TRAXX™ RC56™
TRAXX™ RC75™

ALAMO INDUSTRIAL
BUILT SHARPER
An Alamo Group Company

FLAILHEAD

Published 06/24

Part No. 32123674C

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 and the TRAXX RC56-75 manual before operating the equipment. *C01-Cover_TRAXX*

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***

Safety Video

www.algqr.com/ave

Alamo Industrial
1502 East Walnut
Seguin, Texas 78155
1-800-882-5762
e-mail: customerservice@alamo-industrial.com

Alamo Industrial Web Page

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

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⚠ PELIGRO

Si no puede leer inglés: antes de poner en funcionamiento este equipo, solicite que alguien le traduzca los mensajes de seguridad o vaya al sitio web para consultar los mensajes de seguridad y las etiquetas ya traducidos.

El Manual del Operador **Seguridad video**

www.algqr.com/ars www.algqr.com/avs

⚠ DANGER

Si vous ne pouvez pas lire l'anglais : avant d'utiliser l'équipement, demandez à une personne de vous traduire les messages de sécurité ou allez sur le site Internet pour voir la traduction des autocollants et des messages de sécurité.

Manuel de l'Opérateur

www.algqr.com/arf

⚠ PERIGO

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.

Manual do Operador

www.algqr.com/arp

⚠ GEFAHR

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.

D833

Benutzerhandbuch

www.algqr.com/arg

Safety Video

www.algqr.com/ave

Operator's & Parts Manuals

www.algqr.com/apm

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 down loading the manual from the *Alamo Industrial* website 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 power unit 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.

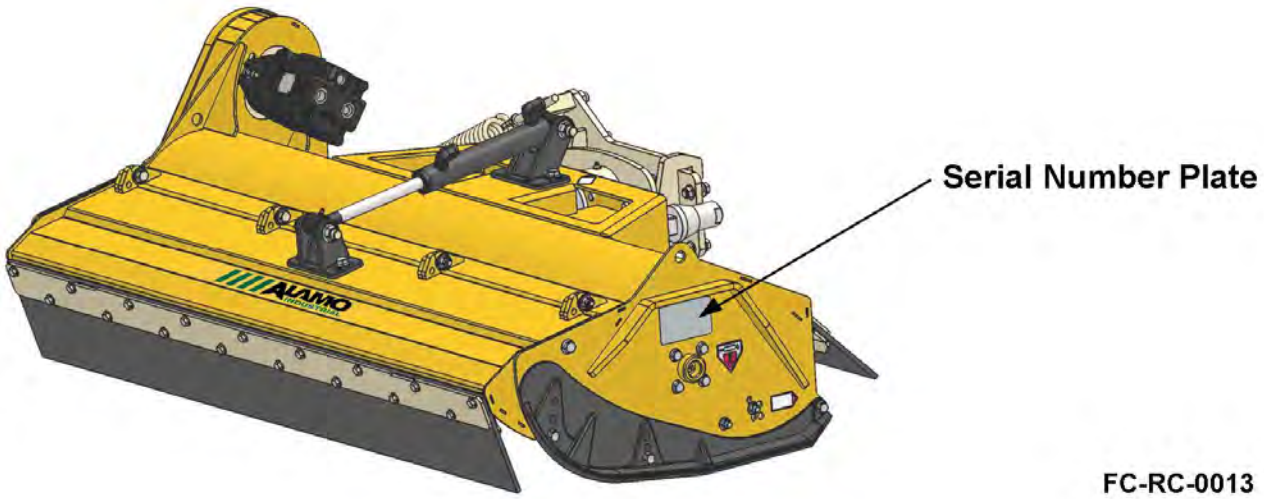
The care you give your Alamo Industrial Implement will greatly determine your satisfaction with its performance and its service life. Carefully read and follow the instructions in this manual to provide you with a thorough understanding of your new implement and its intended use and service requirements.

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 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	



Safety Video

www.algqr.com/ave

➢ BE SAFE!

➢ BE ALERT!

➢ BE ALIVE!

➢ BE TRAINED before operating the Mower!

ALAMO INDUSTRIAL

Safety Training Makes the Difference

In order to reduce accidents and enhance the safe operation of mowers, Alamo Group Ag Division, 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 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.

Alamo Group Ag. Division will provide one (1) AEM Mower Safety Practices Video

Please Send Me:

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

Requester Name:_____ Phone: _____

Requester Address:_____

City:_____

State: _____

Zip Code:_____

Mower Model:_____ Serial Number:_____

Date Purchased:_____ Dealer Salesperson:_____

Dealership Name:_____ Dealership Location:_____

Mail to:

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

Or Fax to:

(830) 372-9529

Or email to:

AEMVideo@alamo-group.com

DEALER to CUSTOMER Pre-Delivery / Operation Instructions

Dealer should inform the Purchaser of this product of Warranty terms, provisions, and procedures that are applicable. Dealer should 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 oil's 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

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SAFETY

SAFETY MESSAGES

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

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

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

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

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

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

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

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

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

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

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

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

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OPERATOR SAFETY

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

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

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

GENERAL OPERATING SAFETY

VISIBILITY CONDITIONS WHEN MOWING:

- **OPERATE IN DAYLIGHT** or with lights that 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 1 to 2 mph(1-3 kph).
- **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.

SAFETY SIGNS:

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

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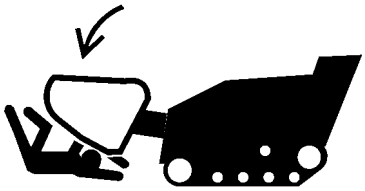
CRUSHING HAZARDS

	
Crushing injury from roll over	Crushing injury Implement falling

⚠ DANGER **TO AVOID DEATH OR SERIOUS INJURY 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.

⚠WARNING **TO AVOID EQUIPMENT FALLING while working near or under lifted implement or components raised by tractor hitch:**

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

⚠WARNING **TO AVOID CHILDREN FALLING OFF OR BEING CRUSHED BY EQUIPMENT:**

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

WHEN UNHITCHING IMPLEMENT:

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

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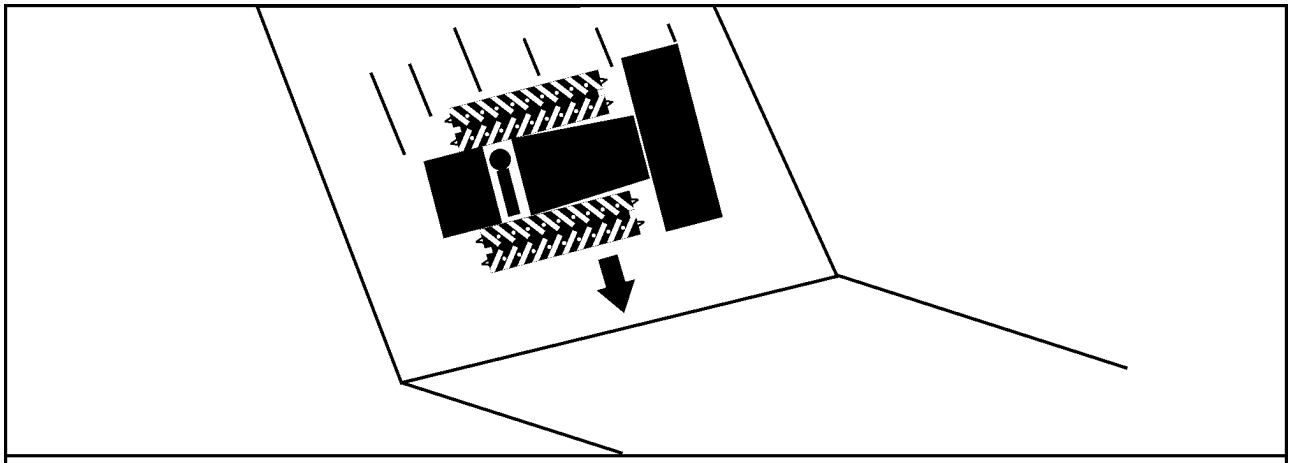
SLIDING HAZARD



Crushing injury
Implement sliding from loss of traction

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

Never attempt to operate the unit 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.

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

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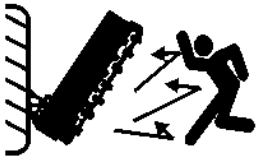
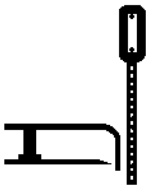
THROWN OBJECT HAZARDS

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

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

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

- KEEP bystanders 300 feet away

STOP MOWING IF PASSERSBY ARE WITHIN 300 FEET UNLESS:

- All THROWN OBJECT SHIELDING including, Front and Rear Deflectors, Chains Guards, Steel Guards, Bands, Side Skirts and Skid Shoes in place and in good condition when mowing.
- Mower sections or wing are adjusted to be close and parallel to ground without exposing blades
- MOWING AREA has been inspected and foreign materials and debris have been removed.
- DO NOT shred or mow loose or previously cut material if BYSTANDERS are within 300 feet.
- 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 that can be thrown by mower.
- **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:

- 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-01str*

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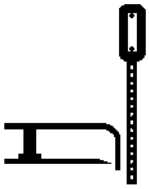
THROWN OBJECTS HAZARDS (CONTINUED)

			
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 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 position.
- **STOP** mowing when **EXCESSIVE VIBRATION** occurs:
  1. **STOP MOWER BLADES** and tractor **ENGINE.**
  2. **INSPECT** mower for vibration source.
  3. REPLACE any damaged parts and bent or damaged BLADES. *PN TORCM-02 str*

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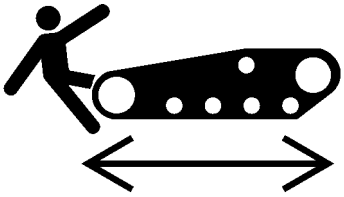
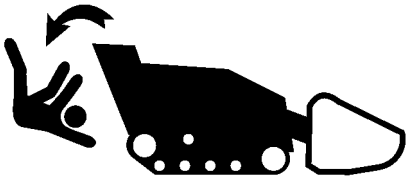
RUN OVER HAZARDS

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

⚠ DANGER **TO AVOID DEATH OR SERIOUS INJURY 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.
- **Immediately stop and shutdown** the tractor and mower if a bystander comes within 300 feet of the mower.
- **Only operate** the tractor remote control when it is properly fitted on the operator.
- **Never operate** the tractor and mower toward motor vehicle traffic. Mow in a direction away from or perpendicular to vehicle traffic.

PN RORCM-01str

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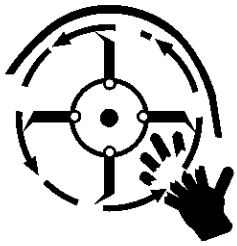
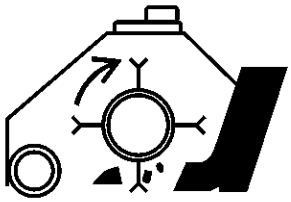
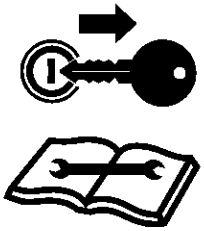
MOWER BLADE CONTACT HAZARDS

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

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

- **STAY AWAY** and **KEEP HANDS, FEET** and **BODY AWAY** from rotating blades, drivelines and parts until all moving elements have stopped.
- **DO NOT** put hands or feet under mower decks.
- **STOP** rotating **BLADES** disengage PTO and wait for blade to stop rotating before raising mower deck or wings
- **STOP LOOK** and **LISTEN** before approaching the mower to make sure all rotating motion has stopped.

