



An Alamo Group Company

## FIXED TOOTH FORESTRY MOWER

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Part No. TR478051

# OPERATOR'S MANUAL



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

Important Operating and Safety Instructions are found in the Mower Safety Video that can be instantly accessed on the internet at: [www.algqr.com/ave](http://www.algqr.com/ave)

Safety Video



[www.algqr.com/ave](http://www.algqr.com/ave)



FC-RC-0004

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Alamo Industrial  
Web Page







[www.algqr.com/awe](http://www.algqr.com/awe)

**¡ATENCIÓN!**  
LEA EL INSTRUCTIVO



Si No Lee Ingles, Pida  
Ayuda a Alguien  
Que Se Lo Lea Para Que le  
Traduzca Las  
Medidas de Seguridad

<b>! PELIGRO</b>	<b>! DANGER</b>
<p>Si no puede leer inglés: antes de poner en funcionamiento este equipo, solicite que alguien le traduzca los mensajes de seguridad o vaya al sitio web para consultar los mensajes de seguridad y las etiquetas ya traducidos.</p>	<p>Si vous ne savez pas lire le français: avant d'utiliser l'équipement, demandez à une personne de vous traduire les messages de sécurité ou allez sur le site Internet pour voir la traduction des autocollants et des messages de sécurité.</p>
<p><b>El Manual del Operador Seguridad vídeo</b></p> <div style="display: flex; align-items: center; justify-content: space-around;">    </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <a href="http://www.algqr.com/ars">www.algqr.com/ars</a> <a href="http://www.algqr.com/avs">www.algqr.com/avs</a> </div>	<p><b>Manuel de l'Opérateur</b></p> <div style="display: flex; align-items: center; justify-content: space-around;">   </div> <div style="text-align: right; margin-top: 5px;"> <a href="http://www.algqr.com/arf">www.algqr.com/arf</a> </div>

<b>! PERIGO</b>	<b>! GEFAHR</b>
<p>Caso você não leia inglês: antes de operar o equipamento, peça para alguém traduzir as mensagens de segurança ou visite a web e obtenha tais mensagens ou os decalques traduzidos.</p>	<p>Falls Sie nicht Englisch sprechen: Bevor Sie die Geräte in Betrieb nehmen, bitten Sie eine Englisch sprechende Person darum, Ihnen die Sicherheitsmeldung zu übersetzen, oder besuchen Sie die Website; dort finden Sie übersetzte Aufkleber und Sicherheitsmeldungen.</p>
<p><b>Manual do Operador</b></p> <div style="display: flex; align-items: center; justify-content: space-around;">   </div> <div style="text-align: center; margin-top: 5px;"> <a href="http://www.algqr.com/arp">www.algqr.com/arp</a> </div>	<p><b>Benutzerhandbuch</b></p> <div style="display: flex; align-items: center; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>D833</span> <span><a href="http://www.algqr.com/arg">www.algqr.com/arg</a></span> </div>

Safety Video



[www.algqr.com/ave](http://www.algqr.com/ave)

Operator's & Parts Manuals



[www.algqr.com/apm](http://www.algqr.com/apm)

Safety Video

➤ **BE SAFE!**

➤ **BE ALERT!**

➤ **BE ALIVE!**

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



[www.algqr.com/ave](http://www.algqr.com/ave)



## *Safety Training Makes the Difference*

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

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

Your Authorized *Alamo Industrial* 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 *Alamo Industrial*.

If you would like a VHS video tape of the video, please email [AEMVideo@alamo-group.com](mailto: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](http://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.

**Alamo Industrial Division is willing to provide  
one (1) AEM Mower Safety Practices Video**

Please Send Me: ☐ VHS Format – AEM/FEMA Mower Operator Safety Video  
☐ DVD Format – AEM/FEMA Mower Operator Safety Video  
☐ Mower Operator's Manual  
☐ AEM Mower Operator's Safety Manual

Requester Name \_\_\_\_\_ Phone: \_\_\_\_\_

Requester Address: \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip Code \_\_\_\_\_

Mower Model: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Date Purchased: \_\_\_\_\_ Dealer Salesperson: \_\_\_\_\_

Dealership Name: \_\_\_\_\_ Dealership Location: \_\_\_\_\_

Mail to:

AEM Video Services

1502 E. Walnut Street

Seguin, TX 78155

Or Fax to:

(830) 372-9529

Or 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 unit at all times. If you lose or damage this manual a free replacement manual can be obtained from an authorized *Alamo Industrial* dealer or by downloading the manual from the *Alamo Industrial* website [www.www.alamo-industrial.com](http://www.www.alamo-industrial.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 machine 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.

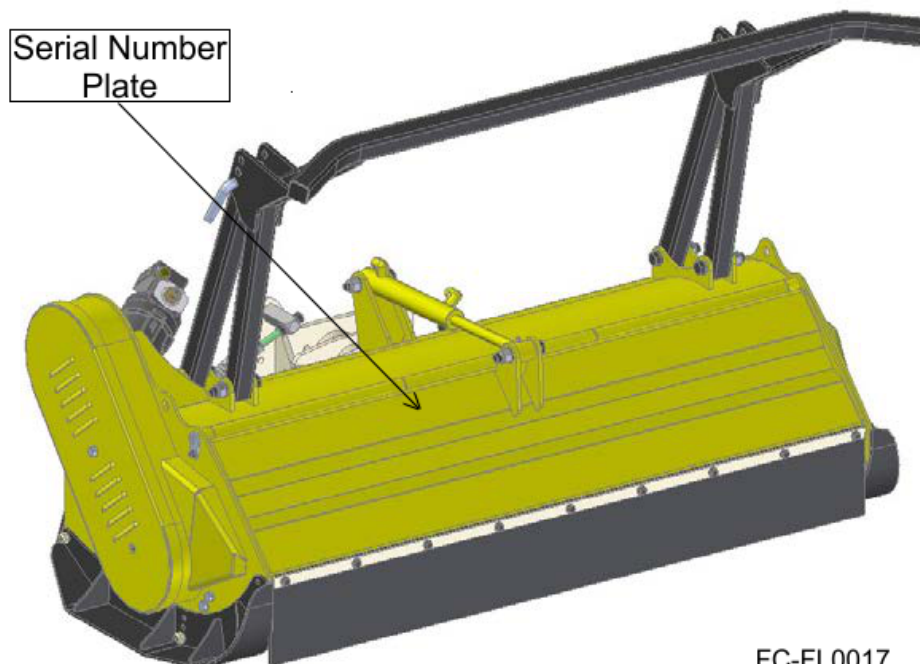
The care you give your *Alamo Industrial* machine will greatly determine your satisfaction with its performance and its service life. Carefully read and follow the instructions in this manual to provide you with a thorough understanding of your new implement and its intended use and service requirements.

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 unit.

Replacement Parts information is located in a separate Parts Manual. *Alamo Industrial* 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 *Alamo Industrial* 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 *Alamo Industrial* mower parts for economy and safety.

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

Dealer		Telephone		Model Number	
Owner		Purchase Date:		Serial Number	



FC-FL0017

# 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 TRAXX RF Unit 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.
- **SHIELDS:** I have made certain that all 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.
- **IMPLEMENTS:** I have explained that it is not possible to guard against thrown objects when the head, or mower door is lifted off ground and that operator is responsible to watch out for persons in the area.

## 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

## DEALER'S PREDELIVERY SERVICE GUIDE

DETAILS OF ITEMS LISTED BELOW ARE COVERED IN THIS OPERATOR'S MANUAL

- \_\_\_ Shipping damage corrected
- \_\_\_ Set up machine as outlined in the shipping instructions attached to these instructions.
- \_\_\_ Check that all safety decals are in good condition, replace if necessary.
- \_\_\_ Check that gearboxes have been filled with oil.
- \_\_\_ Check that all grease fittings have been lubricated.

## DEALER'S DELIVERY GUIDE

- \_\_\_ Mounting and removal from tractor
- \_\_\_ Operation
- \_\_\_ Adjustments
- \_\_\_ Lubrication
- \_\_\_ Maintenance
- \_\_\_ Operator's safety precautions
- \_\_\_ User's responsibility and warranty
- \_\_\_ Operator's manual delivered to owner
- \_\_\_ Operator instructed on contents of owner's manual

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# **SAFETY SECTION**

Safety Section 1-1

# SAFETY

## GENERAL SAFETY INSTRUCTIONS AND PRACTICES

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



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

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



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



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



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

### 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.

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

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



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

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

**NOTE:** *If you want a translation of this safety section in one of the following Languages, please contact: Translations at 1502 E. Walnut Street Seguin, TX 78155; Fax: (830) 372-9529; Safety Section Translations are available in Spanish, Portuguese, French, German, Russian. PN GS01*

# SAFETY

## OPERATOR SAFETY

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



**TO AVOID SERIOUS INJURY OR DEATH DO THE FOLLOWING:**

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

## GENERAL OPERATING SAFETY

### **VISIBILITY CONDITIONS WHEN MOWING:**

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

### **GROUND SPEED WHEN MOWING:**

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

### **INSECT INFESTATION**

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

### **SAFETY SIGNS:**

- **REPLACE** missing, damaged or unreadable safety signs immediately. *PN OSRCM-01*

# SAFETY

## CRUSHING HAZARDS

	
Crushing injury from roll over	Crushing injury Implement falling



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

### WHEN RAISING OR LOWERING MOWER:

- Raise or lower **when no one is within 20 feet of mower.**
- **KEEP BYSTANDERS CLEAR** of area **TO AVOID** crushing.
- **KEEP** sufficient clearance around implement **TO AVOID** contacting buildings or power lines.

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



**TO AVOID EQUIPMENT FALLING while working near or under lifted implement or components raised by 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 raised, blocked or locked up mower.

### 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:**

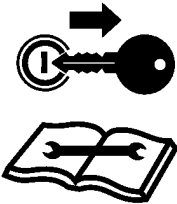
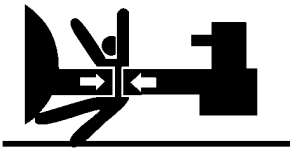
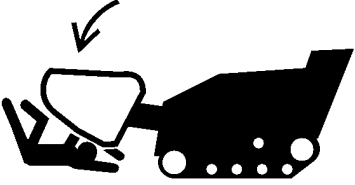
- **NEVER ALLOW** children to play on or around Tractor or Implement.

