

TRAILKAT 10/15

FLEX-WING MECHANICAL LEVEL LIFT ROTARY CUTTER/SHREDDER

Published 08/12

Part No. 00787918C

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. <u>READ</u>, <u>UNDERSTAND</u>, and <u>FOLLOW</u> the Safety and Operation Instructions contained in this manual before operating the equipment. *C01-Cover_T*

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



www.algqr.com/tve



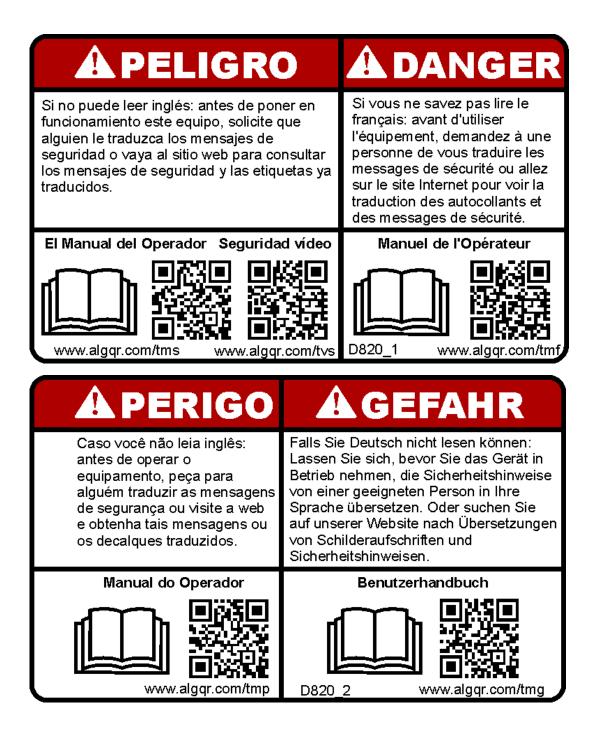
Tiger Corporation 3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900 www.tiger-mowers.com



www.algqr.com/twe

ATENCIÓN! LEA EL INSTRUCTIVO SI NO LOE Inglés, Pida Ayuda a Alguien Que Se Lo Lea Para Que le Traduzca Las Medidas de Seguridad





Safety Video



www.algqr.com/tve

Operator's & Parts Manuals

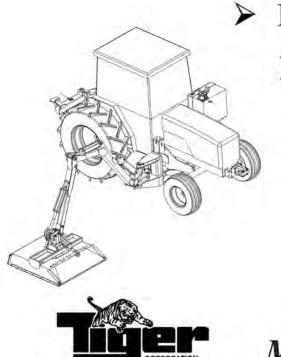


www.algqr.com/tpm

General Safety



www.algqr.com/tme



Safety Video

BE SAFE!

BE ALERT!



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 \triangleright **BE ALIVE!**

BE TRAINED before operating the Mower!

Safety Training Makes the Difference

In order to reduce accidents and enhance the safe operation of mowers, *Tiger Corporation,* 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 <u>Every Mower Operator</u> 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 *Tiger* 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 *Tiger Corporation*.

If you would like a VHS video tape of the video, please email 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.

	TIGER CORPORATION will provide one (1) AEM Mower Safety Practices Video
Please Send Me	: VHS Format – AEM/FEMA Mower Operator Safety Video
	DVD Format – AEM/FEMA Mower Operator Safety Video
	Mower Operator's Manual
	AEM Mower Operator's Safety Manual
Requester Name	Phone:
Requester Addre	ess:
	City:
	State:
	Zip Code:
Mower Model:	Serial Number:
Date Purchased:	Dealer Salesperson:
Dealership Nam	e: Dealership Location:
Mail to:	
	AEM Video Services
	1502 E. Walnut Street
	Seguin, TX 78155
Or Fax to:	
	(830) 372-9529
Or Email to:	
	AEMVideo@alamo-group.com

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 Tiger dealer or by down loading the manual from the Tiger website www.tiger-mowers.com

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 Tiger 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. Tiger 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 Tiger 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 Tiger mower parts for economy and safety.

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

Dealer	Telephone	Model Number	
Owner	Purchase Date:	Serial Number	



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 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
- **D** 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)
- D Mower Wing (Check For Proper Raising Operation)
- C.V. Drivelines (Check Max Turn Radius)
- D 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)
- **D** Tongue Jack (Installation and Operation)
- □ Safety Tow Chain (Installed)
- ADMA Driveline Safety Manual Supplied
- AEM Mower Safety Manual (Supplied in Canister)
- AEM Mower Safety Video has been shown to Purchaser

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SAFETY SECTION

Safety Section 1-1

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 <u>YOU</u>. Only <u>YOU</u> can prevent serious injury or death from unsafe practices.

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

AWARNING

Important

G 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.

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.



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

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Safety Section 1-2

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

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

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Safety Section 1-3

CRUSHING HAZARDS Crushing injury wing Crushing injury Crushing injury Lock ROPS in Always wear implement falling falling from roll over seatbelt up position TO AVOID SERIOUS INJURY OR DEATH FROM FALLING OFF TRACTOR, EQUIPMENT RUN OVER, A DANGER **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 WINGS: 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. KEEP sufficient clearance around implement and wings TO AVOID contacting buildings or overhead power lines.

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

AWARN ING

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

WHEN PARKING Implement and Tractor:

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

TO AVOID CHILDREN FALLING OFF OR BEING CRUSHED BY EQUIPMENT:

AWARNING

• NEVER ALLOW children to play on or around Tractor or Implement.

WHEN UNHITCHING IMPLEMENT:

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

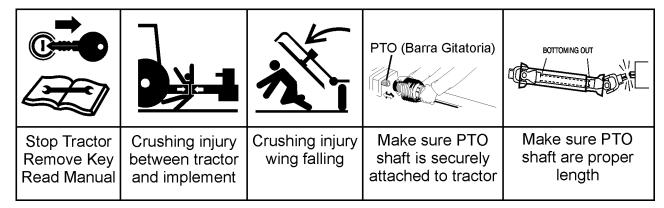
BEFORE REMOVING Wing Retaining Lock:

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

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Safety Section 1-4

CONNECTING OR DISCONNECTING IMPLEMENT SAFETY



🛦 DANG ER

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. (Refer to Instructions in Operation Section)

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.(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.

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

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

BEFORE REMOVING WING RETAINING LOCKS:

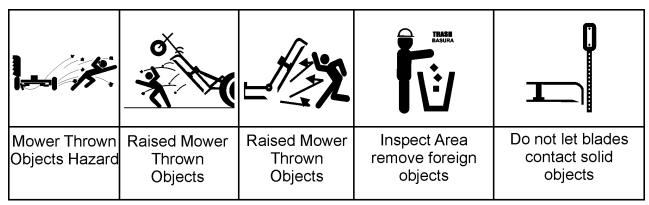
- ATTACH hoses to tractor.
- FILL Wing Cylinders with oil. (Refer to Instructions in Operation Section)
- **KEEP** bystanders clear of area before operating wings.
- LOWER WINGS slowly and carefully.

DO NOT connect the Mower to a tractor with the PTO directly connected to the Tractor transmission. PN CD01

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Safety Section 1-5

THROWN OBJECTS HAZARDS



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.

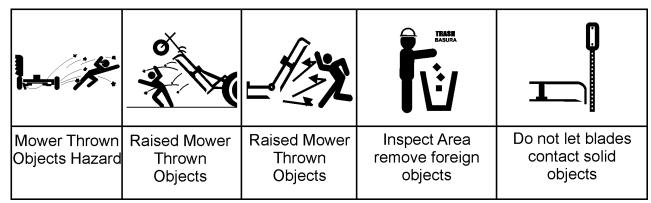
RIGHT OF WAY (Highway) MOWING

- 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 TO01*

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Safety Section 1-6

THROWN OBJECTS HAZARD (CONTINUED)



MOWER OPERATION:

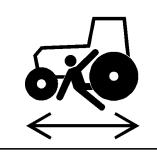
- DO NOT exceed mower's rated Cutting Capacity or cut non-vegetative material.
- USE ENCLOSED TRACTOR CABS when two or more mowers are operating in mowing area.
- Do Not mow in areas where bees or insects may attack unless you **WEAR PROTECTIVE CLOTHING** or use enclosed tractor cab.
- **ADJUST** mower 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, guard rails 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:*
 - 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 TOO1-X

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Safety Section 1-7

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

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Safety Section 1-8

PTO ENTANGLEMENT HAZARDS

	PTO (Barra Gitatoria)		BOTTOMING OUT
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

🛦 DANGER

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 PEO1

TK15/10 08/12

Safety Section 1-9

MOWER BLADE CONTACT HAZARDS



Do not put fingers underneath mower

 ingers
 Do not put foot underneath
 Stop Tractor Remove Key

 mower
 Read Manual

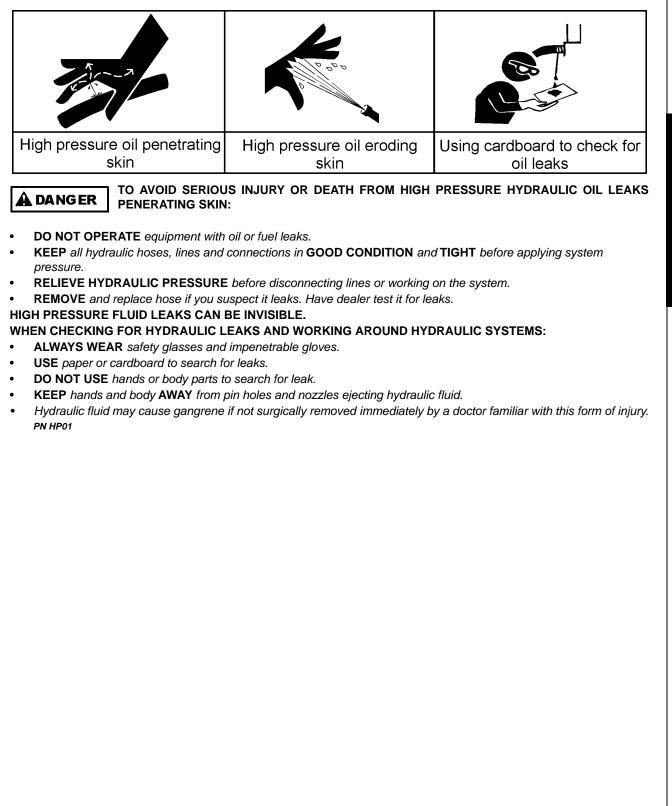
SAFETY

A DANGER 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. PN MB01

Safety Section 1-10

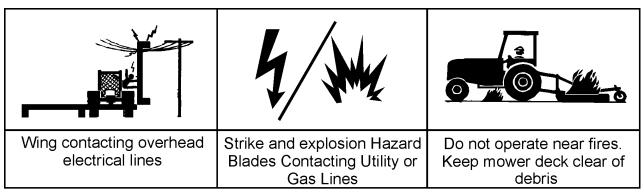
HIGH PRESSURE OIL LEAK HAZARD



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Safety Section 1-11

ELECTRICAL & FIRE HAZARDS



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

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

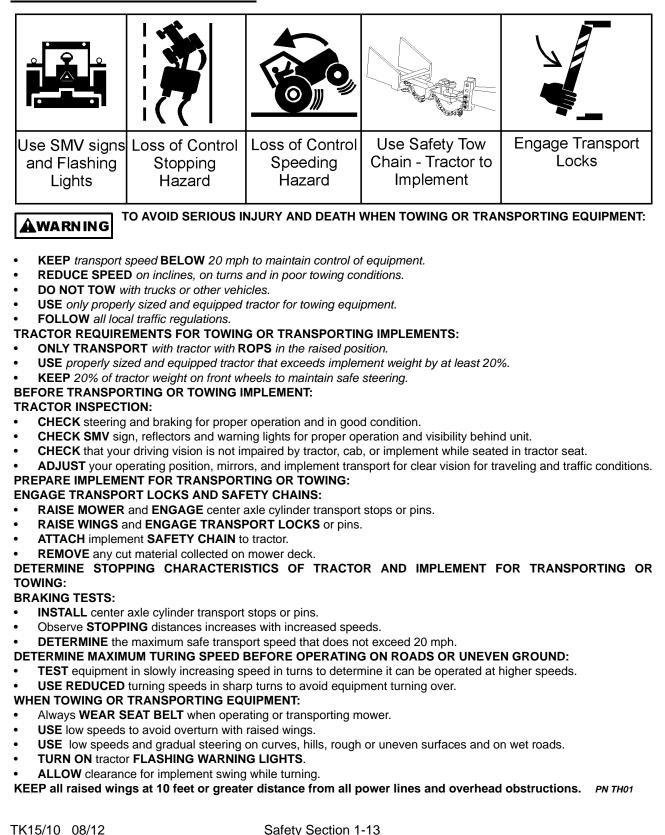
- EQUIP Tractor with a FIRE EXTINGUISHER
- DO NOT OPERATE mower on a tractor equipped with under frame exhaust
- DO NOT SMOKE or have open flame near Mower or Tractor
- DO NOT DRIVE into burning debris or freshly burnt area
- AVOID FIRE IGNITION by not allowing mower blade to contact solid objects like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

SAFETY

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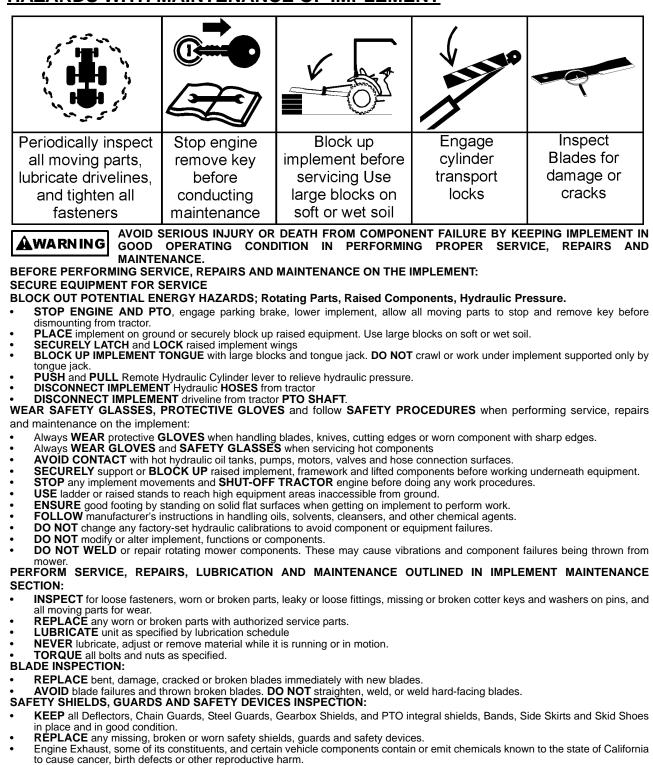
Safety Section 1-12

TRANSPORTING HAZARDS



SAFETY

HAZARDS WITH MAINTENANCE OF IMPLEMENT



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. PN HM01

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Safety Section 1-14

SAFETY

PARTS INFORMATION

PARTS INFORMATION

Tiger 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 Tiger specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce mower performance, void mower warranties, and present a safety hazard. Use genuine Tiger mower parts for economy and safety. (SPTM-1)

SEE YOUR TIGER DEALER

Operator's & Parts Manuals



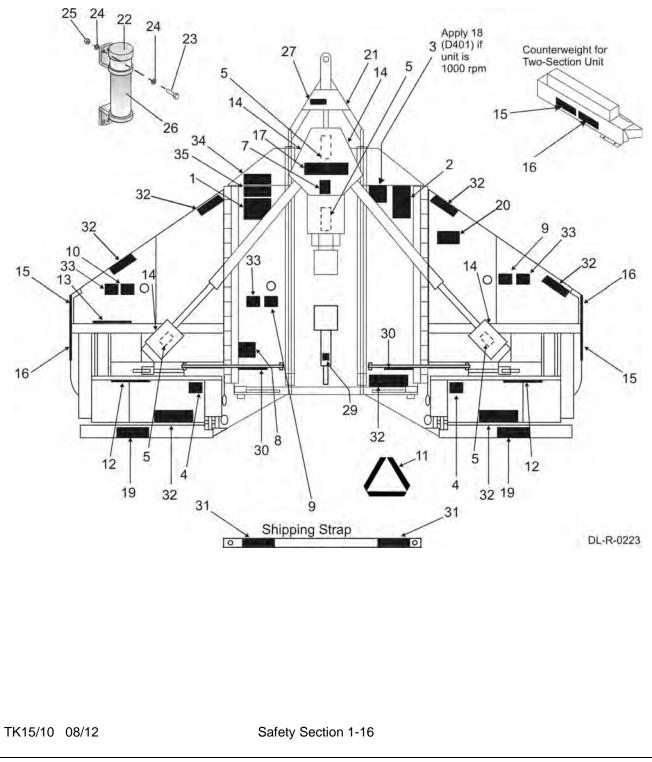
www.algqr.com/tpm

TK15/10 08/12

Safety Section 1-15

Decal Location

NOTE: Tiger supplies safety decals on this product to promote safe operation. Damage to the decals may occur while in shipping, use, or reconditioning. Tiger 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 Tiger dealer to order replacement decals.

