



FX-209

Rotary Cutter

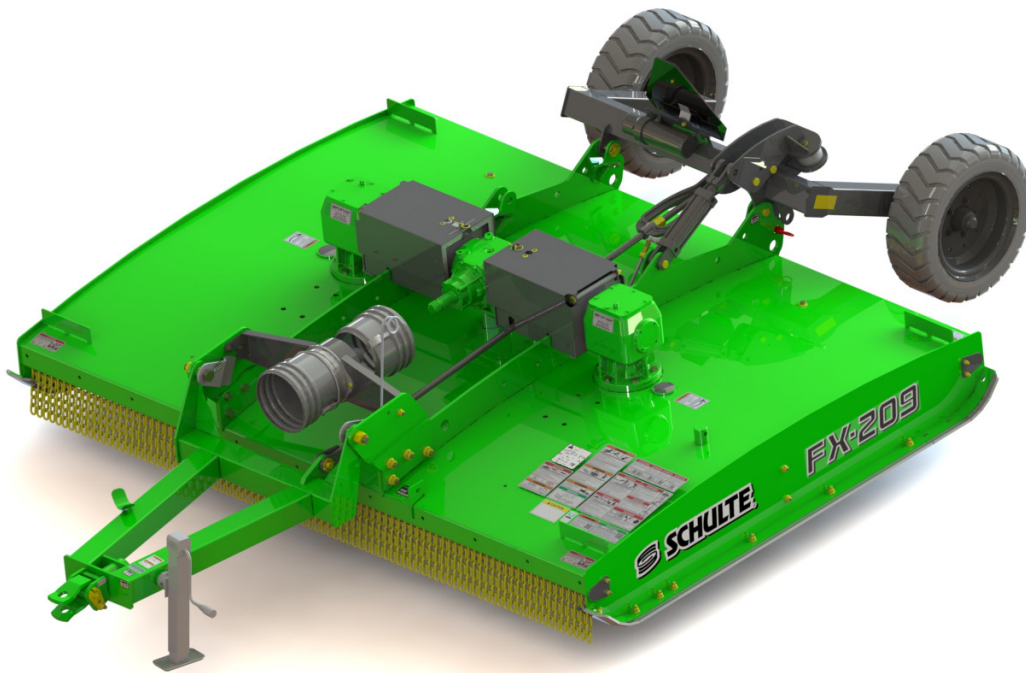
Published 07/19

Part No. C209-010C

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



FC-0093

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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.

SAFETY FIRST. Completely read and understand the safety section of this manual before operating this equipment. Do not allow anyone to operate this equipment who has not fully read and understood this manual. Contact your Dealer to explain any instructions that you do not fully understand.

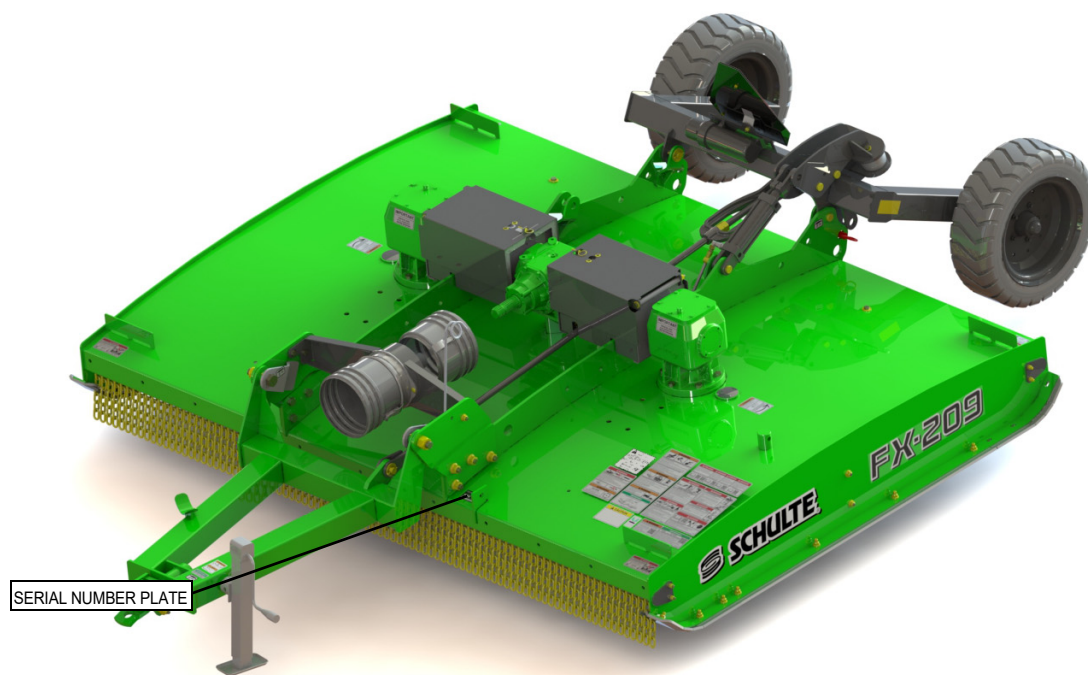
The care you give your *Schulte* Implement will greatly determine your satisfaction with its performance and its service life. Carefully read and follow the instructions in this manual to provide you with a thorough understanding of your new implement and its intended use and service requirements.

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	

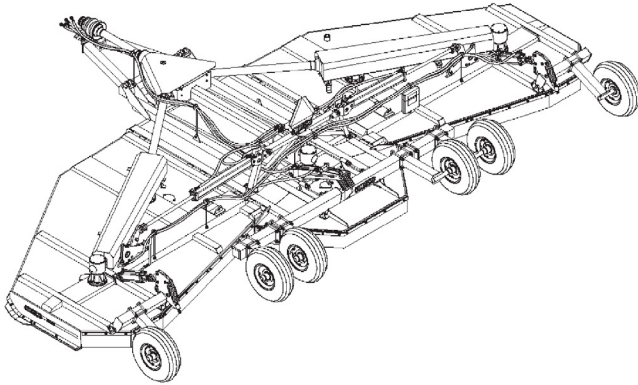


➤ **BE SAFE!**

➤ **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 piece 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. is willing to 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 E-mail to:

AEMVideo@alamo-group.com

AEM Mower Video

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 inform 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's of 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 oils 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 resulting in 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

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 serious injury or death from unsafe practices.



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



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



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



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

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

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death 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
Pictograph surrounded by a triangle indicates a Safety Hazard that must be avoided. Example:  Equipment contacting overhead electrical lines	Pictograph by itself or inside a box indicates an avoidance procedure that should be followed to prevent injuries. Example:  Always shut off engine and remove key before working on equipment.	A circle with a slash through it indicates an action that is prohibited. Example:  No Smoking

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. PN GS01*

SAFETY

OPERATOR SAFETY

				
Read and understand Operator's Manual	Always wear Safety Glasses	Wear Hard Hat Safety Shoes	Never use Drugs or Alcohol when operating equipment	Wear Safety Vest when operating on or near roads



TO AVOID SERIOUS INJURY OR DEATH DO THE FOLLOWING:

- **READ, UNDERSTAND** and **FOLLOW** Operator's Manual instructions, Warnings and Safety Messages.
- **WEAR SAFETY GLASSES**, 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 gives 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 5mph.
- **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:

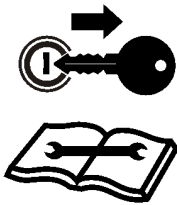
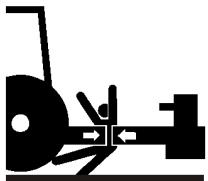
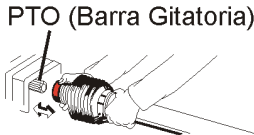
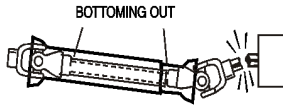
- **DO NOT EXCEED IMPLEMENT RATED PTO SPEED**
- **AVOID** exceeding rated PTO speeds that may result in broken drivelines or blade failures.

SAFETY SIGNS:

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

SAFETY

CONNECTION OR DISCONNECTING IMPLEMENT SAFETY

			
Stop Tractor Remove Key Read Manual	Crushing injury between tractor and implement	Make sure PTO shaft is securely attached to tractor	Make sure PTO shaft are proper length



TO AVOID SERIOUS INJURY OR DEATH 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.

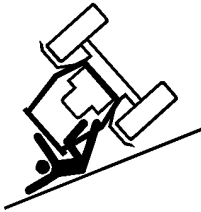
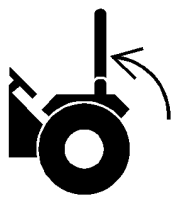
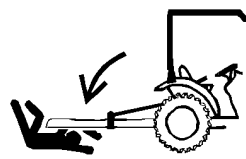
CONTACT DEALER if implement driveline does not match Tractor PTO shaft:

- **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.

DO NOT connect the Mower to a tractor with the PTO directly connected to the Tractor transmission. **PN CD02**

SAFETY

CRUSHING HAZARDS

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

⚠ DANGER

TO AVOID SERIOUS INJURY OR DEATH 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.

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.

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:

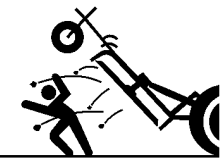
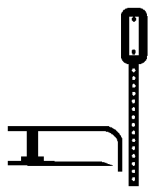
- **NEVER ALLOW** children to play on or around Tractor or Implement.

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. **PN CH02**

SAFETY

THROWN OBJECT HAZARDS

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



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:

- 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:
 1. **MARK** objects that cannot 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:

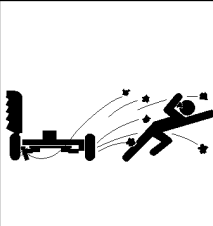
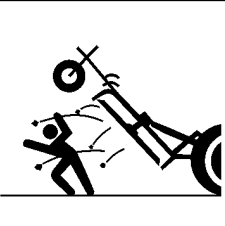
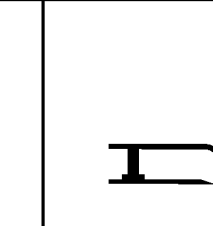
- **KEEP** all thrown object shielding including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- **DO NOT OPERATE** with any thrown object shielding missing, damaged or removed.

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 T002*

SAFETY

THROWN OBJECTS HAZARDS (CONTINUED)

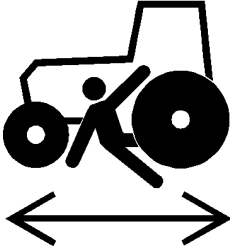
				
Mower Thrown Objects Hazard	Raised Mower Thrown Objects	Raised Mower Thrown Objects	Inspect Area remove foreign objects	Do not let blades contact solid objects

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 damage parts and bent or damaged **BLADES**. *PN T001-X*

SAFETY

RUN OVER HAZARDS

		
Operator run over hazard	Rider fall off run over hazard	Rider fall off run over hazard



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

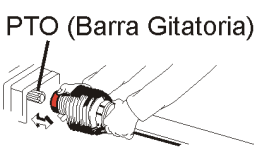
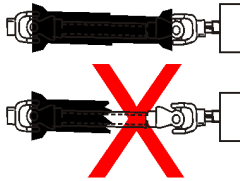
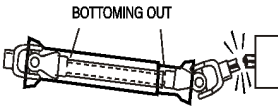
- **USE ROPS** and **SEAT BELT** equipped tractors for mowing operations.
- **KEEP ROPS** locked in **UP** position.
- **ONLY** start tractor while seated in tractor seat.
- **ALWAYS BUCKLE UP** seat belt when operating tractor and equipment.
- **ONLY OPERATE** tractor and equipment while seated in tractor 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 R001*

SAFETY

PTO ENTANGLEMENT HAZARDS

			
Entanglement hazard Do Not approach or touch a rotating PTO driveshaft	Make sure PTO shaft is securely attached Do Not Use PTO Adapter	DO NOT Operate if PTO shields are damaged or missing	Make sure PTO shafts are proper length



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

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.

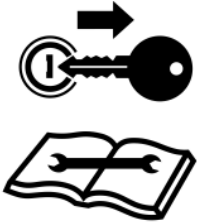
CONTACT DEALER if implement driveline does not match Tractor PTO shaft:

- **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 PE01**

SAFETY

MOWER BLADE CONTACT HAZARDS

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



KEEP AWAY FROM ROTATING BLADES TO AVOID SERIOUS INJURY OR DEATH 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 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 beneath the mower. **PN MB01**

SAFETY

HIGH PRESSURE OIL LEAK HAZARDS

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



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

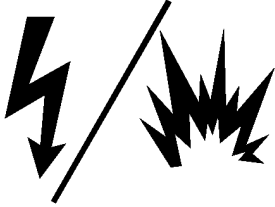
- **ALWAYS WEAR** safety glasses and impenetrable gloves.
- **USE** paper or cardboard to search for leaks.
- **DO NOT USE** hands or body parts to search for leak.
- **KEEP** hands and body **AWAY** from pin holes and nozzles ejecting hydraulic fluid.
- Injected Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury. **PN HP01**

SAFETY

SAFETY

SAFETY

ELECTRICAL & FIRE HAZARDS

	
Strike and explosion Hazard Blades Contacting Utility or Gas Lines	Do not operate near fires. Keep mower deck clear of debris



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

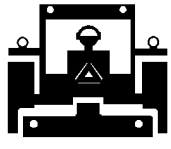
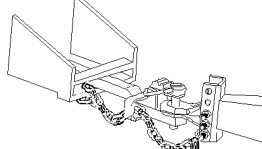
- **INSPECT** mowing area for overhead or underground electrical power lines, obstructions, gas lines, cables and Utility, Municipal, or other type structure.
- **DO NOT** allow mower to contact with any Utility, Municipal, or type of structures and obstructions.
- **CALL 811** and 1-800-258-0808 for 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 EF02*

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

WARNING

TO AVOID SERIOUS INJURY AND DEATH 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
- **USE** only properly sized and equipped tractor for towing equipment.
- **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** your operating position, mirrors, and implement transport for clear vision for traveling and traffic conditions.

PREPARE IMPLEMENT FOR TRANSPORTING OR TOWING:

- **DISENGAGE PTO**
- **RAISE MOWER**
- **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

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

BRAKING TESTS:

- **APPLY** brakes at increasing speeds
- 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.

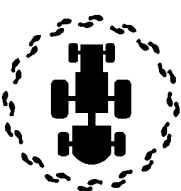
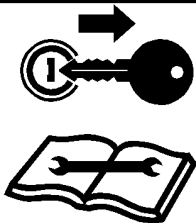
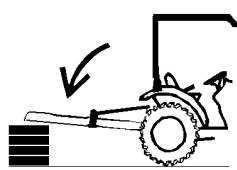
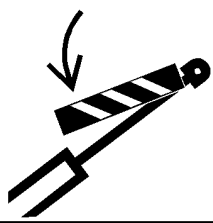
WHEN TOWING OR TRANSPORTING EQUIPMENT:

- 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. *PN TH02*

SAFETY

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 SERIOUS INJURY OR DEATH 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**, 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.
- **PUSH** and **PULL** Remote Hydraulic Cylinder lever to relieve hydraulic pressure.
- **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.

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

Operating, servicing and maintaining this equipment can expose you to chemicals including gasoline, diesel fuel, lubricants, petroleum products, engine exhaust, carbon monoxide, and phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. This website, operated by California's Office of Environmental Health Hazard Assessment, provides information about these chemicals and how individuals may be exposed to them.

PN HM01

SAFETY

PARTS INFORMATION

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)

SEE YOUR SCHULTE DEALER

Operator's & Parts Manuals



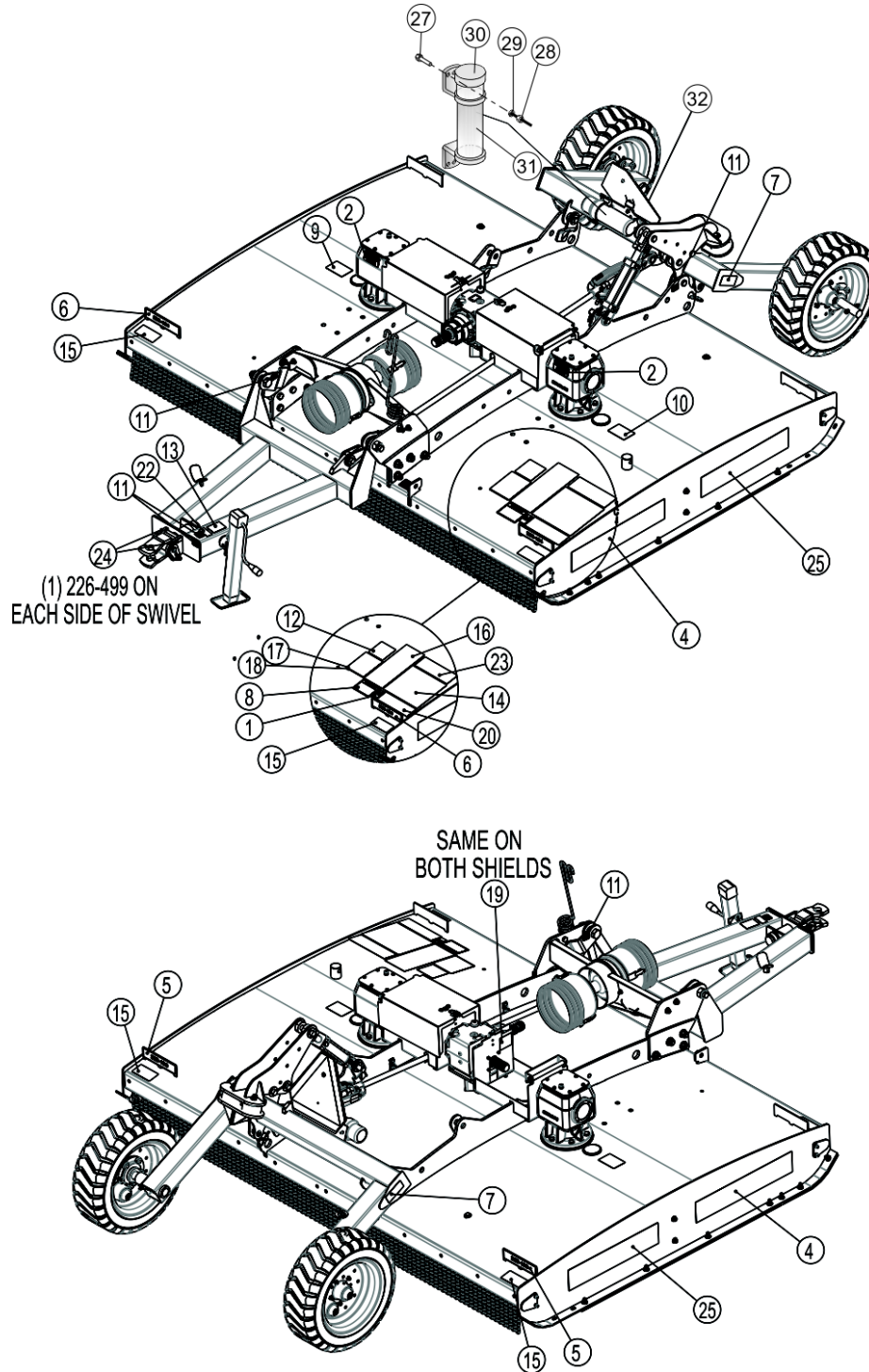
www.algqr.com/spm

SAFETY

SAFETY

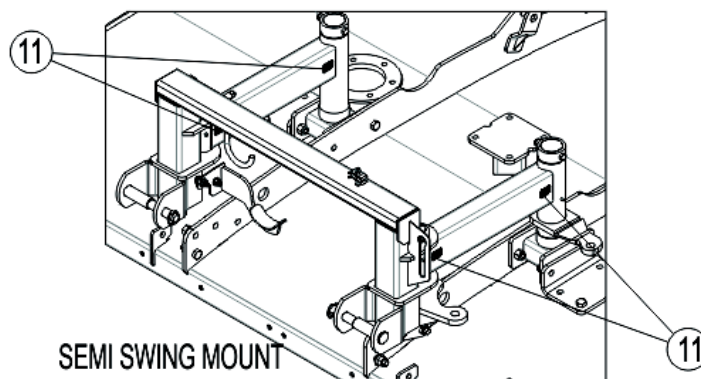
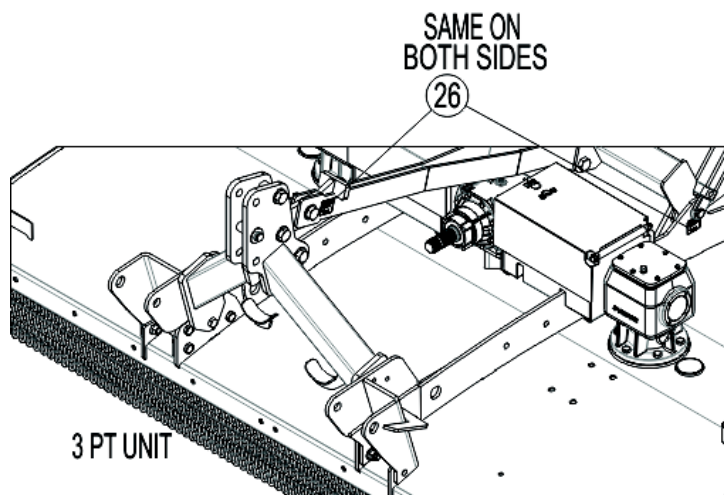
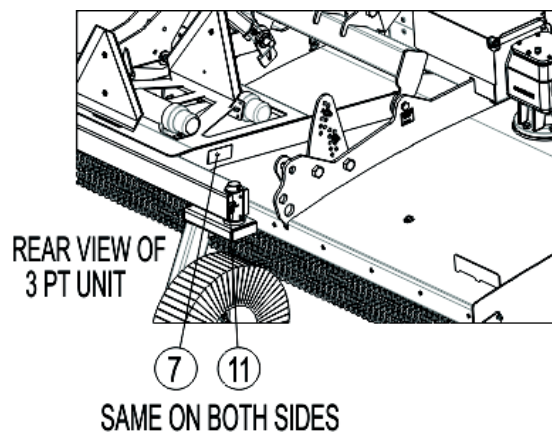
Decal Location - Lift Type

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 (Some shipping and handling charges may apply). Contact your Schulte dealer to order replacement decals.