PN MBFM-01 str

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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 for at least 5 minutes before slowly removing cap

WARNING **TO AVOID DEATH OR SERIOUS INJURY 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 with side shields (marked with ANSI Z87) and impenetrable gloves.
- **USE** paper or cardboard to search for leaks.
- **DO NOT USE** hands or body parts to search for leak.
- **KEEP** hands and body **AWAY** from pin holes and nozzles ejecting hydraulic fluid.
- 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 str*

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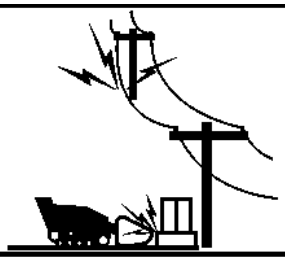
ELECTRICAL & FIRE HAZARDS

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

- **INSPECT** mowing area for overhead or underground electrical power lines, obstructions, gas lines, cables and Utility, Municipal, or other type structure.
- **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 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.
- **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-01str

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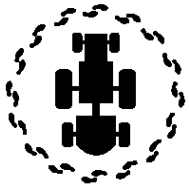
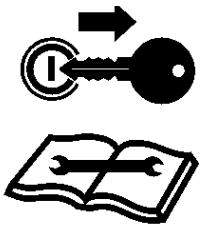
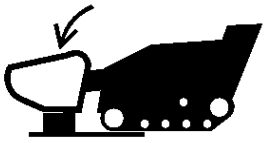
HAZARDS WITH MAINTENANCE OF IMPLEMENT

				
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 DEATH OR SERIOUS INJURY FROM COMPONENT FAILURE BY KEEPING IMPLEMENT IN GOOD OPERATING CONDITION BY 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 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 MAINTENANCESECTION:
- **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
- **TORQUE** all bolts and nuts as specified.
- **NEVER** lubricate, adjust or remove material while it is running or in motion.

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 Cancer and Reproductive Harm www.P65Warnings.ca.gov. *PN HMRCM-02str*

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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-1str)

See Your Alamo Dealer

Operator’s & Parts Manuals

www.algqr.com/apm

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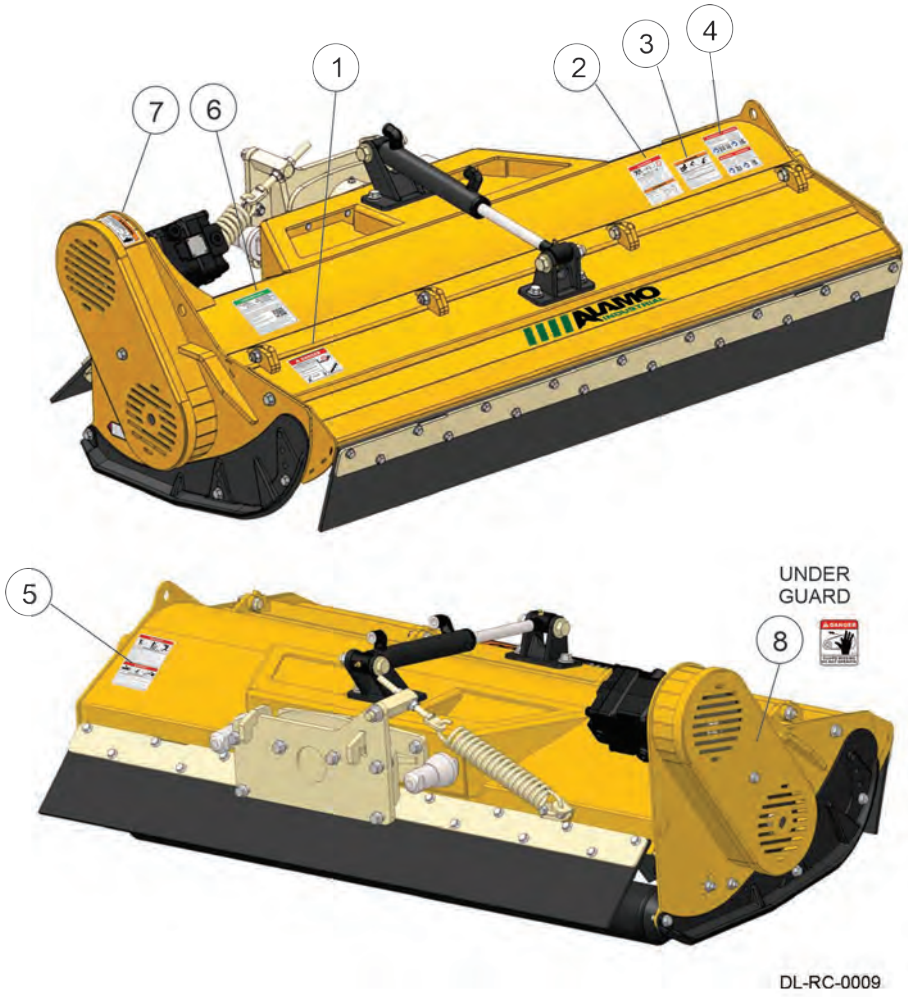
DECAL LOCATION

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. Contact your Alamo Industrial dealer to order replacement decal



ITEM	PART NO.	QTY	TYPE	DESCRIPTION
1.	D626	1	DANGER	Thrown Object Hazard
2.	D776	1	WARNING	Multiple-Hazard Thrown Objects
3.	D617	1	WARNING	Multi-Hazard Oil Leak
4.	D833	1	DANGER	Multi-Language
5.	D996	1	DANGER	Multi-Hazard
6.	D780	1	IMPORTANT	Safety Mower Training
7.	D641	1	WARNING	Pinch Hazard
8.	D773	1	DANGER	Guard Missing - Do Not Operate

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DECAL DESCRIPTION

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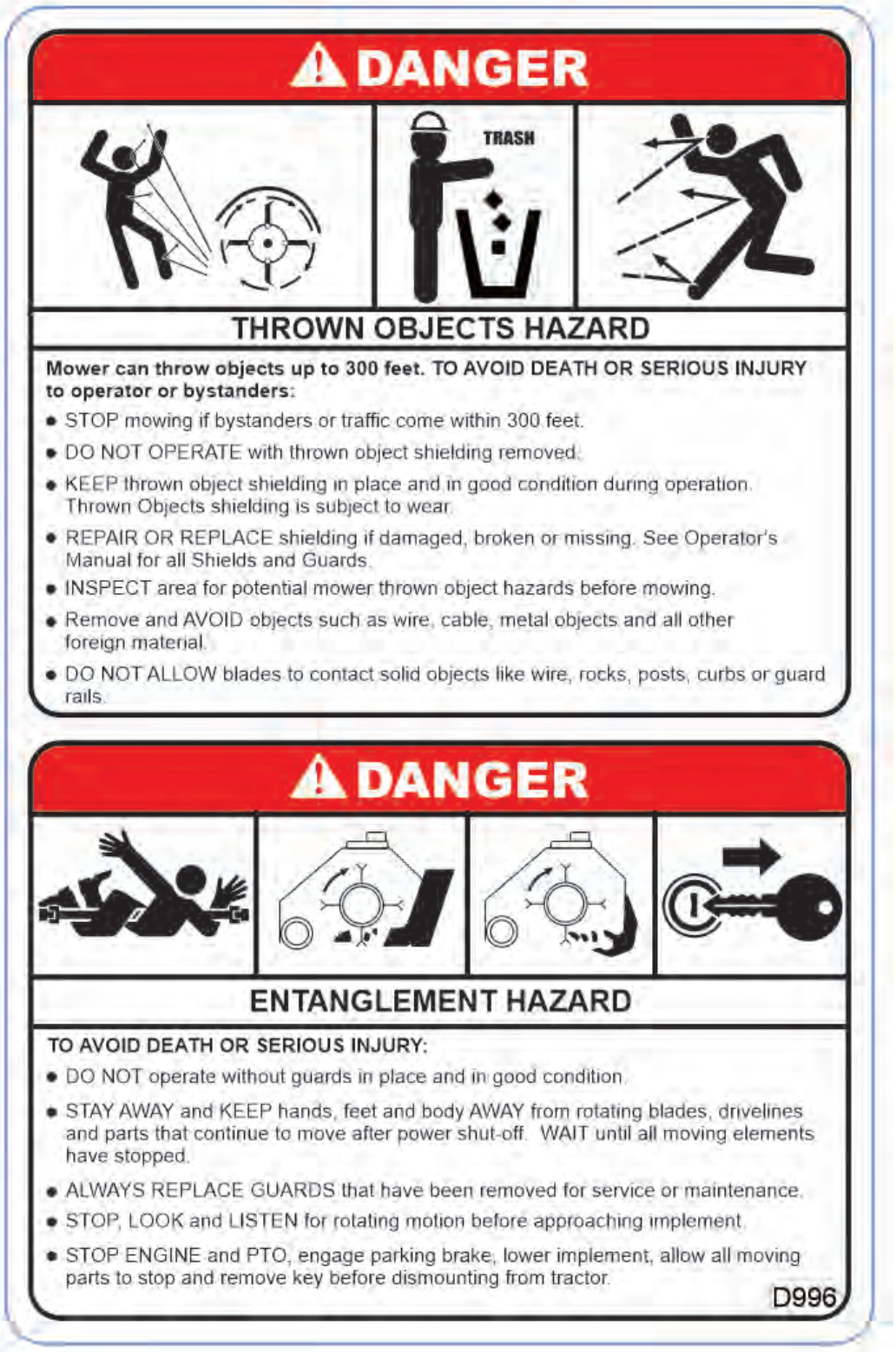

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IMPORTANT

BE AWARE
BE ALERT
BE ALIVE

BE TRAINED
Before Operating this Mower

To prevent serious injury to yourself and/or bystanders, be trained in Safe Mowing Practices.

Alamo Group Companies as well as AEM and FEMA provide training material that is critical for your Safety and the Safety of others when operating this equipment. Make these Safety Procedures an important part of every workday.

Read and understand the Operator's Manual.

Do not let untrained individuals operate this equipment.

www.algqr.com/aivi

Contact your Dealer, AEM (www.aem.org), FEMA (314-878-2304, www.FarmEquip.org), or Alamo Group (www.Alamo-Group.com) for information on training material or courses that provide training in Safer Operating Practices for Mowers.

D780

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SAFETY

FEDERAL LAWS AND REGULATIONS

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

Employer-Employee Operator Regulations

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

This Act Seeks:

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

DUTIES

Sec. 5 (a) Each employer-

(1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA Training Requirements

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

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

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

Permit no riders on equipment.