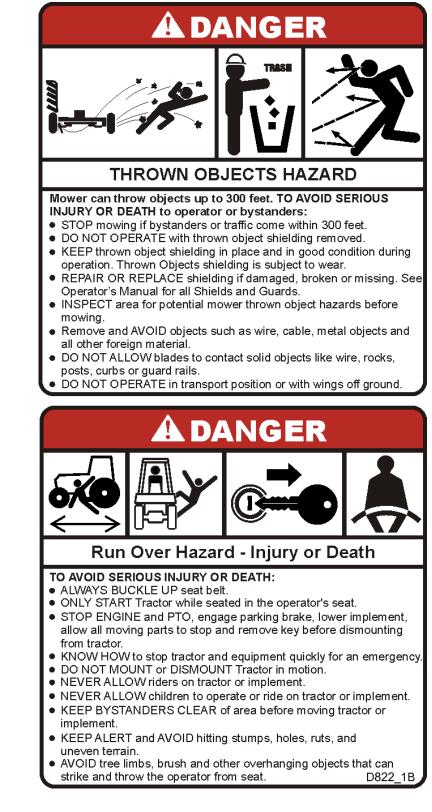


SAFETY ITEM PART NO. QTY QTY TYPE DESCRIPTION 180 120 D822 DECAL Multi Hazard 1. 1 1 2. D390 1 1 DECAL Pull Type Unit Hazards 3. D388 1 1 DECAL **Driveline Hazards** 2 4. 00753840 1 DANGER Wing Lowering Safety 5. 4 3 00756004 DANGER Shield Missing 6. 00756005 ((2))((2))DANGER **Rotating Driveline** 7. 00786507 6 - Year Gearbox 1 1 WARRANTY 0 8. 999403 1 DANGER **Overturn of Two-Section Flex** 9. 2 2 D137 INSTRUCT **CCW Blade Rotation** 10. 1 0 D138 INSTRUCT **CW Blade Rotation** 11. 03200347 1 1 REFLECT SMV 2 **Red Reflector** 12. 1458392 1 REFLECT 0 13. 1458393 1 REFLECT Amber Reflector 14. LOGO Tiger Logo 15. LOGO Tiger Logo 16. NAME TK10 - Large NAME TK15 - Large 17. TK10 - Small NAME NAME TK15 - Small 18. 1 1 1000 RPM D401 WARNING 19. LOGO Tiger Name Logo 20. D819 1 1 **IMPORTANT Genuine Tiger Parts** 21. 1 1 SERIAL PLT Serial Number Plate nfs 22. 1 1 INSTRUCT Canister, Operators Manual 00776031 23. 10058000 3 3 Bolt _____ 6 6 24. 00024100 Flatwasher -----25. 3 3 02959924 Locknut ------26. 00786399C 1 1 **Operator's Manual (Inside Canister)** _____ 27. D482 1 1 WARNING Jack Positioning 6* 6* 28. 1006348 WARNING Tire Explosion Hazard 29. 1 1 IMPORTANT Transport Latch D520 30. 2 2 Crushing Hazard - Falling D539 DANGER 2 DANGER 31. D519 1 **Crushing Hazard - Lock** 7 4 32. D614 DANGER Thrown Object Shield Missing 33. 3 2 **Torque Blade Bolt 600lbs** D534 WARNING 1 1 Lube Chart 34. D582 INSTRUCT 35. D820 1 1 DANGER Multi Language (()) Furnished by Driveline Supplier * Furnished by Wheel Assembly Supplier () For Two-Section Unit Only. Safety Decal Sheets Flex Wing D420 Single Wing D422 TK15/10 08/12 Safety Section 1-17

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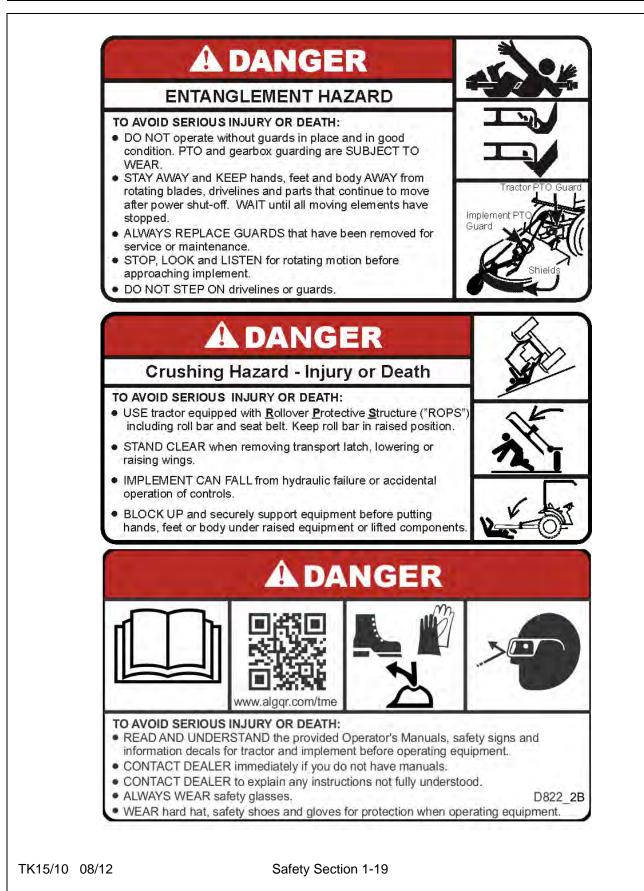
SAFETY

Decal Description

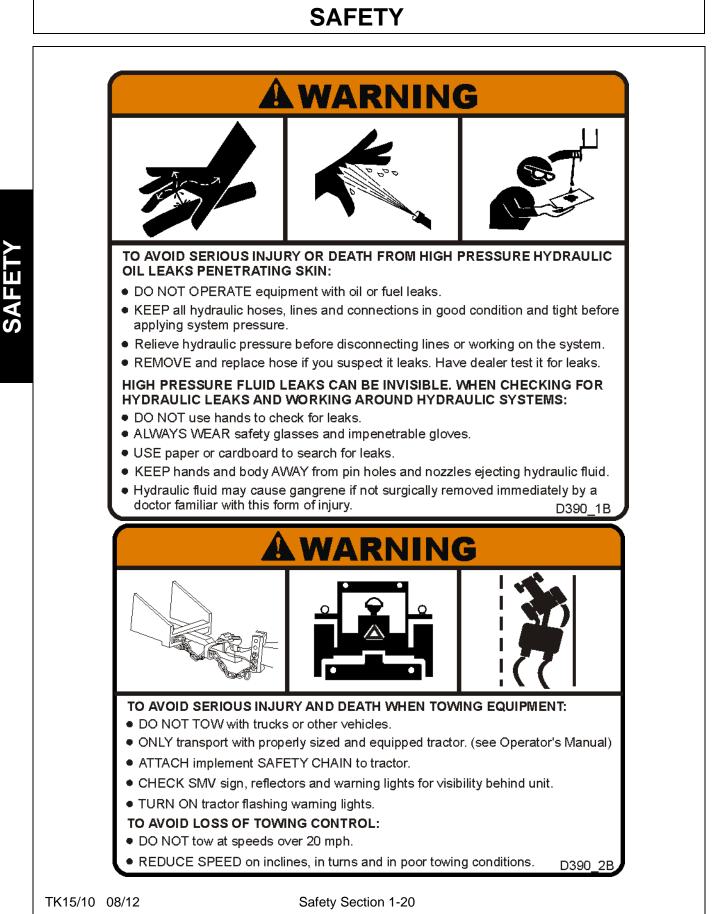


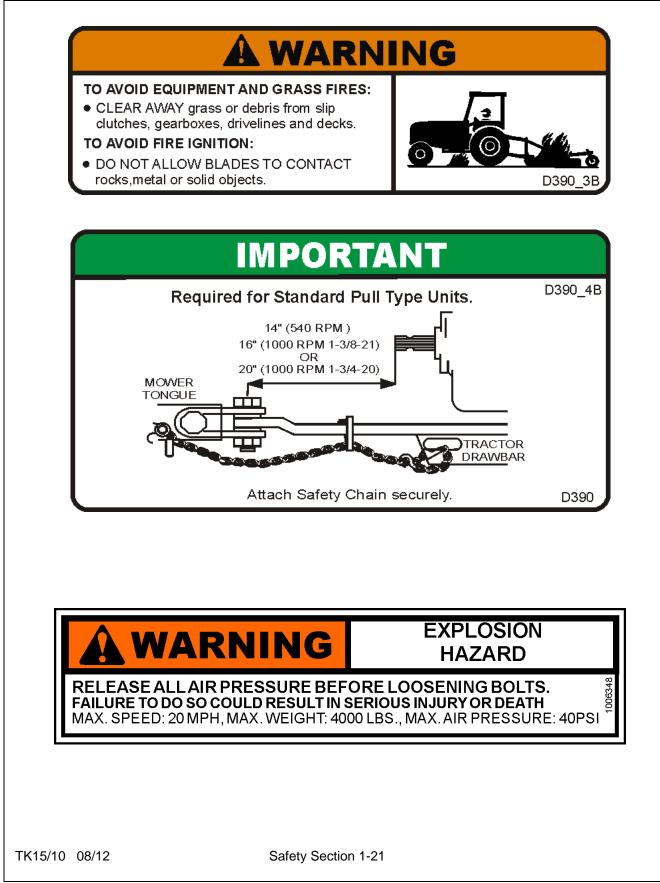
TK15/10 08/12

Safety Section 1-18

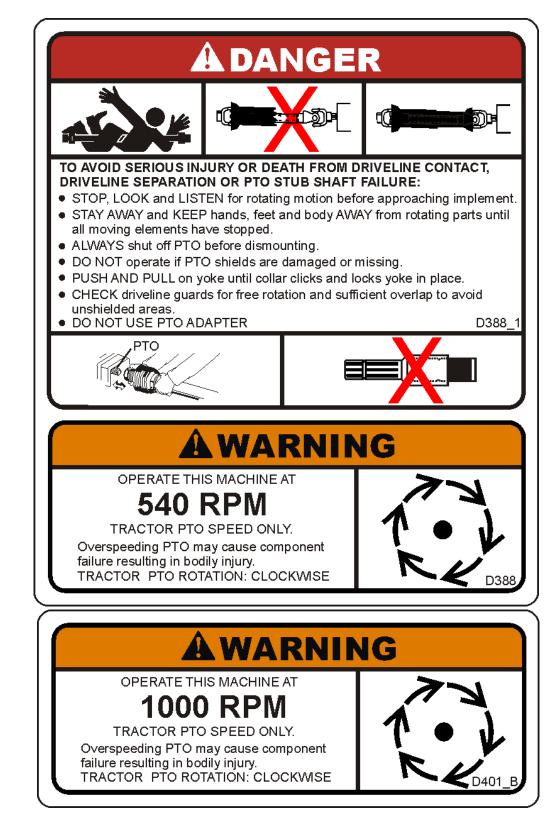


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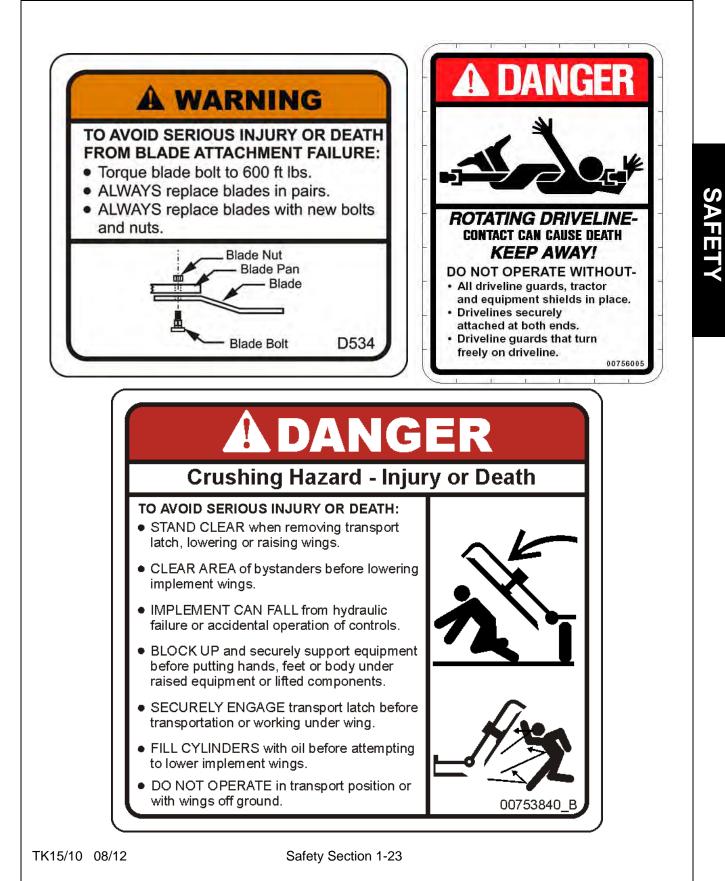


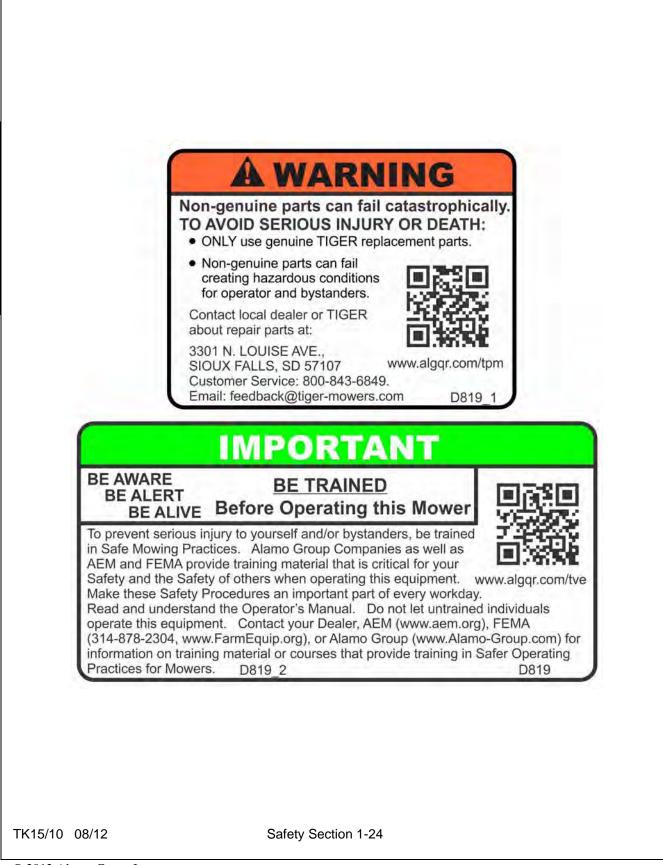


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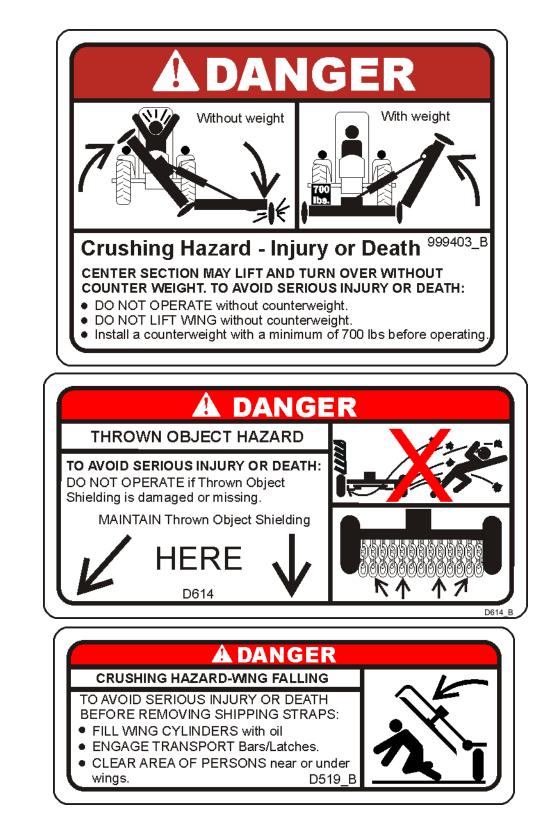


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SAFETY



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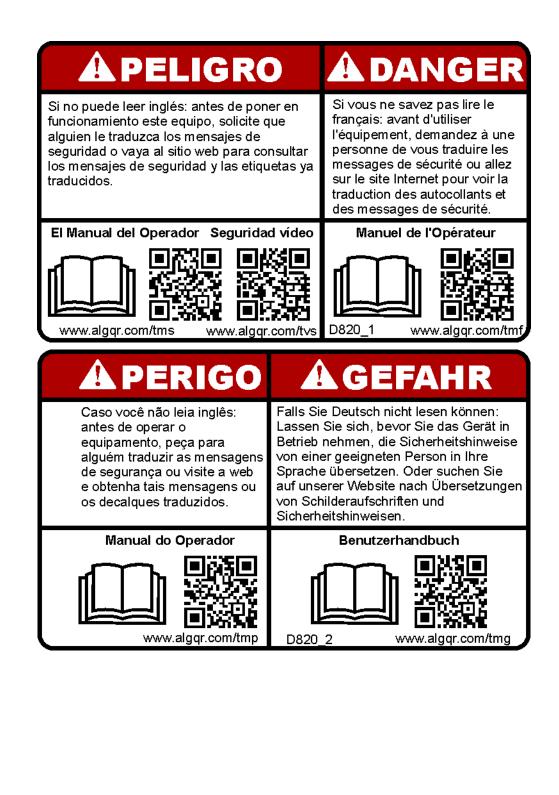
Safety Section 1-25



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Safety Section 1-26

SAFETY



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Safety Section 1-27

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.)

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Safety Section 1-28

SAFETY

INTRODUCTION SECTION

Introduction Section 2-1

We are pleased to have you as a Tiger 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.

Tiger 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 6", 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 Tiger 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.

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

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

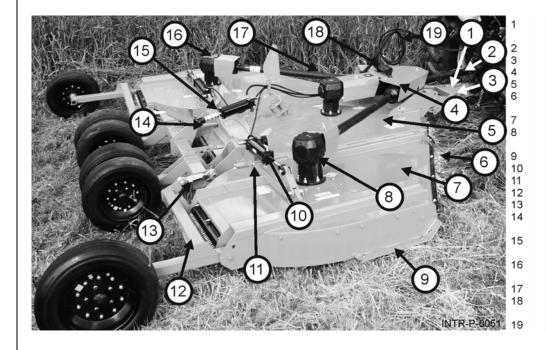
Indicates an imminently hazardous situation that, if not avoided, MAY result in MINOR INJURY.

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.

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Introduction Section 2-2



The Tiger Model TK15/TK10 Rotary Cutter is designed primarily for weed, grass, and brush to 4" diameter and consists of a center unit with two variable position wings together having a cutting width of 15 feet. Wing operating angles and machine cutting height are independently controlled using hydraulic cylinders. A self-leveling linkage maintains a level cutter at all cutting heights. Power from the tractor PTO is split at the power divider gearbox and supplied to each of the blade gearboxes. Each blade gearbox has two free-swinging uplift blades designed to cut grass, corn stalks and light brush. Free-swinging blades reduce the shock of impact when a stationary object is hit. Slip clutches are installed on each gearbox for additional protection. Front and rear discharge shields are included as standard equipment.

Equipment Specifications

	TK10	TK15		TK10	TK15
Cutting Width	180"	126"	Blade Tip Speed	540 PTO	1000 PTO
Transport Width	96"	88"	Center	15,980 FPM	15,974 FPM
Overall Width	186"	133"	Wings	16,114 FPM	17,525 FPM
Overall Length	183"	183"			
Cutting Height	1-1/2" - 14-1/2"	1-1/2" - 14-1/2"	Gearbox Rating		
HP Required (min)	50HP	50HP	Power Divider	235 HP	235HP
Cutting Capacity(max)	4"	4"	Center & Wings	205 HP	205 HP
Drawbar Load Rating(min)	2100 lbs	2100 lbs	LImited Warranty	6 Year	6 Year
Wing Flex Up	90°	90°	Driveline Size		
Wing Flex Down	22°	22°	Main	CV CAT 5	CV CAT 5
Tongue Weight	2100lbs	2100lbs	Wings	CAT 5	CAT 5
			Limited Warranty	2 Year	2 Year

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Introduction Section 2-3

Driveline Storage Support Input CV Driveline Tongue Divider Gearbox Center Section Thrown Objects Chain Guards **Right Wing Section Right Wing Blade** Gearbox Skid Shoe Wing Cylinder Wing Transport Latch Axle Wing Height Adjustment Front to Back Tilt Adjustment Height Adjustment Cylinder Left Wing Blade Gearbox Wing Driveline Operator's Manual Canister Hose Holder Rod

Literature Page



www.algqr.com/tle

KEY OPERATION POINTS

- Cutting performance and distribution are best when cutter is level from side to side. Mower front to rear pitch should be 1" or less.
- In extra heavy material, rear chains will allow better discharge and better distribution than solid rear deflectors or bands.
- Never operate the Flexwing below full PTO speed of 540 or 1000 rpm.
- For good distribution, the distribution baffles must be used.
- Make sure PTO driveline slip clutches are not frozen and are properly adjusted.
- To reduce uneven grass cutting and streaking.

-make sure tractor rear tire spacing is a minimum of 60" between the inside of the tires.

-make sure blades are not bent and are in good condition.

-reduce ground speed to allow more cutting time.

- Corn should be cut at 5 to 6 mph. If full PTO rpm cannot be maintained, use one lower gear.
- Corn yield of 180 bu. per acre will require a minimum of 105 PTO horsepower to shred at 5 to 6 mph. To
 maintain the suggested 5 to 6 mph ground speed when cutter is equipped with deck rings, a minimum PTO
 horsepower of 115 is recommended.
- If Tractor engine is lugging down, shift tractor to a lower gear
- ALWAYS OPERATE WITH THE WING HYDRAULIC CYLINDER CONTROL VALVES IN A FLOAT POSITION.
- For maximum performance and service life, Always use Genuine Tiger replacement parts

Operating Noise Level/Sound Pressure

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

TIGER Warranty information

In addition to the standard Limited Warranty shown on the facing page, Tiger also provides:

1. A SIX-YEAR (72 months) LIMITED WARRANTY* on GEARBOX components provided they have been properly maintained† and have not been subjected to abuse or mis-use except as limited below.

* WARRANTY LIMITATIONS - GEARBOX

A. Warranty is ONE-YEAR (12 MONTHS) for Seals (After one year, seals are considered to be WEARING PARTS and replacement is the users' responsibility.)

B. Users' Gearboxes may be rebuilt by Tiger or replaced by new or rebuilt Gearboxes at the option of Tiger.

2. TWO-YEAR (24 months) LIMITED WARRANTY** on the DRIVELINE components provided they have been properly maintained† and have not been subjected to abuse or mis-use.

* *WARRANTY LIMITATIONS - DRIVELINE

A. Warranty is ONE-YEAR (12 MONTHS) for DRIVELINE SHIELDS except that evidence of wear from contact with other parts on the shield voids this warranty.