SAFETY

SAFETY



SAFETY

SAFETY

ITEM	PART NO.	TRAIL QTY.	3PT QTY.	SEMI QTY.	SEMI SWING QTY	TYPE	DESCRIPTION
1.	226-004	1	1	1	1	LOGO	FEMA Member
2.	226-081	2	2	2	2	IMPORTANT	Check Oil Level
3.	NFS	1	1	1	1	SER PLT	Serial Plate
4.	226-118	2	2	2	2	LOGO	Large Schulte Profile
5.	226-153	2	2	2	2	REFLECT	Red Reflector
6.	226-154	2	2	2	2	REFLECT	Amber Reflector
7.	226-1541	2	2	2	2	REFLECT	Amber Reflector 2"X4-1/2"
8.	226-160	1	1	1	1	WARNING	Blade Timing
9.	226-164	1	1	1	1	WARNING	Blade Rotation, CW
10.	226-165	1	1	1	1	WARNING	Blade Rotation, CCW
11.	226-181	6	2	2	10	INSTRUCT	8 HR Greasing
12.	226-363	1	1	1	1	INSTRUCT	Bondoli Driveline Greasing
13.	226-431	1				WARNING	Jack Decal, 2500 lbs, 700lbs
14.	226-436	1	1	1	1	DANGER	Multi-Hazard
15.	226-437	4	4	4	4	DANGER	Guard Missing
16.	226-438	1	1	1	1	WARNING	Multi-Hazard
17.	226-440	1	1	1	1	DANGER	Multi-Hazard - 540 RPM
18.	226-441	1	1	1	1	DANGER	Multi-Hazard - 1000 RPM
19.	226-442	2	2	2	2	DANGER	Guard Missing-Do Not Operate
20.	226-444	1	1	1	1	WARNING	Use Genuine Schulte Parts
21.	226-446	1	1	1	1	WARNING	Guard Missing
22.	226-459	1				INSTRUCT	Grease Fitting
23.	226-491	1	1	1	1	DANGER	Multi-Language
24.	226-499	2				INSTURCT	This Side Up
25.	226-532	2	2	2	2	LOGO	FX-209 Logo
26.	226-335		4			WARNING	Pinch Points
27.	250-002	2	2	2		_____	1/4" Bolt
28.	270-025	2	2	2		_____	1/4" Locknut
29.	256-018	4	4	4		_____	1/4" Washer
30.	280-201	1	1	1		_____	Manual Canister
31.	C209-010C	1	1	1		_____	FX-209 Operators Manual
32.	226-013*	1	1	1	1	REFLECT	SMV Emblem

SAFETY

Decal Description

**WARNING**

**Non-genuine parts can fail catastrophically.
TO AVOID SERIOUS INJURY OR DEATH:**

- ONLY use genuine SCHULTE replacement parts.
- Non-genuine parts can fail creating hazardous conditions for operator and bystanders.

Contact local dealer or SCHULTE about repair parts at:
PO BOX 70, Englefeld,
Saskatchewan Canada S0K 1N0
Customer Service: 306-287-3715. www.algqr.com/spm
Email: info@schulte.ca



**WARNING**

Cancer and Reproductive Harm
www.P65Warnings.ca.gov

IMPORTANT

**BE AWARE
BE ALERT
BE ALIVE**

**BE TRAINED
Before Operating this Mower**



To prevent serious injury to yourself and/or bystanders, be trained in Safe Mowing Practices. Alamo Group Companies 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.FarmEquip.org), or Alamo Group (www.Alamo-Group.com) for information on training material or courses that provide training in Safer Operating Practices for Mowers.

www.algqr.com/sve

226-444

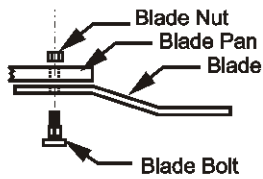
SAFETY

SAFETY

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH 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

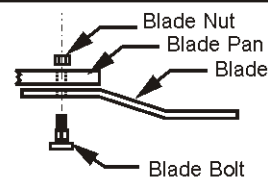
BLADE ROTATION



⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH 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

Rated Vertical: 2500 lbs
Loads Side: 700 lbs

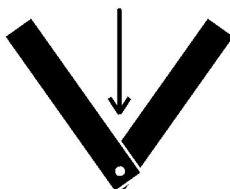
TO AVOID SERIOUS INJURY:

- Fully engage jack retaining pin.
- DO NOT exceed rated loads.

226-431

⚠ WARNING

PINCH POINTS



226-335

⚠ DANGER

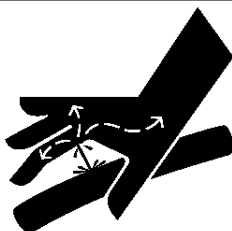
226-442



**GUARD MISSING
DO NOT OPERATE**

SAFETY

! WARNING



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

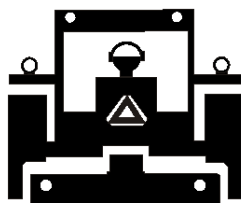
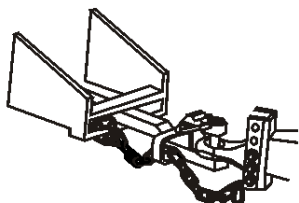
- DO NOT OPERATE equipment with oil or fuel leaks.
- KEEP all hydraulic hoses, lines and connections in good condition and tight before applying system pressure.
- Relieve hydraulic pressure before disconnecting lines or working on the system.
- REMOVE and replace hose if you suspect it leaks. Have dealer 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 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_1B

! WARNING



TO AVOID SERIOUS INJURY AND DEATH 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, 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.

226-438_2B

SAFETY

SAFETY

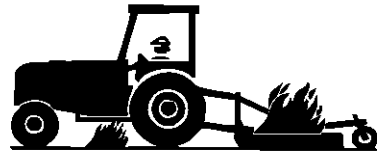
WARNING

TO AVOID EQUIPMENT AND GRASS FIRES:

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

TO AVOID FIRE IGNITION:

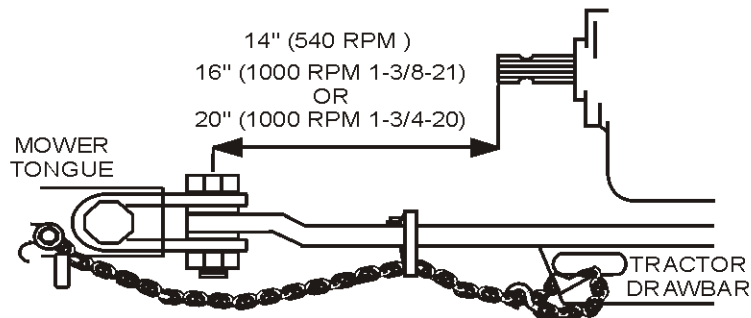
- DO NOT ALLOW BLADES TO CONTACT rocks, metal or solid objects.



226-438_3B

IMPORTANT

Required for Standard Pull Type Units.



Attach Safety Chain securely.

226-438_4B

WARNING

THROWN OBJECT HAZARD

Blades striking each other can result in broken parts and thrown objects.

To avoid injury and broken parts:

- Time blades perpendicular to each other.

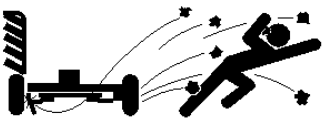
226-160



SAFETY

SAFETY

⚠ DANGER





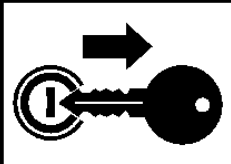
THROWN OBJECTS HAZARD 226-436_1

Mower can throw objects up to 300 feet. TO AVOID SERIOUS INJURY OR DEATH 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 - Injury or Death

TO AVOID SERIOUS INJURY OR DEATH:

- 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_1B

SAFETY

SAFETY

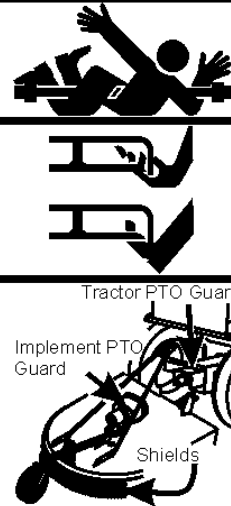
⚠ DANGER

ENTANGLEMENT HAZARD

TO AVOID SERIOUS INJURY OR DEATH:

- 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



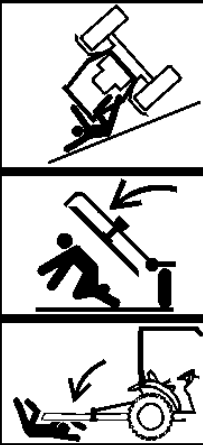
⚠ DANGER

Crushing Hazard - Injury or Death

TO AVOID SERIOUS INJURY OR DEATH:

226-436_3

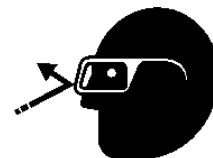
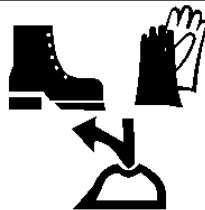
- USE tractor equipped with **R**ollover **P**rotective **S**tructure ("ROPS") including roll bar and seat belt. Keep roll bar in raised position.
- STAND CLEAR when removing transport latch, lowering or raising wings.
- IMPLEMENT CAN FALL from hydraulic failure or accidental operation of controls.
- BLOCK UP and securely support equipment before putting hands, feet or body under raised equipment or lifted components.



⚠ DANGER



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TO AVOID SERIOUS INJURY OR DEATH:

226-436_5

- 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.
- WEAR hard hat, safety shoes and gloves for protection when operating equipment.

226-436

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SAFETY

SAFETY

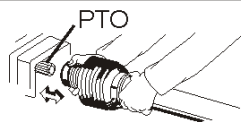
DANGER



TO AVOID SERIOUS INJURY OR DEATH FROM DRIVELINE CONTACT, DRIVELINE SEPARATION OR PTO STUB SHAFT FAILURE:

- 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.
- 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

226-440_1



WARNING

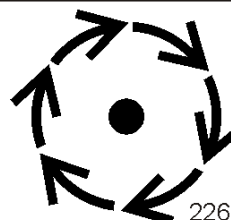
OPERATE THIS MACHINE AT

540 RPM

TRACTOR PTO SPEED ONLY.

Overspeeding PTO may cause component failure resulting in bodily injury.

TRACTOR PTO ROTATION: CLOCKWISE



226-440

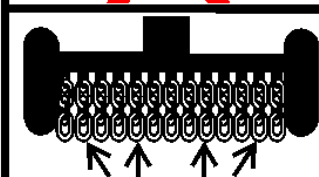
DANGER

THROWN OBJECT HAZARD

TO AVOID SERIOUS INJURY OR DEATH:

DO NOT OPERATE if Thrown Object Shielding is damaged or missing.

MAINTAIN Thrown Object Shielding

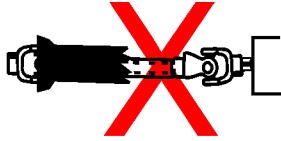


226-437 B

SAFETY

SAFETY

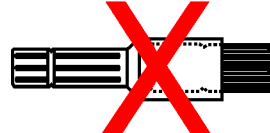
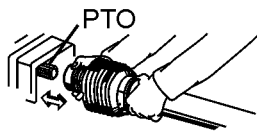
DANGER



TO AVOID SERIOUS INJURY OR DEATH FROM DRIVELINE CONTACT, DRIVELINE SEPARATION OR PTO STUB SHAFT FAILURE:

- 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.
- 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

226-441_1



WARNING

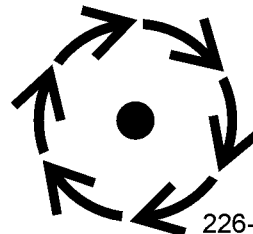
OPERATE THIS MACHINE AT

1000 RPM

TRACTOR PTO SPEED ONLY.

Overspeeding PTO may cause component failure resulting in bodily injury.

TRACTOR PTO ROTATION: CLOCKWISE



226-441

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 français: 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 vídeo www.algqr.com/sms www.algqr.com/svs	Manuel de l'Opérateur www.algqr.com/smf

226-491_1

! 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 Deutsch 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

226-491_2

SAFETY

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 decaled 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 an imminently 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.



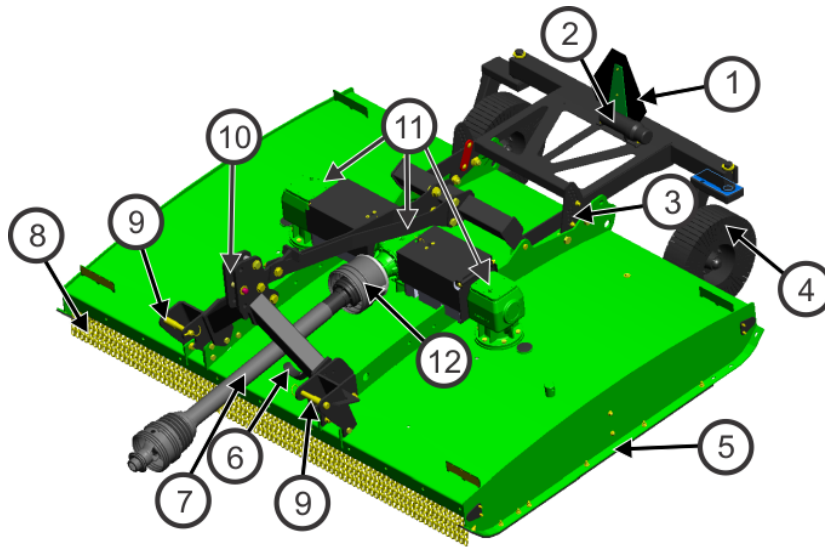
CAUTION

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 SMV
- 2 Operator' Manual Canister
- 3 Height Adjustment
- 4 Tailwheel
- 5 Skid Shoe
- 6 Driveline Storage Support
- 7 Input Driveline
- 8 Thrown Object Guard
- 9 Lower 3PT Hitch Pins
- 10 Top 3PT Hitch Pins
- 11 Gearboxes
- 12 Driveline Clutch

INTRODUCTION

The FX-209 rotary mower is designed for cutting right of way, pasture maintenance and shredding crop residue. This mower is designed for medium to heavy duty applications. Such as weeds, grass, corn stalks and light brush up to 2" (51mm) diameter.

These mowers are multi-spindle with free swinging blades. Free swinging blades reduce the shock impact when a stationary object is hit. Additional protection is provided by a slip clutch on the gearbox input shaft.

The FX-209 is a versatile and unique design. The machine can be pulled on four different configurations: Trailing Hitch, 3 Point Hitch, Semi Mount Hitch and Semi Mount Swing Hitch. The non-trailing configurations can be either pushed or pulled. The non-trailing configurations are also available with either hydraulic or manual rear wheel beam height adjustment. The FX-209 can also be used in a pushing configuration mounted to either a Schulte FM-350 or FM-115 front mount frame.

Standard equipment includes driveline shields, clutch shields and front and rear discharge shields.

With proper maintenance as described in the manual, your cutter will provide you with years of dependable service with minimum repairs.

It is recommended that all operators of this implement read this manual or be instructed of its contents as to safety, proper operation, and maintenance before beginning operation.

When ordering replacement parts for this cutter, gearboxes, or drivelines, be sure to specify the serial number. The serial number is located on the front, left tube of the center frame.

The place warranty into effect, fill out the warranty validation form in full and return it within thirty (30) days of the date of purchase.

For the purpose of this Schulte equipment, the following definitions apply.

Literature Page



www.algqr.com/sle



INTRODUCTION

Left-hand side: Side which is to the left when the operator is facing in the normal forward direction of the tractor.

Right-hand side: Side which is to the right when the operator is facing in the normal forward direction of the tractor.

Attention Owner/Operator

BEFORE OPERATING THIS MACHINE:

1. Carefully read the Operator's Manual, completely understand the Safety Messages and instructions, and know how to operate correctly both the tractor and Mower.
2. Fill out the Warranty Card in full. Be sure to answer all questions, including the Serial Number of the Mower. Mail within 30 days of delivery date of this implement.

NOTE: *Warranties are honored only if completed "Owner Registration and Warranty" forms are received by Schulte within thirty days of delivery of the implement.*

3. Record the Blade Model and Serial Numbers on the Warranty page at the front of the Operator's Manual. Keep this as part of the permanent maintenance file for the mower.
4. For further assistance please contact customer support at (306) 287-3715.

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 Warranty FX 209

General Statement affecting Schulte Warranty

Schulte Industries Ltd warrants to the original purchaser only, that in the event of any defect in material or workmanship in product sold by Schulte Industries, the subject of this warranty ("the goods") during the warranty period mentioned below, Schulte 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 year from the date of purchase.
- Component Warranty is 1 year from the date of purchase. Coverage includes hydraulics, hubs, spindles, blade carriers, and light kits.
- Driveline warranty is 1 year from the date of purchase. Warranty covers cross kits, tubes, 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.

3 Year Gearbox Warranty (Coverage applies to manufacturer's defects only)

- 100% parts, labor, and freight cost for year 1
- 75 % warranty replacement gearbox parts only for year 2
- 50 % warranty on replacement gearbox parts only for year 3

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.
- Tires and Rims are covered for 1 year against manufacturer's defects only.
- Structural warranty is 30 days from the first in-service date.

Only Schulte replacement parts qualify under this coverage.

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

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 referred to in the "Operators 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.

INTRODUCTION

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 original owner must go through the dealership that the unit was purchased from.

Warranty Committee Contacts:

Glen ven der Buhs (Service Manager)

Ph (306)287-4453 **Email** gvenderbuhs@schulte.ca

Tracy Zentner (Warranty Administration)

Ph (306)287-4492 **Email** tzentner@schulte.ca

Don Willenborg (Quality Assurance Manager)

Ph (306)287-4479 **Email** dwillenborg@schulte.ca

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.

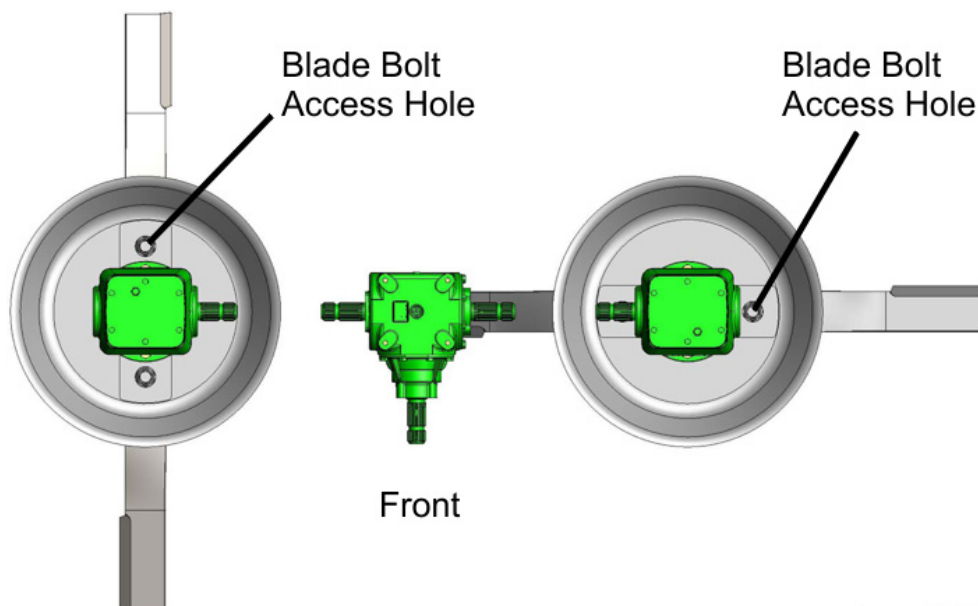
Check that all tires are inflated to proper specifications. Refer to the 'Maintenance' section of this manual for required tire pressures.

Chain Guards

If chain guards are not already assembled to the machine, refer to the Parts Manual section of this manual for details of their general arrangement and the fasteners to install them.

Blade Timing

To check the blade timing, disconnect the driveline at the tractor PTO. Open blade access covers and rotate driveline until one blade bolt is visible. Check underside of the deck for the blade position of the rotor not visible through the top access hole. The blade should be at 90° to the set with the blade bolt visible from the top. If machine is correctly timed, blade sets will be at 90° to each other.



Asm-R-0681

To change timing disconnect one shock coupler drive and rotate pan to proper location and reconnect shock coupler drive.

ASSEMBLY

Connection to Tractor, 3-Point Unit

The FX-209 is equipped with a Category 2, and Category 3 3-Point Hitch. A Category 2 quick hitch can also be used.

When first connecting the universal joint shaft to the tractor slowly raise and lower the unit to ensure that there is adequate slip range for the power shaft. If there is a problem please contact your dealer for advice.



WARNING

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

Connect the universal joint assembly to the tractor PTO. Align the quick disconnect yoke splines with the tractor PTO splines. Twist the lock collar and slide the yoke into place. Twist the collar back to lock on the PTO shaft.

Important

Pull and push on the quick disconnect yoke several times to ensure that the yoke is connected to the PTO shaft.



WARNING

BE SURE THAT THE TRACTOR PTO SPEED (540 RPM) MATCHES THE ROTARY CUTTER GEARBOX SPEED.

ASSEMBLY

Connection to Tractor, Trailing Unit

Pin the hitch jack to the stub on the cutter hitch frame and raise the hitch clevis to line up with 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.



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

Connect the universal joint assembly to the tractor PTO. Align the quick disconnect yoke splines with the tractor PTO splines. Twist the lock collar and slide the yoke into place. Twist the collar back to lock on the PTO shaft.

IMPORTANT: Pull and push on the quick disconnect yoke several times to ensure that the yoke is connected to the PTO shaft.

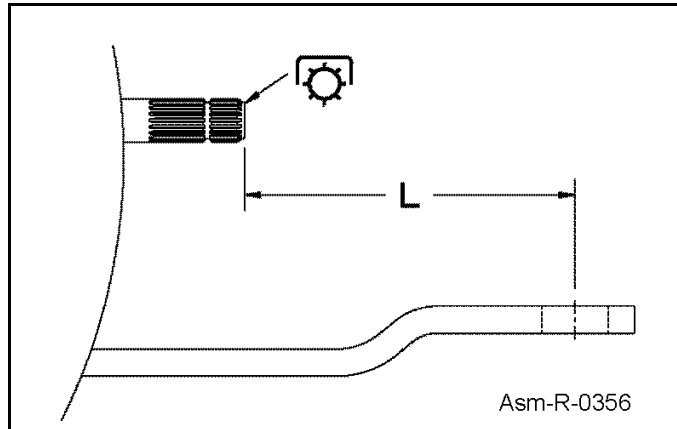


IMPORTANT: Adjust tractor drawbar length so distance from end of PTO shaft to pin hole on drawbar is as follows:

540 RPM PTO - 1-3/8" 6 Spline: L= 14"

1000 RPM PTO - 1-3/8" 21 Spline: L=16"

1000 RPM PTO - 1-3/4" 20 Spline: L=20"



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



BE SURE THAT THE TRACTOR PTO SPEED (540 or 1000 RPM) MATCHES THE ROTARY CUTTER GEARBOX SPEED.

ASSEMBLY

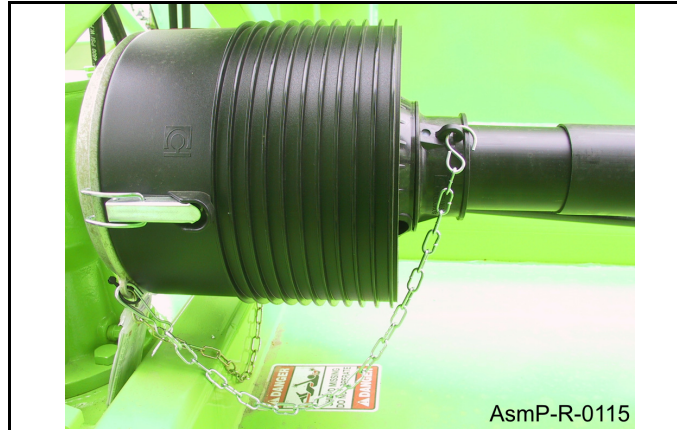
Driveline Shield Chains

Attach CV shield chain to tractor or cutter hitch allowing sufficient slack for turning.

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.

NOTE: Driveline shields may also be chained to the gearbox cone using the supplied chains.

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



Gearbox Couplers

Flexible couplers are to be installed with the rubber disks closest to the outside gearboxes. The flexible disks fit inside the notches of the deck ribs.

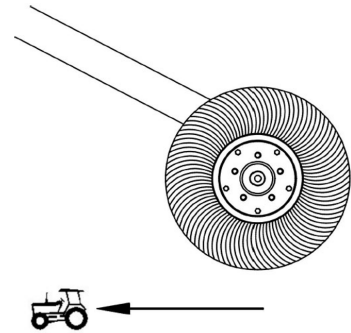
NOTE: Do Not operate without the coupler shields secured in place.



