTO shields are damaged or missing. • LOCK DRIVELINE locking collar YOKE to tractor PTO Shaft. • PUSH AND PULL on yoke until collar clicks and locks yoke in place. • USE CORRECT length drivelines for implement. (See Operator's Manuals for procedure) • CHECK driveline guards for free rotation and sufficient overlap to avoid unshielded areas. • DO NOT USE PTO ADAPTER 	<p style="text-align: right;">226-441 1</p>

Required for Standard Pull Type Units.

14" (540 RPM)
OR
16" (1000 RPM 1-3/8-21)
OR
20" (1000 RPM 1-3/4-20)

MOWER TONGUE

TRACTOR DRAWBAR

Attach Safety Chain securely.
Coloque la Cadena de Seguridad seguramente.

226-438_4

Requerido por Unidades de Tipo Tirón Estándar.

IMPORTANT

IMPORTANTE

TO AVOID EQUIPMENT AND GRASS FIRES:

- CLEAR AWAY grass or debris from slip clutches, gearboxes, drivelines and decks.
- DO NOT ALLOW BLADES TO CONTACT rocks, metal or solid objects.

TO AVOID FIRE IGNITION:

PARA EVITAR INCENDIOS DE EQUIPO Y CÉSPED:

- QUITTE el césped o escombros de embrague deslizante, caja de engranajes, líneas de conducción y cubiertas.
- NO PERMITA QUE LAS LAMINAS CONTACTEN piedras, metal o objetos sólidos.

WARNING

ADVERTENCIA

226-438_3

TO AVOID DEATH OR SERIOUS INJURY WHEN TOWING EQUIPMENT:

- DO NOT TOW with trucks or other vehicles.
- ONLY transport with properly sized and equipped tractor. (see Operator's Manual)
- ATTACH implement SAFETY CHAIN to tractor.
- CHECK SMV sign, SIS sign, reflectors and warning lights for visibility behind unit.
- TURN ON tractor flashing warning lights.
- DO NOT tow at speeds over 20 mph.
- REDUCE SPEED on inclines, in turns and in poor towing conditions.

TO AVOID LOSS OF TOWING CONTROL:

- NO remolque en velocidades arriba de 20 mph.
- REDUZCA LA VELOCIDAD en inclinas, en vueltas y en la pobres condiciones de remolque.

PARA EVITAR MUERTE O LESION GRAVE AL REMOLCAR EL EQUIPO:

- NO REMOLQUE con camion o cualquier otro vehicul.
- SOLO transporte con un tractor bien equipado y de tamaño adecuado (vea el Manual de Operador)
- APLIQUE LA CEDENA DE SEGURIDAD al tractor.
- VERIFIQUE EL SMV, reflectors, SIS y luces intermitentes de advertencia pueden ser vistos claramente por detras de la unidad.
- PRIENDA las luces intermitentes de advertencia.
- PARA EVITAR PERDIDA DE CONTROL DE REMOLQUE:
- NO remolque en velocidades arriba de 20 mph.
- REDUZCA LA VELOCIDAD en inclinas, en vueltas y en la pobres condiciones de remolque.

WARNING

ADVERTENCIA

226-438_2

SEGURIDAD

SEGURIDAD

SEGURIDAD

SEGURIDAD

⚠️ ADVERTENCIA

PARA EVITAR MUERTE O LESION GRAVE POR LA PENETRACION A LA PIEL POR ALTA PRESION DE ACEITE HIDRAULICO:

- NO OPERE el equipo con fugas de aceite o combustible.
- MANTENGA todas las mangueras hidráulicas, líneas y conexiones en buenas condiciones y apretadas antes de aplicar presión al sistema.
- Releve la presión hidráulica antes de desconectar las líneas o trabajar en le sistema.
- QUITE y reemplace la manguera si sospecha que hay fuga.

FUGAS DE ALTA PRESION PUEDEN SER INVISIBLE. AL VERIFICAR POR FUGAS HIDRAULICAS Y TRABAJANDO ALREDEDOR DE SISTEMAS HIDRAULICOS:

- NO use las manos para verificar si hay agujeros.
- SIEMPRE USE lentes de seguridad y guantes impenetrables.
- USE papel o un cartón para buscar agujeros.
- NO USE las manos o partes del cuerpo para buscar agujeros.
- MANTENGA manos y cuerpo LEJOS de agujeros de alfiler y boquillas que expulsan el líquido hidráulicos. 226-438-1



⚠️ WARNING

TO AVOID DEATH OR SERIOUS INJURY FROM HIGH PRESSURE HYDRAULIC OIL LEAKS PENETRATING SKIN:

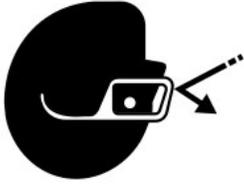
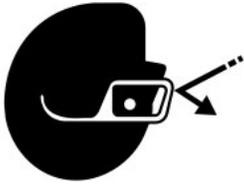
- DO NOT OPERATE equipment with oil or fuel leaks.
- KEEP all hydraulic hoses, lines and connections in good condition and tight before applying system pressure.
- Relieve hydraulic pressure before disconnecting lines or working on the system.
- REMOVE and replace hose if you suspect it leaks. Have dealer test it for leaks.

HIGH PRESSURE FLUID LEAKS CAN BE INVISIBLE. WHEN CHECKING FOR HYDRAULIC LEAKS AND WORKING AROUND HYDRAULIC SYSTEMS:

- DO NOT use hands to check for leaks.
- ALWAYS WEAR safety glasses with side shields (marked with ANSI Z87) and impenetrable gloves.
- USE paper or cardboard to search for leaks.
- KEEP hands and body AWAY from pin holes and nozzles ejecting hydraulic fluid.
- Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury.

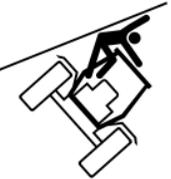
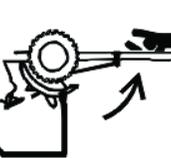
SEGURIDAD

SEGURIDAD

! PELIGRO			
			
<p>PARA EVITAR MUERTE O LESION GRAVE:</p> <ul style="list-style-type: none">● LEA Y ENTIENDA el Manual de Operador proporcionado, signos de seguridad y calcomanías informativas para el tractor y implemento antes de operar el equipo.● CONTACTE AL DISTRIBUIDOR inmediatamente si no tiene los manuales.● CONTACTE AL DISTRIBUIDOR para que le explique cualquier instrucciones que no entienda completamente.● SIEMPRE USE lentes de seguridad.● USE un casco, zapatos de seguridad y guantes para su protection cuando esta operando el equipo.			
! DANGER			
			
<p>TO AVOID DEATH OR SERIOUS INJURY:</p> <ul style="list-style-type: none">● READ AND UNDERSTAND the provided Operator's Manuals, safety signs and information decals for tractor and implement before operating equipment.● CONTACT DEALER immediately if you do not have manuals.● CONTACT DEALER to explain any instructions not fully understood.● ALWAYS WEAR safety glasses with side shields (marked with ANSI Z87).● WEAR hard hat, safety shoes and gloves for protection when operating equipment.			

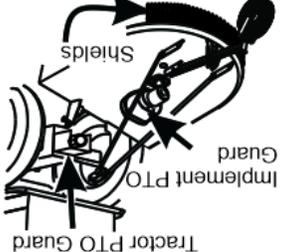
SEGURIDAD

SEGURIDAD

	PELIGRO	Riesgo de Aplastamiento - Muerte o Lesion
	<ul style="list-style-type: none"> ● USE un tractor equipado con Estructura Protectora Contra Vuelcos ("ROPS") incluyendo barra antivuelco y cinturón de seguridad. Mantenga la barra antivuelco en la posición elevada. ● PERMANEZCA ALEJADO al quitar el seguro de transporte, y al bajar o subir las alas. ● EL IMPLEMENTO SE PUEDE CAER por el mal funcionamiento hidráulico o operación accidental de los controles. ● BLOQUEE y soporte con seguridad el equipo antes de poner manos, pies o cuerpo debajo del equipo o componentes levantados. 	
	DANGER	Crushing Hazard - Death or Injury
	<ul style="list-style-type: none"> ● USE tractor equipped with Rollover Protective Structure ("ROPS") including roll bar and seat belt. Keep roll bar in raised position. ● STAND CLEAR when removing transport latch, lowering or raising wings. ● IMPLEMENT CAN FALL from hydraulic failure or accidental operation of controls. ● BLOCK UP and securely support equipment before putting hands, feet or body under raised equipment or lifted components. 	
		226-436 SP 4

SEGURIDAD

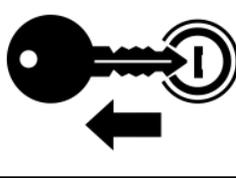
SEGURIDAD

					
<p>PELIGRO</p>			<p>DANGER</p>		
<p>RIESGO DE ENREDAMIENTO</p>			<p>ENTANGLEMENT HAZARD</p>		
<p>PARA EVITAR MUERTE O LESION GRAVE:</p> <ul style="list-style-type: none"> • NO opere sin la cubierta protectora en su lugar y en buen estado. Toma De Fuerza (Barra Gítoria) y guardias de caja de engranaje son SUJETO AL ESGASTE. • MANTENGASE ALEJADO y MANTENGA manos, pies y cuerpo LEJOS de las cuchillas girando, líneas de conducción, y partes que siguen moviéndose después de que el poder es apagado. ESPERE hasta que todos los elementos móviles se han parado. • SIEMPRE REEMPLACE CUBIERTAS que han sido quitadas para servicio o mantenimiento. • DETENGASE, OBSERVE y ESCUCHE por el movimiento de rotación antes de acercarse al implemento. • NO PISE EN las líneas de conducción o cubiertas. 			<p>TO AVOID DEATH OR SERIOUS INJURY:</p> <ul style="list-style-type: none"> • DO NOT operate without guards in place and in good condition. PTO and gearbox guarding are SUBJECT TO WEAR. • STAY AWAY and KEEP hands, feet and body AWAY from rotating blades, drivelines and parts that continue to move after power shut-off. WAIT until all moving elements have stopped. • ALWAYS REPLACE GUARDS that have been removed for service or maintenance. • STOP, LOOK and LISTEN for rotating motion before approaching implement. • DO NOT STEP ON drivelines or guards. 		