B. Shield Bearings are wearing parts and are not warrantable.

C. Slip-Clutch Disks are wearing parts and are not warrantable. Evidence of "burning up" Slip Clutch Plates due to improper adjustment will void warranty on Slip Clutch Parts.

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Introduction Section 2-4



TIGER CORPORATION WARRANTY INFORMATION

Tiger Corporation, 3301 N. Louise, Sioux Falls, South Dakota, warrants to the original Retail Customer, the new Tiger equipment is free of defects in material and workmanship. Any part of said equipment that in Tiger's adjustment, show evidence of such defects will be repaired or replaced without charge, provided that the failure of part(s) shall have occurred within twelve (12) months from the date of delivery of said equipment to the Retail Customer. Expendable components such as knives, oil, chain sprockets, skid shoes, knife mounting disks and the like are excluded but not limited to this warranty.

The Retail Customer must pay the transportation cost to and from the Tiger Dealer's service shop for warranty service. Warranty service will be performed by the Tiger Dealer from whom the equipment was purchased, in his service shop and during his regularly scheduled days and hours of operation.

All Tiger obligation under this warranty shall be terminated if the equipment is modified or altered in ways not approved in writing by Tiger, if repair parts other than genuine Tiger repair parts have been used, or if the equipment has bee subject to misuse, neglect, accident, improper maintenance or improper operation.

Tiger Corporation reserves the right to make improvements in design or changes in specification at any time without incurring any obligation to owners of equipment previously sold.

No agent or person has authority to alter, add to or waive the above warranties which are agreed to be in the only warranties, representations or promises, expressed or implied, as to the quality or performance of the products covered and which do not include any implied warranty of merchantability or fitness. In no event will Tiger be liable for incidental or consequential damages or injuries, including, but not limited to, loss of profits, rental or substitute equipment or other commercial loss.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE EXPRESSED HEREIN.

It is the Purchasers obligation to sign the warranty registration form **AFTER** he / she has Read and Understands the Operation and Safety Instructions stated within this manual.

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Introduction Section 2-5

ASSEMBLY SECTION

Assembly Section 3-1

DEALER SET-UP INSTRUCTIONS

The mower as received from the factory is virtually completely assembled and requires minimum time to complete assembly and is ready for sale.

AWARNING

On a fully assembled unit, do not release the Wing Retaining Strap until the hoses are attached to the tractor and the Wing Cylinders are filled with oil. Always keep bystanders away while raising and lowering the wings

To lower the wings, hook the hydraulic hoses to the tractor. From the Operators Seat use the tractor hydraulic control levers to fill wing cylinders with oil (Refer to Operation Section). Keep coworkers and bystanders away from the implement while filling. For implements with the wings in the raised or transport position, filling the cylinders should raise the wings slightly and loosen the wing retaining lock. DO NOT release the wing Transport Bar/Latch if there is a force on the lock. Use tractor hydraulic control levers to lower the wing(s). Continue to hold the control lever until both wings are down and the wing cylinders are fully retracted or extended. Continue to cycle the cylinders several times by raising and lowering the wings fully to remove any trapped air. If there is sponginess during the raising cycle, this may indicate that air is entrapped in the hydraulic circuit. Continue to cycle the cylinders is removed.

The implement wings should lower slowly when they are allowed to float down and are not powered down. This is a safety feature built into the system. If the wings fall rapidly, have the cylinders repaired before operating the implement. *Asm-0002*

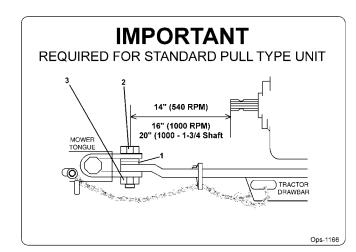


TK15/10 07/12

Assembly Section 3-2

Select a suitable work area large enough to allow for lowering of the wings. Use extreme caution when connecting the mower to the tractor. The mower should be securely resting at ground level or sitting on blocks. Keep hands and feet from under the mower deck and clear of pinch points between the tractor hitch arms and mower pins.

- 1. Use the implement jack to raise the implement tongue until it is even with the tractor drawbar. Insert the jack into the jack adapter in the implement tongue and swivel it so that it is vertical. Follow the instructions on the jack. Install the jack retaining pin. Measure the height of the tractor drawbar and raise the implement tongue to the same height.
- Make sure the tractor PTO is the correct speed and shaft size for the implement. Ensure the drawbar is extended the proper distance from the Tractor PTO shaft for desired PTO speed; 540 PTO is 14" and for 1000 PTO speed the distance is 16"



- 3. Carefully back tractor to mower. Do not allow coworkers or bystanders between the tractor and the implement while backing. When dismounting the tractor ALWAYS shut down the tractor, disengage the PTO, and set the parking brake before dismounting.
- 4. Install the retaining bolt through tongue clevis and tractor drawbar. The implement tongue is very heavy. Make any height adjustments using the implement jack. Place two 1" flatwashers (1) positioned under top lip of tongue clevis and to the top of drawbar. Insert a 1" diameter grade 5 or 8 bolt (2) through clevis and drawbar and retain in position with a 1" locknut (3). Tighten the locknut securely but do not overtighten, which could spring or break the clevis.

NOTE: NEVER attach mower to the tractor with a pin not having a nut.

- 5. Install the implement tow chain to a secure location on the tractor.
- 6. Attach proper hydraulic couplers to implement hose ends. Insert the wing hose quick disconnect couplers into tractor hydraulic remotes.
- 7. Mount tractor, fasten your seatbelt and start engine. From the operators seat use the tractor hydraulic control levers to fill wing cylinders with oil. Filling the cylinders should retract the wings slightly to their minimum closed width. Continue to apply pressure to cylinders for at least 10 seconds to assure they have filled with fluid.

AWARNING Keep coworkers and bystanders away from the implement while filling.

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Assembly Section 3-3

ASSEMBLY

 Remove retaining bracket from end yoke of main driveline. Remove main driveline from mower and place on ground or hard surface. Figure AsmP-R-0120



 Make sure the wing Transport Bars/Latches are locked in the position to hold the wings vertically before removing shipping strap. Figure AsmP-R-0118



10. Stand between the wings of the implement and remove strap.

AWARNING Do not stand outside of the wing to remove the shipping strap, if the wing falls it could kill you. Make sure no bystanders are under the wing or in the area where the wing could fall.

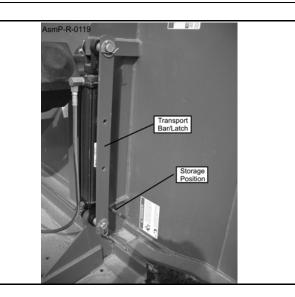
11. Reinstall nut and flatwasher to retain side skirt.

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Assembly Section 3-4

ASSEMBLY

12. Filling the cylinders with oil should raise the wings slightly and loosen the wing Transport Bars/Latches retaining pin. *NOTE: DO NOT release the wing Transport Bar/Latch if there is a force on the pin.* If there is a force holding the Transport Bar/Latch in place, use the tractor hydraulic control levers while in the tractor seat to raise the wings until the force is relieved. Release the Transport Bar/Latch and secure in the storage location. **Figure AsmP-R-0119**



13. From the tractor seat use the tractor hydraulic control levers to lower the wing(s).

AWARNING Keep coworkers and bystanders away from the implement while filling.

- 14. Continue to hold the control lever until both wings are down and the wing cylinders are fully extended. Continue to cycle the cylinders several times by raising and lowering the wings fully to remove any trapped air. If there is sponginess during the raising cycle, this may indicate that air is trapped in the hydraulic circuit. Continue to cycle the cylinders until all sponginess is removed.
- 15. Test to make sure the wings lower slowly when they are allowed to float down and are not powered down. This is a safety feature built into the system. If the wings fall rapidly, have the hydraulic system or cylinders repaired before operating the implement.

CONNECTING DRIVELINE

A 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)

AWARNING

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

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Assembly Section 3-5

ASSEMBLY

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_I*

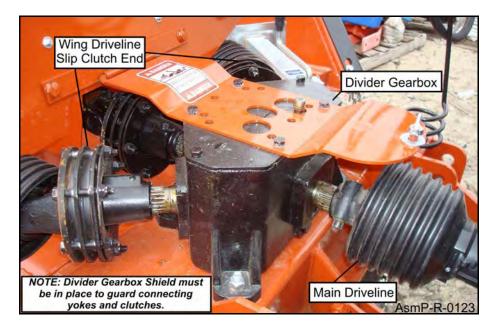


A CAUTION

ASSEMBLY

Many of the equipment components are **HEAVY** (60 lbs or greater) and Special Lifting Procedures are recommended. Use lifting assistance such as mechanical assistance, two people, and proper lifting techniques when connecting or installing the driveshaft to reduce the possibility of back injuries.

1. Remove taper pin from main driveline implement connection yoke and insert onto power divider gearbox shaft. Insert pin and tighten to 75 ft. lbs.



2. Inner center axle dual tire assemblies are shipped bolted on wing mount tubes. Remove transport bars from wings and lower each wing so that inner tire and hub assembly can be removed and installed on center axle.

NOTE: It will be necessary to raise each side of center axle slightly so inner dual tires can be installed.

3. Install gearbox vents or vent dipsticks if not installed. Check all gearbox lube levels.

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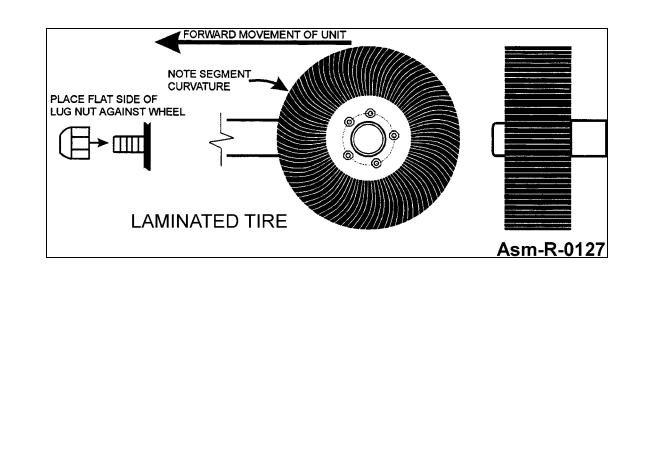
Assembly Section 3-6

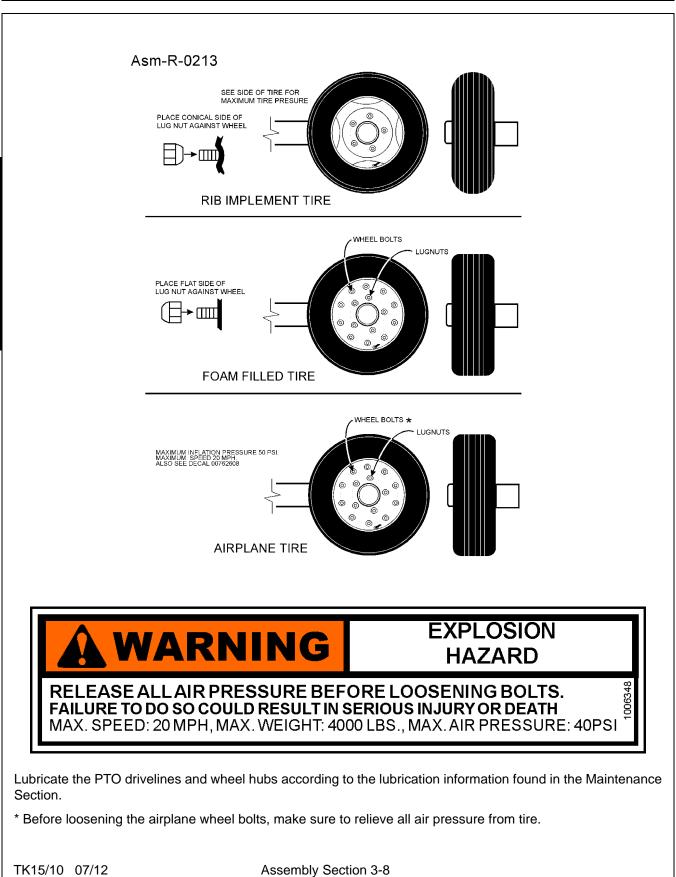
TIRES AND WHEELS

Before installing any tires and wheels make certain the Cutter is jacked up high enough and is securely supported. When installing laminated or airplane tires, be sure the flat side of the lug nut is against the wheel. There are only three types of tires that can be used on this cutter DO NOT USE ANY OTHER TYPE OF TIRE OR WHEEL, such as automotive tires and rims. DO NOT EXCEED THE MAXIMUM SPEED FOR EACH TYPE OF TIRE. As excessive speed can cause damage to the machine, tire, and wheel.

When installing Laminated Tires and Wheels note the direction of travel and the curvature of rubber segments in the tire and install as shown in **Figure Asm-R-0127**. Do not exceed 20 M.P.H. on Laminated Tires. When removing Airplane Tires, let all of the air out of the tire before removing lug nuts or wheel bolts or nuts. Remove valve core to make certain that there is no air pressure left in tube before separating wheel halves to dismount tires. DO NOT LOOSEN WHEEL CLAMP BOLTS BEFORE PRESSURE IS REMOVED FROM TUBE AND TIRE TO PREVENT EXPLOSIVE SEPARATION OF WHEEL HALVES WITH POSSIBLE SERIOUS BODILY INJURY. Do not exceed 20 M.P.H. on Airplane or Rib Implement Tires.

Maximum airplane tire inflation pressure is 50 PSI, minimum inflation pressure is 20 PSI. Inflate ribbed implement tires to manufacturer rated PSI as shown on the tire sidewall.

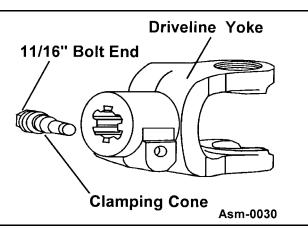




ASSEMBLY

Driveline Clamp Cone Yoke Operating Instructions

Loosen the yoke clamp cone with a 11/16" (17mm) wrench and remove the cone from yoke. Slide yoke onto the shaft and align hole for clamping cone with annular groove of gearbox shaft. Reinstall cone and tighten (75 lb-ft torque). Push and pull the driveline to ensure it is securely attached to the shaft. Regularly check the driveline yoke to ensure a tight connection. To remove the yoke, remove the connecting cone and pull yoke off the shaft. If the cone cannot be easily removed by hand, drive it out from the other side using a hammer and punch.



NOTE: The clamping cone is serviced only as a complete assembly. Do not attempt to disassemble the clamping cone.

Mower is now assembled and ready for pre-delivery checks.

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Assembly Section 3-9

OPERATION SECTION

TIGER TK10/TK15 ROTARY MOWER OPERATION INSTRUCTIONS

Tiger TK15/10 rotary mowers are manufactured with quality material by skilled workers. These mowers are designed to cut grass, weeds, crop stalks, small brush and other vegetative material up to 4" diameter. The mower is equipped with protective deflectors and/or chain guards to prevent objects being thrown from the mower 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 mower, tractor, or a thrown object. Do not operate the mower if passersby, pets, livestock, or property are within 300 feet of the unit 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.

This section of the Operator's Manual is designed to familiarize, instruct, and educate safe and proper mower use to the operator. Pictures contained in this section are intended to be used as a visual aid to assist in explaining the operation of a flex-wing rotary mower and are not necessarily of a TK15/10 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 mower and tractor operation and all associated safety practices before operating the mower and tractor. Proper operation of the mower, as detailed in this manual, will help ensure years of safe and satisfactory use of the mower.

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

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

<u>READ, UNDERSTAND, and FOLLOW</u> 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)



A PELIGRO Si no le medida

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



TK15/10 07/12

1. OPERATOR REQUIREMENTS

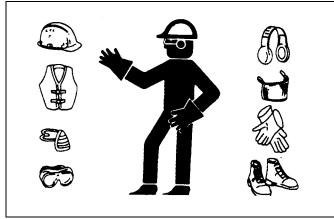
Safe operation of the unit is the responsibility of a qualified operator. A qualified operator has read and understands the implement and tractor Operator's Manuals and is experienced in implement and tractor operation and all associated safety practices. In addition to the safety messages contained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

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

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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



A 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)



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2. TRACTOR REQUIREMENTS

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

Tractor Requirements and Capabilities

- ASABE approved Roll-Over Protective Structure (ROPS) or CAB and seat belt.

- Tire Wheel Spacing Set tires minimum width of 60" from inside to inside of tires.

2.1 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 rollover-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)



2.2 Tractor Safety Devices

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

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

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3. Tractor Horsepower

The horsepower required to operate the mower depends on several operating factors including the vegetation to be cut, terrain condition, operator experience, condition of the mower and tractor, and others. For most mowing conditions, the TK15 mower requires a tractor with a minimum of 40 HP and the TK10 mower requires a tractor with a minimum of 50 HP. Operating the mower with a tractor that does not have adequate power may damage the tractor engine. Exceeding 100 HP for a 540 RPM drive and 140 HP for a 1000 RPM drive may cause mower damage by overpowering the unit in heavy cutting conditions.

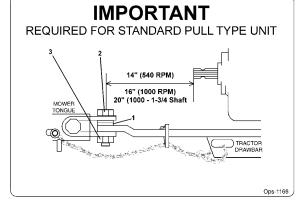
<u>3.1 Drawbar</u>

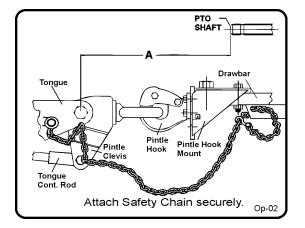
Constant Velocity and Standard Driveline.

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

Pintle Hook Hitch-Optional Equipment

Drawbar length must be modified to obtain dimension "A" (CV Driveline = $17" \pm 2"$, Standard Driveline = $19" \pm 2"$).





3.2 Tractor Hydraulics

The mower center section and each wing are positioned with hydraulic cylinders that are operated by the tractor hydraulic pump. The tractor must have a minimum of 2 hydraulic control valves devoted to the mower unless the tractor is fitted with a 3-spool control valve (extra equipment).

A 3-spool control valve is required if the tractor is equipped with a single valve and is recommended for those with two valves so that the center section and each wing can be controlled independent of one another. Refer to the Assembly Section of this manual for properly equipping the tractor with a 3-spool control valve. Tractors equipped with three hydraulic ports can position the center section and each wing independently with no extra equipment. If the tractor is equipped with only two hydraulic ports and a 3-spool control valve is not used, the wings cannot be operated independently and will raise and lower at different speeds.

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3.3 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*

3.4 Power Take Off (PTO)

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

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

A DANG ER

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)

AWARNING

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)

A DANGER

Do not connect the PTO driveline to the tractor or operate the implement unless the implement is securely connected to the tractor.

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3.5 Tire Spacing

Tractor tires should be set a minimum of 60"(1.5 mm) apart measured from inside of tire to inside of tire. Refer to the tractor Operator's Manual or consult an authorized dealer for instructions to change tractor tire spacing. *OPS-R- 0062*



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*

AWARNING 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*

🛕 DANG ER

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)





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



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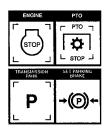
Operation Section 4-7

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)



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*

A DANGER

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

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A DANGER 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

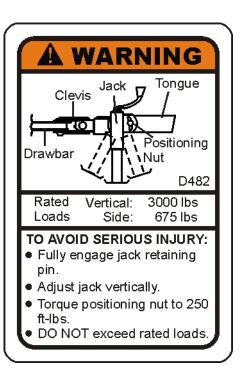
Use extreme caution when connecting the mower to the tractor. The mower should be securely resting at ground level or setting on blocks. Keep hands and feet from under the mower deck and clear of pinch points between the tractor hitch arms and mower pins. *OPS-R-0001*



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)

6.1 Connecting Mower Tongue to the Tractor

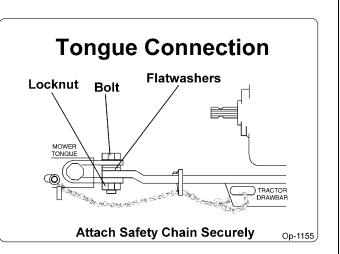
- 1. Ensure the tractor is equipped with the correct PTO shaft and the drawbar is set at the correct length.
- 2. Using the parking jack, position the tongue clevis to the height of the tractor drawbar. Adjust the mower tongue to be level and parallel with the tractor drawbar using the control rod connecting the mower tongue to the deck.
- 3. Board the tractor and start the engine. Back the tractor to the mower aligning the drawbar hitch hole with the mower tongue clevis. Turn off the tractor engine, place the tractor in park, and set the parking brake before dismounting.