ASSEMBLY

Laminated Tires

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



Blade Rotation

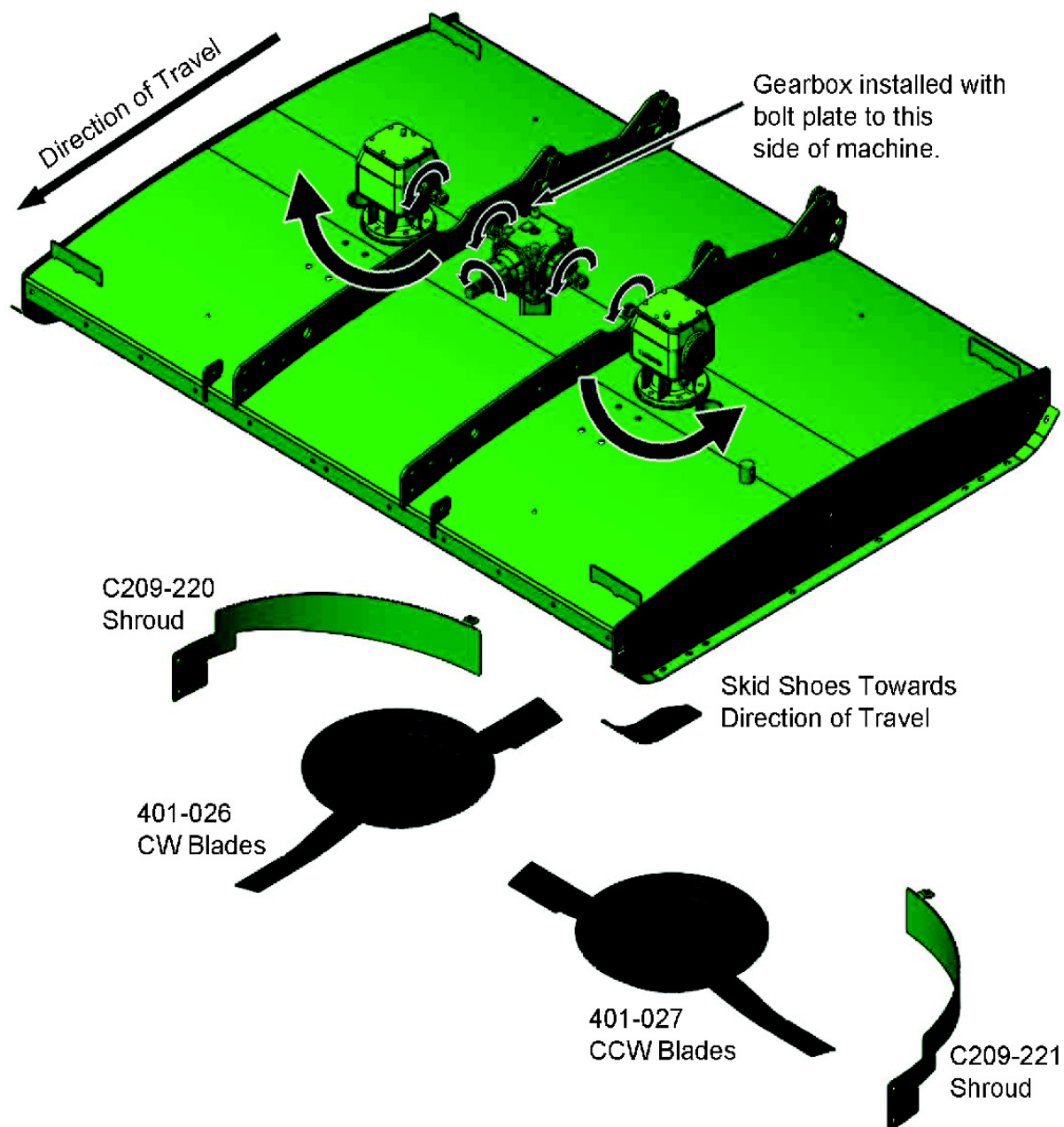
FX-209, Blade Rotation Configurations

FX-209 BLADE ROTATION AND TEE BOX SET UP CONFIGURATION MATRIX

	Pulling	Pushing CW Tractor PTO	Pushing CCW Tractor PTO
Outboard Blade Rotation	A-Configuration	C-Configuration	E-Configuration
Inboard Blade Rotation	B-Configuration	D-Configuration	F-Configuration

ASSEMBLY

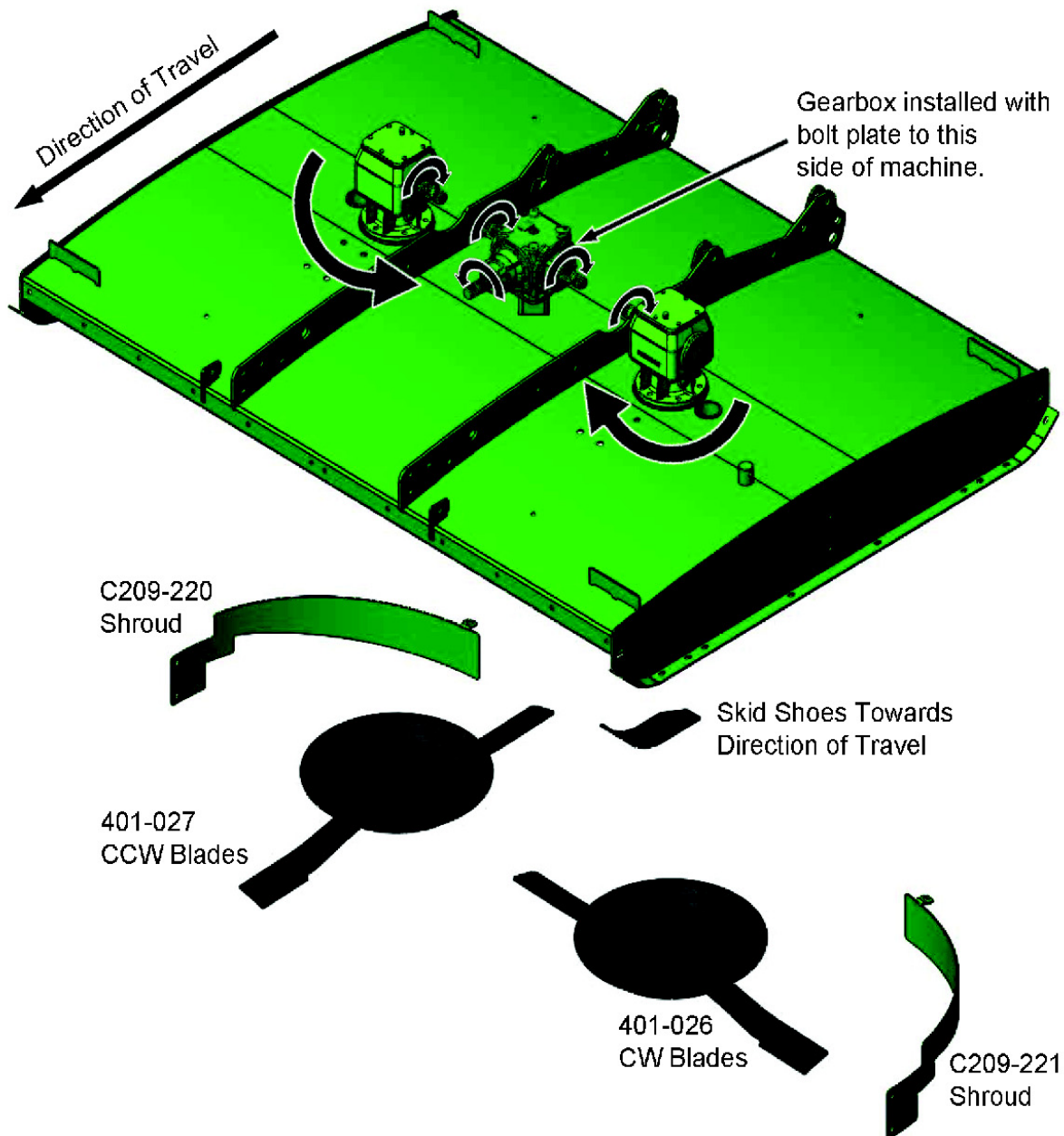
Configuration 'A'
Pulling, Outboard Blade Rotation



Asm-R-0675

ASSEMBLY

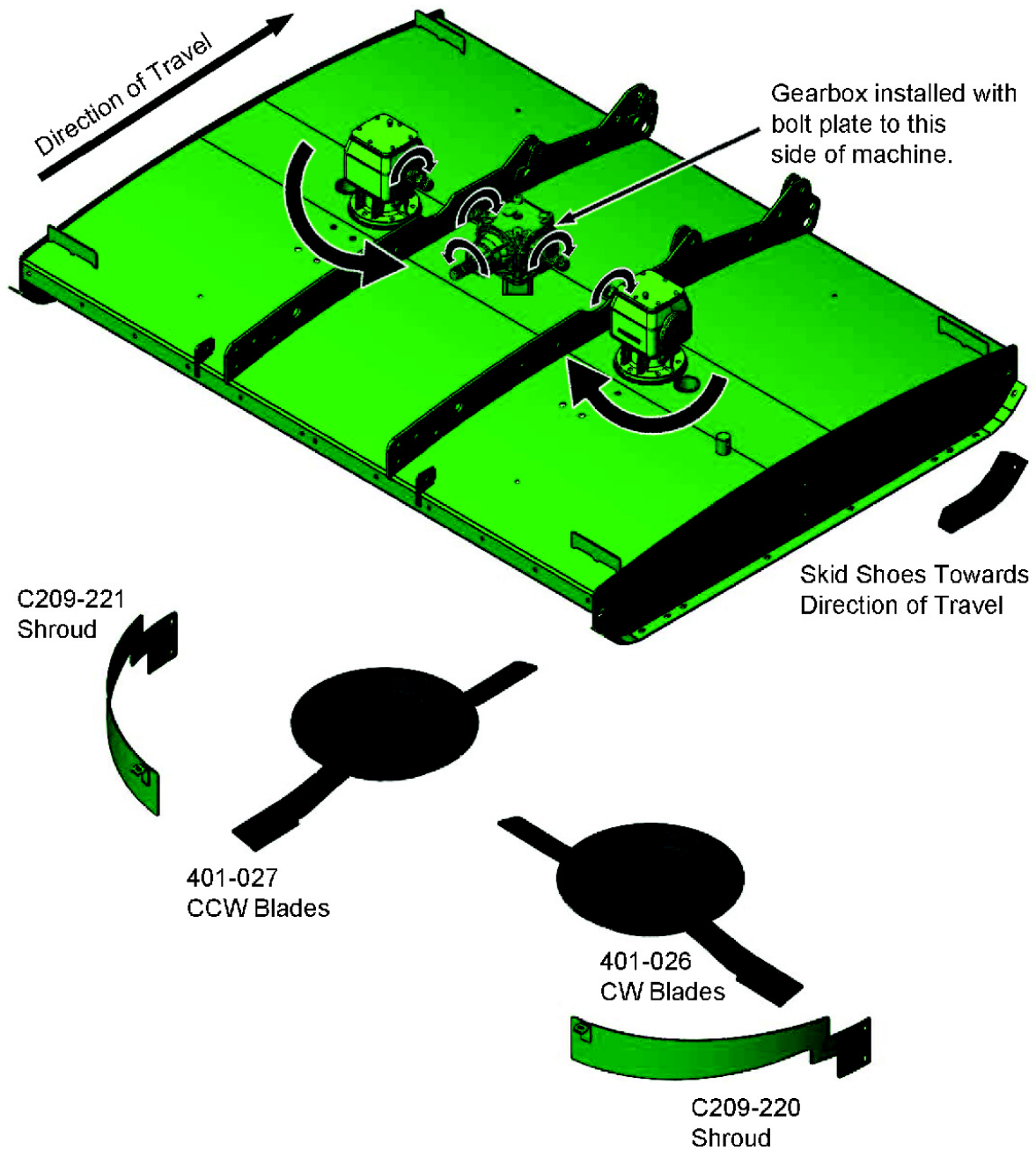
Configuration 'B'
Pulling, Inboard Blade Rotation



Asm-R-0676

ASSEMBLY

Configuration 'C'
Pushing, Outboard Blade Rotation



ASSEMBLY

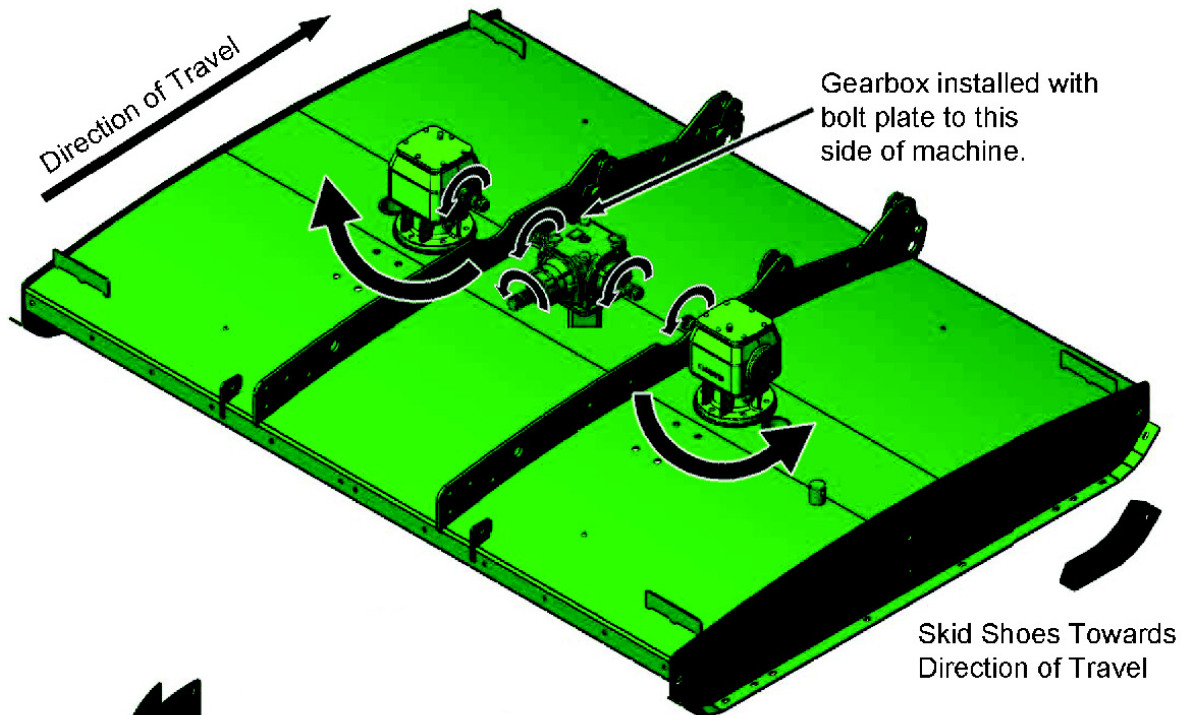
Asm-R-0677

FX-209 07/19

Assembly Section 3-9

ASSEMBLY

Configuration 'D'
Pushing, Inboard Blade Rotation



C209-221
Shroud

401-026
CW Blades

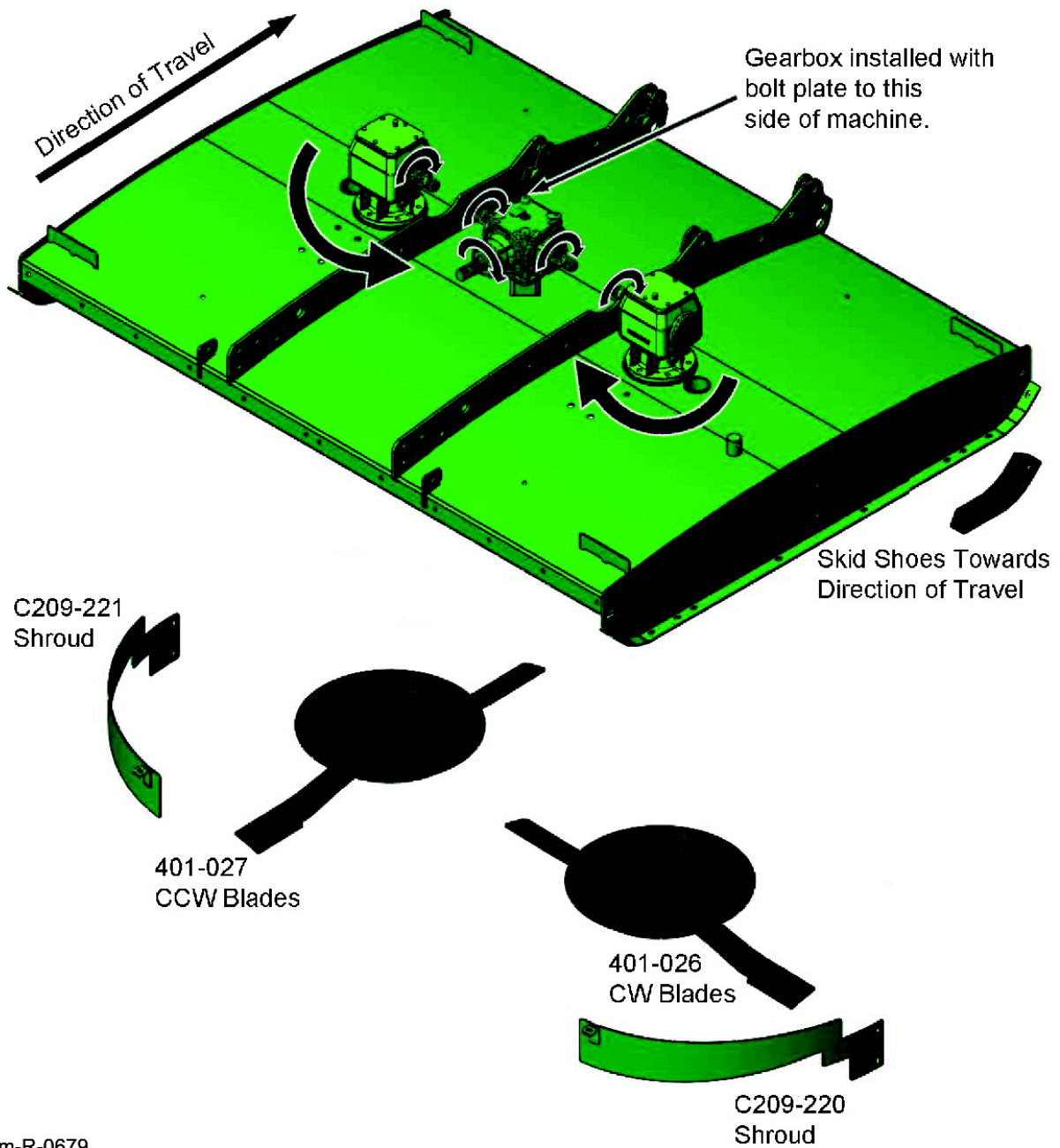
401-027
CCW Blades

C209-220
Shroud

Asm-R-0678

ASSEMBLY

Configuration 'E'
Pushing, CCW PTO, Outboard Blade Rotation



ASSEMBLY

Asm-R-0679

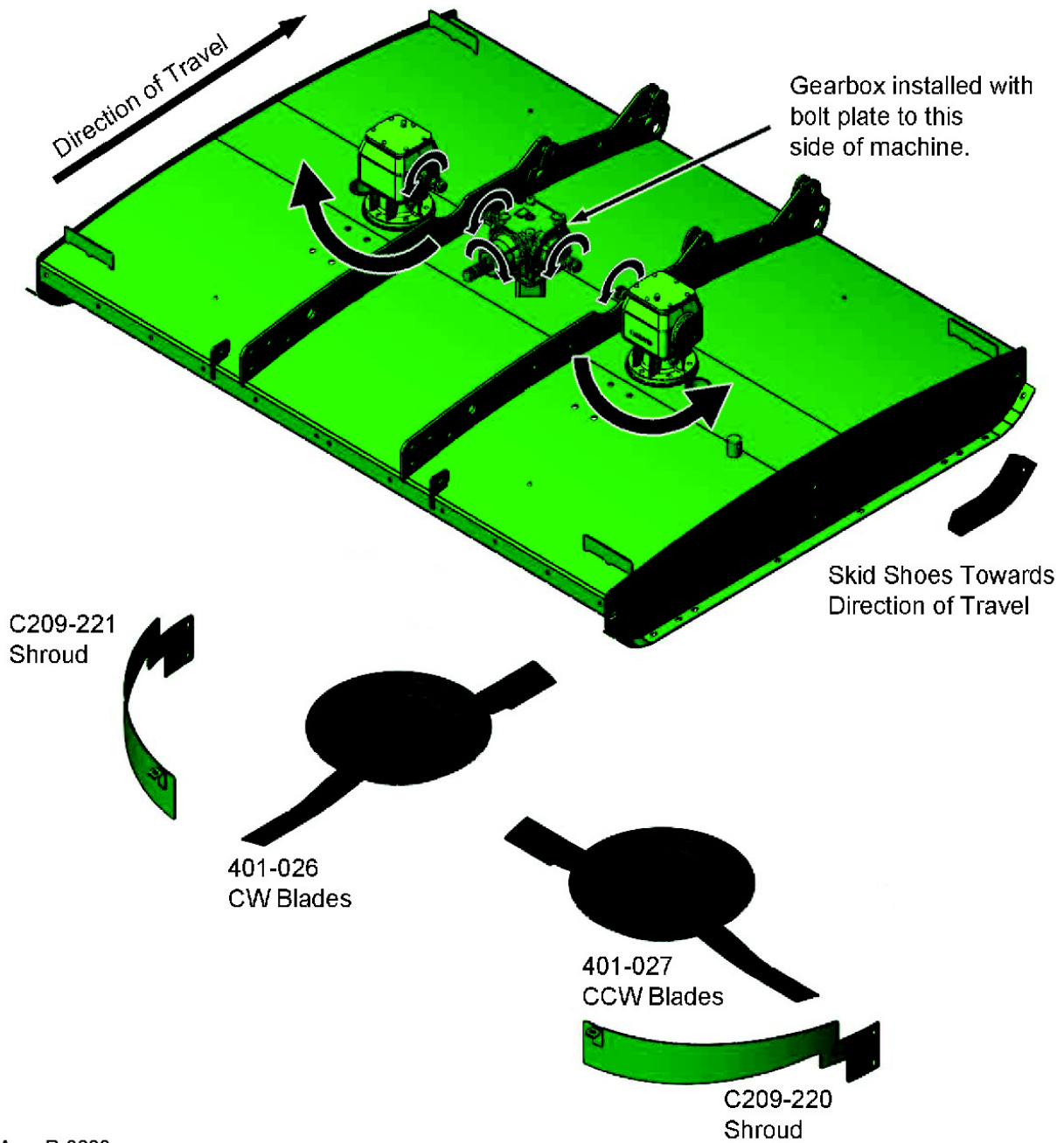
FX-209 07/19

Assembly Section 3-11

ASSEMBLY

ASSEMBLY

Configuration 'F'
Pushing, CCW PTO, Inboard Blade Rotation



Asm-R-0680

OPERATION SECTION

Operation Section 4-1

OPERATION

OPERATION

SCHULTE FX-209 ROTARY CUTTER OPERATION INSTRUCTIONS

Schulte FX-209 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 2" diameter. The cutter is equipped with protective deflectors and 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.

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 rotary cutter and are not necessarily of a FX-209 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, retorque all bolts after the first 10 hours of operation.

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- 0001*

READ, UNDERSTAND, and FOLLOW the following Safety Messages. Serious injury or death 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-2)



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



¡ LEA EL INSTRUCTIVO!