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

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

Employer Responsibilities:

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

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

Child Labor Under 16 Years of Age

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

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INTRODUCTION SECTION

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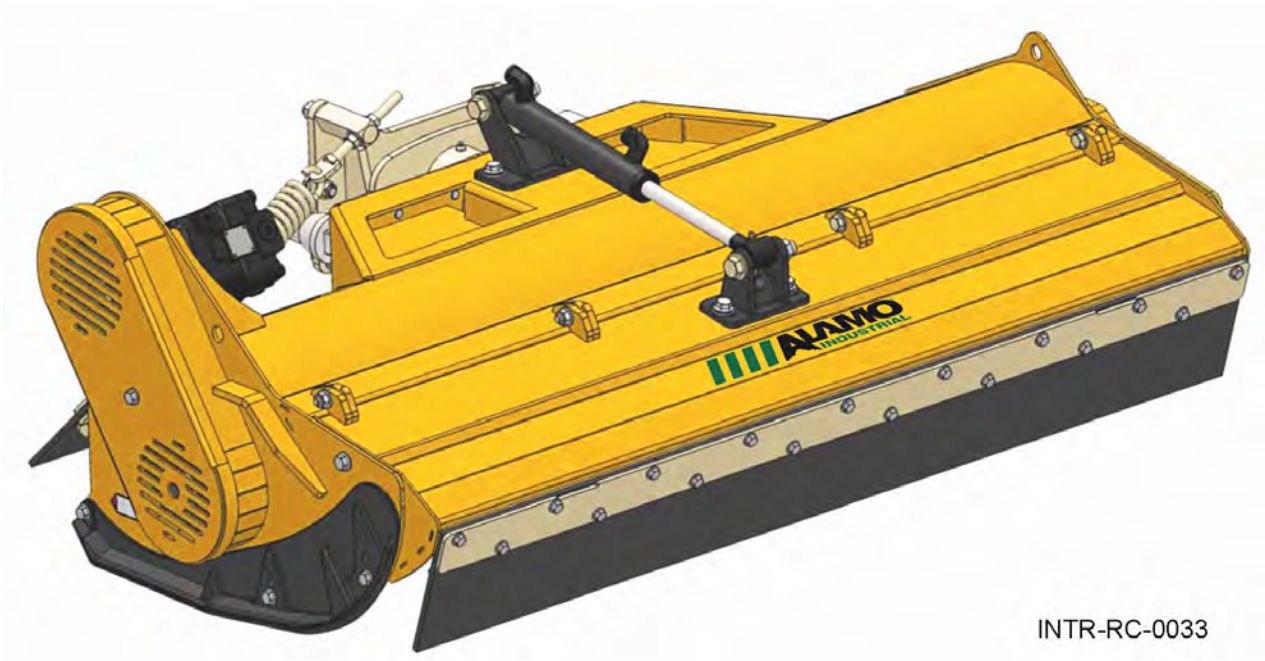
INTRODUCTION



INTR-RC-0033

The Traxx Flailhead is a high performance grass flailhead specifically designed for use with TRAXX remote controlled tracked carrying vehicles.

Machines are equipped with 3000 rpm energy-efficient spiral rotors that can be fitted with hammer flails or back-to-back grass Y-flails. Machines are available in working widths of 4.25' (1.3m), 5.25' (1.6m) and 6.25' (1.9m) and feature a hydraulic front hood and adjustable float.

Machines must only be used to perform tasks for which they were specifically designed; use of the machines for any other reason could be dangerous to persons and damaging to the machine.

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 Traxx Flailhead must not be used by minors, untrained and unqualified personnel.

Literature Page

www.algqr.com/arl

⚠ DANGER **The TRAXX RC 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.

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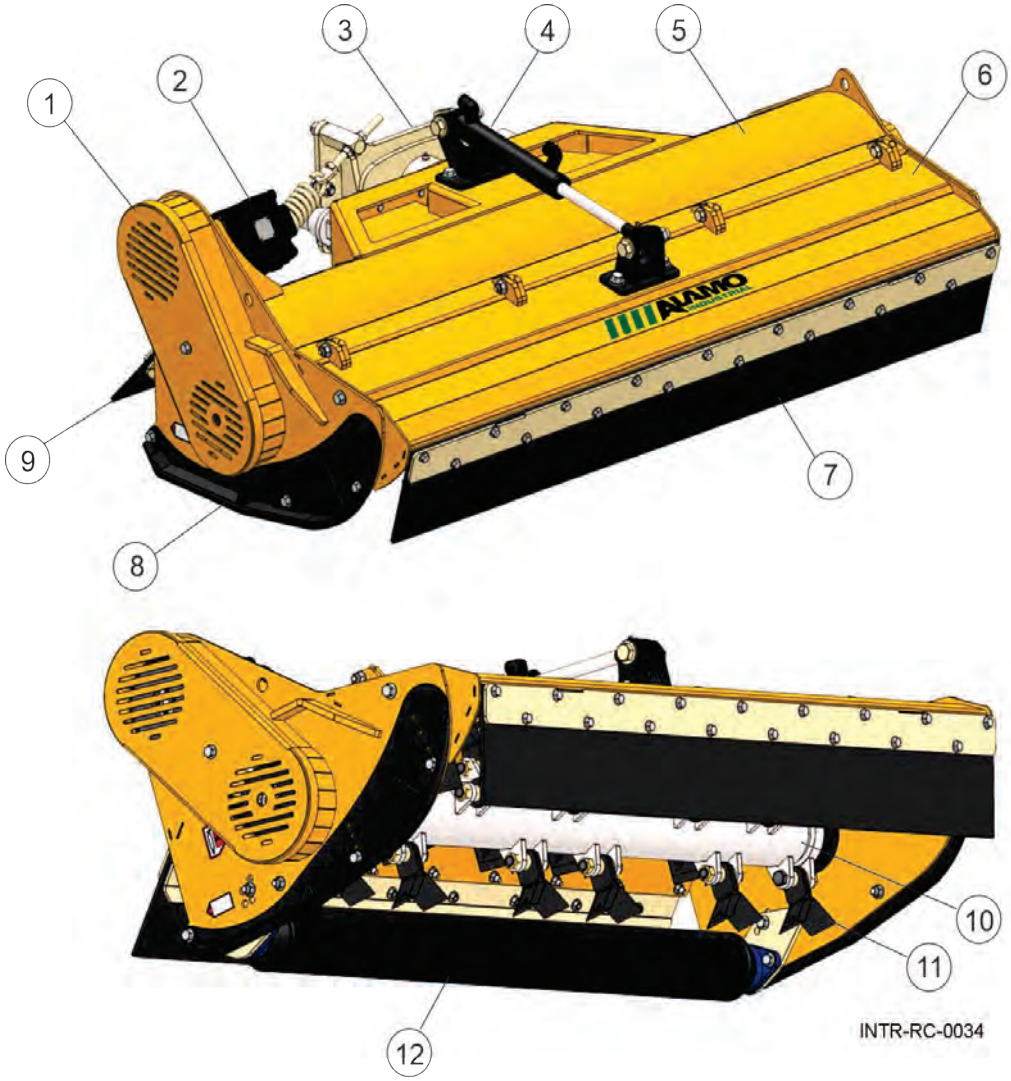

TRAXX FLAILHEAD COMPONENTS

1. Belt Drive
2. Front Cover
3. Mounting
4. Hood Ram
5. Casing
6. Hood
7. Front Guard
8. Side Skid
9. Rear Guard
10. Rotor
11. Flails
12. Roller

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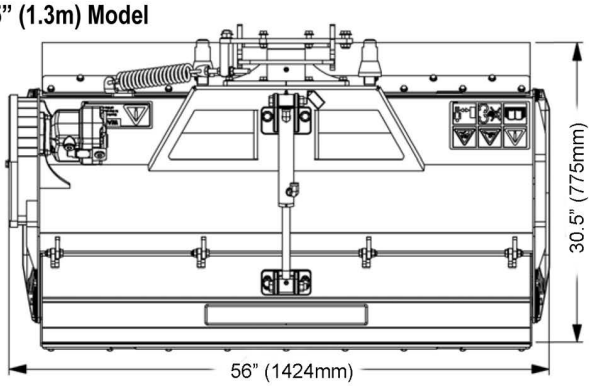
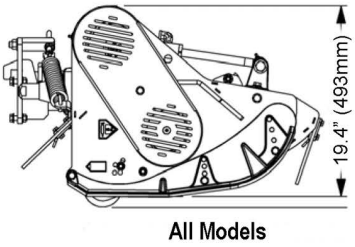
INTRODUCTION

SPECIFICATIONS

- Available in 4.25’ (1.3m), 5.25’ (1.6m) or 6.25’ (1.9m) working widths
- Belt driven rotor
- Hydraulic front hood
- Choice of grass cutting flails or hammer flails
- Full width height adjustment rear roller
- Height adjustment skids
- 1.18”” (30mm) cutting capacity
- 0.78” - 3.35” (20-85mm) cutting height
- +/- 14 degrees head angling and flotation
- 3000 RPM rotor speed
- 56HP and 75 HP builds

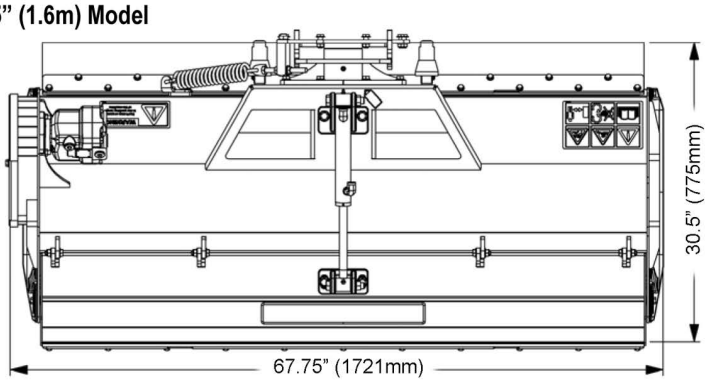
4.25” (1.3m) Model



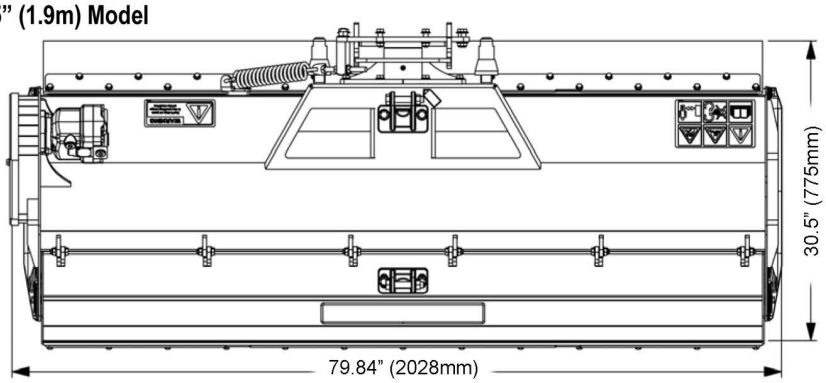


All Models

5.25” (1.6m) Model



6.25” (1.9m) Model



INT-RC-0003

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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.

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OPERATION SECTION

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OPERATION

ALAMO INDUSTRIAL TRAXX FLAILHEAD OPERATING INSTRUCTIONS

ALAMO INDUSTRIAL TRAXX Flailheads are manufactured with quality material by skilled workers. These flailheads are designed for maintaining grass, weeds, brush and small trees. For best results operate the machine as low to the ground as possible without the flails or hammers striking the ground or other obstructions. Lifting or tilting the flailhead increases the risk of flying debris.

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 Flailhead, or TRAXX RC. Do not operate the implement if passersby, pets, livestock, or property are within site of the unit.

This section of the Operator's Manual is designed to familiarize, instruct, and educate safe and proper implement 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 Flailhead. The operator must be familiar with the Flailhead and TRAXX RC operation and all associated safety practices before operating the Flailhead and TRAXX RC. Proper operation of the Flailhead, as detailed in this manual, will help ensure years of safe and satisfactory use.

IMPORTANT: To avoid implement damage, re-torque all bolts after the first 10 hours of operation.

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

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

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

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1. OPERATOR REQUIREMENTS

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

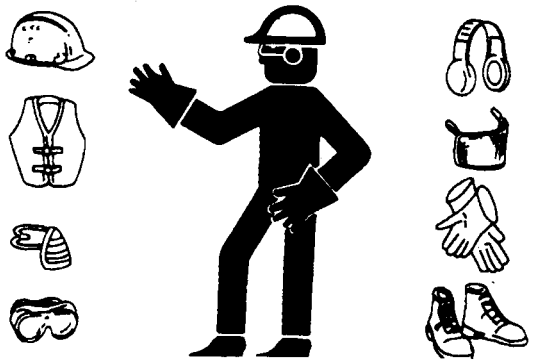
If the operator cannot read the manuals for themselves or does not completely understand the operation of the equipment, it is the responsibility of the supervisor to read and explain the manuals, safety practices, and operating instructions to the operator.