SEGURIDAD

SEGURIDAD

PELIGRO

			
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Riesgo de Atropello Muerte o Lesion

PARA EVITAR MUERTE O LESION GRAVE:

- SIEMPRE ABROCHE el cinturón de seguridad.
- SOLO ENCIENDA el tractor mientras que esta sentado en el asiento del operador.
- PARE EL MOTOR Y Toma De Fuerza (Barro Gítoria), aplique el freno de mano, baje el implemento, y deje que todas las partes movi paren completamente, y quite la llave antes de desmontar el tractor.
- ENTIENDA COMO parar el tractor y equipo rapidamente en caso de una emergencia.
- NO MONTE o DESMONTE el tractor en movimiento.
- NUNCA PERMITA pasajeros en el tractor o implemento.
- NUNCA PERMITA que niños operen o se monten en el tractor o implemento.
- MANTENGA LAS PERSONAS PRESENTES LEJOS de la area antes de mover el tractor o implemento.
- MANTENGASE ALERTO y EVITE golpes en troncos, agujeros, pozos o terreno en desnivel.
- EVITE las ramas de árbol, maleza y algun otros objetos que sobresalen que puedan golpear y tumbar el operador del asiento.

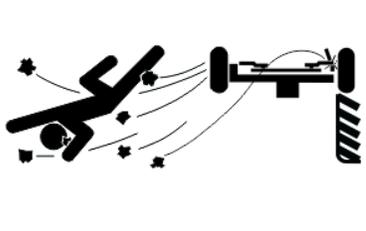
DANGER

Run Over Hazard - Death or Injury

TO AVOID DEATH OR SERIOUS INJURY:

- ALWAYS BUCKLE UP seat belt.
- ONLY START Tractor while seated in the operator's seat.
- STOP ENGINE and PTO, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from tractor.
- KNOW HOW to stop tractor and equipment quickly for an emergency. DO NOT MOUNT or DISMOUNT Tractor in motion.
- NEVER ALLOW riders on tractor or implement.
- NEVER ALLOW children to operate or ride on tractor or implement.
- KEEP BYSTANDERS CLEAR of area before moving tractor or implement.
- KEEP ALERT and AVOID hitting stumps, holes, ruts, and uneven terrain.
- AVOID tree limbs, brush and other overhanging objects that can strike and throw the operator from seat.

226-436 SP 2

 PELIGRO		
		
		
		
RIESGO DE OBJETOS LANZADOS		
<p>MUERTE O LESION GRAVE a operadores y personas presentes: PARA EVITAR Cortacésped puede lanzar objetos hasta 300 pies. PARA EVITAR área de segar.</p> <ul style="list-style-type: none"> • Pare de segar si personas o tráfico se acercan entre 300 pies del • NO OPERE sin la cubierta para objetos lanzados. • MANTENGA la cubierta para objeto lanzado en su lugar y en buenas condiciones. Los protectores de objetos lanzados son sujetos al desgaste. • REPARAR O REEMPLAZAR cubiertas si son dañadas, quebradas, o si faltan. • INSPECCIONE el área por si hay riesgos potenciales de objetos lanzados antes de segar. • REMUEVA y EVITE objetos como alambre, cable, objetos de metal y todo otro material extraño. • NO DEJE que las cuchillas contacten los objetos sólidos como alambre, rocas, postes, borde de banqueta, o barandillas. • NO OPERE en posición de transporte o con las alas levantadas. 		
 DANGER		
THROWN OBJECTS HAZARD		
<p>Mower can throw objects up to 300 feet. TO AVOID DEATH OR SERIOUS INJURY to operator or bystanders:</p> <ul style="list-style-type: none"> • STOP mowing if bystanders or traffic come within 300 feet. • DO NOT OPERATE with thrown object shielding removed. • KEEP thrown object shielding in place and in good condition during operation. Thrown Objects shielding is subject to wear. • REPAIR OR REPLACE shielding if damaged, broken or missing. See Operator's Manual for all Shields and Guards. • INSPECT area for potential mower thrown object hazards before mowing. • Remove and AVOID objects such as wire, cable, metal objects and all other foreign material. • DO NOT ALLOW blades to contact solid objects like wire, rocks, posts, curbs or guard rails. • DO NOT OPERATE in transport position or with wings off ground. 		
226-436 SP 1		

SEGURIDAD

SEGURIDAD

⚠ DANGER ⚠ PELIGRO	
	⚠ DANGER ⚠ PELIGRO DO NOT MISSING GUARD OPERATE
FALTA EL CUBIERTA NO OPERE	⚠ DANGER ⚠ PELIGRO

226-442 SP

NOTICE

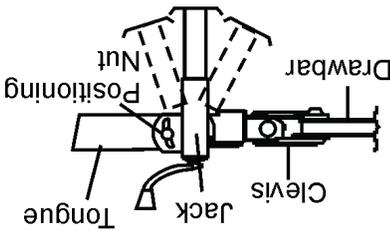
REPLACE OIL
 IN GEARBOXES AFTER
 THE FIRST 50 HOURS
 OF OPERATION,
 THEN YEARLY OR
 MAXIMUM OF 300 HOURS.

AVISO

REEMPLAZAR EL ACEITE DE
 LAS CAJAS DE CAMBIOS
 DESPUÉS DE LAS PRIMERAS
 50 HORAS DE
 FUNCIONAMIENTO, LUEGO DE
 CADA AÑO O UN MÁXIMO DE
 300 HORAS.

226-722 SP

⚠ WARNING



Rated Vertical: 3000 lbs	Loads Side: 800 lbs
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TO AVOID SERIOUS INJURY:

- Fully engage jack retaining pin.
- Adjust jack vertically.
- Torque positioning nut to 250 ft-lbs.
- DO NOT exceed rated loads.

⚠ ADVERTENCIA

PARA EVITAR LESION SERIA:

- Aplique completamente el perno de retencion al gato.
- Ajuste el gato verticalmente.
- Apriete la tuerca a torsion de 250 p/lbs.
- NO exceda las cargas calculadas.

226-428



<p>▲ PELIGRO</p> <p>RIESGO DE OBJETOS LANZADOS</p> <p>PARA EVITAR MUERTE O LESION GRAVE: NO OPERE si la Cubierta de Objetos Lanzados esta dañada o falta. MANTENGA la Cubierta de Objetos Lanzados</p> <p>AQUI</p> <p>226-437</p>		<p>▲ DANGER</p> <p>THROWN OBJECT HAZARD</p> <p>TO AVOID DEATH OR SERIOUS INJURY: DO NOT OPERATE if Thrown Object Shielding is damaged or missing. MAINTAIN Thrown Object Shielding</p> <p>HERE</p>	

<p>▲ ADVERTENCIA</p> <p>PARA EVITAR MUERTE O LESION GRAVE POR EL FALLO DEL ACOPLAMIENTO DE LAS CUCHILLAS: ● Apriete los tornillos a torsión de 600 libras pie. ● Siempre reemplace las cuchillas en pares. ● SIEMPRE reemplace las cuchillas con tornillos y tuercas nuevas. 226-165 1</p>		<p>▲ WARNING</p> <p>TO AVOID DEATH OR SERIOUS INJURY FROM BLADE ATTACHMENT FAILURE: ● Torque blade bolt to 600 ft lbs. ● ALWAYS replace blades in pairs. ● ALWAYS replace blades with new bolts and nuts.</p>	
<p>BLADE ROTATION</p> <p>ROTACION DE CUCHILLAS</p> <p>226-165 2 226-165</p>			

IMPORTANTE

COMPROBAR EL NIVEL DE ACEITE EN TODAS LAS CAJAS DE CAMBIOS ANTES DE LA OPERACIÓN

226-081 SP

IMPORTANTE

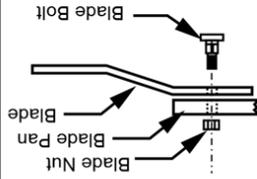
NO opere esta máquina con una transmisión de velocidad constante (CV).

226-268 SP

⚠ WARNING

TO AVOID DEATH OR SERIOUS INJURY FROM BLADE ATTACHMENT FAILURE:

- Torque blade bolt to 600 ft lbs.
- ALWAYS replace blades in pairs.
- ALWAYS replace blades with new bolts and nuts.



PARA EVITAR MUERTE O LESION GRAVE POR EL FALLO DEL ACOPLAMIENTO DE LAS CUCHILLAS:

- Apriete los tornillos a torsión de 600 libras pie.
- Siempre reemplace las cuchillas en pares.
- SIEMPRE reemplace las cuchillas con tornillos y tuercas nuevas.

⚠ ADVERTENCIA

BLADE ROTATION



ROTACIÓN DE CUCHILLAS

226-164 2

226-164 1

SEGURIDAD

SEGURIDAD

INFORMACIÓN DE PARTES

Las cortadoras SCHULTE usan balancías y componentes de sistema seleccionado para los portadores de cuchillas, cuchillas, eje de cortar, navaja, suspensiones de navajas, los rodillos, los componentes de línea mortiz, y cojinetes. Estas partes son echas y probadas a la especificaciones de SCHULTE. Partes que no son auténticas no regularmente llegan con estas especificaciones. El uso de partes que no son auténticas puede reducir el funcionamiento de la cortadora, anular garantías, y presentar un peligro de seguridad. Use partes de cortadora auténticas de SCHULTE por economía y seguridad. (SPSI-1 SP) str

CONTACTE A SU DISTRIBUIDOR SCHULTE

Manuales de Partes y Operador



www.aigqr.com/sms

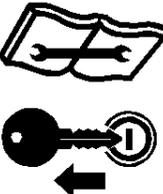
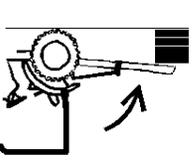
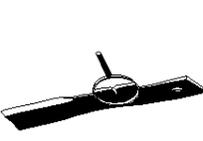
NOTA: Si necesita un manual completamente en español por favor de ponerse en contacto a: Translations, dirección 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529

FX-320/FX-214 05-25

Sección de Seguridad 1-16

SEGURIDAD

RIESGOS CON EL MANTENIMIENTO DEL IMPLEMENTO CONTINUADO

	Inspeccione periódicamente todas las partes móviles, lubrique las líneas de conducción y ajuste todas las sujeciones.
	Apague el motor. Quite la llave antes de realizar tareas de mantenimiento.
	Bloquee el implemento antes de repararlo. Utilice bloques grandes sobre suelo blando o húmedo
	Coloque las trabas de transporte cilíndricas
	Inspeccione las cuchillas para detectar fisuras o daños

MANTENGA LOS IMPLEMENTOS EN BUENAS CONDICIONES DE FUNCIONAMIENTO, A TRAVÉS DE UN SERVICIO, REPARACIÓN O MANTENIMIENTO APROPIADO.