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- 4. To attach the mower, place two 1" flatwashers (1) positioned under top lip of tongue clevis and to the top of drawbar. Insert a 1" diameter grade 5 or 8 bolt (3) through clevis and drawbar and retain in position with a 1" locknut (4). Tighten the locknut securely but do not overtighten which could spring or break the clevis. NEVER attach mower to the tractor with a pin not having a nut.
- 5. Securely attach the mower safety chain to the tractor drawbar or drawbar support frame.
- Lower the jack until the tongue is completely supported by the drawbar. Remove jack from the tongue and place on storage bracket of mower.



6.2 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*

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



6.3 Connecting Mower Hydraulic Lines to the Tractor

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

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

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Operation Section 4-10

OPERATION

6.4 Operating Mower Hydraulics with Three Tractor Hydraulic Ports

Connect one hose into each hydraulic port. Connect lines to correspond with position of hydraulic control levers.

6.5 Operating Mower Hydraulics with Two Tractor Hydraulic Ports

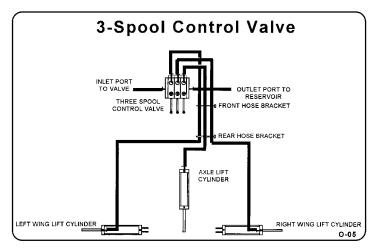
The lines that operate the wings must be plumbed together and will be controlled using one hydraulic control valve and the center section with the remaining control valve. Ensure that the operator is aware that each wing cannot be controlled independently nor will they raise and lower simultaneously.

6.6 Operating the Mower Hydraulics with a 3-Spool Hydraulic Control Valve (Extra Equipment)

Ensure the valve matches the hydraulic operating system of the tractor (open or closed center). Refer to the Assembly Section for additional information on equipping the tractor with a 3-spool control valve.

Mount the valve bank to a tractor fender or other accessible location. Connect valve bank inlet and outlet lines to outlets of the same tractor hydraulic port. Connect the mower hydraulics to the control valve bank with the center section line to the right port. Connect the wing cylinder lines to the control valve positioned to correspond with the left and right wing.

To activate the 3-spool hydraulic control valve, tie the tractor's hydraulic control lever back to keep hydraulic oil continuously fed to the valve bank.



6.7 Hydraulic Line Support

After connecting the mower hydraulic lines to the tractor, support the hoses with the equipped brackets. Ensure that hoses do not contact the driveline, do not bind while turning, and do not become pinched or kinked.

6.8 Hydraulic Cylinder Priming

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

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Operation Section 4-11

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

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)



7.1 Setting Deck Height

LEVELING DECK CENTER SECTION

- 1. Place the tractor and mower on a level surface and lower both wings.
- 2. Using the center section hydraulic cylinder, position the mower so the skid shoes are 1" less off the ground than the desired final cut height. For example, for a 3" cut raise or lower the mower until the skid shoes are approximately 2" off the ground.
- 3. Shut down the tractor, place the transmission in park, and set the parking brake before dismounting.
- 4. Level the mower deck front to rear by adjusting the leveling rods linking the tongue to the rear axle. DO NOT allow feet or other body parts underneath the mower when making adjustments. To adjust rod length, loosen jamnut and screw turnbuckles. To lower the front, lengthen the rods and to raise the front, shorten the rods. DO NOT unscrew turnbuckles to the point that either rod threaded ends becomes disconnected which will cause the mower to fall. Re-tighten jamnuts when deck is leveled.
- 5. IMPORTANT: Alternate adjustments between rods and adjust at equal lengths to maintain equal tension. Improper adjustments may cause rods to snap or bend.
- 6. Place split collar assemblies on the center axle hydraulic cylinder rod to maintain a set cutting height each time the mower is raised and lowered.

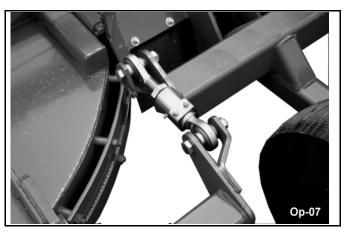
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LEVELING WING SECTIONS WITH CENTER

To level the wing sections with the deck center, adjust the leveling screw between the wing axle and the center axle. To lower the wing, loosen the jamnut and shorten the screw assembly, lengthen the screw assembly to raise the wing. After wings are leveled, retighten jamnuts to maintain settings.



OPERATION

7.2 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.

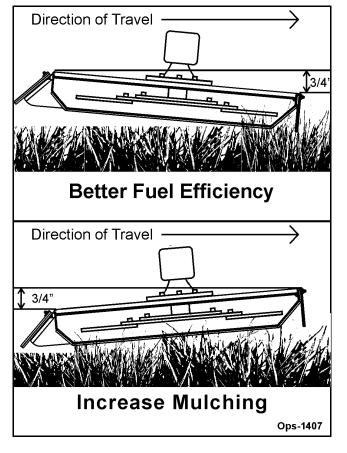
Increase Mulching

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



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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*



AWARNING

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

8.1 Driveline Length Check

AWARNING

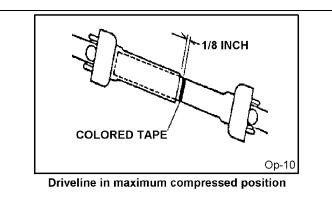
Before operating the Implement, check to make sure the Implement input driveline will not bottom out or become disengaged. Bottoming out occurs when the inner shaft penetrates the outer housing until the assembly becomes solid-it can shorten no more. Bottoming out can cause serious damage to the Tractor PTO by pushing the PTO into the Tractor and through the support bearings or downward onto the PTO shaft, breaking it off. A broken driveline can cause personal injury. (S3PT-18)

When fitting the mower to the tractor, the telescoping driveline must be inspected to ensure that at its most compressed position, the profiles do not "bottom out", and when at its farthest extended position, there is sufficient engagement between the profiles to operate safely. At its shortest length, there must be at least a 1" clearance between each profile end and opposite profile universal joint. At its farthest operating extension, a minimum profile engagement of 6" must be maintained for a Constant Velocity (CV) tube type driveline and a minimum engagement of 6" for non-CV solid shaft drivelines.

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"Bottoming Out" Check Procedure

- Disconnect driveline from the tractor and slide the profiles together until fully compressed.
- Place a mark on the inner shield 1/8" from the end of the outer shield and reattach the driveline to the PTO shaft.
- With the **PTO NOT TURNING**, slowly drive the tractor with mower attached through the sharpest turn possible and watch shaft movement. With the **PTO NOT TURNING**, slowly drive the tractor with the mower attached through the most severe terrain conditions expected and watch shaft movement.



 If the distance between the mark and the outer shield becomes less than 2" at any point there is a potential problem bottoming out the driveline and the driveline should be replaced with shorter driveline. Contact your local dealer or Technical Service for proper directions. OPS-R-0004_J

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

Engagement Check Procedure

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

NOTE: If the driveline cannot be shortened and still maintain the required profile engagement, the operator must be made aware of terrain conditions and avoid situations which pose a potential problem to avoid damaging the driveline or move drawbar to 16" or 20" position for required clearance. OPS-R-0005_0

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8.2 Constant Velocity (CV) Driveline

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

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

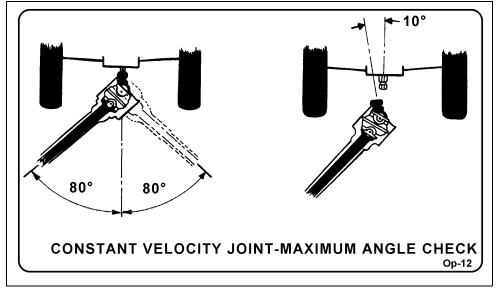
CV Driveline Maximum Angle Check Procedure

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

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

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

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



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A CAUTION

The Constant Velocity PTO driveline is **HEAVY** (70 lbs or greater) and Special Lifting

Procedures are recommended. Use lifting assistance such as mechanical assistance, two people, and proper lifting techniques when connecting or installing the driveshaft to reduce

the possibility of back injuries. Do not turn so sharp or lift mower so high to produce a severe "knocking" of the Driveline A DANGER which will cause accelerated wear and breakage of drive train components and could result in possible injury from the separated Driveline sections. (SRM-04) 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 A DANGER 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) **DO NOT** allow any person under a folded wing unless wing is securely A DANGER locked up or supported. DO NOT approach the Implement unless the Tractor is turned off and all motion has ceased. Never work under the frame work, or any lifted component unless the implement is securely supported or blocked up. A sudden or inadvertent fall by any of these components could cause serious injury or even death. (STI-03) Periodically inspect all moving parts for wear and replace when **AWARNING** 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) TK15/10 07/12 **Operation Section 4-17** © 2012 Alamo Group Inc.

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

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*

A 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 ^s 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)

Tractor PTO, Integral Shield Shield Chain guard

🛦 DANG ER

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)

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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*
- Ensure the mower hitch is securely attached to the tractor drawbar with a proper size bolt and secured nut.
- Ensure that a properly rated safety tow chain is equipped securing the mower to the tractor.
- Check that the main driveline is securely attached to the tractor and the clamping cone is seated in the groove of the PTO shaft.
- Ensure the divider drivelines are secure at both ends. *OPS-R-0008*
- Ensure chain guards and/or rubber deflectors are in position and not damaged. Replace worn, broken, and missing sections immediately.
- Ensure the driveline integral shields are in good condition and rotate freely.
- Inspect that all bolts and screws are in position and are properly torqued. *OPS-R-0009*







OPERATION

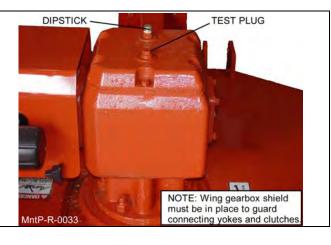
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- Ensure the tractor PTO master shield is in place, lowered and in good condition.
- Ensure each mower slip clutch shield is secured in place and in good condition.
- Ensure the driveline slip clutches are properly adjusted and the friction plates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



- Perform scheduled lubrication as specified in the maintenance section.
- Inspect each gearbox oil level using dipstick level indicator and replenish if needed. A low oil level is a warning sign that the gearbox may be cracked or its seal is damaged and needs to be replaced.
- Ensure all gearbox vents are in place and free from clogs. OPS-R-0011_K
- Inspect blades and blade bolts for looseness and excessive wear. Make sure the mower is securely blocked up before crawling beneath. Replace damaged, worn, and missing blades as complete sets to maintain rotary balance.
- Ensure carrier hub nuts are tightened with the cotter pin inserted and spread.
- Inspect the condition of the deck skid shoes and the skid shoe attaching hardware. OPS-R-0012





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Operation Section 4-20

OPERATION

- Ensure each hydraulic cylinder is installed and retained correctly. Ensure the proper size pins are used to retain the cylinders in place and are secured with pins.
- Check for hydraulic oil leaks on the cylinders, along the hydraulic lines, and at tractor hydraulic ports. **IMPORTANT**: DO NOT use your hands to check for oil leaks. Use a piece of heavy paper or cardboard to check for hydraulic oil leaks. *OPS-R-0013_B*



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



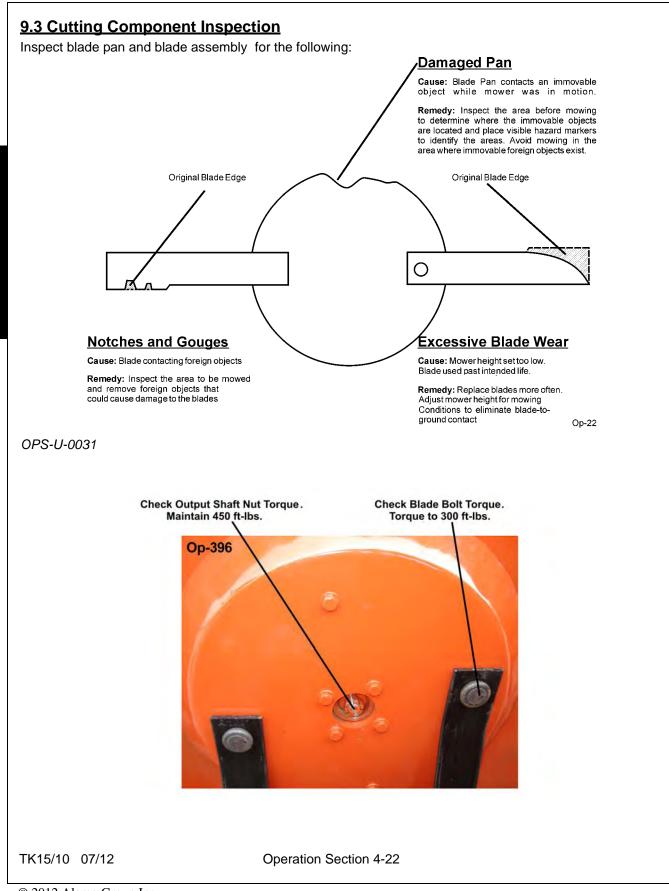
• Before mower operation ensure that the bolt is removed from both floating links on the unit. These bolts are for shipping purposes only. *OPS-R-0086*



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Operation Section 4-21

OPERATION



AWARNING

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

Important

To help prevent structural damage caused by loose hardware, tighten gearbox mounting hardware as specified. Check the fastener torque after first 8 hours of use and every 50 hours thereafter.



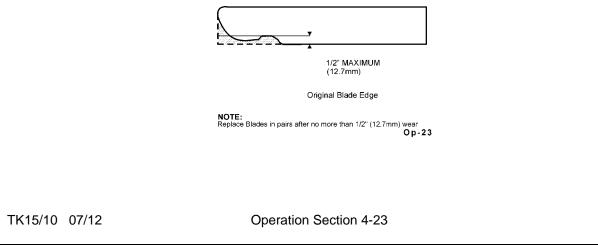
Inspect the Blades daily for abnormal wear. REPLACE BOTH BLADES on that carrier IMMEDIATELY if either blade has:

- · Become bent or deformed from it's original shape or
- Any cracks are visible, or

A DANGER

- 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*



9.4 Blade Bolt Inspection

Inspect Blade Bolt Head daily for wear as followed:

Excessive Blade Bolt Wear

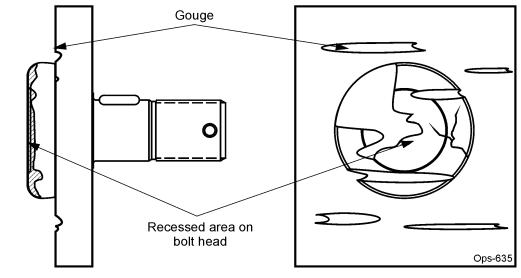
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

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

🛕 DANG ER

- 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

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Rotary Mower PRE-OPERATION Inspection



Mower ID#_____IMPORTANT: Scan this QR Code for an _____ electronic copy of this inspection sheet.



www.algqr.com/rmi

AWARNING

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

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Operation Section 4-25

Tractor PRE-OPERATION Inspection



Mower ID#_____

Make _____

Date:

Shift

AWARNING

Before conducting the inspection, make sure the tractor engine is off, all rotation has stopped and the boom is in park with the parking brake engaged. Make sure the boom 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 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 boom 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 ROBS 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 MOWER

This Inspection Form may be freely duplicated for extra copies.

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10. 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*

A DANGER

This Implement may be wider than the Tractor. Be careful when operating or transporting this equipment to prevent the Implement from running into or striking sign posts, guard rails, concrete abutments or other solid objects. Such an impact could cause the Implement and Tractor to pivot violently resulting in loss of steering control, serious injury, or even death. Never allow the Implement to contact obstacles. (S3PT-12)

AWARNING

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



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Operation Section 4-27

10.1 Starting the Tractor

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



10.2 Brake and Differential Lock Setting

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

Always disengage the tractor differential lock when turning. When engaged the differential lock will prevent or limit the tractor from turning. During normal cutting conditions, locking the differential provides no benefit and should not be used. *OPS-U-0013*



AWARNING

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.

10.3 Operating the Mower Wings

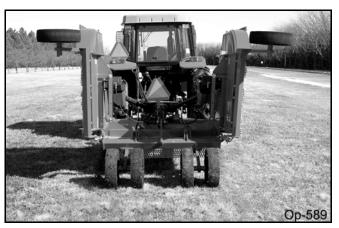
Wings are positioned with hydraulic cylinders. It is recommended that the tractor be equipped with three hydraulic ports or a 3-spool control valve be used so that each section can be controlled independently. Ensure the hydraulic cylinders and lines are filled with oil by holding the valve control levers in the raised position until the cylinders fully retract (wings) and extend (center). Only operate the mower with both wings fully lowered, NEVER operate the mower with a raised wing. Wait until the blades are at a complete stop before raising wings. *OPS-R-0015*

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10.4 Transport Position

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

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



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

10.5 Operating Position

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

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



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

10.6 Driving the Tractor and Cutter

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

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

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



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.

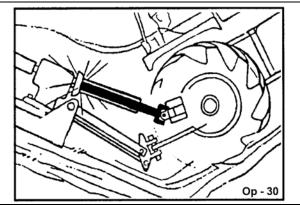
Use extreme caution when operating on steep slopes. Keep the tractor in a low gear when going downhill. DO NOT coast or free-wheel downhill. *OPS-R-0018*



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10.7 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.

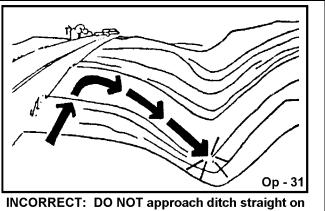




Damage resulting from over-collapse of the driveline's inner profile and its outer housing may allow the driveline to come loose from the Tractor which could cause bodily injury to the operator or bystanders and/or extensive damage to the Tractor or Implement. *OPS-R-0020*

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*



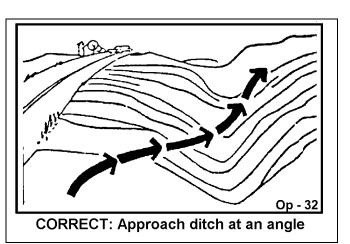
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Inclines and ditches should be approached along a line which is at an angle as shown. This type of path will reduce the possibility of over-collapse of the driveline and resulting damage. If the gradient is so steep that such an approach increases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



11. 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*

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)



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AWARNING

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)

11.1 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

11.2 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*

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OPERATION

ADANGER 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.



-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)

11.3 Engaging the Power Take Off (PTO)

Before engaging the PTO, make certain that the area is clear of bystanders and passersby. The implement must be completely lowered and the deck positioned at a safe operating height. NEVER engage the PTO with the implement in the raised position.

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 the rated speed. If you hear unusual noises or see or feel abnormal vibrations, disengage the PTO immediately. Inspect the implement to determine the cause of the noise or vibration and repair the abnormality. *OPS-U- 0027*

AWARNING

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)



AWARNING

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)



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11.4 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)

AWARNING

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)

11.5 Operating the Mower

Only operate the mower from the tractor operator's seat with the seatbelt securely fastened. The tractor must be equipped with a ROPS in the raised position or a ROPS cab.

The mower is designed to cut vegetation up to 3-1/2"(89mm) in diameter. Sharp blades will produce a cleaner cut and require less power. Travel at a speed that allows the mower sufficient time to cut through the vegetation and maintain the PTO operating speed to prevent overloading the mower and tractor. Choose a driving pattern that provides the maximum pass length and minimizes turning.

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. Check tire spacing as noted in Tractor Operators Manual.

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 reduced ground speed to ensure tractor and mower control is maintained.

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

AWARNING

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)

AWARNING

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)



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



-Equip the Tractor with a fire extinguisher in an accesible location.

-Do Not operate the Mower on a Tractor with an underframe exhaust.

-Do Not smoke or have an open flame near the Mower and Tractor.