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

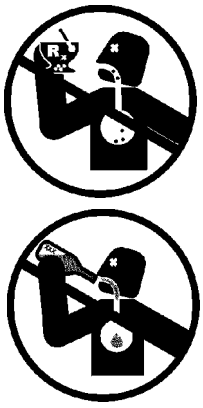
PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

OPS-U- 0002str



⚠ DANGER DO NOT use drugs or alcohol immediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. Before operating the Tractor or Implement, an operator on prescription or over-the-counter medication must consult a medical professional regarding any side effects of the medication that would hinder their ability to operate the Equipment safely. NEVER knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol. *(SG-27) str*



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2. CONNECTING THE FLAILHEAD TO THE TRAXX RF

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

⚠WARNING Attachment of the flailhead should be performed on a firm level site. Ensure all bystanders are kept at a safe distance from machinery.

⚠ DANGER Keep hands clear of potential pinch points when attaching machinery. Suitable personal protection gear should be worn when working with machines.

On machines mounted with a **grass flailhead**, the hood warning screen will always be displayed on start-up; it is the operator's responsibility to ensure all safety conditions are met before selecting the option to activate the hood. Operators of this machine are responsible for the safety of all persons and property in the vicinity of the working machine; if doubt exists work should only be performed with the hood de-activated.

⚠WARNING Refer to the Traxx RC56/RC75 Operator's Manual for complete instructions on starting, stopping and driving the machine prior to attempting connection of the flailhead.

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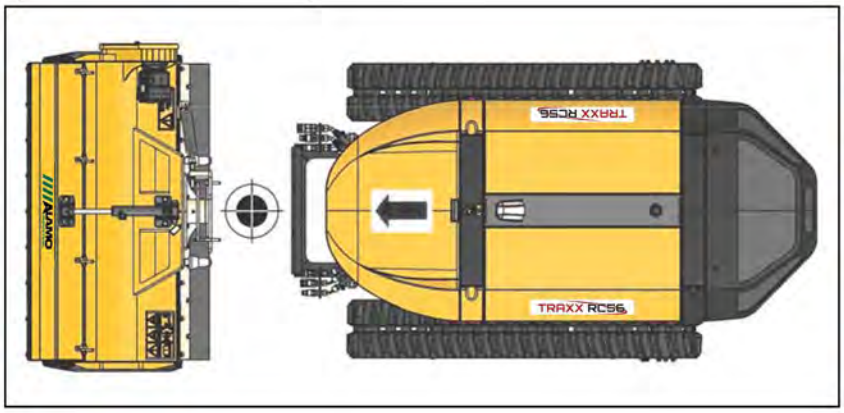
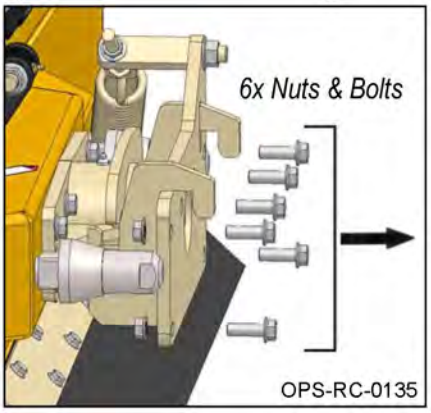
2.1 Attachment Procedure

Tools Required: 3/4” (19mm) Wrench

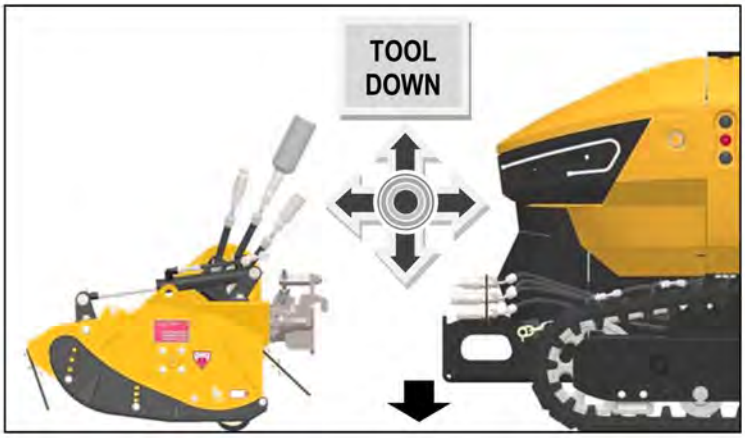
1. Position Traxx RF square and centered to the flailhead.

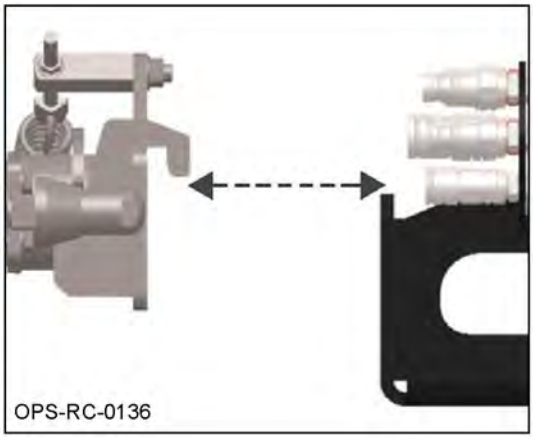


2. Remove flailhead fittings.

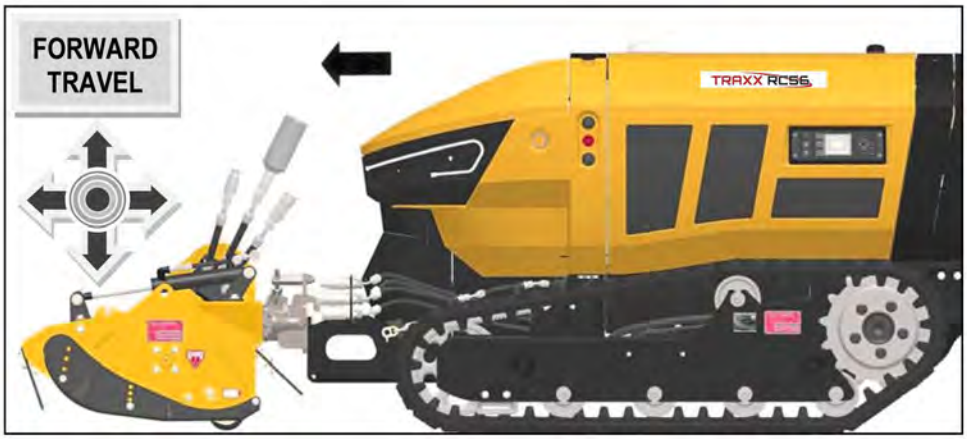


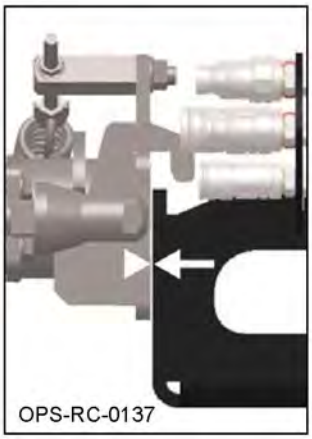
3. Lower Traxx RF toolbar to a height that is lower than the lugs on the flailhead mounting bracket.





4. Drive Traxx RF slowly forwards until it is in contact with the flailhead mounting bracket.





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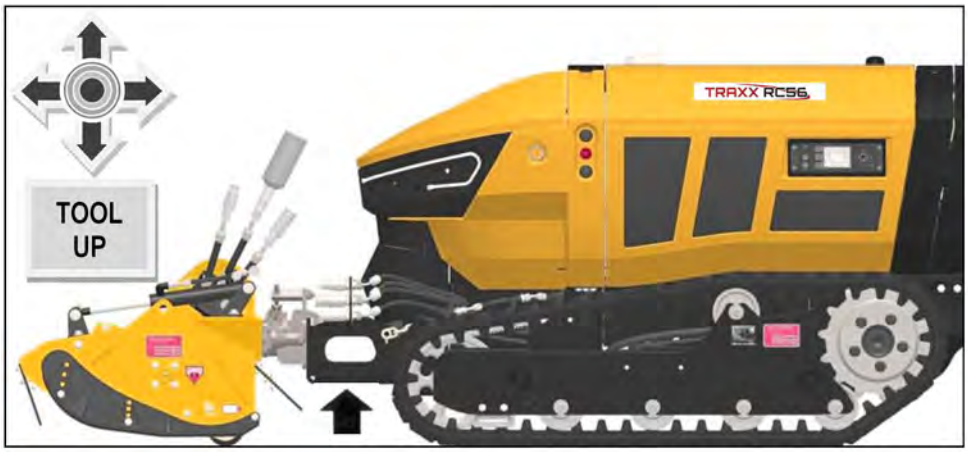
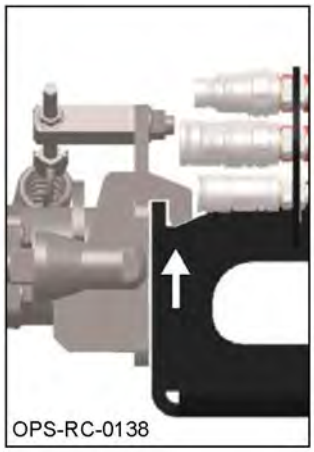
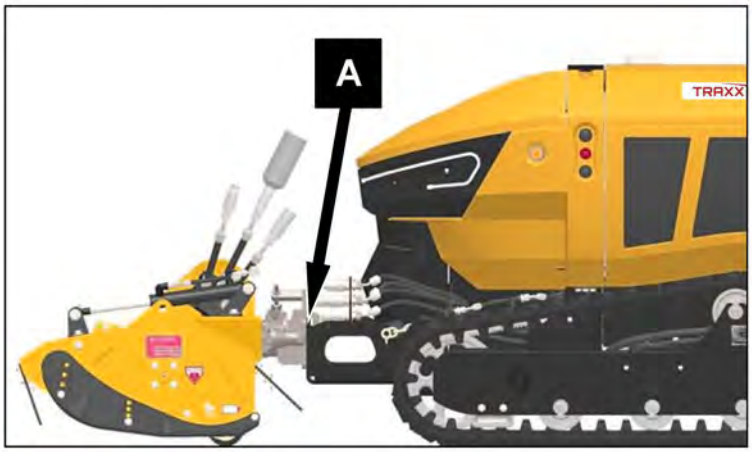
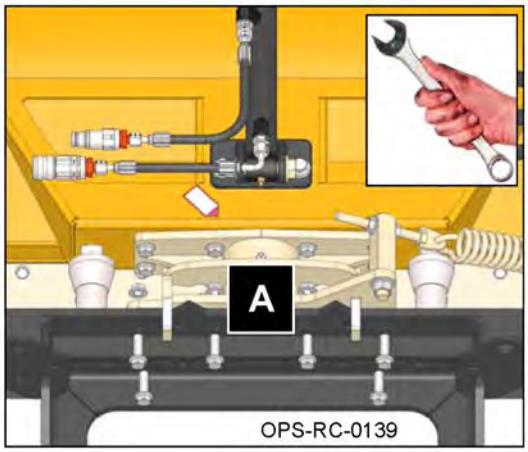
5. Raise Traxx RF toolbar to connect with lugs on flailhead mounting bracket.