OPERATION

1. Standard Equipment and Specifications

FX-209 Specifications

Cutting Width	109.25" (2.78 m)
Overall Width	116.5" (2.96 m) Skids Inboard 120.5" (3.06 m) Skids Outboard
Overall Length	162.5" (4.1 m) Trailing Unit 127" (3.3 m), 3 Point / Semi Mount Swing / Semi Mount
Transport Clearance	11.5" (28.8 cm)
Cutting Height	2" - 13" (5.1 cm - 33 cm)
Cutting Capacity	2" (5.1 cm)
Approximate Weight	2400 lbs (1088 kg) Trailing 2300 lbs (1043 kg) 3 Point 2100 lbs (952 kg) Semi Mount 2860 lbs (1297 kg) Semi Mount Swing
Hitch Type	Cat. II & III 3 Point / Semi Mount Swing, Trailing Pull
Deck Thickness	7 GA (3/16", 4.6 mm)
Side Skirt	1/4" x 13.75" (6.35 mm x 337 mm)
Gear Box Rating	Center 170 HP (127 kW) Outboard 210 HP (157 kW)
Blade Tip Speed	540 RPM - 17086 FPM 1000 RPM - 17355 FPM
Blade Overlap	4.75" (121 mm)
Tractor PTO Speed	540 or 1000 RPM
Minimum Tractor HP	60 HP (45 kW)
Deflectors	Double Chain Front and Rear

FX-209 Options

Hitch	Trailing / 3 Point / Semi Swing Mount / Semi Mount
Trailing Attachment	Standard Clevis / Adjustable Clevis / Solid Tongue /
Precision Hitch	
Tires	Laminate / Severe Duty / Severe Duty Foam Filled /
Forklift	
Cutting Elements	Pans or Blade Bars
Safety Belting	1/2 Length Front and Rear

OPERATION

OPERATION

2. OPERATOR REQUIREMENTS

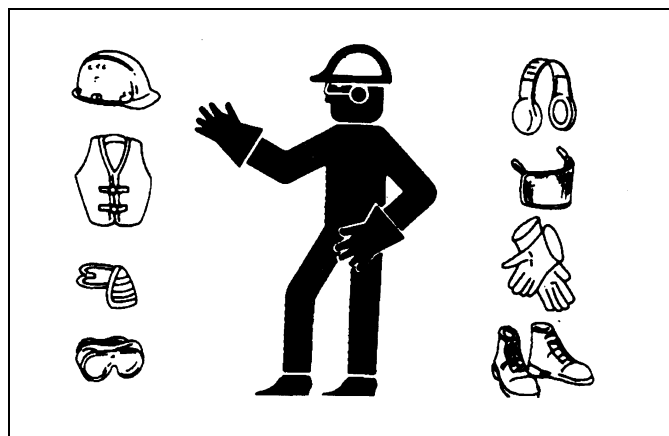
Safe operation of the unit is the responsibility of a qualified operator. A qualified operator has read and understands the implement and tractor Operator's Manuals and is experienced in implement and tractor operation and all associated safety practices. In addition to the safety messages contained 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:

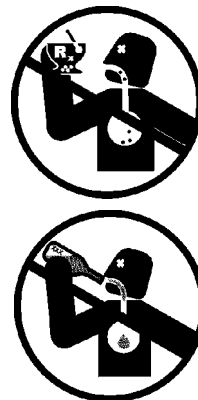
PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Always Wear Safety Glasses
- Hard Hat
- Steel Toe Safety Footwear
- Gloves
- Hearing Protection
- Close Fitting Clothing
- Respirator or Filter Mask (depends on operating conditions) OPS-U- 0002



⚠ 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)



OPERATION

3. TRACTOR REQUIREMENTS

The tractor used to operate the cutter must have the power capacity to lift, pull, and operate the Power Take Off (PTO) at the cutter's rated speed while traveling at a ground speed between 2 and 5 MPH. Operating the cutter with a tractor that does not meet the following requirements may cause tractor or cutter 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 60 HP
- Hitch:
 - Lift Type Mower:
 - 3 Point Hitch.....CAT II CAT III
 - Lifting Capacity.....2300 lbs. (1043 kg)
 - Pull Type Mower:
 - DrawbarExtended 14"from PTO shaft end with safety chain attachment point
- Front End Weights..... As needed to maintain 20% weight on front axle
- Power Take Off 540 RPM-6-spline, 1-3/8" diameter output shaft or 1000 RPM-21 -spline, 1-3/8" diameter output shaft

3.1 ROPS and Seat Belt

The tractor must be equipped with a Roll-Over-Protective-Structure (ROPS) (tractor cab or roll-bar) and seat belt to protect the operator from falling off the tractor, especially during a roll over where the driver could be crushed and killed. Only operate the tractor with the ROPS in the raised position and seat belt fastened. Tractor models not equipped with a ROPS and seat belt should have these life saving features installed by an authorized dealer. OPS-U- 0003



Operate this Equipment only with a Tractor equipped with an approved roll-over-protective system (ROPS). Always wear seat belts. Serious injury or even death could result from falling off the tractor, particularly during a turnover when the operator could be pinned under the ROPS. (SG-7)



3.2 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- 0004

OPERATION

OPERATION

3.3 Tractor Horsepower

The power required to operate a mower is determined by the tractor PTO horsepower. For most mowing conditions, the FX-209 cutter requires a tractor with at least 60 HP(45 kw). Operating the mower with a tractor that does not have adequate power may damage the tractor engine.

3.4 3-Point Hitch-Lift Type Mower

The tractor 3-point hitch must be rated to lift at least 2075 lbs(941 kg). if attaching a lift type cutter

FX-209 lift type cutters can attach to tractor's with CAT II or CAT III hitch. Refer to the tractor operator's manual for the category of the tractor used. If the hitch does not conform to ASABE Cat I or Cat II dimensions, the mower may not fit or raise properly. Consult an authorized dealer for possible modification procedures to mount nonconforming hitches.

Use the correct hitch pins for the hitch category being used. For a Cat II hitches require 1-1/8" lower and 1" upper. Cat III hitches require 1-7/16" lower and 1-1/4" upper diameter hitch pins.



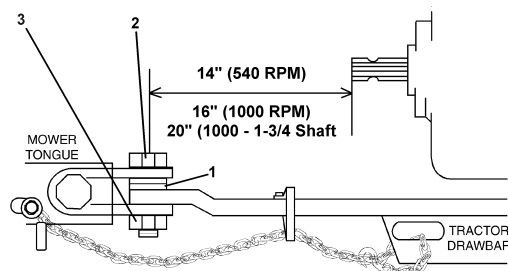
CAT III Implement / Hitch Specification

Width from outside to outside A-frame.....	38"
Quick Hitch width inside lug to lug	N/A"
Height from bottom hitch pin to top pin	27"
Lower pin diameter	1-7/16"
Upper pin diameter	1-1/4"
Linch pin diameter	21/32"

3.5 Drawbar-Pull Type Mower

For equipment operating at 540 RPM, the tractor drawbar must be positioned at a 14" distance from the hitch point to the PTO shaft end for proper operation and minimal wear to the driveline.

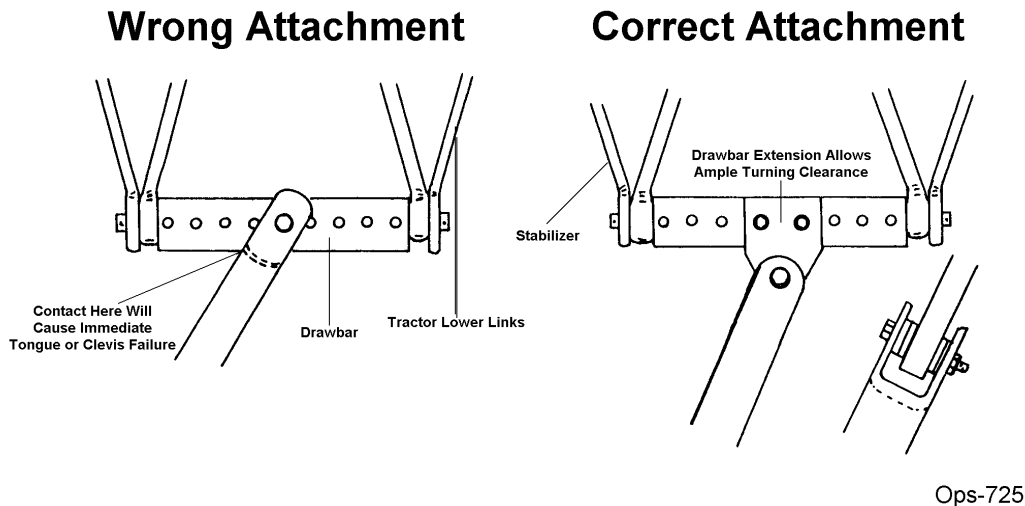
IMPORTANT REQUIRED FOR STANDARD PULL TYPE UNIT



Ops-1166

OPERATION

If attaching the mower tongue clevis to a 3-point hitch drawbar supported by the lower lift arms, the attaching point must be extended past the main bar to allow for turning without binding the clevis and bar. Lift arm stabilizers must be used with this type of drawbar to prevent the mower from swaying from side to side.



3.6 Front End Weight

A minimum of 20% total tractor weight must be maintained on the tractor front end at all times. Front end weight is critical to maintain steering control and to prevent the tractor from rearing up while driving. If the front end is too light, add weight until a minimum of 20% total weight is reached on the front tires. Front weights and weight carriers can be purchased through an authorized tractor dealership. OPS-U- 0005

3.7 Power Take Off (PTO)

FX-209 mower is designed to operate at a PTO speed of either 540 RPM and 1000 RPM. Most tractors operate at either 540, or a combination of 540 and 1000 RPM PTO speeds. The tractor PTO operating speed can be determined by the number of splines on the PTO output shaft. Those operating at 540 RPM will have a 6-spline 1-3/8" diameter shaft and those operating at 1000 RPM will have a 21-spline, 1-3/8" diameter or 20-spline, 1-3/4" diameter 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.

OPERATION

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)

⚠ 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)

4. GETTING ON AND OFF THE TRACTOR

Before getting onto the tractor, the operator must read and completely understand the implement and tractor operator manuals. If any part of either manual is not completely understood, consult an authorized dealer for a complete explanation. OPS-U- 0007

⚠ 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. (SG-12)



4.1 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- 0008

⚠ 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)



OPERATION



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



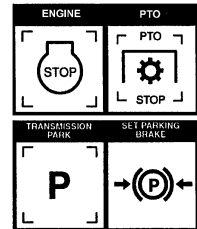
4.2 Dismounting the Tractor

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



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)



OPERATION

OPERATION

5. 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-0028*



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



6. CONNECTING THE MOWER TO THE TRACTOR

Use extreme caution when connecting the mower to the tractor. The mower should be securely resting at ground level or setting on blocks. Keep hands and feet from under the mower deck and clear of pinch points between the tractor hitch arms and mower pins. *OPS-R-0001*



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)

OPERATION

6.1 Connecting the Mower-Lift Type

1. Make sure the tractor is equipped with the correct PTO shaft. Change shafts if needed.
2. Shorten or remove the tractor drawbar to avoid interference when raising and lowering the mower.
3. Board the tractor and start the engine. Position the tractor to the mower with the 3-point lift arms positioned at the same height and to the outside of the mower hitch pins. Note: Set the 3-point lift control to "Position Control" so that the lift arms maintain a constant height when attaching the mower. See the tractor Operator's Manual for correct settings when attaching 3-point equipment.
4. Turn off the tractor engine and dismount.
5. One lift arm at a time, position the tractor lift arms over the A-frame hitch pins. Insert lynch pins to retain lift arms to the mower.
6. Walk around to opposite side and repeat procedure for remaining lift arm and hitch pin.
7. Extend or retract 3-point top link to align its end hole with the holes of the mower's top link. Insert the top link hitch pin and insert retaining pin into hitch pin.
8. Adjust any lower link check chains, guide blocks, or sway blocks to prevent the mower from swaying side to side and possible contact with tractor rear tires.

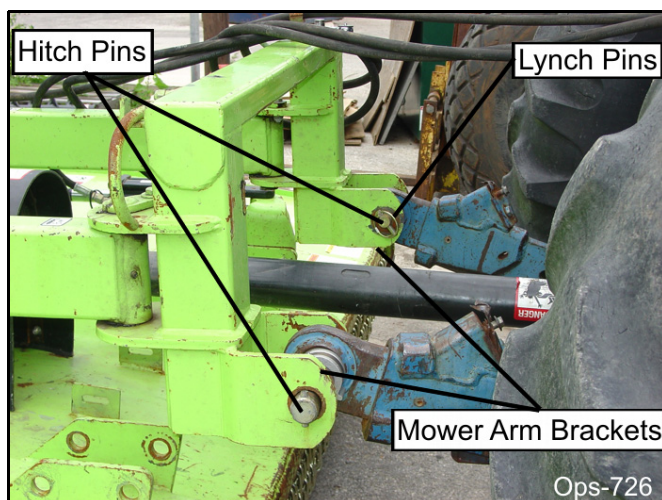


OPERATION

OPERATION

6.2 Connecting the Mower-Semi Mount & Semi Mount Swing Type

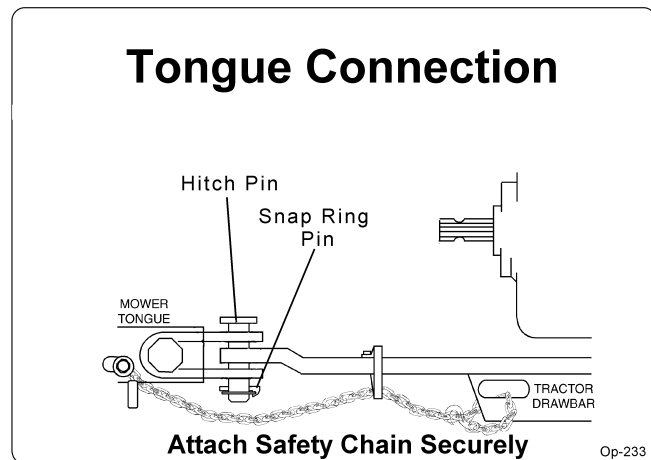
1. Make sure the tractor is equipped with the correct PTO shaft. Change shafts if needed.
2. Shorten or remove the tractor drawbar to avoid interference when raising and lowering the mower.
3. Board the tractor and start the engine. Position the tractor to the mower with the 3-point lift arms positioned in between the mower brackets. Note: Set the 3-point lift control to "Position Control" so that the lift arms maintain a constant height when attaching the mower. See the tractor Operator's Manual for correct settings when attaching 3-point equipment.
4. Turn off the tractor engine and dismount.
5. One lift arm at a time, insert hitch pins through the mower brackets and lift arms. Insert lynch pins to retain lift arms to the mower.
6. Walk around to opposite side and repeat procedure for remaining lift arm and hitch pin.
7. **NOTE:** Only use lower lift arms.
8. Adjust any lower link check chains, guide blocks, or sway blocks to prevent the mower from swaying side to side and possible contact with tractor rear tires.



OPERATION

6.3 Connecting the Mower-Pull Type

1. Make sure the tractor is equipped with the correct PTO shaft and the drawbar is extended 14" from the PTO shaft end.
2. Block the mower wheels in place and use the attached parking jack to raise or lower the tongue clevis to the height of the tractor drawbar.
3. **NOTE:** Always place jack foot on firm surface or place board under jack for support.
4. Board the tractor and start the engine. Back the tractor to the mower aligning the drawbar hitch hole with the mower hitch clevis. Turn off the engine, secure the tractor in position, and dismount.
5. 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.
6. Securely attach mower safety chain from mower tongue to tractor drawbar or drawbar support frame.
7. Lower the jack until the tongue is completely supported by the drawbar. Remove jack from the tongue and place on storage bracket of mower main frame.
8. If using a hydraulic cylinder, connect hydraulic hose ends into tractor hydraulic ports. Pressure may need to be relieved from the system to allow for ease of attachment.
9. If the mower has been attached to a 3-point hitch drawbar, adjust any tractor equipped lower link check chains, guide blocks, or sway blocks to prevent the hitch and mower from swaying side to side. Note: Never raise the 3-point lift with the mower attached as catastrophic driveline damage will occur.



OPERATION

6.4 Safety Tow Chain

If the mower is towed on a public roadway, a safety chain with tensile strength equal to or greater than the gross weight of the mower must be connected between the tractor and mower. 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

7. SETTING THE MOWER

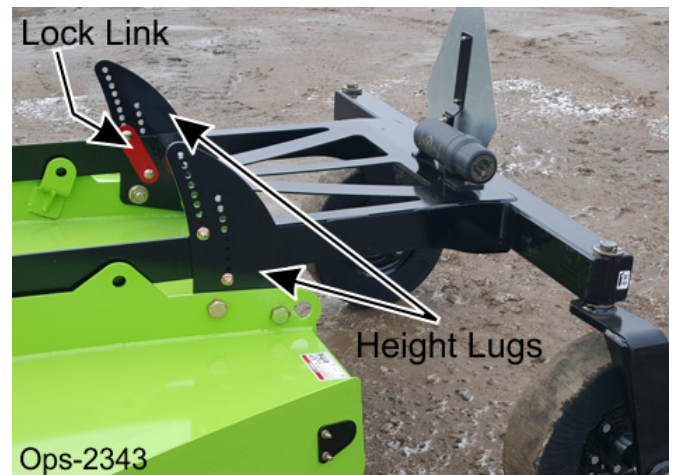
Properly setting the cutting height is essential for efficient and safe operation. A properly set mower will make a more uniform cut, distribute clippings more evenly, require minimal tractor work, and follow the contour of uneven terrain. **NOTE:** *Avoid very low cutting heights, striking the ground 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

OPERATION

OPERATION

7.1 Setting Mowing Height-Lift Type

1. Park the tractor and mower on level ground.
2. To set the cutting height raise the mower until the bottom of blades and ground measure the desired cutting height. For example if desired height is 3", measurement from bottom of blade to ground should be 3". Set the 3-point control lever stop at this position to maintain this height when raising and lowering the mower.
3. Shut down the tractor and remove the key.
4. Level the mower deck front to rear by extending or retracting the 3-point top link.
5. Level the mower side to side by manipulating one lower lift arm length. On most tractors, at least one of the lift arms is designed to allow for manipulation of its length. Shortening or extending will allow for deck leveling from side to side.
6. Securely block up the mower at this height.
7. Adjust the wheel arm to set the cutter height by adjusting the height lugs. Remove the four bolts that secure the red lock links to the height lugs. Lift or lower the cutter to the desired height and reinstall the links to lock the wheel arm in place.
8. Extend the tractor's top 3-point link so that when lifting the mower, the front of the deck will raise 2 to 2½" before the tail wheel leaves the ground. This will allow the mower to follow the contour of uneven terrain.



OPERATION

OPERATION

7.2 Setting Mowing Height-Semi Mount Type

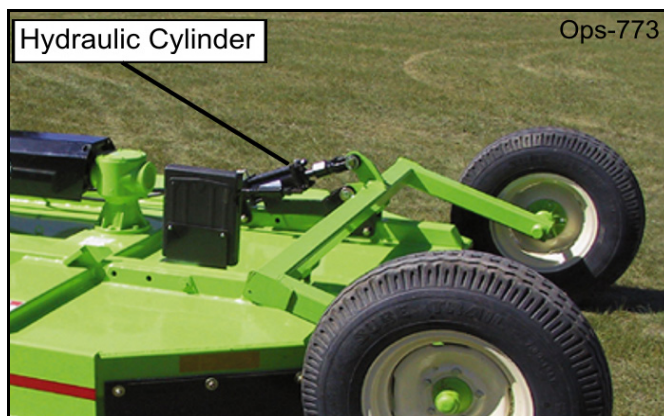
9. Park the tractor and mower on level ground.
10. First lower the front of the machine to desired cut height using the tractors lower lift arms.
11. Using the hydraulic cylinder position the mower so the skid shoes are 2" less off the ground than the desired final cut height. For example, if a 3" cut is desired, raise or lower the mower until the skid shoes are 1" off the ground. Tighten the depth stop collar on the hydraulic shaft to maintain a set cutting height each time the mower is raised and lowered. Stroke control spacers can be used if more adjustment is desired.
12. Adjust the mower using three point lift arms so that the rear of the mower is approximately 3/4" lower than the front. Place the tractor 3-point control lever stop at this point to maintain deck pitch.



If the mower is attached to a standard hitch drawbar, adjust any tractor equipped lower link check chains, guide blocks, or sway blocks to prevent the hitch and mower from swaying from side to side. Never raise the 3-point lift with the mower attached as catastrophic driveline damage will occur.

7.3 Setting Mowing Height - Pull Type

13. Park the tractor and mower on level ground.
14. To set the cutting height raise the mower until the bottom of blades and ground measure the desired cutting height. For example if desired height is 3", measurement from bottom of blade to ground should be 3". When using the hydraulic cylinder use the depth stop to set cutting height.
15. Adjust the mower leveling rod so that the rear of the mower is approximately 3/4" lower than the front.
16. If the mower is attached to a 3-point hitch drawbar, adjust any tractor equipped lower link check chains, guide blocks, or sway blocks to prevent the hitch and mower from swaying from side to side. Never raise the 3-point lift with the mower attached as catastrophic driveline damage will occur.



OPERATION

7.4 Setting Deck Pitch

Lower Horse Power - Better Fuel Efficiency

To increase fuel efficiency and lower horsepower requirements for mower operation, the mower should be operated with the deck approximately 3/4" LOWER IN THE FRONT THAN THE REAR. Operating the mower at this pitch will allow the mower to cut the grass only once and requires less work from the tractor.

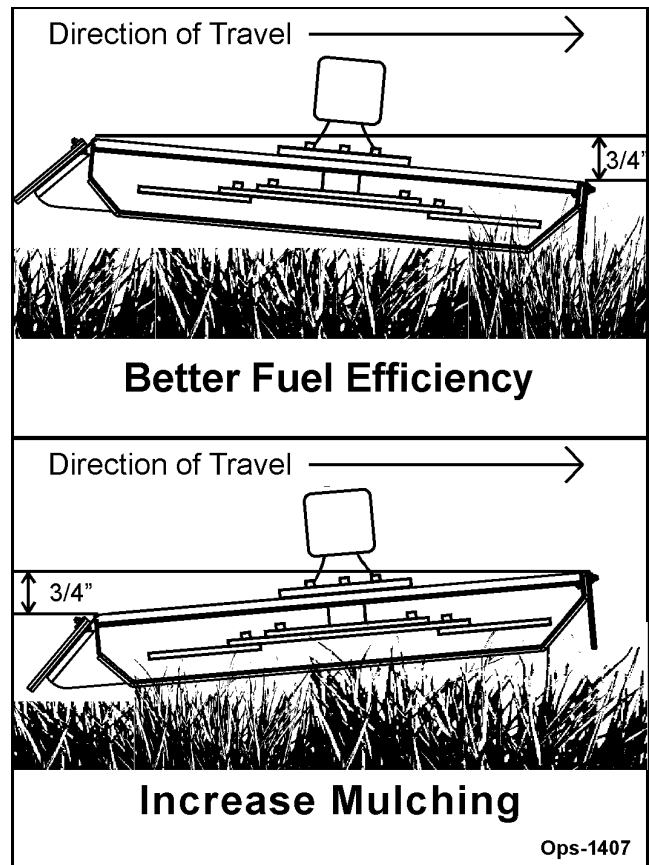
Increase Mulching

To increase mulching of the grass or crop material during mower operation, the 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. Retighten the jamnuts after the deck pitch has been set. OPS-U-0041



OPERATION

7.5 Setting Deck Pitch-Lift Type

1. Lower the mower until the rear of the mower is resting securely on its tail wheel.
2. Lower the 3-point lift arms further until the rear of the mower is at least 3/4" higher than the front.
3. Place the tractor's 3-point control lever stop at this point to maintain the deck pitch.