### WHEN UNHITCHING IMPLEMENT:

- **LOWER** implement, **LOCK** or **BLOCK** lifted parts before leaving equipment. *PN CHFM-03*

# SAFETY

## CONNECTING OR DISCONNECTING IMPLEMENT SAFETY

		
<p>Stop Tractor Remove Key Read Manual</p>	<p>Crushing injury between tractor and implement</p>	<p>Crushing injury mower falling</p>



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:

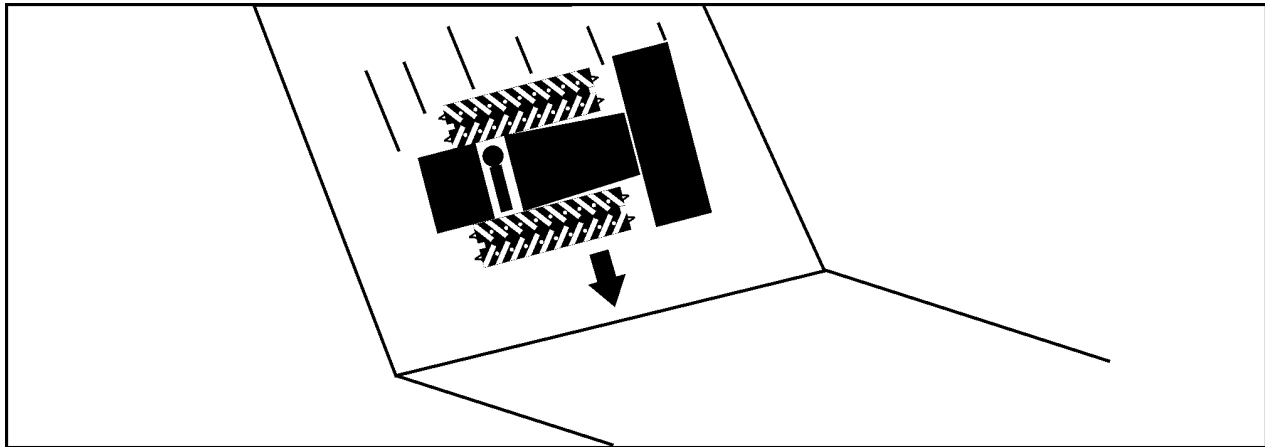
- **STOP TRACTOR ENGINE**, place transmission into park, engage parking brake and remove key.

**WHEN** connecting and disconnecting implement hitch:

- **DO NOT** crawl or walk under raised mower or implement. *PN CDRCM-03*

# SAFETY

## SLIDING HAZARD



Crushing injury  
Implement sliding from loss of traction



**TO AVOID SERIOUS INJURY OR DEATH FROM SLIDING OR EQUIPMENT ROLLOVER:**

**Never attempt to operate the TRAXX RF with metal cleats or spiked track on concrete hillsides or hard hillside surfaces.**




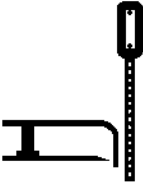
Operation of the spiked or cleated track on concrete or hard surface hillsides could result in sudden and violent loss of traction and control of the machine and may result in serious injury or death.



The TRAXX RF should only be operated on concrete or hard surface hillsides with the optional rubber track system installed. *PN SHRCM-01*

# SAFETY

## THROWN OBJECTS HAZARDS

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



**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, 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 be removed.
  2. **AVOID** these objects when mowing.

**HIGH GRASS and WEED AREA INSPECTION:**

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

**MOWER THROWN OBJECT SHIELDING:**




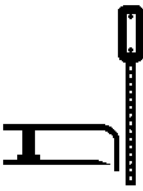
- **KEEP** all thrown object shielding including, Front and Rear Deflectors, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- **DO NOT OPERATE** with any thrown object shielding missing, damaged or removed.

**RIGHT OF WAY (Highway) MOWING**

- 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 TORCM-01*

# SAFETY

## THROWN OBJECTS HAZARD (CONTINUED)

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

### MOWER OPERATION:

- **DO NOT** exceed mower's rated Cutting Capacity or cut non-vegetative material.
- **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 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 balance and **REPLACE** if damaged.
- **DO NOT** mow in standing water **TO AVOID** possible **BLADE FAILURE**.
- **DO NOT ENGAGE MOWER BLADES** with mower in transport speed.
- **STOP** mowing when **EXCESSIVE VIBRATION** occurs:
  1. **STOP MOWER BLADES** and tractor **ENGINE**.
  2. **INSPECT** mower for vibration source
  3. **REPLACE** any damage parts and bent or damaged **BLADES**. *PN TORCM-02*



# SAFETY

## RUN OVER HAZARDS

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



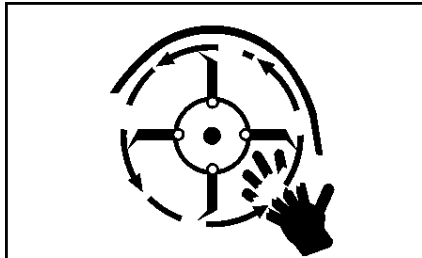
**TO AVOID SERIOUS INJURY OR DEATH FROM FALLING OFF TRACTOR OR EQUIPMENT RUN OVER:**

- Never allow riders on unit.
- Never ride on unit.
- Never stand in front of the mower, stay 300 feet away from the front of the mower while mowing.
- Never stand below or down slope of tractor, the tractor could slide or roll on top of you.
- Never stand within 25 feet of the tractor when operating the tractor.
- Never stand within 100 feet of the mower while operating the mower.
- Never walk closely behind the mower, stay 100 feet to the side or behind mower.
- When standing on a slope above the mower, make sure your footing is stable and solid to prevent slipping or falling into the path of the mower.
- Do not operate the tractor-mower in areas where you cannot clearly see in front of the mower path. Failure to see a bystander, drop-off or obstruction could result in serious injury.
- Only start the tractor with the remote control properly fitted too the operator.
- Never start the tractor if any bystander or coworker is within 25 feet of the mower.
- Only operate the tractor remote control when it is properly fitted on the operator.
- Immediately stop and shutdown the tractor and mower if a bystander comes within 300 feet of the mower.
- Never operate the tractor and mower toward motor vehicle traffic. Mow in a direction away from or perpendicular to vehicle traffic. *PN RORCM-01*

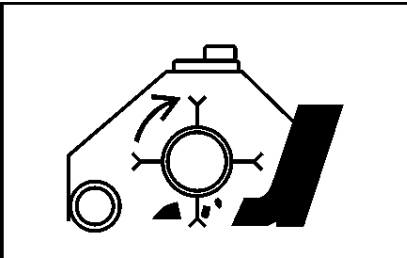
**SAFETY**

# SAFETY

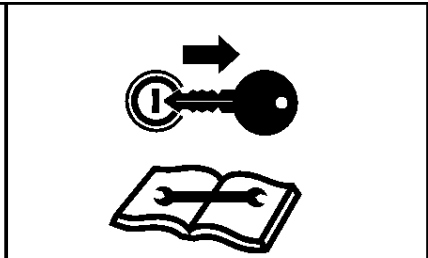
## MOWER BLADE CONTACT HAZARDS



Do not put fingers  
underneath mower



Do not put foot underneath  
mower



Stop Tractor Remove Key  
Read Manual





### **⚠ DANGER**

**KEEP AWAY FROM ROTATING BLADES TO AVOID 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 MBFM-01*

# SAFETY

## HIGH PRESSURE OIL LEAK HAZARD

			
High pressure oil penetrating skin	High pressure oil eroding skin	Using cardboard to check for oil leaks	Tank contents under pressure. Allow oil to cool before slowly removing cap



**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.




**Use Caution when removing Hydraulic Tank cap.**

- Tank content maybe under pressure.
- Allow oil to cool before removing cap.
- Relieve oil pressure before removing cap slowly.
- Stay away from hot oil that may spray from tank.

**PN HPFM-01**

# SAFETY

## ELECTRICAL & FIRE HAZARDS

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

### **⚠ DANGER**

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

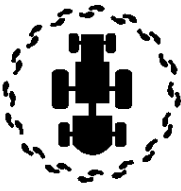
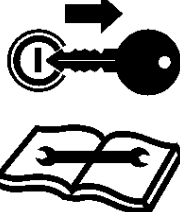



- **INSPECT** mowing area for overhead or underground electrical power lines, obstructions, gas lines, cables and Utility, Municipal, or other type structure.
- **DO NOT** allow mower to contact with any Utility, Municipal, or type of structures and obstructions.
- **CALL 811** and 1-800-258-0808 for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

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

- **Support equipment with a FIRE EXTINGUISHER**
- **DO NOT SMOKE** or have open flame near Mower.
- **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.
- **CLEAR** any grass clippings or debris buildup around mower, batteries and engine.
- **SHUT OFF ENGINE** while refueling.
- Do not operate if oil is leaking. Repair oil leak and remove all accumulated oil before operating.
- **CLEAR** any grass clippings or debris buildup around mower hydraulic pumps, valves or tanks. *PN EFRCM-01*

# SAFETY

## HAZARDS WITH MAINTENANCE OF IMPLEMENT

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

### **WARNING**

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

#### BEFORE PERFORMING SERVICE, REPAIRS AND MAINTENANCE ON THE IMPLEMENT:

- **STOP ENGINE**, engage parking brake, lower implement, allow all moving parts to stop and remove key.
- **PLACE** implement on ground or securely block up raised equipment. Use large blocks on soft or wet soil.

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

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

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

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

#### BLADE INSPECTION:

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

#### SAFETY SHIELDS, GUARDS AND SAFETY DEVICES INSPECTION:

- **KEEP** all Deflectors, Steel Guards, Bolts, Side Skirts and Skid Shoes in place and in good condition.
- **REPLACE** any missing, broken or worn safety shields, guards and safety devices.
- Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.
- **DISCONNECT** hydraulic connections before servicing mower head.
- **FOLLOW INSTRUCTIONS** in maintenance section when replacing hydraulic cylinders to prevent component falling.

#### CLEANING IMPLEMENT

- **NEVER** clean with pressure washer electrical components such as: receiver, remote control, actuator, reversible fan air compressor, fuses and relay box.