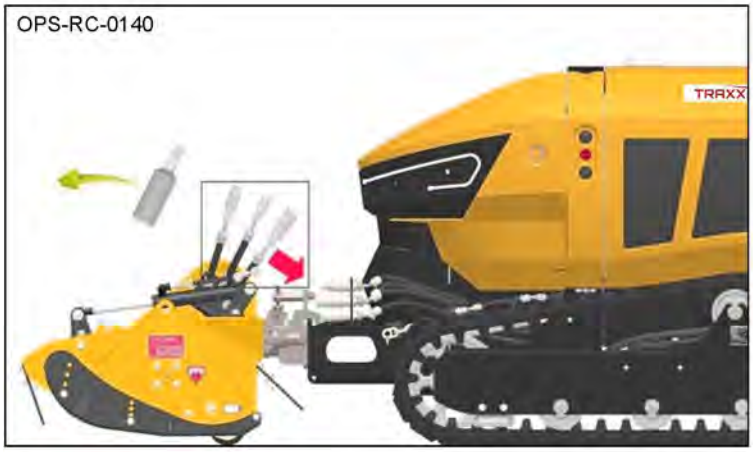


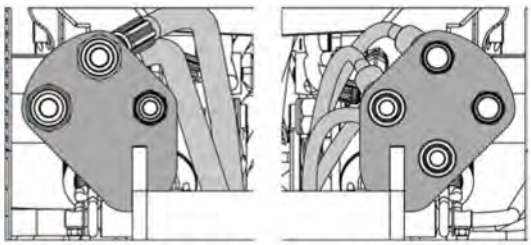
6. Fasten flailhead to Traxx RF toolbar using flailhead fittings (6x nuts and bolts). Tighten fittings securely.





7. Remove expansion vessel from drain line and connect flailhead hoses to the Traxx RF hydraulics.





Refer to the hydraulic connections page for hydraulic coupling information.

Store expansion vessel in a safe location; it must be refitting to the drain line whenever the flailhead is removed from the machine.

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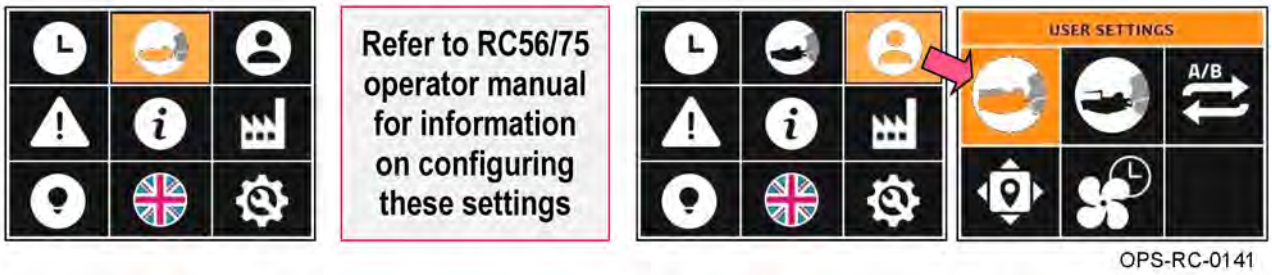
8. Configure the following settings in the Traxx RF control panel:
Attachment Settings: attachment type and width. **Float settings:** float calibration (initial install only)



2.2 Removing the Flailhead

Removal of the flailhead is a reversal of the attachment procedure. Select a firm level site on which to remove and store the flailhead.

3.HYDRAULIC CONNECTIONS

3.1 Hydraulic Connection Points

Traxx RC56 and Traxx RC75 hydraulic connection points for flailhead attachment.

⚠ CAUTION Ensure hydraulic couplings on the machine and the attachment are free from dirt or debris - check and clean all couplings prior to connection.

Ensure that the hydraulic hoses for the hood ram are attached to the correct connection points (D & E) as indicated in the diagram above. The pressure and drain line hoses (A, B & C) can only be attached on their corresponding connections. Connections F & G are reserved for auxiliary use.

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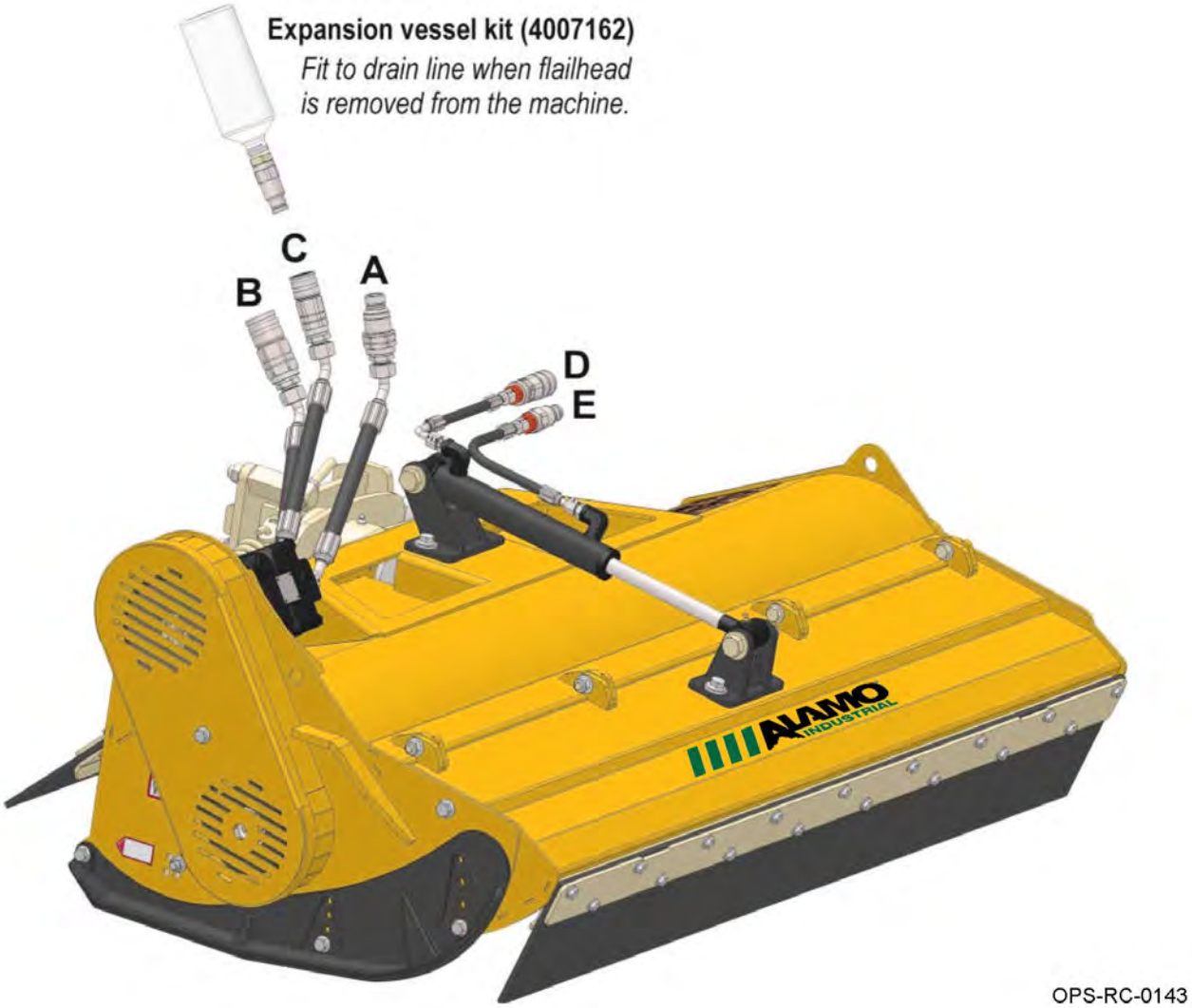
3.2 Flailhead Hose Connection



OPS-RC-0143

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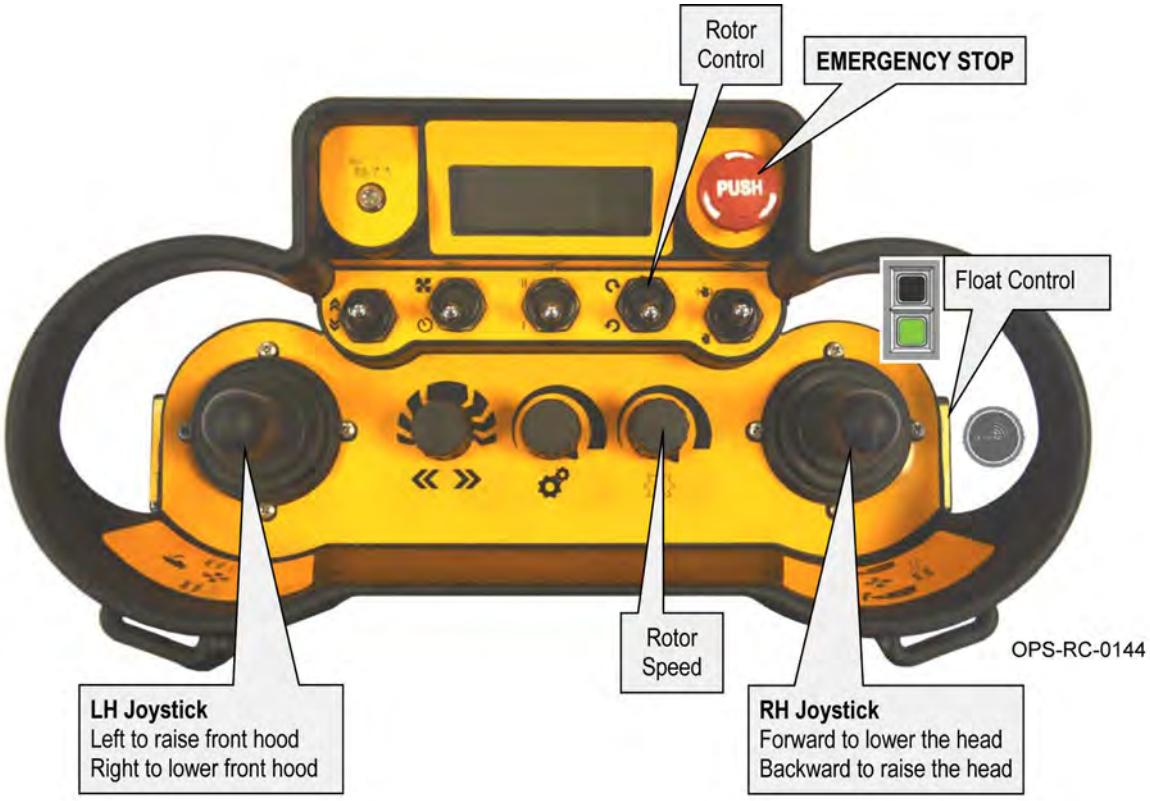
4. FLAILHEAD CONTROLS

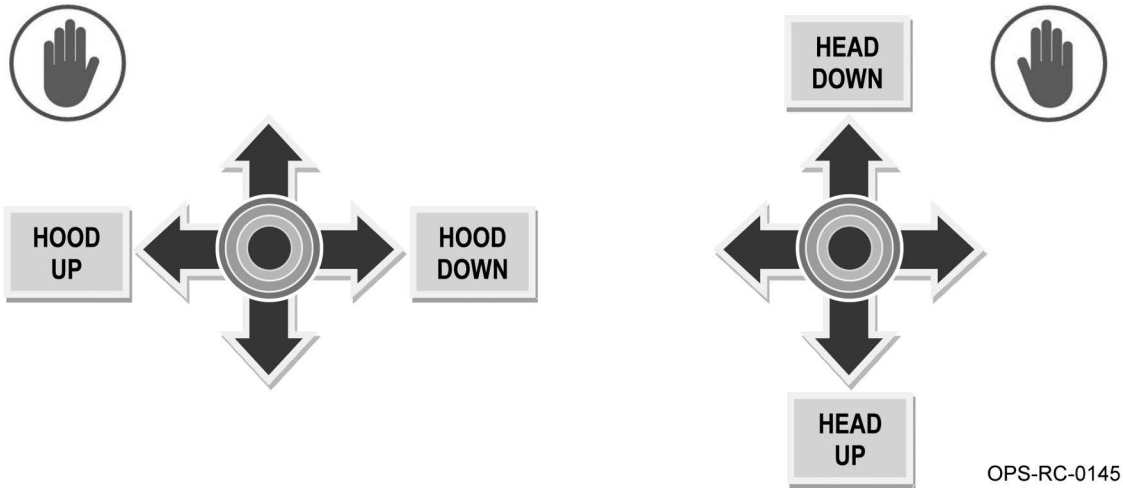
DANGER Operators must wear personal safety gear at all times while operating the machine and stand in a safe operating position with a clear view of the machinery and the work area.