REALICE LAS TAREAS DE SERVICIO, REPARACIÓN, LUBRICACIÓN Y MANTENIMIENTO QUE SE DESCRIBEN EN LA SECCIÓN DE MANTENIMIENTO DEL IMPLEMENTO:

- **INSPECCION** el implemento para detectar sujeciones sueltas, partes gastadas o rotas, ajustes sueltos o con filtraciones, que los pasadores tengan chavetas y arandelas, y las partes móviles para detectar el desgaste
- **REEMPLACE** todas las partes gastadas o rotas con repuestos autorizados.
- **LUBRIQUE** la unidad tal como se especifica en el cronograma de lubricación.
- **NUNCA** lubrique, ajuste o quite material mientras el equipo está en funcionamiento o movimiento.
- **AJUSTE** todas las tuercas y pernos tal como se especifica.
- **INSPECCION DE CUCHILLAS:**
- **REEMPLACE** las cuchillas dobladas, dañadas, agrietadas o rotas inmediatamente por cuchillas nuevas.
- **EVITE** fallas de las cuchillas y que vuelen trozos de cuchillas. NO enderece, suelde o suelde con superficies rígidas.
- **INSPECCION DE PROTECTORES DE SEGURIDAD, GUARDAS Y DISPOSITIVOS DE SEGURIDAD:**
- **MANTENGA** en su lugar y en buen estado todos los deflectores, protectores de cadena, protectores de acero, cubiertas de caja de engranajes, cubiertas integrales de PTO, bandas, faldones laterales y zapatas antideslizantes.

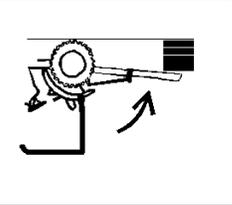
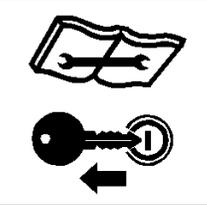
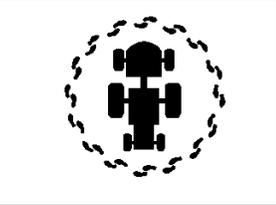
REEMPLACE cualquier protector, cubierta o dispositivo de seguridad faltante, roto o gastado.



Cáncer y daño reproductivo www.P65Warnings.ca.gov PN HM02 SP str

SEGURIDAD

RIESGOS CON EL MANTENIMIENTO DEL IMPLEMENTO

	Inspeccione las cuchillas para detectar daños o fisuras
	Coloque las trabas de transporte cilíndricas
	Bloquee el implemento antes de repararlo. Utilice bloques grandes sobre suelo blando o húmedo
	Apague el motor. Quite la llave antes de realizar tareas de mantenimiento.
	Inspeccione periódicamente todas las partes móviles, lubrique las líneas de conducción y ajuste todas las sujeciones.

MANTENGA LOS IMPLEMENTOS EN BUENAS CONDICIONES DE FUNCIONAMIENTO, A TRAVÉS DE UN SERVICIO, REPARACIÓN O MANTENIMIENTO APROPIADO.

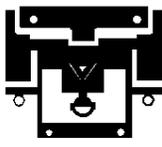
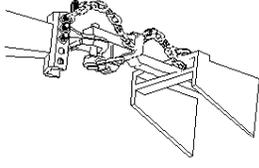


- ANTES DE REALIZAR TAREAS DE SERVICIO, REPARACIÓN Y MANTENIMIENTO DEL IMPLEMENTO:**
- **ASEGURE EL EQUIPO PARA EL SERVICIO**
 - **BLOQUE LOS RIESGOS POTENCIALES DE ENERGÍA:** piezas giratorias, componentes levantados, presión hidráulica.
 - **APAGUE EL MOTOR Y EL PTO**, coloque el freno de mano, descienda el implemento, espere a que se detengan todas las partes móviles y quite la llave antes de bajarse del tractor.
 - **COLOQUE** el implemento sobre el suelo o trabe de manera segura los equipos elevados. Utilice bloques grandes sobre suelo blando o húmedo.
 - **CIERRE FIRMEMENTE Y TRABE** las alas del implemento levantado.
 - **TRABE LA LENGUA DEL IMPLEMENTO** con bloques grandes y el gato de remoique. **NO** gatee o trabaje debajo del implemento solo sostenido por el gato de remoique.
 - **EMPUJE Y JALE** la palanca del Cilindro Hidráulico Remoto para liberar la presión hidráulica.
 - **DESCONECTE** las mangueras hidráulicas de implemento del tractor.
 - **DESCONECTE** la línea de conducción del **IMPLEMENTO** del **EJE DE PTO** del tractor
 - **USE GAFAS DE SEGURIDAD (con protecciones laterales marcadas para cumplir con ANSI Z87)** y **GUANTES PROTECTORES** y siga todos los **PROCEDIMIENTOS DE SEGURIDAD** al realizar tareas de servicio, reparación y mantenimiento sobre el implemento:
 - Siempre **USE GUANTES** protectores al manipular las hojas, cuchillas, bordes filosos o un componente desgastado con bordes filosos.
 - Siempre **USE GUAANTES Y GAFAS DE SEGURIDAD (con protecciones laterales marcadas para cumplir con ANSI Z87)** al reparar componentes en caliente
 - **EVITE EL CONTACTO** con tanques de aceite hidráulico, bombas, motores, válvulas y superficies de conexión de mangueras calientes.
 - **SUJETE FIRMEMENTE** o **TRABE EN POSICIÓN ELEVADA** todos los implementos, bastidores y componentes elevados antes de trabajar sobre los equipos que se encuentran debajo.
 - **DETENGA** el movimiento de todos los implementos y **APAGUE EL MOTOR DEL TRACTOR** antes de realizar ninguna tarea.
 - **USE** una escalera o gradas elevadas para alcanzar áreas altas del equipo a las que no se pueda acceder desde la tierra
 - **ASIGA** las instrucciones del fabricante sobre cómo manipular los lubricantes, solventes, limpiadores y otros agentes químicos
 - **SEGÚRESE** de estar bien apoyado sobre superficies sólidas planas al subirse al implemento para realizar tareas. **NO** cambie ninguna calibración hidráulica de fábrica para evitar fallas de los componentes o equipos
 - **NO** modifique o altere el implemento, las funciones o componentes.
 - **NO** SUELDE o repare los componentes de la cortadora. Esto puede causar vibraciones y fallas de los componentes que se desprendan de la cortadora. *PN HM01 SP str*

SEGURIDAD

SEGURIDAD

RIESGOS EN TRANSPORTE

	Use señales de SMV (vehículo de movimiento lento) y balizas
	Peligro de detención por pérdida de control
	Peligro de velocidad excesiva por pérdida de control
	Use la cadena de remolque de seguridad - Tractor a implementación
	Coloque las trabas de transporte

PARA EVITAR LESIONES GRAVES O LA MUERTE AL REMOLCAR O TRANSPORTAR EQUIPOS:



- **MANTENGA LA VELOCIDAD DE TRANSPORTE POR DEBAJO DE 20 millas por hora** para mantener el control del equipo.
- **REDUZCA LA VELOCIDAD** en terreno inclinado, en las curvas y en condiciones de remolque desfavorables.
- **NO REMOLQUE** camiones u otros vehículos
- **USE** un tractor de tamaño adecuado en función del equipo de remolque.
- **SIGA** todas las reglamentaciones de tránsito locales.

REQUISITOS DEL TRACTOR PARA REMOLCAR O TRANSPORTAR IMPLEMENTOS:

- **SOLO TRANSPORTE** en el tractor con el mecanismo **ROPS** (antivuelco) en posición elevada.
- **USE** un tractor de tamaño adecuado y equipado, que supere el peso del implemento en al menos un 20%.
- **MANTENGA EL 20% del peso del tractor** en las ruedas frontales para mantener la dirección en forma segura.

ANTES DE TRANSPORTAR O REMOLCAR EL IMPLEMENTO:

- **INSPECCIÓN DEL TRACTOR:**
- **VERIFIQUE** la dirección y los frenos para asegurarse el correcto funcionamiento y las condiciones adecuadas.
- **VERIFIQUE LLEVAR EL AVISO DE SMV**, los reflectores y las luces de advertencia para la adecuada operación y visibilidad detrás de la unidad.
- **VERIFIQUE** que no haya impedimentos a la visión mientras conduce, en el tractor, la cabina o el implemento, sentado en el asiento del tractor.
- **AJUSTE** su posición de conducción, los espejos y el transporte del implemento para tener una visión clara para condiciones de conducción y tránsito.

PREPARE EL IMPLEMENTO PARA EL TRANSPORTE O EL REMOLQUE:

- **COLOQUE LAS TRABAS PARA TRANSPORTE Y LAS CADENAS DE SEGURIDAD:**
- **ELEVE LA CORTADORA e INSTALE** topes o pasadores de transporte cilíndricos en el eje central
- **ELEVE LAS ALAS e INSTALE TRABAS DE TRANSPORTE** o pasadores.
- **AJUSTE LA CADENA DE SEGURIDAD** del implemento al tractor.
- **QUITTE** todo material cortado que se acumule en la plataforma de la cortadora.
- **CORTADORA AL REMOLQUE-INSTALE TRABAS DE TRANSPORTE Y CADENA DE SEGURIDAD:**
- **INSTALE** los paradores o pernos de transporte **en el cilindro de eje central.**
- **AJUSTE LA CADENA DE SEGURIDAD** del implemento al tractor.