### **WARNING**

Operating, servicing and maintaining this equipment can expose you to chemicals including gasoline, diesel fuel, lubricants, petroleum products, engine exhaust, carbon monoxide, and phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). This website, operated by California's Office of Environmental Health Hazard Assessment, provides information about these chemicals and how individuals may be exposed to them **PN HMRCM-02**

SAFETY

# SAFETY

## **PARTS INFORMATION**

### PARTS INFORMATION

Alamo Industrial 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 Alamo Industrial 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 Alamo Industrial mower parts for economy and safety. (SPAM-1)

**SEE YOUR ALAMO DEALER**

Operator's & Parts Manuals



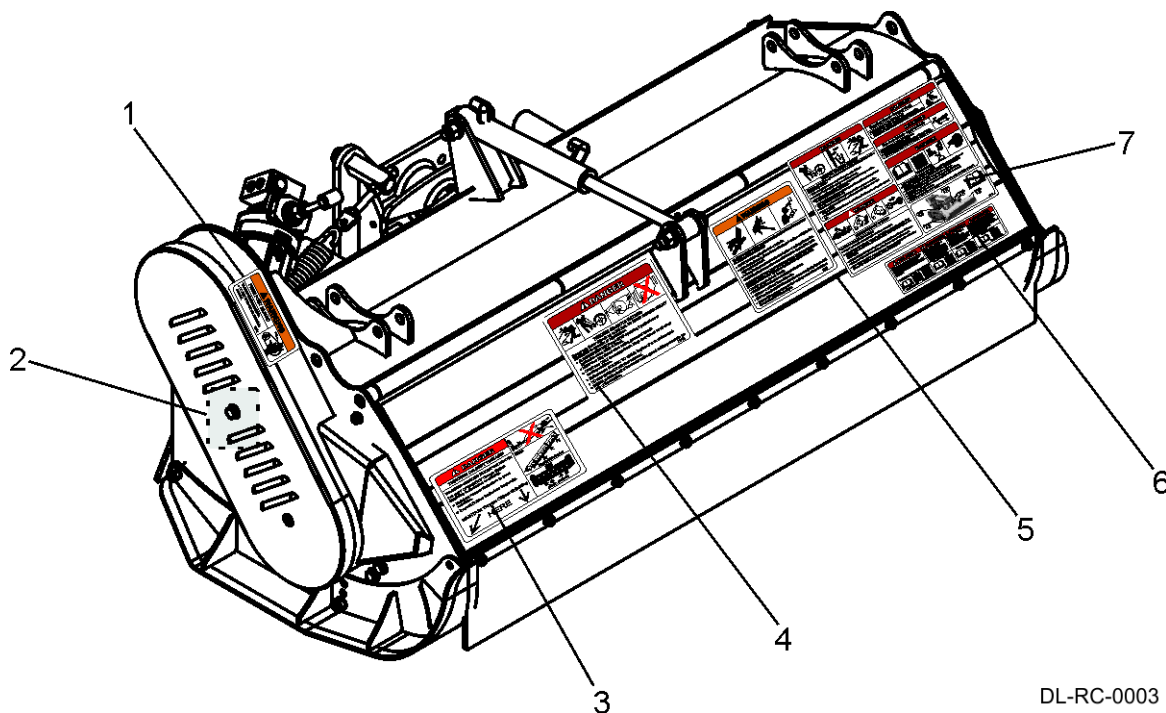
[www.algqr.com/apm](http://www.algqr.com/apm)

SAFETY

# SAFETY

## Decal Location

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



DL-RC-0003

ITEM	PART NO.	QTY	LEVEL	DESCRIPTION
1.	D641	1	WARNING	Pinch Point Hazard
2.	D773	1	DANGER	Guard Missing
3.	D626	1	DANGER	Missing Shields
4.	D897	1	DANGER	Thrown Objects Hazard
5.	D617	1	WARNING	Multiple-Hazard Oil Leak
6.	D833	1	DANGER	Multi-Language
7.	D777	1	DANGER	Multiple-Hazard

# SAFETY

## SAFETY

### Decal Description

**! DANGER**




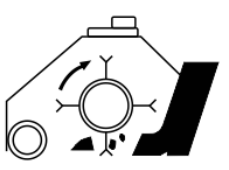
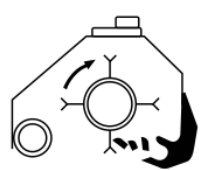
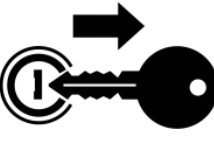


**THROWN OBJECTS HAZARD**

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

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

**! DANGER**

**ENTANGLEMENT HAZARD**

**TO AVOID SERIOUS INJURY OR DEATH:**

- DO NOT operate without guards in place and in good condition.
- STAY AWAY and KEEP hands, feet and body AWAY from rotating blades, drivelines and parts that continue to move after power shut-off. WAIT until all moving elements have stopped.
- ALWAYS REPLACE GUARDS that have been removed for service or maintenance.
- STOP, LOOK and LISTEN for rotating motion before approaching implement.
- STOP ENGINE and PTO, engage parking brake, lower implement, allow all moving parts to stop and remove key before dismounting from tractor.



# SAFETY

## ⚠ DANGER

### Crushing Hazard - Injury or Death

#### TO AVOID SERIOUS INJURY OR DEATH:

- BLOCK UP and securely support equipment before putting hands, feet or body under raised equipment or lifted components.

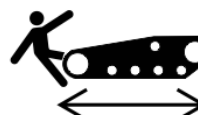


## ⚠ DANGER

### Run Over Hazard - Injury or Death

#### TO AVOID SERIOUS INJURY OR DEATH:

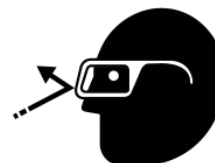
- NEVER ALLOW riders on machine.
- NEVER Stand in front or in rear of machine when operating.
- KEEP BYSTANDERS CLEAR of area before moving machine.



## ⚠ DANGER

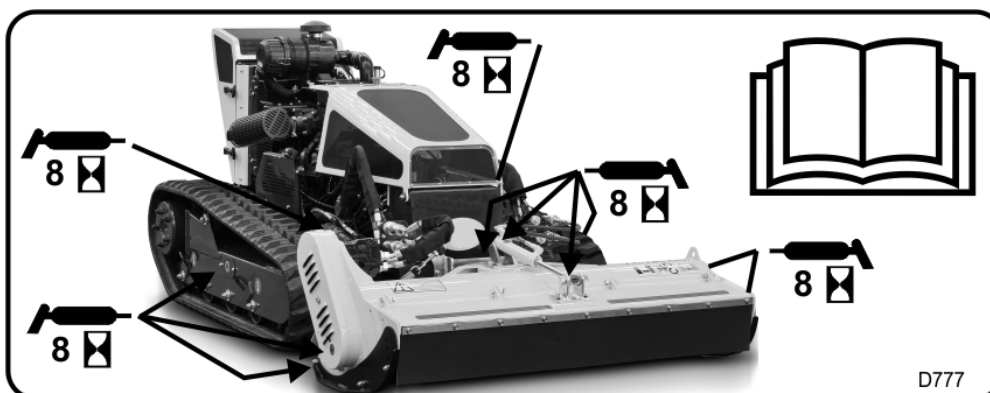


[www.algqr.com/are](http://www.algqr.com/are)



#### TO AVOID SERIOUS INJURY OR DEATH:

- READ AND UNDERSTAND the provided Operator's Manuals, safety signs and information decals for tractor and implement before operating equipment.
- CONTACT DEALER immediately if you do not have manuals.
- CONTACT DEALER to explain any instructions not fully understood.
- KNOW HOW to stop tractor and equipment quickly for an emergency.
- ALWAYS WEAR safety glasses.
- WEAR hard hat, safety shoes and gloves for protection when operating equipment.



D777

# SAFETY

## SAFETY

### ⚠ WARNING



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

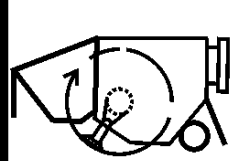
- DO NOT OPERATE equipment with oil or fuel leaks.
- KEEP all hydraulic hoses, lines and connections in good condition and tight before applying system pressure.
- Relieve hydraulic pressure before disconnecting lines or working on the system.
- REMOVE and replace hose if you suspect it leaks. Have dealer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

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

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

D617

### ⚠ DANGER




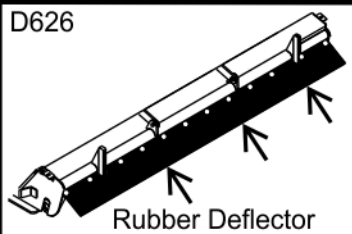
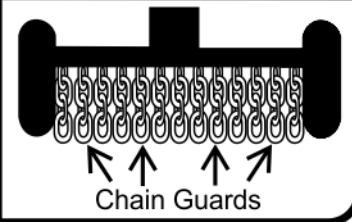
#### THROWN OBJECTS HAZARD

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

- CLOSE MOWER DOOR and STOP operating if pedestrians or bystanders come within 300 feet.
- KEEP door fully closed when cutting grass and weeds.
- OPEN door ONLY to cut large brush. Keep door closed for all other mowing conditions.
- Deflectors are SUBJECT TO WEAR. Replace if worn or damaged.
- DO NOT OPERATE with door removed.
- NEVER point the front of the mower at the operator. Always stand to the side of the machine.

D897

# SAFETY

<b>⚠ DANGER</b>	
<b>THROWN OBJECT HAZARD</b>	
<p><b>TO AVOID SERIOUS INJURY OR DEATH:</b> DO NOT OPERATE if Thrown Object Shielding is damaged or missing.</p> <ul style="list-style-type: none"> <li>• Maintain Rubber Deflectors in good condition.</li> <li>• Inspect Rubber Deflectors frequently.</li> </ul> <p>MAINTAIN Thrown Object Shielding</p> <div style="text-align: center;"> <span style="font-size: 2em;">↙</span> <span style="font-size: 3em;">HERE</span> <span style="font-size: 2em;">↓</span> </div>	 <p>D626</p>  <p>Rubber Deflector</p>  <p>Chain Guards</p>

**⚠ DANGER**



D773

**GUARD MISSING  
DO NOT OPERATE**


**⚠ WARNING**

**PINCH POINT HAZARD**

**TO AVOID SERIOUS INJURY:**

- DO NOT OPERATE with Belt Shield removed.

D641



# SAFETY

## SAFETY

<b>! PELIGRO</b>	<b>! DANGER</b>
<p>Si no puede leer inglés: antes de poner en funcionamiento este equipo, solicite que alguien le traduzca los mensajes de seguridad o vaya al sitio web para consultar los mensajes de seguridad y las etiquetas ya traducidos.</p>	<p>Si vous ne savez pas lire le français: avant d'utiliser l'équipement, demandez à une personne de vous traduire les messages de sécurité ou allez sur le site Internet pour voir la traduction des autocollants et des messages de sécurité.</p>
<p><b>El Manual del Operador Seguridad vídeo</b></p> <div data-bbox="332 703 511 829"></div> <div data-bbox="527 682 868 850"> </div> <p><a href="http://www.algqr.com/ars">www.algqr.com/ars</a>    <a href="http://www.algqr.com/avs">www.algqr.com/avs</a></p>	<p><b>Manuel de l'Opérateur</b></p> <div data-bbox="901 703 1079 829"></div> <div data-bbox="1096 682 1274 850"> </div> <p><a href="http://www.algqr.com/arf">www.algqr.com/arf</a></p>
<b>! PERIGO</b>	<b>! GEFAHR</b>
<p>Caso você não leia inglês: antes de operar o equipamento, peça para alguém traduzir as mensagens de segurança ou visite a web e obtenha tais mensagens ou os decalques traduzidos.</p>	<p>Falls Sie nicht Englisch sprechen: Bevor Sie die Geräte in Betrieb nehmen, bitten Sie eine Englisch sprechende Person darum, Ihnen die Sicherheitsmeldung zu übersetzen, oder besuchen Sie die Website; dort finden Sie übersetzte Aufkleber und Sicherheitsmeldungen.</p>
<p><b>Manual do Operador</b></p> <div data-bbox="389 1323 568 1449"></div> <div data-bbox="584 1302 747 1459"> </div> <p><a href="http://www.algqr.com/arp">www.algqr.com/arp</a></p>	<p><b>Benutzerhandbuch</b></p> <div data-bbox="828 1323 1006 1449"></div> <div data-bbox="1023 1302 1185 1459"> </div> <p>D833    <a href="http://www.algqr.com/arg">www.algqr.com/arg</a></p>