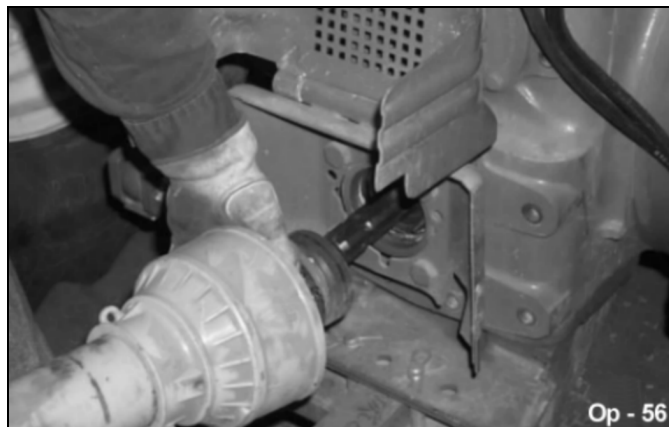
7.6 Setting Deck Pitch-Pull Type

Adjust the leveling rod linking the tongue to the rear axle until the front of the mower is at least 3/4" higher in the front than the rear. To lower the front, lengthen the leveling rod and to raise the front, shorten the leveling rod.

8. 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, pull the driveline yoke collar back 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_A



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)

9. 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-0029

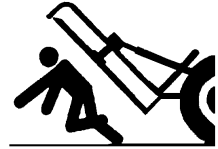


Always disconnect the main PTO Driveline from the Tractor before performing service on the Implement. Never work on the Implement with the tractor PTO driveline connected and running. Rotating Parts, Blades or Drivelines could turn without warning and cause immediate entanglement, injury or death. (S3PT-11)

OPERATION

⚠ DANGER

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 serious injury or even death. (SG-14)



⚠ 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)



OPERATION

9.1 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 manufacturers 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
- Tractor ROPS 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



OPERATION

OPERATION

9.2 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*

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*



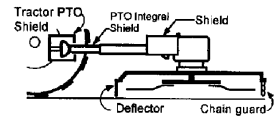
- Perform scheduled lubrication as detailed in the maintenance section.
- Ensure all decals are in place and legible.
- Ensure the driveline is securely attached to tractor. Make sure the driveline yoke locking collar is securely seated in the grooves of the PTO shaft by pushing and pulling the yoke several times.
- Lift Type-Inspect that the 3-point hitch pins are the proper size, correctly installed, and secured to the tractor lift arms with retaining pins inserted.
- Pull Type-Inspect that the hitch pin is the correct size. *OPS-R-0008_E*
- Ensure deflectors and/or chainguards are in position and not damaged. Replace worn, broken, and missing pieces. *OPS-R-0068*



OPERATION

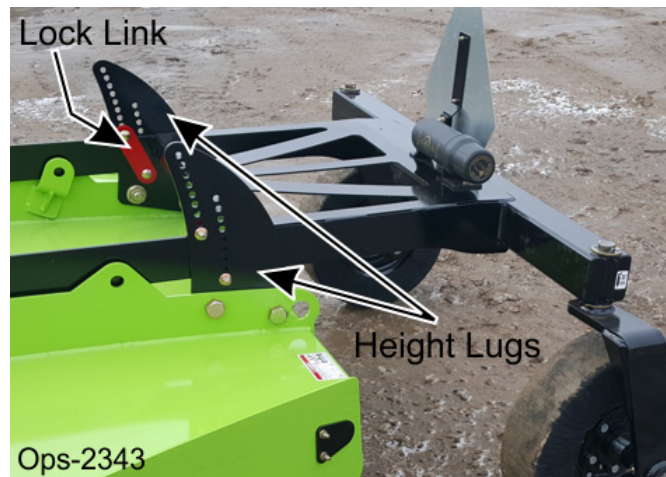
⚠ DANGER

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-3)



OPERATION

- Lift Type - Ensure the Wheel Arm caster frame Height Adjustment Lug and Lock Link are properly installed and fully secured at correct cutting height.
- Pull Type - Ensure that the Levelling Rod and hydraulic cylinder are installed and retained correctly to provide desired cutting height.
- Inspect all bolts and screws and tighten to the recommended torque.



- Ensure the tractor PTO master shield and the mower slip clutch shield are in place, lowered, and in good condition.
- Ensure the driveline integral shield is in good condition and rotates freely.
- Ensure the driveline slip clutch (if equipped) is properly adjusted. OPS-R-0039



OPERATION

OPERATION

- Inspect the gearbox oil level using the dipstick level indicator and replenish if needed
- Ensure the gearbox vent is in place and free from clogs.



- 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 during operation.
- Ensure blade pan nut is tightened with the cotter pin inserted and spread. OPS-R-0041

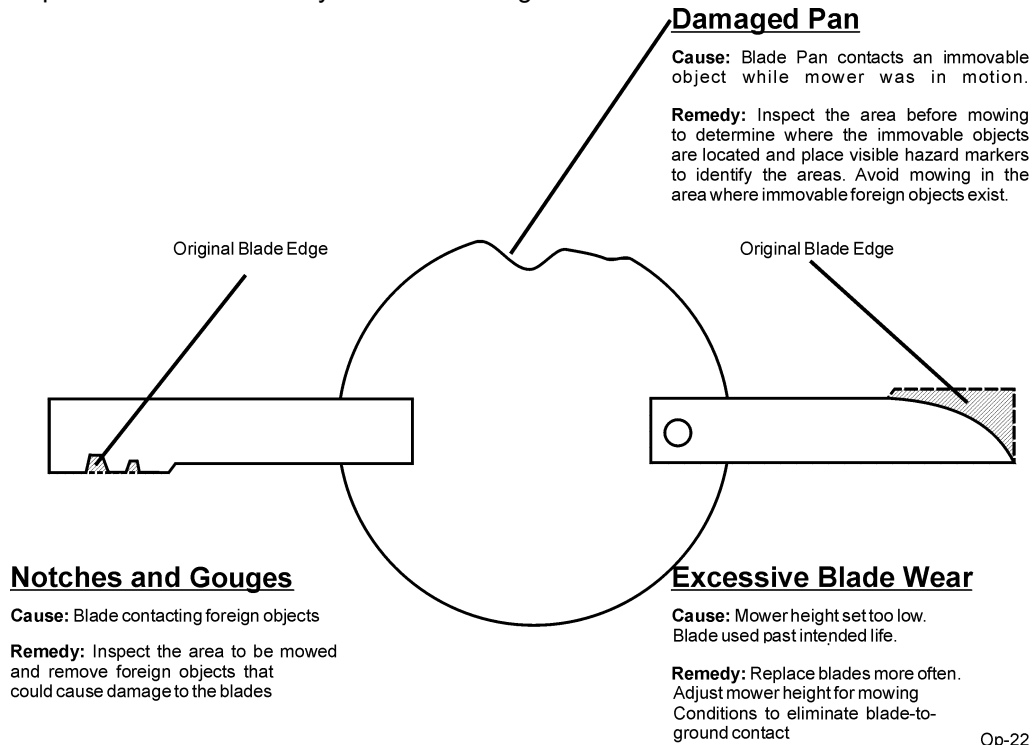


Replace bent or broken blades with new blades. NEVER ATTEMPT TO STRAIGHTEN, WELD, OR WELD HARDFACING ON BLADES SINCE THIS WILL LIKELY CRACK OR OTHERWISE DAMAGE THE BLADE WITH SUBSEQUENT FAILURE AND POSSIBLY CAUSE SERIOUS INJURY FROM THROWN BLADES. (SGM-10)

OPERATION

9.3 Cutting Component Inspection

Inspect blade pan and blade assembly for the following:



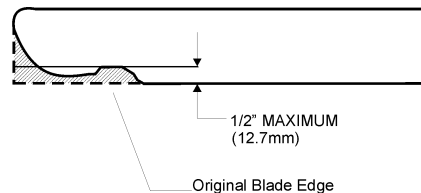
OPS-U-0031



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-0032



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

Op-23

OPERATION

OPERATION

9.4 Blade Bolt Inspection

Inspect Blade Bolt Head daily for wear as followed:

Excessive Blade Bolt Wear

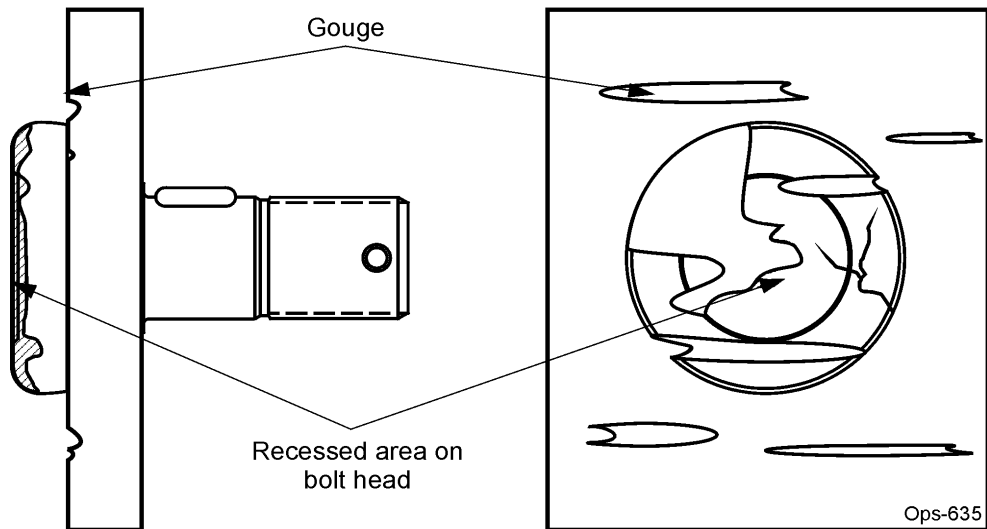
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

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.



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

OPERATION

Rotary Mower PRE-OPERATION Inspection



Mower ID# _____

Date: _____

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

Inspection Sheet



www.algqr.com/rmi



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 O.K.
The Operator's Manual is in the canister on the mower		
All safety decals are in place and legible		
The tongue/hitch connection bolts & pins are tight		
There are no cracks in tongue or hitch		
The tow chain is secured to the tractor & mower		
The hydraulic cylinders 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 & in good condition		
Driveline/gearbox shields are in good condition		
Driveline clutches are in good condition; not frozen		
Driveline telescoping members & U-joints are lubricated		
Driveline yokes are securely attached to PTO & 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 lug nuts are tight		
Transport locks are in good condition		

Make: _____

Shift: _____

Operator's Signature: _____

DO NOT OPERATE an UNSAFE TRACTOR or MOWER

OPERATION

OPERATION

Tractor PRE-OPERATION Inspection



Tractor ID# _____ Make _____

Date: _____ 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 O.K.
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		

Operator's Signature: _____

DO NOT OPERATE an UNSAFE TRACTOR or IMPLEMENT

OPERATION

DRIVING THE TRACTOR AND IMPLEMENT

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- 0012*



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



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)

OPERATION

OPERATION

9.5 Starting the Tractor

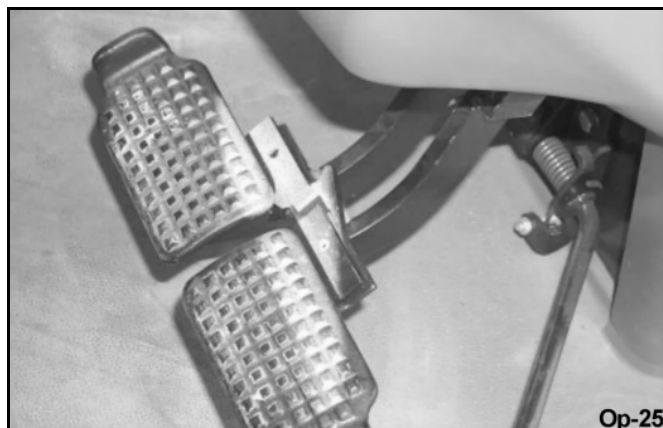
The procedure to start the tractor is model specific. Refer to the tractor operator's manual for starting procedures for your particular tractor. Consult an authorized dealer if the starting procedure is unclear. Ensure the 3-point control lever is in the lowered position and the PTO is disengaged before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



9.6 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 cutting conditions, locking the differential provides no benefit and should not be used. OPS-U-0013



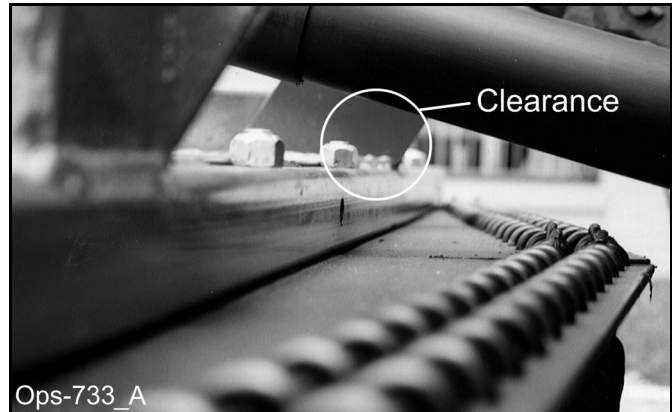
⚠ WARNING

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.

Raising the Mower

OPERATION

Using the tractor 3-point hitch control lever-lift type or hydraulic remote lever-pull type, raise the mower off the ground about 6", or just high enough to clear any ground obstacles. When raising the mower, make sure all connection points are securely attached and at least 1" clearance is maintained between the driveline and the deck. If necessary, place an upper lift stop on the 3-point hitch control lever to limit the height the mower can be raised to avoid driveline damage.



9.7 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. If the tractor becomes stuck or the tires are frozen to the ground, reverse the tractor out to prevent overturning.

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



WARNING

Be particularly careful when transporting the Implement with the Tractor. Turn curves or go up hills only at a low speed and using a gradual steering angle. Rear mounted implements move the center of gravity to the rear and remove weight from the front wheels. Make certain, by adding front ballast, that at least 20% of the tractor's weight is on the front wheels to prevent rearing up, loss of steering control or Tractor tip-over. Slow down on rough or uneven surfaces to prevent loss of steering control which could result in property damage or possible injury. Do not transport unless 3-Point lift lever is fully raised and in the latched transport position. Dropping implement in transport can cause serious damage to the tractor and/or Implement and possibly cause the operator or others to be injured or killed.

(S3PT-02)

OPERATION



Do not operate this unit at full PTO speed when making a turn greater than 45. A serious driveline failure or PTO shaft failure could result. Always reduce engine speed when making sharp Turns.

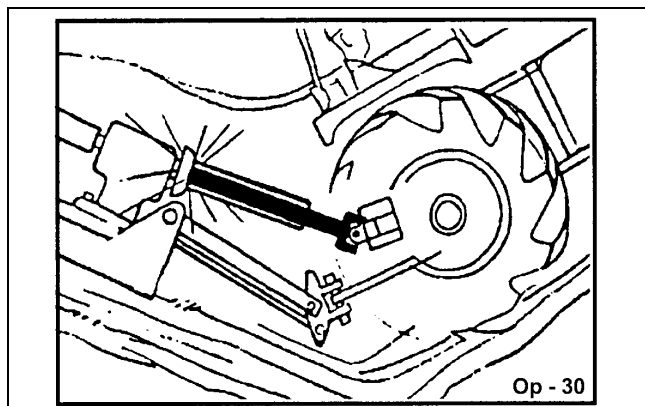
To avoid overturns, drive the tractor with care and at safe speeds, especially when operating over rough ground, crossing ditches or slopes, and turning corners. Tractor wheel tread spacing should be increased when working on inclines or rough ground to reduce the possibility of tipping.

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.



9.8 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.

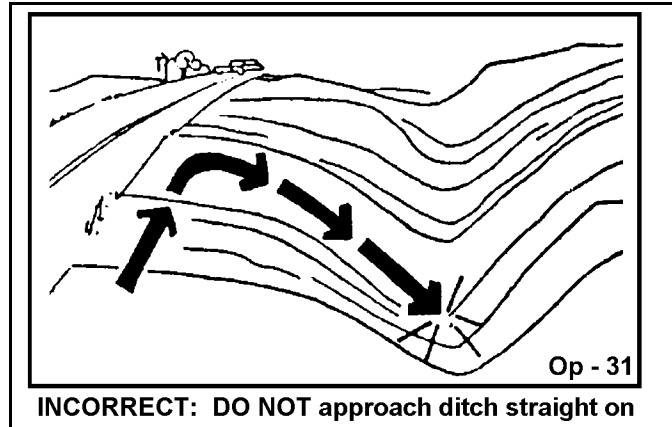


Damage resulting from over-collapse of the driveline's inner profile and its outer housing may allow the driveline to come loose from the Tractor which could cause bodily injury to the operator or bystanders and/or extensive damage to the Tractor or Implement. OPS-R-0020

OPERATION

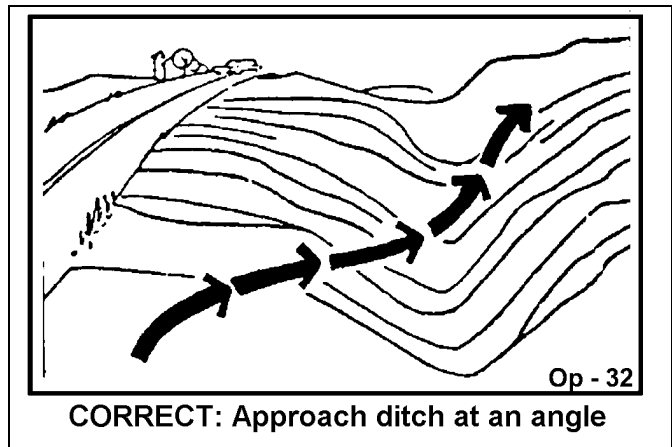
When confronted with an incline or ditch, do not approach from an angle which is perpendicular or straight on as damaged to over collapse of the driveline may occur.

When crossing such terrain, the implement should be fully lowered for a lower center of gravity and added stability. OPS-R-0021



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



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

OPERATION

⚠ 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)



⚠ 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)

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



Remove Foreign Material



Raise Mower over solid objects

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

In case of an 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.

OPERATION



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)

OPERATION

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)

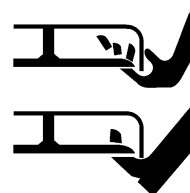
Constant Velocity joints may be operated at angles up to 80 deg, but only for brief periods of time (during turns) and never continuously. (Pull type units)



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)



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



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



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



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)

10.5 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.

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_H

OPERATION

OPERATION

⚠ 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 300 feet (90 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 type of items discontinue mowing. (SGM-1)

⚠ WARNING

If a material blockage occurs in the inlet or exhaust 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 and 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)

⚠ DANGER

Only mow where you have good visibility and can clearly see the ground and surrounding area that you are working in. Reduce speed when vision of the area is reduced or if you are avoiding foreign debris.

When you get to the end of a pass, slightly raise the mower (2-4") before turning. 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.



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Large, dense, or wet vegetation may need to be mowed in two or more passes to achieve a uniform cut. In such conditions, raise the cutting height to 12" or more on the first pass.



Then lower the mower to the desired height and mow the vegetation a second time. If possible, select a mowing pattern that is at a 90 degree angle to the first pass to reduce streaking and provide a more even cut.



Stay alert and watch for trees, low hanging limbs, power lines, and other overhead obstacles and solid ground objects while you are operating. Use care to avoid hitting these items.



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10.6 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 damage 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*

OPERATION

10.7 Shutting Down the Implement

To shut down attached mower head, first bring the tractor to a complete stop. Decrease engine RPM to idle then disengage cutterhead. The mower head will come to a complete stop within a suitable amount of time. Do not engage or disengage the cutterheads at a high RPM unless there is an emergency situation.

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



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11. DISCONNECTING THE MOWER FROM THE TRACTOR



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)

OPERATION

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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 it to the ground. If it 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 caused by the tractor hitch arms and mower pins.



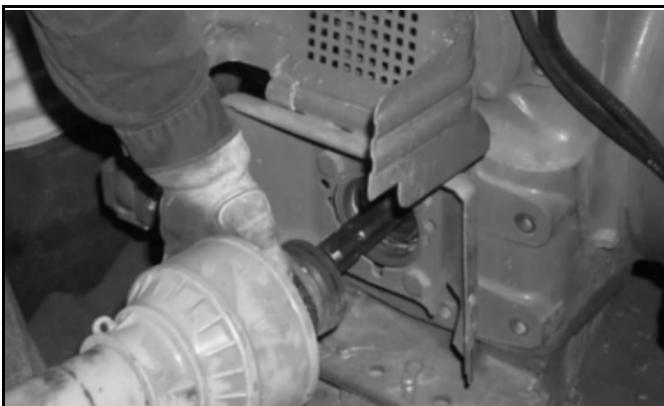
Lift Type Mower- To disconnect the mower, first extend the tractor 3-point hitch top link to remove tension on the top link hitch pin. When the pin is loose and easy to rotate, remove the pin from the mower. Next remove both lower hitch pins.

Pull Type Mower- To disconnect the mower, first relieve hydraulic pressure by moving the control lever back and forth several times. Lower the parking jack and raise the mower until the tongue clevis is no longer resting on the tractor drawbar and is supported solely by the jack. Make sure that the jack foot is securely resting at ground level or supported by a block. Then remove the hitch pin. If a hydraulic cylinder was used, remove its hose end from the tractor port and secure it to the mower to prevent contact with dirt.



Semi Mount Unit- To disconnect the cutter, lower the cutter to the ground to relieve tension from the lower link pins. When the pins can rotate freely, remove them from the swing arms.

After disconnecting the hitch points, remove the mower driveline from the tractor PTO shaft. Lay the driveline down carefully to avoid damaging the driveline or its shield. Do not let the driveline fall into mud or dirt, which can contaminate the bearing and shorten the life of the driveline.



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12. MOWER STORAGE

It is recommended that the Cutter be stored with the center section and both wings fully lowered to ground level. If the cutter 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 cutter 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:

Clean any dirt or debris off the mower deck.

- Scrape any accumulated cuttings off the under side of the deck. Coat the deck underside and any other exposed metal surfaces with oil to prevent rusting.
- If the mower is left unused for an extended period of time, install the transport pins. Disconnect the hydraulic cylinders at the rod end and retract the rods for storage. Retracting the cylinder rods will prevent rusting, ensure that the cylinders are full of oil, and relieve pressure in the hydraulic circuit. If the cylinder rods are not retracted smear grease over exposed hydraulic cylinder rods.
- Apply grease to exposed threaded adjustment screws. These include the cylinder depth stop collar and the frame leveling rod.
- Install the hitch jack on the jack mount located on the outer hitch frame.
- Lubricate all mower grease points and fill gearbox oil levels as detailed in the maintenance section.
- 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.
- Tighten all bolts and pins to the recommended torque.



It is critical that the driveline clutch 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 Slip Clutches of the maintenance section in this manual. OPS-R-0032_E

When disconnecting from the tractor for short period of time, swing the PTO support upright and lay the PTO driveline into the cradle. When storing the mower for an extended period of time, it is recommended the driveline be removed from the machine and stored inside.

Important

When connecting the cutter to the tractor, ensure the PTO support is swung down, and out of the way.