DETERMINAR LAS CARACTERÍSTICAS DE DETENCIÓN DEL TRACTOR Y EL IMPLEMENTO PARA EL TRANSPORTE O

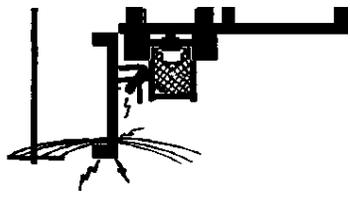
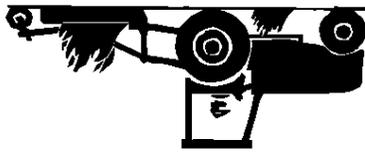
REMOLQUE:

- **PRUEBAS DE FRENADO:**
- **FRENE** a velocidades en aumento.
- **OBSERVE** las distancias de **DETECCIÓN** con el aumento de velocidad.
- **DETERMINE** la velocidad de transporte máxima segura que no supere las 20 millas por hora
- **DETERMINE LA VELOCIDAD DE GIRO MÁXIMA ANTES DE OPERAR EN CARRETERAS O TERRENO IRREGULAR:**
- **PONGA A PRUEBA** el equipo aumentando lentamente la velocidad en las curvas para determinar si se puede operar a mayor velocidad.
- **USE MENORES** velocidades de giro en las curvas pronunciadas para evitar el vuelco.
- **AL REMOLCAR O TRANSPORTAR EL EQUIPO:**
- **SIEMPRE USE EL CINTURÓN DE SEGURIDAD** al operar o transportar la cortadora.
- **USE** bajas velocidades para evitar el vuelco con las alas elevadas.
- **USE** bajas velocidades y dirección gradual en las curvas, colinas, o en superficies irregulares o poco uniformes, y en carreteras mojadas
- **ENCIENDA LAS BALIZAS DE ADVERTENCIA** del tractor.
- **TENGA EN CUENTA** el espacio necesario para el valvén del implemento en las curvas.
- **MANTENGA** todas las alas elevadas a 3 metros (10 pies) o una mayor distancia de todos los cables de alimentación y obstrucciones elevadas. *PN TH01 SP*

SEGURIDAD

SEGURIDAD

RIESGOS ELÉCTRICOS Y DE FUEGO

 <p>Contacto de ala con cables eléctricos elevados</p>	 <p>Riesgo de choque y explosión</p>	 <p>No opere cerca de fuego. Mantenga limpia la plataforma de la cortadora</p>
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▲ PELIGRO PARA EVITAR LESIONES GRAVES O LA MUERTE POR CONTACTO ELÉCTRICO AL TRABAJAR CERCA DE CABLES ELÉCTRICOS, LÍNEAS DE GAS Y DE SERVICIOS:

- **INSPECCIONE** el área de corte para que no interfiera con cables de alimentación eléctricos subterráneos, obstrucciones, líneas de gas, cables y servicios, estructuras municipales o de otro tipo.
- **MANTENGA** todas las alas elevadas a 3 metros (10 pies) o una mayor distancia de todos los cables de alimentación y obstrucciones elevadas..
- **NO** ponga en contacto la cortadora con ninguna estructura u obstrucción de servicios o municipales.
- **LLAME** AL 811 y al 1-800-258-0808 para identificar cables de servicios subterráneos.
- **PAUTAS DE PREVENCIÓN DE INCENDIOS** durante la operación, reparación y servicio de la cortadora y el tractor, a fin de reducir el riesgo de incendio del equipo y de la vegetación:
 - El tractor debe estar **EQUIPADO CON MATAFUEGOS**
 - **NO OPERE** la cortadora sobre un tractor equipado con escape debajo del bastidor
 - **NO FUME** ni acerque fuego directo a la cortadora o el tractor
 - **NO CONDUZCA** sobre residuos encendidos o en áreas recientemente quemadas
 - **EVITE LA FORMACIÓN DE CHISPAS** al no permitir que la hoja de la cortadora entre en contacto con objetos sólidos como metal o roca.
 - **AJUSTE LOS EMBRAGUES DESLIZANTES** para evitar el deslizamiento excesivo y el calentamiento de la placa del embrague.
 - **LIMPIE** todo resto de hierba o residuo acumulado alrededor de las líneas de conducción de la cortadora, los embragues deslizantes y cajas de cambios.
 - **APAGUE EL MOTOR** al cargar combustible. *PN EF01 SP str*

SEGURIDAD

RIESGO DE FILTRACION DE ACEITE HIDRÁULICO DE ALTA PRESIÓN

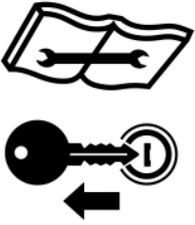
 <p>Penetración de aceite de alta presión en la piel</p>	 <p>Erosión de la piel por el aceite de alta presión</p>	 <p>Usar cartón para detectar filtraciones de aceite</p>
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▲ PELIGRO PARA EVITAR LESIONES GRAVES O LA MUERTE POR PENETRACIÓN DE FILTRACIONES DE ACEITE HIDRÁULICO DE ALTA PRESIÓN:

- **NO OPERE** el equipo con filtraciones de aceite o combustible
 - **MANTENGA** todas las mangueras hidráulicas, líneas y conexiones en **BUEN ESTADO** y **AJUSTADAS** antes de aplicar presión al sistema.
 - **LIBERE LA PRESIÓN HIDRÁULICA** antes de desconectar las líneas o trabajar en el sistema.
 - **QUITTE** y reemplace la manguera si sospecha que tiene filtraciones. Solicite al distribuidor que verifique si hay filtraciones.
- LAS FILTRACIONES DE LÍQUIDO DE ALTA PRESIÓN PUEDEN NO SER VISIBLES.**
- AL VERIFICAR FILTRACIONES HIDRÁULICAS Y TRABAJAR CERCA DE LOS SISTEMAS HIDRÁULICOS:**
- **SIEMPRE USE** gafas de seguridad y guantes impermeables.
 - **USE** papel o cartón para verificar si hay filtraciones.
 - **NO USE** las manos o partes del cuerpo para detectar filtraciones.
 - **MANTENGA** las manos y el cuerpo **LEJOS** de los orificios de clavijas y boquillas de eyección de fluido hidráulico. El fluido hidráulico puede causar gangrena si no es extirpado quirúrgicamente de inmediato por un médico especializado en este tipo de lesiones. *PN HP01 SP str*

SEGURIDAD

RIESGO DEL CONTACTO A LAS CUCHILLAS DE CORTADORA

		
Detenga el tractor. Quite la llave. Lea el Manual	No ponga el pie debajo de la cortadora	No ponga los dedos debajo de la cortadora

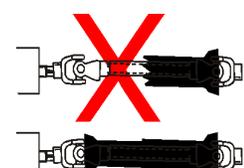
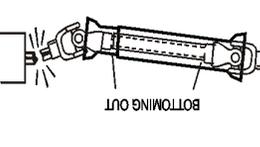
▲ PELIGRO MANTÉNGASE LEJOS DE LAS CUCHILLAS GIRATORIAS PARA EVITAR LESIONES GRAVES O LA MUERTE POR CONTACTO CON LA CUCHILLA:

- MANTÉNGASE LEJOS y NO ACERQUE LAS MANOS, LOS PIES y EL CUERPO a las cuchillas giratorias, líneas de conducción y partes hasta que todos los elementos móviles se hayan detenido.
- NO ponga las manos o los pies debajo de las plataformas de la cortadora.
- DETENGA las CUCHILLAS giratorias antes de elevar la plataforma de la cortadora o las alas.
- DETENGA la cortadora, EXAMÍNELA y PRESTE ATENCIÓN A LOS SONIDOS antes de acercarse a la cortadora para asegurarse de que se haya detenido todo el movimiento giratorio.
- Si se produce un bloqueo de material en las áreas de entrada y descarga de la cortadora, **APAGUE EL MOTOR DEL TRACTOR**, desenganche la toma de fuerza y espere a que todo movimiento de rotación se detenga. Coloque el tractor en posición de estacionamiento, ponga el freno de estacionamiento y retire la llave antes de abandonar el asiento del operador. Deje la obstrucción antes de proceder con la siega. Asegúrese de mantener los pies y las manos alejadas de las cuchillas de la cortadora. Si se eleva las alas del cortacésped o segadoras para acceder a la obstrucción, enganche las trabas de cierre y bloquee con seguridad la cortadora antes de colocar cualquier parte del cuerpo por debajo de la segadora.

PN MB01 SP str

SEGURIDAD

RIESGO DE ENREDO POR EL PTO

	<p>Peligro de enredo</p> <p>No se acerque o toque ningún eje de transmisión de PTO giratorio</p>
 <p>PTO (Barra Gítoria)</p>	<p>Asegúrese de que el eje de PTO esté firmemente sujetado. No use un adaptador de PTO</p>
	<p>No opere la máquina si las cubiertas de PTO están dañadas o faltantes</p>
 <p>BOTTOMING OUT</p>	<p>Asegúrese de que los ejes de PTO sean del largo adecuado</p>

⚠ PELIGRO

MANTÉNGASE ALEJADO DE LAS LÍNEAS DE CONDUCCIÓN Y OTROS ELEMENTOS GIRATORIOS PARA EVITAR LESIONES GRAVES O LA MUERTE:

MANTÉNGASE LEJOS Y NO ACERQUE las manos, los pies y el cuerpo a las cuchillas giratorias, líneas de conducción y partes hasta que todos los elementos móviles se hayan detenido.

DETENGA la cortadora, **EXAMÍNELA Y PRESTE ATENCIÓN A LOS SONIDOS** antes de acercarse a la cortadora para asegurarse de que se haya detenido todo el movimiento giratorio.

LOS ELEMENTOS GIRATORIOS SIGUEN ROTANDO una vez apagada la PTO.

PROTECCIÓN DE LA PTO:

PARA EVITAR LESIONES GRAVES O LA MUERTE POR ENREDO AL OPERAR EL IMPLEMENTO:

- MANTENGA** instalados los protectores, las cubiertas integrales de las líneas de conducción y las cubiertas de entrada
- NO OPERE** la cortadora si los protectores o cubiertas no están bien colocados o faltan.
- REEMPLACE O REPARÉLOS** si faltan, están dañados o rotos
- SIEMPRE REEMPLACE LOS PROTECTORES** que se han quitado para tareas de reparación o mantenimiento.

PARA EVITAR que la línea de conducción se rompa durante las operaciones:

- VERIFIQUE** que la línea de conducción tenga el largo adecuado entre el eje de PTO y el eje de la caja de cambios del implemento.
- Las líneas de conducción demasiado cortas se pueden soltar o romper.
- Las líneas de conducción demasiado largas pueden tocar el suelo.

- Un ensamble telescópico de la línea de conducción que toque el suelo no se deslizará y se solidificará.
- Si la línea de conducción toca el suelo, puede atravesar los cojinetes de soporte y romper el eje de PTO.
- EVITE** hacer curvas pronunciadas o elevar la cortadora a alturas que puedan hacer caer la línea de conducción.
- Lubrique los componentes telescópicos del eje de transmisión en forma semanal.

COMUNIQUESE CON EL DISTRIBUIDOR si la línea de conducción del implemento no coincide con el eje de PTO del tractor:

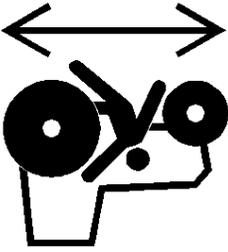
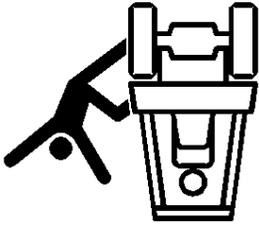
NO UTILICE UN ADAPTADOR DE PTO.