# SAFETY

## FEDERAL LAWS AND REGULATIONS

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

### Employer-Employee Operator Regulations

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

#### This Act Seeks:

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

#### DUTIES

Sec. 5 (a) Each employer-

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

### OSHA Training Requirements

**Title 29, Code of Federal Regulations Part 1928.57(a)(6).** [www.osha.gov](http://www.osha.gov)

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

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

Permit no riders on equipment

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

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

### Employer Responsibilities:

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

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

### Child Labor Under 16 Years of Age

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



# INTRODUCTION SECTION

Introduction Section 2-1

# INTRODUCTION

## INTRODUCTION



FC-RC-0004

The Forestry Flail Head is an effective, reliable machine used for maintaining grass, weeds, brush and small trees. For best results operate the machine as low to the ground as possible without the hammers striking ground or other obstructions. Lifting or tilting the tree hammer increases the risk of flying debris, and is considered as inappropriate and the manufacturer will not be held liable for injuries to people and damage to property or the machine itself. Because of the high speed of the hammers, the life of the hammers will be reduced if it is operated in rocky terrain or in areas where many obstacles are present. Areas to be mowed should be free of debris such as rocks, bottles, large branches etc. The hammers pound and pulverize the grass, weeds and brush. The tree hammer deposits cut material over the entire width-of-cut, which eliminates bunching or windrowing behind the machine. The Forestry head is a machine constructed to be used by professional personnel, principally for work of cutting of the material that grows or finds itself on the ground such as: grass, sticks, bushes and hedges of maximum diameter 3.16" (8cm). The machine is suitable for chopping up to a speed of 9-11mph (4-5km) and depends on soil condition, type of material and the state of that material such as length, wet or dry, density, etc.

Literature Page



[www.algqr.com/ar1](http://www.algqr.com/ar1)

This machine is usually used during the day. If required to use at night or in conditions of reduced visibility, operate only with auxiliary lighting system.

It is recommended that all operators of this implement read this manual or be instructed of its contents as to safety, proper operation, and maintenance before beginning operation. The Forestry Flail must not be used by minors, untrained and unqualified personnel.



# INTRODUCTION



The TRAXX RF should only be operated on concrete or hard surface hillsides with the optional rubber track system installed.

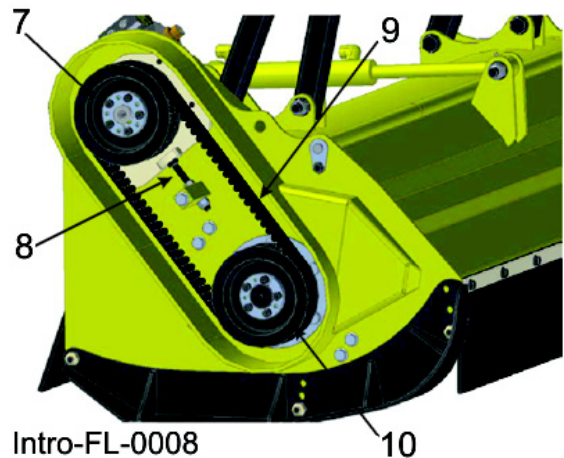
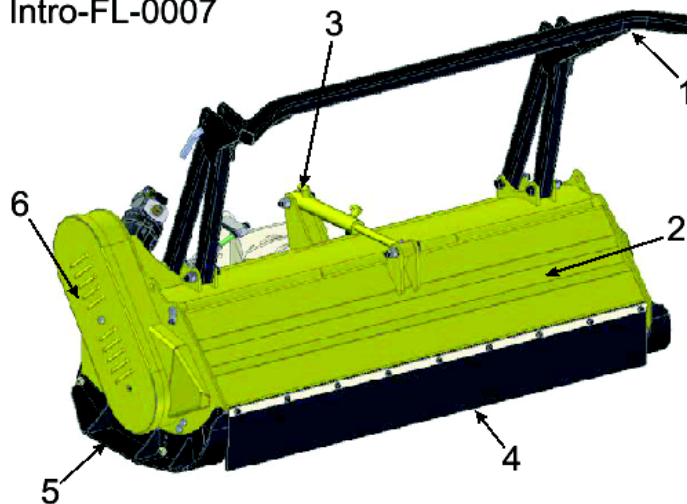
This equipment must be only installed on the Traxx radio controlled machine sold by Alamo Industrial.

For the purpose of this Alamo Industrial equipment, the following definitions apply.

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

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

Intro-FL-0007



Intro-FL-0008

## DESCRIPTION OF THE TRAXX FORESTRY FLAIL

1. Pushing Frame (Optional)
2. Front Cover
3. Ram
4. Rubber Protection
5. Adjustable Right Hand Skid
6. Pulley Guard
7. Upper Pulley
8. Adjustable Pin
9. Belt
10. Lower Pulley

# INTRODUCTION

## INTRODUCTION

### Attention Owner/Operator

BEFORE OPERATING THIS MACHINE:

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

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

3. Record the Model and Serial Numbers on the Warranty page at the front of the Operator's Manual. Keep this as part of the permanent maintenance file for the implement this as part of the permanent maintenance file for the implement.

**WARNING**

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

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

Contact local dealer or ALAMO INDUSTRIAL about repair parts at:

1502 E. Walnut, Seguin, TX 78155. Customer Service: 800-882-5762.  
Email: [support@alamo-industrial.com](mailto:support@alamo-industrial.com)



[www.algqr.com/apm](http://www.algqr.com/apm)

**WARNING**

**Cancer and Reproductive Harm**  
[www.P65 Warnings.ca.gov](http://www.P65Warnings.ca.gov) D779

# **ASSEMBLY SECTION**

Assembly Section 3-1

# ASSEMBLY

## ASSEMBLY

### GENERAL INSTRUCTIONS

The TRAXX RF is delivered completely assembled and ready for use having been pre-filled with all necessary lubricants and fluids other than fuel.

Before use all packaging must be removed and the transport fasteners loosened.

The Strobe Light will be supplied and must be installed prior to use.

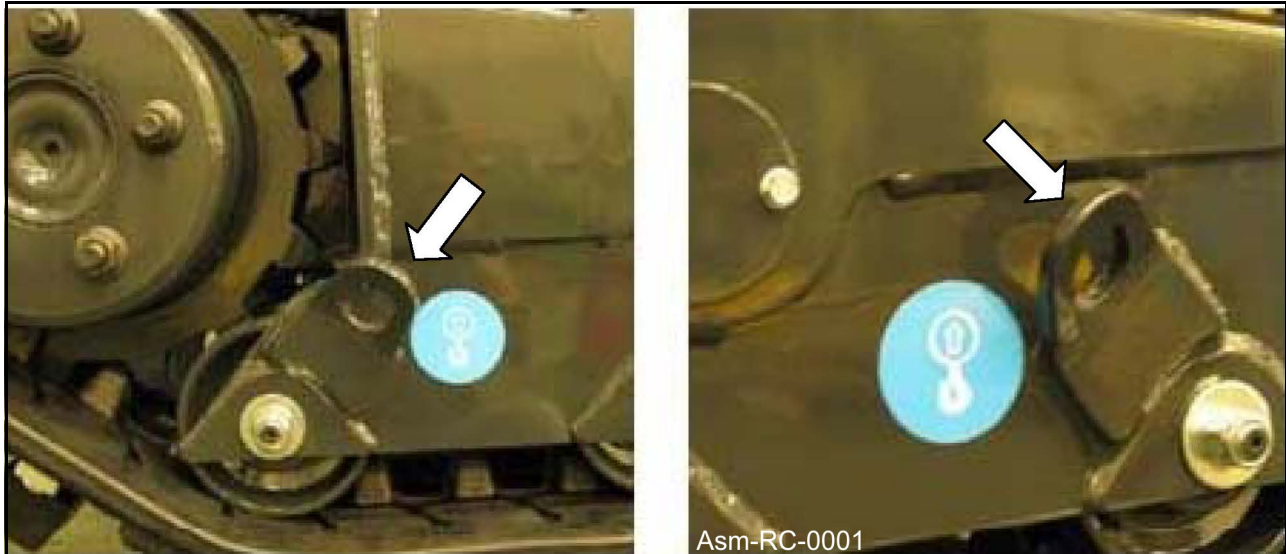
The standard items supplied are as listed below:

### STANDARD EQUIPMENT

- Machine with Mounted Receiver
- Transmitter and Battery Pack
- Reserve Battery Pack
- Batter Charger 12V CA
- Strobe Light
- Belt for the Radio Control
- Ignition Key
- Traxx RF Operator's Manual
- Traxx RF Part's Manual

### MACHINE LIFTING POINTS

The photos show the machine's lifting points; the lifting eyes are located at each end of the track plates on both sides of the machine. The positions of the lifting points enable the machine to be safely raised using suitable overhead lifting equipment.



**Note:** All equipment used to raise the machine must have a SWL in excess of the total weight of the machine. Keep all persons at a safe distance from the machine during the lifting procedure.

# ASSEMBLY

## Instructions to Uncrate Your TRAXX™ RF

**Inside of this box you will find the remote control for your TRAXX™ RF.**

- There are two batteries and a charger inside of the box as well.
- These batteries are shipped from the factory with no charge to enhance their lifetime performance.
- Before you can operate the TRAXX RF at least one of the batteries will need to be fully charged.

**Remove the charger and a battery from the box.**

- Insert the battery into the charger so the positive (+) and negative (-) poles of the battery are in contact with the positive and negative output posts of the charger.
- Plug the charger into a standard 12 volt power outlet in any vehicle or suitable 12 volt power source and apply 12 volts of power to the outlet.
- It is important that you allow the batteries to fully charge before their first use. Please allow approximately 8 hours for the full charge to ensure proper operation and enhanced battery performance.

**Attached to the roll cage is a canister containing the owner's manual.**

- Please read and understand the manual before attempting to operate this machine.

**The following standard accessories are also included inside of the crate.**

- A grease gun kit for maintaining the proper track tension.
- A towing accessories kit for use in case the machine requires towing.

**On the side of the remote there is a tag with all or part of your serial number written on it.**

- These digits should match the last three digits or all of the TRAXX RF serial number, which can be found on the inside of the right track.
- If you have purchased more than one TRAXX RF you can use this sticker to match the remotes to the TRAXX RF units.

