



Draper Windrower Shredder

15' Model



Owner's Manual and Parts Book (Originating w / Serial Number 59-163)

Model Number:	
Serial Number:	
Date of Purchase: _	





LOFTNESS SPECIALIZED EQUIPMENT, INC. WARRANTY POLICY

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

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

If any Loftness product is used as rental equipment, the warranty period extends for only 30 days from the delivery date to the original customer.

Loftness Specialized Equipment, hereinafter referred to as LOFTNESS, a manufacturer of quality machinery since 1956, 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.

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. 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.

WARRANTY REQUIREMENTS

Warranty registration form must be filled out and returned to Loftness Specialized Equipment to validate all future warranty claims.

LIMITATIONS OF WARRANTY

All Products - 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:

All Shredders, Axes, Cutters & Mowers – Rotor Balance: Critical rotor balance can be affected by conditions beyond LOFTNESS' control, such as the operation of a shredder beyond the Company's rated capacity, improper knife replacement, missing knives, striking foreign objects, lack of lubrication, etc. Any failure resulting from running in as "out-of-balance" condition, such as, but not limited to bearing and or drive-line failure, metal fatigue, cracks, etc. will be considered abuse and will not be covered under warranty. LOFTNESS may elect to have an area representative evaluate the condition of the machine before warranty is considered.

To receive 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.

EXCLUSIONS OF WARRANTY

Except as otherwise expressly stated herein, LOFTNESS makes no representation or warranty of any kind, expressed or implied, and makes no warranty of merchantability in respect to its machinery and/or attachments and makes no warranty that its machinery and/or attachments are fit for any particular purpose. LOFTNESS shall not be liable for incidental or consequential damages for any breach of warranty, including but not limited to inconvenience, rental or replacement equipment, loss of profits or other commercial loss. 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.

April 2009





SPECIALIZED EQUIPMENT. UNLIMITED INNOVATION.

650 South Main Street Hector, MN 55342 USA loftness.com 320-848-6266 US & Canada 800-828-7624



International: 320-848-6266 Fax: 320-848-6269 Parts Fax: 320-848-6055 E-mail: info@loftness.com Web Address: www.loftness.com

WARRANTY REGISTRATION

Dealer No.:						
Dealer Name:				Dealer Ph	one:	
Shippi	ng Address:					
Mailing	g Address:					
City: _		State	e:		Zip:	
Invoice	e No.:	Part No.:				
Model	No.:	Serial No.: _				
P L E	FOLLOWING INFORMATION N	/UST BE	FILLED I	N COMPLET	ELY FOR W	ARRANTY:
AS	Customer: Last Name:	First		Middle Initial		
E	Mailing Address:					
P	City:		_ State:		Zip:	
R	County:			Wa	arranty (Delivered)	Date
N T	Phone:			Month	Day	Year
DEALER			PURCHASER			
The machine was properly set up, adjusted and inspected before delivery. The following items were explained to the purchaser.			I have received and reviewed the operator's manual for the above machine and understand the proper and safe operation as well as the applicable warranty outlined therein.			
* How to operate machine properly as shown in the owner's manual.		e owner's	A customer's manual is included with each machine.			
 * The importance of safety precaution, safety equipment and preventative maintenance. 		The unit was delivered to me in satisfactory condition.				
* Lot	ftness Warranty for this machine.					
<u>X</u>			X			
Dealer's Signature			Purchaser's Signature			
Date			Date			

Customer Copy



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International: 320-848-6266 Fax: 320-848-6269 Parts Fax: 320-848-6055 E-mail: info@loftness.com Web Address: www.loftness.com

WARRANTY REGISTRATION

Dealer No.:						
Dealer	· Name:	Dealer Phone:				
Shippi	ng Address:					
Mailing	g Address:					
City:	Stat	te: Zip:				
Invoice	e No.: Part No.:					
Model	No.: Serial No.: _					
P	FOLLOWING INFORMATION MUST BE	FILLED IN COMPLETELY FOR WARRANTY:				
E A S	Customer: Last Name: First	t Middle Initial				
E	Mailing Address:					
P	City:	State: Zip:				
R	County:	Warranty (Delivered) Date				
N T	Phone:	DayYear				
	DEALER	PURCHASER				
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* Lof	ftness Warranty for this machine.					
<u>X</u>		<u>X</u>				
Deale	er's Signature	Purchaser's Signature				
Date		Date				
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Loftness Copy

Warranty

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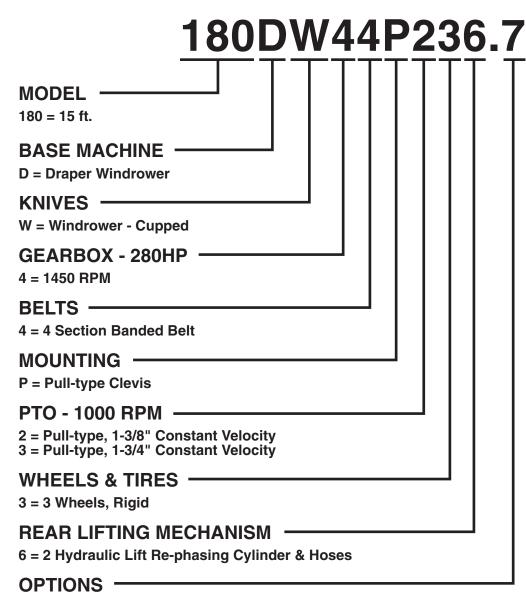
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Ordering Code

15' Draper Windrower Shredder (Example)

The ordering code will consist of one letter (base machine), one letter (knives type), one number (gearbox rpm), one number (belt style), one letter (mounting type), one number (PTO type), one number (rear wheel setup), one number (lifting mechanism), and one to three numbers/letters (options). An example for a Draper Windrower Shredder of this type would be as shown below.