- El uso de un adaptador de PTO puede causar vibración excesiva, caída de objetos, fallas de las cuchillas y el implemento como consecuencia de la duplicación de la velocidad operativa. El aumento de la longitud de trabajo puede exponer áreas desprotegidas de la línea de conducción. *PN PE01 SPst*

SEGURIDAD

SEGURIDAD

RIESGO DE ATROPELLO

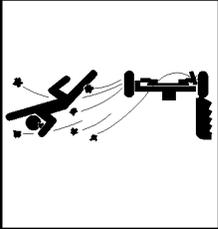
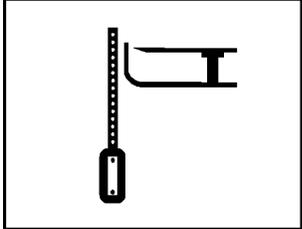
		
Riesgo de atropello del operador	Riesgo de atropello por caída del operador	Riesgo de atropello por caída del operador

▲ PELIGRO PARA EVITAR LESIONES GRAVES O LA MUERTE POR CAÍDA DEL TRACTOR O ATROPELLO DEL EQUIPO:

- USE tractores equipados con SISTEMA ANTIVUELCO (ROPS) y CINTURONES DE SEGURIDAD para las operaciones de corte.
 - MANTENGA EL SISTEMA ROPS trabado en posición vertical.
 - SÓLO ENCIENDA el tractor sentado en el asiento del tractor.
 - SIEMPRE ABRÓCHESE el cinturón de seguridad al operar el tractor y los equipos.
 - SÓLO OPERE el tractor y el equipo sentado en el asiento del tractor.
 - NUNCA LLEVE A OTRAS PERSONAS en el tractor o implemento.
- AL SUBIR Y BAJAR DEL TRACTOR:**
- SÓLO suba o baje del tractor cuando éste y sus partes móviles estén detenidos.
 - APAGUE EL MOTOR Y LA TDF, coloque el freno de mano, descienda del implemento, espere a que se detengan todas las partes móviles y quite la llave antes de bajarse del tractor. *PN R001 SP str*

SEGURIDAD

RIESGO DE OBJETOS LANZADOS Continuada

 <p>Peligro de objetos lanzados por la cortadora</p>	 <p>Objetos lanzados desde cortadora elevada</p>	 <p>Objetos lanzados desde cortadora elevada</p>	 <p>Inspeccione el área. Quite los objetos extraños</p>	 <p>No permita que las cuchillas entren en contacto con objetos sólidos</p>
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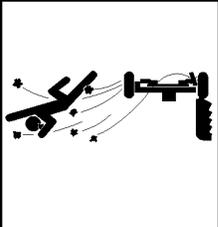
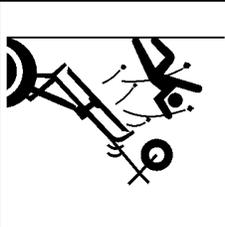
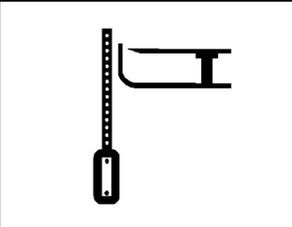
OPERACIÓN DE LA CORTADORA:

- **NO** exceda la capacidad de corte nominal de la cortadora, ni corte elementos que no sean vegetación.
- **USE CABINAS DE TRACTOR CERRADAS** cuando haya dos o más cortadoras operando en un mismo sector.
- No opere la cortadora en áreas susceptibles al ataque de abejas o insectos, salvo que **USE PRENDAS PROTECTORAS** o una cabina de tractor cerrada.
- **AJUSTE LA ALTURA** de corte para **EVITAR EL CONTACTO DE LAS CUCHILLAS** con objetos sólidos, como alambres, piedras, postes, cordones, guardarralles y obstrucciones fijas.
- **NO** opere la cortadora con la(s) ala(s) elevada(s) o en posición de transporte.
- **DETENGA LA CORTADORA** de inmediato si las cuchillas entran en contacto con objetos pesados, estructuras fijas, guardarralles de metal y estructuras de cemento. Apague el motor del tractor, desenganche la toma de fuerza y esperar a que todo movimiento de rotación se detenga. Coloque el tractor en posición de estacionamiento, ponga el freno de estacionamiento y retire la llave antes de abandonar el asiento del operador.
- **1. LAS CUCHILLAS PUEDEN FALAR** con el impacto y los objetos pueden ser arrojados a gran velocidad.
- **2. INSPECCION Y REEMPLACE** las cuchillas dañadas.
- **3. VERIFIQUE** el equilibrio del porta cuchillas y **REEMPLÁCELO** si está dañado..
- **NO** opere la cortadora en agua **PARA EVITAR** una posible **FALLA DE LAS CUCHILLAS**.
- **EVITE OPERAR LA CORTADORA** en reversa.
- **1. DETENGA EL PTO** y retroceda la cortadora.
- **2. DESCienda** la cortadora, encienda el **PTO** y corte hacia adelante.
- **DETENGA EL PTO** y las **CUCHILLAS** al elevar el implemento o la cortadora a posición de transporte.
- **NO** encienda el **PTO** con la cortadora en posición de transporte.
- **DETENGA** la cortadora cuando se produzca **VIBRACIÓN EXCESIVA**:
- **1. DETENGA EL PTO Y EL MOTOR** del tractor.
- **2. INSPECCION** la cortadora para detectar la fuente de la vibración
- **3. REEMPLACE** toda parte dañada o las **CUCHILLAS** dobladas o dañadas. **PN T001-X SP str**

SEGURIDAD

SEGURIDAD

RIESGO DE OBJETOS LANZADOS

	Peligro de objetos lanzados por la cortadora
	Objetos lanzados desde cortadora elevada
	Objetos lanzados desde cortadora elevada
	Inspeccione el área. Quite los objetos extraños
	No permita que las cuchillas entren en contacto con objetos sólidos

▲ PELIGRO LAS CORTADORAS GIRATORIAS PUEDEN ARROJAR OBJETOS A 90 METROS (300 PIES) O MÁS EN CONDICIONES ADVERSAS.

PARA EVITAR LESIONES GRAVES O LA MUERTE AL OPERADOR O TRANSEÚNTES COMO CONSECUENCIA DE OBJETOS

ARROJADOS:

• **MANTENGA** a los transeúntes a 100 metros de distancia (300 pies)

• **NO OPERE LA CORTADORA SI HAY PERSONAS A MENOS DE 100 METROS(300 PIES), SALVO QUE:**

• Todos los **PROTECTORES CONTRA OBJETOS ARROJADOS** estén colocados y en buen funcionamiento al operar la cortadora, entre los que se incluyen los deflectores frontales y traseros, los protectores de cadena, los protectores de acero, las bandas, los faldones laterales y las zapatas antideslizantes.

• Se ha inspeccionado el **ÁREA DE CORTE** y se han quitado todos los materiales extraños y residuos.

• **LOS TRANSEÚNTES** estén en el interior de un vehículo cerrado.

ANTES DE OPERAR LA CORTADORA, INSPECCIONE EL ÁREA PARA DETECTAR LA POSIBILIDAD DE OBJETOS QUE PUEDAN SER LANZADOS:

• **QUITE** residuos, piedras, cables, alambres, objetos metálicos y cualquier otro objetos extraños del área. Los alambres, cables, sogas, cadenas y objetos metálicos pueden ser arrojados o salir desprendidos de la plataforma a gran velocidad:

• **No permita** que las cuchillas de la cortadora entren en contacto con cadáveres de animales en descomposición o otros materiales peligrosos. Las cuchillas de la cortadora podrían arrojar materiales peligrosos y biológicos de la cortadora,

• exponiendo al operador y personas presentes a riesgos de salud. Siempre use el equipo de protección personal (PPE) aprobado por OSHA cuando limpie o retire material potencialmente peligroso de equipo.

1. **MARQUE** los objetos que no se puedan quitar.

2. **EVITE** estos objetos cuando use la cortadora.

INSPECCION DEL ÁREA PARA DETECTAR HIERBA ALTA Y MALEZAS:

• **INSPECCIONE Y quite** cualquier residuo oculto de gran tamaño.

• **PASE LA CORTADORA** a una altura intermedia

• **INSPECCIONE** y quite el residuo restante

• **PASE LA CORTADORA** a la altura final

PROTECCIÓN CONTRA OBJETOS ARROJADOS DE LA CORTADORA:

• **MANTENGA** todos los protectores contra objetos arrojados en su lugar y en buen funcionamiento al operar la cortadora, entre los que se incluyen los deflectores frontales y traseros, los protectores de cadena, los protectores de acero, las bandas, los faldones laterales y las zapatas antideslizantes.

• **NO OPERE LA CORTADORA** si falta algún protector contra objetos arrojados, o si éstos están dañados.