**To remove the TRAXX RF from the crate:**

- You will need to remove and set aside all of the boxes which are touching the tracks.
- There are two chock blocks behind the tracks which will need to be removed as well.
- While they are not necessary, you may want to use ramps to get the machine out of the crate. This will preserve the condition of the crate.

# ASSEMBLY

## ASSEMBLY

**The fluids of the TRAXX RF were checked and topped off prior to shipping.**

- You should check the engine oil before starting the machine.
- The dipstick is on the left hand side of the engine.
- There is ample diesel fuel in the fuel tank for removal.

**Insert the key into the control panel and turn it to the run position.**

"The remote has to communicate with the receiver on the TRAXX RF.

"Be sure the key on the remote is on. It is located on the bottom left side.

**The emergency stop switches on the remote and the TRAXX RF must be pulled out, into the "ON" position.**

- These stop switches must be twisted approximately 1/8-turn counterclockwise before they will pop out.

**Communication must be confirmed by sounding the horn.**

- The horn button is on the underside of the remote. It is a green button.
- The engine will not start if the horn has not sounded.

**Press the start button on the remote.**

- It is typical for the mower not to start on the first try of a cold start.

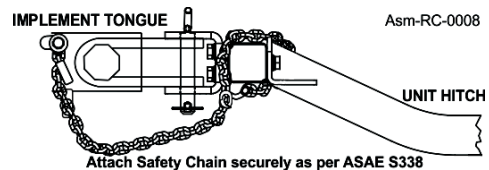


Before backing the unit out of the crate it is crucial that you raise the head enough to clear the chock blocks which are at the front of the tracks.

After you have completed these steps you will be able to go through any pre-operation procedures outlined in the owner's manual. For any further operation consult the owner's manual.

## SAFETY CHAIN

If unit is going to tow on public roads a safety chain with tensile strength equal to or greater than the gross weight of the towed implement must be connected between the Traxx unit and towed implement.



# ASSEMBLY

## TRAXX™ RF Delivery Inspection Sheet

TO BE COMPLETED BY AN AUTHORIZED DEALER

The checklist below lists the items which shipped with the TRAXX RF unit. Please inspect and account for each line item.

- ☐ TRAXX RF unit
  - Traxx unit
  - Head
  - Roll bar
- ☐ Transmitter and Battery Pack
- ☐ Reserve Battery Pack
- ☐ Battery Charger (12V CA)
- ☐ Strobe Light
- ☐ Belt for the Radio Control
- ☐ Ignition Key
- ☐ TRAXX RF Operator's manual
- ☐ TRAXX RF Part's Manual
- ☐ Grease Gun Kit
- ☐ Tow Kit
- ☐ Manual Canister
  - TRAXX RF Operator's Manual
  - TRAXX RF Part's Manual

ASSEMBLY





# OPERATION SECTION

Operation Section 4-1

# OPERATION

## OPERATION

### ALAMO INDUSTRIAL FIXED TOOTH FORESTRY FLAIL MOWER OPERATING INSTRUCTIONS

Alamo Industrial TRAXX Forestry Flail mowers are manufactured with quality material by skilled workers. These mowers are designed for maintaining grass, weeds, brush, and small trees.

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. Do not operate the mower if passersby, pets, livestock, or property are within 300 feet of the unit.

- **THROWN OBJECT SHIELDING** Front Deflectors.
- Mower is 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 TRAXX RF Fixed Tooth Forestry flail mower and are not specific to any model. Some pictures may show shields and safety equipment removed for picture clarity. NEVER operate implement without all shields and safety equipment in place and in good operational condition. The operator must be familiar with the mower and tractor 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. Refer to the Torque Chart at the end of the Maintenance Section to ensure bolts are properly tightened.

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

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



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

**SAFETY  
INSTRUCTIONS**



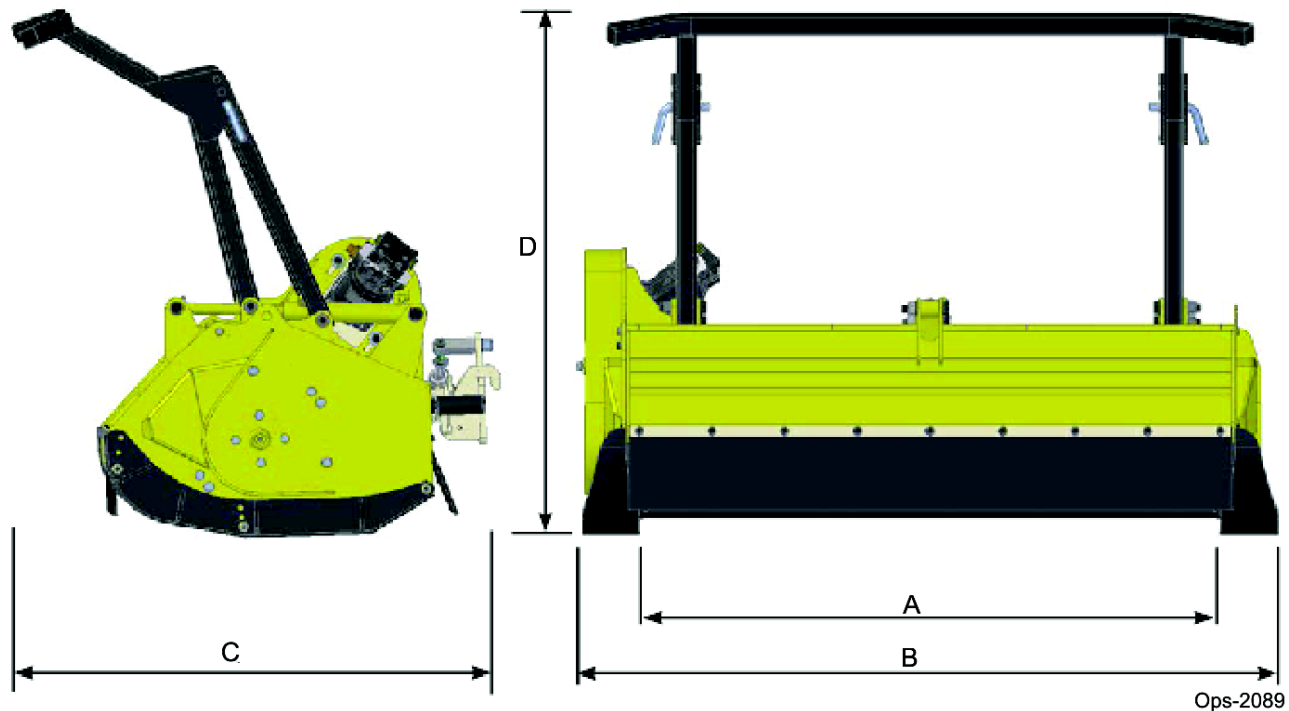
**¡ LEA EL  
INSTRUCTIVO!**



# OPERATION

# OPERATION

## 1. Standard Equipment and Specifications



### General Specifications

A - Width -- 48-1/4" (1225mm)  
B - Max. Width -- 58-1/4" (1480mm)  
C - Depth -- 36-1/2" (930mm)  
D -Height max.-- 43-1/2" (1110mm)

Max. rpm -- 2470  
Fixed Teeth -- 50  
Weight --782-1/2 lbs. (355 Kg.)

## 2. CONNECTING THE FIXED TOOTH FLAIL TO THE TRAXX RF

Use extreme caution when connecting the Fixed Tooth Forestry Mower to the TRAXX RF. The mower should be securely resting at ground level. Keep hands and feet out from under the mower and clear of pinch points between the TRAXX RF and mower.



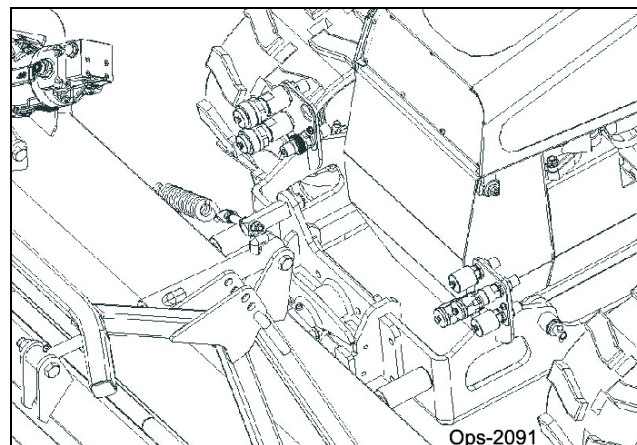
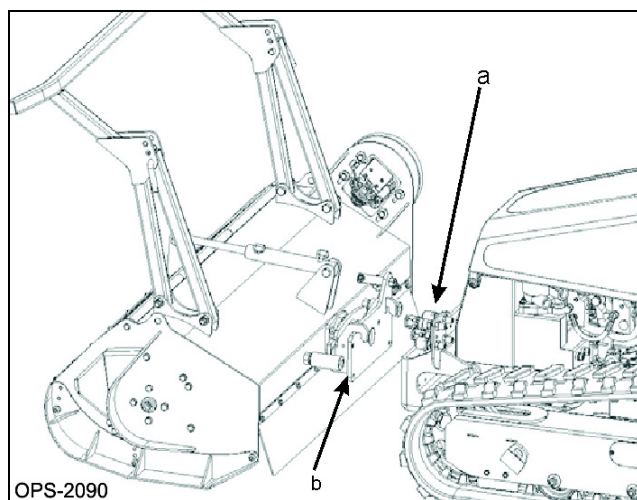
Only those implements approved for use with the TRAXX RF should be installed onto the TRAXX RF.

# OPERATION

## OPERATION

### 2.1 Connecting the Fixed Tooth Forestry Mower to the TRAXX RF

1. Follow the procedures in the TRAXX RF Operator's Manual to link the radio system of the TRAXX RF mower with the controller and follow the procedures to start the engine of the TRAXX RF.
2. Align the TRAXX RF with the approved implement such that the Front Lift Attachment is in line with the Hitch point of the approved implement as shown in OPS-2090.
3. Completely lower the front lift attachment by moving the joystick on the controller labeled "B" in the forward direction.
4. Slowly engage the drive system of the TRAXX RF by moving the Joystick labeled "A" in the forward direction until the front lift attachment of the TRAXX RF is in contract with the hitch point of the attachment to be installed.
5. Slowly raise the lift attachment of the TRAXX RF by moving the joystick labeled "B" in the rearward direction until the lift attachment is fully engaged into the hitch point of the attachment and the mounting bolt holes are properly aligned.
6. Turn off the engine of the TRAXX RF and secure the machine to prevent sudden or unexpected movement or operation.
7. Install the 6 hex head cap screws which secure the lift attachment of the TRAXX RF to the Hitch point of the attachment and torque to the specified setting as described in the torque chart.
8. Clean and attach the hydraulic fittings at the quick disconnects on the left side of the lift attachment. OPS-2091
9. Follow the procedures to start the TRAXX RF engine and test for proper operation.