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

13. 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 judgement and safe operation practices when transporting the tractor and implement between locations. By using good judgement and following safe transport procedures, the possibility of accidents while moving between locations can be substantially minimized. OPS-U-0017



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



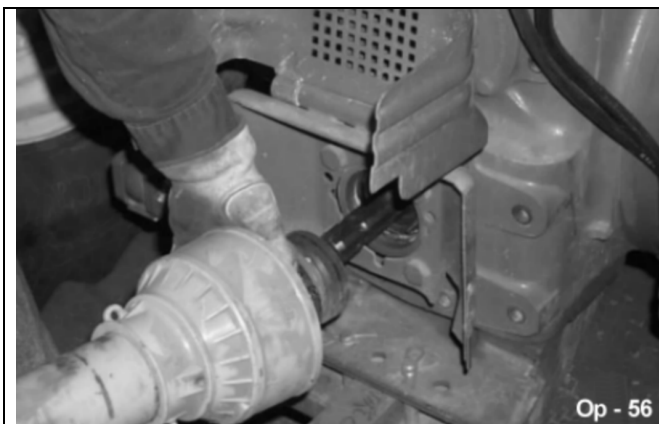
OPERATION

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 at least 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_E



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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_C

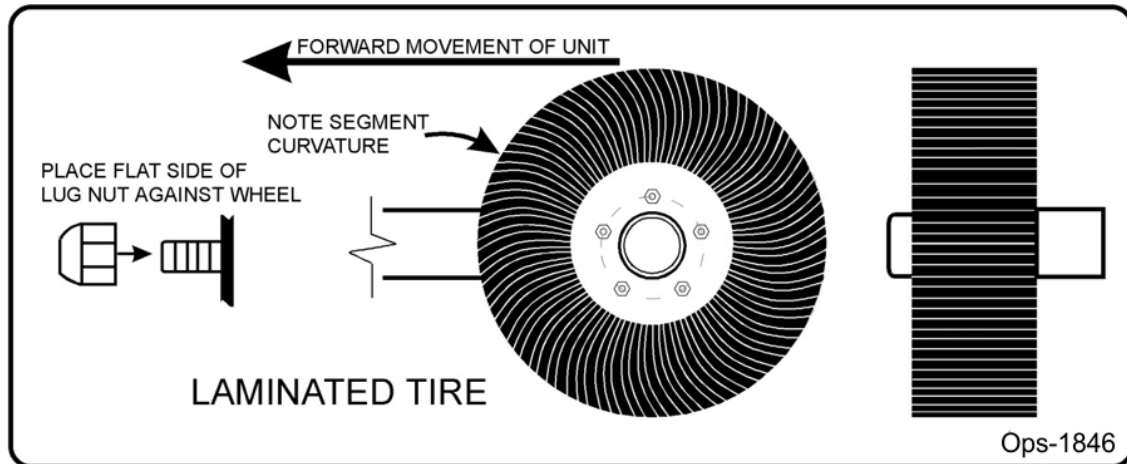


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OPERATION

13.1 Tire 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

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 speeds 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.

OPERATION

Tire Speed / Inflation Pressure:

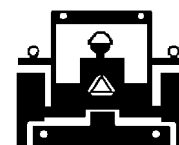
TIRE ASSEMBLY	TRANSPORT SPEED	INFLATION PRESSURE
Laminated Tires	20 kph or 12 mph	Not Applicable
Forklift Tire, 6.5 x 10 Ind. Deep Traction	40 kph or 25 mph	90 PSI / 6.2 bar / 620 kPa
Aircraft Tires	40 kph or 25 mph	40 PSI / 2.8 bar / 280 kPa
Aircraft Tires, Foam Filled	40 kph or 25 mph	Not Applicable
Tire 700-15 LRD	40 kph or 25 mph	60 PSI / 4.1 bar / 410 kPa
Tire 11L-15SL 8 Ply	40 kph or 25 mph	36 PSI / 2.5 bar / 250 kPa
Tire 11L-15 FI 12 Ply	40 kph or 25 mph	85 PSI / 5.7 bar / 570 kPa
Tire ST225 / 75D15	40 kph or 25 mph	65 PSI / 4.5 bar / 450 kPa

Ops-1394

13.2 Transporting on Public Roadways



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)



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.

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- 0020



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OPERATION

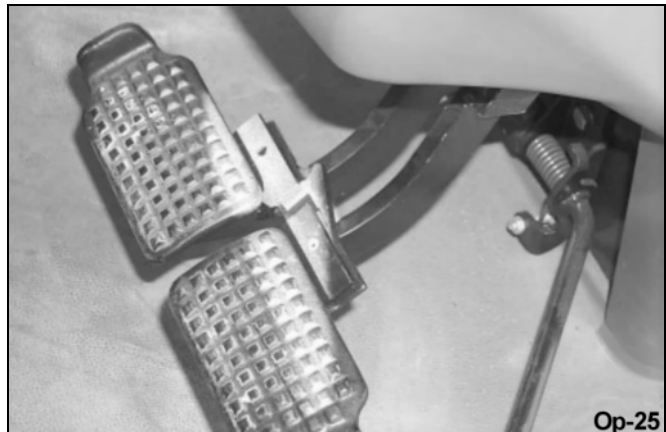
Make sure that all tractor flashing warning lights, headlights, and brake/tail lights are functioning properly before proceeding onto public roads. While newer model tractors have plenty of lighting to provide warning signals and operating lighting, most older models are only equipped with operating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



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*



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



OPERATION

OPERATION

13.3 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. *OPS-U- 0024*



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. *OPS-U- 0025*



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. *OPS-U- 0026*



OPERATION

14. TROUBLESHOOTING GUIDE

Problem	Possible Cause	Possible Remedy
Excessive Vibrations	Check Gear box bolts. Check For loose nuts on blade holder and blades Check for bent output shaft. If shaft is bent oil will normally leak from the bottom seal. Check to see if blades are free swinging. Check for even wear on each blade tip. Were both blades changed at the same time? Blade Broken. Blade carrier bent. Blade hub not properly seated on shaft New Blade or bolts matched with worn blade or bolts. Drivelines not phased correctly. Implement & Tractor yokes must be in line.	Tighten if loose. Tighten If loose Replace shaft if bent. Free blades so they swing Weigh blades. Weight should be within 1 oz. Always replace both blades Replace blades, in sets. Replace carrier. Remove hub, check tapered spline shaft, clean and replace. Replace blades or bolts in sets Replace Drivelines.
Gearbox Overheating	Low on lubricant. Improper type lubricant. Excessive trash build-up around gear box Bearing or gears set up improperly	Fill to level plug. Replace with proper lubricant. Remove trash. Consult your dealer.
Gearbox Noisy	Rough gears. Improper Gear Mesh Worn bearings. Low Lubricant.	Run in or change gears. Reshim for proper backlash Replace bearing Check Lubricant level
Gear Box Leaking	Damaged oil seal Bent shaft. Shaft rough in oil seal area. Oil seal installed wrong. Oil seal not sealing in the housing on OD of seal. Oil level too high. Sand hole in casting. Gasket damaged. Bolts loose.	Replace Seal. Replace oil seal and shaft. Replace or repair shaft. Replace seal. Replace seal or use a sealant Drain oil to proper level. Replace castings or gearbox. Replace gasket. Tighten bolts.

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Blade Bolts won't stay tight

Bolts not tightened.
Bolt hole elongated or oversized
Locknut worn out.

Tighten bolts to 600 ft. lbs.
Replace Bushing or Blade Carrier.
Replace Locknut.

Tongue bending or binding in turns

Improper Drawbar.

Add attaching Plate to all 3-Point drawbars. See section on attaching mower to tractor.

Torque limiter slipping excessively

Excessive load
Improper Adjustment
Friction plates worn
Oil on friction plates

Machine is overloaded, reduce ground speed and material intake
Adjust Springs
Replace plates
Replace plates

Oil leaking from hydraulic cylinder vent

Oil leaking past piston ring, a small amount of leakage is normal
Cylinder wall scored or pitted

On main lift cylinder use depth stop to carry. If leakage is excessive replace piston rings.
Replace cylinder

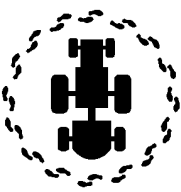
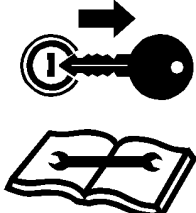
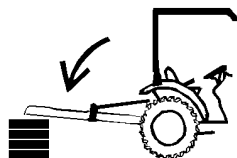
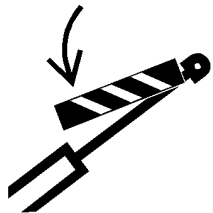
MAINTENANCE SECTION

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 SERIOUS INJURY OR DEATH 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**, 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.
- **PUSH and PULL** Remote Hydraulic Cylinder lever to relieve hydraulic pressure.
- **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.

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

Operating, servicing and maintaining this equipment can expose you to chemicals including gasoline, diesel fuel, lubricants, petroleum products, engine exhaust, carbon monoxide, and phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. This website, operated by California's Office of Environmental Health Hazard Assessment, provides information about these chemicals and how individuals may be exposed to them.

PN HM01

MAINTENANCE

PARTS INFORMATION

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)

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.



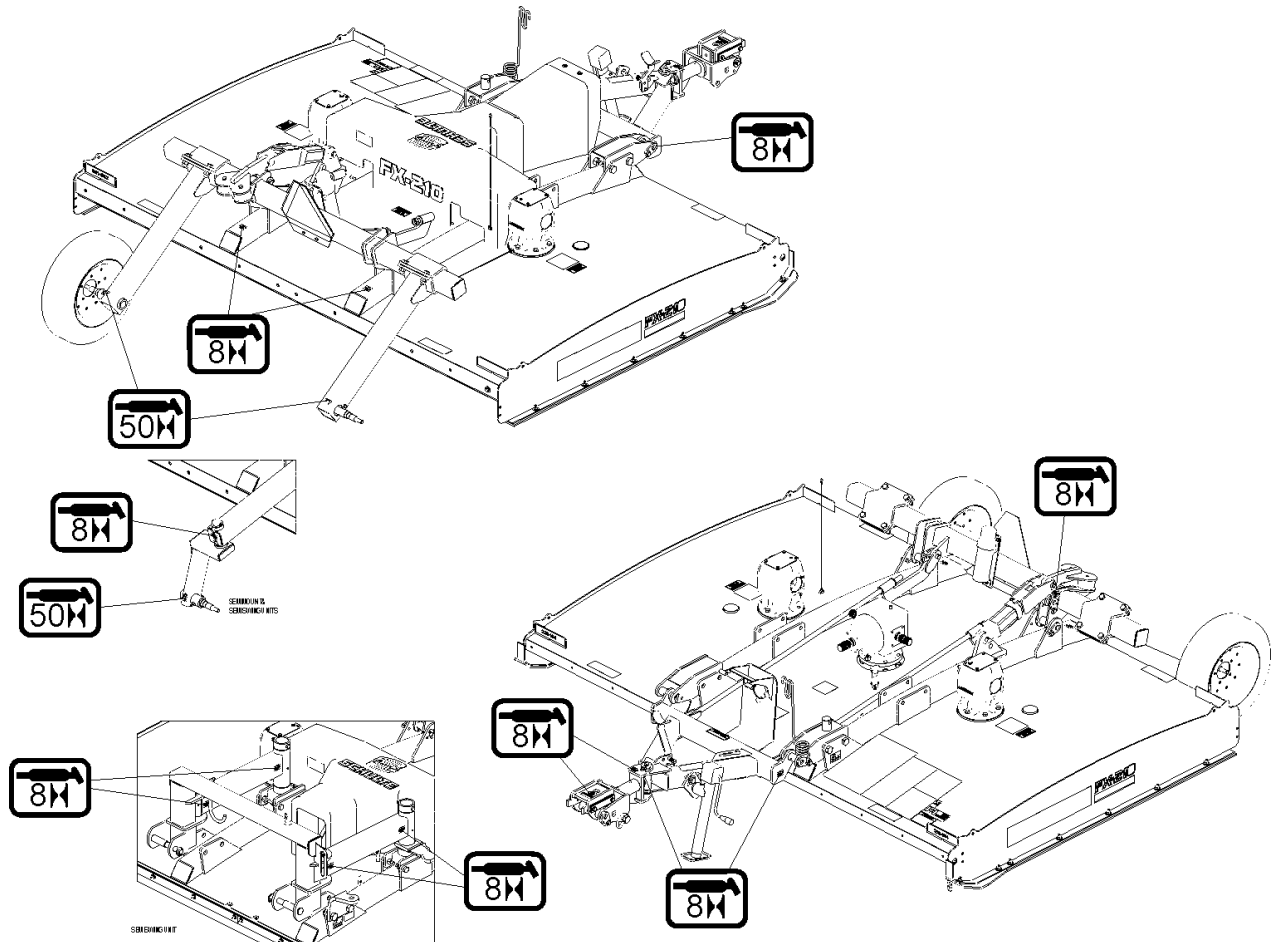
WARNING Always disengage the PTO before raising the Rotary Cutter for transporting or making adjustments.

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.*

MAINTENANCE

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.



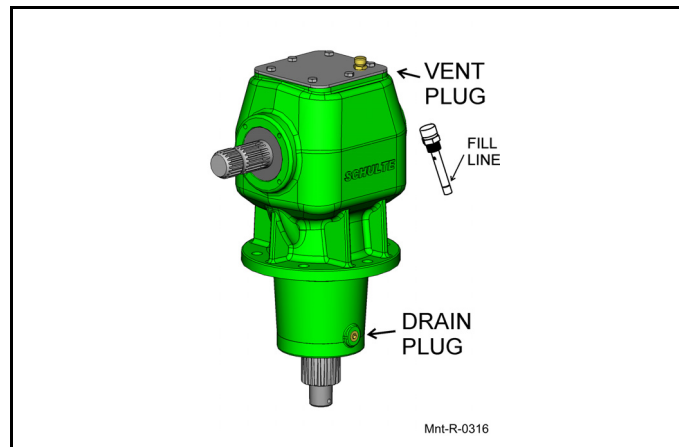
MAINTENANCE

MAINTENANCE

GEARBOX

Procedure for refilling right angle gearbox:

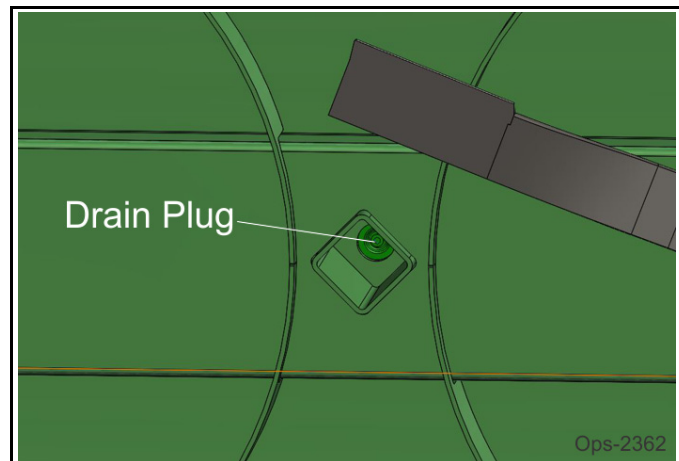
1. Park unit on a level surface. Install the lock pin and block the unit to prevent falling or rolling.
2. From under the cutter, remove the blade carrier to access the drain plug.
1. Remove the drain plug and drain out oil.
3. Reinstall the drain plug and blade carrier.
4. Remove the vent plug/ dipstick.
5. Fill gearbox until oil level reaches the fill line on dipstick. Capacity is approximately 4.1 liters (4.33 qt.) for the down boxes. Do not screw in dipstick when checking oil level.
6. Reinstall vent plug/ dipstick. Dispose of old oil in accordance with the local regulations.



TEE BOX

Procedure for refilling Center Tee Box:

1. Park unit on a level surface. Install the lock pin and block the unit to prevent falling or rolling.
2. From under the cutter, using an extension go up through the Tee Box Mounting Tube to access and remove the drain plug.
3. Remove the 3/8" drain plug and drain out the oil.
4. Reinstall the drain plug.
5. Remove the vent plug from the top of the Tee Box.
6. Fill the Tee Box to within 1" of the top. Capacity is approximately 2.5 liters (2.64 qt.) for the Tee Box.
7. Reinstall vent plug. Dispose of old oil in accordance with local regulations



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

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

IMPORTANT

CHECK OIL LEVEL IN ALL GEARBOXES BEFORE OPERATION

MAINTENANCE

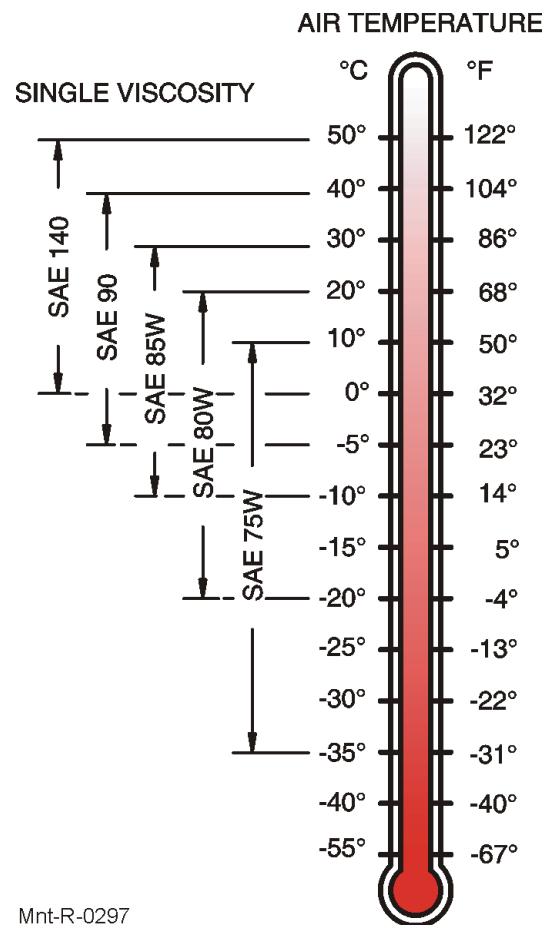
Gearbox oil should meet the following specifications:

-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

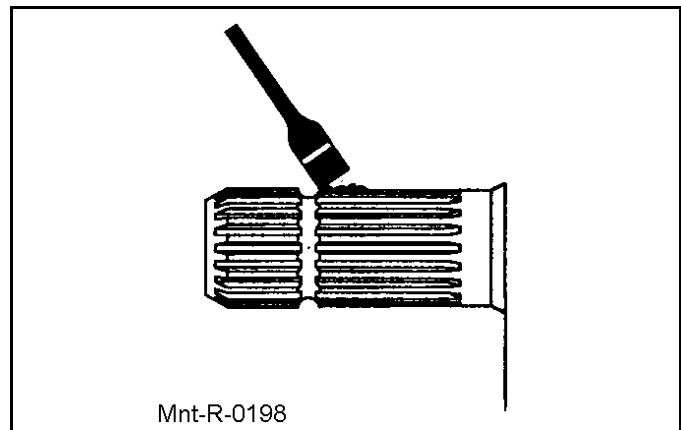
DRIVELINES

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

MAINTENANCE

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 can-not 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.

Universal Joint Assemblies

Tractor Shaft, 3-Point Hitch

-Cross Journals: 2-3 pumps every 50 hours.

Lubricate until grease purges from underneath all four needle bearing caps

-Shield Retaining Bearings: 2 pumps every 8 hours.

Important

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

-Telescoping Tubes: 8-10 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

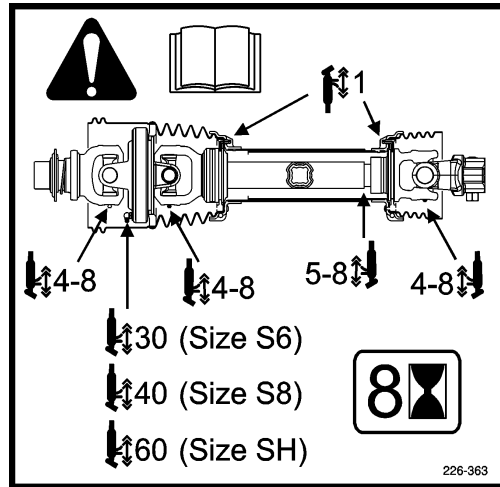
If sliding members are allowed to dry out to the point where the two halves cannot slip freely, damage to the rotary cutter or tractor may occur.

- Rapid fit yoke: Every two days

MAINTENANCE

MAINTENANCE

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.

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



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

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 foot pounds 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.

Retighten 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**

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

MAINTENANCE

MAINTENANCE

Blade Carrier Installation

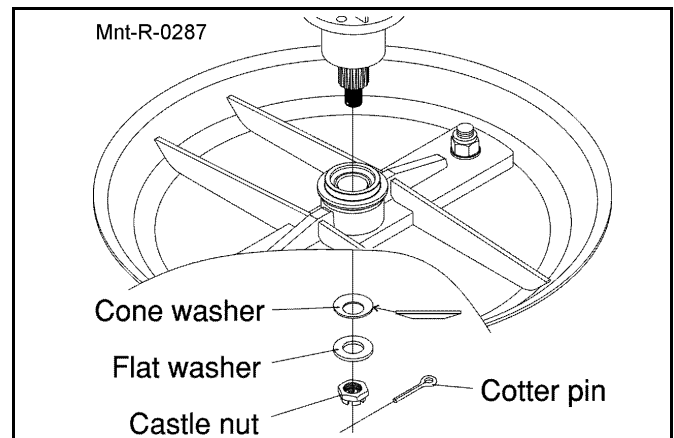
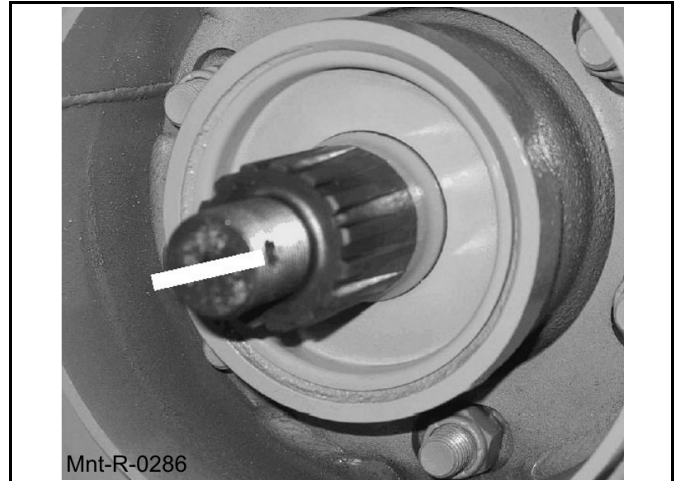
Clean the taper and splines on both the blade carrier and output shaft. Castle nuts and cotter pins are used to tighten the cutter pans to the splined shaft on the cutter gearboxes. A cone washer is used between the nut and the gearbox main shaft. The washer must cone down towards the nut. A flat washer may be required if the hole on the shaft and the slots on the castle nut do not line up.

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 2-1/8" socket can be used to torque the M36 nut to 600 ft-lbs(814 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. Retighten the nut to 600 ft-lbs(814 Nm) dry assembly. Install new cotter pins when retightening these nuts.