• **DERECHO DE PASO (autopista) CON LA CORTADORA**

• **UTILICE PROTECTORES DE CADENA DOBLES** para autopistas, derecho de paso, parques o cortes en cinturón verde donde

• Ninguna protección ofrece una eficacia del 100% en la prevención de objetos arrojados. Para reducir la posibilidad de que se produzcan lesiones:

1. **MANTENGA LOS PROTECTORES DE LA CORTADORA**, los faldones laterales, las zapatas antideslizantes y las cuchillas en buen estado de funcionamiento,

2. **ELEVE LA ALTURA DE CORTE a 15 CM (6 PULGADAS)** como mínimo,

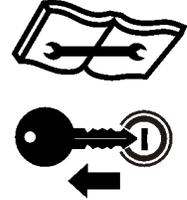
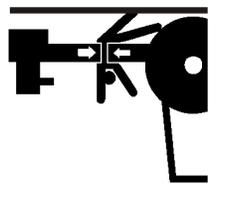
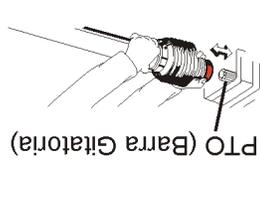
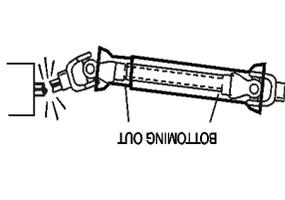
3. **INSPECCIONE EL ÁREA** con cuidado antes de pasar la cortadora para **ELIMINAR** el posible riesgo de **OBJETOS ARROJADOS**,

4. **NUNCA PERMITA QUE LAS CUCHILLAS EN MOVIMIENTO ENTREN EN CONTACTO CON OBJETOS SÓLIDOS** como alam-

pres, piedras, postes, cordones, guardarraíles o el suelo. **PN T001 SP str**

SEGURIDAD

SEGURIDAD DE CONECTAR O DESCONECTAR IMPLEMENTO

 <p>Detenga el tractor Quite la llave Lea el Manual</p>	 <p>Lesión opresiva entre tractor e implemento</p>	 <p>Lesión aplastante por caída de ala</p>	 <p>PTO (Barra Gítoria)</p>	 <p>Asegúrese de que el eje de TDF sea del largo adecuado</p>
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PARA EVITAR LESIONES GRAVES O LA MUERTE POR APLASTAMIENTO POR EL TRACTOR O IMPLEMENTO:

- **AL DAR MARCHA ATRAS** el tractor hacia el enganche del implemento:
- **NO PERMITA QUE HAYA PERSONAS** entre el tractor y el implemento
- **ANTES de conectar y desconectar el enganche del implemento:**
- **APAGUE EL MOTOR DEL TRACTOR**, coloque la palanca en "estacionar", ponga el freno de mano y saque la llave.
- **Al conectar y desconectar el enganche del implemento:**
- **NO** se agache o camine debajo de la cortadora o la ala en posición elevada.
- **USE** el **GATO** con lengüeta para elevar lengüetas de implementos pesados a fin de controlar el movimiento de la lengüeta del implemento.
- **EVITE** recargar el gato para evitar una falla de éste y una lesión al operador.

AL CONECTAR LA LÍNEA DE CONDUCCIÓN DEL IMPLEMENTO:

- **PARA EVITAR que la línea de conducción del implemento se suelte durante la operación:**
- **LUBRIQUE** el anillo de cierre del resorte del yugo para asegurarse de que se deslice libremente sobre el eje de **PTO**
- **ASEGURE** las bolas de cierre del yugo en la muesca del eje de **PTO**.
- **PRESIONE y JALE DE LA LÍNEA DE CONDUCCIÓN del EJE DE TOMA DE FUERZA(PTO)** del tractor y del implemento para asegurarse de que estén **FIRMEMENTE SUJETADOS**
- **PARA EVITAR que la línea de conducción se rompa durante las operaciones:**
- **VERIFIQUE** que la línea de conducción tenga el largo adecuado entre el eje de **PTO** y el eje de la caja de cambios del implemento.
- Las líneas de conducción demasiado cortas se pueden soltar o romper.
- Las líneas de conducción demasiado largas pueden tocar el suelo.
- Un ensamble telescópico de la línea de conducción que toque el suelo no se deslizará y se solidificará.
- Si la línea de conducción toca el suelo, puede atravesar los cojinetes de soporte y romper el eje de **PTO**.

COMUNIQUESE CON EL DISTRIBUIDOR si la línea de conducción del implemento no coincide con el eje de TDF del tractor:

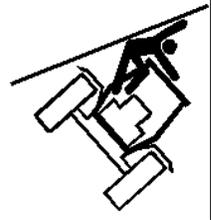
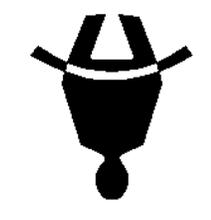
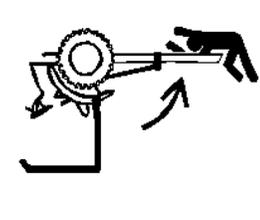
- **NO UTILICE UN ADAPTADOR DE PTO.**
- El uso de un adaptador de **PTO** puede ocasionar:
- Vibración excesiva, caída de objetos, fallas de la hoja y el implemento como consecuencia de la duplicación de la velocidad operativa.
- Mayor extensión de trabajo, lo que deja expuestas áreas desprotegidas de la línea de conducción e implica el riesgo de enredo con otros objetos.

ANTES DE QUITAR LAS TRABAS DE RETENCIÓN DE LAS ALAS:

- **CONECTE** las mangueras al tractor
- **LLENE** los cilindros de las alas con lubricante
- **MANTENGA** a los transeúntes lejos del área antes de operar las alas
- **DESCIENDA LAS ALAS** de manera lenta y cuidadosa.
- **NO** conecte la cortadora a un tractor con la TDF directamente conectada a la transmisión del tractor. *PN CD01 SP str*

SEGURIDAD

RIESGO DE APLASTAMIENTO

	Lesión aplastante por vuelco
	Trabe el sistema ROPS (antivuelco) en la posición vertical
	Siempre utilice cinturón de seguridad
	Lesión aplastante por caída de implemento
	Lesión aplastante por caída de ala

▲ PELIGRO PARA EVITAR UNA LESIÓN GRAVE O LA MUERTE POR CAÍDA DEL TRACTOR, O EL APLASTAMIENTO, VUELCO Y APLASTAMIENTO DE UN EQUIPO POR LA CAÍDA DE UNA ALA O UN IMPLEMENTO:

- USE tractores equipados con **SISTEMA ANTIVUELCO (ROPS) y CINTURONES DE SEGURIDAD** para las operaciones de corte
- **MANTENGA EL SISTEMA ROPS** trabado en posición vertical.
- **SIEMPRE ABROCHESE** el cinturón de seguridad al operar el tractor y los equipos.
- **SOLO OPERE** el tractor y el equipo sentado en el asiento del tractor.
- **EN CASO DE EMERGENCIA**, apague el motor del tractor, desenganche la toma de fuerza y espere a que todo movimiento de rotación se detenga. Coloque el tractor en posición de estacionamiento, ponga el freno de estacionamiento y retire la llave antes de abandonar el asiento del operador.

AL ELEVAR O DESCENDER EL IMPLEMENTO:

- Eleve o descienda las alas **SOLO CUANDO ESTÉ SENTADO** en el asiento del tractor, con el cinturón de seguridad ajustado.
- Eleve o descienda las alas **SOLO** cuando la lengüeta del implemento esté firmemente ajustada a la barra de tracción del tractor **PARA EVITAR** el vuelco del implemento.
- **MANTENGA A LOS TRANSEUNTES FUERA** del área de operación **PARA EVITAR** accidentes por aplastamiento.
- **MANTENGA** suficiente espacio libre alrededor de los implementos y alas **PARA EVITAR** el contacto con edificios o cables elevados.

▲ ADVERTENCIA PARA EVITAR LA CAÍDA DEL EQUIPO al trabajar cerca o debajo de los componentes o implementos elevados por un enganche de tractor de 3 puntos:

- **SUJETE CON FIRMEZA** o bloquee en posición vertical todos los equipos, alas y componentes elevados.
- **BLOQUEE EN POSICIÓN VERTICAL** y sujete con firmeza el equipo antes de poner las manos, los pies o el cuerpo debajo de los equipos o componentes elevados.
- **MANTENGA A LOS TRANSEUNTES LEJOS** de las alas dobladas hasta que estén bloqueadas o trabadas en posición vertical.

AL ESTACIONAR el implemento y el tractor:

- **DESCIENDA** el implemento, **TRABE** o **BLOQUEE** las partes elevadas antes de alejarse del equipo.
- **NUNCA** deje un implemento sin atención en posición elevada.

▲ ADVERTENCIA

•NUNCA DEJE que los niños jueguen sobre el tractor o los implementos, ni en sus alrededores.

AL DESENGANCHAR EL IMPLEMENTO:

- **DESCIENDA** el implemento, **TRABE** o **BLOQUEE** las partes elevadas antes de alejarse del equipo.
- **USE** el gato de la lengüeta para controlar el movimiento de la lengüeta del implemento.
- **USE** el **GATO** de la lengüeta para elevar lengüetas de implementos pesados.
- **EVITE** recargar el gato para evitar fallar al gato y una lesión al operador.

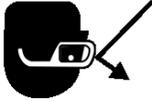
ANTES DE QUITAR LAS TRABAS DE RETENCIÓN DE LAS ALAS:

- **CONECTE** las mangueras al tractor
- **LLENE** los cilindros de las alas con lubricante
- **MANTENGA** a los transeuntes lejos del área de funcionamiento de las alas
- **DESCIENDA** LAS ALAS de manera lenta y cuidadosa. *PN CH01 SP str*

SEGURIDAD

SEGURIDAD

SEGURIDAD DEL OPERADOR

	Lea con atención el Manual del Operador
	Siempre use gafas de seguridad
	Use casco y calzado protector
	Nunca consuma drogas o alcohol mientras opera el equipo
	Utilice chaleco de seguridad al operar en o cercas de carreteras

PARA EVITAR LESIONES GRAVES O LA MUERTE, SIGA LAS SIGUIENTES INSTRUCCIONES:



- **LEA, COMPRENDA Y SIGA** las instrucciones del Manual del Operador, al igual que las Advertencias y Mensajes de Seguridad.
- **USE GAFAS DE SEGURIDAD**, calzado protector, casco, protección auditiva y guantes al operar o reparar el equipo.
- **USE** un aparato de respiración apropiado al operar en condiciones polvorientas a fin de evitar contraer enfermedades respiratorias.
- **NO USE** prendas sueltas o joyas que se puedan enredar con las partes giratorias y causar una lesión.
- **NO CONSUMA DROGAS** o **ALCOHOL** antes o durante la operación del equipo.
- **NO PERMITA** que nadie opere el equipo bajo los efectos negativos de las drogas o el alcohol.
- **CONSULTE** a un médico para conocer los efectos desfavorables de la medicación sobre los sentidos.
- **MANTÉNGASE ALERTA**, la operación prolongada puede causar fatiga. **HAGA UNA PAUSA Y DESCANSE**.

SEGURIDAD DE OPERACIÓN GENERAL

CONDICIONES DE VISIBILIDAD AL USAR LA CORTADORA:

- **OPERE LA CORTADORA CON LUZ SOLAR** o con luz que aporte una visibilidad nítida de más de 90 metros (100 yardas).
- **DEBE PODER VISUALIZAR** e identificar transeúntes, terrenos empinados, pozos, desniveles, obstrucciones elevadas, cables de alimentación, residuos y objetos extraños.

VELOCIDAD RESPECTO AL SUELO AL USAR LA CORTADORA:

- El rango de **VELOCIDAD NORMAL** es de entre 2 y 5 millas por hora.
- **AJUSTE LA VELOCIDAD DE CORTE** según las condiciones del terreno y el tipo de césped, la densidad y la altura del corte.
- **REDUZCA LA VELOCIDAD DE CORTE** al acercarse a inclinaciones empinadas, pozos, desniveles, obstrucciones elevadas, cables de alimentación y para evitar residuos y objetos extraños.