#### **WARNING**

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



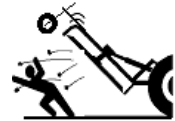
# OPERATION

## 3. 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 cause the blades to contact the ground.

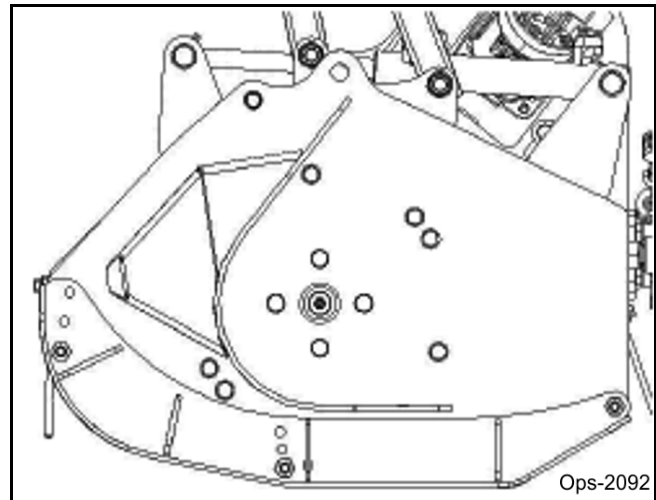


**WARNING** Do not let the Blades turn when the Mower Deck is raised for any reason, including clearance or for turning. Raising the Mower deck exposes the Cutting Blades which creates a potentially serious hazard and could cause serious injury or even death from objects thrown from the Blades. (SRM-07)



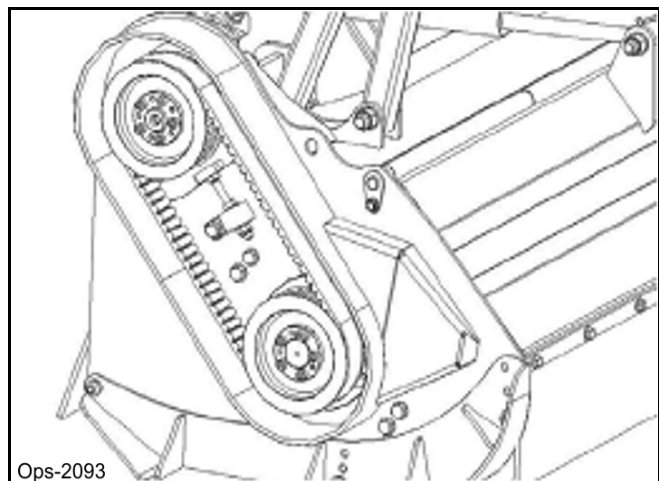
### 3.1 Adjusting Skids

Before making adjustments and fine-tuning make sure that the equipment is resting on the ground and in a horizontal position. Before using the equipment check the tightness of all the screws and the integrity of all caps. Check the flails to make sure that they never touch the ground. Any adjustment of the cutting must be done with the machine off and the rotor stopped.



### 3.2 Adjusting the Drive Belt

The drive belts used on the Forestry Mower provide a transfer of power from the hydraulic system to the cuttershaft of the mower. This allows the belts to act much like a clutch and to slip on the pulleys when the mower encounters an obstruction or is severely overloaded. Belt slippage on the pulleys results in wear, and loss of tension which translates to a loss of mowing power from the mower.



# OPERATION

## OPERATION

### **3.3 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*



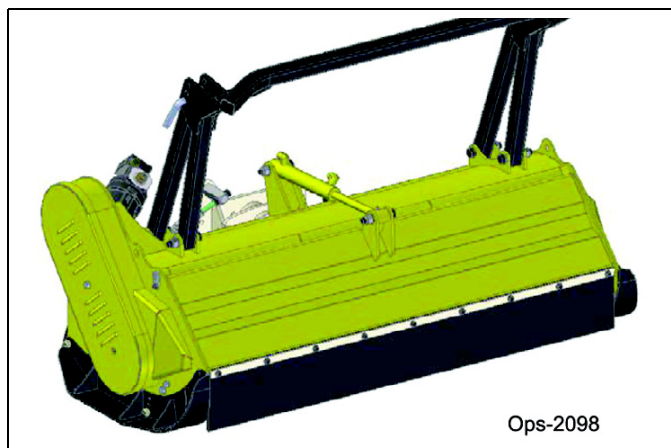
All Safety Shields, Guards and Safety devices including (but not limited to) - the Deflectors, Steel Guards, Gearbox Shields, and Retractable Door Shields should be used and maintained in good working condition. All safety devices should be inspected carefully at least daily for missing or broken components.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



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)

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.

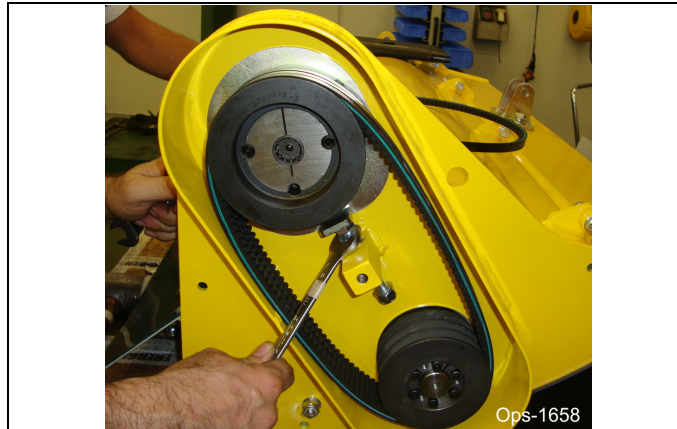
- Ensure all safety signs are in place and legible. Replace missing, damaged, and illegible decals. *OPS-U- 0011\_B*
- Ensure rubber deflectors are in position and not damaged. Replace worn, broken, and missing sections immediately.
- Ensure the rollers are in good condition and rotate freely.
- Inspect that all bolts and screws are in position and are properly torqued. *OPS-F- 0004\_C*





## OPERATION

- Inspect the condition of the drive belt.
- Ensure the mower mount and float mechanism is in working condition.
- Ensure the drive belt shield is in place and in good repair. *OPS-F- 0005\_A*



- Inspect cutter knives and knife pins for looseness and excessive wear. Make sure the mower is securely blocked up before crawling beneath. Replace damaged, worn, and missing knives as complete sets to maintain cuttershaft balance.
- Remove any grass or other debris which may be wrapped around the cuttershafts.
- Inspect the condition of deck skid shoes and hardware. *OPS-F- 0007\_B*



# OPERATION

## Flail Mower PRE-OPERATION Inspection



Mower ID# \_\_\_\_\_

Make: \_\_\_\_\_

Date: \_\_\_\_\_

Shift: \_\_\_\_\_

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

Inspection Sheet



[www.algqr.com/fmi](http://www.algqr.com/fmi)



**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.
<b>FLAIL MOWER</b>		
The Operator's Manual is in the canister on the mower		
All safety decals are in place and legible		
The hitch connection bolts & pins are tight		
There are no cracks in hitch		
Their mower deck is clear of cut grass and debris		
The thrown object guard/deflectors are in place		
Their guards/deflectors are in good condition		
The driveline/gearbox shields are in good condition		
The driveline clutch is in good condition, not frozen		
The driveline tubes & u-joints have been lubricated		
The driveline yoke is securely attached to the PTO		
The gearbox oil level is full		
Blades are not broken, chipped, cracked or bent		
Blade shackles are in good condition with no cracks		
The blade pins are properly retained		
The skid shoes are in good condition & tight		
The rear roller is in good condition and turns freely		

Operator's Signature: \_\_\_\_\_

**DO NOT OPERATE an UNSAFE TRACTOR or MOWER**



# OPERATION

## **4. MOWER STORAGE**

It is recommended that the mower be stored fully lowered to ground level.

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.
- Use spray touch-up enamel where necessary to prevent rust and maintain the appearance of the mower.



FC-RC-0004

### ***SPECIAL INSTRUCTIONS FOR EXPANSION VESSEL***

Connect Expansion Vessel with tool provided to the drainage line to discharge the internal pressure of the hydraulic motor when mower will not be in use for long periods of time. *OPS-RC-004*



Ops-2099

# OPERATION

## OPERATION

### **5. TROUBLESHOOTING GUIDE**

<b>POSSIBLE TROUBLE</b>	<b>CAUSES</b>	<b>REMEDIES</b>
System will not operate in either direction.	Oil supply low Internal pump or motor damage Foreign objects stuck in rotor Drive belt broken or belt slipping	Check pressure Disassemble, inspect and repair Remove object Replace the belt
System noisy.	Damaged or missing flail blades Worn flail blades	Check and replace flail blades Replace blades
Excessive vibration	Mud and debris wrapped around the rotor Damage done to rotor (includes bent end of shafts, missing balance weights, or actual rotor deformity from striking rocks, etc.	Clean Machine  Contact Dealer
Uneven cutting	Hammer dull or worn excessively Travel speed too fast	Replace hammer or teeth Reduce ground speed and increase rotor speed
Rotor will not turn	Faulty rotor bearing	Replace bearing(s)
Oil Leakage	Seals or hoses worn	Check and replace parts

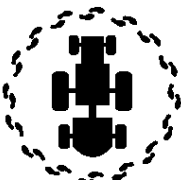
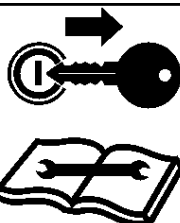
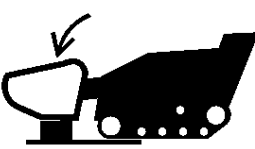


# **MAINTENANCE SECTION**

Maintenance Section 5-1

# MAINTENANCE

## MAINTENANCE

### HAZARDS WITH MAINTENANCE OF IMPLEMENT

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

#### **WARNING**

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

#### **BEFORE PERFORMING SERVICE, REPAIRS AND MAINTENANCE ON THE IMPLEMENT:**

- **STOP ENGINE**, engage parking brake, lower implement, allow all moving parts to stop and remove key.
- **PLACE** implement on ground or securely block up raised equipment. Use large blocks on soft or wet soil.

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

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

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

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

#### **BLADE INSPECTION:**

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

#### **SAFETY SHIELDS, GUARDS AND SAFETY DEVICES INSPECTION:**

- **KEEP** all Deflectors, Steel Guards, Bolts, Side Skirts and Skid Shoes in place and in good condition.
- **REPLACE** any missing, broken or worn safety shields, guards and safety devices.
- Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.
- 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.
- **DISCONNECT** hydraulic connections before servicing mower head.
- **FOLLOW INSTRUCTIONS** in maintenance section when replacing hydraulic cylinders to prevent component falling.

#### **CLEANING IMPLEMENT**

- **NEVER** clean with pressure washer electrical components such as: receiver, remote control, actuator, reversible fan air compressor, fuses and relay box.