4.1 Controls Identification for Flailhead Operation

Refer to the Traxx RC56/RC75 Operation Manual for complete details of machine controls.



4.2 Joystick Controls for Flailhead Operation (Default)



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4.3 Control Unit - Display Screen and Flailhead Function Operation

LCD Display
Reports the following information;

Status Light
Indicates the status of the Remote Control Unit;
Illuminated **GREEN** = '**CORRECT**' Status.
Illuminated **RED** = '**PROBLEM**' Status.

Emergency Stop Button
'Push' button for 'EMERGENCY STOP'
Rotate clockwise to 'Reset'

Rotor Control Switch
Rotor direction ON and OFF control;

Rotor ON (Uphill): Place switch in 'UP' position to start the rotor 'uphill'

Rotor OFF: Place switch in the central position to 'STOP' rotor

Rotor ON (Downhill): Place switch in 'DOWN' position to start the rotor 'downhill'

Rotor RPM Control Dial (Potentiometer)
Controls the rotor speed;

Increase Rotor RPM: Rotate control dial clockwise
Decrease Rotor RPM: Rotate control dial anti-clockwise

Float Control Button

Press AUX **Button:** Activation/deactivation of 'float' feature.

OPS-RC-0146

Important The control information shown in this manual relates to operation of the flailhead only; for details of all the controls refer to the Traxx RC56 & RC75 operator manual.

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5.FRONT HOOD

The Flailhead is fitted with a hydraulic ram to allow movement of the hinged hood, **by default on every start-up movement of this ram is electronically deactivated** to stop operators inadvertently opening the hood when cutting alongside the highway; this reduces the risk to passing traffic from being hit by objects ejected at speed from the working flail head. It should be noted that with the hinged hood opened objects could be thrown a considerable distance. Being struck by a thrown object could result in injury or death.

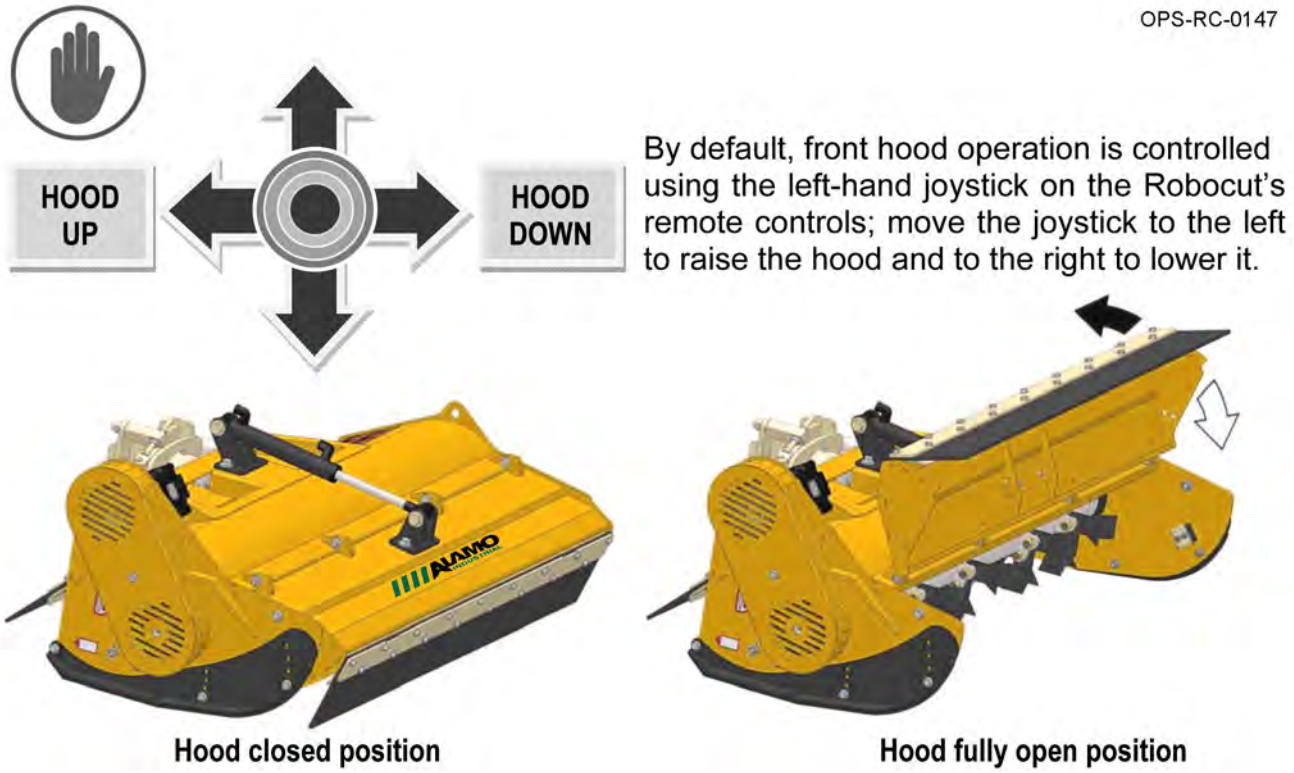
⚠ DANGER By default, the hood ram on a flailhead is electronically de-activated at every start-up to prevent inadvertent opening of the hood when working in the vicinity of highways and public area. It must never be activated when operating in these types of areas.

If the machine is being used away from the highway, where other vehicles and bystanders are not normally in the vicinity, the hood ram function may be activated provided the general safety information and following specific conditions are met:

- **A detailed work area and bystander risk assessment is undertaken before work begins.**
- **The operator has been trained in the safe use of the Traxx and Flailhead.**
- **All pre-work checks stated in this manual have been fully performed.**

Important Refer to the Traxx RC56 & RC75 operator manual for complete details on hood activation/ deactivation.

5.1 Hood Operation



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The hood is capable of being raised to any position between fully closed and fully open. When operating the machine with the hood open, it should only be raised to a position that is slightly above the height of the material being cut; this will allow material to freely enter the head whilst offering maximum possible protection. Always close the hood fully before stopping the machine.

⚠ DANGER **The machine must only be operated with the hood raised when all safety conditions for working with the machine in this mode have been met: if safety doubts exist, the machine must only be used with the hood fully closed.**

6.REAR ROLLER AND SIDE SKIDS

⚠WARNING Adjustment of the rear roller and side skids should be performed on a firm, level site.

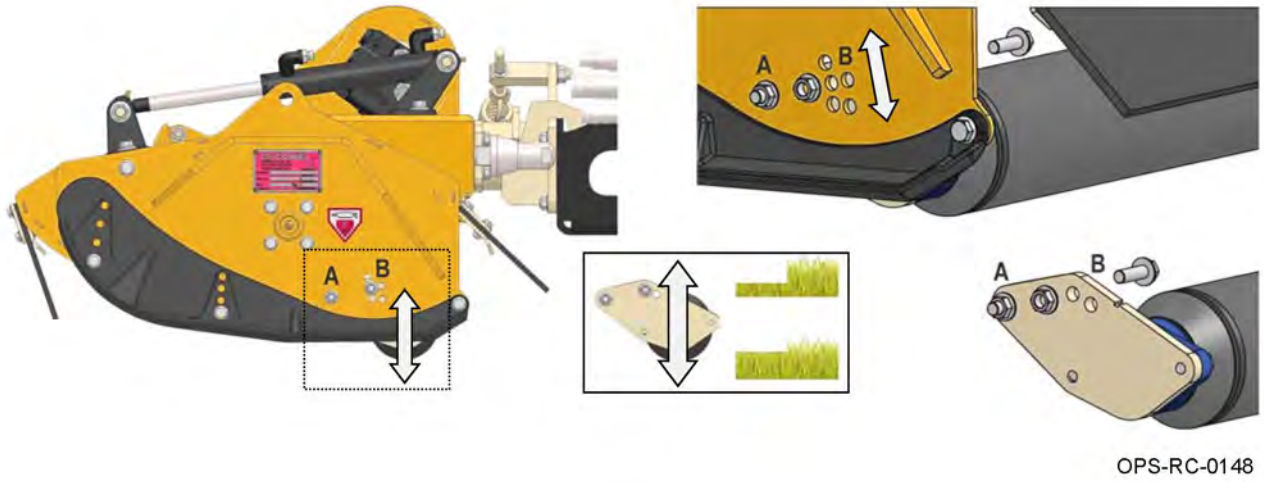
6.1 Cutting Height

The cutting height of the flailhead is governed by the height position of the rear roller; to alter the cutting height the mounting position of the roller brackets must be adjusted. 5 hole positions in the side casing and 2 in the brackets provide for a range of roller height settings; lowering the roller position raises the cutting height and raising the roller will lower the cutting height. *Ensure matching hole positions are selected on each side of the head.*

6.2 Roller Height Adjustment

Tools Required: Two 17mm Wrenches

Setting the cutting height requires removal of the rearmost fixing bolts of the roller brackets on each side of the head and subsequent replacement with the roller brackets set at the required cutting height position; *the front fixing bolts will require 'slackening off' to allow the rear of the brackets to be moved.*



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Loosen bolts 'A' and remove bolts 'B'; set desired roller height and replace bolts 'B'. Tighten all bolts fully.

⚠WARNING **Never use the machine with the rear roller removed.**

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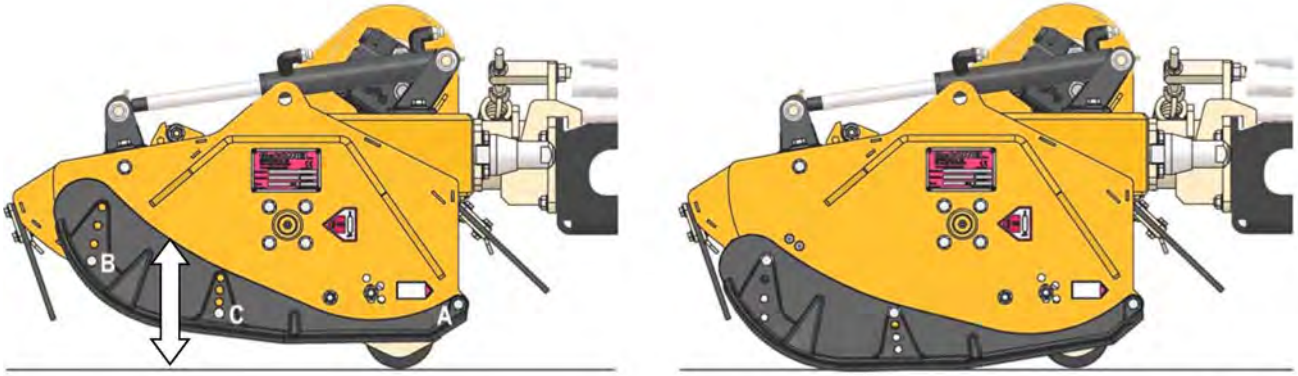
6.3 Skid Height Adjustment

Side skids should be set to a height just above that of the rear roller. Skids are a protection feature that restrict cutting debris and/or objects from being ejected under the side casings; in normal working conditions they should remain clear of the ground with the machine running on the rear roller. When setting the skids, ensure they are set at a matching height on each side of the head.