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



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

MAINTENANCE

Blade Bolt Inspection

Inspect Blade Bolt Head daily for wear as followed:

Excessive Blade Bolt Wear

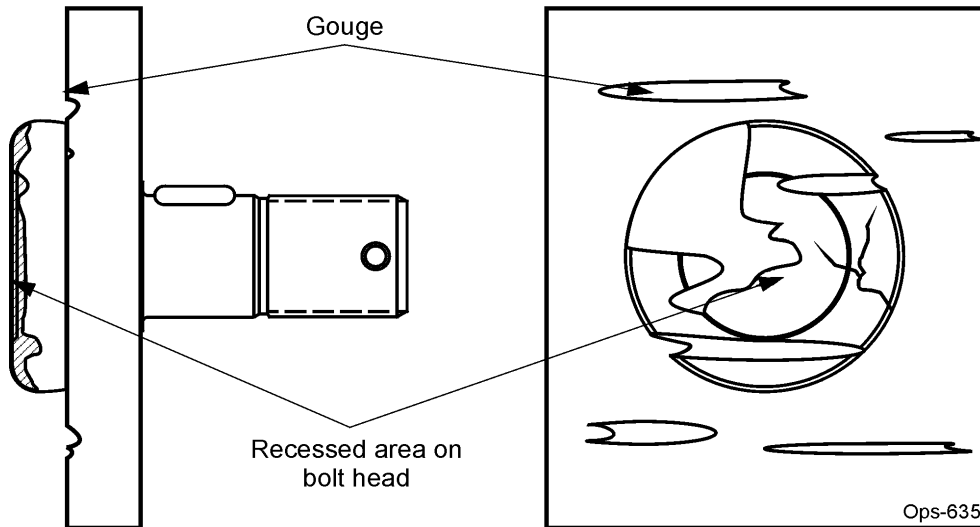
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

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.



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

MAINTENANCE

SLIP CLUTCHES

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

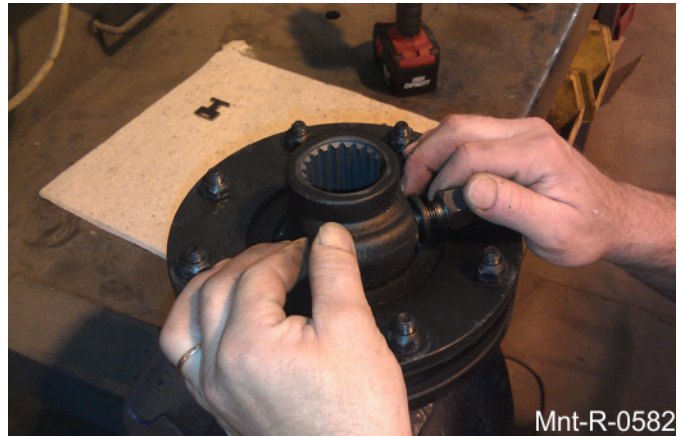
Everyone of these slip clutches are pre-set and run-in by the Schulte supplier, so they should not be adjusted by the dealer or end user.

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.



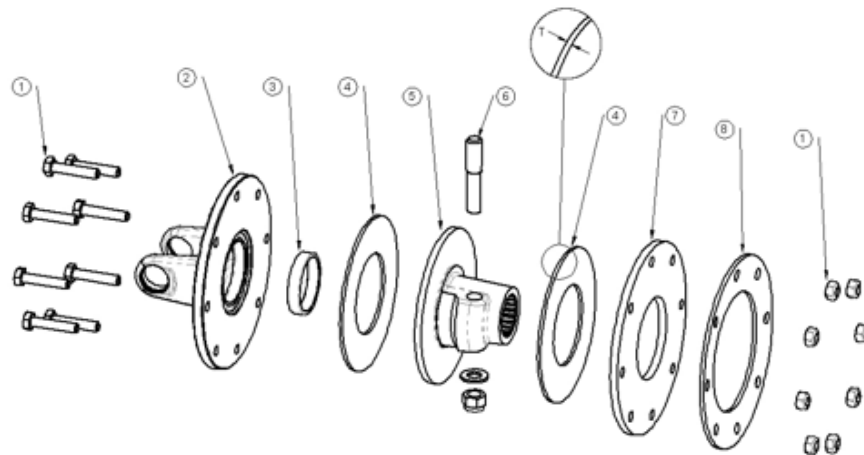
MAINTENANCE

3. Separate the parts and inspect for signs of corrosion, cracks and rust.
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).



MAINTENANCE

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-0586**). Be careful not to contaminate any of the internal parts of the clutch with grease or oil from hands or tools during reassembly.

MAINTENANCE

MAINTENANCE

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



Mnt-R-0585



Mnt-R-0587

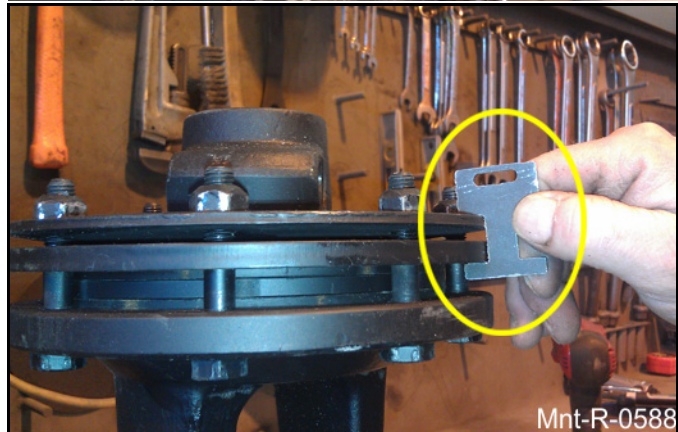
3. Install the perimeter bolts and tighten the nuts uniformly to increase the spring load evenly.
4. Tighten the nuts evenly all the way around until the 17mm Clutch Gauge fits snugly over the spring and pressure plate as shown.
5. Use small adjustments to make sure the 17mm Clutch Gauge fits snugly 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.



Mnt-R-0583

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.



Mnt-R-0588

MAINTENANCE

HUBS & SPINDLES

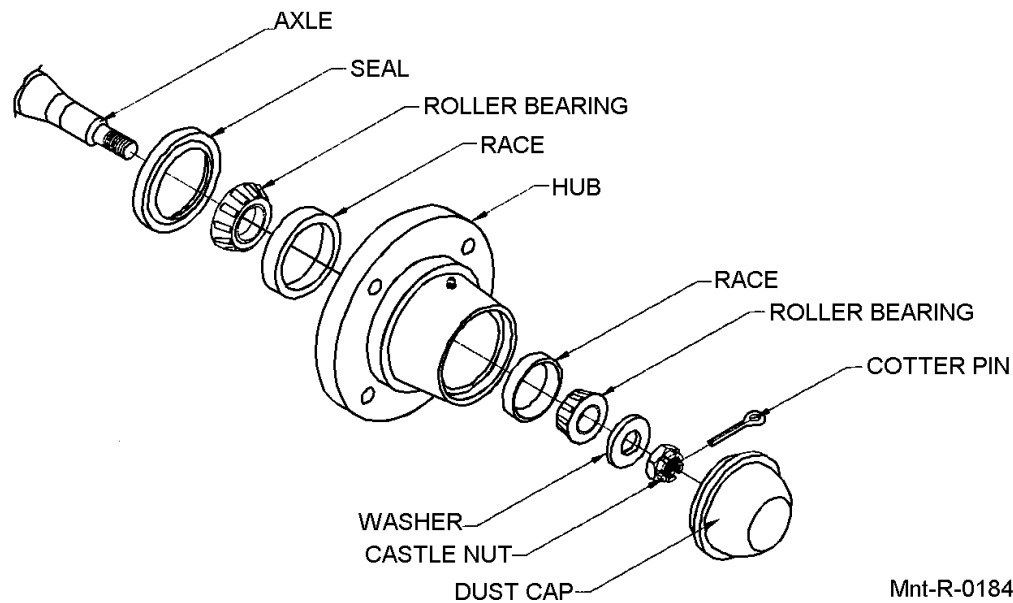
Check hubs weekly for bearing play and condition of seal.

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. Smear 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

MAINTENANCE

Tightening Instructions for 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 20 foot pounds 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

Periodically check tire pressure. Aircraft tires should be inflated to 42 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.

WARNING

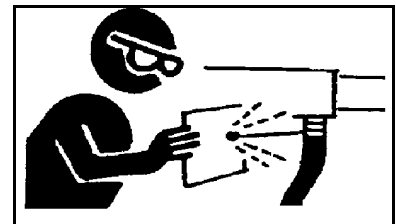
AVOID PERSONAL INJURY. DO NOT work under cutter without support blocks to keep the frame from falling.

HYDRAULICS

Periodically clean dirt and debris from around the hydraulic cylinder.

Inspect hydraulic hose, fittings and cylinder for wear or leaks. Use a piece of cardboard or wood rather than hands to search for suspected leaks. Replace if necessary.

Before applying pressure to the hydraulic system, be sure all connections are tight and that the hoses are not damaged.



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)



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

NUTS & 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.

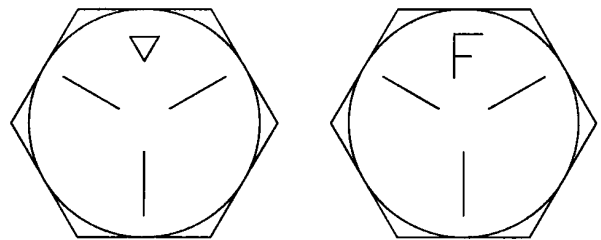
Bolt Grades and Torque

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 lock nuts with nuts and lockwashers. Use only original equipment lock nuts.

Recommended Torques in foot pounds for SAE Grade 5 bolts, based on dry assembly: **Mnt-R-0002**

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

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

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

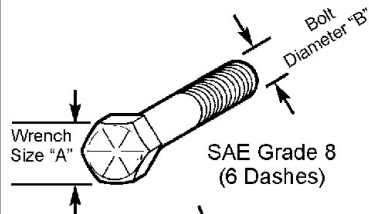
NOTE: This conversion sheet should only be used when all options to use correct hardware have been exhausted.

Mnt-SB-0026

MAINTENANCE

TORQUE SPECIFICATIONS - DRY TORQUE

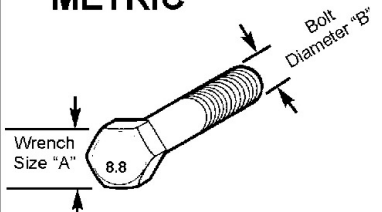
AMERICAN Bolt Head Markings



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

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



Numbers appearing on bolt heads
indicate ASTM class.

*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

SEGURIDAD

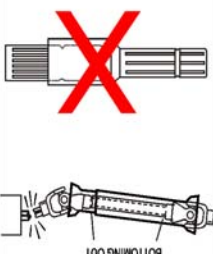
 PELIGRO		Si no puede leer inglés: antes de poner en funcionamiento este equipo, solicite que alguien le traduzca los mensajes de seguridad o vaya al sitio web para consultar los mensajes de seguridad y las etiquetas ya traducidos.	
 www.algqr.com/sms 		 www.algqr.com/smf 	
El Manual del Operador Seguridad video		Manuel de l'Opérateur	

226-491_1

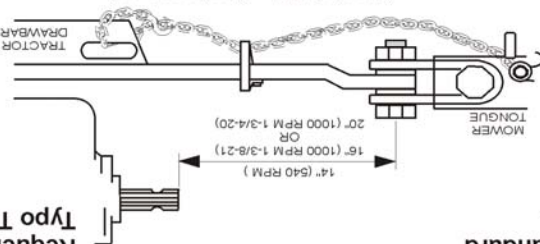
 PERIGO		Falls Sie Deutsch nicht lesen können: Lassen Sie sich, bevor Sie das Gerät in Betrieb nehmen, die Sicherheitshinweise von einer geeigneten Person in Ihre Sprache übersetzen. Oder suchen Sie auf unserer Website nach Übersetzungen von Schilderaufschriften und Sicherheitshinweisen.	
 www.algqr.com/smp 		 www.algqr.com/smg 	
Manual do Operador		Benutzerhandbuch	

226-491_2

⚠️ ADVERTENCIA Partes que no son auténticas pueden fallar catastróficamente. PARA EVITAR LESION SERIA O MUERTE: • Use SOLAMENTE las partes de reemplazo auténticas de SCHULTE • Partes que no son auténticas pueden fallar y causar condiciones peligrosas para el operador y personas presentes. Contacte a su distribuidor local o SCHULTE sobre partes de reparo a: PO BOX 70, Englefeld, Saskatchewan Canada S0K 1 N0 Customer Service: 306-287-3715 Email: info@schulte.ca www.algqr.com/spm	⚠️ WARNING Non-genuine parts can fail catastrophically. • ONLY use genuine SCHULTE replacement parts. • Non-genuine parts can fail creating hazardous conditions for operator and bystanders. Contact local dealer or SCHULTE about repair parts at: PO BOX 70, Englefeld, Saskatchewan Canada S0K 1 N0 Customer Service: 306-287-3715 Email: info@schulte.ca www.algqr.com/spm
IMPORTANTE ESTE CONSCIENTE SEA ENTRENADO ESTE ALERTO Antes de Funcionar ESTE VIVO Cortacésped	IMPORTANT BE AWARE Before Operating BE ALERT this Mower BE ALIVE
ADVERTENCIA Cáncer y Daño Reproductivo www.P65Warnings.ca.gov	WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

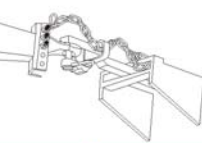
⚠ ADVERTENCIA		⚠ WARNING	
540 RPM OPERE ESTA MÁQUINA A VELOCIDAD DE PTO (TOMA DE FUERZA O BARRA GITATORIA) DEL TRACTOR DE 540 RPM. El sobre exceso de velocidad de PTO puede causar el fracaso de componente que resultará en lesión. ROTACION DE PTO DEL TRACTOR: EN SENTIDO HORARIO		540 RPM OPERATE THIS MACHINE AT TRACTOR PTO SPEED ONLY. Overspeeding PTO may cause component failure resulting in bodily injury. TRACTOR PTO ROTATION: CLOCKWISE	
226-440 2 		226-440 1 	
⚠ PELIGRO		⚠ DANGER	
PARA EVITAR LESION SERIA O MUERTE POR CONTACTO A LA LINEA DE CONDUCCION, SEPARACION DE LINEA DE CONDUCCION O EL FRACASO DEL EJE DE PTO: • 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) están dañadas. • TRABE el YUGO de collar de fijación del 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 traben 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 giration libre y suficiente traslape para evitar áreas sin cobertura. • NO UTILICE UN ADAPTOR PARA LA TOMA DE FUERZA (Barra Gitatoria).		TO AVOID SERIOUS INJURY OR DEATH FROM DRIVELINE CONTACT, DRIVELINE SEPARATION OR PTO SHAFT FAILURE: • 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	

⚠️ WARNING	
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.	
	
PARA EVITAR INCENDIOS DE EQUIPO Y CÉSPED: • QUITTE el césped o escombros de embrague deslizando, caja de engranajes, líneas de conducción y cubiertas. • NO PERMITA QUE LAS LAMINAS CONTACTEN piedras, metal o objetos sólidos.	
226-438 3	

⚠️ IMPORTANTE	
Required for Standard Pull Type Units.  14" (540 RPM) OR 16" (1000 RPM 1-3/8-21) 20" (1000 RPM 1-3/4-20) TRACTOR DRAWBAR Attach Safety Chain securely. Coloque la Cadena de Seguridad seguramente. 226-438 4	

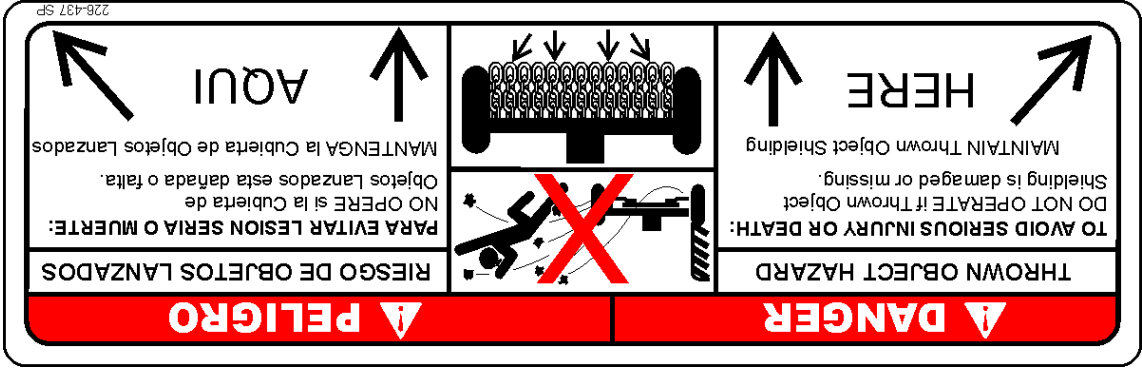
SEGURIDAD

⚠️ ADVERTENCIA PARA EVITAR LESION SERIA O MUERTE 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 INVISIBLES. 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 impermeables. • 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 SERIOUS INJURY OR DEATH 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 and impermeable 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.	

⚠️ ADVERTENCIA PARA EVITAR LESION SERIA O MUERTE AL REMOLCAR EL EQUIPO: • NO REMOLQUE con camion o cualquier otro vehículo. • 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, 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. 226-438-2	  
⚠️ WARNING TO AVOID SERIOUS INJURY AND DEATH 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, 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.	

SEGURIDAD

SEGURIDAD

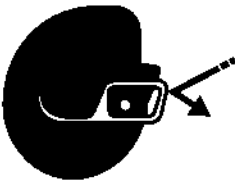


FX-107 07/19

Sección de Seguridad 1-23

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SEGURIDAD





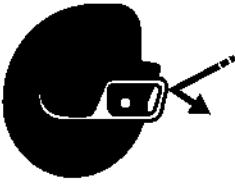


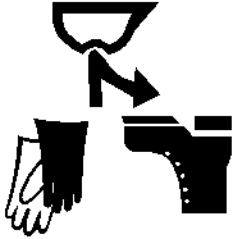


PELIGRO

PARA EVITAR LESION SERIA O MUERTE:

- 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 protección cuando esta operando el equipo.









DANGER

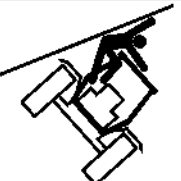
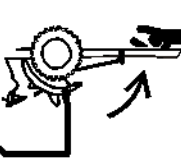
TO AVOID SERIOUS INJURY OR DEATH:

- 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.
- WEAR hard hat, safety shoes and gloves for protection when operating equipment.

FX-107 07/19

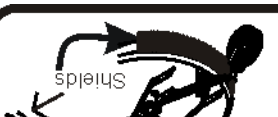
Sección de Seguridad 1-22

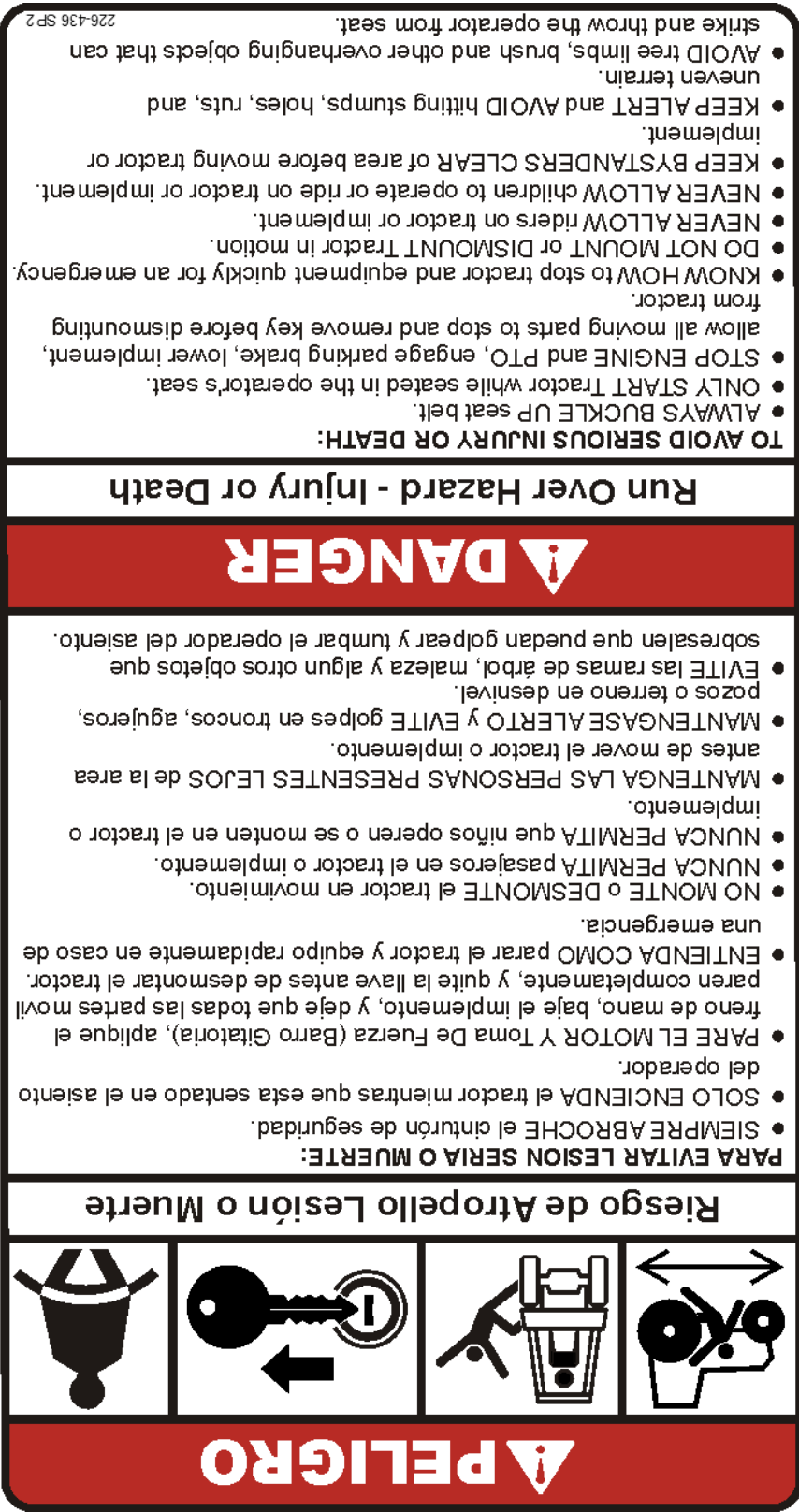
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PELIGRO			DANGER		
Riesgo de Aplastamiento - Lesion o Muerte			Crushing Hazard - Injury or Death		
PARA EVITAR LESION SERIA O MUERTE:			TO AVOID SERIOUS INJURY OR DEATH:		
• USE un tractor equipado con Estructura Protectora Contra Vuelcos ("ROPS") 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.			• 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.		

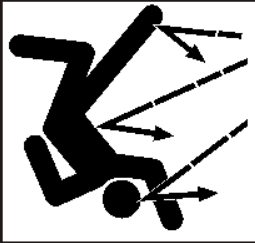
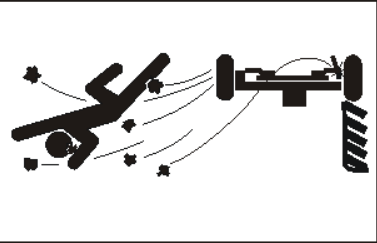
226-436 SP 4

SEGURIDAD

																	
PELIGRO		RIESGO DE ENREDAMIENTO		PARA EVITAR LESION SERIA O MUERTE:		● NO opere sin la cubierta protectora en su lugar y en buen estado. Toma De Fuerza (Barra Gritatoria) 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 moviendose 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.		DANGER		ENTANGLEMENT HAZARD		TO AVOID SERIOUS INJURY OR DEATH:		● 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.			