#### **WARNING**

Operating, servicing and maintaining this equipment can expose you to chemicals including gasoline, diesel fuel, lubricants, petroleum products, engine exhaust, carbon monoxide, and phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). This website, operated by California's Office of Environmental Health Hazard Assessment, provides information about these chemicals and how individuals may be exposed to them **PN HMRCM-02**

# MAINTENANCE

## PARTS INFORMATION

### PARTS INFORMATION

Alamo Industrial 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 Alamo Industrial 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 Alamo Industrial mower parts for economy and safety. (SPAM-1)

### SEE YOUR ALAMO DEALER

**NOTE:** Before operating your TRAXX RF, take the time to inspect and repair any damage to the machine. Only a minimum of time and effort is required to regularly maintain this machine to provide long life and trouble free operation.

## CUTTER UNIT

### GENERAL MAINTENANCE

Mowing is accomplished by a series of knives which rotate at high speed on a shaft. The shaft is driven by a hydraulic motor through a set of drive belts. Belt tension is maintained by a spring-loaded idler pulley.

The cutter unit rides on a large roller assembly. The position of this roller is adjustable and will determine the cutting height of the knives.

SERVICE	DAILY (10 HOURS)	WEEKLY (50 HOURS)
Grease all points	X	
Check for loose screws or bolts	X	
Check for leakage in hydraulic system	X	
Check shaft for noise or vibrations	X	
Check for cracks in weldments		X
Check for missing parts		X

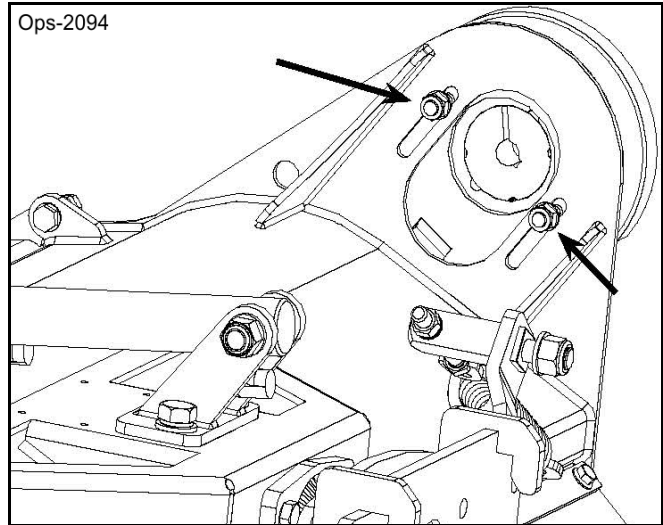
# MAINTENANCE

## DRIVE BELT TENSION ADJUSTMENT AND REPLACEMENT

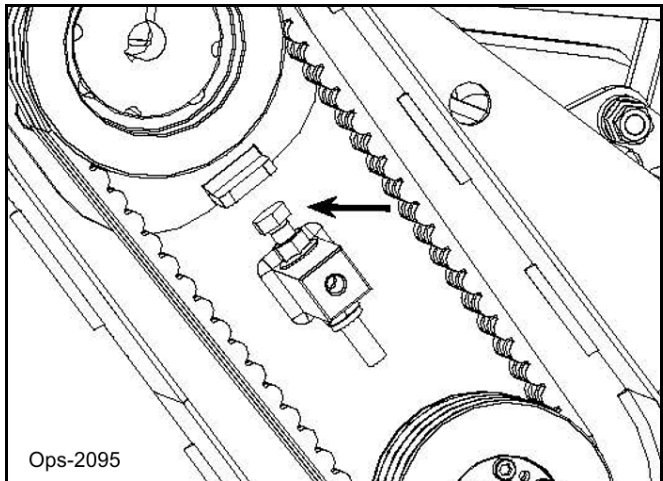
The drive belts utilized on the Traxx RF mower provide a transfer of power from the hydraulic system to the cuttershaft of the mower. This allows the belts to act much like a clutch and to slip on the pulleys when the mower encounters an obstruction or is severely overloaded. Belt slippage on the pulleys results in wear, and loss of tension which translates to a loss of mowing power from the cutter.

*Note: All belts should be replaced as sets.*

1. Resting the equipment on the ground and in a horizontal position, disconnect all hydraulic connections and remove the belt cover.
2. Loosen the hydraulic motor bolts., Loosen the bolts just enough so that the adjustment plate is free to move.

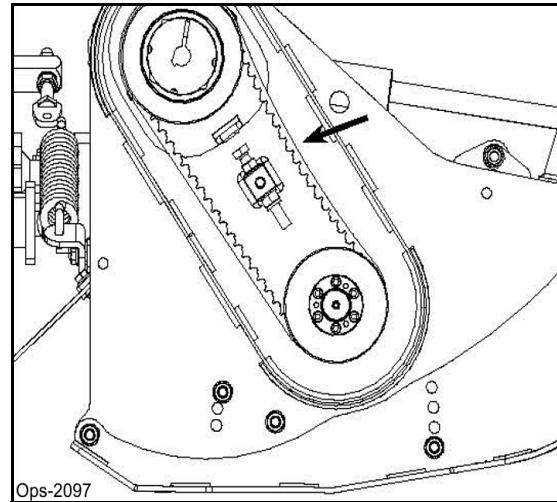


3. Loosen the adjuster locknut and turn the adjuster bolt to relieve the belt tension



# MAINTENANCE

4. Install the new belt and adjust the belt tension. Proper belt tension is indicated when 10Kg of force deflects the belt .40" (1cm).
5. Install front belt cover. Ensure that the grease fitting access hole is aligned with the grease fitting.

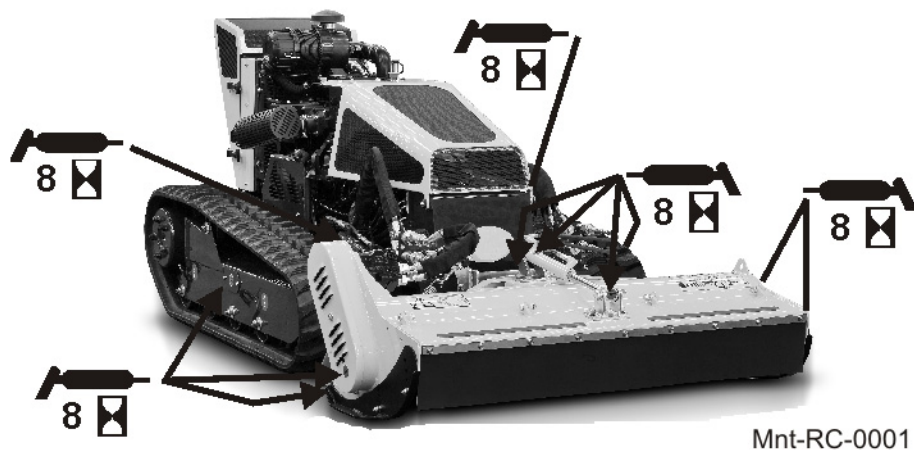


## Lubrication

Before operating the mower, make sure it is properly lubricated and thoroughly inspected. Too little lubricant will cause premature failure if a bearing. Too much lubricant usually causes high operating temperature and early failure of seals. Only a minimum of time and effort is required to regularly lubricate and maintain this machine to provide long life and trouble free operation.

Check all bolt tightness BEFORE initial operation of the mower. Re-torque all hardware after the first 4 hours of operation. A torque chart is provided at the end of the **Maintenance Section**.

*\*Note: Lubricate roller bearings until lubricant can be seen coming out between roller and bearing housing.*



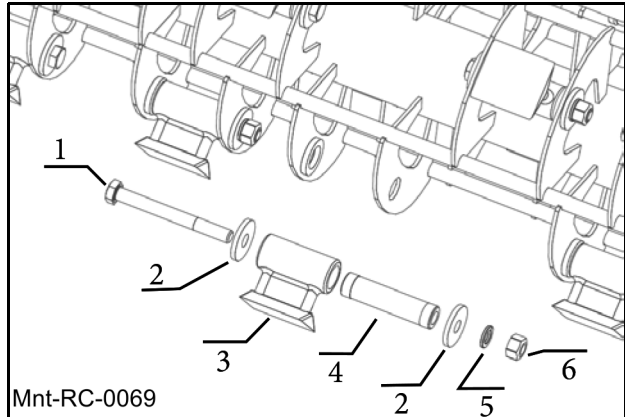
# MAINTENANCE

## BLADE INSPECTION AND REPLACEMENT

Failure to replace worn or damaged 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. Blades that are damaged may indicate severe service or abuse. If one blade is worn or damaged other blades on the same shaft will have been subjected to the same severe or abuse.

### Hammer Spare Parts:

1. Bolt
2. Spacer
3. Hammer
4. Bushing
5. Washer
6. Locknut



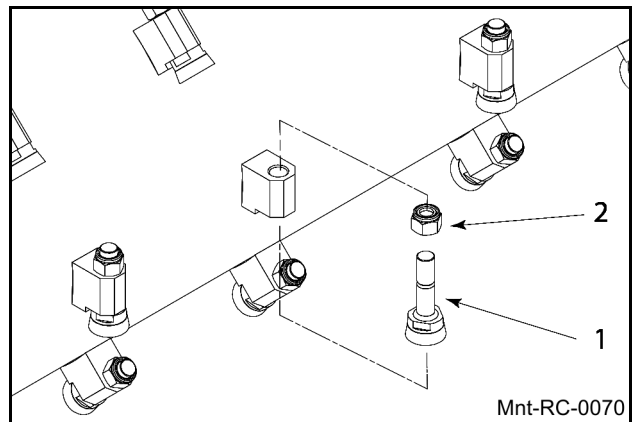
Inspect the Blades daily for abnormal wear. **REPLACE ALL BLADES** on the carrier **IMMEDIATELY** if any blades have:

- Become bent or deformed from its original shape, or
- Wear inside the blade bolt hole, or
- Any cracks are visible, or
- Deep gouges in the blade's surface are present, or
- Gouges or chipped areas in the cutting edge are larger than 1/4"(8mm), or
- The material on the leading edge has been worn away by more than 1/4"(8mm)

**DO NOT** straighten, sharpen, weld or hard-face blades

### Fixed Teeth Spare Parts:

1. Fixed Tooth
2. Locknut



### Important

Use only genuine Alamo Industrial replacement blades and fasteners. Other blades and fasteners may not meet the Alamo Industrial requirements and could fail during operation resulting in part being thrown out from under the mower.



Never attempt to sharpen blades.