INFESTACIÓN CON INSECTOS

- No opere en áreas susceptibles al ataque de abejas o insectos, salvo que **USE PRENDAS PROTECTORAS** o una cabina de tractor cerrada.

VELOCIDAD DE PTO:

- **NO EXCEDA LA VELOCIDAD DE PTO NOMINAL DEL IMPLEMENTO**

- **EVITE** superar las velocidades nominales de PTO, porque puede causar roturas en la línea de conducción o fallas de las cuchillas.

SEÑALES DE SEGURIDAD:

- **REEMPLACE** cualquier señal de seguridad faltante, dañada o ilegible. *PN 0501 SP str*

SEGURIDAD

INSTRUCCIONES DE SEGURIDAD Y PRÁCTICAS GENERALES

El mejor operador es un operador cuidadoso. La seguridad es de importancia fundamental para el fabricante, y también debería serlo para el propietario u operador. La mayoría de los accidentes se pueden evitar prestando suma atención al equipo, al ambiente circundante, y tomando algunas precauciones. La primera sección de este manual incluye una lista de Mensajes de Seguridad que deben observarse para contribuir a la protección del operador y otras personas frente a lesiones o la muerte. Lea con atención estos Mensajes de Seguridad antes de ensamblar, operar o reparar este implemento. Este equipo sólo debe ser operado por personas que hayan leído el manual, responsables y calificadas, que sepan cómo hacerlo de manera responsable.

El Símbolo de Alerta de Seguridad se utiliza en combinación con una Señal Verbal, tal como la que se muestra a continuación, en todo este manual y en los autoadhesivos adheridos a los equipos. El Símbolo de Alerta de Seguridad significa:



“¡ATENCIÓN! MANTÉNGASE ALERTA! SU SEGURIDAD ESTÁ EN JUEGO!” El Símbolo y la Señal Verbal tienen el objetivo de advertir al propietario/operador sobre un riesgo inminente y el grado de lesión que se puede producir al operar este equipo.

Adopte todas las medidas habituales para trabajar en forma segura y, sobre todo, recuerde que la seguridad depende de USTED. Sólo USTED puede impedir una lesión grave o la muerte a causa de prácticas no seguras.

▲ PELIGRO Indica una situación peligrosa inminente que, de no ser evitada, OCASIONARÁ la MUERTE O UNA LESIÓN MUY GRAVE.

▲ ADVERTENCIA Indica una situación peligrosa inminente que, de no ser evitada, PODRÍA OCASIONAR la MUERTE O UNA LESIÓN MUY GRAVE.

▲ PRECAUCIÓN Indica una situación peligrosa inminente que, de no ser evitada, PODRÍA OCASIONAR UNA LESIÓN MENOR.

Importante Identifica instrucciones o procedimientos específicos que, de no observarse estrictamente, podrían ocasionar daños o la destrucción de la maquinaria, los accesorios o el entorno.

NOTA: Identifica aspectos de particular interés para lograr una operación o reparación más eficiente y conveniente.

LEA CON ATENCIÓN Y RESPETE los siguientes Mensajes de Seguridad. Si no se siguen cuidadosamente las advertencias e instrucciones indicadas en este Manual y en los Mensajes de Seguridad del implemento, se pueden producir lesiones graves o la muerte. Siempre siga las instrucciones de este manual y use el sentido común para evitar situaciones peligrosas. Los pictogramas se utilizan a lo largo de este manual para ayudar a que su atención visual se centre en los problemas de seguridad.



PELIGRO DE SEGURIDAD	PROCEDIMIENTO DE EVITACIÓN	PREVENCIÓN DE SEGURIDAD
<p>El pictograma rodeado por un triángulo indica un peligro de seguridad que debe evitarse.</p> <p>EJEMPLO:</p> <p>Equipo en contacto con líneas eléctricas aéreas</p>	<p>El pictograma por sí mismo o dentro de una caja indica un procedimiento de evitación que se debe seguir para evitar lesiones.</p> <p>EJEMPLO:</p> <p>Apaque siempre el motor y retire la llave antes de trabajar en el equipo.</p>	<p>Un círculo con una barra indica una acción que está prohibida.</p> <p>EJEMPLO:</p> <p>No FUMAR</p>

NOTA: Si desea obtener una traducción de esta sección de seguridad en alguno de los siguientes idiomas, comuníquese con: Translations, a la dirección 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529; La Sección de Seguridad está disponible en español, portugués, francés, alemán, ruso. PN 6501 SPstr

SECCIÓN DE SEGURIDAD

Sección de Seguridad 1-1

Instrucciones de operaciones antes de la entrega del DISTRIBUIDOR al CLIENTE

El distribuidor deberá informar al comprador de este producto las condiciones, disposiciones y procedimientos de garantía aplicables; informar la responsabilidad del comprador de capacitar a sus operadores para la operación segura; revisar el contenido del Manual del Operador, incluido el equipo de seguridad, la operación segura y el mantenimiento; y revisar las Señales de Seguridad que se encuentran en el implemento (y en el tractor, de ser posible).

- **IMPLEMENTOS:** He explicado que los deflectores, protectores de cadena o faldones sólidos se deben mantener en buenas condiciones de reparación y se deben instalar, excepto en zonas donde personas, vehículos, ganado u otros bienes no corran peligro por objetos arrojados, y en los casos en que dichos equipos de seguridad impedirían un desempeño razonable de la cortadora en su tarea asignada.
- **LÍNEAS DE CONDUCCIÓN:** Me he asegurado de que todos los protectores de líneas de conducción, de caja de engranajes y otros están en buenas condiciones de reparación y firmemente sujetos para prevenir lesiones por entredo u objetos arrojados.
- **MAQUINAS HIDRÁULICAS:** He explicado la necesidad de usar aceite hidráulico limpio, cambiar los filtros según las instrucciones, detener filtraciones, prevenir daños por operar con aceite demasado caliente, cuidar las mangueras, usar mangueras del tipo correcto, mantener la presión operativa especificada y prevenir el posible riesgo de que el aceite penetre en la piel.
- **IMPLEMENTOS PLEGABLES:** He explicado que no es posible proteger contra objetos arrojados cuando el cabezal está elevado del suelo y que el operador es responsable de verificar que no existan personas en las inmediaciones. He explicado que el brazo o cabezal de cortadora elevado puede entrar en contacto con obstrucciones elevadas y dañar cables y líneas telefónicas, y posiblemente causar lesiones. He explicado que el brazo o cabezal extendido, o el brazo retraído, puede entrar en contacto con cables de alimentación y causar lesiones o la muerte por electrocución, y que el operador es responsable de evitar dichos riesgos.

SERVICIO ANTES DE LA ENTREGA

VERIFIQUE Y AJUSTE O LUBRIQUE SEGUN SEA NECESARIO

Consulte los detalles en el Manual del Operador

Inspección realizada – Garantía y procedimientos de seguridad explicados – Instalación realizada

CONEXIONES DE CORTADORA A TRACTOR

- o Longitud de barra de enganche (verificar y fijar)
- o Pivote y conexiones de bastidor en A
- o Altura de eje (ajustar)
- o Altura de corte (ajustar)
- o Verificación de pre-operación de kit de montaje
- o Aleta de cortadora (ajustar nivel con el centro)
- o Aleta de cortadora (verificar operación de elevación correcta)
- o Líneas de conducción C.V.(verificar radio de giro máximo)
- o Enganche de tracción (ajuste de altura)

ELEMENTOS DE SEGURIDAD

- o Piezas metálicas de montaje bien ajustadas
- o Protectores (operación e instalación)
- o Embrague de línea de conducción (limitador de ajuste)
- o Autoadhesivos de seguridad (colocados)
- o Manual del Operador (entregado)
- o Protector de TDF del tractor (instalado)
- o Emblema S.M.V. (instalado de ser necesario)
- o Gato con lengüeta (instalación y operación)
- o Cadena de remolque de seguridad (instalada)
- o Manual de Seguridad de Línea de Conducción ADMA (entregado)
- o Manual de Seguridad de Cortadora AEM (entregado en porta manual)
- o Se mostró el Video de Seguridad de Cortadora AEM al comprador

LUBRICACIÓN E HIDRÁULICA

- o Caja de engranajes (niveles de aceite)
- o Nivel de aceite hidráulico (tanque externo)
- o Nivel de aceite hidráulico del tractor
- o Mangueras hidráulicas (no retorcidas y ajustadas)
- o Propulsor de bomba frontal (conjunto ajustado y eje bien alineado)
- o Pernos de husillo y motor bien ajustados
- o Nivel de aceite del husillo
- o Pernos de porta cuchillas bien ajustados/pasadores de retención colocados
- o Nivel y altura de corte de la cortadora ajustados
- o Cojinetes del eje de corte lubricados
- o Todas las piezas metálicas bien ajustadas
- o Presión de aire y neumáticos/tuercas de rueda (bien ajustadas)
- o Cojinetes de rueda (verificar, engrasar y hacer carga previa)

ACCESORIOS E INSTALACIÓN

- o Deflectores frontales y traseros
- o Accesorios de trituración
- o Sentido de giro de las hojas correcto
- o Vigas y brazos de eje
- o Lengüeta y barras de control (instaladas y ajustadas)
- o Todos los pernos, pasadores y tuercas (ajuste correcto)

Schulte está dispuesto a suministrar un (1) Video de Prácticas de Seguridad para Cortadoras AEM

Por favor enviar:

- Video de Seguridad para el Operador de Cortadoras AEM/FEMA – formato VHS
- Video de Seguridad para el Operador de Cortadoras AEM/FEMA – formato DVD
- Manual del Operador de la Cortadora
- Manual de Seguridad del Operador de la Cortadora AEM

Nombre del solicitante: _____ Teléfono: _____

Dirección del solicitante _____

Ciudad: _____

Estado: _____

Código postal _____

Modelo de cortadora: _____ Número de serie: _____

Fecha de compra: _____ Vendedor del distribuidor: _____

Nombre del distribuidor: _____ Dirección del distribuidor: _____

Enviar por correo a:

AEM Video Services
1502 E. Walnut Street
Seguin, TX 78155

O enviar por fax a:

(830) 372-9529

O enviar por correo electrónico a:

AEMVideo@alamo-group.com

A fin de reducir la tasa de accidentes y mejorar la operación segura de las cortadoras, Schulte se ha asociado con otros fabricantes de la industria para desarrollar el video y la guía de Prácticas de Seguridad para Cortadoras Industriales y Agrícolas AEM/FEMA.