-Do Not drive into burning debris or freshly burnt areas.

-Ensure slip clutches are properly adjusted to prevent excessive slippage and plate heating.

-Never allow clippings or debris to collect near drivelines, slip clutches, and gearboxes. Periodically shut down the Tractor and Mower and clean clippings and collected debris from the mower deck. $_{(SGM-12)}$

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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. NEVER raise the mower wings while the blades are turning.

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

If the mower is operated in conditions that require frequent sharp turning, the mower should be equipped with a Constant Velocity driveline. CV joints enable the tractor PTO shaft and mower driveline to be angled safely up to 80 degrees with no damage to the mower or driveline. *OPS-R-0027*



AWARNING

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)

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. *OPS-R-0028*

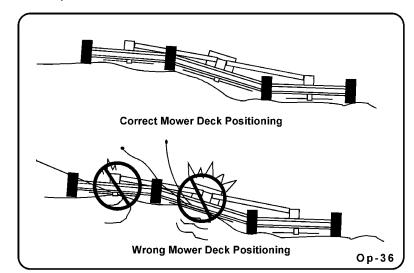


Operation Section 4-37

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When mowing across uneven areas such as road shoulders, ditch edges, and other uneven terrain, position mower so that one support wheel is near the highest point to prevent blades from cutting into gravel or dirt which can cause rapid blade wear and extremely severe shock loads on the drivetrain resulting in rapid wear or damage to these components. Blades contacting the ground may cause objects to be thrown out from under the mower deck. Always avoid operating the mower at a height or position which may cause the blades to contact the ground. Cutting into the berm or edge of the ditch will cause abnormal and accelerated blade wear and possible blade component failure. *OPS-R-0029*



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Operation Section 4-38

11.6 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.

A DANGER 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

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Operation Section 4-39

11.7 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*





12. DISCONNECTING THE MOWER FROM THE TRACTOR

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

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

A DANGER

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

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OPERATION

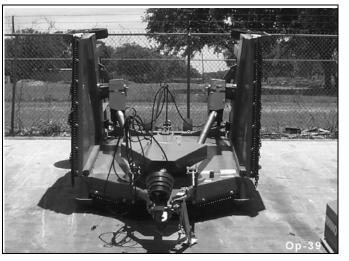
AWARNING

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

When disconnecting the mower the tractor should be completely shut down and secured in position. Relieve hydraulic pressure by moving the control levers 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. The jack should be in a near vertical position with the ground and can be adjusted by loosening the positioning nut and moving the jack up to 15 degrees in each direction. Also make sure that the jack foot is securely resting at ground level or securely supported by a block before raising the mower. Once the mower tongue is being supported entirely by the jack, remove the hitch bolt, locknut, and washers. Remove the hydraulic hoses from the tractor and secure to the mower to prevent contact with dirt.

After disconnecting the mower hitch, remove the mower driveline from the tractor PTO shaft. Place the driveline in its storage bracket to prevent it from contacting mud or dirt which can contaminate the universal joint bearings and shorten the life of the driveline.

After the driveline has been removed from the tractor, place the PTO master shield back in the operating position. *OPS-R-0031*





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Operation Section 4-41

OPERATION

13. MOWER STORAGE

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

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

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



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

🛦 DANG ER

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)

14. TRANSPORTING THE TRACTOR AND IMPLEMENT

Inherent hazards of operating the tractor and implement and the possibility of accidents are not left behind when you finish working in an area. Therefore, the operator must employ good 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*

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



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

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*





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

Use extreme caution and avoid hard applications of the tractor brakes when towing heavy loads at road speeds. Never tow the implement at speeds greater than 20 MPH (32 kph). *OPS-U- 0018*

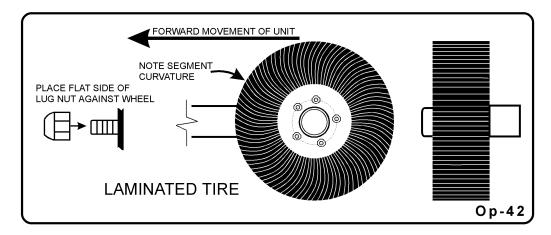


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Operation Section 4-43

14.1 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 such that the rubber segments lay with the ground.



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 - Center Axle

Tire assemblies when mounted on center axle duals should always be within limits listed.

Laminated Tires - Maximum difference between tire diameters on a center axle should be 1/2 inch or less.

Foam Filled Airplane Tires - Maximum difference between tire diameters on a center axle should be 1 inch or less.

When replacing a tire assembly on center axle always check diameters to make sure tires fall within allowed range for maximum tire and wheel life. It may be necessary to move one or more tires from wing axles to remain within size limit.

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Operation Section 4-44

14.2 Transporting on Public Roadways

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

Make sure that a proper size safety tow chain is secured between the tractor, flex arm and mower before entering a public road. Secure the center section at a safe transport height by placing additional stroke control spacers on the center axle cylinder and then lower the mower. Secure the mower wings in the raised position with the transport lock braces. *OPS-R-0036*



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

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

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)

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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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*

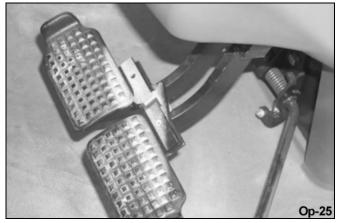


OPERATION

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*



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14.3 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

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

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

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

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Operation Section 4-47

15. TROUBLE SHOOTING GUIDE

Problem	Possible Cause	Remedy
Excessive Vibrations	Check Gearbox bolts. Check for loose nuts on Blade holder and Blades	Tighten if loose. Tighten if loose.
	Check for bent output shaft. If shaft is bent oil will normally leak from the bottom seal.	Replace shaft if bent.
	Check to see if blades are free swinging.	Free blades so they swing
	Check for even wear on each blade tip. Were both blades changed at the same time? Blade Broken. Blade carrier bent.	Weigh blades. Weight should be within 1 oz. Always replace both blades Replace blades, in sets. Replace carrier.
	Blade hub not properly seated on shaft New Blade or bolts matched Drivelines not phased correctly. Implement & tractor yokes must be in line.	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	Fill to level plug. Replace with NLGI 000 lubricant. Remove trash.
	Bearing or gears set up improperly	Consult your dealer.
Gearbox Noisy	Rough gears. Worn bearing.	Run in or change gears. Replace bearing
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.	Replace Seal. Replace oil seal and shaft. Replace or repair shaft. Replace seal. Replace seal or use a sealant on OD of seal.
	Oil level too high. Sand hole in casting. Gasket damaged. Bolts loose.	Drain oil to proper level. Replace castings or gearbox. Replace gasket. Tighten bolts.
Clutch Slips Excessively	Clutch linings badly worn or plates warped. Too much power for clutch.	Repair clutch per maintenance section of manuals. Reduce ground speed and material intake.
	Oil on facings. Friction facings glazed.	Replace facings. Clean with emery cloth.
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Uneven Cut	Excessive ground speed.	Reduce ground speed.
	Blades worn, dull, or bent.	Replace blades.
		(Refer to "Maintenance" section).
	Mower not level side to side.	Adjust. (Refer to "Assembly" section)
	Improper height adjustment.	Adjust Mower height.
		(Refer to "Assembly" section)
	Low tractor tire pressure on	Adjust tire pressure.
	one side	(Refer to your tractor
		operator's manual)
	Turning too fast.	Reduce ground speed when turning.
	Tractor tires push grass down.	Adjust your tractor wheel spacing.
		(Refer to "Operation" section)
	Damaged Mower pan.	Repair or replace as necessary.
Uncut Material	Excessive ground speed	Reduce ground speed.
	RPM too low	Use full PTO speed.
		(Refer to your tractor operator's
		manual)
	Improper blade for direction of cut.	Install blades so rotation is correct.
Poor Shredding	Excessive ground speed.	Raise the front of Mower relative to the rear to hold and circulate material longer. (Refer to the "Operation Section-Setting the Mower-Setting
	Cutting too high.	Deck Height") Reduce ground speed. Lower cutting height. (Refer to the "Operation Section-Setting the Mower- Setting Deck Pitch")
Windrowing or Uneven Material Distribution	Material heavy and lush.	Raise the front of Mower relative to the rear. (Refer to the "Operation Section- Setting the Mower- Setting Deck Height")
	Excessive ground speed	Reduce ground speed.
	Conditions too wet.	Wait for conditions to dry. Reduce ground speed.

OPERATION

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Operation Section 4-49

MAINTENANCE SECTION

Maintenance Section 5-1

MAINTENANCE

HAZARDS WITH MAINTENANCE OF IMPLEMENT



MAINTENANCE

PARTS INFORMATION

PARTS INFORMATION

Tiger 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 Tiger specifications. Non-genuine "will fit" parts do not consistently meet these specifications. The use of "will fit" parts may reduce mower performance, void mower warranties, and present a safety hazard. Use genuine Tiger mower parts for economy and safety. (SPTM-1)

SEE YOUR TIGER 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.



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

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

Lubrication

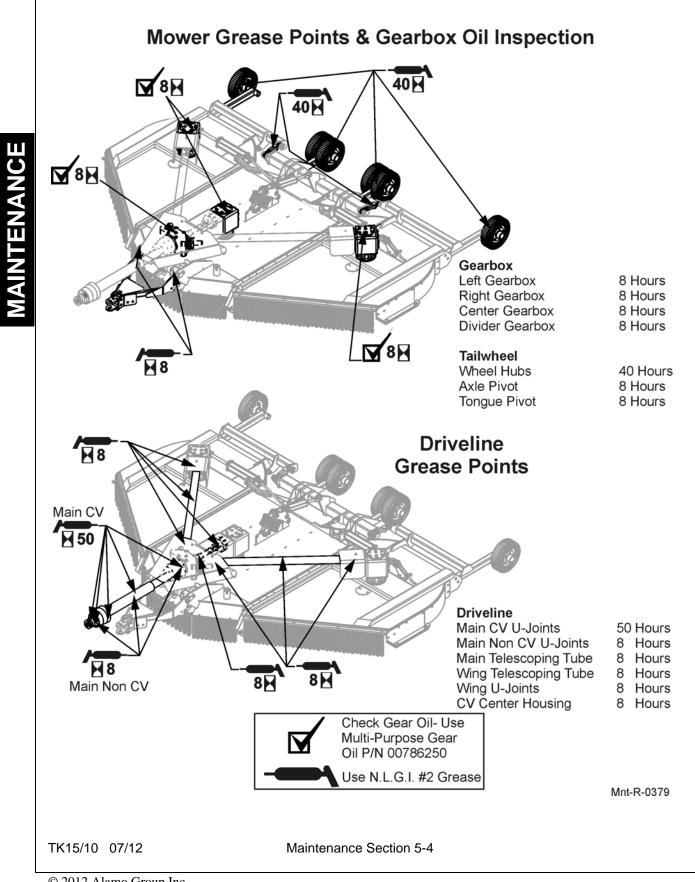
Do not let excess grease collect on or around parts, particularly when operating in sandy areas. The accompanying illustration shows lubrication points. The chart gives the frequency of lubrication in hours, based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication. FIGURE MntP-R-0379.

Use Multi-Purpose Gear Oil P/N 00786250 when required in Gearbox. Use N.L.G.I #2 grease for all locations designated with grease gun. Be sure to clean the fitting thoroughly before using grease gun. Failure to maintain proper lubrication will result in damage to U-joints, gearbox, and/or driveshaft.

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Maintenance Section 5-3

MAINTENANCE



CENTER & WING GEARBOXES

The Gearboxes have been filled with lubricant to the proper Level prior to shipment. However, you should check the oil level on dipstick before operating, and frequently thereafter.

The gearbox should not require additional lubricant unless the box is cracked or a seal is leaking. It is recommended that the oil level dipstick be removed after every 8 to 10 hours of operation and oil added until it is at proper level on dipstick. Filler Plugs are located on top of all Gearboxes. Use Tiger Special Gearbox Lube (P/N 00786250)) with a capacity is 3-3/4 quarts. FIGURE MntP-R-0150.



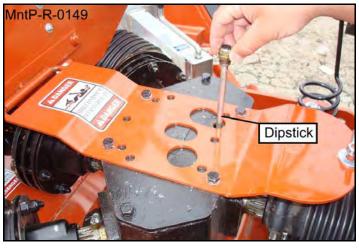
DIVIDER GEARBOX

It is recommended that the oil level dipstick be removed after every 8 to 10 hours of operation and oil added until it is at proper level on dipstick. FIGURE MntP-R-0149



Do not over-fill. If gearboxes are filled above the Dipstick level, Pressure under working conditions may cause grease seals to leak.

Use Tiger Special Gearbox Lube (P/N 00786250) with a capacity of 3 quarts



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Maintenance Section 5-5

GEARBOX LUBRICANT REPLACEMENT

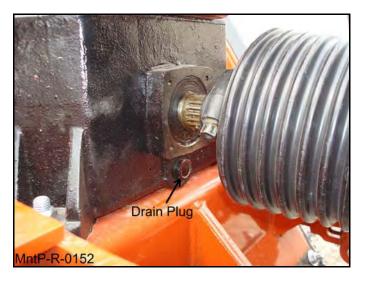
Over a period of time gearbox lubricant becomes contaminated with moisture and fine metal particles wearing off from gears and bearings. It is recommended that lubricant be replaced every 1500 hours use or 3 years. whichever comes first. Drain ports are provided in gearboxes as shown in Figures Mnt-R-0151 and Mnt-R-0152.

NOTE: Always tighten plug securely after lubricant change. Loss of plug will result in gearbox failure.

CENTER & WING GEARBOX



DIVIDER GEARBOX



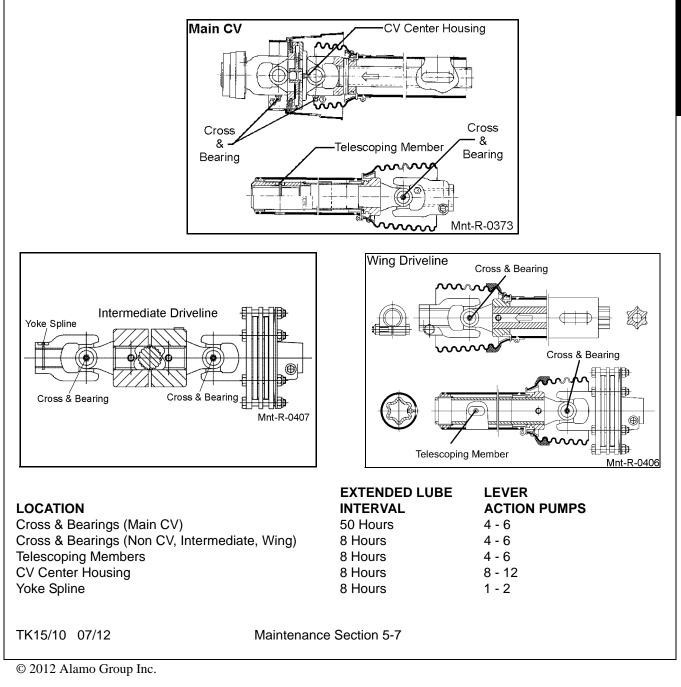
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Maintenance Section 5-6

DRIVELINES

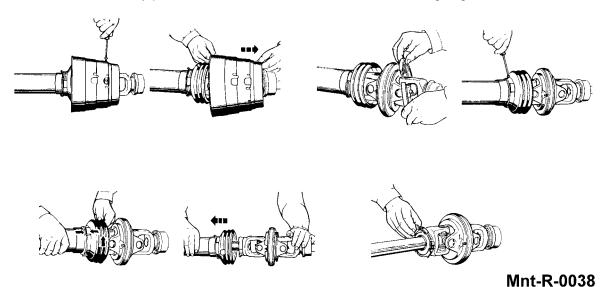
The Drivelines and U-Joints should be inspected each morning before the Cutter is started. MntP-R-0006 and Mnt-R-0031.

The U-Joint and CV Joint on the Driveline undergo extreme forces when the unit is turning or when the Wings are being raised. It is important that the U-Joints and CV Joint be greased each day before the unit is started. The U-Joints are located at each end of the Center and Wing Drivelines. The CV Joint is located at the end of the Main Driveline. The U-Joint and CV Joint assemblies are accessible by rotating the Driveline Safety Shield until the hole in the Shield matches up with the Grease Fitting. Use #2 Bearing Grease for lubrication. Inspect the U-Joint for wear by holding the shaft on one side of the U-Joint while trying to rotate the shaft on the other side of the U-Joint. If there is noticeable movement in the Driveline replace the U-joint before it causes severe damage to the Driveline.

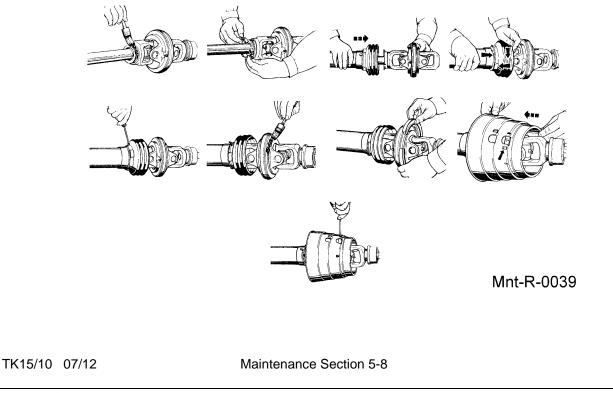


MAIN CV DRIVELINE SAFETY SHIELD

To remove the outer CV cone, remove the locking screws from shield cone. Remove cone over yoke. Figure Mnt-R-0038 Remove bearing ring and remove the locking screws from inner shield cone. Figure Mnt-R-0038. Turn inner cone to assembly position and remove half shield. Remove bearing ring. FIGURE MNT-R-0038.

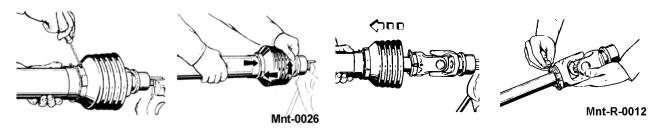


To assemble outer CV driveline, grease yoke groove and inner profile tube. Attach bearing ring on groove with recesses facing profile tube. FIGURE MNT-R-0039. Slide on half shield with cone. Turn cone until it engages correctly. FIGURE MNT-R-0039. Tighten locking screws. Grease bearing groove in double yoke. FIGURE MNT-R-0039. Insert bearing ring. Slide guard cone for double yoke over cam from the connecting end. Make sure holes for screws are visible. FIGURE MNT-R-0039. Tighten locking screws. FIGURE MNT-R-0039.



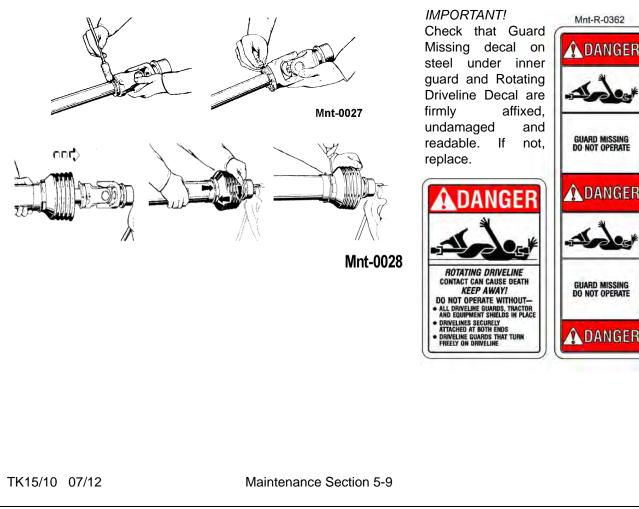
CAT IV WING DRIVELINE SHIELDS

To remove the main inner driveline shield, Remove the locking screws. Align the bearing tabs with the cone pockets. FIGURE Mnt-0026. Remove the half-guard and remove the bearing ring. FIGURE Mnt-R-0012.



Inspect the driveline shield for worn areas or cracks. If the shield has any dents or cracks, replace the Shield. While the Shields are off, examine the Driveline for signs of abnormal wear, bent or twisted shafts, or cracks in the shafts or tubes. Check to see that the Drivelines telescope easily. If the Drivelines do not telescope properly or show signs of abnormal wear, the shaft should be repaired or replaced.