**PELIGRO**



RIESGO DE OBJETOS LANZADOS

Cortacésped puede lanzar objetos hasta 300 pies. PARA EVITAR LESION SERIA O MUERTE a operadores y personas presentes:

- Pare de segar si personas o tráfico se acercan entre 300 pies del área de segar.
- 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.
- REPARA O REEMPLAZA 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

Mower can throw objects up to 300 feet. TO AVOID SERIOUS INJURY OR DEATH 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.

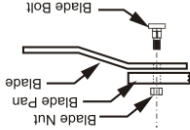
226-436 SP 1

ADVERTENCIA

WARNING

PARA EVITAR LESION SERIA O MUERTE 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.



- TO AVOID SERIOUS INJURY OR DEATH FROM BLADE ATTACHMENT FAILURE:
- Torque blade bolt to 600 ft lbs.
 - ALWAYS replace blades in pairs.
 - ALWAYS replace blades with new bolts and nuts.

BLADE ROTATION

ROTACIÓN DE CUCHILLAS

226-164 SP

WARNING

PINCH POINTS

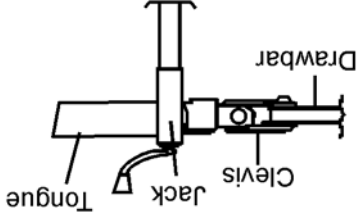


226-335 SP

ADVERTENCIA

PUNTO DE PELIZCO

WARNING



Rated Vertical: 3,200 lbs
Loads Side: 2,000 lbs

TO AVOID SERIOUS INJURY:

- Fully engage jack retaining pin.
- Lower mower to ground so jack is positioned vertically.
- DO NOT exceed rated loads.

ADVERTENCIA

PARA EVITAR LESION SERIA:

- Aplique completamente el perno de retencion al gato.
- Baje la cortador al piso para que el gato este posicionado verticalmente.
- NO exceda las cargas calculadas.

226-431 SP

INFORMACIÓN DE PARTES

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 motriz, 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)

CONTACTE A SU DISTRIBUIDOR SCHULTE

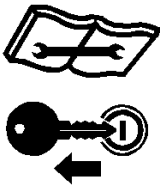
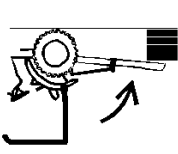
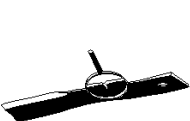
Manuales de Partes y Operador



www.aligqr.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

RIESGOS CON EL MANTENIMIENTO DEL IMPLEMENTO Continuada

				
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 daños o fisuras

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:

- **INSPECCIONE** 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.

INSPECCIÓN 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.

INSPECCIÓN DE PROTECTORES DE SEGURIDAD, GUARDAS Y DISPOSITIVOS DE SEGURIDAD:

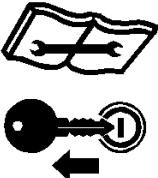
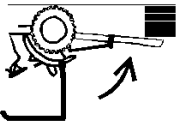
- **MANTENGA** en su lugar y en buen estado todos los deflectores, protectores de cadena, protectores de acero, cubiertas de caja de engranajes, cubiertas integrales de PTO, bandas, faldones laterales y zapatas antideslizantes.

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



Operar, dar servicio y mantener este equipo puede exponerlo a productos químicos como gasolina, combustible diesel, lubricantes, productos derivados del petróleo, gases de escape de motores, monóxido de carbono y flúatos, que el Estado de California considera que causan cáncer y defectos de nacimiento y otros daños reproductivos. Para minimizar la exposición, evite respirar el escape, no haga funcionar el motor en ralentí excepto cuando sea necesario, haga el mantenimiento de su vehículo en un área bien ventilada y use guantes o lávese las manos frecuentemente cuando realice el mantenimiento de su vehículo. Los postes de la batería, terminales y accesorios relacionados contienen plomo y compuestos de plomo, productos químicos que en el estado de California son conocidos por causar cáncer, defectos de nacimiento y otros daños reproductivos. Para obtener más información, vaya a www.P65Warnings.ca.gov. Este sitio web, operado por la Oficina de Evaluación de Peligros para la Salud Ambiental de California, proporciona información sobre estos químicos y cómo las personas pueden estar expuestas a ellos. PN HM02 SP

RIESGOS CON EL MANTENIMIENTO DEL IMPLEMENTO

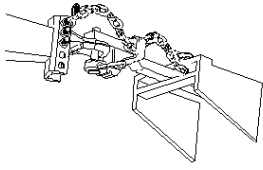
				
Inspeccione periódicamente todas las partes móviles, antes de realizar tareas de mantenimiento.	Apague el motor. Quite la llave antes de realizar tareas de mantenimiento.	Bloquee el implemento antes de repararlo. Utilice bloques grandes sobre suelo blando o húmedo.	Coloque las trabas de transporte cilíndricas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

ADVERTENCIA
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**
 - BLOQUEE 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.
 - EMPÚJE Y JALE** la palanca del Cilindro Hidráulico Remoto para liberar la presión hidráulica.
 - DESCONECTE** la línea de conducción del **IMPLEMENTO** del **EJE DE PTO** del tractor.
 - USE GAFAS DE SEGURIDAD 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 GAFAS DE SEGURIDAD Y GAFAS DE SEGURIDAD** 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.
 - ASEGÚRESE** de estar bien apoyado sobre superficies sólidas planas al subirse al implemento para realizar tareas.
 - SIGA** las instrucciones del fabricante sobre cómo manipular los lubricantes, solventes, limpiadores y otros agentes químicos.
 - 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-A-SP

SEGURIDAD

RIESGOS DE TRANSPORTE

	Use señales de SMV (vehículo de movimiento lento) y balizas
	Peligro de pérdida de control
	Peligro de velocidad excesiva por pérdida de control
	Use la cadena de remolque de seguridad – Tractor a implemento
	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 y equipado en función del equipo de remolque.
- **SIGA** todas las regulaciones de tránsito locales.
- **REQUISITOS DEL TRACTOR PARA REMOLCAR O TRANSPORTAR IMPLEMENTOS:**
- **SÓLO 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.

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

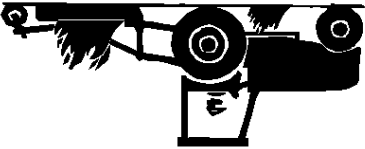
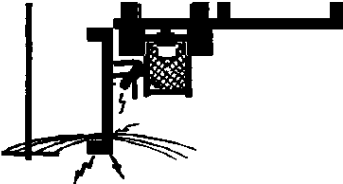
PRUEBAS DE FRENADO:

- **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 vaivén 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*

RIESGOS ELÉCTRICOS Y DE FUEGO

		
No opere cerca de fuego. Mantenga limpia la plataforma de la cortadora	Riesgo de choque y explosión Contacto de paletas con líneas de servicios o gas	Contacto de ala con cables eléctricos elevados

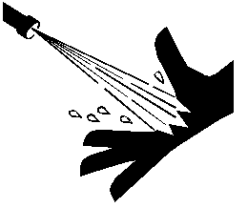
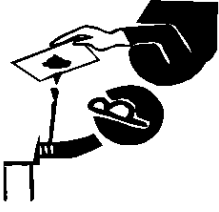
PARA EVITAR LESIONES GRAVES O LA MUERTE POR CONTACTO ELÉCTRICO AL TRABAJAR CERCA DE CABLES ELÉCTRICOS, LÍNEAS DE GAS Y DE SERVICIOS:

⚠ PELIGRO

- **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 EMBRAQUES 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*

RIESGO DE FILTRACION DE ACEITE HIDRAULICO DE ALTA PRESION

		
Penetración de aceite de alta presión en la piel	Erosión de la piel por el aceite de alta presión	Usar cartón para detectar filtraciones de aceite

▲ PELIGRO
PARA EVITAR LESIONES GRAVES O LA MUERTE POR PENETRACIÓN DE FILTRACIONES DE ACEITE HIDRAULICO DE ALTA PRESIÓN:

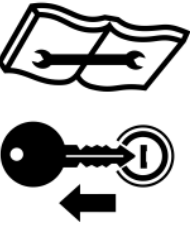
- **MANTENGA** todas las mangueras hidráulicas, líneas y conexiones en **BUEN ESTADO** y **AJUSTADAS** antes de aplicar presión al sistema.
- **LIBERE LA PRESIÓN HIDRAULICA** antes de desconectar las líneas o trabajar en el sistema.
- **QUIT**E y reemplace la manguera si sospecha que tiene filtraciones. Solicite al distribuidor que verifique si hay filtraciones.

LAS FILTRACIONES DE LÍQUIDO DE ALTA PRESIÓN PUEDEN NO SER VISIBLES.
AL VERIFICAR FILTRACIONES HIDRAULICAS Y TRABAJAR CERCA DE LOS SISTEMAS HIDRAULICOS:

- **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*

SEGURIDAD

RIESGO DEL CONTACTO A LAS CUCHILLAS DE CORTADORA

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

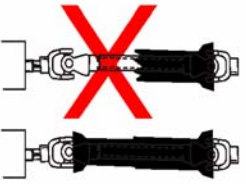
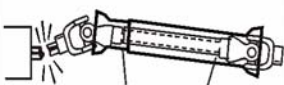
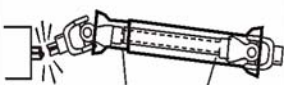
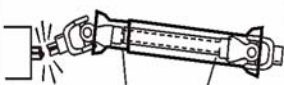
MANÉNGASE LEJOS DE LAS CUCHILLAS GIRATORIAS PARA EVITAR LESIONES GRAVES O LA MUERTE POR CONTACTO CON LA CUCHILLA:



- **MANÉNGASE 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 estaciónamiento, ponga el freno de estacionamiento y retire la llave antes de abandonar el asiento del operador. Despejar 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

RIESGO DE ENREDO POR EL PTO

	Peligro de enredo No se acerque o toque ningún eje de transmisión de PTO giratorio		PTO (Barra Gítoria)
	No opere la máquina si las cubiertas de PTO están dañadas o faltantes		Bottoming Out
	Asegúrese de que los ejes de PTO sean del largo adecuado		Bottoming Out



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 REPÁRELOS** 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.

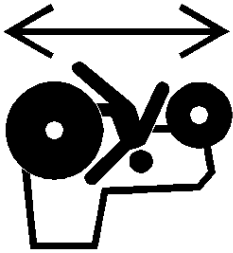
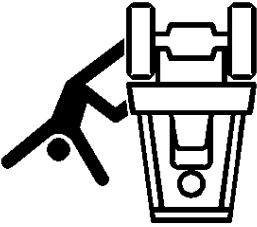
COMUNIQUESE CON EL DISTRIBUIDOR si la línea de conducción del implemento no coincide con el eje de PTO del tractor:

- **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 SP*

SEGURIDAD

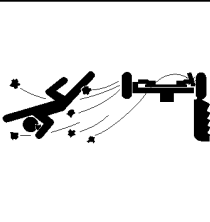
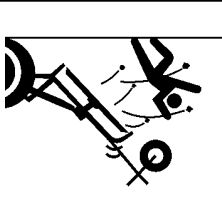
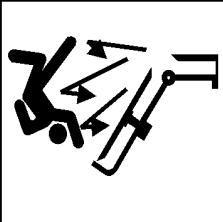
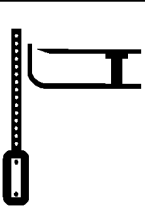
RIESGO DE ATROPELLO

		
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 ABROCHESE 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*

RIESGO DE OBJETOS LANZADOS (Continuado)

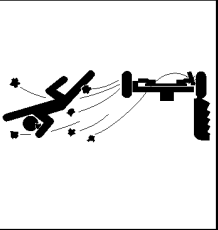
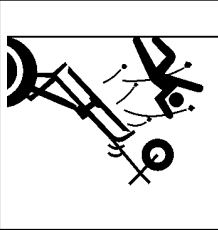
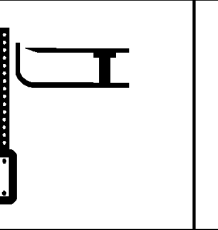
	Peligro de objetos lanzados por la cortadora
	Objetos lanzados desde cortadora elevada
	Objetos lanzados desde cortadora elevada
	Inspeccione el área. Quite los objetos extraños
	No permita que las cuchillas entren en contacto con objetos sólidos

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** las secciones de la cortadora o la ala cercana y paralela al suelo sin exponer las cuchillas
- **AJUSTE LA ALTURA** de corte para **EVITAR EL CONTACTO DE LAS CUCHILLAS** con objetos sólidos, como alambres, piedras, postes, cordones, guardarrailles 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, guardarrailles 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 FALLAR** con el impacto y los objetos pueden ser arrojados a gran velocidad.
- 2. **INSPECCIONE** 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 las alas 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. **INSPECCIONE** la cortadora para detectar la fuente de la vibración
- 3. **REEMPLACE** toda parte dañada o las **CUCHILLAS** dobladas o dañadas. *PN T001-X-SP*

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.
 - Las partes de la cortadora o la ala estén ajustadas cerca y paralelas al suelo, sin exponer las cuchillas.
 - 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.

INSPECCIÓN DEL ÁREA PARA DETECTAR HIERBA ALTA Y MALEZAS:

- **INSPECCIONE Y QUITÉ** 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

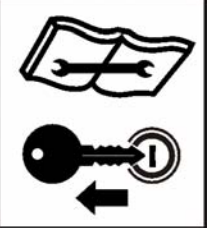
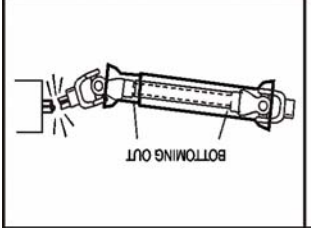
- **UTILICE PROTECTORES DE CADENA DOBLES** para autopistas, derecho de paso, parques o cortes en cinturón verde donde pueda haber viviendas, vehículos o ganado dentro de los 100 metros (300 pies) de la cortadora.
- Ninguna protección ofrece una eficacia del 100% en la prevención de objetos arrojados. Para reducir la posibilidad de que se produzcan lesiones:

1. **MANTENGA LOS PROTECTORES DE LA CORTADORA**, los faldones laterales, la 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 alambres, piedras, postes, cordones, guardarrailles o el suelo. **PN T001 SP**

SEGURIDAD

SEGURIDAD

SEGURIDAD DE CONECTAR O DESCONECTAR IMPLEMENTO

				
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PARA EVITAR LESIONES GRAVES O LA MUERTE POR APLASTAMIENTO POR EL TRACTOR O IMPLEMENTO:



- **AL DAR MARCHA ATRÁS** 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.

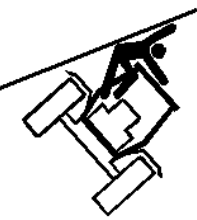
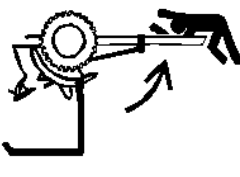
ANTES DE QUITAR LAS TRABAS DE RETENCIÓN DE LAS ALAS:

- **CONECTE** las mangueras al tractor
- **LENE** 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

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 ABROCHÉSE** 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 LAS ALAS:

- Eleve o descienda las alas **SÓLO CUANDO ESTÉ SENTADO** en el asiento del tractor, con el cinturón de seguridad ajustado.
- **PARA EVITAR** el vuelco del implemento:
- **MANTENGA A LOS TRANSEÚNTES 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.

Los equipos **ELEVADOS** se pueden caer por fallas mecánicas o hidráulicas o por un movimiento inesperado de la palanca de control.

ADVERTENCIA
PARA EVITAR LA CAÍDA DEL EQUIPO al trabajar cerca o debajo de las alas, los componentes e 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 TRANSEÚNTES 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.

PARA EVITAR LA CAÍDA O EL APLASTAMIENTO DE NIÑOS POR EL EQUIPO:



- **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 falla al gato y una lesión al operador.

ANTES DE QUITAR LAS TRABAS DE RETENCIÓN DE LAS ALAS:

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

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*

SEGURIDAD

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.

Indica una situación peligrosa inminente que, de no ser evitada, **OCASIONARÁ** la

MUERTE O UNA LESIÓN MUY GRAVE.

Indica una situación peligrosa inminente que, de no ser evitada, **PODRÍA OCASIONAR** la

MUERTE O UNA LESIÓN MUY GRAVE.

Indica una situación peligrosa inminente que, de no ser evitada, **PODRÍA OCASIONAR**

UNA LESIÓN MENOR.

Indica 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
 EJEMPLO: Evitar lesiones al estar en contacto con líneas eléctricas aéreas	 EJEMPLO: Apague siempre el motor y retire la llave antes de trabajar en el equipo.	 EJEMPLO: No FUMAR

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. PN6501 SP

SECCIÓN DE SEGURIDAD

Sección de Seguridad 1-1

Instrucciones de operaciones de la entrega 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 enredo u objetos arrojados.

• **MÁQUINAS HIDRÁULICAS:** He explicado la necesidad de usar aceite hidráulico limpio, cambiar los filtros según las instrucciones, detener filtraciones, prevenir daños por operar con aceite demasiado 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 SEGÚN 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

- ☐ Longitud de barra de enganche (verificar y fijar)
- ☐ Pivote y conexiones de bastidor en A
- ☐ Barras de control (ajustadas iguales)
- ☐ Altura de eje (ajustar)
- ☐ Altura de corte (ajustar)
- ☐ Verificación de pre-operación de kit de montaje
- ☐ Líneas de conducción C.V. (verificar radio de giro máx.)
- ☐ Enganche de tracción (ajuste de altura)
- ☐ Piezas metálicas de montaje bien ajustadas
- ☐ Protectores (operación e instalación)
- ☐ Embrague de línea de conducción (limitador de ajuste)
- ☐ (ajustar y poner en marcha)
- ☐ Autoadhesivos de seguridad (colocados)
- ☐ Manual del Operador (entregado)
- ☐ Protector de TDF del tractor (instalado)
- ☐ Emblema S.M.V. (instalado de ser necesario)
- ☐ Gato con lengüeta (instalación y operación)
- ☐ Cadena de remolque de seguridad (instalada)
- ☐ Manual de Seguridad de Línea de Conducción ADMA (entregado)
- ☐ Manual de Seguridad de Cortadora AEM (entregado en porta manual)
- ☐ Se mostró el Video de Seguridad de Cortadora AEM al comprador

LUBRICACIÓN E HIDRÁULICA

- ☐ Caja de engranajes (niveles de aceite)
- ☐ Nivel de aceite hidráulico (tanque externo)
- ☐ Nivel de aceite hidráulico del tractor
- ☐ Mangueras hidráulicas (no retorcidas y ajustadas)
- ☐ Propulsor de bomba frontal (conjunto ajustado y eje bien alineado)
- ☐ Pernos de husillo y motor bien ajustados
- ☐ Nivel de aceite del husillo
- ☐ Pernos de porta cuchillas bien ajustados/pasadores de retención colocados
- ☐ Nivel y altura de corte de la cortadora ajustados
- ☐ Cojinetes del eje de corte lubricados
- ☐ Todas las piezas metálicas bien ajustadas
- ☐ Presión de aire y neumáticos/tuercas de rueda (bien ajustadas)
- ☐ Cojinetes de rueda (verificar, engrasar y hacer carga previa)
- ☐ **ACCESORIOS E INSTALACIÓN**
- ☐ Deflectores frontales y traseros
- ☐ Accesorios de trituración
- ☐ Sentido de giro de las hojas correcto
- ☐ Vigas y brazos de eje
- ☐ Lengüeta y barras de control (instaladas y ajustadas)
- ☐ 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

☐ enviar por fax a:

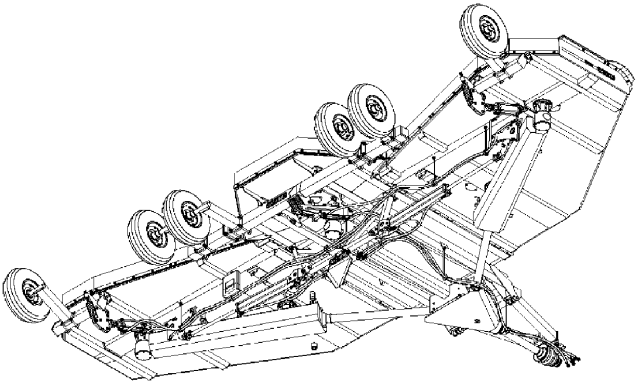
(830) 372-9529

☐ enviar por correo electrónico a:

AEMVideo@alamo-group.com



Entrenamiento de Seguridad
Hace la Diferencia



Video de Seguridad

➤ **Sea Seguro**

➤ **Sea Alerto**

➤ **Sea Vivo**

➤ **Sea Entrenado**

antes de funcionar
el cortacésped

www.aligqr.com/svs



A fin de reducir la tasa de accidentes y mejorar la operación segura de las cortadoras, Alamo Group Ag Division 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, mire 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 Alamo Group Ag.

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 de el 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 prácticas de operación segura y el mantenimiento de el equipo con el cual el empleado este, o estará implicado y de cualquier otras prácticas dictados por el ambiente laboral.

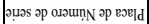
Este Manual del Operador es una parte esencial de la operación segura de esta máquina y se debe mantener con la unidad siempre. El implemento incluye un porta manual donde se puede guardar el manual de manera adecuada. Si el manual se extraía o se daña, puede solicitar otra copia sin cargo a un distribuidor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

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.

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 sujetado al tractor.

riesgo para la seguridad. Use partes genuinas *Schulte* para ahorrar dinero y maximizar la seguridad.

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Distribuidor		Teléfono		Modelo:	



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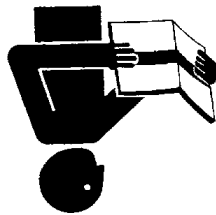
FX-107

CORTADORA GIRATORIA

Publicado en 07/19

Part No. C107-010C

MANUAL DE OPERADOR



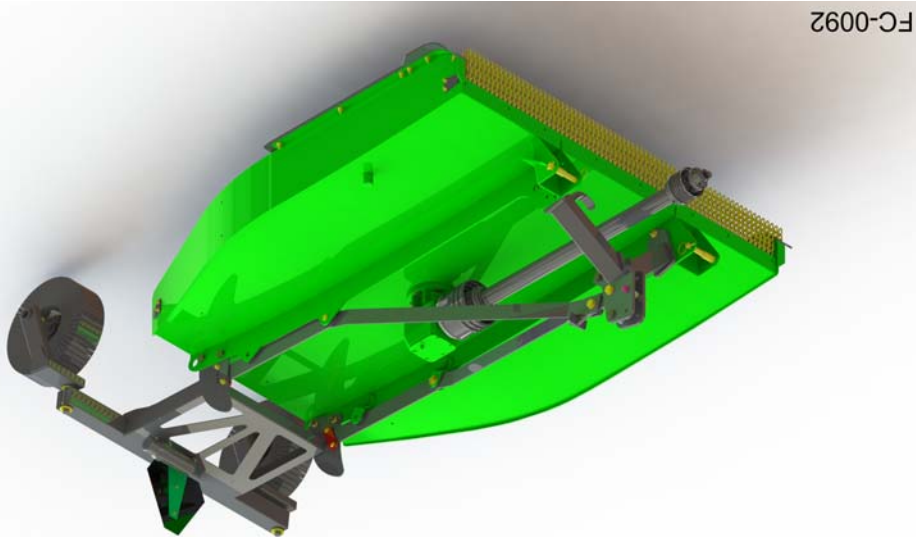
Este Manual del Operador es una parte esencial de la operación segura de esta máquina y se debe mantener con la unidad siempre. LEA, ENTIENDA, y SIGA las Instrucciones de Seguridad y Operación contenidas en este manual antes de operar el equipo. C01-Cover SP_LS

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



Video de Seguridad

www.algqr.com/svs



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