OPS-RC-0149

Loosen bolts ‘A’ and remove bolts ‘B’ & ‘C’; set skid height and replace bolts ‘B’ & ‘C’. Tighten all bolts fully

7.FLOAT AND ANGLE

7.1 Float Function

When activated, the float function allows the flailhead to follow the contours of the ground. The response speed of float is adjustable and can be set to LOW, MEDIUM or HIGH. By default, the function float is pre-set to ‘LOW’ - this is the recommended setting for normal work and conditions. *Refer to the RC56 & RC75 operator manual for details on changing the float settings for the attachment.*

On initial installation, the Traxx RF must first calibrate the float function; *refer to the RC56 & RC75 operator manual for full details of the calibration procedure.*

Float calibration for the flailhead will only need to be performed on initial attachment to the machine; float settings will then remain in the machines system memory even if the flailhead is subsequently removed from the machine and re-mounted at a later date.

7.2 Head Angle

In addition to float, the flailhead also features an ‘angle’ capability that permits the flailhead to angle itself independently of the machine by ±14°; this will allow the flailhead freedom to follow undulating terrain for more accurate cutting.

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8. ROTOR OPERATION

8.1 Rotor Direction

For grass cutting with Y-flails the rotor can be operated in either ‘uphill’ or ‘downhill’ cutting direction; uphill is usually the preferred choice for best cutting results but downhill can be used where circumstance or conditions demand.

Machines equipped with hammer flails should be operated in the ‘uphill’ direction only.

8.2 Rotor Speed

Rotor speed will vary depending on the conditions and the materials being cut, but should fall within the range of 2000-2800 rpm.

8.3 Damaged or Missing Flails

⚠ CAUTION Do not operate the machine with broken or missing flails. This will cause rotor imbalance.

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8.4 Rotor and Flail Identification

1.3m Grass Rotor (22 Station)
Y-Flails

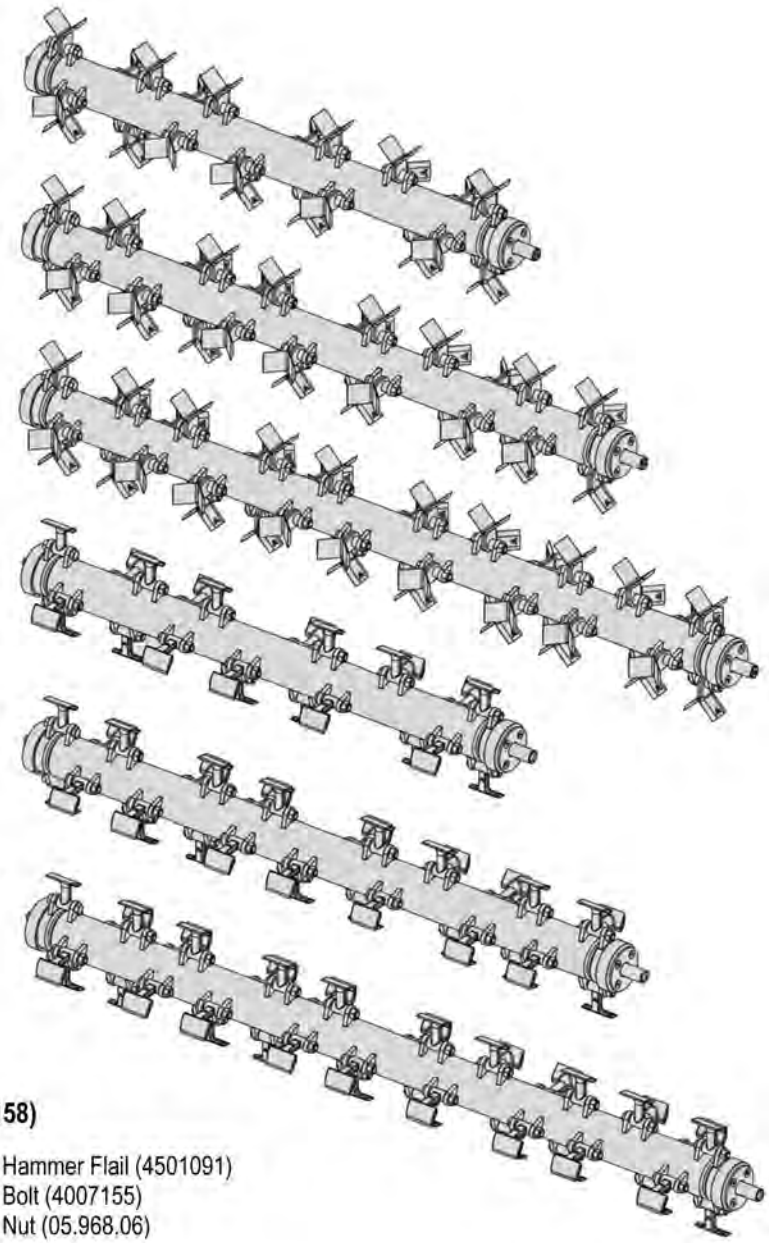
1.6m Grass Rotor (30 Station)
Y-Flails

1.9m Grass Rotor (38 Station)
Y-Flails

1.3m Grass Rotor (22 Station)
Hammer Flails

1.6m Grass Rotor (30 Station)
Hammer Flails

1.9m Grass Rotor (38 Station)
Hammer Flails



Hammer Flail Kit (4007158)

- 1x Hammer Flail (4501091)
- 1x Bolt (4007155)
- 1x Nut (05.968.06)

Y-Flail Kit (4007152)

- 2x Y-Flail (4007153)
- 2x Spacer (4007154)
- 1x Bolt (4007155)
- 1x Nut (05.968.06)

Bare Rotor Part Numbers

4007156: 1.3m Rotor
4007023: 1.6m Rotor
4007038: 1.9m Rotor
Rotors are the same for both types of flails.

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9.DRIVE BELT

WARNING Machinery must be switched off and the main isolater key removed before attempting to inspect or access the belt drive housing.

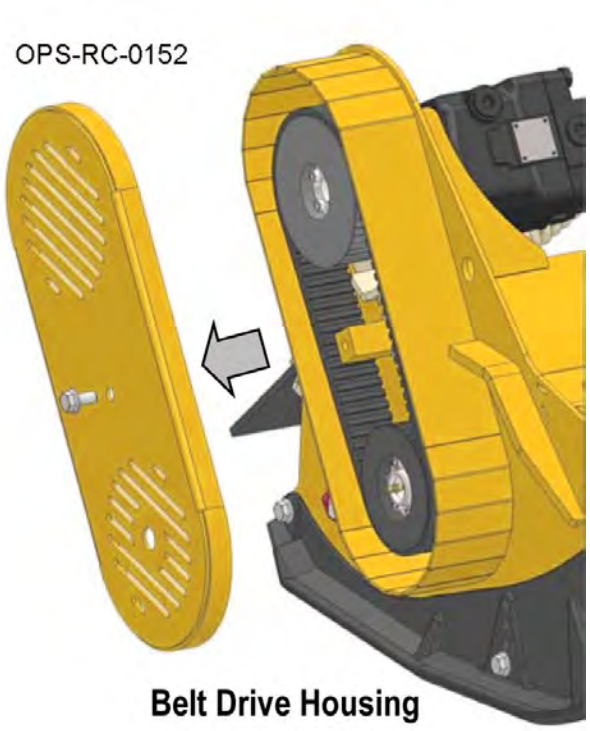
9.1 Drive Belt Check

Tools Required:17mm Wrench

The machines drive belt should be inspected regularly and checked for signs of wear or loss of tension. Access to the belt and pulley's is via the removable belt cover on the side of the drive housing.

The drive belt must be replaced immediately if it shows signs of excessive wear or damage, or fails to tension correctly.

Clean the belt drive housing and cover vents to remove any dirt or dust build-up before replacing the belt cover.



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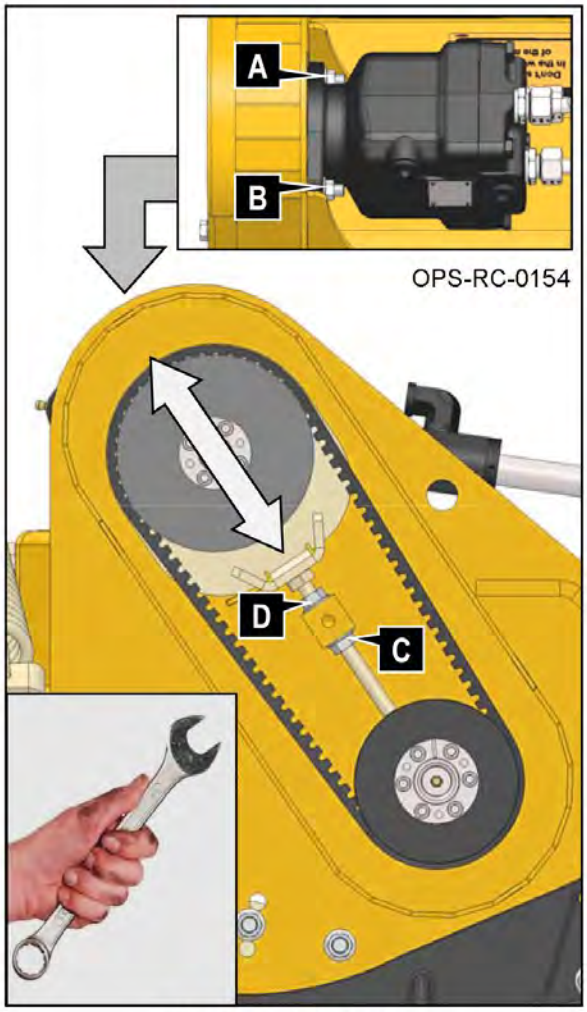
9.2 Belt Tension

Belt tension setting is; 9mm deflection at mid-point of belt run under 5 Kgs (10lbs) of force. Avoid over-tensioning the belt as this can cause excessive wear on main drive bearings.

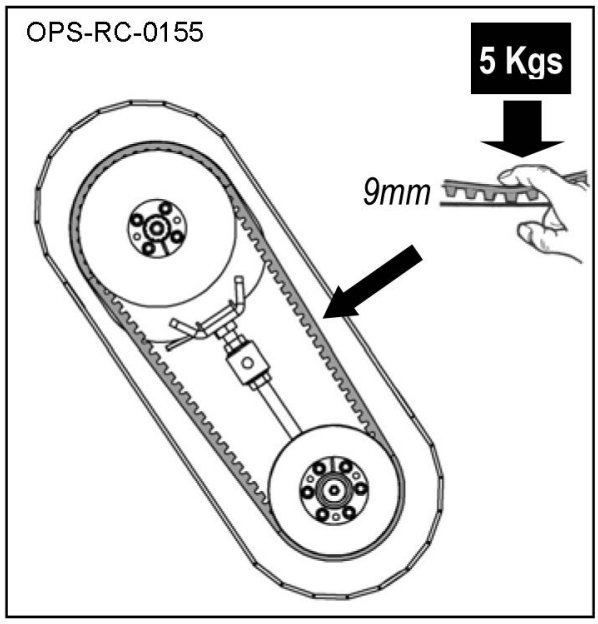
9.3 Adjusting Belt Tension



Drive Belt Adjuster

Belt Tensioning Procedure

- Remove belt cover
- Slightly loosen motor mounting nuts “A” and “B”
- Release locking nut “C”
- Tension belt using adjuster nut “D”
- Re-tighten locking nut “C”
- Re-tighten motor mounting nuts “A” and “B”
- Replace belt cover