To assemble the main inner driveline shield, grease the yoke groove and inner profile tube. Attach the bearing ring in groove with recesses facing profile tube. FIGURE Mnt-0027. Slide on the half shield. Turn the cone until it engages correctly. Install locking screws. FIGURE Mnt-0028.



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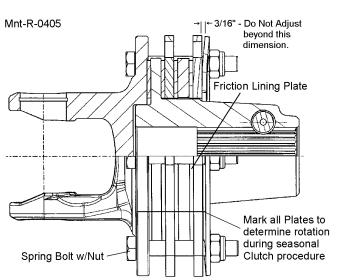
IMPORTANT: Scan this QR Code with your smart phone to link to the ADMA Driveline Safety Manual for more information on the safe use of a driveline during normal operation and maintenance. Or type in your internet browser the following web address: www.algqr.com/dme Ops-0009-MISC



SEASONAL CLUTCH MAINTENANCE

It is important that the clutches slip when an obstacle or load heavier than the clutch setting is encountered. Therefore, if the machine sits outside longer than 30 days and is exposed to rain and/or humid air it is important to make sure that the clutch lining plates are not rusted/frozen together. Before using the cutter use the following procedure to make sure the clutch will slip and give the overload protection required.

- Loosen nuts (Figure Mnt-R-0405) on springs until the spring can freely rotate, yet remain secure on bolts.
- 2. Attach cutter to tractor and start the tractor. Set the engine speed at 1200 RPM.
- 3. Mark outer plates as shown in **Figure Mnt-R-0405**.
- 4. Engage the PTO (approximately one second) and then quickly disengage it. The friction lining plates should break loose (check the mark).
- 5. Turn tractor off and tighten nuts on the disc spring until belleville spring is flat, then loosen each nut 3 turns.



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Maintenance Section 5-10

BLADE SERVICING

Inspect blades before each use to determine that they are properly installed and in good condition. Replace any blade that is bent, excessively nicked, worn, or has any other damage. Small nicks can be ground out when sharpening.

AWARNING

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

A DANG ER

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

- Manually wiggle the blade carriers to check for any looseness.
- Retighten any loose parts.
- Recheck torque every 50 hours.

Important

Operating with loose blade hardware will damage the blade holder and blades. Whenever the blades have been removed or replaced, the hardware must be retightened after the first eight hours of operation. On new units check blade hardware and the blade nut torque after first 8 hours.

Important di

Operating with loose blade holder will damage the blade holder and output shaft, two initial tightenings are required. Retighten after one hour and again after the day of operation. In severe cutting conditions or commercial use, a daily inspection is required.

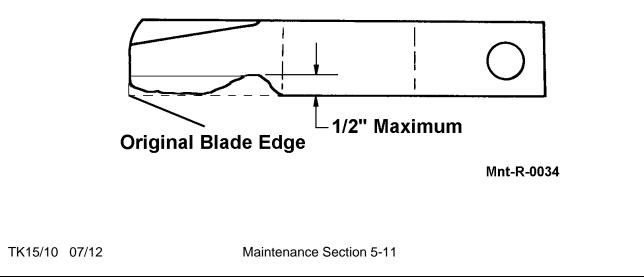
Important

To help prevent structural damage caused by loose hardware, tighten gear case hardware as specified. Check torque after first 8 hours of use and every 50 hours thereafter.

🛦 DANG ER

Inspect Blades daily for abnormal wear. If Blades have a notch worn into the leading edge at the lower bend more than a 1/2" DEEP (due to running in gravel and/or the ground), REPLACE BOTH BLADES ON THAT CARRIER IMMEDIATELY. Failure to replace such abnormally worn blades may lead to catastrophic failure of the blade and ejection of the broken part with tremendous force which may cause bodily injury or death.

NOTE: Replace Blades in pairs after no more than 1/2" notch wear!



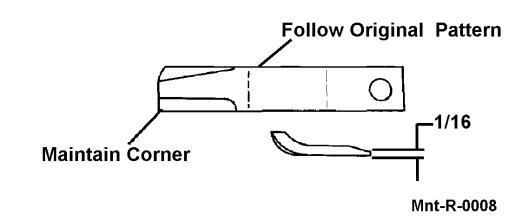
BLADE SHARPENING

Always sharpen both blades at same time to maintain balance. Follow original sharpening pattern as shown in FIGURE Mnt-R-0008. Always sharpen blades by grinding. DO NOT heat and pound out edge. Do not sharpen blade to a razor edge, but leave a 1/16" blunt edge. Do not sharpen back side of blade.

IMPORTANT: When sharpening blades, grind each blade the same amount to maintain balance. The difference in blade weights should not exceed 1 ounce. Unbalanced blades will cause excessive vibration which can damage gear box bearings. Vibration may also cause structural cracks in cutter housing.

AWARNING

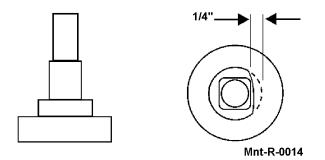
Never work under equipment supported by a hydraulic device because it may drop if the control is actuated (even with the engine stopped) or in the event of hose failure, etc. Always use a secure support for equipment which must be serviced while in the raised position.



NOTE: Replace Blades in pairs after no more than 1/2" notch wear!

BLADE REMOVAL

To remove blades for sharpening or replacement, remove the cover plate on deck of cutter near gear box. Remove lock nut from blade bolt (left hand threaded bolt). *NOTE: Inspect lock nut after removal and replace if threads are damaged.* Always replace nut when replacing blade bolt. When installing blades be sure and check blade bolt pivot diameter for wear. Replace bolt if worn more than 1/4 inch at any point. See Figure Mnt-R-0014. Install blade bolts with partially worn side of bolt either toward or away from center. Tighten lock nut to 600 ft. lbs.



AWARNING

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, and the cutter blocked in the raised position.

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Maintenance Section 5-12

Blade Bolt Inspection

Inspect Blade Bolt Head daily for wear as followed:

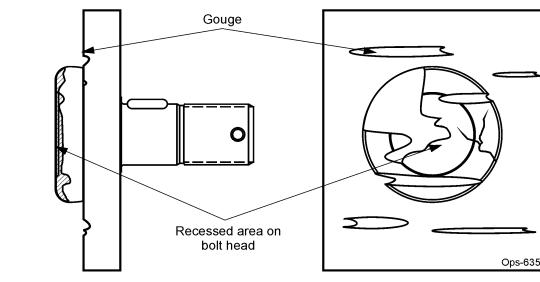
Excessive Blade Bolt Wear

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.



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



🛕 DANG ER

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.

BLADE CARRIER REMOVAL

Remove cotter pin and loosen slotted nut on gear box 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 gear box shaft. If gear puller is not available use long bar inserted through blade bolt access hole with end against rotor bar. Strike opposite end of bar with sledge hammer. Rotate blade carrier 180 degrees and repeat process.

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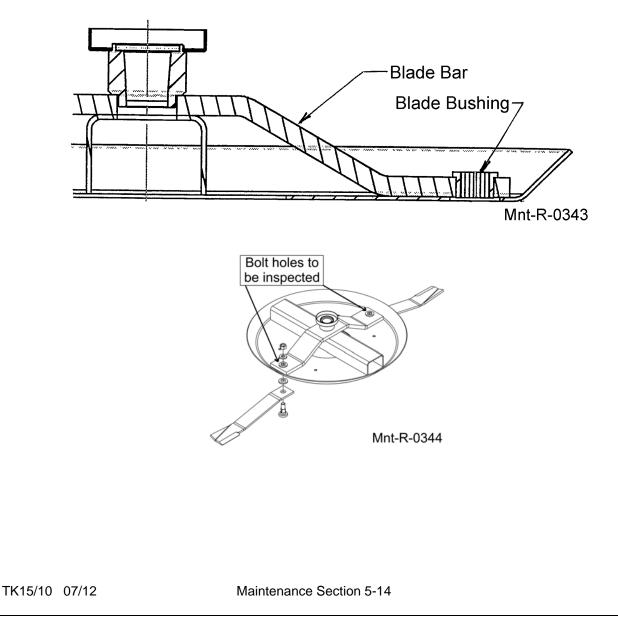
Maintenance Section 5-13

BLADE CARRIER INSPECTION

Blade bolt fit into carrier bushings should be checked every time blades are changed. The blade bolt should fit into carrier bushings as a snug slip fit. If the blade bolt fit appears to be loose or sloppy, measure the square hole in bushing. If the bottom of the square hole is 1/16" or greater than the square shoulder of the new blade bolt the bushings should be replaced. Bushings can be removed by cutting bushing head where it is welded to carrier bar. Once head is removed bushing can be pressed out of bar. Clean and grind top of blade bar so new bushing can be installed and welded. Bushing should be pressed into bar as far as possible. Use low hydrogen rod to weld bushing in place.

AWARNING

Failure to replace a worn blade carrier bushing as described above may lead to catastrophic failure of the blade, blade bolt, and/or blade bolt nut resulting in the ejection of the broken parts out from under the mower at tremendous speed and force which could result in serious bodily injury or death.



BLADE CARRIER INSTALLATION

Clean the splines on both the blade carrier and output shaft. Position carrier on the gear box output shaft and install flat washer and 1" hex nut. Tighten nut holding blade carrier to minimum 600 ft. pounds, 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. pounds. Install and spread cotter pin.

NOTE: After a few hours of operation always recheck blade carrier retaining nut torque.

Important Operating the mower with a loose blade pan or holder can damage the taper connection on the gearbox output shaft. To ensure proper seating between the blade holder and output shaft check and tighten the retaining nut after the first day of operation. Recheck the blade carrier attachment each morning before operating. Grasp the carrier firmly with both hands and try to push and pull the carrier with one hand while pulling and pushing with the other hand to try to rock or oscillate the blade carrier. If the carrier is loose retighten the retaining nut before operating the mower.

AWARNING

Avoid personal injury. Do not work under cutter without support blocks to keep frame from falling.

SLIP CLUTCHES

A slip clutch is incorporated on each outboard driveline. The slip clutches are designed to slip, absorb the shock load, and protect the drive-ins of the mower.

After the first hour of operation, the slip clutches should be checked for overheating. After this first check, inspect weekly or anytime there is overheating. To adjust the slip clutch, tighten the spring bolts 1/8 (maximum) turn at a time. See Figure MntP-R-0405 for minimum dimension. DO NOT tighten springs beyond 3/16" gap between pressure plate and spring.

Each slip clutch should be checked periodically and adjusted to compensate for wear. The lining plates are 1/ 8" thick when new. Replace after 1/32" wear. If the mower has been idle for an extended period of time, or in wet weather, before operating check to be sure the friction lining plates are not rusted/frozen together. Should this occur refer to the procedure described in the "Seasonal Clutch Maintenance" section on the next page.

There are four friction lining plates in the slip clutch. These should be checked weekly for oil or grease, wear, and moisture which could cause corrosion on the drive plates.

WHEEL HUB ASSEMBLY

The Wheel Hub Assemblies need to be lubricated on a weekly basis. FIGURE MntP-R-0032.



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Maintenance Section 5-15

TIRES AND WHEELS

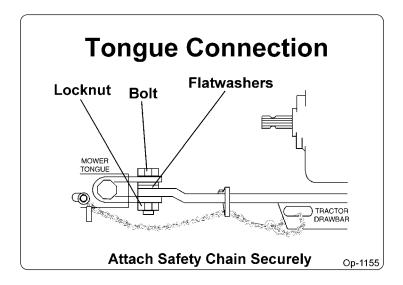
Before working on any tires and wheels make certain the Cutter is jacked up high enough and securely supported. When installing laminated or airplane tires, be sure the flat side of the lug nut is against the Wheel.

When installing Sectional Tires and Wheels note the direction of travel and the curvature of rubber segments in the tire (See Assembly Section). Do not exceed 15 M.P.H. on Sectional Tires. When removing Airplane Tires, let all of the air out of the tire before removing lug nuts or wheel bolts or nuts. Remove valve core to make certain that there is no air pressure left in tube before separating wheel halves to dismount tires. DO NOT LOOSEN WHEEL CLAMP BOLTS BEFORE PRESSURE IS REMOVED FROM TUBE AND TIRE TO PRE-VENT EXPLOSIVE SEPARATION OF WHEEL HALVES WITH POSSIBLE SERIOUS BODILY INJURY. Do not exceed 15 MPH on Airplane or Rib Implement Tires.

Maximum airplane tire inflation pressure is 50 PSI, minimum inflation pressure is 20 PSI. Inflate ribbed implement tires to manufacturer rated PSI as shown on the tire sidewall.

Tongue

The Tongue Hitch Pins attach the Tongue to the Center Section and should be checked for signs of wear or cracking. Replace as needed. The Drawbar 1" Bolt fastens the mower to the tractor Drawbar. When the mower is unhitched and this 1" Bolt is removed, examine for signs of cracking or wear. Replace the Drawbar 1" Bolt at first sign of either problem. FIGURE Op-1155

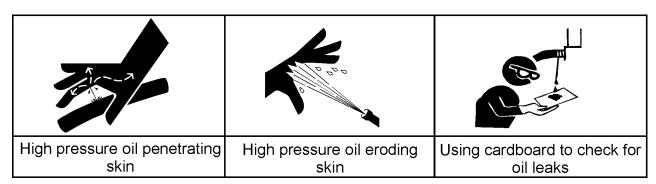


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Maintenance Section 5-16

MAINTENANCE

HIGH PRESSURE OIL LEAK HAZARD



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.
- Hydraulic fluid may cause gangrene if not surgically removed immediately by a doctor familiar with this form of injury. *PN HP01*

HYDRAULIC HOSES

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

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

MAXIMUM ALLOWABLE OPERATING OIL TEMPERATURE

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

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Maintenance Section 5-17

Flex Wing Hydraulic Cylinder Replacement Instructions

Implement Cylinders Removal and Replacement

Follow these Steps:

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

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Maintenance Section 5-18

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.

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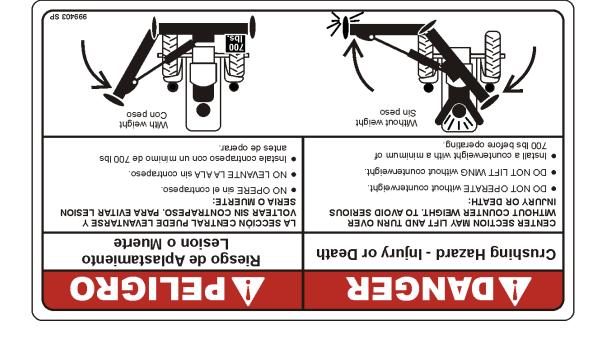
Maintenance Section 5-19

MAINTENANCE

AMERICAN					rican fasten ounds (New		s).*
Bolt Head Markings	RENCH	(IN.)	DIAMETER "B" AND EAD SIZE	SAE GRADE 2	S/ GRA	C.4.	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)
SAE Grade 2	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	35 (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)
SAE Grade 5	7/8	9/16	- 18 UNF	79 (107)	122	1. A. S.	172 (233)
V 1/	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)
Dianeter B	-5/16	7/8	- 9 UNC	166 (225)	430	(583)	606 (821)
Dianeae	-5/16	7/8	- 14 UNF	184 (249)	474	(642)	668 (905)
	1-1/2	1	- B'UNC	250 (339)	644 ((873)	909 (1232)
	1-1/2	1	12 UNF	274 (371)	705	(955)	995 (1348)
SAE Grade 8	1-1/2	- P-	14 UNF	280 (379)	721	977)	1019 (1381)
	-11/16	1-1/	8 - 7 UNC	354 (480)	795 (1077)	1288(1745)
	-11/16	1-1/8	8 - 12 UNF	397 (538)	890 (1206)	1444 (1957)
· · ·	1-7/8	1-17	4 - 7 UNC	500 (678)	1120	(1518)	1817 (2462)
Bolt "B"	1-7/8	1-1/-	4 - 12 UNF	553 (749)	1241	(1682)	2013 (2728)
Diameter 8"	-1/16	1-3/	8 - 6 UNC	655 (887)	1470	(1992)	2382 (3228)
	-1/16	1-3/8	3 - 12 UNF	746 (1011)	1672	2266)	2712 (3675)
	2-1/4	1-1/	2 - 6 UNC	870 (1179)	1950	(2642)	3161 (4283)
All Capscrews	2-1/4	1-1/2 - 12 UNF		979 (1327) 2194 ((2973) 3557 (482	
METRIC			nmended t		Metric faste ot Pounds (N		eters).*
L amater		WRENCH	BOLT DIA.	ASTM	ASTM	ASTM	ASTM
00	1.1	(mm) "A"	(mm) "B"	4.6	8.8	9.8	10.9
		8	5	1.8 (2.4)		5.1 (6.9)	6.5 (8.8)
ench		10	6	3 (4)		8.7 (12)	11.1 (15)
"A" (8.8)	1.10	13	8	7.3 (10)		21.1 (29) 42 (57)	27 (37) 53 (72)
		18	12	25 (34)	74 (100)	73 (99)	93 (126)
 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. 		21	14	40 (54)	118 (160)	116 (157)	148 (201)
		24	16	62 (84)	167 (226)	181 (245)	230 (312)
		30 33	20	122 (165)	325 (440) 443 (600)		449 (608) 611 (828)
		33	22	211 (286)	443 (600) 563 (763)		778 (1054)
		41	27		821 (1112)		1138 (1542
		46	30	418 (566)	1119 (1516)		1547 (2096

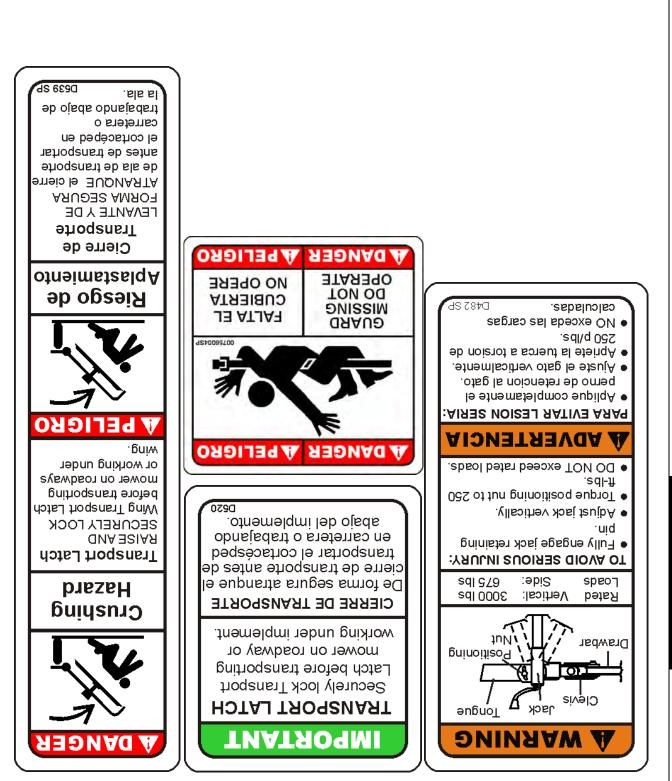
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Maintenance Section 5-20



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Sección de Seguridad 1-27



Sección de Seguridad 1-26

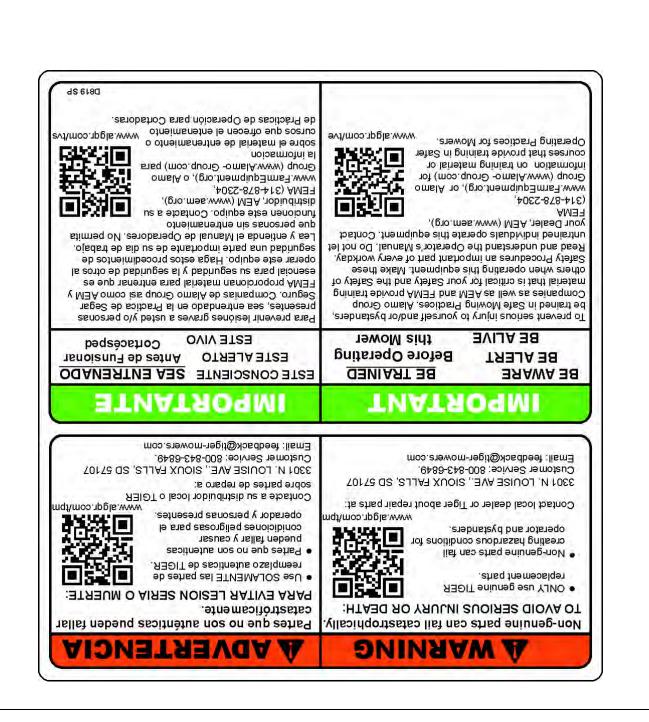
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TK15/10 08/12