# MAINTENANCE

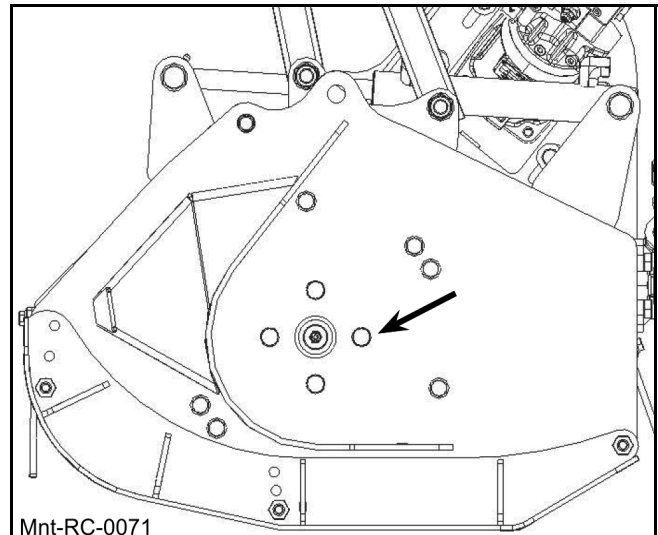
## MAINTENANCE

### CUTTERSHAFT REPLACEMENT

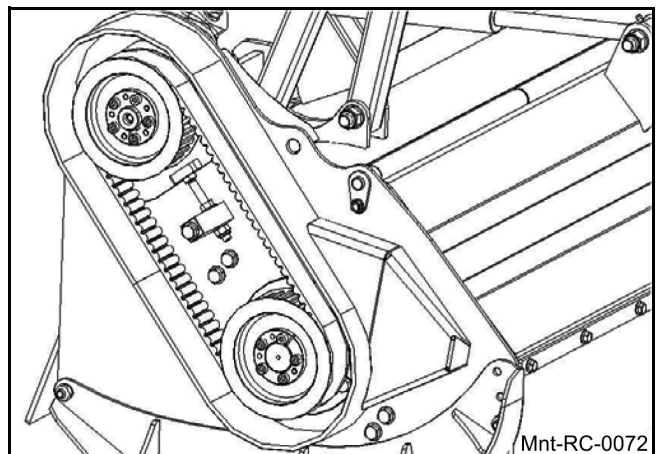
Vibration can be sign of a serious problem and if allowed to continue unchecked, can cause the complete break-up of a machine in a short life span of the cutter.

For the complete replacement of the knives or to balance, its necessary to remove the shaft from the head.

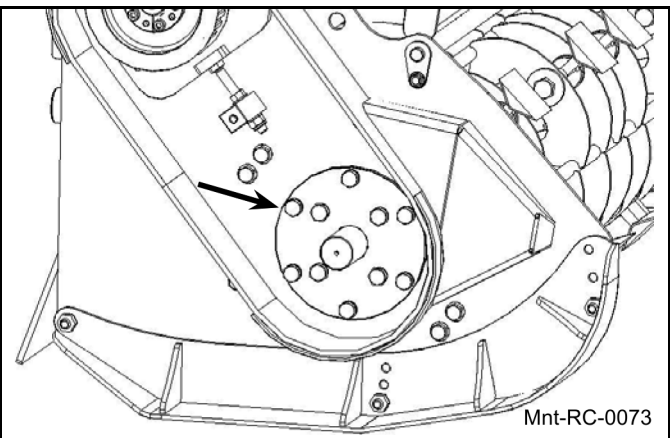
1. Loosen 4 bolts on the left side. Mnt-RC-0071



2. Remove the drive belt and remove the lower pulley.



3. Loosen all screws from the flange and remove shaft.



Securely support mower while removing and installing roller assembly. Use a crane of suitable capacity as well as ropes and chains for support.

# MAINTENANCE

## MAINTENANCE

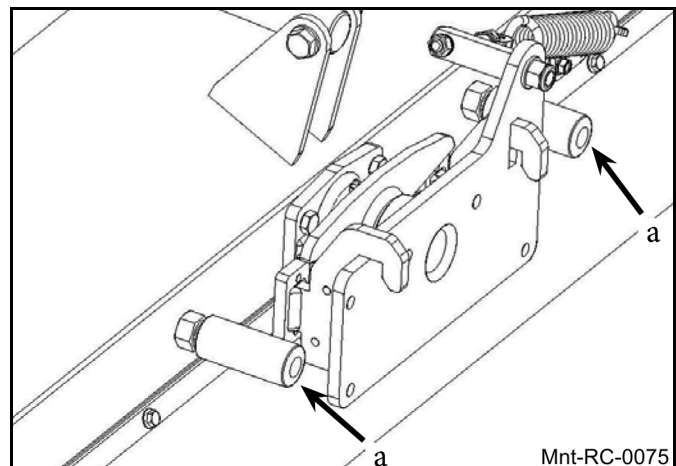
4. Reinstall the shaft in the reverse of the disassembly, taking care to replace the seal and align the pulleys.



### ADJUSTMENT OF END PINS - TO ATTACH MOWER

Two pins are placed on the equipment of the stroke end (a) to prevent rotations caused by accidental impacts.

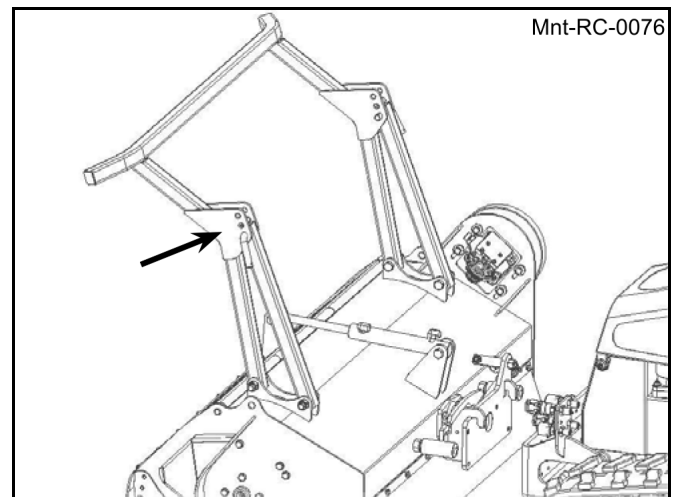
**NOTE:** The screws must always be in contact with the frame in order to avoid breakage of the central pin.



### PUSHER BAR ADJUSTMENT

This machine is equipped with a pusher bar required to push the material over and in front of the machine, to allow the material to be shredded and not fall on the machine itself.

**NOTE:** Adjusting the pusher bar requires the use of an approved lifting device to support the push bar as it is being adjusted. Remove bolt and select the hole more suitable for the use. Replace the bolt. This must be done on both sides.



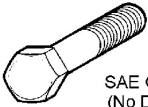
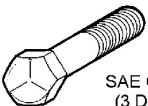


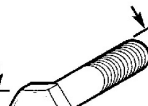
# MAINTENANCE

## 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.

TORQUE SPECIFICATIONS - DRY TORQUE					
AMERICAN					
Bolt Head Markings					
 SAE Grade 2 (No Dashes)					
 SAE Grade 5 (3 Dashes)					
 SAE Grade 8 (6 Dashes)					
 All Capscrews SAE Grade 8					
Proper torque for American fasteners. Recommended Torque in Foot Pounds (Newton Meters).*					
WRENCH SIZE (IN.) "A"	BOLT DIAMETER (IN.) "B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8	
7/16	1/4 - 20 UNC	6 (7)	8 (11)	12 (16)	
7/16	1/4 - 28 UNF	6 (8)	10 (13)	14 (18)	
1/2	5/16 - 18 UNC	11 (15)	17 (23)	25 (33)	
1/2	5/16 - 24 UNF	13 (17)	19 (26)	27 (37)	
9/16	3/8 - 16 UNC	20 (27)	31 (42)	44 (60)	
9/16	3/8 - 24 UNF	23 (31)	35 (47)	49 (66)	
5/8	7/16 - 14 UNC	32 (43)	49 (66)	70 (95)	
5/8	7/16 - 20 UNF	36 (49)	55 (75)	78 (106)	
3/4	1/2 - 13 UNC	49 (66)	76 (103)	106 (144)	
3/4	1/2 - 20 UNF	55 (75)	85 (115)	120 (163)	
7/8	9/16 - 12 UNC	70 (95)	109 (148)	153 (207)	
7/8	9/16 - 18 UNF	79 (107)	122 (165)	172 (233)	
15/16	5/8 - 11 UNC	97 (131)	150 (203)	212 (287)	
15/16	5/8 - 18 UNF	110 (149)	170 (230)	240 (325)	
1-1/8	3/4 - 10 UNC	144 (195)	266 (360)	376 (509)	
1-1/8	3/4 - 16 UNF	192 (260)	297 (402)	420 (569)	
1-5/16	7/8 - 9 UNC	166 (225)	430 (583)	606 (821)	
1-5/16	7/8 - 14 UNF	184 (249)	474 (642)	668 (905)	
1-1/2	1 - 8 UNC	250 (339)	644 (873)	909 (1232)	
1-1/2	1 - 12 UNF	274 (371)	705 (955)	995 (1348)	
1-1/2	1 - 14 UNF	280 (379)	721 (977)	1019 (1381)	
1-11/16	1-1/8 - 7 UNC	354 (480)	795 (1077)	1288 (1745)	
1-11/16	1-1/8 - 12 UNF	397 (538)	890 (1206)	1444 (1957)	
1-7/8	1-1/4 - 7 UNC	500 (678)	1120 (1518)	1817 (2462)	
1-7/8	1-1/4 - 12 UNF	553 (749)	1241 (1682)	2013 (2728)	
2-1/16	1-3/8 - 6 UNC	655 (887)	1470 (1992)	2382 (3228)	
2-1/16	1-3/8 - 12 UNF	746 (1011)	1672 (2266)	2712 (3675)	
2-1/4	1-1/2 - 6 UNC	870 (1179)	1950 (2642)	3161 (4283)	
2-1/4	1-1/2 - 12 UNF	979 (1327)	2194 (2973)	3557 (4820)	
METRIC					
 Wrench Size "A"					
Proper torque for Metric fasteners. Recommended torque in Foot Pounds (Newton Meters).*					
WRENCH SIZE (mm) "A"	BOLT DIA. (mm) "B"	ASTM 4.6	ASTM 8.8	ASTM 9.8	ASTM 10.9
8	5	1.8 (2.4)		5.1 (6.9)	6.5 (8.8)
10	6	3 (4)		8.7 (12)	11.1 (15)
13	8	7.3 (10)		21.1 (29)	27 (37)
16	10	14.5 (20)		42 (57)	53 (72)
18	12	25 (34)	74 (100)	73 (99)	93 (126)
21	14	40 (54)	118 (160)	116 (157)	148 (201)
24	16	62 (84)	167 (226)	181 (245)	230 (312)
30	20	122 (165)	325 (440)		449 (608)
33	22		443 (600)		611 (828)
36	24	211 (286)	563 (763)		778 (1054)
41	27		821 (1112)		1138 (1542)
46	30	418 (566)	1119 (1516)		1547 (2096)

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