El video explica a los operadores de tractores y cortadoras las prácticas seguras que deben adoptar cuando utilizan cortadoras industriales y agrícolas. Es importante que todos los operadores de cortadoras aprendan cómo operar sus equipos de corte y puedan reconocer los posibles peligros que pueden surgir al operar una cortadora. Este video, en conjunto con el manual del operador de la cortadora y los mensajes de advertencia que se encuentran en la cortadora, serán muy útiles para complementar este aprendizaje tan importante.

Es posible que su distribuidor autorizado de Schulte le haya mostrado este video y le haya entregado una copia en DVD cuando adquirió su cortadora. Si usted o algún operador de cortadora no vio el video, lea este Manual del Operador, y complete la Guía del Video antes de operar su cortadora nueva. Si no comprende alguna de las instrucciones del video o del manual del operador, o si tiene alguna pregunta acerca de la operación segura, comuníquese con su supervisor, con el distribuidor o con Schulte.

Si desea recibir una copia del video en VHS, envíe un mensaje de correo electrónico a AEMVideo@alamo-group.com o un fax al (830) 372-9529, o envíe por correo una copia rellena del formulario que se encuentra al dorso de esta página a AEM VHS Video 1502 E Walnut Street, Seguin, TX 78155, y solicite la versión en VHS. Indique su nombre, dirección postal, modelo de cortadora y número de serie.

Cada uno de los operadores debe recibir capacitación para cada equipo (tractor y cortadora), comprender el uso previsto, y comprender los posibles peligros antes de operar el equipo.

La información y material mecionado en la información anterior junto con el Manual de Operador puede asistir en cumplir con los requisitos de OSHA para el entrenamiento anual del Operador.

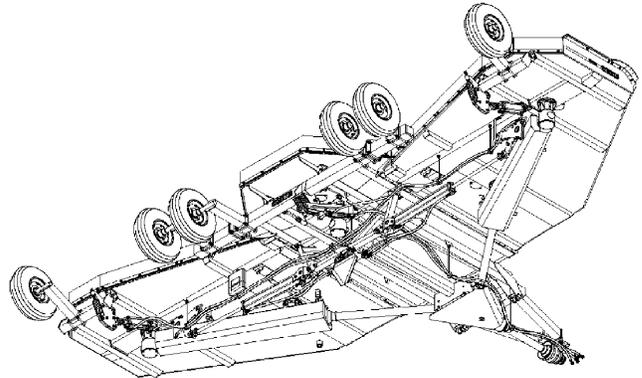
REQUISITOS DE ENTRENAMIENTO DEL OSHA

Los siguientes requisitos de entrenamiento se an toma del Título 29, código de la pieza de regulaciones federales 1928.57 (a) (6). www.osha.gov

Instrucciones del operador. A la hora de la asignación inicial y por lo menos anualmente después de eso, el empleador mandará a cada empleado quien opera un tractor agrícola o implemento en las practicas de operación segura y el mantenimiento de el equipo con el cual el empleado este, o estará implicado y de cualquier otras practicas dictados por el ambiente laboral.

SCHULTE®

Entrenamiento de Seguridad Hace la Diferencia



➤ **Sea Seguro**

➤ **Sea Alerto**

➤ **Sea Vivo**

➤ **Sea Entrenado**

**antes de funcionar
el cortacésped**



Video de Seguridad

www.aligqr.com/svs

Al propietario/operador/distribuidor

Este Manual del Operador es una parte esencial de la operación segura de esta máquina y se debe mantener con la unidad siempre. El implemento incluye un porta manual donde se puede guardar el manual de manera adecuada. Si el manual se extrae o se daña, puede solicitar otra copia sin cargo a un distribuidor autorizado de *Schulte* o descargarlo del sitio web de *Schulte* (www.schulte.ca).

ANTES DE COMENZAR LEA, COMPARENDA Y SIGA la información incluida en este manual, el Manual de Seguridad de la Cortadora AEM y el manual del operador del tractor para conocer cómo operar la máquina y realizar tareas de servicio correctamente. De lo contrario, podría sufrir lesiones u ocasionar lesiones a terceros. Todos los implementos con partes móviles son potencialmente peligrosos. Cada esfuerzo ha sido hecho para asegurar que la máquina esté segura, pero los operadores deben evitar entrar en prácticas peligrosas y seguir las instrucciones escritas que son proporcionadas. El fabricante ha diseñado este implemento para ser usado con todos sus equipos de seguridad correctamente sujetados para minimizar la probabilidad de accidentes.

LA SEGURIDAD PRIMERO. Lea con atención la totalidad de la sección de seguridad de este manual antes de operar el equipo. No permita que nadie opere el equipo sin haber leído y comprendido la totalidad de este manual. Comuníquese con el distribuidor si necesita explicación sobre alguna instrucción que no haya comprendido del todo.

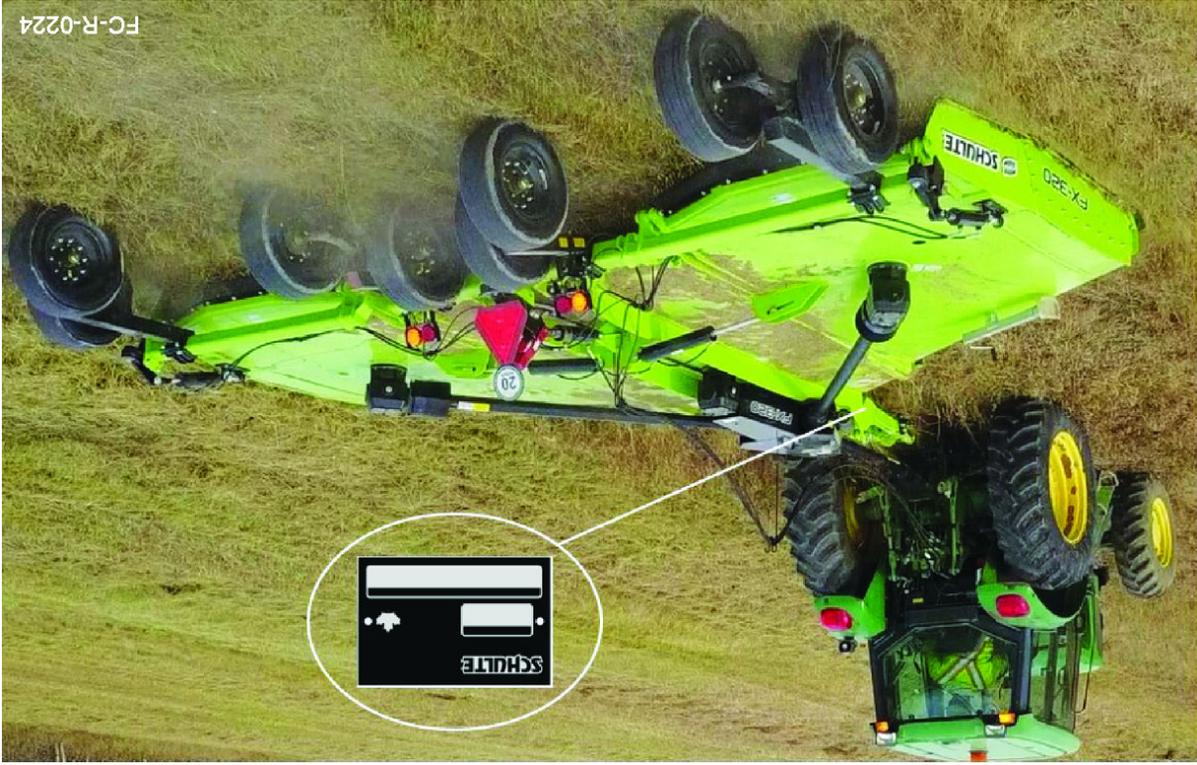
Los cuidados que brinda a su implemento *Schulte* determinarán en gran medida su satisfacción con el desempeño y la vida útil del equipo. Lea con atención y siga las instrucciones de este manual para comprender cabalmente su nuevo implemento, su uso previsto, y sus requisitos de servicio.

Todas las referencias que se hacen en este manual a derecha, izquierda, frontal, trasero, arriba y abajo corresponden a la perspectiva en el sentido del desplazamiento hacia delante con el implemento correctamente sujeto al tractor.

La información sobre repuestos se encuentra por separado en el Manual de Partes. Las cortadoras *Schulte* utilizan componentes del sistema equilibrados y coincidentes para porta cuchillas, cuchillas, ejes de corte, hojas, ganchos para hojas, rodillos, componentes de los engranajes, y cojinetes. Estas partes se fabrican y se prueban según las especificaciones de *Schulte*. Las partes compatibles no genuinas no siempre cumplen con estas especificaciones. El uso de partes no genuinas puede perjudicar el desempeño de la cortadora, anular la garantía y presentar un riesgo para la seguridad. Use partes genuinas *Schulte* para ahorrar dinero y maximizar la seguridad.

Para referencia futura, registre el número de modelo y el número de serie de *Schulte* que ha adquirido

Distribuidor	Teléfono	Fecha de compra:	Número de Serie	Dueño



SCHULTE®

FX-320/FX-214

CORTADORA/TRITURADORA GIRATORIA DE ELEVACIÓN
DEL NIVEL MECÁNICAS CON ALETA FLEXIBLE

Publicado en 10/25

S/N C3XXXXXXX - C3XXXXXXX inclusive

Part No. C321-010C

MANUAL DE OPERADOR

Este Manual del Operador es una parte esencial de la operación

segura de esta máquina y se debe mantener con la unidad siempre. **LEA, ENTIENDA, Y SIGA** las Instrucciones de Seguridad y Operación contenidas en este manual antes de operar el

equipo. *C01-Cover SP_5*

Importantes instrucciones de operación y las instrucciones de seguridad se encuentran en el video Cortacésped Sobre Seguridad que se puede acceder instantáneamente en el internet en: www.algqr.com/svs



www.algqr.com/svs



FC-R-0223

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Schulte Web Page



www.algqr.com/svs

¡ATENCIÓN!
LEA EL INSTRUCTIVO

Si No Lee Ingles, Pida Ayuda a Alguien, Que Se Lo Lea Para Que le Traduzca Las Medidas de Seguridad

Certified System

ISO 9001

MEMBER OF THE ALAMO GROUP

ALWAYS ON THE CUTTING EDGE®

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