Belt Tension Setting

WARNING **Never start or operate the machine with the belt cover removed.**

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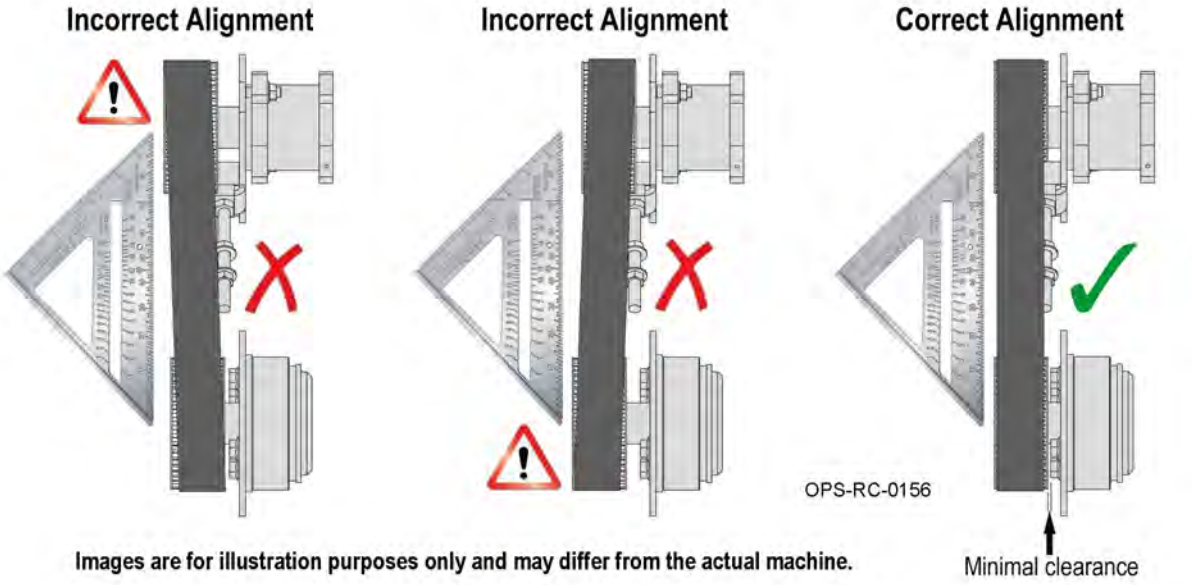
9.4 Belt Pulley Adjustment

The belt pulleys are secured in position on their shafts by taperlock bushings; when replacing pulleys the lower pulley must be fitted to the rotor shaft first, the pulley and taperlock should be located as far as possible onto the shaft at a minimal distance from casing components and secured with the taperlock.

The upper pulley and taperlock should be subsequently fitted to the drive shaft and positioned in-line with the lower pulley; a suitable straight edge tool placed against the faces of both pulleys should be used to set and confirm alignment.

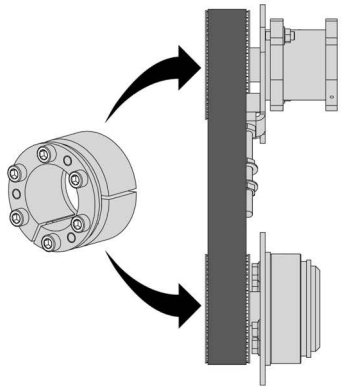
When the pulleys have been correctly installed the taperlocks must be fully tightened and torqued, refer to taperlock tightening procedure below.



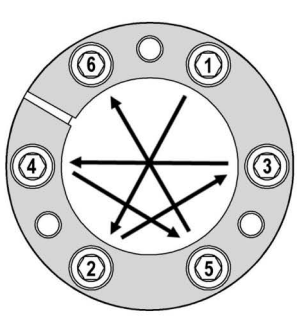
Images are for illustration purposes only and may differ from the actual machine.

9.5 Taperlocks

The pulley taperlocks must be tightened and torqued to 17Nm (12.5 ft-lb). Tighten the 6 Allen headed bolts using a criss-cross tightening sequence to the torque figure stated; repeat the tightening procedure twice on each taperlock.



Taperlock locations



Taperlock Tightening Sequence

⚠ CAUTION Check tightness of taperlocks after an initial 2 hours of use and every 25 hours thereafter.

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MAINTENANCE SECTION

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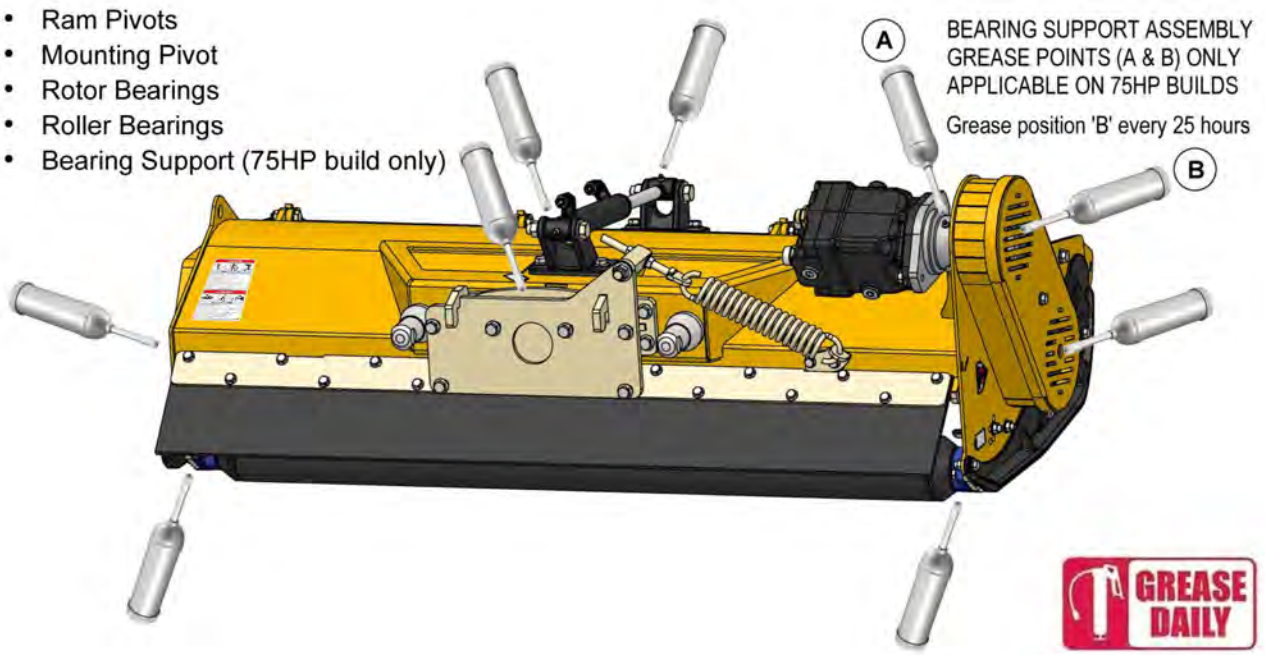
MAINTENANCE

LUBRICATION

Lubricate grease points indicated below using a good quality lithium-based grease.
In the event of anomalies or faults, proceed immediately to find the cause of such problem

Grease Point Locations



New Machines - Initial Checks
After the first 2 hours of use the following points should be checked on new machines.
- Check tightness of all nuts, bolts, and fixings; tighten if required.
- Check belt tension; tighten if required.
- Check tightness of taperlocks; re-torque if required.

Daily Checks
Machine should be inspected each day prior to work and at regular intervals during work.
- Check condition of flails and tightness of fixings; missing or damaged flails must be replaced before using the machine.
- Check tightness of all nuts, bolts, and fixings; tighten if required.
- Check hydraulic hoses for leaks and/or damage; replace if required.
- Lubricate grease points; refer to grease point diagram above.

24 Hour Checks
- Check condition and tension of drive belt; tension belt if required.
- Check tightness of taperlocks; re-torque if required.
- Lubricate bearing support spline shaft.

***NOTE:** Access to these components requires removal of the belt cover; replace belt cover before attempting to start or use the machine.*

⚠WARNING Machinery must be switched off and the main isolator key removed before performing checks.

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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.

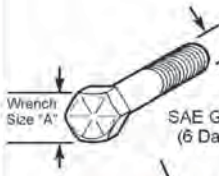
RECOMMENDED TORQUE IN FOOT POUNDS UNLESS OTHERWISE STATED IN THE MANUAL*

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

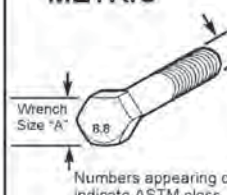
Bolt Head Markings



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



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)

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

Mnt-B-0005

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PROPER TORQUE FOR HYDRAULIC HOSE FITTINGS AND PIPING

JIC 37º and 45º (Machined or Flared)

Size		Steel			
		Ft.-Lbs.		Newton-Meters	
Dash	Inches	Minimum	Maximum	Minimum	Maximum
-4	1/4	10	11	13	15
-5	5/16	13	15	18	20
-6	3/8	17	19	23	26
-8	1/2	34	38	47	52
-10	5/8	50	56	69	76
-12	3/4	70	78	96	106
-16	1	94	104	127	141
-20	1-1/4	124	138	169	188
-24	1-1/2	156	173	212	235
-32	2	219	243	296	329

Flat-Face O-Ring Seal (Steel)

Size		Newton-Meters	
Dash	Inches	Minimum	Maximum
-4	1/4	14	16
-6	3/8	24	27
-8	1/2	43	54
-10	5/8	60	75
-12	3/4	90	110
-14	7/8	90	110
-16	1	125	240
-20	1-1/4	170	190
-24	1-1/2	200	245

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SAE O-Ring Boss (Steel)

Size		Ft.-Lbs. Working Pressures 4,000 Psi (27.5 Mpa)& Below		Newton-Meters Working Pressures 4,000 Psi (27.5 Mpa) & Below		Ft.-Lbs. Working Pressures Above 4,000 Psi (27.5 Mpa)		Newton-Meters Working Pressures Above 4,000 Psi (27.5 Mpa)	
Dash	Inches	Mini	Max	Mini	Max	Mini	Max	Mini	Max
-3	3/16	-	-	-	-	8	10	11	13
-4	1/4	14	16	20	22	14	16	20	22
-5	5/16	-	-	-	-	18	20	24	27
-6	3/8	24	26	33	35	24	26	33	35
-8	1/2	37	44	50	60	50	60	68	78
-10	5/8	50	60	68	81	72	80	98	110
-12	3/4	75	83	101-1/2	113	125	135	170	183
-14	7/8	-	-	-	-	160	180	215	245
-16	1	111	125	150	170	200	220	270	300
-20	1/1/4	133	152	180	206	210	280	285	380
-24	1-1/2	156	184	212	250	270	360	370	490

BSP 30º Inverted Cone

Size		Ft.-Lbs.		Newton Meters	
Dash	Inches	Minimum	Maximum	Minimum	Maximum
-2	1/8	7	9	9	12
-4	1/4	11	18	15	24
-6	3/8	19	28	26	38
-8	1/2	30	36	41	49
-10	5/8	37	44	50	60
-12	3/4	50	60	68	81
-16	1	79	95	107	129
-20	1-1/4	127	152	172	206
-24	1-1/2	167	190	226	258
-32	2	262	314	355	426

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DIN 2353 12º, 3º and Universal Inverted Cone

Size		Ft.-Lbs.		Newton-Meters	
Light Series Tube O.D. (mm)	Heavy Series Tube O.D. (mm)	Mini	Max	Mini	Max
-6	-	7	15	10	20
-8	-	15	26	20	35
-10	-8	18	30	25	40
-12	-10	22	33	30	45
-14	-12	26	37	35	50
-15	-14	30	52	40	70
-	-16	30	52	40	70
-18	-	44	74	60	100
-22	-20	59	89	80	120
-28	-25	74	111	100	150
-	-30	74	162	150	220
-35	-	133	184	180	250
-42	-38	148	221	200	300

Maximum Recommended Torque for Dry NPTF (Tapered) Pipe Threads

Size	Ft-Lbs.	Newton Meters
-2	20	25

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