7 = Hood Liner G = Green Paint



Introduction

Owner Information

Thank you for your decision to purchase a draper windrower shredder from Loftness. 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.

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, set-up, installation and maintenance procedures.

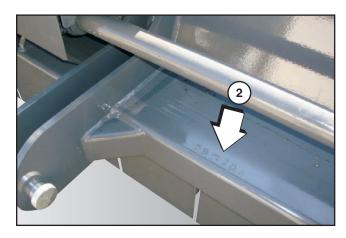
Continuous improvement and advancement of Loftness products may result in changes to your equipment that may not be reflected in this publication. Loftness reserves the right to make product improvements to the machine at any time. Although great care has been taken to ensure the accuracy of this publication, 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 so as not to void the warranty.

Serial Number Location





The arrows indicate the location of the serial number tag (1), and the location of the serial number stamped into the frame (2).

Always use your model and serial number when requesting information or when ordering parts.

Manual Storage



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

Draper Windrower Shredder Features

- 15' Cutting Width
- Pull-type Hitch
- 30 in. Side Discharge
- 1-3/8 in. or 1-3/4 in. 1000 RPM PTO
- 1,450 RPM Rotor
- 4-1/2 in. Wide Cupped Knives Hardened
- High-speed 33 in. Draper
- Flow Deflectors
- Adjustable Angle Crop Rear Door
- Tunnel Access Doors
- 4-Groove Banded Belts
- Spring-loaded Push-type Idler System
- Adjustable Wheel Spacing

Draper Windrower Shredder Options

Hood Liner

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 $\bigotimes X$ and m 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.

Owner's Responsibility

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.

It is **ABSOLUTELY MANDATORY** that all personnel read and follow all safety precautions before operating the machine and attachment.

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 5.

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.

- Never allow children to operate equipment. Never allow adults to operate equipment without 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 rotors, causing damage to the draper windrower or be thrown from the draper windrower striking other objects.
- Never attempt to make any adjustments while the engine is running or the key is in the "ON" position of the tractor. Before leaving the operator's position, disengage power to the draper windrower and remove ignition key.
- Disengage PTO, clutch and hydraulic valve and shift tractor into neutral or park before starting engine.

Safety Instructions for Operation and Maintenance

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



- Do not start, operate, or work on this machine until you have carefully read and thoroughly understand the contents of the operator's manual.
- 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.

- Unless instructed by decal or operator's manual, stop engine before leaving operator's position and wait for all movement to stop before attempting to adjust, lubricate, unclog or inspect. Exercise mandatory shut-down procedure. After the service has been performed, be sure to restore all guards, shields and covers to their original position.
- Always observe all safety rules shown on decals. Replace any damaged decals immediately. If the unit is repainted, be sure to replace all decals which apply to the machine.
- Become familiar with and know how to use all the safety devices and controls on the draper windrower before attempting to operate the unit. Know how to stop the unit before starting it.
- Before working under any hydraulically controlled implement, be sure to securely block implement in position.
- Keep children and spectators off and away from the machine while it is in operation.
- Never operate the draper windrower with a 540 RPM tractor.
- Never use a steel hammer when connecting or disconnecting a PTO shaft.

CAUTION:

- Repeated impact of the knives with frozen ground or hard objects can cause excessive wear and damage to tractor or draper windrower. Be sure to maintain recommended ground clearance as specified in this manual.
- Should excessive vibration occur, disengage the tractor PTO immediately and shut off tractor. Do not continue to operate the machine until the problem has been determined and corrected.
- Be sure the rotor has stopped completely before checking the knives.



- Keep all guards, shields and decals in place.
- Always repair or replace any front flipper shields that are damaged or missing.

Safety Instructions for Operation and Maintenance (Cont'd)

• Be sure PTO outer guard turns freely before operating machine.

- 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 PTO.
- Engage the PTO slowly at idle speed to prevent unnecessary stress to drive-line.
- Read and observe all warnings on the machine before attempting to operate the draper windrower. Do not attempt to operate this machine unless all factory-installed safety devices are in place.
- Never attempt to lubricate the draper windrower with the engine running. Always be sure to exercise the mandatory shut-down procedure.
- Be extremely careful not to bottom out or extend PTO shaft too far, damage to tractor or draper windrower could occur. Be careful to avoid lifting draper windrower too high, which results in excessive PTO shaft wear if machine is operated during turning maneuver. DO NOT USE PTO ADAPTERS OF ANY KIND.
- Do not operate the draper windrower without the universal joints locked to the tractor and gearbox shafts.
- Operating the draper windrower at less than rated RPM will reduce drum speed and cause improper cutting. In difficult conditions, reduce tractor speed by down-shifting gears while maintaining rated engine RPM. Severely difficult conditions may require a delay until conditions improve.

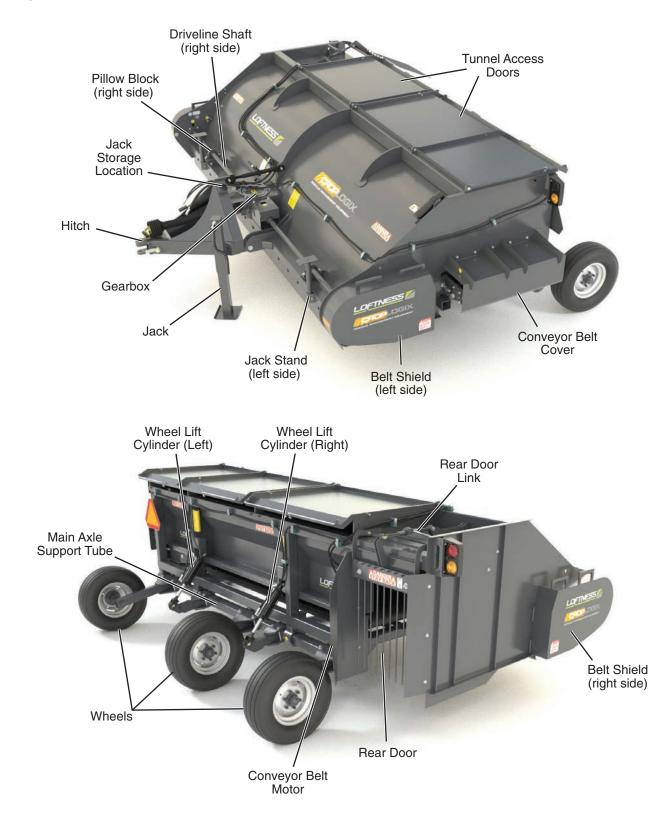
• Do not operate the draper windrower above the rated RPM.

DANGER:

- Escaping fluid under pressure can be invisible and can penetrate the skin. Do not use hands to search for leaks!
- Hydraulic lines or other components can be hot after operation! "DO NOT TOUCH"!
- Keep hands and feet out! Do not step on or over the machine while it is in operation!
- Rotating drive-line. Personal injury or death can result from entanglement.

Hydraulic Safety

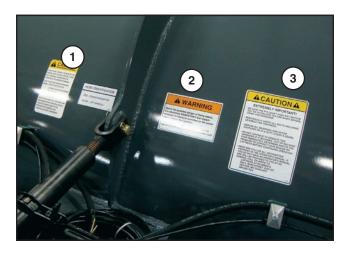
- The hydraulic system is under high pressure. Make sure all lines and fittings are tight and in good condition. These fluids escaping under high pressure can have sufficient force to penetrate skin and cause serious injury.
- Never check for leaks by using any part of your body to feel for escaping fluid.



Draper Windrower Shredder Identification

Safety Decal Locations

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



(1)

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.

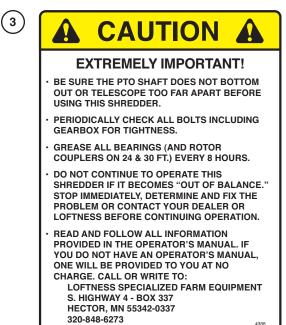
Part No. 4256

⁽²⁾ **A** WARNING

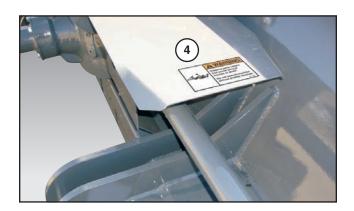
Due to the possible danger of flying debris, it is absolutely MANDATORY that impact-resistant shielding be provided on the power unit to protect the operator.

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

Part No. N17013



Part No. 4335





Part No. 4189

Safety Decal Locations (Cont'd)





Part No. N22763



Part No. 4334





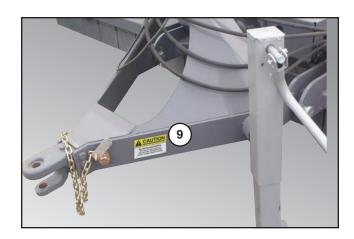




Part No. N18549

Safety Decal Locations (Cont'd)









Do Not Exceed 20 MPH. This machine uses implement tires and hubs. Transporting this machine at higher speeds is unsafe.

Part No. N23931

N23931

DANGER STAY BACK KEEP HANDS AND FEET AWAY FROM ROTATING KNIVES UNDER MACHINE. DO NOT LEAVE OPERATOR'S POSITION WHILE PTO IS ENGAGED AND TRACTOR IS RUNNING.

8

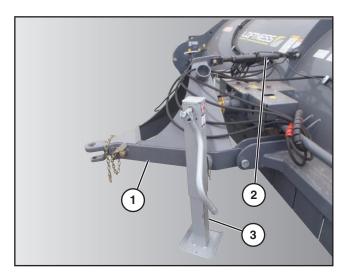
Part No. 4135



Equipment Set-up

The draper windrower is shipped partially assembled for shipping width. There are three tire assemblies, one hydraulic motor, one chain coupler, one chain coupler sprocket, and two hydraulic cylinders.

Hitch Installation

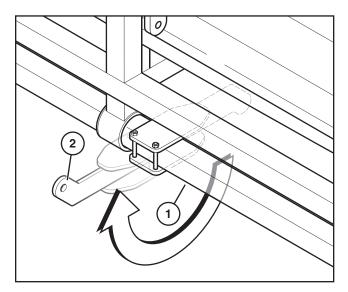


Install the hitch assembly (1), insert pins and secure with Lynch pins.

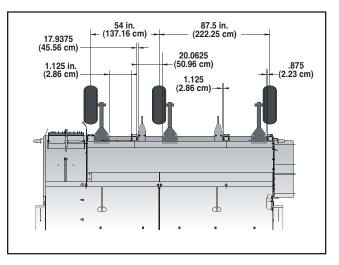
Connect the ratchet jack (2) from the frame to the hitch, insert pins and secure with clips.

Position the jack (3) in the jacking location.

Wheel Installation and Spacing



The main axle support tube (1) has been turned inside the machine to allow for shipping. This will need to be turned so the cylinder mounting ears (2) are turned outward.



Follow the figure above for wheel orientation and reference for wheel assembly locations.

Set-up Instructions

Wheel Installation and Spacing (Cont'd)



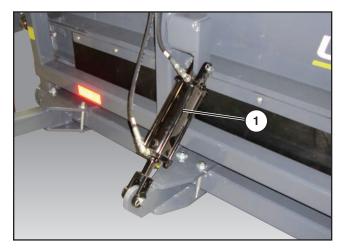
Install the three wheels to the main axle tube using the bolts that are supplied on the arm weldments.

Wheels should be placed to operate between the rows. The wheel closest to the material chute will need to be mounted as close as possible to the opening but will not line up exactly on the crop row center. It will be offset to the inside.

To obtain the best results from the draper windrower, wheel spacing should conform to crop row spacing. To adjust wheel spacing, raise draper windrower and install blocks under draper windrower end plates. Raise wheels with hydraulic cylinders. Loosen wheel strut clamping bolts and adjust wheels to desired spacing.

NOTE: The center plate of the draper windrower should ride in center between crop rows.

Wheel Hydraulic Cylinder Installation



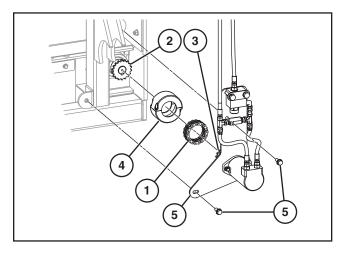
Connect the left side wheel lift cylinder (1) to the ear weldments on the frame as shown, securing with retaining pins and cotter pins.



Connect the right side wheel lift cylinder (2) to the ear weldments on the frame as shown, securing with retaining pins and cotter pins.

IMPORTANT: The wheel lift cylinders are rephasing cylinders and should never be interchanged.

Hydraulic Motor Installation



Install chain (1) onto couplers (2 & 3). Install chain cover housing (4).

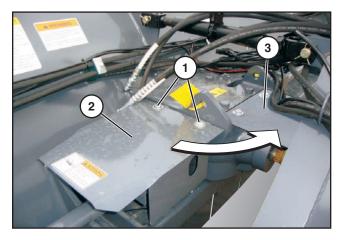
NOTE: Add approximately 10 pumps of grease to the chain cover housing at this time.

Secure plate with attached hydraulic motor (5) using supplied bolts (6).



NOTE: To make installation of the motor easier, remove cover plate (7) on the other side of the weldment as well for better access to set screws on the motor that need to be tightened after motor is installed on the coupler. Reattach cover plate when finished installing the motor.

PTO Shield



Remove the two bolts and washers (1), remove the PTO Shield (2) and reattach in the new position as shown (3).

Re-install bolts.

PTO Set-up

When connecting the PTO to both the draper windrower and tractor, it is the owner's/operator's responsibility to insure that the PTO length is correct and will not bottom out or become disengaged.

The PTO provided with each Loftness draper windrower will work on most tractors without modification.

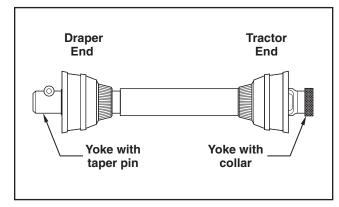
Variations in the PTO and hitch geometry on some tractors may make it necessary to adjust the length of the PTO.

Check PTO length (6" overlap min.). Lubricate CV before initial start-up and before connecting to tractor to allow movement of tractor yoke in all directions to help distribute grease through out the moving parts. Lubricate after every 8 hours of use. Tighten PTO clamp bolts (torque to 150 ft. lbs.), then recheck after 10 minutes of operation and again after 1 hour of operation.

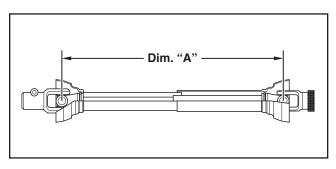
Set-up Instructions

PTO Sizing

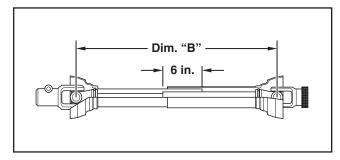
The following diagrams assist in sizing the PTO as outlined in "PTO Set-up" on page 15.



IMPORTANT: Before operating draper windrower, check to make sure the PTO will not bottom out or become disengaged.

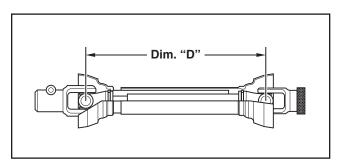


Extend the PTO until it is fully extended, but not completely separated. This will determine dimension "A".



Subtract 5" from dimension "A" to determine dimension "B". This will be your maximum operating length.

IMPORTANT: Never operate equipment with the PTO extended further than dimension "B".



Push PTO halves together, as far as possible, to determine dimension "C". Add 1" to this dimension for dimension "D" which will be the minimum operating length.

IMPORTANT: Never operate equipment with PTO collapsed to less than dimension "D".

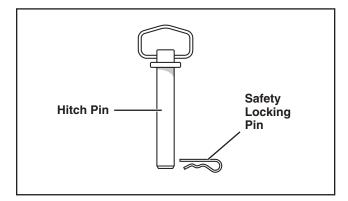
Operating Instructions

Getting Started

Pre-Start Checklist

- Grease the machine. See "Grease Point Location" on page 22 for grease point locations.
- Adjust air in tires to recommended pressure.
- Check oil level in gearbox (maintain level to the lower check plug hole on side of gearbox case).
- Drive Belt tension if belt needs adjustment, refer to "Belt Tension" on page 17 for instructions.
- Check all bolts, nuts and set screws for tightness.
- Review operator's manual.

Connecting the Draper Windrower

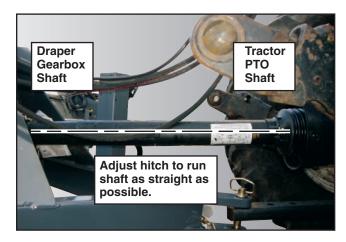


IMPORTANT: Use a safety-locking pin when connecting hitch pins.



DANGER: Failure to install a safety locking pin could result in loss of hitch pin, causing the draper windrower to become disconnected from the tractor during operation, or in transport, which could cause serious injury, or death, to those near by.

The draper windrower can be attached to any tractor with a PTO that conforms to ASAE-SAE standards, see "PTO Set-up" on page 15 for PTO specifications and setup. Do not use a draper windrower built for 1000 RPM with a 540 RPM tractor or serious damage to the draper windrower could occur.



Connect hitch to draw bar. Adjust hitch to permit PTO shaft to run as straight as possible.

Jack Stands



IMPORTANT: During operation and transport, the jack stands should be locked in their highest position.

Belt Tension

Check the rotor drive belts to ensure they have 1/2" maximum deflection at the midpoint between the pulleys. If adjustments need to be made, see "Belt Adjustment" on page 26 for instructions.

IMPORTANT: To avoid damage or excessive wear, always engage or disengage PTO with engine at idle speed.

Operating Speed

Various shredding conditions require different ground speeds. Under most conditions, the tractor can be driven between 3 and 7 MPH by using lower rpm's and shifting to a higher gear to maintain the needed ground speed without causing undue wear on the draper windrower.

Maintaining Rotor Balance

The rotors of the draper windrower are factory balanced and must remain in balance during the life of the machine. Should any knives on the machine need replacing, be sure to also replace the knives directly opposite to avoid vibration and maintain the rotor balance. See "Knife Replacement" on page 29 for instructions on replacing the knives.

If a knife is not available, take the opposite one off until two new knife sets can be replaced.



CAUTION: Should excessive vibration occur, disengage the tractor PTO immediately and shut off the tractor. Do not continue operation until the problem has been determined and corrected.



CAUTION: Be sure the rotors have stopped completely before checking the knives.

The knives will pivot on the D-ring or on knife mounting bolt to avoid damage when striking stones or other obstructions. They will swing back to clear obstacles, and they will return to working position automatically.



CAUTION: Repeated impact to the knives from frozen ground or other hard objects can cause excessive wear and damage to tractor or draper windrower. Repeated impact to hard objects can cause the metal ring constraining knives to rotor to fail and release the knife from the rotor. Be sure to maintain recommended ground clearance as specified in this manual.

Cutting Height Adjustment

The recommended minimum cutting height is 5-6". Continually cutting below this height increases the likelihood that ground scalping could occur. Frequent scalping greatly reduces draper windrower component lifetimes. Loftness considers this pattern to be misuse, and subsequently will not be covered under warranty.

The cutting height is adjusted and controlled with the rear hydraulic cylinders. Customer may need to supply cylinder stops to aid in obtaining the recommended cutting height. Maintaining the proper cutting height will provide a uniform crop shredding. It is also easier to begin the new round by eliminating the need to adjust the cutting height every time. The most important advantage is that it eliminates repositioning.

Another important consideration is the PTO shaft angle. For the longest PTO shaft life and minimum vibration, the tractor PTO shaft and the stub shaft on the draper windrower need to be parallel after adjustment into the operating position. It might be necessary to remove the PTO shaft from the draper windrower when adjusting the cutting height for a better viewpoint to get the shaft angles similar. See "Connecting the Draper Windrower" on page 17, and "PTO Set-up" on page 15 for more information on installing and adjusting the PTO shaft.

Turning

IMPORTANT: The constant velocity PTO shaft can be turned with PTO engaged.

IMPORTANT: To avoid damage or excessive wear, always engage or disengage PTO with engine at idle speed.

CAUTION: Be extremely careful not to bottom out or extend PTO shaft too far, damage to tractor or draper windrower could occur. Be careful to avoid lifting draper windrower too high, which results in excessive PTO shaft wear if machine is operated during turning maneuver. Do NOT use PTO adapters of any kind.

CAUT out or tracto carefu high, wear

Operating Instructions

Rear Door Angle Adjustment



Adjustments can be made to control the windrow as it comes out of the machine. Moving the link raises or lowers the fingers on the rear door to control the material.

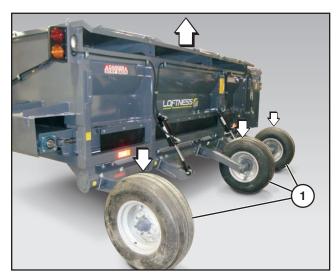
Raise the fingers for wet, heavy material.

Lower the fingers for dry, light material.



CAUTION: Make sure fingers on rear door are lowered and do not extend beyond the wheels when transporting.

Transporting



When transporting the draper windrower, wheels (1) must be lowered so the draper windrower is at its highest position.



Remove each yellow cylinder stops from its storage position above the lift cylinder. Install a cylinder lock (2) to each of the wheel lift cylinders. Secure with pin and retaining clip.

NOTE: Only right side shown cylinder shown.

IMPORTANT: Failure to install the cylinder locks when transporting the draper windrower could result in major damage to the cylinder and the draper windrower.



CAUTION: Verify warning lights are properly operating before transporting the draper windrower on public roads. Make sure "Slow Moving Vehicle" decal is visible.

CAUTION: Verify the jack has been returned to its storage position and the jack stands are raised and locked in their highest position before transport.

Whenever transporting on public roads, verify taillights are operating correctly.



CAUTION: *Do not exceed 20 mph when transporting the draper windrower.*

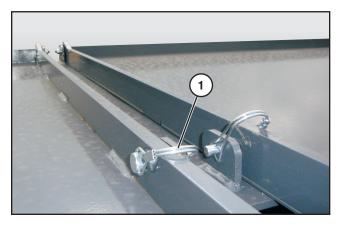
Operating Instructions

Tunnel Access Doors

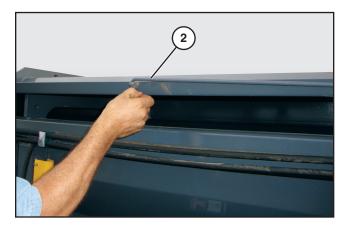
There are two access doors on top of the machine that can be opened to remove any material that may become clogged in the machine, or to perform any maintenance.



DANGER: Always turn the tractor off when working inside the draper windrower.



Remove the locking pins (1) that are securing door to draper windrower frame. There is a locking pin on the ends of each door.



Remove retaining pin at the end of both supporting rods (2) for each door.



Lift door to open and insert the end of each supporting rod into the tubes welded to the frame (3).

Secure with the retaining pins.



CAUTION: The access doors are very heavy. Use two people to lift door open.

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 draper windrower after each use.

Maintenance of any type on equipment is dangerous when the machine is running.

DANGER: Always shut-down all equipment prior to cleaning, adjusting, lubricating or performing service of any kind. Review and become familiar with the "Mandatory Shut-Down Procedure" before attempting any service work.

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.

Maintenance Schedule

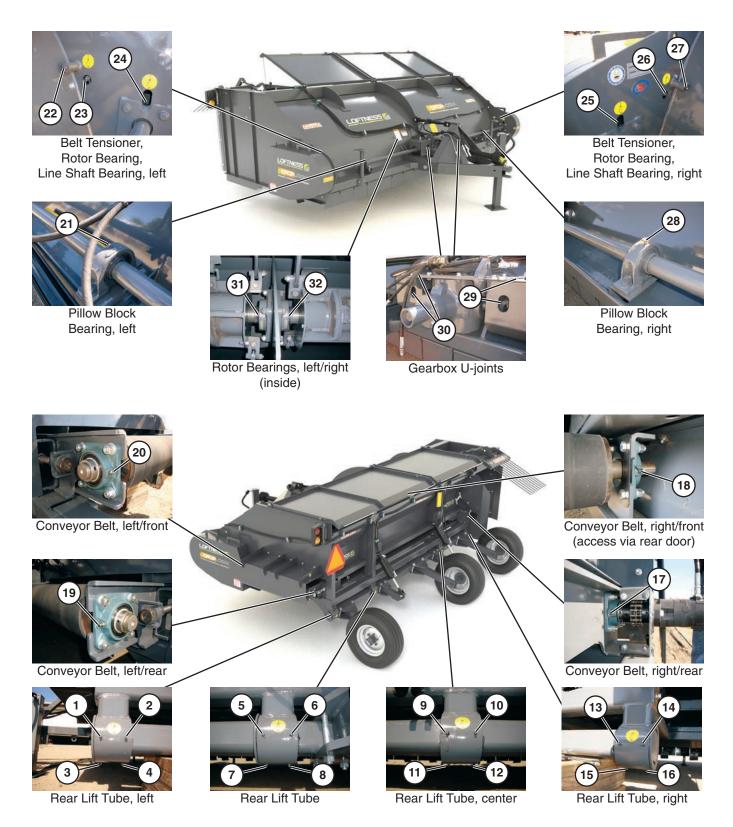
н		SERVICE REQUIRED					
H O U R S	SERVICE POINTS	C H E C K	C L E A N	C H A N G E	G R E A S E	A D J U S T	0 L
	Machine		Х				
	Loose Bolts					Х	
	Hoses and Wiring	Х					
	Oil Leaks	Х					
Every	Rotor Bearings				Х		
8	Knives	Х					
	Belt Tensioner				Х		
	PTO CV Shaft	Х			Х		
	Draper Belt Tension and Tracking	х					
	Telescoping PTO Tube	Х			Х		
Every 25	Line Shaft U-Joints	Х			Х		
	Line Shaft Bearings	Х			Х		
	PTO Overrunning Clutch	х			х		
Every	Wheel Lift Tubes	Х			Х		
50	Drive Belt Tension	Х					
	Drive Belt	Х					
	Safety Labels	Х					
Every	Wheel Bearings	Х			Х		
100	Gearbox (w/oil change)	Х					Х

Lubrication

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.

The operation and component lifetimes of this machine are very dependent on regular and proper lubrication. The frequency of lubrication recommended is based on normal conditions. Severe or unusual conditions may determine actual service requirements.

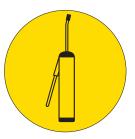
Grease Point Location



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: Grease points on the machine are indicated on the machine by the decal shown above.



WARNING: Do not lubricate parts while the machine is running.

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

See "Draper Windrower Shredder Identification" on page 8 for component location and identification.

Wheel Lift Tube Grease Fittings

Location: (1 - 16) - Four fittings in each of the four rear lift tubes.

Interval: Every 50 hours of operation.

Conveyor Belt Grease Fittings

- Location: (17, 18, 19, 20) Located on the ends of the conveyor belt, both front and back sides.
- **NOTE:** Remove cover by chain coupler to access grease fitting for grease point #17.
 - Interval: Every 8 hours of operation.

Gearbox U-joint Grease Fittings

Location: (29, 30) - Located on the U-joints on each side of the gearbox. Access via holes on top or side of gearbox/line shaft shields.

Interval: Every 25 hours of operation.

• Rotor Bearing Grease Fittings

Location: (23, 26) - Located on the left and right ends of the draper windrower, behind the belt shields. Lubricate the fitting through the opening in the frame.
(31, 32) - Two fittings on the rotor bearings located between the two rotors. Access the fittings from underneath the draper

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

windrower near the hitch.

Interval: Every 8 hours of operation.

• Belt Tensioner Grease Fittings

- Location: (22, 27) Located on the left and right ends of the draper windrower, behind the belt shields. Fitting located on end of protruding shaft.
- **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 8 hours of operation.

Line Shaft Grease Fittings

Location: (24, 25) - Located on the left and right ends of the draper windrower, behind the belt shields. Lubricate the fitting through the opening in the frame.

Interval: Every 8 hours of operation.

Pillow Block Grease Fittings

- Location: (21, 28) Located on line shaft between the gearbox and the end plates.
- Interval: Every 25 hours of operation.

Grease Points Location (Cont'd)

Standard PTO CV Shaft Grease Fittings

Location: (not shown) - Three U-joints and two additional fittings located under the bell housing.

Interval: Every 8 hours of operation.

Telescoping PTO Tube Grease Fittings

Location: (not shown) - One located by lining up the hole in the PTO guard with grease zerk.

Interval: Every 25 hours of operation.

PTO Overrunning Clutch Grease Fittings

Location: (not shown) - Fitting located near U-joint yoke.

Interval: Every 50 hours of operation.

Other Lubrications Points

• Wheel Bearings

Location: (not shown) - All 3 wheel bearings.

NOTE: Grease and re-pack.

Interval: Every 100 hours of operation.

Gearbox Oil

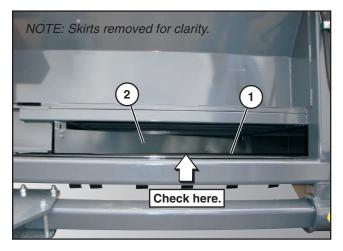
Location: (not shown) - Behind hitch assembly.

NOTE: Change oil with #90 wt. Maintain oil level up to the lower plug hole located on side of the gearbox case.

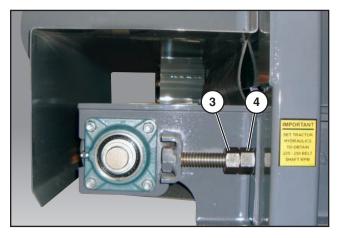
Interval: Every 100 hours of operation.

Maintenance

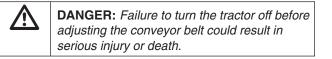
Conveyor Belt Adjustment



The conveyor belt (1) should operate without being overtight. The belt should travel as close to the middle of the conveyor scraper (2) as possible.



To adjust the conveyor belt, turn the tractor off.



Loosen the nut (3) on the threaded shaft.

Rotate nut (4) on the threaded shaft to either tighten or loosen belt.

Repeat on opposite side of the belt, adjusting both sides evenly.



DANGER: Keep hands, feet, and clothing clear of belts and pulleys while tractor is running.

Start tractor and slowly turn the belt to check for tracking.

If belt is not tracking, adjust one side only to make belt track in the center, following the same procedure above.

Setting the Conveyor Belt Speed



NOTE: The mechanical tachometer shown above is not supplied with the draper windrower.

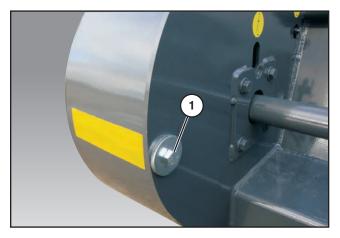
Use a tachometer to measure the belt RPM.

The conveyor belt should operate from a speed of 200 feet/minute to 400 feet/minute. This adjustment is done by using the tractor controls to control the amount of oil flowing per minute. The belt speed should be set at the lowest setting to move material to the discharge end. This will extend belt life.

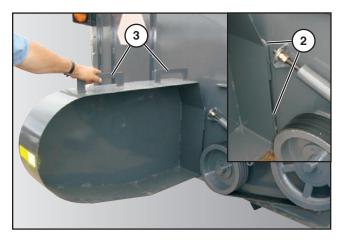
NOTE: 200 RPM will equal 300 feet/minute.

Maintenance

Belt Shields



To open the belt shields, remove bolt (1) and washer securing the belt shield to the frame.



Swing belt shield open, pivoting on hinge pins (2). This will expose the belt drive components.

NOTE: To completely detach the belt shield from the draper windrower, remove the two hinge pins (2) and lift off of the machine using the handles (3).

Belt Adjustment

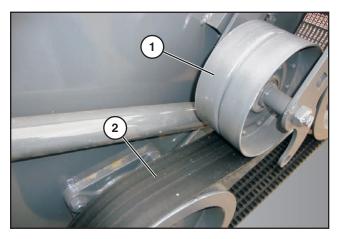
NOTE: Refer to "4-Band Drive" on page 34 for parts breakdown and assembly of belt drive components.

Turn off all power to the draper windrower.

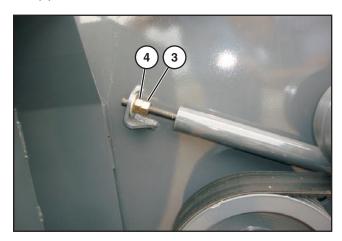


DANGER: Failure to turn off power to the draper windrower before adjusting the belt drive could result in serious injury or death.

Remove belt shield. See "Belt Shields" on page 26 for instructions on removing the belt shields.



Check belt idler (1) position to insure it is centered on the belt (2).



Loosen the jam nut (3).

Turn the hex nut (4) next to the adjustment bracket clockwise until the washer on the spring base is recessed into the tightener tube. Tighten jam nut (3) to lock.

Rotate the pulleys manually in the direction of normal machine rotation to check alignment of idler on the belt. Adjust if necessary.

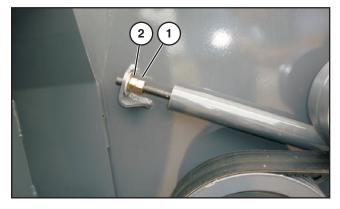
Belt Replacement

NOTE: Refer to "4-Band Drive" on page 34 for parts breakdown and assembly of belt drive components.

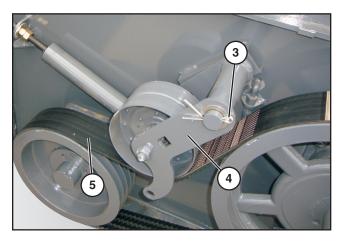
Turn off all power to the draper windrower.

DANGER: Failure to turn off power to the draper windrower before replacing the belt could result in serious injury or death.

Remove belt shield. See "Belt Shields" on page 26 for instructions on removing the belt shields.



Loosen jam nuts (1 & 2) on the belt tightener which will release the tension from the belt.



Remove the pin (3) connecting the idler arm (4) on the tightener bracket to the belt tightener, then remove the belt (5).

Replace with new belt.

Reinsert idler arm and pin. Tighten jam nuts.

Sheave and Pulley Removal

NOTE: Refer to "4-Band Drive" on page 34 for parts breakdown and assembly of belt drive components.

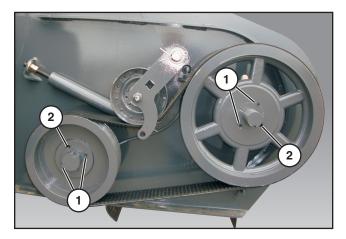
Turn off all power to the draper windrower.



DANGER: Failure to turn off power to the draper windrower before removing the pulleys could result in serious injury or death.

Remove belt shield. See "Belt Shields" on page 26 for instructions on removing the belt shields.

Remove the idler arm and drive belt, following the instructions in "Belt Replacement" on page 27.



Remove the taper lock bushing set screws (1).

Insert set screw into threaded hole (2).

Tighten screw until bushing grip is released. If excessively tight, lightly hammer face of pulley using drift or sleeve.

IMPORTANT: Never hit pulley directly with hammer.



CAUTION: Excessive or uneven pressure on set screws may damage the bushing, making removal difficult or possibly damaging the sheave.



CAUTION: Excessive screw torque may cause damage to the bushing or sheave. Recommended torque is 430 in/lbs.

Pulley Assembly

Clean shaft, bore of bushing, outside of bushing and hub bore of all oil, paint and dirt. File away any burrs

Insert bushing in hub. Match the hole pattern, not threaded holes (each complete hole will be threaded on one side only).

Apply a thread-locking compound to setscrews and thread into the two opposing holes.

Position assembly on shaft and alternately torque set screws to 35 ft. lbs.

To increase gripping force, hammer face of bushing using drift or sleeve.

IMPORTANT: Never hit bushing directly with hammer.

Re-torque screws after hammering.

Recheck screw torque after initial run-in, and periodically thereafter. If loose, hammer face of bushing and re-torque screws again and recheck screw torque.

Check alignment of the pulleys. Repeat pulley removal and assembly procedures if necessary.

Install belt. See "Belt Replacement" on page 27 for reference.

Rotor Removal

This service section is written as if the draper windrower is upside down. If procedure is done with machine in operating position, movable jacks will be needed to support and move the rotors. The first rotor removed must be the last rotor installed. The center bearing with the bolts started through it, must be on the last rotor removed (first rotor installed).

NOTE: Refer to "Rotors" on page 40 for parts breakdown and assembly of rotor components.

Turn off all power to the draper windrower.



DANGER: Failure to turn off power to the draper windrower before removing the rotors could result in serious injury or death.

- 1. Apply an appropriate supporting mechanism to both rotors. (Chains and hoist)
- 2. Loosen the set screws on bearing lock collars.

- 3. Loosen and remove the outer bearing from the shaft of the first rotor to be removed.
- 4. Remove the four nuts from the bolts holding the two center bearings to the center plate. (The rotor on the side of the removed nuts is the first to be removed from the machine).
- 5. Slide the rotor outward away from center plate. (This step might require the removal of the stripper bolts located on the outside balancing ring. Make note of which hole the stripper bolts are removed from and replace in the same holes to insure proper balance.
- 6. Slide the four inner bearing bolts outward until the center bearing on the first rotor is free. Be careful not to slide them too far out or the second rotor might fall free prematurely.
- 7. Remove rotor from the machine by lifting inner end of rotor first to clear center plate and then sliding outer shaft in through end plate.
- 8. To remove inner rotor bearing, loosen and remove flat head cap screw, star washer and retaining washer. Slide bearing off shaft. Remove collar.

Repeat steps 3 through 8 for the opposite rotor.

Rotor Assembly

- 1. Slide bearing spacer on shorter shaft of the rotor. (Shaft with 1/2 in. [1.27 cm] tapped hole in center).
- 2. Install roll pin into end of shaft.
- 3. Insert the four bolts through the bearing housing and then slide it completely on the shaft.
- 4. Apply thread-locking compound to flat head screw. Slide through washers and install into threaded hole in shaft. Torque to 75 ft lbs.
- **NOTE:** To determine left and right rotor, install so that the bolt head on the knife U-clamp faces the front of the machine.
- 5. Insert four outer bearing bolts into end plate with the heads of the bolts inside the rotor cavity (nuts will be inside belt housing).
- 6. Install rotor by inserting the outer end (long shaft) into the bearing hole of the end plate.

Rotor Assembly (Cont'd)

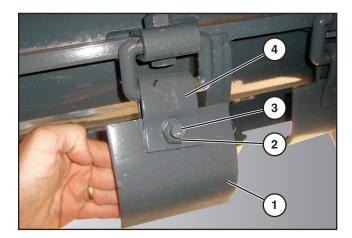
- