LOFTNESS

Timber Ax

Skid-Steer Mounted Tree Shredder

63TA 73TA 83TA

Owner's Manual
(Originating w/Serial Number 01-955)

Model Number: _____
Serial Number: _____
Date of Purchase: _____

N14867_O

12.12.25


LOFTNESS

LOFTNESS SPECIALIZED EQUIPMENT, INC.
LIMITED WARRANTY POLICY

The limited warranty policy begins upon delivery of the unit to the original customer.

The following Loftness products have a two (2) year limited warranty;

XLB10 Grain Bag Loader, Battle Ax L-series Skid Steer, Battle Ax S-series Skid Steer, Battle Ax H-series Skid Steer, Battle Ax Excavator 20-series, Battle Ax Excavator 30-series, Battle Ax Excavator 40-series, Battle Ax Excavator 50-series, Battle Ax Extreme, Bad Ax Skid Steer, Timber Ax Skid Steer, Stump Ax, BT20, Kwik Cut.

All other Loftness products have a one (1) year limited warranty.

If any Loftness product is used as rental or leased equipment the limited warranty period is for only 30 days from the delivery date to the original customers.

Loftness Specialized Equipment, Inc. ("LOFTNESS") warrants new LOFTNESS machinery and/or attachments at the time of delivery to the original purchaser, to be free from defects in material and workmanship when properly set up and operated in accordance with the recommendations set forth in the LOFTNESS Operator's Manual. The second year of limited warranty includes only parts, and not labor.

LOFTNESS' liability for any defect with respect to accepted goods shall be limited to repairing the goods at an authorized dealer or other LOFTNESS designated location, or replacing them as LOFTNESS shall elect. The above shall be in accordance with LOFTNESS warranty adjustment policies.

WARRANTY REQUIREMENTS

Warranty registration form must be filled out and returned to Loftness Specialized Equipment to validate all warranty claims. To request a warranty claim, a return authorization from LOFTNESS must be obtained. The failed part may then be returned in an untampered status. This warranty does not include freight or delivery charges incurred when returning machinery for servicing. Dealer mileage, service calls and pick-up/delivery charges are the customer's responsibility.

LIMITATIONS OF WARRANTY

LOFTNESS products are designed to provide years of dependable service when proper use and maintenance is adhered to. The potential for misuse in many applications exists; therefore, a limited warranty is provided as follows.

This warranty shall not apply to any machine or attachment which shall have been repaired or altered outside the LOFTNESS factory or authorized LOFTNESS dealership or in any way so as in LOFTNESS' judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence or accident, nor to any machine or attachment which shall not have been operated in accordance with LOFTNESS' printed instructions or beyond the company recommended machine rated capacity. LOFTNESS may elect to have an area representative evaluate the condition of the machine before warranty is considered.

In addition, this limited warranty provides no coverage for general wear or maintenance items, misuse, environmental conditions and/or contamination for which they were not designed or not intended, including but not limited to the following items;

Use of machine beyond its rated capacity, Conveyors, Improper knife replacement, Auger wear, Missing knives, Saw blades, Striking foreign objects, Brakes and brake pads, Lack of lubrication, Tires, Failures caused by running in an "out-of-balance" condition, Hydraulic hoses damaged by being caught in "pinch points" or by moving parts, and Damage caused by excessive force from the power unit.

EXCLUSIONS OF WARRANTY

Except as otherwise expressly stated herein, LOFTNESS makes no representation or warranty of any kind, expressed or implied. **The implied warranty of merchantability and fitness for a particular purpose are disclaimed, and excluded from this limited warranty.** The remedies set forth in this warranty are the sole and exclusive remedies available to any person under this warranty. LOFTNESS shall have no liability to any person for incidental, consequential or special damages of any description, whether arising out of express or implied warranty or any other contract, negligence, or other tort or otherwise. This exclusion of consequential, incidental and special damages is independent from and shall survive any finding that the exclusive remedy failed of its essential purpose. Upon purchase, the buyer assumes all liability, all personal injury and property damage resulting from the handling, possession or use of the goods by the buyer.

No agent, employee or representative of LOFTNESS has any authority to bind LOFTNESS to any affirmation, representation or warranty concerning its machinery and/or attachments except as specifically set forth herein. (October 2025)


LOFTNESS

To the Dealer:

In order to ensure compatibility / performance of the Loftness attachment and the customer's power unit, it is IMPERATIVE that this Pre-Delivery Inspection ("PDI") be completed using the customer's actual power unit.

PRE-DELIVERY INSPECTION

Dealer: By initialing each line I understand and promise that I have completed the following:

____ Verified the attachment is set up properly for customers power unit. (check model code with manual)

____ Greased all grease zerks till grease purges out of bearing.

____ Removed all shipping brackets.

_____Adjusted push bar out of shipping position. (if equipped) (full forward position recommended)

____ Installed head on customer's unit that will be running the attachment and set hydraulic flow per power unit manufacturer owner's manual for preferred flow.

____ Recorded the Serial Number / Make / Model of the power unit.

Power unit. S/N _____ Make _____ Model _____

____ Recorded the Serial Number and Model of the Loftness attachment. S/N _____ Model_____

____ Verified power unit manufacturer outlined Auxiliary coupler orientation for pressure, return & case drain line.

____ Verified/recorded rotor RPM at full throttle per model & chart in Loftness owner's manual. RPM _____

____ Performed an Auxiliary system pressure stall check on the power unit only and verified that max pressure rating is achieved per power unit manufacturer specifications. Recorded pressure observed _____ PSI

PDI completed by: _____ Print

_____ Signed/Date

Contact Loftness factory if any of the tests are not within power unit or Loftness specifications.

DELIVERY

____ Showed customer all grease zerks.

____ Showed customer adjustable push bar options. (if equipped)

____ Showed customer how to properly engage hydraulics to operate attachment.

____ Reviewed owner's manual, all on-product warnings and instructions, and safe operation with customer.

____ Assisted customer with completing / submitting Warranty Registration Form to Loftness by one of the below options.
Dealer also needs to submit a copy of this completed PDI to Loftness and maintain the copy in owner's manual for unit.

Mail to:
Loftness Specialized Equipment
PO Box 337
Hector, MN 55342

Delivered to Customer by: _____Print

_____Signed/Date

Email to: registration@loftness.com

LOFTNESS COPY

To the Dealer:

In order to ensure compatibility / performance of the Loftness attachment and the customer's power unit, it is IMPERATIVE that this Pre-Delivery Inspection ("PDI") be completed using the customer's actual power unit.

PRE-DELIVERY INSPECTION

Dealer: By initialing each line I understand and promise that I have completed the following:

____ Verified the attachment is set up properly for customers power unit. (check model code with manual)

____ Greased all grease zerks till grease purges out of bearing.

____ Removed all shipping brackets.

_____Adjusted push bar out of shipping position. (if equipped) (full forward position recommended)

____ Installed head on customer's unit that will be running the attachment and set hydraulic flow per power unit manufacturer owner's manual for preferred flow.

____ Recorded the Serial Number / Make / Model of the power unit.

Power unit. S/N _____ Make _____ Model _____

____ Recorded the Serial Number and Model of the Loftness attachment. S/N _____ Model_____

____ Verified power unit manufacturer outlined Auxiliary coupler orientation for pressure, return & case drain line.

____ Verified/recorded rotor RPM at full throttle per model & chart in Loftness owner's manual. RPM _____

____ Performed an Auxiliary system pressure stall check on the power unit only and verified that max pressure rating is achieved per power unit manufacturer specifications. Recorded pressure observed _____ PSI

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_____ Signed/Date

Contact Loftness factory if any of the tests are not within power unit or Loftness specifications.

DELIVERY

____ Showed customer all grease zerks.

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Email to: registration@loftness.com

CUSTOMER COPY


LOFTNESS

Warranty

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Owner Information

Thank you for your decision to purchase a Timber Ax Skid-steer Mounted Tree Shredder from Loftness. It has been designed to provided years of profitable and dependable service. To ensure maximum performance of your machine, it is mandatory that you thoroughly study the owner's manual and follow its recommendations. Proper operation and maintenance are essential to prevent injury or damage and to maximize machine life.

The Loftness Timber Ax is an effective, reliable machine used for maintaining grass, weeds, brush and trees. It efficiently cuts and mulches up to 6" diameter material with as little as 38 hydraulic horsepower, and intermittently cuts larger diameter material. The blades cut and pulverize the grass, weeds and brush. The shredder deposits cut material over the entire width-of-cut, which eliminates bunching or windrowing behind the machine.

The shredder rotor is equipped with two rows of stationary cutting knives, plus an adjustable cutter bar that restricts the feed rate of the material being shredded. The more powerful systems can use a wider opening to increase the feed rate.

The Timber Ax can be attached to any skid-steer with an auxiliary hydraulic system of 21-54 GPM, which has a standard universal skid-steer hitch

Operate and maintain this machine in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and/or laws, and in compliance with on-product labeling and these instructions.

Make sure that all personnel have read this owner's manual and thoroughly understand safe and correct operating, installation and maintenance procedures.

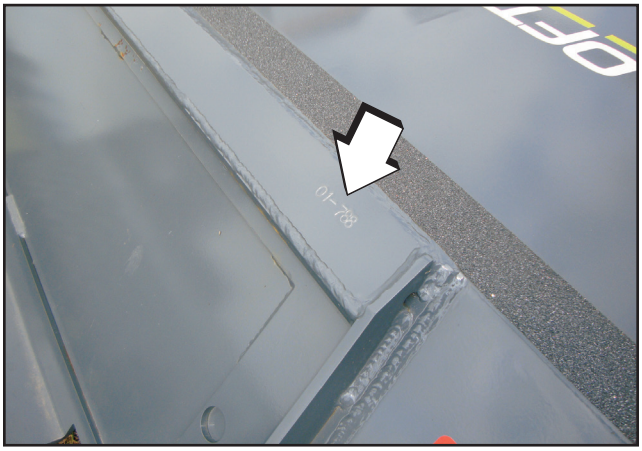
Continuous improvement and advancement of Loftness products may result in changes to your equipment that may not be reflected in this publication. Loftness reserves the right to make product improvements to the machine at any time. Although great care has been taken to ensure the accuracy of this publication, Loftness does not assume any liability for errors or omissions.

Warranty Policy

Be sure to read and understand the Warranty Policy at the beginning of this manual. It is also important that you fill out the Warranty Registration form(s) completely with your dealer.

Serial Number Location

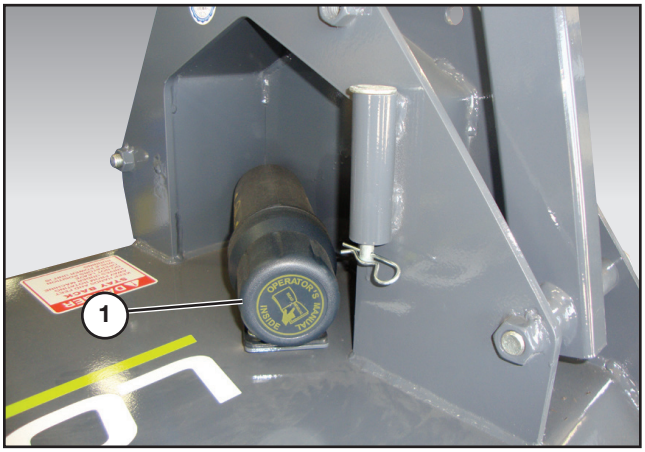
The arrow above indicates the location of the serial number tag.



The serial number is also stamped into the frame, on top of the hitch support.

Always use your model and serial number when requesting information or when ordering parts. Refer to the Ordering Code chart on page 4 to find your model number.

Manual Storage



Keep the owner's manual and the entire documentation packet in the storage compartment (1) provided on your Timber Ax. The owner's manual must be available for all operators.

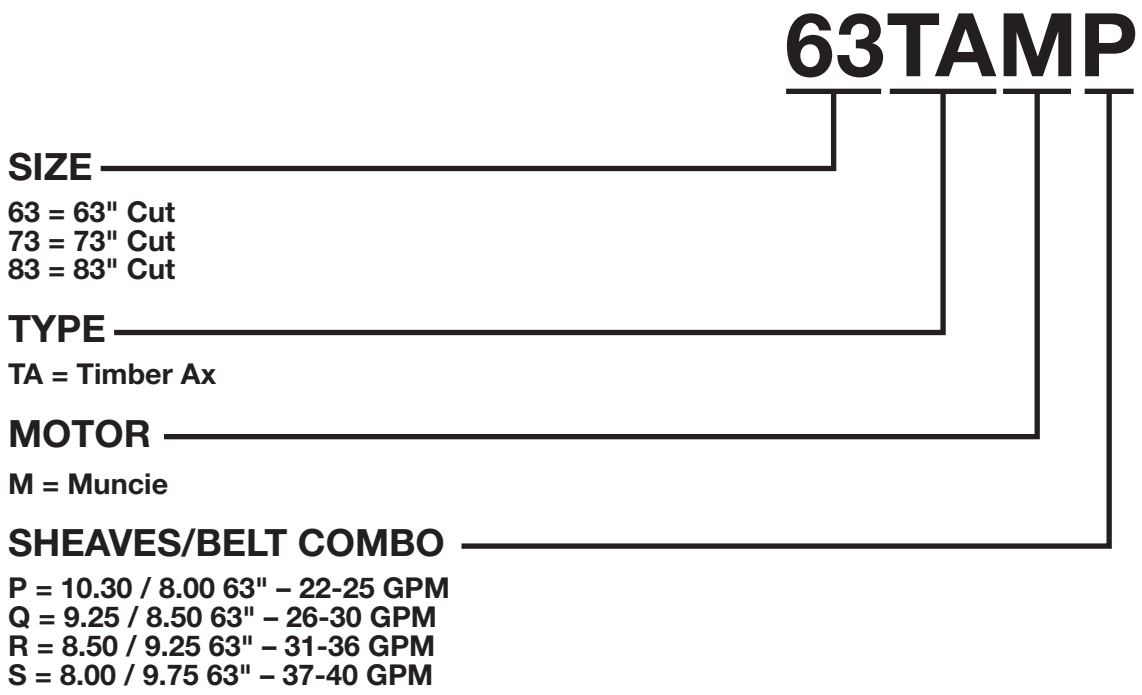
Timber Ax Features

- Standard Front Skid-Steer Mount
- Motors Sized for 22-40 GPM
- High-Efficiency Gear-type Motor
- Dual Cross-over Relief Valve Protection
- Upward Rotor And Knife Rotation; Ridged, Pocket-style Knife Mounts
- Premium Strength Steel Body & Rotor
- Bearing Anti-wrap Protection
- 2-3/16 Inch Rotor Bearings
- External HD Bearing Block
- 4-Groove Banded Belt
- Single Belt Drive
- Automatic Tension System
- Manual Adjust Pusher Bar
- Claw Hooks on Pusher for Positioning Material
- Adjustable Shear Bar
- Skid Shoes - Adjustable 1 to 3 inches
- Steel Deflector Chains
- Rubber-Mounted Pressure Gauge
- Hydraulic Hose Holder
- Knife Sharpening without Detachment

Ordering Code

Timber Ax (Example)

The ordering code will consist of two numbers (machine size), two letters (body type), one letter (motor type), and one letter (sheaves/belt combo). An example for a Timber Ax of this type would be shown below.



Safety First

Safety Alert Symbol

This message alert symbol identifies important safety messages on the machine and in the owner's manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

In the owner's manual and on decals used on the machine the words **DANGER, WARNING, CAUTION, IMPORTANT, and NOTE** are used to indicate the following:

DANGER: This word warns of immediate hazards which, if not avoided, will result in severe personal injury or death. The color associated with Danger is RED.

WARNING: This word refers to a potentially hazardous situation which, if not avoided, could result in severe personal injury or death. The color associated with Warning is ORANGE.

CAUTION: This word refers to a potentially hazardous or unsafe situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

IMPORTANT: Highlights information that must be heeded.

NOTE: A reminder of other related information that needs to be considered.

If Safety Decals on this machine are ISO two panel pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as and if used, are RED.

Be certain all machine operators are aware of the dangers indicated by safety decals applied to the machine, and be certain they follow all safety decal instructions. Contact Loftness for safety decal replacement.

Loftness cannot anticipate every possible circumstance that may involve a potential hazard. The warnings in this owner's manual are not all inclusive.

WARNING: *IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:*

- *Is instructed in safe and proper use of the machine.*
- *Reads and understands the Manual(s) pertaining to the machine.*
- *Reads and understands ALL Safety Decals on the machine.*
- *Clears the area of other persons.*
- *Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.*

Owner's Responsibility

Because of the potential safety hazard to eyes from hydraulic leaks and/or flying debris, "**USE OF PROTECTIVE EYEWEAR IS ABSOLUTELY MANDATORY"** for operator and others in the work area.

Due to the possible danger of flying debris, it is **"ABSOLUTELY MANDATORY that IMPACT-RESISTANT SHIELDING"** be provided on the power unit to protect the operator. The owner is responsible for providing the operator protection devices on the power unit.

Flying debris can gather on the skid-steer and needs to be cleaned off, especially around the radiator and oil cooler screens, engine compartment and exhaust areas. Periodic cleaning will help prevent the possibility of fire.

Make sure that all personnel have read this owner's manual, and thoroughly understand safe and correct installation, operation, and maintenance procedures.

Operate and maintain this machine in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and/or laws; and in compliance with on-product labeling and this owner's manual instructions.

Make sure that all personnel know how to stop the machine and attachment by disengaging all controls. See "Mandatory Shut-Down Procedure" on page 6.

Owner's Responsibility (Cont'd)

Make sure the attachment is installed on the machine correctly before being placed in service. At regular intervals thereafter, the attachment should be serviced in accordance with procedures outlined in this owner's manual.

Mandatory Shut-Down Procedure

- Stop the machine and attachment on a level surface and lower the attachment to the ground.
- Move throttle to idle position.
- Disengage all power to the attachment.
- Shut off engine and remove the key.

Wait until the rotor has stopped completely before inspecting the attachment.

Safety Rules

These are general safety considerations. Additional precautions may be necessary to operate your machine in a safe manner. Be certain you are operating your machine in accordance with all safety codes, OSHA rules and regulations, insurance requirements and local, state, and federal laws.

- Read this manual carefully. Become thoroughly familiar with the controls and proper use of the machine. Insure that all operators know how to stop the unit by disengagement of the controls using the "Mandatory Shut-Down Procedure" on page 6.
- It is the owner's responsibility for communicating all information on the safe use and proper maintenance of this machine.
- Never allow children to operate equipment. Allow adults to operate the equipment only after receiving the proper instructions. Keep the area of operation clear of all unauthorized persons.
- Remove from area of operation all foreign objects such as sticks, wire, rocks, etc., that might become tangled in the rotor, causing damage to the machine or thrown from the attachment striking other objects.
- Never attempt to make any adjustments while the engine is running or the key is in the "ON" position of the skid-steer loader. Before leaving the operator's position, disengage power to the attachment and remove ignition key.
- Disengage hydraulic valve and place skid-steer controls in neutral or park before starting engine.

Safety Instructions for Operation and Maintenance

The following safety warnings are used here and on the Timber Ax. Become familiar with them before operating this machine.

CAUTION:

- Failure to follow safety, operating, and maintenance instructions could result in death or serious injury to the operator or bystanders, poor operation, or costly breakdown.
- Become familiar with and know how to use all safety devices and controls on the attachment before attempting to operate the unit. Know how to stop the unit before starting it.
- Do not start, operate, or work on this machine until you have carefully read and thoroughly understand the contents of this manual and the operator's manual for your loader.
- Keep children, spectators and other workers off and away from the machine while it is operating or engine is running. Do not carry passengers.
- Before inspecting, cleaning, lubricating, adjusting or servicing any part of the attachment, always exercise the "Mandatory Shut-Down Procedure" on page 6. After service has been performed, be sure to restore all guards, shields and covers to their original position.
- Read and observe all warnings decals on the machine before attempting to operate the attachment. Do not attempt to operate this machine unless all factory devices and decals are in place. Keep safety decals clean of dirt and grime. Keep all guards, shields and decals in place.

Safety Rules (Cont'd)

Safety Instructions for Operation and Maintenance (Cont'd)

- The operator must not use drugs or alcoholic drinks which would impair his alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he can safely operate a machine.
- Before using the attachment on a new job site, check the rules and regulations at the location. The rules may include an employer's work safety requirements.
- Make sure all controls, (levers, pedals and switches), are in NEUTRAL position before starting the loader engine.
- To prevent serious personal injury from escaping high pressure fluid, never attempt to inspect, service or disassemble any part of the hydraulic system until all pressure has been relieved from the system. Do not use your hands to check for hydraulic leaks.

WARNING:

- Keep all guards, shields and decals in place.
- Always repair or replace any damaged front guard chains.
- Keep hands, feet and clothing away from moving components.
- Do not wear loose or baggy clothing around rotating machinery. Machine must be clear of people, tools, and other objects before engaging hydraulic valve.
- Before working under any hydraulically controlled implement, be certain it is securely blocked!
- Because of the potential safety hazard to eyes from hydraulic leaks and/or flying debris, "USE OF PROTECTIVE EYEWEAR IS ABSOLUTELY MANDATORY" for operator and others in the work area.
- Always use an approved roll bar and seatbelt for safe operation. Overturning a loader without a roll bar and seatbelt can result in injury or death.
- Use the handholds and step plates when getting on and off the loader to prevent falls. Keep steps and platform cleared of mud and debris.
- Operate the attachment only from the operator's seat.
- Keep your feet on the pedals, (floor plates) seat belt fastened snuggly and seat bar lowered, (if equipped), when operating the attachment.
- Never operate the attachment in a lifted position. Work only on the surface that the loader is standing on.
- Do not operate the attachment above the rated RPM.

DANGER:

- **DANGER:** Before leaving the operator's position for **ANY** reason or allowing anyone near the attachment, always exercise the following "Mandatory Shut-Down Procedure" on page 6.

Safety Rules (Cont'd)

Operation Safety

Because this machine will be operated in a potentially hazardous environment, it is **ABSOLUTELY MANDATORY** that you read and follow these safety precautions.

WARNING:

- Due to the possible danger of flying debris, it is **"ABSOLUTELY MANDATORY that IMPACT-RESISTANT SHIELDING"** be provided on the power unit to protect the operator. The owner is responsible for providing the operator protection devices on the power unit.
- The adjustable push bar could contact the power unit in some positions. Before starting the power unit, set the push bar in the most forward position, then slowly rotate the Timber Ax back while an assistant checks for clearance. Repeat this process in the other settings to determine which positions are usable with your power unit.
- Stay alert for hidden hazards or traffic. Do not carry passengers.
- Never operate the attachment without good light or visibility.
- After striking a foreign object, be sure to exercise the "Mandatory Shut-Down Procedure" on page 6. Thoroughly inspect the attachment for any damage before restarting and operating the machine.
- Repeated impact of knives with ground or hard objects can cause excessive wear and damage to the skid-steer or attachment. Be sure to maintain recommended ground clearance as specified in this manual.
- Should excessive vibration occur, disengage hydraulic valve immediately. Do not continue operation of the attachment until the problem has been detected and corrected. Be sure to exercise the "Mandatory Shut-Down Procedure" on page 6.
- Disengage power to the attachment when transporting or not in use.
- When transporting the attachment on the road at day or night, provide adequate warning to the operators of other vehicles.
- Never park on a steep incline.
- Do not leave equipment in raised position.
- **DO NOT** allow **ANY** people or animals within 300 feet of the work area while operating this machine.
- **THOROUGHLY** clear the work area of **ALL** foreign objects such as bottles, rocks, wire, etc. before starting the machine.
- **ALWAYS** operate the attachment level with the ground (front to rear).
- **NEVER** operate the attachment over 2 feet above the ground.

WARNING:

- Never operate the attachment without guards, shields, plates or other safety precaution devices in place. Shields are for your protection, please keep all shields in place.
- Always cut in an up and down direction on slopes. To avoid loss of control and to prevent overturn, never cut across the slope.
- Reduce speed when turning.
- Do not operate on extremely steep slopes.
- Before servicing or adjusting the attachment, or removing material from it, be sure to exercise the "Mandatory Shut-Down Procedure" on page 6.
- Be sure the rotor has stopped completely before checking knives.
- Be especially careful not to touch attachment parts which might be hot from operation. Allow such parts to cool before attempting to maintain, adjust, or service.

DANGER:

- Never get off skid-steer while it is in motion!
- Keep hands and feet out! Do not step on or climb over the unit while machine is in operation, or engine is running. Do not carry passengers.

Safety Rules (Cont'd)

Hydraulic Safety

⚠	**WARNING:** *Contact with high pressure fluids may cause fluid penetration and burn hazards. Fluid that is under pressure can penetrate body tissue. Fluid penetration can cause serious injury and possible death. If fluid is injected into the skin, seek medical attention immediately!*

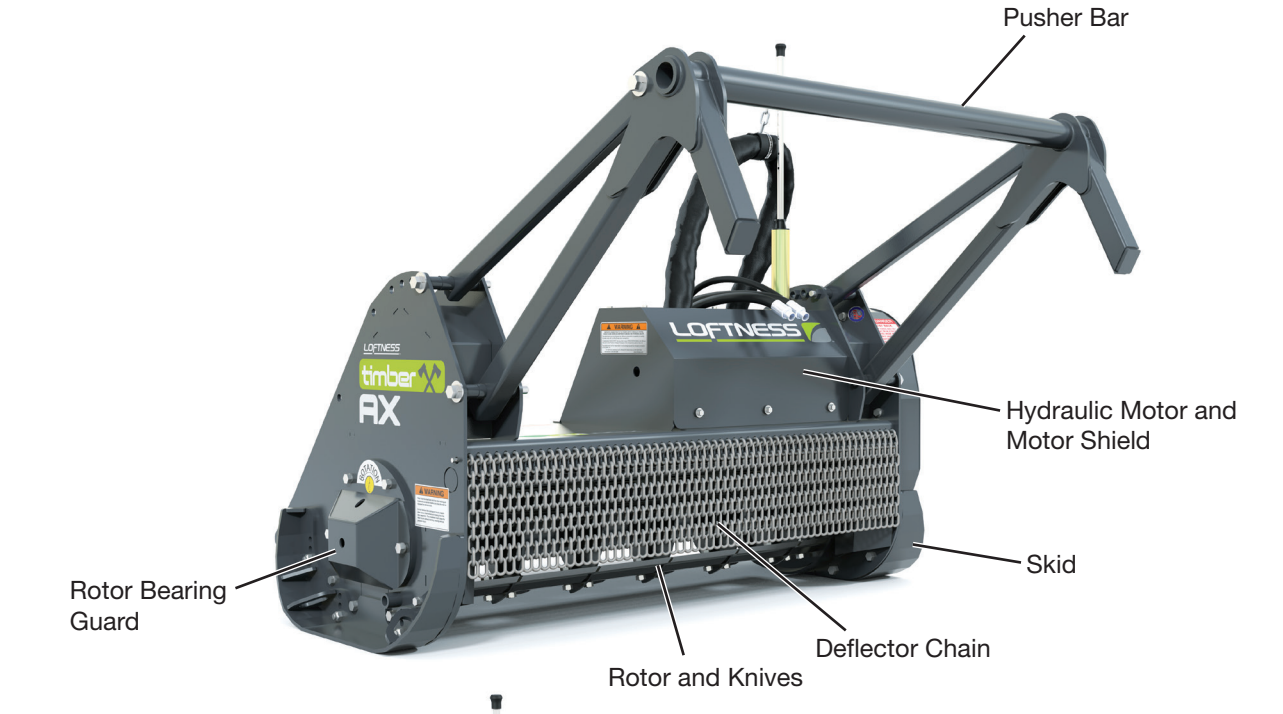
- Always wear safety goggles or glasses when working on hydraulic system to avoid eye injury.
- The hydraulic system is under high pressure. Make sure all lines and fittings are tight and in good condition. These fluids escaping under high pressure can have sufficient force to penetrate skin and cause serious injury.
- Never check for leaks by using any part of your body to feel for escaping fluid.
- To prevent serious personal injury from escaping high pressure fluid, never attempt to inspect, service or disassemble any part of the hydraulic system until all pressure has been relieved from the system.

California Proposition 65 Warning

⚠	**WARNING:** *This product can expose you to Mineral Oil, which is known to the State of California to cause cancer. For more information, go to www.p65warnings.ca.gov.*

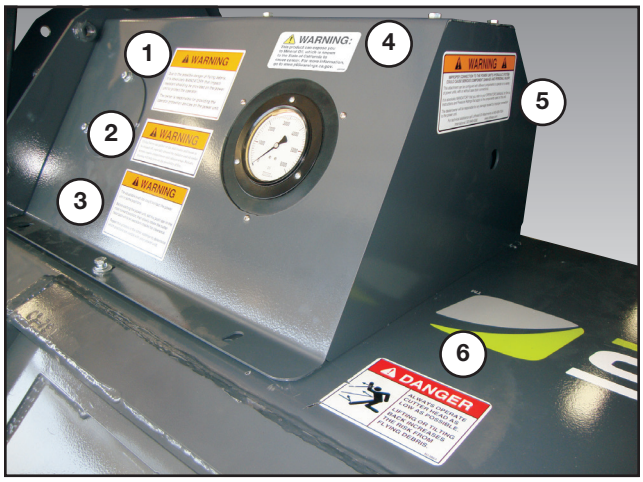
A decal with this warning statement is adhered to the machine. If the decal should become worn or missing, replace immediately.

Timber Ax Identification



Safety Decal Locations

Check and replace any worn, torn, hard to read or missing safety decals on your machine.



1

⚠ WARNING

Due to the possible danger of flying debris, it is absolutely MANDATORY that impact-resistant shielding be provided on the power unit to protect the operator.

The owner is responsible for providing the operator protection devices on the power unit.

Part No. N17013

2

⚠ WARNING

Flying Debris can gather on the skid-loader and needs to be cleaned off, especially around the radiator and oil cooler screens, engine compartment and exhaust areas. Periodic cleaning will help prevent the possibility of fire.

Part No. N20661

3

⚠ WARNING

The adjustable push bar could contact the power unit in some positions.

Before starting the power unit, set the push bar in the most forward position, then slowly rotate the cutter head back while an assistant checks for clearance.

Repeat this process in the other settings to determine which positions are usable with your power unit.

Part No. N17014

4

⚠ WARNING:

This product can expose you to Mineral Oil, which is known to the State of California to cause cancer. For more information, go to www.p65warnings.ca.gov.

203264

Part No. 203264

5

⚠ WARNING ⚠

IMPROPER CONNECTION TO THE POWER UNIT'S HYDRAULIC SYSTEM COULD CAUSE SERIOUS COMPONENT DAMAGE AND PERSONAL INJURY.

This attachment can be configured with different components to operate on a variety of power units, with or without case drain connections.

It is absolutely MANDATORY that you refer to your OPERATOR'S MANUAL for Set-up Instructions and Pressure Ratings that apply to the components used on this unit.

The dealer/owner will be responsible for any damage caused by improper connection to the power unit.

For technical assistance call Loftness/US Attachments at 800-828-7624
International: 320-848-6266 www.loftness.com

Part No. N28385

6

⚠ DANGER

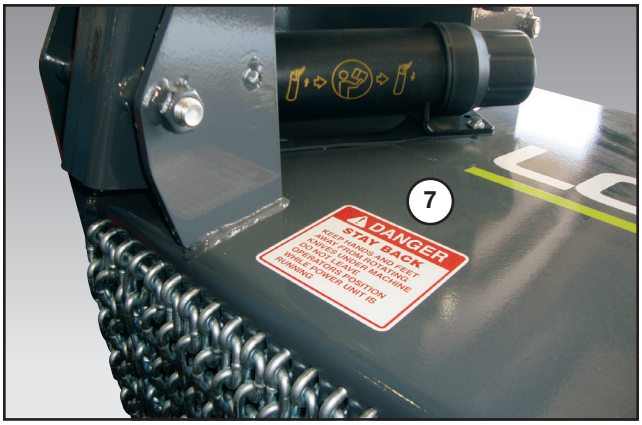
ALWAYS OPERATE CUTTER HEAD AS LOW AS POSSIBLE.

LIFTING OR TILTING BACK INCREASES THE RISK FROM FLYING DEBRIS.

N13863

Part No. N13863

Safety Decal Locations (Cont'd)



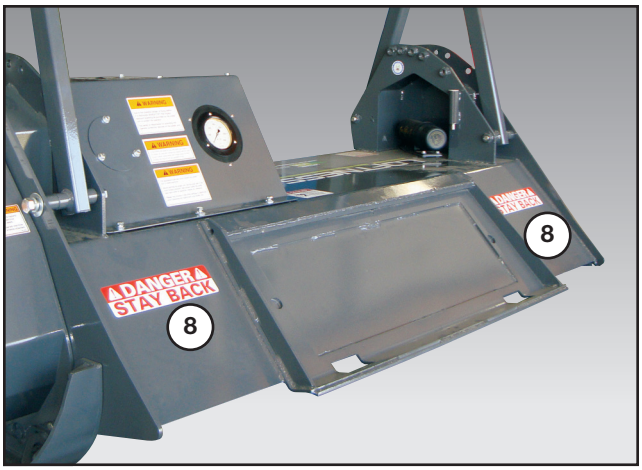
7

DANGER

STAY BACK

KEEP HANDS AND FEET AWAY FROM ROTATING KNIVES UNDER MACHINE DO NOT LEAVE OPERATORS POSITION WHILE POWER UNIT IS RUNNING

Part No. N28386



8

DANGER

STAY BACK

Part No. 4334

9

WARNING

Rotor must be stabilized with the rotor locking pin to prevent accidental rotation any time the rotor is exposed for service work.

Do Not Remove the locking pin for any reason when one or more knives are missing from the rotor assembly. The imbalance could cause the rotor to turn without warning, causing serious personal injury.

Part No. N16759

Safety Decal Locations (Cont'd)

10

CAUTION

DO NOT START, OPERATE, OR WORK ON THIS MACHINE UNTIL YOU HAVE CAREFULLY READ AND THOROUGHLY UNDERSTAND THE CONTENTS OF THE OPERATOR'S MANUAL.

NOTE: IF YOU DO NOT HAVE AN OPERATOR'S MANUAL, CONTACT YOUR DEALER OR

LOFTNESS SPECIALIZED EQUIPMENT
650 SOUTH MAIN
HECTOR, MN 55342
1-800-828-7624

FAILURE TO FOLLOW SAFETY, OPERATING, AND MAINTENANCE INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS INJURY TO THE OPERATOR OR BYSTANDERS, POOR OPERATION, AND COSTLY BREAKDOWN.

Part No. 4256

11

WARNING

Rotating parts hazard. Can cause serious injuries or death.

Do not operate machine without shields attached.

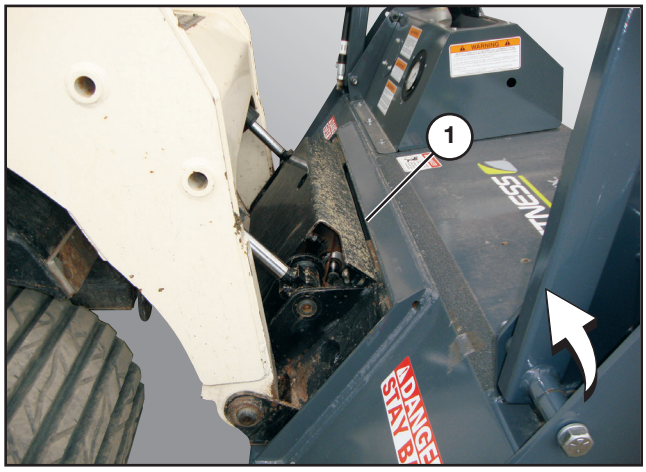
PN 4189

Part No. 4189


LOFTNESS

Installing the Timber Ax to the Skid Loader

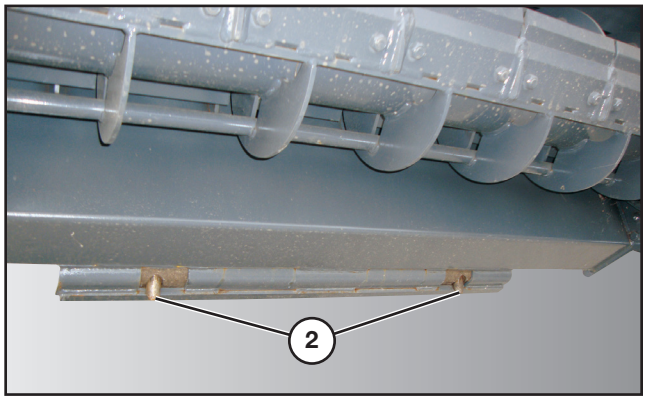
Fully raise the attachment-locking levers on the loader mounting plate.



Tilt the loader mounting plate ahead. Drive forward with the loader and hook the top edge of the loader mounting plate under the top flange (1) on the Timber Ax mounting plate. Be careful not to damage the locking levers on the loader mounting plate.

Tilt the loader mounting plate back until the Timber Ax mounting plate is firmly against the loader mounting plate, but DO NOT lift the attachment off the ground.

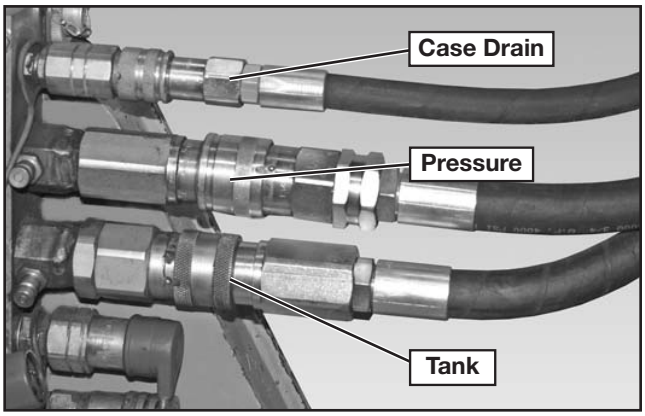
> **WARNING:** *Before you leave the operator's seat: Lower the lift arms, put the attachment on the ground. Stop engine and remove ignition key. Engage the parking brake.*



Locking-wedge pins (2) must extend through the holes in attachment-mounting plate.

> **WARNING:** *Locking-wedge pins must extend through the holes in attachment-mounting plate. Levers must be fully down in the locked over-center position. Failure to secure wedge pins can allow attachment to come off, causing serious injury or death.*

Hydraulic Connections



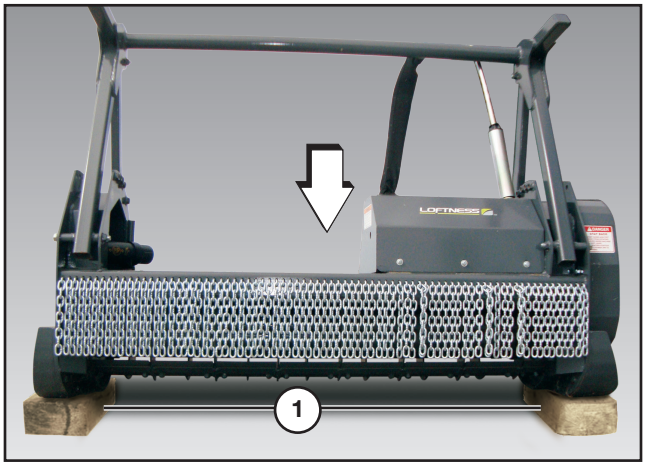
NOTE: *The hydraulic hose quick couplers shown above are not supplied with the Timber Ax.*

Install the Timber Ax quick couplers to the loaders hydraulic system.

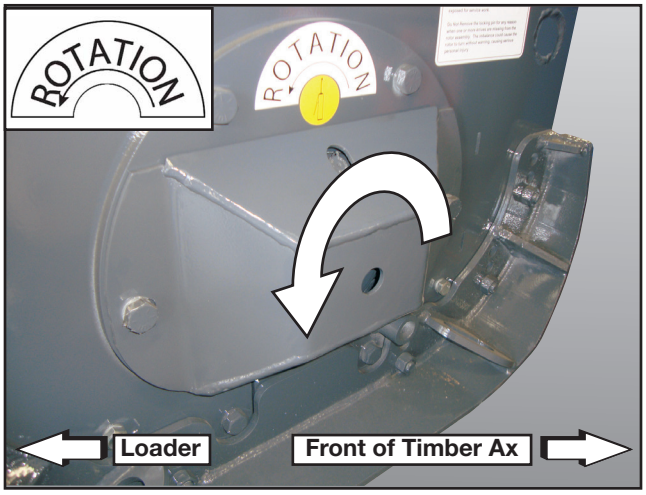
NOTE: *The case drain quick coupler of the Timber Ax must be connected to the loader's auxiliary hydraulic system for proper operation of the attachment. Failure to do so may result in severe damage to the hydraulic motor.*

IMPORTANT: *It is the owner's responsibility to assure that the hydraulic hoses from the power unit to the attachment are not caught in pinch points, or in any way damaged by moving parts.*

Checking Rotor Rotation



Raise the Timber Ax off the ground and place blocks (1) underneath the skids. Lower the Timber Ax down on the blocks.

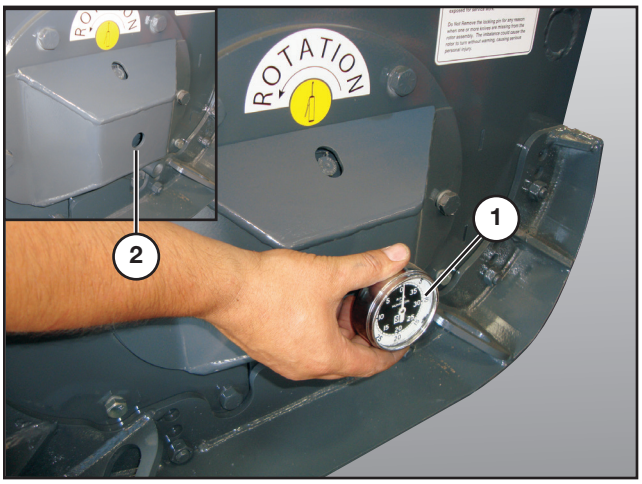


Engage the loader auxiliary hydraulics, the rotor should start rotating in a reverse direction. The rotation should be counterclockwise as viewed from the right side of the Timber Ax.

NOTE: *If the rotor is rotating backward, reverse the quick couplers (not supplied) on the Timber Ax hydraulic hoses. Re-install the couplers (not supplied) on the loader and test for correct rotor rotation.*

Checking Rotor Speed

NOTE: *To order a Diagnostic Gauge Kit use # N16340.*



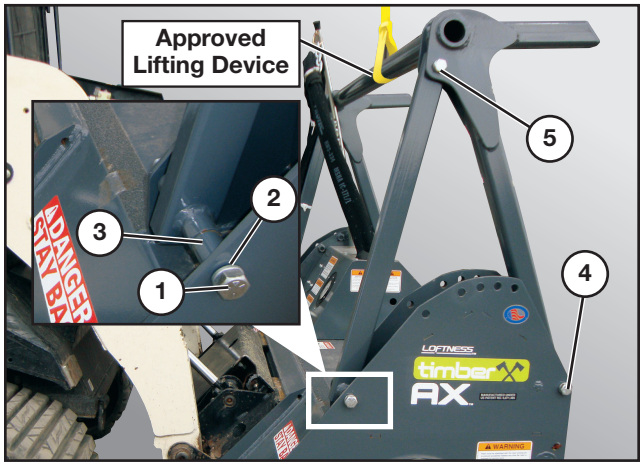
NOTE: *The electronic or mechanical tachometer shown above is not supplied with the Timber Ax.*

Use an electronic or mechanical tachometer (1) (access (2) thru the bearing guard) to check the rotor speed.

Test the rotor RPM with loader engine at full throttle.

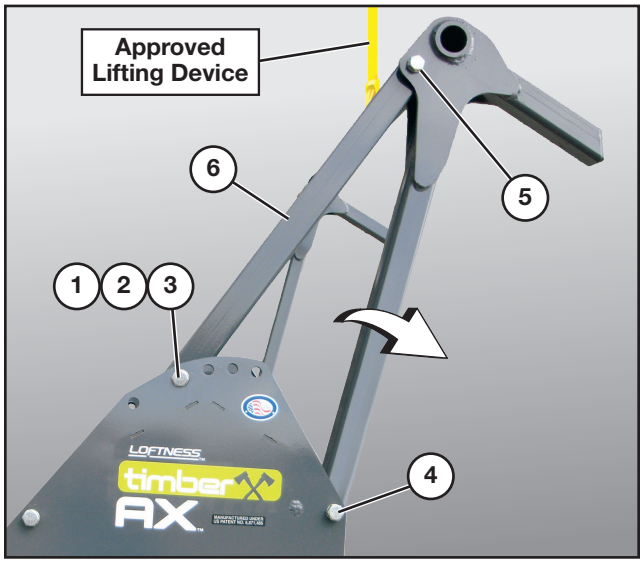
See “Motor and Sheave Selection Chart” on page 29 for rotor RPM. If it is outside this recommended range, it may be necessary to disconnect the Timber Ax and test the hydraulic output of the loader with a flow meter to see if it corresponds with the factory specifications.

Pusher Bar Adjustment



NOTE: *Adjusting the pusher bar requires two people or the use of an approved lifting device to support the push bar as it is being adjusted.*

Remove bolt (1), washer (2), and bushing (3) from the lower storage position. Loosen the two bolts (4 & 5) to allow the pusher bar to pivot forward. Repeat procedure on opposite side.

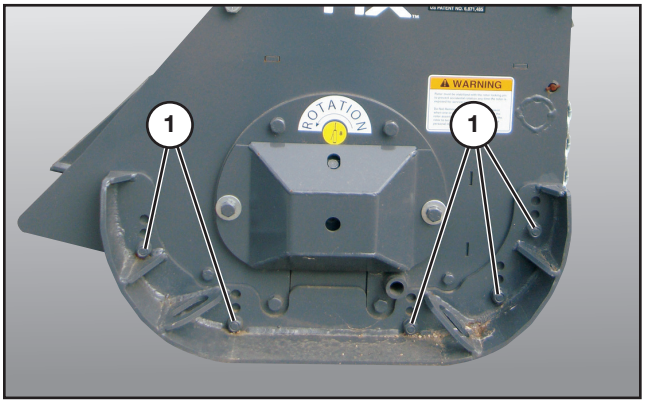


Move the pusher bar forward.

Align the rear arm (6) with the desired hole from the front as shown.

Install bushing (3), washer (2), and bolt (1) and tighten securely against the frame. Tighten bolts (4 & 5). Repeat procedure on opposite side.

Skid Adjustment

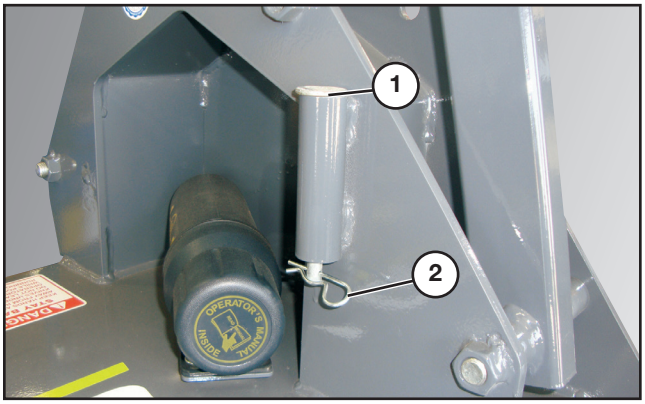


NOTE: *The skid(s) can be adjusted to increase or decrease the distance between the ground and the rotor.*

Remove the five nuts (1) and raise or lower the skid to the desired height. Re-install the five nuts and tighten securely against the skid.

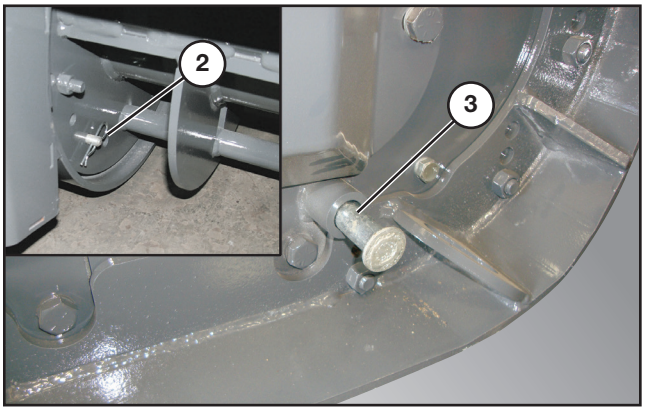
Rotor Locking Pin Installation

⚠	**WARNING:** *Rotor must be stabilized with rotor locking pin to prevent accidental rotation any time the rotor is exposed for service work.*



The rotor lock pin (1) with clip (2) is stored on the frame inside the right side arm.

Use the rotor lock pin to keep the rotor from spinning when performing any work or maintenance on the rotor or knives, or when transporting the Timber Ax.



Remove the rotor lock pin and clip from the storage position and insert pin into the locking hole (3) on right side of the unit. Push the pin in completely and secure with clip (2) from the inside the rotor as shown.

Return the pin to its storage position and secure with the clip before operating the Timber Ax, or when work or maintenance is finished.

⚠	**CAUTION:** *Do not operate the Timber Ax with the locking pin inserted into the locking hole. Severe damage to the Timber Ax could occur.*

⚠	**WARNING:** *Do not remove the locking pin for any reason when one or more knives are missing from the rotor assembly. The imbalance could cause the rotor to turn without warning causing serious personal injury.*

Getting Started

WARNING: *Due to the potential danger of flying debris, it is the owner's responsibility and is "ABSOLUTELY MANDATORY that IMPACT-RESISTANT SHIELDING" be installed on the machine to protect the operator.*

WARNING: *Lifting or tilting the Timber Ax increases the risk of flying debris.*

DANGER: *Keep hands and feet out! Do not step on or climb over the unit while machine is in operation, or engine is running. Do not carry passengers.*

WARNING: *Do not operate the attachment above the rated RPM. Check with your Loftness dealer to be sure your attachment is set-up with the correct hydraulic motor to match the hydraulic flow GPM (Gallons Per Minute) of your machine.*

WARNING: *Flying debris can gather on the skid-steer and needs to be cleaned off, especially around the radiator and oil cooler screens, engine compartment and exhaust areas. Periodic cleaning will help prevent the possibility of fire.*

WARNING: *DO NOT allow ANY people or animals within 300 feet of the work area while operating this machine.*

Operation

Tilt attachment mounting frame back and raise the Timber Ax slightly above the ground when moving the Timber Ax and machine.

NOTE: *Operate the Timber Ax as low to the ground as possible without the blades striking ground or other obstructions.*

WARNING: *Lifting or tilting the Timber Ax increases the risk of flying debris.*

WARNING: *DO NOT allow ANY people or animals within 300 feet of the work area while operating this machine.*

Lower the Timber Ax until the skids contact the ground. Engage the auxiliary hydraulics. Move the loader and Timber Ax forward and begin shredding.

NOTE: *Various shredding conditions, and desired finished cut appearance, will determine proper ground speed. Heavy brush will require a forward stop and go movement to allow the Timber Ax to properly shred the brush.*


LOFTNESS

General Maintenance

To ensure efficient operation, you should inspect, lubricate, and make necessary adjustments and repairs at regular intervals. Parts that are starting to show wear should be ordered ahead of time, before a costly breakdown occurs and you have to wait for replacement parts. Keep good maintenance records, and adequately clean your Timber Ax after each use.

When reassembling components, always use new lock nuts and a thread-locking compound to insure against vibration loosening. Use an anti-seize compound on all bearing/shaft contacts.

Proper lubrication is important. Too little lubricant will cause premature failure of a bearing. Too much lubrication usually causes high operating temperature and early failure of seals. Follow all lubrication instructions and schedules included in this section.

HOURS	SERVICE POINTS	SERVICE REQUIRED					
		CHECK	CLEAN	CHANGE	GREASE	ADJUST	OIL
Every 8	Machine		X				
	Loose Bolts					X	
	Hoses and Wiring	X					
	Oil Leaks	X					
	Rotor Bearing				X		
	Knives	X					
Every 50	Belt Tensioner				X		
	Pusher Bar (if equipped)				X		
Every 100	Belt Tension	X					
	Safety Labels	X					
	Drive Belt	X					
Every 500	Overhung Load Adapter	X					X

Lubrication

Grease Point Location

Belt Tensioner, left
Rotor Bearing, left

Rotor Bearing, right

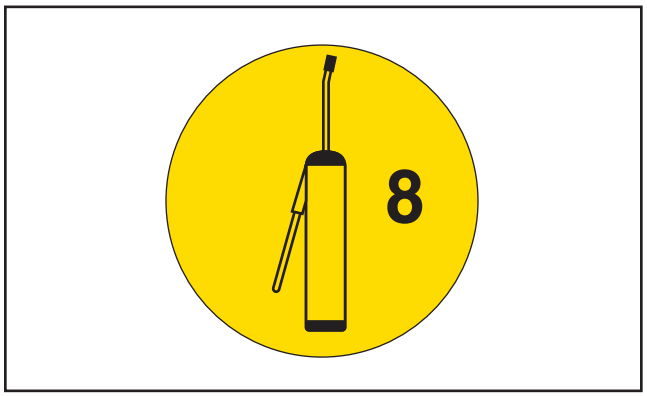
Pusher Bar, right

Pusher Bar, left

Grease Points Location (Cont'd)

Use a #2 general purpose lithium based grease unless noted otherwise.

NOTE: *Replace any broken or missing grease fittings. Be sure to clean fittings before greasing.*



NOTE: *Lubricate the grease point every "X" hours indicated on the decal adjacent to the grease point.*

Numbers below after "Location" correspond to grease point locations on opposite page.

See "Timber Ax Identification" on page 10 for component location and identification.

- **Belt Tensioner Grease Fitting**

  Location: (1) - Left side of the Timber Ax, at the base of the rear push bar arm support, adjacent to the motor shield. Top fitting.

NOTE: *Remove the belt cover when lubricating the fitting. Visually inspect the idler pulley components while lubricating. Do Not over lubricate the idler tensioner shaft.*

NOTE: *Over-lubricating may be transferred to the belt, causing the belt to slip, resulting in loss of rotor RPM speed and loss of power to the rotor.*

Interval: Every 50 hours of operation.

- **Rotor Bearings Grease Fittings**

  Location: (2) Left side: Left side of the Timber Ax, at the base of the rear push bar arm support, adjacent to the motor shield. Bottom fitting.

  (3) Right side: Located on the right side of the Timber Ax, at the top of the bearing guard.

NOTE: *Rotor bearings cannot be damaged by over-greasing. Grease fittings until a small amount of grease is purged from the bearing.*

Interval: Daily or every 8 hours of operation.

- **Pusher Bar Grease Fittings**

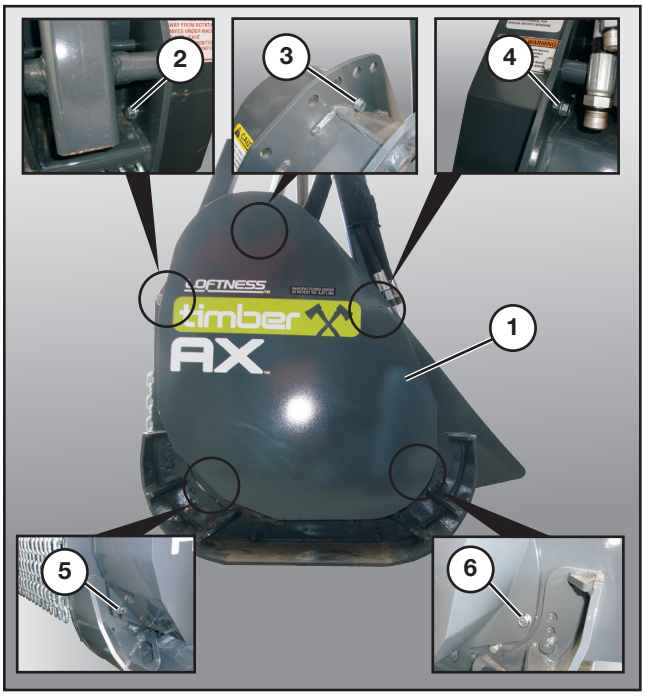
  Location: (4, 5) - Located on the lower end of the pusher arms on the front side of the Timber Ax, both left and right side. Grease fitting is located on the back side of each pusher arm (see detailed photo on opposite page).

Interval: Every 50 hours of operation.

Overhung Load Adapter

NOTE: *If replacing bearings or seals in the overhung load adapter, be certain to refill with 6 oz. of hydraulic fluid after reassembly.*

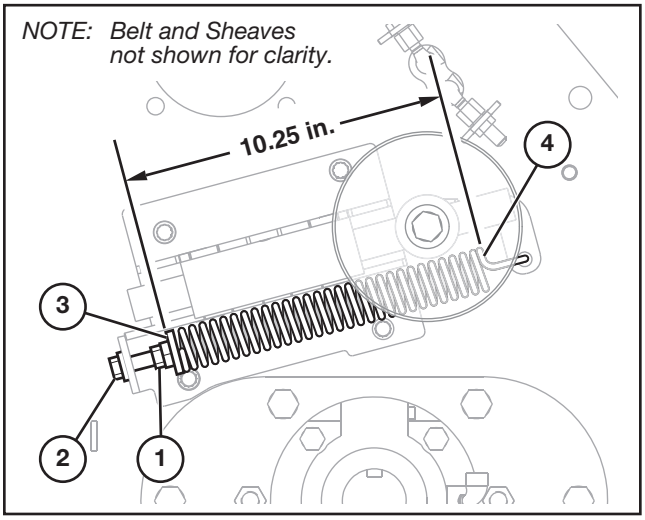
Belt Cover Removal



Remove the five bolts securing the drive belt cover (1)

NOTE: *Two bolts (5, 6) are removed from the outside of the unit and three bolts (2, 3, 4) are removed from the inside of the frame.*

Belt Adjustment



Loosen jam nut (1).

Turn adjustment bolt (2) clockwise to increase spring tension.

Turn adjustment bolt counterclockwise to decrease spring tension when replacing drive belt.

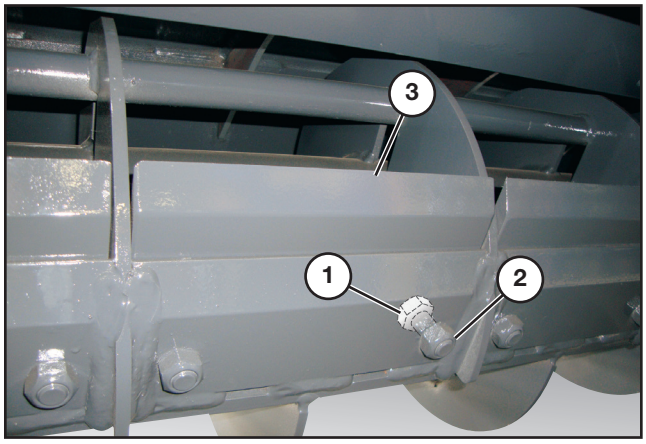
Remove the belt while belt tension is released.

NOTE: *When replacing or installing a new belt, align the grooves in the belt with the upper and lower pulleys.*

Turn the adjustment bolt clockwise until the distance from the collar (3) to the end of the spring (4) is approximately 10-1/4". Tighten jam nut (1).

Knife Replacement

Insert rotor lock pin. Refer to “Rotor Locking Pin Installation” on page 18.



Remove the 5/8" bolts (1), lock nut (2), and knife (3).

Carefully clean surface under knife before installation.

When re-installing new knife, the bolt must be inserted through the knife mount from inside the rotor to allow the nut to be on the outside as shown above.

Apply a thread-locking compound to the nut and tighten to torque values listed in chart on “Torque Specifications” on page 53.

IMPORTANT: *If a knife is replaced, the knife on the opposite side of rotor must also be replaced to maintain the balance.*

⚠	**CAUTION:** *Do not operate the Timber Ax with a missing knife. The rotor will become out of balance when spinning and severe damage to the Timber Ax could occur.*

Knife Sharpening

The Timber Ax knives need to be kept sharp for the most effective operation. Sharpening intervals will vary based on usage and operator skill level. Daily inspection and touch up is recommended. Use a 7" to 9" diameter angle grinder for the most efficient method of sharpening knives on the machine.

As the condition of the knives deteriorates to the point where hand grinding is no longer adequate, consider replacing a complete set of knives with a spare set that have been resurfaced in a machine shop. This practice of rotating in a complete set of precision sharpened knives will help maintain the same balance and performance as a new machine.

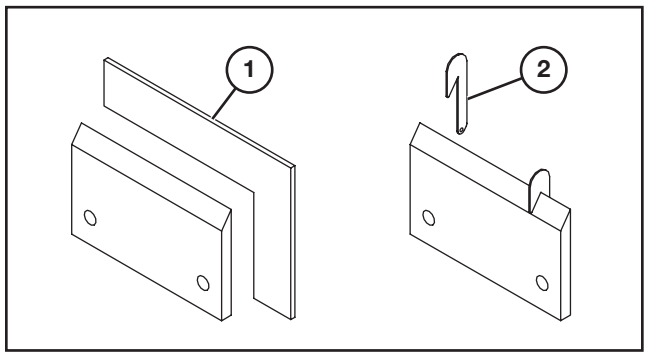
NOTE: *Knives will only need to be discarded when they no longer extend beyond the divider ribs between the knife pockets.*

NOTE: *The knives can either be removed from the attachment or remain installed for sharpening.*

⚠	**CAUTION:** *Install the rotor locking pin before attempting to remove or sharpen the knives.*

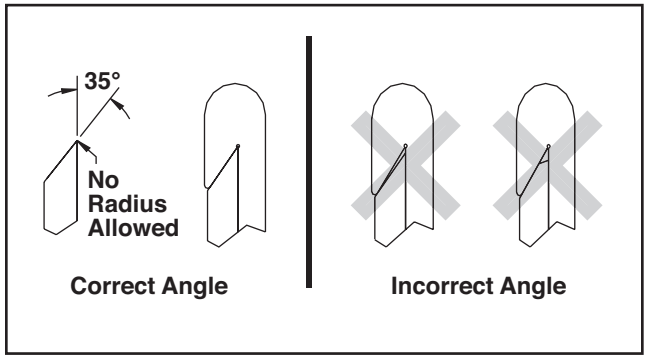
⚠	**WARNING:** *Rotor must be stabilized with the locking pin to prevent accidental rotation any time the rotor is exposed for service work. Do not remove the locking pin for any reason when one or more knives are missing from the rotor assembly. The imbalance could cause the rotor to turn without warning causing serious personal injury.*

Knife Sharpening (Cont'd)



Check the cutting edge after sharpening with a square (1) to insure a continued straight cutting surface.

Use a knife angle gauge (2) to check for the proper angle.



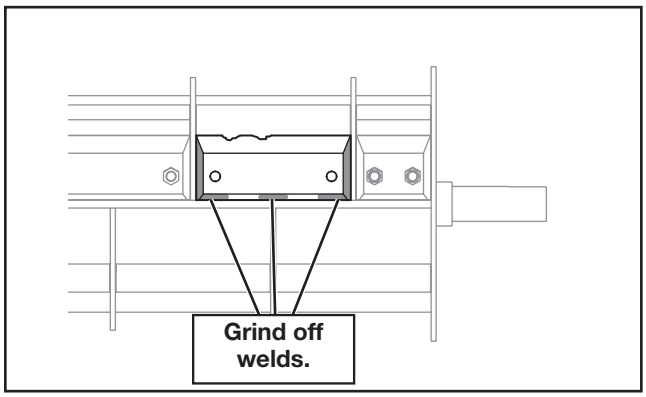
NOTE: *Sharpen each knife equally to maintain rotor balance. Always return knife to its original location if it has been removed from the rotor for sharpening.*

NOTE: *The knives have been heat treated to a specific hardness. Care must be taken to avoid overheating the leading edge of the knife while sharpening. If the coloring in the knife changes to either a blue or brown during the sharpening, you have removed the temper and the knife will not hold it's cutting edge.*

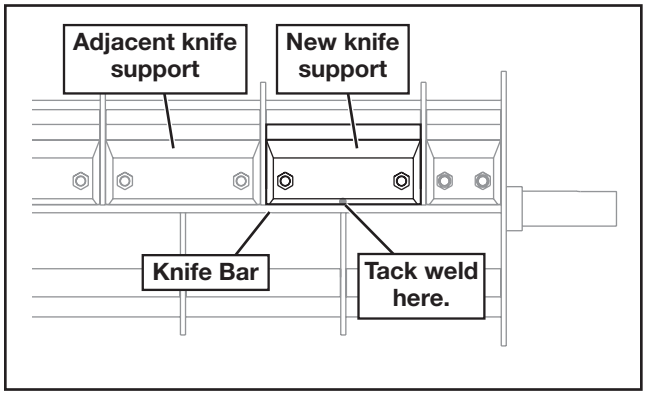
NOTE: *When re-sharpening using a hand grinder, avoid overheating the knife by lightly grinding each knife, moving across the entire row of knives before returning to the first tooth to repeat the procedure.*

NOTE: *When re-sharpening knife using machine shop equipment, avoid overheating the knife by using a flood coolant system.*

Knife Support Replacement

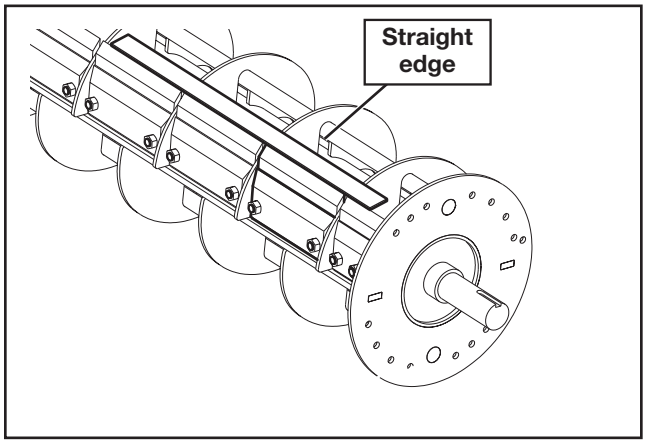


To remove broken knife support grind off all welds.



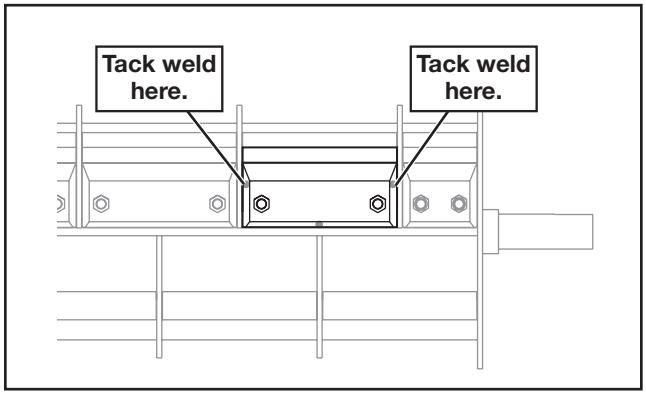
Attach knife to knife support, aligning the back edge of the replacement knife support with the adjacent knife support.

Tack weld the center of the knife support to the knife bar.

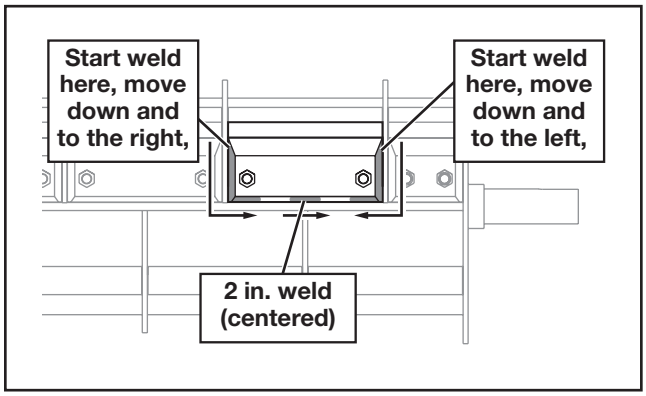


Hold a straight edge across the back edge of the knives to check that all knives are aligned.

Knife Support Replacement (Cont'd)



Tack weld the knife support in two places after aligning the knives.

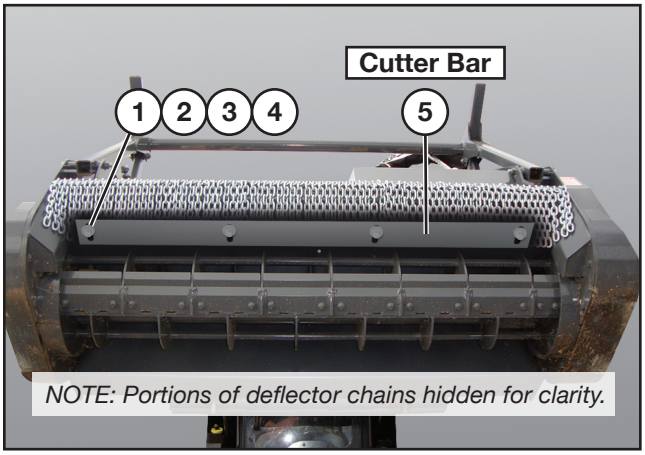


Start welding at the top and weld downward around the corner as shown. To maintain rotor balance, make multiple welding passes to fill the beveled weld area to match the factory welds.

Finish with a 2 in. weld centered on knife support.

IMPORTANT: *Rotor will need to be balanced after replacement of any knife supports.*

Cutter Bar Adjustment



NOTE: *The cutter bar can be adjusted back or forward to increase or decrease the distance between the bar and the rotor.*

Most operators find the best performance is achieved by adjusting the cutter bar as close as the slots will allow (approximately a 1/4" gap from knife to cutter bar). A wider gap generally increases finished particle size and horsepower requirements.

WARNING: *Shut down and disconnect the hydraulic hoses from the loader before adjusting the cutter bar.*

Loosen the series of four bolts (1) with washers (2) and (3), and nuts (4) securing the cutter bar (5) to the frame. Move the cutter bar either forward or back making sure the distance moved is consistent through the entire length of the cutter bar. Retighten bolts and nuts.

Over time, the cutter bar edge will become worn and rounded from use. There are a total of 4 wear edges available by removing and flipping the bar, side to side and front to back.

CAUTION: *If adjusting the cutter bar after the machine has been used, the cutter bar should be completely removed to clear any debris away from contact surfaces before assembly and tightening. FAILURE TO DO SO COULD RESULT IN SEVERE DAMAGE TO THE MACHINE!*

Maintenance

Storage

End of Season

- Clean entire Timber Ax thoroughly.
- Clean belt and pulleys, relax the belt tension.
- Lubricate all parts of the machine. See “Lubrication” on page 22.
- Make a list of all worn or damaged parts and replace them.
- Paint all parts that are worn or rusted.
- Store Timber Ax in a clean, dry area.
- Review the Timber Ax operator’s manual.

Beginning of the Season

- Review the Timber Ax operator’s manual.
- Lubricate all parts of the machine. See “Lubrication” on page 22.
- Tighten all bolts, nuts, and set screws. See “Torque Specifications” on page 53.
- Adjust belt tension. See “Belt Adjustment” on page 24.
- Replace all damaged, worn or missing decals.
- Install the Timber Ax on a skid-steer and test for proper operation.

⚠	**WARNING:** *DO NOT allow ANY people or animals within 300 feet of the work area while operating this machine.*

Motor and Sheave Selection Chart

GPM	MOTOR	DISPLACEMENT	LOFTNESS PART NUMBER	ROTOR RPM	TOP SHEAVE (LOFTNESS NUMBER) BOTTOM SHEAVE (LOFTNESS NUMBER) BELT LENGTH (LOFTNESS NUMBER)
22	Muncie	62.9cc (3.8383ci)	N34676	1671	10.30" Top Sheave (N20811) 8.00" Bottom Sheave (N20809) 63" 4B5V Belt (N28703) Model code “P”
23				1747	
24				1823	
25				1898	
26	Muncie	62.9cc (3.8383ci)	N34676	1668	9.25" Top Sheave (N21189) 8.50" Bottom Sheave (N20810) 63" 4B5V Belt (N28703) Model code “Q”
27				1732	
28				1791	
29				1861	
30				1925	
31	Muncie	62.9cc (3.8383ci)	N34676	1680	8.50" Top Sheave (N20810) 9.25" Bottom Sheave (N21189) 63" 4B5V Belt (N28703) Model code "R"
32				1734	
33				1788	
34				1842	
35				1897	
36				1951	
37	Muncie	62.9cc (3.8383ci)	N34676	1790	8.00" Top Sheave (N20809) 9.75" Bottom Sheave (N18974) 63" 4B5V Belt (N28703) Model code “S”
38				1839	
39				1887	
40				1936	

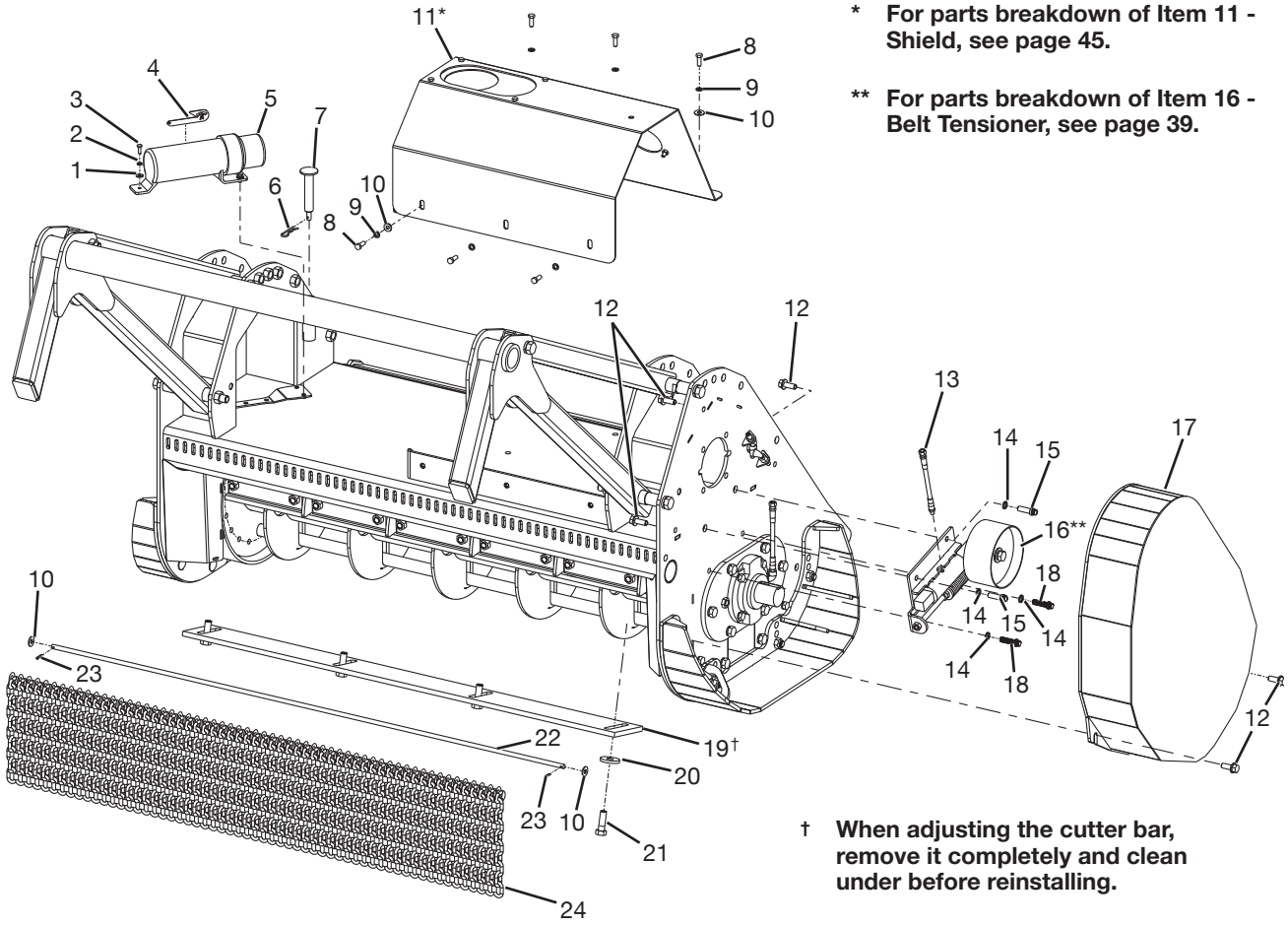
Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Excessive Vibration	Broken or missing knife.	Replace knife.
	Mud and/or debris wrapped around the rotor.	Clean the machine.
	Bearing malfunction.	Check and replace faulty rotor and drive line bearings.
	Damage to rotor (includes bent end of shafts, missing balance weights, or actual rotor deformity from striking rocks, etc.)	Consult factory.
Uneven Cutting	Knives dull or worn excessively.	Sharpen or replace knives.
	Engine RPM too slow.	Adjust machine RPM to full throttle.
	Ground speed too fast.	Reduce ground speed and increase rotor speed.
Rotor Will Not Turn	Bearing malfunction.	Check and replace.
	Belt damaged.	Replace belt.
	Belt slipping.	Clean or replace belt.
		Adjust tension.


LOFTNESS

PARTS IDENTIFICATION

Timber Ax, Body Assembly



* **For parts breakdown of Item 11 - Shield, see page 45.**

** **For parts breakdown of Item 16 - Belt Tensioner, see page 39.**

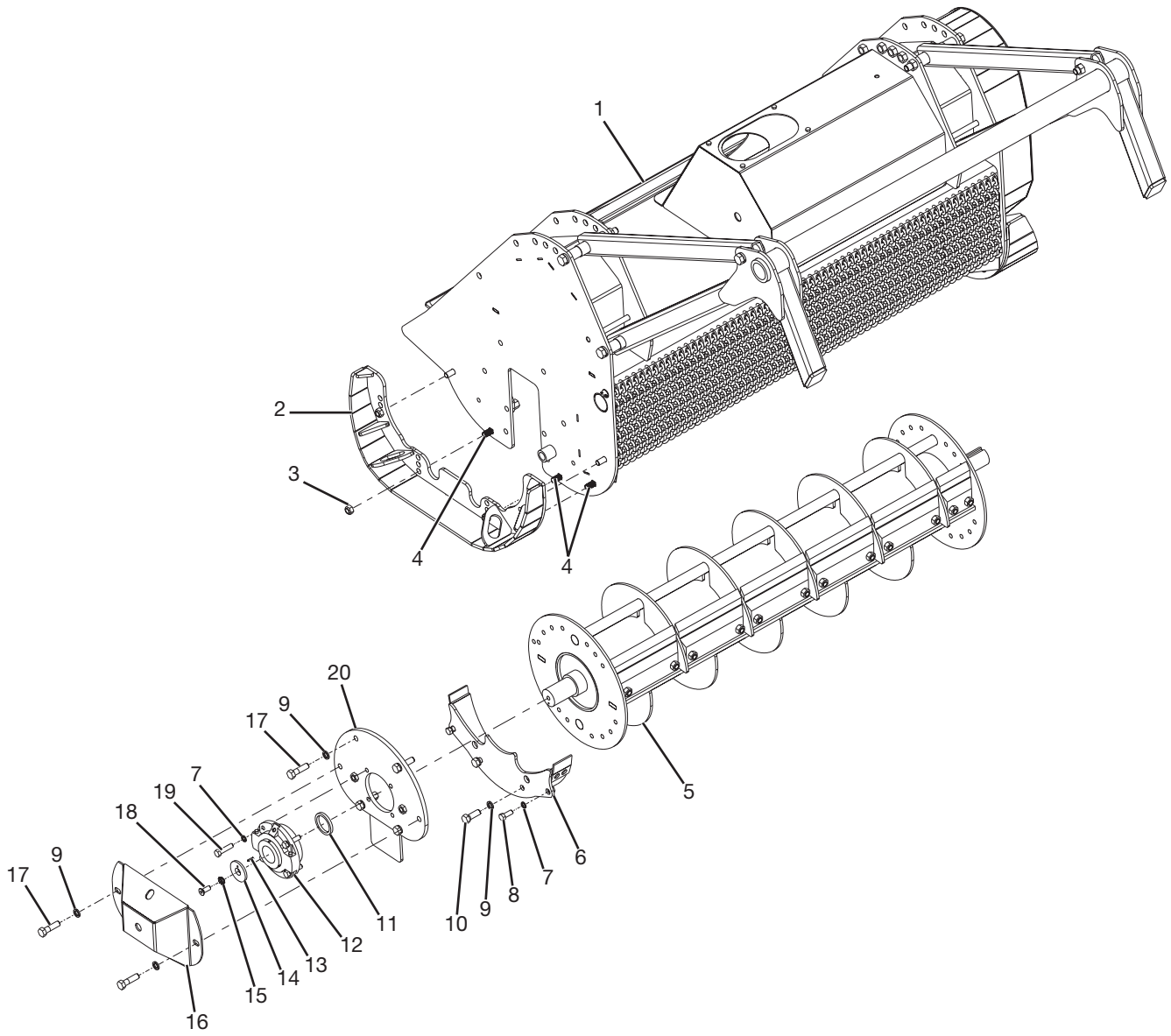
† **When adjusting the cutter bar, remove it completely and clean under before reinstalling.**

#	QTY.	PART #	DESCRIPTION
1	3	4460	WASHER, FLAT 1/4"
2	3	4231	WASHER, LOCK 1/4"
3	3	4340	BOLT, 1/4" X 3/4" GRADE 5
4	1	N13996	GAUGE, ANGLE KNIFE TIMBER AX
5	1	N19600	HOLDER, 01-315A STND. MANUAL
6	1	4336	CLIP, HAIRPIN 1/8" X 2-1/4"
7	1	N16442	PIN, ROTOR LOCK
8	6	4195	BOLT, 3/8" X 1" GRADE 5
9	6	4065	WASHER, LOCK 3/8"
10	10	4064	WASHER, FLAT 3/8"

Timber Ax, Body Assembly

#	QTY.	PART #	DESCRIPTION
11	1	N32062	SHIELD, AXH MOTOR W/O GAUGES
12	5	N18360	BOLT, 1/2" X 1-1/4" SERATED FLANGE
13	2	4304	HOSE, 15' GREASE W/FITTINGS
14	4	N16472	WASHER, 1/2 NORDLOCK
15	2	N28502	BOLT, 1/2" X 1-1/2" GRADE 8
16	1	N32030	TENSIONER, BELT 4 BAND
17	1	N32036	COVER, TIMBER AX SHORT BELT
18	2	N31536	BOLT, 1/2 X 1-3/4 12 PT GRD8
19	1	N13898	PLATE, 63" CUTTER
	1	N13796	PLATE, 73" CUTTER
	1	N13922	PLATE, 83" CUTTER
20	4	208800	WASHER, 2" OD X 11/16" ID X 1/4T
21	4	4042	BOLT, 5/8" X 2" FN TH GR 8
22	1	N16215	ROD, CHAIN 63"
	1	N16018	ROD, CHAIN 73"
	1	N16214	ROD, CHAIN 83"
23	2	4375	PIN, ROLL 3/16" X 1"
24	69	N23194	CHAIN, 5/16 DEFLECTOR 10 LINK - 63"
	79	N23194	CHAIN, 5/16 DEFLECTOR 10 LINK - 73"
	89	N23194	CHAIN, 5/16 DEFLECTOR 10 LINK - 83"

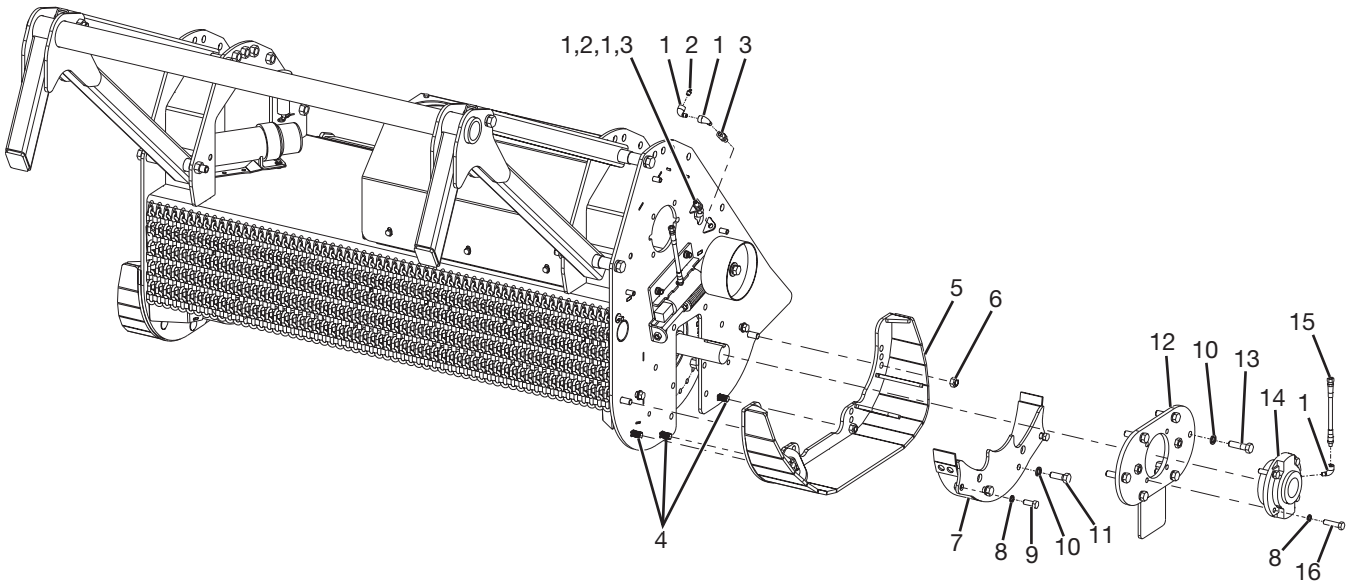
Body, Right Side



Body, Right Side

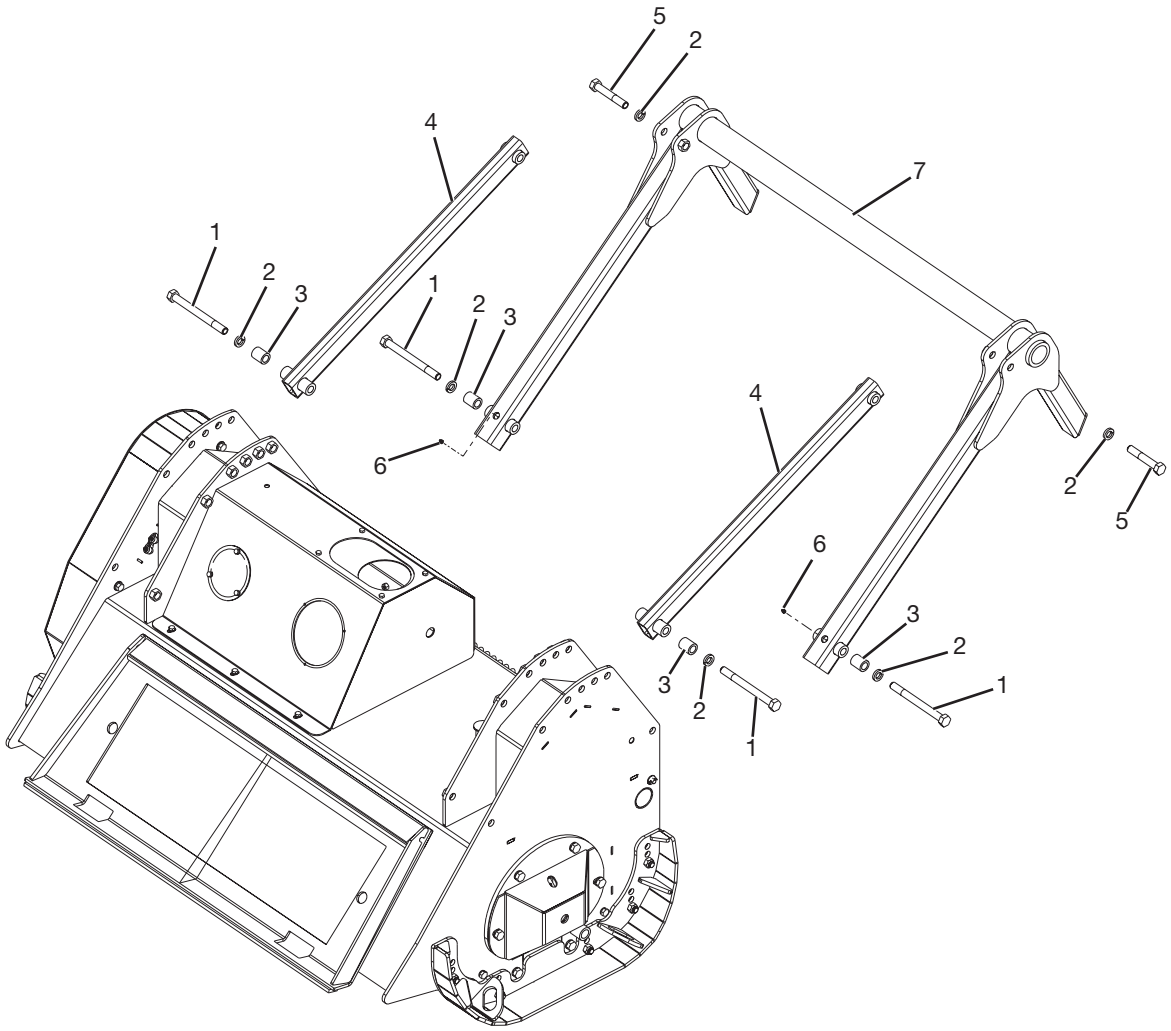
#	QTY.	PART #	DESCRIPTION
1 Not a replacement part.	1	N31522	BODY, 63" TIMBER AX SHORT
	1	N31519	BODY, 73" TIMBER AX SHORT
	1	N31525	BODY, 83" TIMBER AX SHORT
2	1	N20542	SKID, RIGHT ADJ AXH 3" SHORT
3	5	4055	NUT, LOCK 5/8" TOP
4	3	4386	BOLT, CARRIAGE 5/8" X 1-1/2"
5	1	N13899	ROTOR, 63" W/KNIVES
	1	N13831	ROTOR, 73" W/KNIVES
	1	N13923	ROTOR, 83" W/KNIVES
6	1	N20525	ANTIWRAP, AXH SPLIT BOTTOM
7	6	N16472	WASHER, 1/2 NORDLOCK
8	2	4012	BOLT, 1/2" X 1 - 1/4" GRADE 5
9	8	N16473	WASHER, 5/8 NORDLOCK
10	2	N13747	BOLT, 5/8" X 1-3/4" GR 8 FN TH
11	1	N16445	BUSHING, 2-3/16 ID" X 2-3/4"OD
12	1	214404	BEARING, 2-3/16" PILOT ROLLER
13	1	4085	PIN, ROLL 3/16" X 3/4"
14	1	4075	WASHER, 2-5/8" OD BEARING RETAINING
15	1	4076	WASHER, 1/2" EXT CNTSK LOCK
16	1	N20577	GUARD, AXH SHORT BEARING
17	6	4494	BOLT, 5/8" X 2-1/4" GRADE 8 FINE THREAD
18	1	4468	SCREW, 1/2"-20UNF X 1-1/4" FN TD FL HD CAP
19	4	N16475	BOLT, 1/2" X 2" FN TD GRADE 8
20	1	N20573	MOUNT, AXH SMALLER BEARING

Body, Left Side



#	QTY.	PART #	DESCRIPTION
1	5	4472	ELBOW, 1/8" 90 DEG.STREET
2	2	N17007	GREASE ZERK, 1/8" NPT
3	2	4304-10	BULKHEAD, FITTING-GREASE HOSE
4	3	4386	BOLT, CARRIAGE 5/8" X 1-1/2"
5	1	N32035	SKID, LEFT ADJ AXH 3" SHORT
6	5	4055	NUT, LOCK 5/8" TOP
7	1	N20525	ANTIWRAP, AXH SPLIT BOTTOM
8	6	N16472	WASHER, 1/2 NORDLOCK
9	2	4012	BOLT, 1/2" X 1 - 1/4" GRADE 5
10	8	N16473	WASHER, 5/8 NORDLOCK
11	2	N13747	BOLT, 5/8" X 1-3/4" GR 8 FN TH
12	1	N32041	MOUNT, AXH SMALLER BEARING
13	6	4494	BOLT, 5/8" X 2-1/4" GRADE 8 FINE THREAD
14	1	214404	BEARING, 2-3/16" PILOT ROLLER
15	1	4304	HOSE, 15' GREASE W/FITTINGS
16	4	N16475	BOLT, 1/2" X 2" FN TD GRADE 8

Pusher Bar



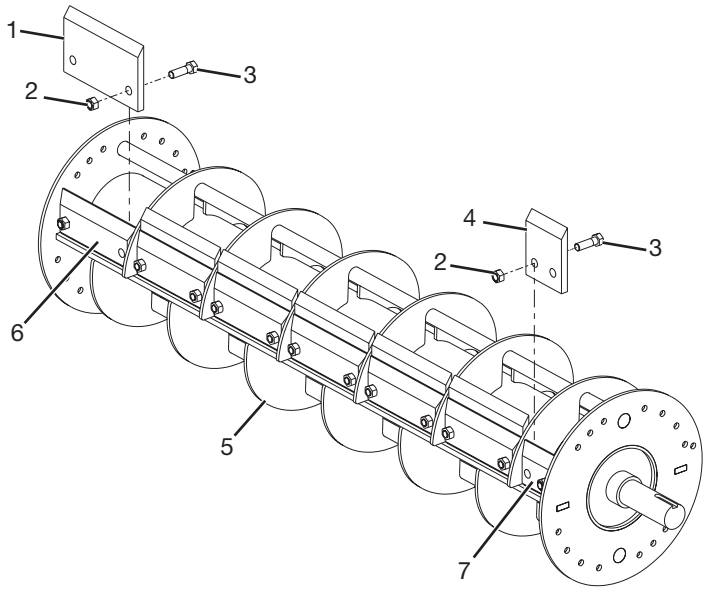
#	QTY.	PART #	DESCRIPTION
1	4	4960	BOLT, 3/4" X 8" GRADE 5
2	6	4287	WASHER, 3/4" LOCK
3	4	N20414	BUSHING, AXH PUSHER SPACER
4	2	N19048	ARM, CARBIDE PUSHER MECHANICAL
5	2	4244	BOLT, 3/4" X 4-1/2" GRADE 5
6	2	4105	GREASE-ZERK, 1/4" SCREW-IN
7	1	N20100	PUSHER, 61" CARBIDE AND TIMBER AX
	1	N20167	PUSHER, 71" CARBIDE AND TIMBER AX
	1	N20169	PUSHER, 81" CARBIDE AND TIMBER AX

Rotor, with Knives

To order a complete 63" rotor alloy knife kit (Items 1, 2, 3, 4), use part number N15921.

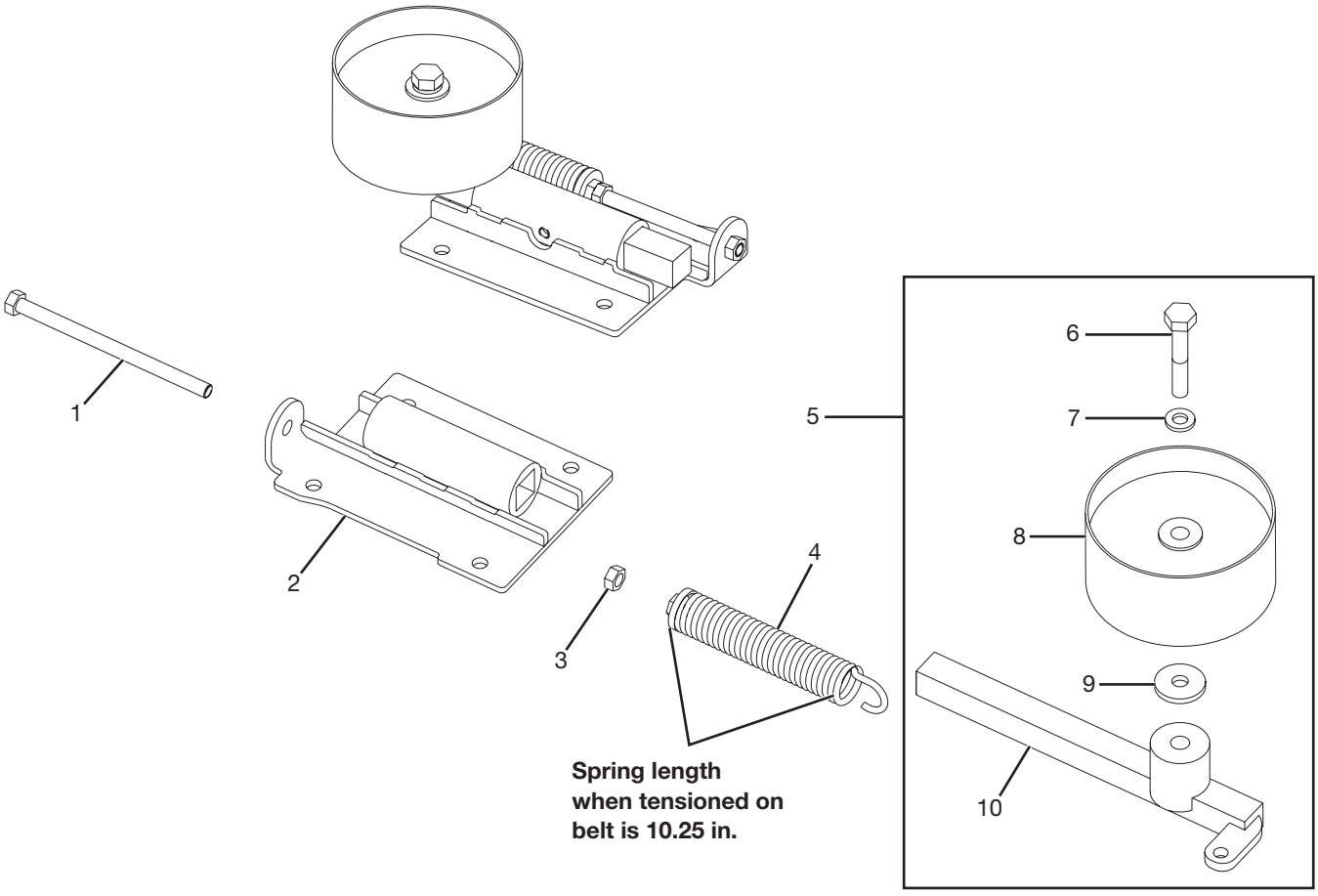
To order a complete 73" rotor alloy knife kit (Items 1, 2, 3, 4), use part number N15922.

To order a complete 83" rotor alloy knife kit (Items 1, 2, 3, 4), use part number N15923.



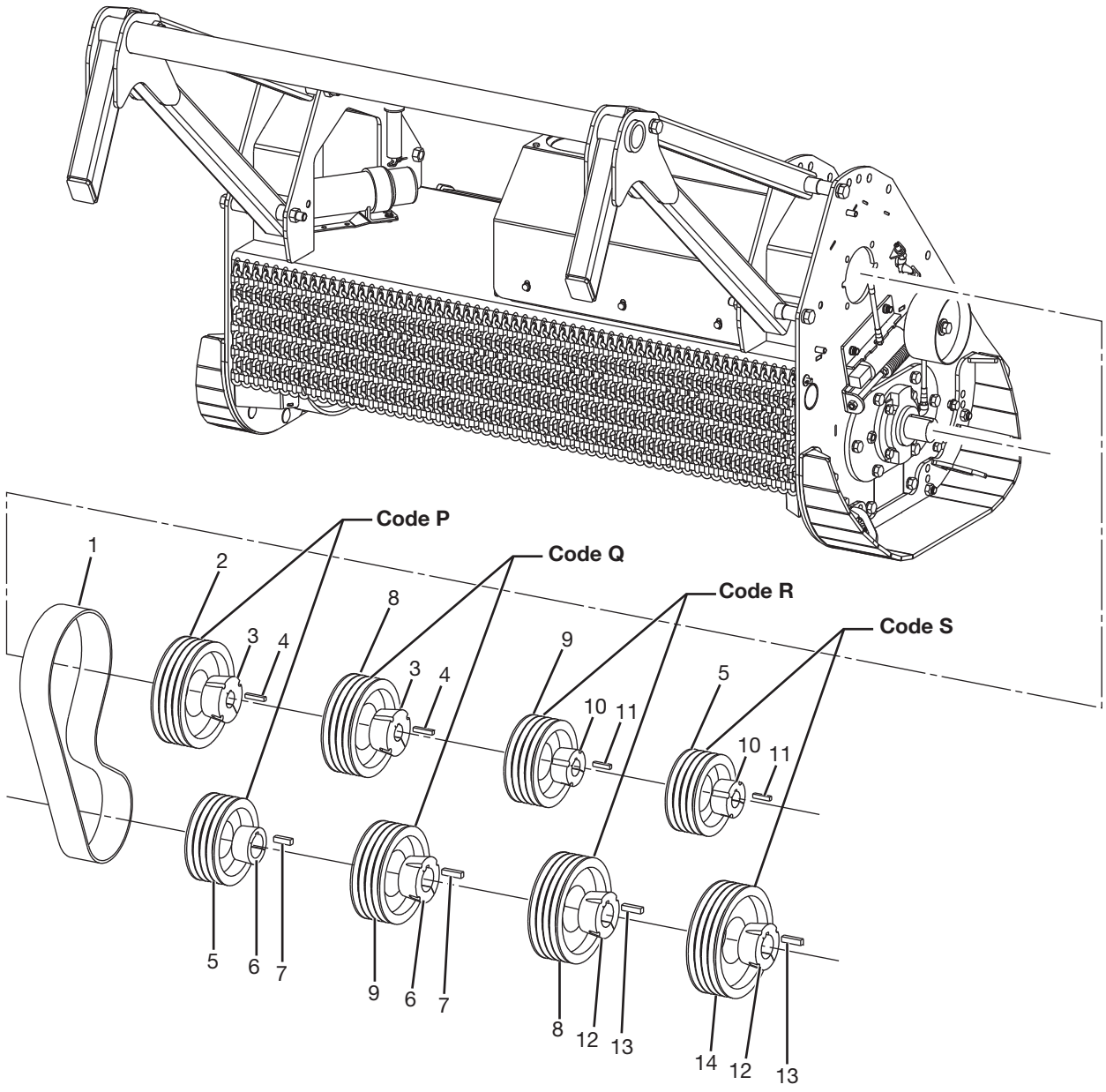
#	QTY.	PART #	DESCRIPTION
1	12	N17037	(63")
	14	N17037	(73")
	16	N17037	(83")
2	28	4057	(63")
	32	4057	(73")
	36	4057	(83")
3	28	4042	(63")
	32	4042	(73")
	36	4042	(83")
4	2	N17038	KNIFE, 4-5/8" X 5/8" ALLOY MAT
5	1	N13900	ROTOR, 63" W/O KNIVES
	1	N13832	ROTOR, 73" W/O KNIVES
	1	N13924	ROTOR, 83" W/O KNIVES
6	1	N13828	SUPPORT, 10" KNIFE (SERVICE PART)
7	1	N13829	SUPPORT, SHORT KNIFE (SERVICE PART)

Belt Tensioner (N32030)



#	QTY.	PART #	DESCRIPTION
1	1	N24596	ROD, THREADED 1/2 X 7.66 W/NUT
2	1	N32029	BASE, BELT TIGHT SQ SLIDE
3	1	4250	NUT, STANDARD 1/2"
4	1	N24211	SPRING, BELT TIGHTENER
5	1	N32032	SLIDE, BELT TIGHT SQ ASSY CCH
6	1	N31827	BOLT, 5/8" X 2-3/4" GRADE 8
7	1	N16473	WASHER, 5/8 NORDLOCK
8	1	N10508	PULLEY, IDLER BELT 6-1/2" OD X 5/8" BORE
9	VARIES	N28269	WASHER, HARDENED 5/8 1-3/4OD
10	1	N32031	SLIDE, WLDMNT CCH SQ BELT TENSN

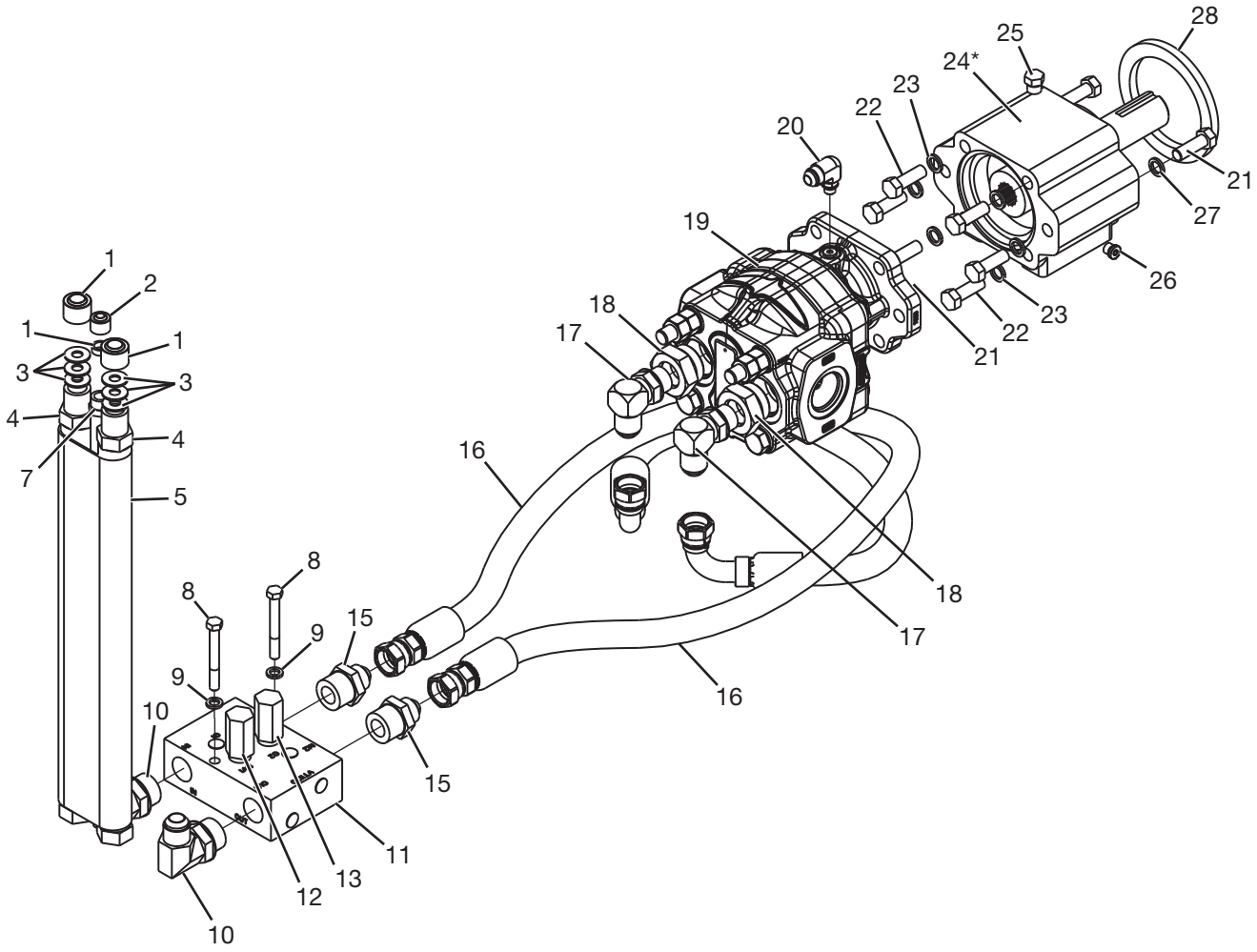
Motor and Sheave Options



Motor and Sheave Options

#	QTY.	PART #	DESCRIPTION
1	1	N28703	BELT, 4/5VX 63 GATES
2	1	N20811	SHEAVE, 4/5V X 10.30-3020
3	2	N20805	BUSHING, 1-1/2" TPL 3020
4	2	7121-03	KEY, 3/8" X 2 "
5	2	N20809	SHEAVE, 4/5V X 8.0 DIA
6	2	8165	BUSHING, 2-3/16" TPL. DOD. 117715
7	2	N27290	KEY, 1/2" X 1-3/4" EXTRA HARDENED
8	2	N21189	SHEAVE, 4/5V X 9.25-3020
9	2	N20810	SHEAVE, 4/5V X 8.50-2517
10	2	8126	BUSHING, 1-1/2" TAPERLOCK KEYED
11	2	7121-02	KEY , 3/8" X 1-3/4"
12	2	N18975	BUSHING, 2-3/16" TPL 1/2" KEY 117121
13	2	7122-04	KEY, 1/2" X 2 "
14	1	N18974	SHEAVE, 4/5V X 9.75 DIA

Motor, Muncie



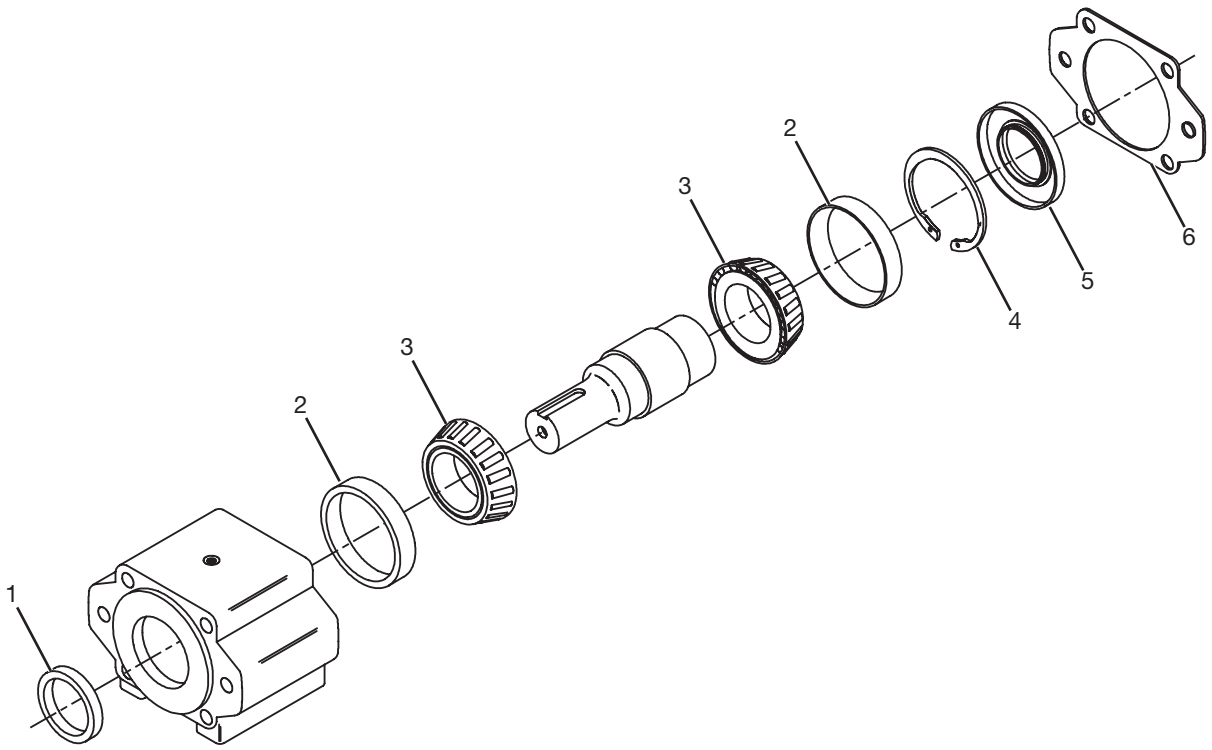
To order the Viton Seal Kit (not shown) for Items 12 (N49140) and 13 (N49141), use part number N49142.

*** For parts breakdown of Item 24 - Overhung Load Adapter, see page 44.**

Motor, Muncie

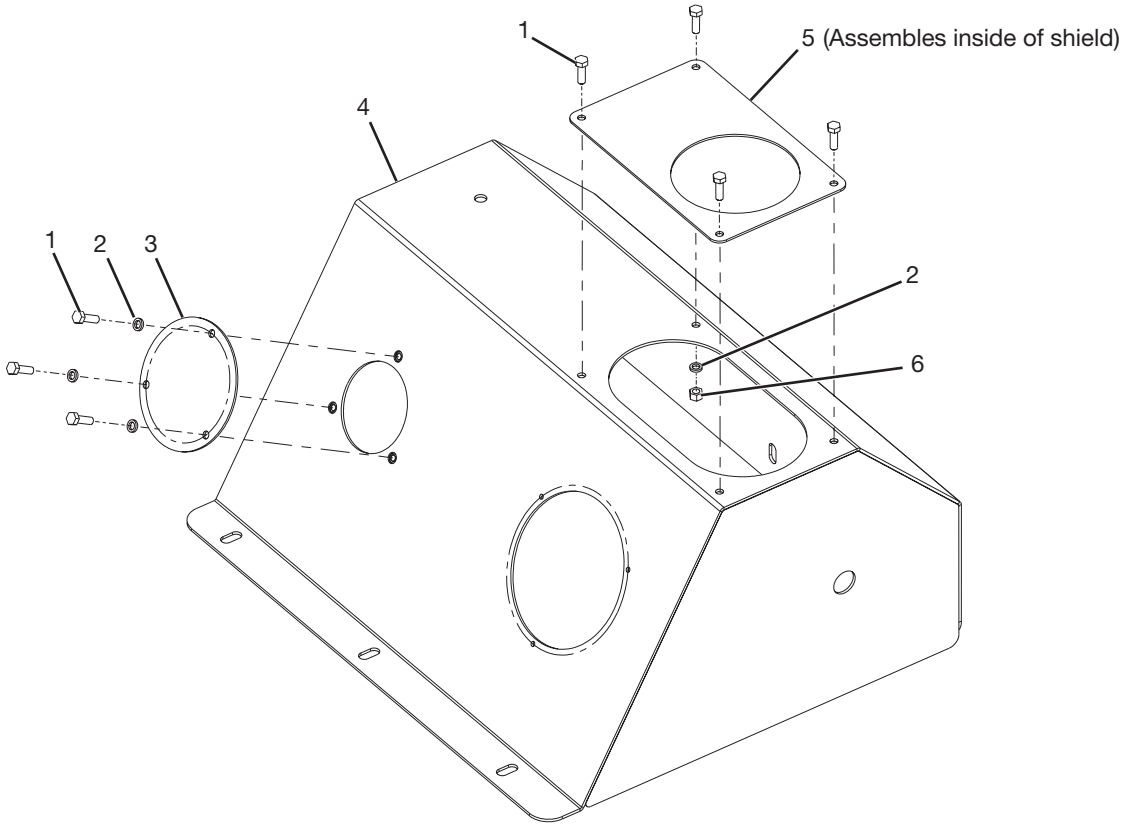
#	QTY.	PART #	DESCRIPTION
1	2	N15893	CAP, 3/4 ALUMINUM HOSE
2	1	N15895	CAP, 1/2 ALUMINUM HOSE
3	6	4064	WASHER, FLAT 3/8"
4	2	N20038	HOSE, 3/4" X 108" HYD 5000 PSI W/O SLEEVE
5	1	N15999	SLEEVE, HOSE 5.31 X 7'6"
6	1	N32002	PLUG, 3/8 SCH 40 X .25
7	1	N15945	HOSE, 1/2" X 126" -8FJX -8MOR
8	2	4007	BOLT, 3/8" X 3" GRADE 5
9	2	N16470	WASHER, 3/8 NORDLOCK
10	2	N13876	ELBOW, 90 DEG - 16MOR - 12MJIC
11	1	N34677	BODY, VALVE CROSS PORT RELIEF
12	1	N49140	VALVE, 4200 PSI RELIEF
13	1	N49141	VALVE, 500 PSI RELIEF
14	1	N49142	KIT, VITON SEAL (Not Shown)
15	2	N13881	ADAPTER, 16MOR -12MJIC
16	2	N16123	HOSE, 3/4" X 44"-12FJX90-12FJX
17	2	N11945	ELBOW, 90 DEG 12MOR - 12MJIC
18	2	N31225	ADAPTER, 20MOR - 12FOR
19	1	N34676	MOTOR, MUNCIE 62.9CC
20	1	N34763	ELBOW, 90 -8MJIC -4MORB
21	1	N34699	SEAL, SHAFT MUNCIE 62.9
22	8	4466	BOLT, 1/2" X 1-1/2" GRADE 8
23	6	N16472	WASHER, 1/2 NORDLOCK
24	1	205079	ADAPTER, OVERHUNG LOAD MOTOR #2
25	1	N14118	PLUG, 6MOR HEX
26	1	N16578	PLUG, 4MOR HOLLOW HEX
27	2	N37780	WASHER, 1/2 NORDLOCK SP
28	1	N16573	ADAPTOR, OVERHUNG LOAD 3/8

Overhung Load Adapter (205079)



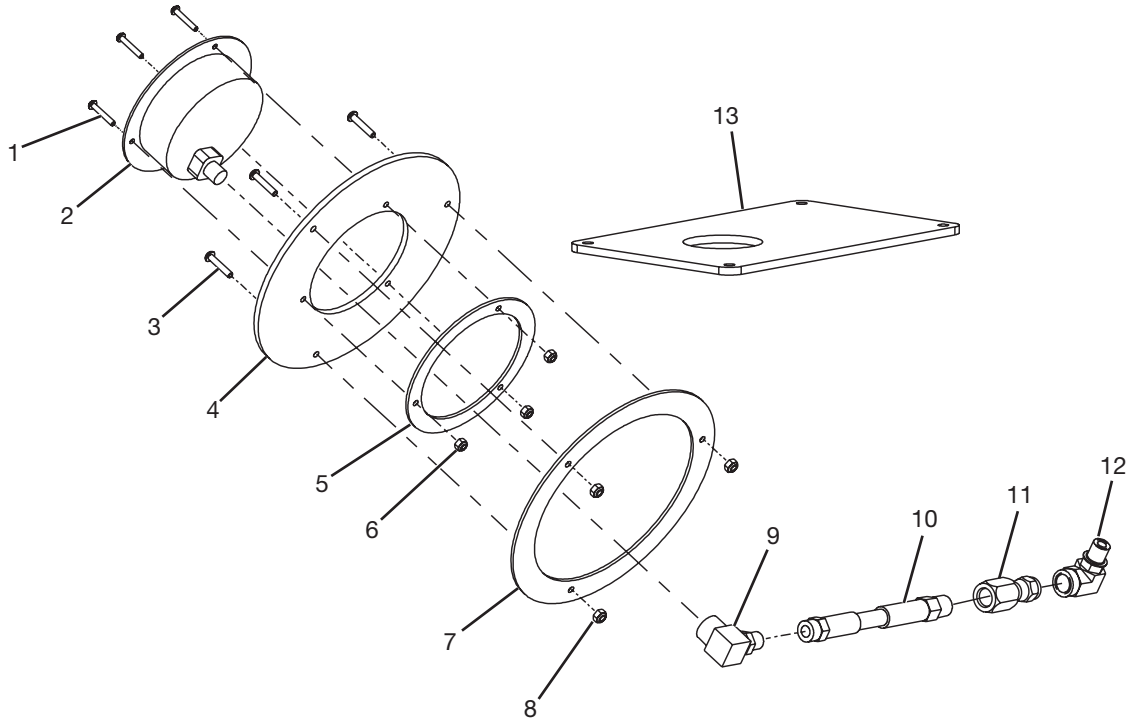
#	QTY.	PART #	DESCRIPTION
1	1	N14151	SEAL, FRONT (1.50" I.D. X 2.13" O.D. X .312" THK)
2	2	N14152	CUP, BEARING
3	2	N14153	CONE, BEARING
4	1	N14156	RING, RETAINING
5	1	N14157	SEAL, REAR (55MM X 90MM X 10MM)
6	1	N14158	GASKET

Shield, AXH Motor w/o Gauges (N32062)



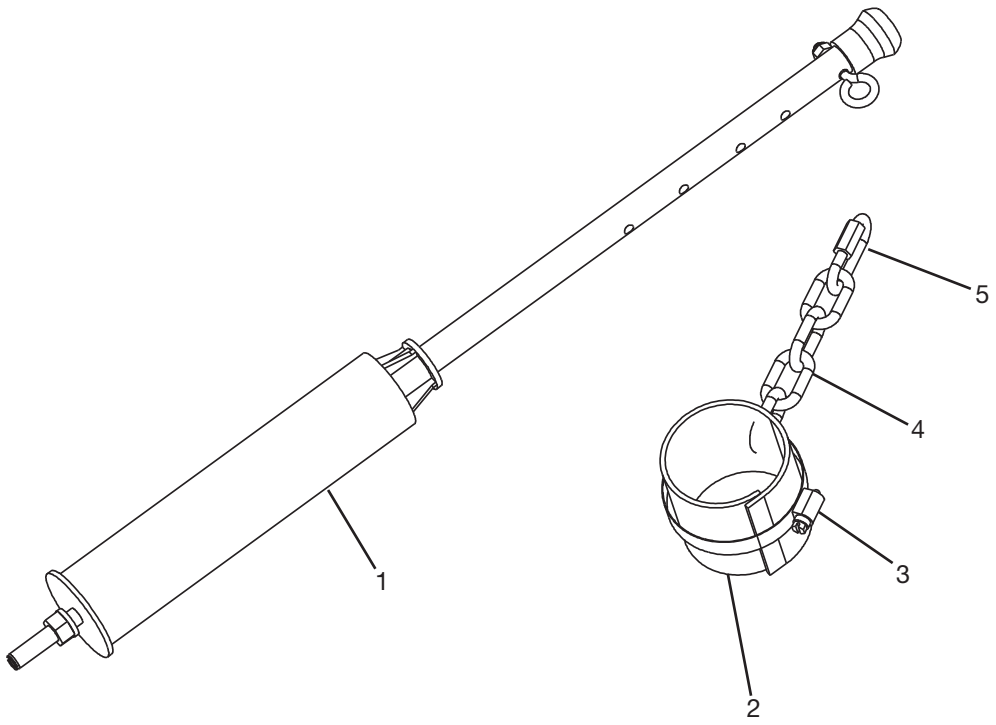
#	QTY.	PART #	DESCRIPTION
1	7	4203	BOLT, 5/16" X 1" GRADE 5
2	7	N16469	WASHER, 5/16 NORDLOCK
3	1	N20198	COVER, CARBIDE MOTOR SHIELD HOLE
4	1	N32063	SHIELD, AXH MOTOR W/O GAUGES
5	1	N20753	FLANGE, AXH MOTOR SHIELD
6	4	4237	NUT, 5/16" STANDARD

Gauge



#	QTY.	PART #	DESCRIPTION
1	3	N16132	BOLT, BHCS #8-32 X 1
2	1	200692	GAUGE, 0-6000 PSI 4" PRESS
3	3	N16333	BOLT, BHCS #10-32 X 1
4	1	N16332	FLANGE, MOUNT GAUGE
5	1	N16331	FLANGE, MOUNT GAUGE #8
6	3	N16133	NUT, NYLON INSERT #8
7	1	N16335	FLANGE, MOUNT #10
8	3	N16334	NUT, NYLON INSERT #10
9	1	N16162	ELBOW, 1/4" NPT 90 DEG STREET
10	1	N16067	HOSE , 1/4" X 24" X 5000 PSI
11	1	N28993	ADAPTER, -6FJIC -6FP
12	1	N28907	ELBOW, 90DEG -6MJIC -4MOR
13	1	N20752	FILLER, AXH MOTOR SHIELD RUBBER

Holder, Hose Stick and Chain (N20403)



#	QTY.	PART #	DESCRIPTION
1	1	N15956	HOLDER, HOSE WITH EXTRA HOLES
2	1	N15939	PROTECTOR, RUBBER 3" HOSE
3	1	N15938	CLAMP, 3-1/2" HOSE
4	1	N20218	CHAIN, HOSE SUPPORT 4-LINK
5	1	N15247	LINK, 1/4" CHAIN CONNECTOR

Machine Decals and Signs

NOTE: *All safety related decals are also shown in the Safety Instructions Section along with their location on the machine. See "Safety Decal Locations" on page 11.*

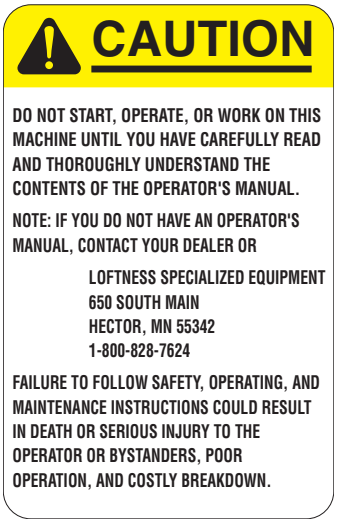
Check and replace any worn, torn, hard to read or missing decals on your machine.

NOTE: *To order a complete Timber Ax Decal kit use part number N21843.*

Part No. N28386

Part No. 4189

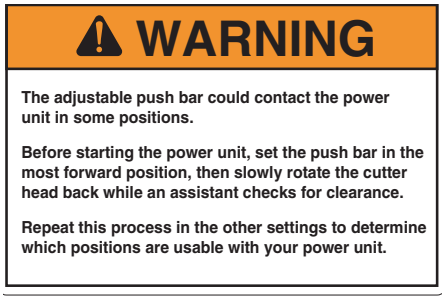
Part No. 4256



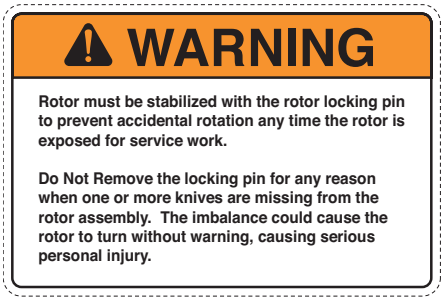
Part No. 4334

Part No. N13863

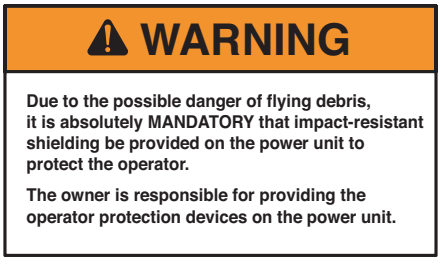
Part No. N17014



Part No. N16759



Part No. N17013



Machine Decals and Signs (Cont'd)

Part No. N20661

⚠ WARNING

Flying Debris can gather on the skid-loader and needs to be cleaned off, especially around the radiator and oil cooler screens, engine compartment and exhaust areas. Periodic cleaning will help prevent the possibility of fire.

Part No. N28385

⚠ WARNING ⚠

IMPROPER CONNECTION TO THE POWER UNIT'S HYDRAULIC SYSTEM COULD CAUSE SERIOUS COMPONENT DAMAGE AND PERSONAL INJURY.

This attachment can be configured with different components to operate on a variety of power units, with or without case drain connections.

It is absolutely MANDATORY that you refer to your OPERATOR'S MANUAL for Set-up Instructions and Pressure Ratings that apply to the components used on this unit.

The dealer/owner will be responsible for any damage caused by improper connection to the power unit.

For technical assistance call Loftness/US Attachments at 800-828-7624
International: 320-848-6266 www.loftness.com

Part No. 203264

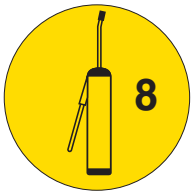
⚠ WARNING:

This product can expose you to Mineral Oil, which is known to the State of California to cause cancer. For more information, go to www.p65warnings.ca.gov.

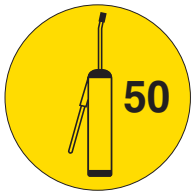
203264

NOTE: *Grease point decals, N28010 and N28012, are shown in their locations in the Lubrication section. See "Grease Point Location" on page 22.*

Part No. N28010



Part No. N28012

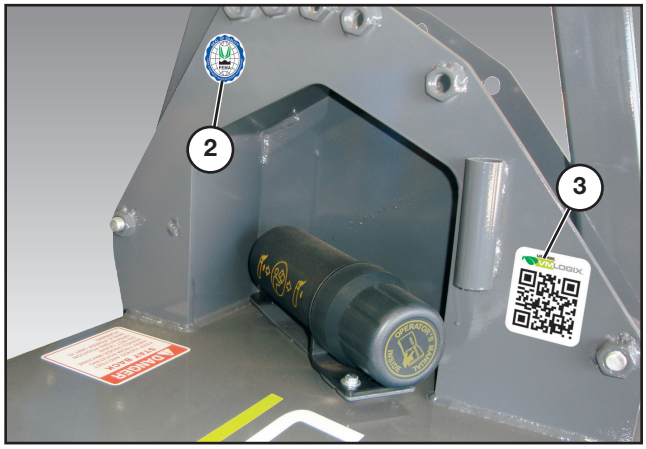


1

Model Number

Serial Number

Part No. N13721



2

SEAL OF QUALITY
FEMA
FARM EQUIPMENT MANUFACTURERS ASSOCIATION

Part No. 4138

3

LOFTNESS
VMLOGIX

Part No. N33105

Machine Decals and Signs (Cont'd)

4

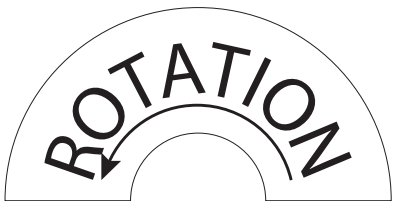
Part No. N13517

5

LOFTNESS
timber
AX

Part No. N28525

6

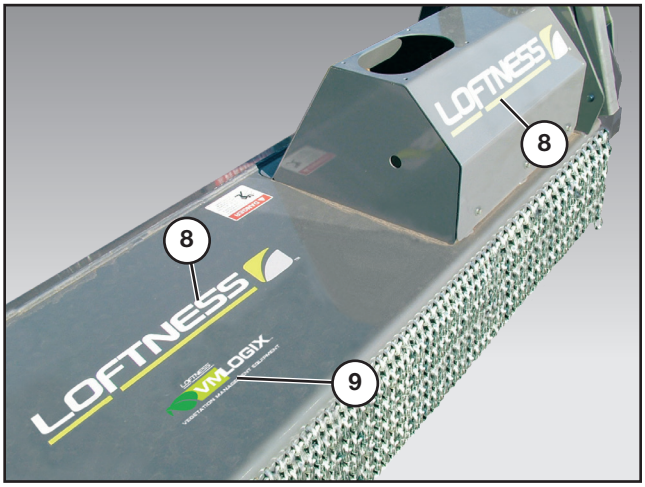


Part No. N13872

7

LOFTNESS
timber
AX

Part No. N28526



8

LOFTNESS

Part No. N26973

9

LOFTNESS
VMLOGIX
VEGETATION MANAGEMENT EQUIPMENT

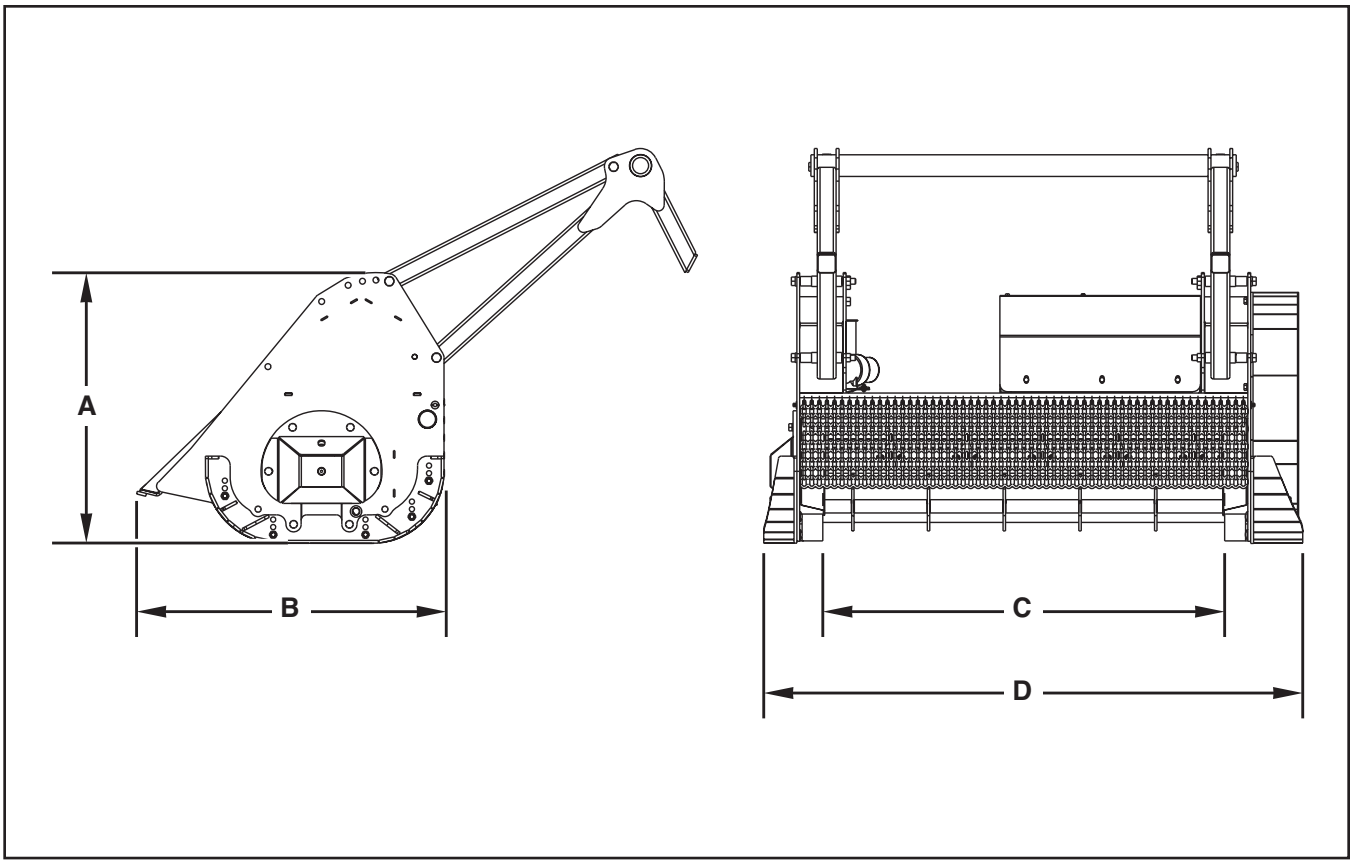
Part No. N28576

Specifications

DESCRIPTION	TIMBER AX
Cutting Width	63 in. (160.02 cm)
	73 in. (185.42 cm)
	83 in. (210.82 cm)
Operating Capacity	6 in. (15.2 cm) Continuous
	Intermittently cuts larger diameter material
Capacity Monitor	Pressure Gauge
Motor	Fixed Displacement
Rotor Bearing	2.1875 in. Piloted Double Taper
Rotor Tip Diameter	17 in. (43.2 cm)
Sheaves	Taperlock
Belt	Four Band 5VX Type
Belt Tightener	Spring Loaded Tensioner
Mount	Universal Skid Type
Shear Bar	Adjustable
Pusher Bar	Adjustable Ridgid Bar
Knives	Hardened Alloy Steel Blades
Skid Shoes	Adjustable 1 in. (2.5 cm) - 3 in. (7.6 cm)
Deflector	Steel Chain
Anti-Wrap Protection	Bearing

Appendix

Dimensions



DESCRIPTION	Timber Ax		
	63	73	83
Cutting Width (C)	63 in. (160.02 cm)	73 in. (185.42 cm)	83 in. (210.82 cm)
Overall Width (D)	81.19 in. (206.20 cm)	91.19 in. (231.62 cm)	101.19 in. (257.02 cm)
Operating Height (A)	35.75 in. (90.81 cm)	35.75 in. (90.81 cm)	35.75 in. (90.81 cm)
Overall Length (B)	40.61 in. (103.15 cm)	40.61 in. (103.15 cm)	40.61 in. (103.15 cm)
Number Of Knives	14	16	18
Weight	2,271 lb. (1,030.11 kg)	2,416 lb. (1,095.88 kg)	2,632 lb. (1,193.86 kg)
Crated Weight	2,695 lb. (1,222.43 kg)	2,775 lb. (1,258.71 kg)	3,000 lb. (1,360.78 kg)

Torque Specifications

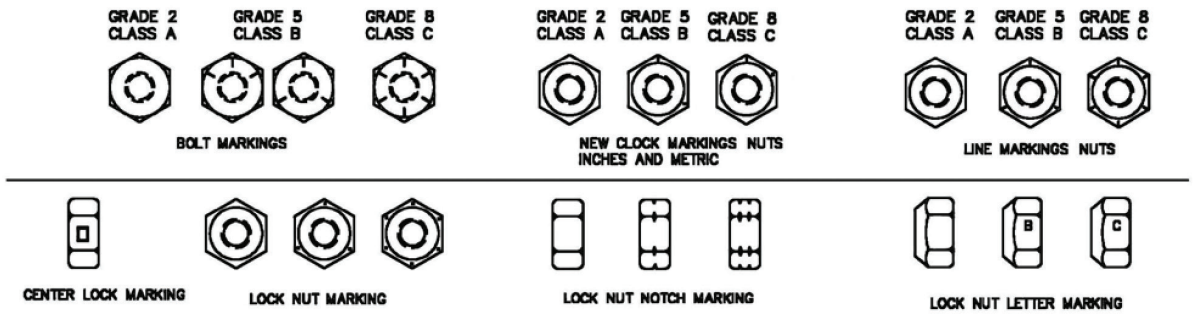
Inches Hardware and Lock Nuts

TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications
(Standard Hardware and Lock Nuts)

SAE Gr. 2	SAE Grade 5		SAE Grade 8		LOCK NUTS			
Nominal Size	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Grade W / Gr. 5 Bolt	Grade W / Gr. 8 Bolt
1/4	55 in.-lb. (6.2 N•m)	72 in.-lb. (8.1 N•m)	86 in.-lb. (9.7 N•m)	112 in.-lb. (12.6 N•m)	121 in.-lb. (13.6 N•m)	157 in.-lb. (17.7 N•m)	61 in.-lb. (6.9 N•m)	86 in.-lb. (9.8 N•m)
5/16	115 in.-lb. (13 N•m)	149 in.-lb. (17 N•m)	178 in.-lb. (20 N•m)	229 in.-lb. (26 N•m)	250 in.-lb. (28 N•m)	324 in.-lb. (37 N•m)	125 in.-lb. (14 N•m)	176 in.-lb. (20 N•m)
3/8	17 ft.-lb. (23 N•m)	22 ft.-lb. (30 N•m)	26 ft.-lb. (35 N•m)	34 ft.-lb. (46 N•m)	37 ft.-lb. (50 N•m)	48 ft.-lb. (65 N•m)	19 ft.-lb. (26 N•m)	26 ft.-lb. (35 N•m)
7/16	27 ft.-lb. (37 N•m)	35 ft.-lb. (47 N•m)	42 ft.-lb. (57 N•m)	54 ft.-lb. (73 N•m)	59 ft.-lb. (80 N•m)	77 ft.-lb. (104 N•m)	30 ft.-lb. (41 N•m)	42 ft.-lb. (57 N•m)
1/2	42 ft.-lb. (57 N•m)	54 ft.-lb. (73 N•m)	64 ft.-lb. (87 N•m)	83 ft.-lb. (113 N•m)	91 ft.-lb. (123 N•m)	117 ft.-lb. (159 N•m)	45 ft.-lb. (61 N•m)	64 ft.-lb. (88 N•m)
9/16	60 ft.-lb. (81 N•m)	77 ft.-lb. (104 N•m)	92 ft.-lb. (125 N•m)	120 ft.-lb. (163 N•m)	130 ft.-lb. (176) N•m	169 ft.-lb. (229 N•m)	65 ft.-lb. (88 N•m)	92 ft.-lb. (125 N•m)
5/8	83 ft.-lb. (112 N•m)	107 ft.-lb. (145 N•m)	128 ft.-lb. (174 N•m)	165 ft.-lb. (224 N•m)	180 ft.-lb. (244) N•m	233 ft.-lb. (316 N•m)	90 ft.-lb. (122 N•m)	127 ft.-lb. (172 N•m)
3/4	146 ft.-lb. (198 N•m)	189 ft.-lb. (256 N•m)	226 ft.-lb. (306 N•m)	293 ft.-lb. (397 N•m)	319 ft.-lb. (432 N•m)	413 ft.-lb. (560 N•m)	160 ft.-lb. (217 N•m)	226 ft.-lb. (306 N•m)
7/8	142 ft.-lb. (193 N•m)	183 ft.-lb. (248 N•m)	365 ft.-lb. (495 N•m)	473 ft.-lb. (641 N•m)	515 ft.-lb. (698 N•m)	667 ft.-lb. (904 N•m)	258 ft.-lb. (350 N•m)	364 ft.-lb. (494 N•m)
1	213 ft.-lb. (289 N•m)	275 ft.-lb. (373 N•m)	547 ft.-lb. (742 N•m)	708 ft.-lb. (960 N•m)	773 ft.-lb. (1048 N•m)	1000 ft.-lb. (1356 N•m)	386 ft.-lb. (523 N•m)	545 ft.-lb. (739 N•m)



Torque Specifications (Cont'd)

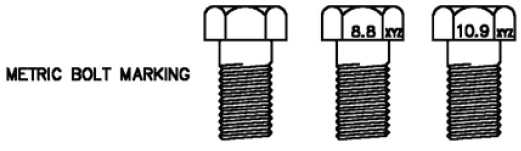
Metric Hardware and Lock Nuts

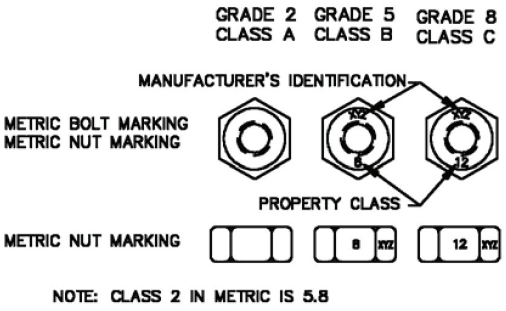
TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications
(Metric Hardware and Lock Nuts)

	Class 5,8		Class 8,8		Class 10,9		Lock nuts
Nominal Size	**Unplated or Plated Silver**	**Plated W / ZnCr Gold**	**Unplated or Plated Silver**	**Plated W / ZnCr Gold**	**Unplated or Plated Silver**	**Plated W / ZnCr Gold**	**Class 8 W / CL. 8,8 Bolt**
M4	1.7 N•m (15 in.-lb.)	2.2 N•m (19 in.-lb.)	2.6 N•m (23 in.-lb.)	3.4 N•m (30 in.-lb.)	3.7 N•m (33 in.-lb.)	4.8 N•m (42 in.-lb.)	1.8 N•m (16 in.-lb.)
M6	5.8 N•m (51 in.-lb.)	7.6 N•m (67 in.-lb.)	8.9 N•m (79 in.-lb.)	12 N•m (102 in.-lb.)	13 N•m (115 in.-lb.)	17 N•m (150 in.-lb.)	6.3 N•m (56 in.-lb.)
M8	14 N•m (124 in.-lb.)	18 N•m (159 in.-lb.)	22 N•m (195 in.-lb.)	28 N•m (248 in.-lb.)	31 N•m (274 in.-lb.)	40 N•m (354 in.-lb.)	15 N•m (133 in.-lb.)
M10	28 N•m (21 ft.-lb.)	36 N•m (27 ft.-lb.)	43 N•m (32 ft.-lb.)	56 N•m (41 ft.-lb.)	61 N•m (45 ft.-lb.)	79 N•m (58 ft.-lb.)	30 N•m (22 ft.-lb.)
M12	49 N•m (36 ft.-lb.)	63 N•m (46 ft.-lb.)	75 N•m (55 ft.-lb.)	97 N•m (72 ft.-lb.)	107 N•m (79 ft.-lb.)	138 N•m (102 ft.-lb.)	53 N•m (39 ft.-lb.)
M16	121 N•m (89 ft.-lb.)	158 N•m (117 ft.-lb.)	186 N•m (137 ft.-lb.)	240 N•m (177 ft.-lb.)	266 N•m (196 ft.-lb.)	344 N•m (254 ft.-lb.)	131N•m (97 ft.-lb.)
M20	237 N•m (175 ft.-lb.)	307 N•m (226 ft.-lb.)	375 N•m (277 ft.-lb.)	485 N•m (358 ft.-lb.)	519 N•m (383 ft.-lb.)	671 N•m (495 ft.-lb.)	265 N•m (195 ft.-lb.)
M24	411 N•m (303 ft.-lb.)	531 N•m (392 ft.-lb.)	648 N•m (478 ft.-lb.)	839 N•m (619 ft.-lb.)	897 N•m (662 ft.-lb.)	1160 N•m (855 ft.-lb.)	458 N•m (338 ft.-lb.)





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