SEGURIDAD







SEGURIDAD

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Sección de Seguridad 1-23





Sección de Seguridad 1-22

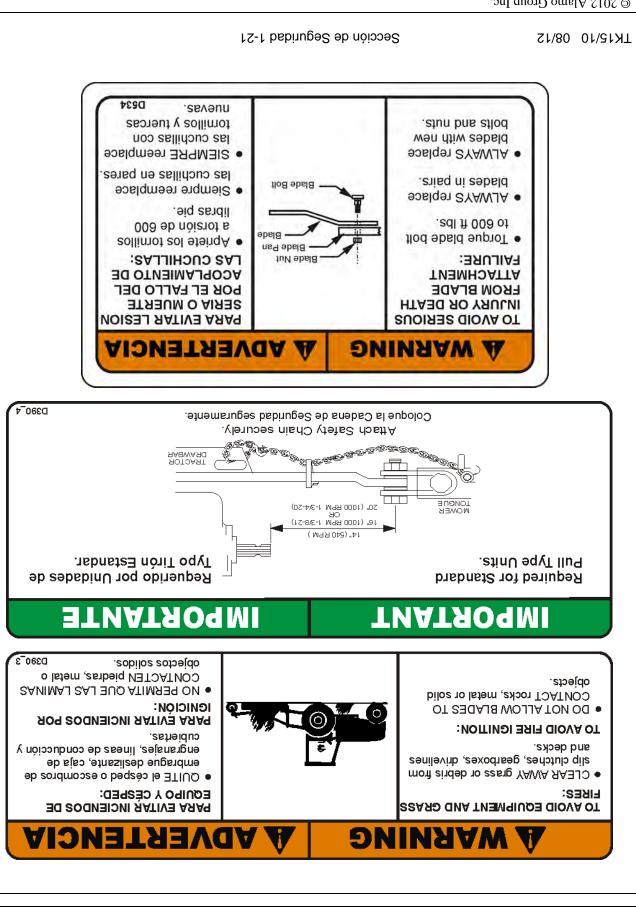
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pribleidS to bject Shielding

GAGIRIDAD



GAGIRIDAD



Sección de Seguridad 1-20

.eupiomer

DE REMOLQUE:

en vueltas y en la pobres condiciones de

REDUZCA LA VELOCIDAD en indinas,

NO remolque en velocidades arriba de

D390_2

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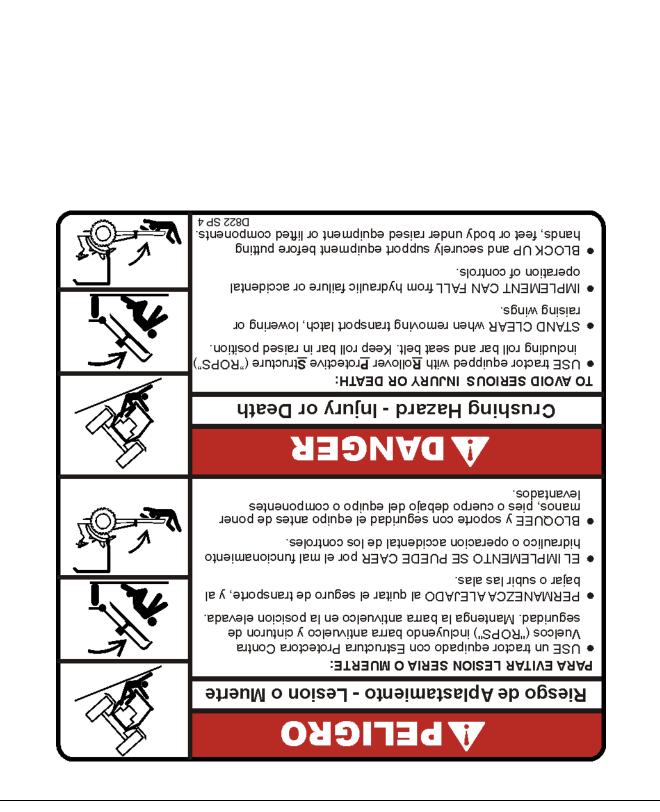
SEGURIDAD

and in poor towing conditions.

REDUCE SPEED on inclines, in turns

DO NOT tow at speeds over 20 mph.

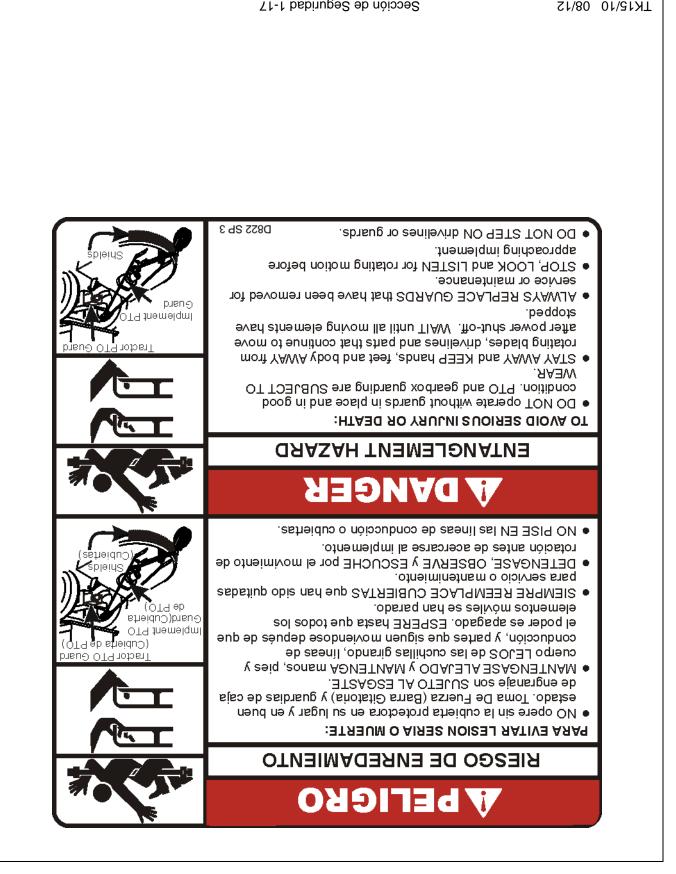




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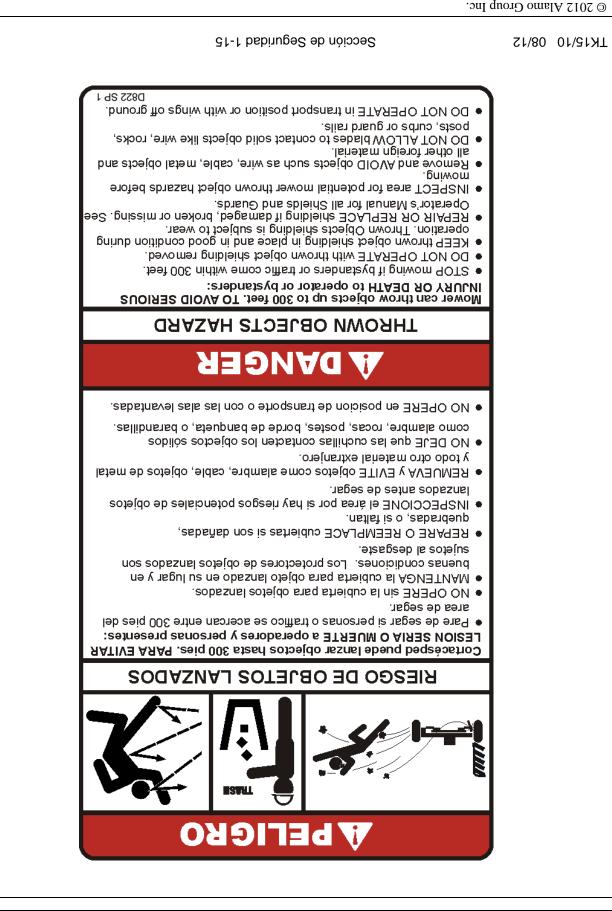
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Sección de Seguridad 1-18



Sección de Seguridad





NFORMACIÓN DE PARTES

INFORMACIÓN DE PARTES

Cortacéspedes de TIGER usan balanceado y componentes del sistema de igualdad para los portadores de la lámina, las láminas, los cortador-ejes, los cuchillos, las suspensiones del cuchillo, los rodillos, los componentes del engranajes de conducción y los cojinetes. Estas piezas se hacen y se prueban a las especificaciones de TIGER. Partes de No-genuino "caber" piezas no resuelven constantemente estas vacías del cortacéspedes y presentar un peligro de seguridad. ¡Utilice las piezas genuinas de cortacéspedes, garantías del TIGER para la economía y la seguridad! (sprm-1 sp)

YEA A SU VENDEDOR TIGER

Manuales de Partes y Operador



www.algqr.com/tpm

NOTA: Si necessita 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

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Sección de Seguridad 1-14

RIESGOS CON EL MANTENIMIENTO DEL IMPLEMENTO



АІЗИЭТЯЭУДА SERVICIO, REPARACIÓN O MANTENIMIENTO APROPIADO.

ANTES DE REALIZAR TAREAS DE SERVICIO, REPARACIÓN Y MANTENIMIENTO DEL IMPLEMENTO:

ASEGURE EL EQUIPO PARA EL SERVICIO

COLOQUE LOS RIESGOS POTENCIALES DE ENERGÍA; piezas giratorias, componentes levantados, presión hidráulica.
 APRGUE EL MOTOR Y EL PTO, coloque el treno 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.

- opamud o obnald
- our construction de la substruction CIERRE FIRMEMENTE Y TRABE las alas del implemento levantado. TRABE LA LENGUA DEL IMPLEMENTO con bloques grandes y el gato de remolque. NO gateé o trabajar debajo del implemento solo sostenido por el gato de remolque. EMPUDE y JALE la palanca del Cilindro Hidráulico Remoto para liberar la presión hidráulica. DESCORTE la manueras birtávilicas de implemento de tractor
 - •
- DESCONECTE las mangueras hidráulicas de implemento del tractor.
 DESCONECTE la línea de conducción del IMPLEMENTO del EJE DE PTO del tractor.
 DESCONECTE la línea de conducción del IMPLEMENTO del EJE DE PTO del tractor.
 USE GEFES DE SEGURIDED y GUENTES PROTECTORES y siga todos los PROCEDIMIENTOS DE SEGURIDED al realizar
- tareas de servicio, reparación y mantenimiento sobre el implemento:
- EVITE EL CONTACTO con tanques de aceite hidráulico, bombas, motores, válvulas y superficies de conexión de mangueras • Siempre USE GUANTES y GAFAS DE SEGURIDAD al reparar componentes en caliente
- 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.
- ASEGURESE de estar bien apoyado sobre superficies sólidas planas al subirse al implemento para realizar tareas.
- NO modifique o altere el implemento, las funciones o componentes. **O** cambie ninguna calibración hidráulica de fábrica para evitar fallas de los componentes o equipos. SIGA las instrucciones del fabricante sobre cómo manipular los lubricantes, solventes, limpiadores y otros agentes químicos. •
- NO SUELDE o repare los componentes de la cortadora. Esto puede causar vibraciones y fallas de los componentes que se
- desprendan de la cortadora. REALICE LAS TAREAS DE SERVICIO, REPARACIÓN, LUBRICACIÓN Y MANTENIMIENTO QUE SE DESCRIBEN EN LA SECCIÓN DE MANTENIMIENTO DEL IMPLEMENTO:
- INSPECTIONE 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.
 LUBRIQUE la unidad tal como se especifica en el cronograma de lubricación.

Las terminades de baterias y los accesorios relacionados contienen plomo y componentes de plomo, que el estado de California ha determinado son químicos que causan câncer, defectos de nacimiento u otros daños reproductivos. PN HMO1 SP quimicos que el estado de California ha determinado que causan cáncer, defectos de nacimiento y otros daños reproductivos. El escape del motor, al igual que algunos de sus componentes, y determinados elementos del vehículo contienen o emiten agentes

- NUNCA lubrique, ajuste o quite material mientras el equipo está en funcionamiento o movimiento.
 AUUSTE todas las tuercas y pernos tal como se especifica.
 INSPECCIÓN DE CUCHILLAS:
- REEMPLACE las cuchillas y que vuelen trozos de cuchillas. NO enderece, suelde os suelde con superficies rígidas.
 EVITE tallas de las cuchillas y que vuelen trozos de cuchillas. NO enderece, suelde o suelde con superficies rígidas.
 MANTENGA en su lugar y en nuen estado todos los deflectores, protectores de cadena, protectores de cacio, cubiertas de caja de enginanajes, cubiertas integrales de PTO, bandas, faldones laterales y zapatas antideslizantes.
 REMPLACE cualquier protector, cubierta o dispositivo de seguridad faltante, roto o gastado.
 REMPLACE cualquier protector, cubierta o dispositivo de seguridad faltante, roto o gastado.
 REEMPLACE cualquier protector, cubierta o dispositivo de seguridad faltante, roto o gastado.
- Sección de Seguridad 13 TK15/10 08/12

SEGURIDAD

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os los cables de	ento en las curvas. anayor distancia de tod	məlqmi ləb nəvisv elə nəq nu o (səiq 01) sottəm	LIZAS DE ADVERTEN del espacio necesario alas elevadas a 3 ciones elevadas. Pu	ENDA LAS BAI 34 EN CUENTA 64 todas Ias	• ENCI MANTEN			
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.								
	AL REMOLCAR O TRANSPORTAR EL EQUIPO: AL REMOLCAR O TRANSPORTAR EL EQUIPO:							
i se puede operar a	s las curvas para determinar s	e bebioolev el etnemetrel	obnetnemus oqiupe le		• bON			
ONERRENO	re las 20 millas por hora. OPERAR EN CARRETER	el aumento de velocidad segura que no supe MXXIM AMIXÀM	O: s de DETENCIÓN cor sidad de transporte má	S DE FRENADO IE a velocidade: rve las distancia RMINE la veloci RMINE la veloci RMINE la velocia	PRUEBA: PSdO • Obse • DETE			
АЯАЯ ОТИЯ	 ELEVE LAS ALAS e INSTALE TRABAS DE TRANSPORTE o passadores. AJUSTE LA CADENA DE SEGURIDAD del implemento al tractor. QUITE todo material cortado que se acumule en la plataforma de la cortadora. 							
	 Condiciones de conducción y trânsito. ELEVE LA CORTADORA E INSTALE topes o pasadores de transporte cilíndricos en el eje central ELEVE LA CORTADORA e INSTALE topes o pasadores de transporte cilíndricos en el eje central 							
eiae para	 en el asiento del tractor. AJUSTE su posición de conducción, los espejos y el transporte del implemento para tener una visión clara para 							
	 Visibilidad detrás de la unidad. VERIFIQUE que no haya impedimentos a la visión mientras conduce, en el tractor, la cabina o el implemento, sentado 							
da operación y sdecuadas.	s sonamiento y las condiciones de advertencia para la adecua	segurarse el correcto func	TOR: ión y los frenos para a s EL AVISO DE SMV , l	ION DEL TRAC FIQUE la direcc FIQUE LLEVAR	• AEBI • AEBI INSPECC			
	 SIGA todas las reglamentaciones de tránsito locales. SIGA todas las reglamentaciones de tránsito locales. SÓLO TRANSPORTE en el tractor con el mecanismo ROPS (antivuelco) en posición elevada. SÓLO TRANSPORTE en el tractor con el mecanismo ROPS (antivuelco) en posición elevada. MENTENGA EL 20% del peso del tractor en las ruedas frontales para mantener la dirección en forma segura. MANTENGA EL 20% del peso del tractor en las ruedas frontales para mantener la dirección en forma segura. 							
trol del equipo. avorables.	 MANTENCA 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. 							
טאואא במטויטס:								
	implemento	pérdida de control		seziled y (ojuaj			
transporte	seguridad – Tractor a		pérdida de	otnaimivo	u əp			
Coloque las trabas de	remolque de Use la cadena de	Peligro de velocidad	Peligro de Detención por	oluoìnay) eñales de				
			атяодгияя	IT NE SO	BSEIR			
	SEGURIDAD							

RIESGOS ELECTRICOS Y DE FUEGO



PELIGRO TRABAJAR CERCA DE CABLES ELÉCTRICOS, LÍNEAS DE GAS Y DE SERVICIOS: TRABAJAR CERCA DE CABLES ELÉCTRICOS, LÍNEAS DE GAS Y DE SERVICIOS:

- INSPECCIONE el área de corte para que no intertiera 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 &11 v al 1-800-358-0808 para identificar cables de servicios subterráneos.
- LLAME AL 811 y al 1-800-258-0808 para identificar cables de servicios subterráneos.
 PLILAS DE PREVENCIÓN DE INCENDIOS durante la operación, reparación y servicio de la cortador

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
- MO CONDUZCA sobre residuos encendidos o en áreas recientemente quemadas
- EVITE LA FORMACIÓN DE CHISPAS al no permitir que la hoja de la cortadora entre en contacto con objetos sólidos como metal o roca.
- AJUSTE LOS EMBRAGUES DESLIZANTES para evitar el deslizamiento excesivo y el calentamiento de la placa del embrague.
- LIMPIE todo resto de hierba o residuo acumulado alrededor de las líneas de conducción de la cortadora, los embragues deslizantes y cajas de cambios.

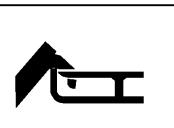
Sección de Seguridad 11

APAGUE EL MOTOR al cargar combustible. PN EF01 SP

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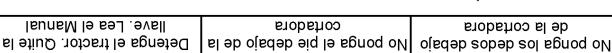
GAGIRIDAD

RIESGO DEL CONTACTO A LAS CUCHILLAS DE CORTADORA





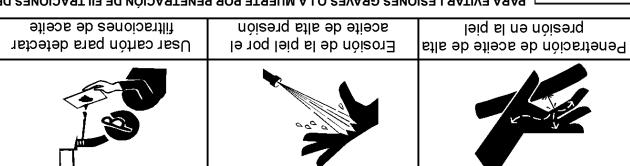




O LA MUERTE POR CONTACTO CON LA CUCHILLA: 🗗 РЕГІСВО RANTÉNGASE LEJOS DE LAS CUCHILLAS GIRATORIAS PARA EVITAR LESIONES GRAVES

- de conducción y partes hasta que todos los elementos móviles se hayan detenido. MANTÉNGESE LEJOS y NO ECERQUE LES MENOS, LOS PIES y EL CUERPO a las cuchillas giratorias, líneas
- NO ponga las manos o los pies debajo de las platatormas de la cortadora
- DETENGE las CUCHILLEAS giratorias antes de elevar la platatorma de la cortadora o las alas
- para asegurarse de que se haya detenido todo el movimiento giratorio. PN MB01 SP DETENGE la cortadora, EXEMÍNELE Y PRESTE ATENCIÓN A LOS SONIDOS antes de acercarse a la cortadora

RIESGO DE FILTRACION DE ACEITE HIDRÁULICO DE ALTA PRESIÓN



М РЕГІЄВО PARA EVITAR LESIONES GRAVES O LA MUERTE POR PENETRACIÓN DE FILTRACIONES DE

 •NO OPERE el equipo con filtraciones de aceite o combustible. **ACEITE HIDRAULICO DE ALTA PRESIÓN:**

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

LAS FILTRACIONES DE LÍQUIDO DE ALTA PRESIÓN PUEDEN NO SER VISIBLES.

AL VERIFICAR FILTRACIONES HIDRÁULICAS Y TRABAJAR CERCA DE LOS SISTEMAS HIDRÁULICOS:

- SIEMPRE USE gafas de seguridad y guantes impenetrables.
- USE papel o cartón para verificar si hay filtraciones.
- NO USE las manos o partes del cuerpo para detectar filtraciones.
- El fluido hidráulico puede causar gangrena si no es extirpado quirúrgicamente de inmediato por un médico MANTENGA las manos y el cuerpo LEJOS de los orificios de clavijas y boquillas de eyección de fluido hidráulico.

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especializado en este tipo de lesiones. PN HP01 SP

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RIESGO DE ENREDO POR EL PTO

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

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

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

- para asegurarse de que se haya detenido todo el movimiento giratorio. DETENCE la cortadora, EXEMINELE Y PRESTE ATENCIÓN A LOS SONIDOS antes de acercarse a la cortadora
- LOS ELEMENTOS GIRATORIOS SIGUEN ROTANDO una vez apagada la PTO.

PROTECCION DE LA PTO:

:OTNAMAJAN SAVES O LA MUERTE POR ENREDO AL OPERAR EL IMPLEMENTO:

- entrada **MENTENCE** instalados los protectores, las cubiertas integrales de las líneas de conducción y las cubiertas de
- NO OPERE la cortadora si los protectores o cubiertas no están bien colocados o faltan.
- REEMPLACE O REPÀRELOS si faltan, están dañados o rotos ٠
- 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:

- .otnemelqmi leb VERIFIQUE que la línea de conducción tenga el largo adecuado entre el eje de PTO y el eje de la caja de cambios
- Las líneas de conducción demasiado cortas se pueden soltar o romper.
- Las líneas de conducción demasiado largas pueden tocar el suelo. •
- Un ensamblaje 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.

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

NO UTILICE UN ADAPTADOR DE PTO.

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

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Sección de Seguridad 1-9

Riesgo de atropello por caída del operador	Riesgo de atropello por caída del operador	Riesgo de atropello del operador
	σ	SGO DE ATROPELLO

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

 USE tractores equipados con SISTEMA ANTIVUELCO (ROPS) y CINTURONES DE SEGURIDAD para las operaciones de corte.

- MANTENGA EL SISTEMA ROPS trabado en posición vertical.
- SÓLO ENCIENDA el tractor sentado en el asiento del tractor.
- SIEMPRE ABRÓCHESE el cinturón de seguridad al operar el tractor y los equipos.
- SÓLO OPERE el tractor y el equipo sentado en el asiento del tractor.
- NUNCA LLEVE A OTRAS PERSONAS en el tractor o implemento.

:ROTCART DEL TRACTOR:

🚺 БЕГІЄВО

- 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

Sección de Seguridad 1-8

todas las partes móviles y quite la llave antes de bajarse del tractor. PN ROO1 SP

SEGURIDAD

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RIESGO DE OBJECTOS LANZADOS Continuado

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

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 γ 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, guardarrailes 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, guardarrailes de metal y estructuras de cemento:
- 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 REEMPLÀCELO 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. DETENCE EL PTO Y EL MOTOR del tractor.
- INSPECCIONE la cortadora para detectar la fuente de la vibración
- 3. REEMPLACE toda parte dañada o las CUCHILLAS dobladas o dañadas. PN TOO1-X SP

Sección de Seguridad 1-7

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GAGIRIDAD

	VANIBAS	Karly -		
No permita que las cuchillas entren en contacto con objetos sólidos	Inspeccione el área. Quite los objetos extraños	Objetos Ianzados desde cortadora elevada	Dbjetos Ianzados desde cortadora elevada	Peligro de objetos anzados por la cortadora

CONDICIONES ADVERSAS. **М** РЕГІВКО

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

- : SOGALOARA
- NO OPERE LA CORTADORA SI HAY PERSONAS A MENOS DE 100 METROS(300 PIES), SALVO QUE: (300 piezo de distancia (300 piezo de distancia (300 piezo)
- Todos los PROTECTORES CONTRA OBJETOS ARROJADOS estén colocados y en buen funcionamiento al operar la contadora,
- .estnesilsebitne seteqas sel y las zapatas antideslizantes. entre los que se incluyen los deflectores frontales y traseros, los protectores de cadena, los protectores de acero, las bandas, los
- Las partes de la cortadora o la ala estén ajustadas cerca y paralelas al suelo, sin exponer las cuchillas. •
- Se ha inspeccionado el AREA DE CORTE y se han quitado todos los materiales extraños y residuos. •
- LOS TRANSEUNTES estén en el interior de un vehículo cerrado.

ANTES DE OPERAR LA CORTADORA, INSPECCIONE EL ÁREA PARA DETECTAR LA POSIBILIDAD DE OBJETOSQUE

- **SODAZNAJ AJS NADJU**
- Los alambres, cables, sogas, cadenas y objetos metálicos pueden ser arrojados o salir desprendidos de la plataforma a QUITE residuos, piedras, cables, alambres, objetos metálicos y cualquier otro objetos extraños del área.
- gran velocidad:
- 1. MARQUE los objetos que no se puedan quitar.
- 2. EVITE estos objetos cuando use la cortadora.
- INSPECCIÓN DEL ÁREA PARA DETECTAR HIERBA ALTA Y MALEZAS:
- INSPECCIONE Y QUITE cualquier residuo oculto de gran tamaño.
- PASE LA CORTADORA a una altura intermedia
- **INSPECCIONE** y quite el residuo restante
- PASE LA CORTADORA a la altura final

PROTECCIÓN CONTRA OBJETOS ARROJADOS DE LA CORTADORA:

- laterales y las zapatas antideslizantes. que se incluyen los deflectores frontales y traseros, los protectores de cadena, los protectores de acero, las bandas, los faldones MANTENCE todos los protectores contra objetos arrojados en su lugar y en buen funcionamiento al operar la cortadora, entre los
- NO OPERE LA CORTADORA si falta algún protector contra objetos arrojados, o si éstos están dañados.

DERECHO DE PASO (autopista) CON LA CORTADORA

- UTILICE PROTECTORES DE CADENA DOBLES para autopistas, derecho de paso, parques o cortes en cinturón verde donde
- Ninguna protección ofrece una eficacia del 100% en la prevención de objetos arrojados. Para reducir la posibilidad de que se propueda haber viviendas, vehiculos o ganado dentro de los 100 metros (300 pies) de la cortadora.
- :səuoisəl usozub
- totneinencionamiento, MANTENCE LOS PROTECTORES DE LA CORTADORA, los faldones laterales, la zapatas antideslizantes y las cuchillas en ٦.
- ELEVE LA ALTURA DE CORTE & 15 CM (6 PULGADAS) como mínimo, .ς
- , SODALOARA INSPECCIONE EL ÁREA con cuidado antes de pasar la contadora para ELIMINAR el posible riesgo de OBJETOS .5
- alambres, piedras, postes, cordones, guardarrailes o el suelo. PN TO01 SP NUNCA PERMITA QUE LAS CUCHILLAS EN MOVIMIENTO ENTREN EN CONTACTO CON OBJETOS SÓLIDOS COMO .4

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SEGURIDAD DE CONECTAR O DESCONECTAR IMPLEMENTO

Asegúrese de que el eje de TDF sea del largo adecuado	Asegúrese de que el eje de TDF esté firmemente ajustado al tractor	Lesión aplastante por caída de ala	Lesión opresiva entre tractor e implemento	Detenga el tractor Quite la llave Lea el Manual
волтомике очт	PTO (Barra Gitatoria)	J.		

IMPLEMENTO: O ROTORAR LESIONES GRAVES O LA MUERTE POR APLARAMIENTO POR EL TRACTOR O

SEGURIDAD

- AL DAR MARCHA ATRÁS el tractor hacia el enganche del implemento:
- otnemelqmi le y tractor y el tractor y el implemento
- :otnemeldmi leb endanche le nganche 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:

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otros objetos.

🗗 РЕГІЄВО

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- NO se agache o camine debajo de la cortadora o la ala en posición elevada.
- implemento. USE el CATO con lengüeta para elevar lengüetas de implementos pesados a fin de controlar el movimiento de la lengüeta del
- EVITE recargar el gato para evitar una falla de éste y una lesión al operador.

AL CONECTAR LA LÍNEA DE CONDUCCIÓN DEL IMPLEMENTO:

- 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.
- asegurarse de que estén FIRMEMENTE SUJETADOS PRESIONE y JALE DE LA LÍNEA DE CONDUCCIÓN del EJE DE TOMA DE FUERZA(PTO) del tractor y del implemento para

:enoiserage la linea de condoción 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 lineas de conducción demasiado cortas se pueden soltar o romper.

DESCIENDA LAS ALAS de manera lenta y cuidadosa.

:SAJA SAJ E QUITAR LAS TRABAS DE RETENCIÓN DE LAS ALAS:

LLENE los cilindros de las alas con lubricante

El uso de un adaptador de PTO puede ocasionar:

NO UTILICE UN ADAPTADOR DE PTO.

CONECTE las mangueras al tractor

sels sel rensegnes del área antes de operar las alas

- Las lineas de conducción demasiado largas pueden tocar el suelo. •
- Un ensamblaje telescópico de la línea de conducción que toque el suelo no se deslizará y se solidificará.

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

Mayor extensión de trabajo, lo que deja expuestas áreas desprotegidas de la línea de conducción e implica el riesgo de enredo con

Vibración excesiva, caída de objetos, fallas de la hoja y el implemento como consecuencia de la duplicación de la velocidad opera-

Sección de Seguridad 1-5

NO conecte la cortadora a un tractor con la TDF directamente conectada a la transmisión del tractor. PN CD01 SP

Si la linea de conducción toca el suelo, puede atravesar los cojinetes de soporte y romper el eje de PTO.

	4-1 be	bingəS əb nòiccəS		21/80	TK15/10	
.0	lor. Sesados. Ses alas	QUEE las partes elevads QUEE las partes elevads güetas de implementos p to y una lesión al operad IÓN DE LAS ALAS: te te te	EL IMPLEMENTO:	IGENCHAR I SIENDA el imi el gato de la l el GATO de le E recargar el (E recargar el (E los cilindro: IE los cilindro: IE los cilindro: IE los cilindro:	AL DESEN 0 0550 0 0550 0 0550 0 0550 0 0500 0 0 0	
s, los pies o el cuerpo debajo s o trabadas en posición o.	equipos, alas y component po antes de poner las mano hasta que estén bloqueada as antes de alejarse del equip D DE NIÑOS POR EL EQUIP	ete con firmeza el equij S de las alas dobladas QUEE las partes elevada.	SICION VERTICAL y suj componentes elevados. S TRANSEÚNTES LEJO plemento, TRABE o BLO plemento sin atención en	QUEE EN PO: s equipes s TENGA A LO sil. sil. mi l9 AANOI mi n9 AGNAI mi n0 ejeb AC	• BLOC de los band vertic vertic AL ESTAC • DESC • DESC • NUNC	
a barra de tracción del tractor or aplastamiento.	y los equipos. asiento del tractor, con el cintu pesté firmemente ajustada a l alas PARA EVITAR accidentes po alas PARA EVITAR el contac áulicas o por un movimiento	n posición vertical. en el asiento del tractor en el asiento del tractor. ESTÉ SENTADO en el a lengüeta del implemento dor de los implementos y lor de los implementos y allas mecánicas o hidra	ISTEMA ROPS trabado e HESE el cinturón de segu actor y el equipo sentado IndeR LAS ALAS: Ias alas SÓLO cuando la las alas SÓLO cuando la ente espacio libre alreded ente espacio libre alreded	TENGA EL SI PRE ABRÓC O PERE el ti A O DESCEN o descienda o descienda tende A LO TENGA A LO TENGA A LO TENGA A LO TENGA A LO TENGA A LO TENGA Sufici dos.	NAM SIEM SOLO SÓLO	
рог саídа de аlа тоя, о ес арсазтаміенто,	por caída de implemento	cinturón de seguridad ón <u>erave o La muer</u>	ROPS (antivuelco) en la posición vertical ARA EVITAR UNA LESI	ante por	aselqe	
Lesión aplastante	Lesión aplastante	Siempre utilice	Trabe el sistema	uòis	PT	
	RIESGO DE APLASTAMIENTO					

GAGIRIDAD

Utilice chaleco de seguridad al operar en o cercas de carreteras	Nunca consuma drogas o alcohol mientras opera	protector calzado Use casco y	əsu ənqməi2 gafas de bebinugəs	Lea con atención el Manual del Operador
SEGURIDAD DEL OPERADOR				

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

АІЗИЕКТЕИСІА

- LEA, COMPRENDA y SIGA las instrucciones del Manual del Operador, al igual que las Advertencias y Mensajes de
- ٠ USE GAFAS DE SEGURIDAD, calzado protector, casco, protección auditiva y guantes al operar o reparar el equipo Seguridad.
- USE un aparato de respiración apropiado al operar en condiciones polvorientas a fin de evitar contraer
- No USE prendas sueltas o joyas que se puedan enredar con las partes giratorias y causar una lesión. • enfermedades respiratorias.
- 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. ٠
- MENTENGESE ALERTA, la operación prolongada puede causar fatiga. HEGE UNA PAUSA y DESCANSE. CONSULTE a un médico para conocer los efectos desfavorables de la medicación sobre los sentidos. •

SEGURIDAD DE OPERACION GENERAL

CONDICIONES DE VISIBILIDAD AL USAR LA CORTADORA:

- O01) son lus de más de más de más visibilidad nítida de más visibilidad nítida de más de 90 metros (100
- elevadas, cables de alimentación, residuos y objetos extraños. DEBE PODER VISUALIZAR e identificar transeúntes, terrenos empinados, pozos, desniveles, obstrucciones .(sebiely.

VELOCIDAD RESPECTO AL SUELO AL USAR LA CORTADORA:

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

INFESTACIÓN CON INSECTOS

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

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

Sección de Seguridad 1-3

de las cuchillas.

SENALES DE SEGURIDAD:

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

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GAGIRIDAD

INSTRUCCIONES DE SEGURIDAD Y PRÀCTICAS GENERALES

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

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

el grado de lesión que se puede producir al operar este equipo. la Señal Verbal tienen el objetivo de advertir al propietario/operador sobre un riesgo inminente y "imbolo y indexe algentai su seguridate esté en juego!" El Símbolo y

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

MUERTE O UNA LESIÓN MUY GRAVE. М РЕГІСКО Indica una situación peligrosa inminente que, de no ser evitada, OCASIONARA la

. EVARD YUM NOISEL ANU O ETREUM АІЗИЕТЯВИСІА Indica una situación peligrosa inminente que, de no ser evitada, PODRÍA OCASIONAR la

UNA LESION MENOR. и риссалсіо́и Indica una situación peligrosa inminente que, de no ser evitada, PODRÍA OCASIONAR

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

o el entorno.

conveniente. Veración de particular interés para lograr una operación o reparación más eficiente y

situaciones peligrosas. muerte. Siempre siga las instrucciones de este manual y use el sentido común para evitar los Mensajes de Seguridad del implemento, se pueden producir lesiones graves o la siguen cuidadosamente las advertencias e instrucciones indicadas en este Manual y en LEA CON ATENCION Y RESPETE los siguientes Mensajes de Seguridad. Si no se

9529; La Sección de Seguridad está disponible en español, portugués, francés, alemán, ruso. PN eson sp comuniquese con: Translations, a la dirección 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372semoibi seineirupis sol de cesto de cesción de seguridad en alguno de los seguiencións. Si desensión de los se

Sección de Seguridad 1-2

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Importante





SECCIÓN DE SEGURIDAD

Sección de Seguridad 1-1

Instrucciones de operaciones antes de la entrega del DISTRIBUIDOR al CLIENTE

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

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

VERIFIQUE Y AJUSTE O LUBRIQUE SEGUN SEA NECESARIO SERVICIO ANTES DE LA ENTREGA

Inspección realizada – Garantía y procedimientos de seguridad explicados – Instalación realizada Consulte los detalles en el Manual del Operador

CONEXIONES DE CORTADORA A TRACTOR

Pivote y conexiones de bastidor en A Longitud de barra de enganche (verificar y fijar)

- Barras de control (ajustadas iguales)
- Altura de eje (ajustar)
- Altura de corte (ajustar)
- Verificación de pre-operación de kit de montaje
- Aleta de cortadora (verificar operación de elevación Aleta de cortadora (ajustar nivel con el centro)
- Líneas de conducción C.V. (verificar radio de giro máx.) (brothecta)
- Enganche de tracción (ajuste de altura)
- Piezas metálicas de montaje bien ajustadas

ELEMENTOS DE SEGURIDAD

- Protectores (operación e instalación)
- Embrague de línea de conducción (limitador de ajuste)
- (ajustar y poner en marcha) Autoadhesivos de segu 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)
- AMDA noissuband de Línea de Conducción ADMA
- Manual de Seguridad de Cortadora AEM (entregado en (entregado) 🗖
- comprador Is M3A stotsto de Seguridad de Cortadora AEM al (jenuem ehod

ΑΟΙΟΙΑΤΟΙΑΤΙΑΙ Ε ΗΙΟRΑULICA

- 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 trontal (conjunto ajustado y eje

ARODATROD pieu silneado)

- Pernos de husillo y motor bien ajustados
- Nivel de aceite del husillo
- retención colocados Pernos de porta cuchillas bien ajustados/pasadores de
- 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
- previa) Cojinetes de rueda (verificar, engrasar y hacer carga (sebeteule) anilo D

ACCESORIOS E INSTALACIÓN

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

correcto)

Tiger Corporation está dispuesto a suministrar un (1) Video de Prácticas MEA sortadoras AEM

(830) 312-9529
O enviar por fax a:
Sefuin, TX 78155
1502 E. Walnut Street
services Services
Enviat por correo a:
Nombre del distribuidor: Dirección del distribuidor:
Fecha de compra:Vendedor del distribuidor:
Modelo de cortadora:Número de serie:
Código postal:
Estado:
.bebuiO
Dirección del solicitante:
Nombre del solicitante:
Manual de Seguridad del Operador de la Cortadora Manual
Manual del Operador de la Cortadora
DVD otemate de Seguridad para el Operador de Cortadoras AMATAMENTE DVD
Por favor enviar: Video de Seguridad para el Operador de Cortadoras AEM/FEMA – formato VHS

AEMVideo@alamo-group.com

O enviar por correo electrónico a:







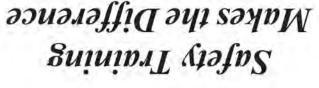
Vídeo de Seguridad

▶ BE VLERT:

BE VIIAE: MWW. slgdr. com/tvs

▶ BE LKVINED

the Mower! before operating



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

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

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

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

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

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

AHEO UJAI OTNAIMANAATNA AD SOTIRIUDAA

vop.enso.www .(ð) (a) 72.8261 selarebei zenoiosluper Los seguientes requisitos de entrenamiento se an tomoda del Titulo 29, código de la pieza de

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

Al propietario/operador/distribuidor

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

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

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

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

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

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

Para referencia futura, registre el número de modelo y el número de serie de TIGER que ha adquirido.

Número de serie.	Fecha de compra:	Dueño
Fecha de compra:	onofèləT	Distribuidor



S1/01 TAALLKAT



DEL NIVEL MECÀNICAS CON ALETA FLEXIBLE ΙΟΙΣΑΥΑΛΑΥΤΙΤΙΤΟΥΑΟΟΥΑ GIRATORIA DE ELEVACIÓN

evi/moo.npgls.www

internet en:

puede acceder

instrucciones de

operación y las

instrucciones de

Importantes

Parte nº. 00787918C

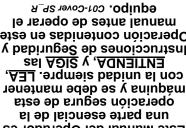
Publicado en 08/12

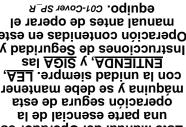
RAUDAL DE OPERADOR

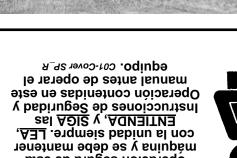


le ne etnemeene en el Sobre Seguridad que se en el video Cortacésped seguridad se encuentran Este Manual del Operador es













moo.erawom-ragit.www 006L-9EE-S09-I 6789-873-6849 Sioux Falls, SD 57107 .9vA seiuo.J .N 1066 **Tiger Corporation**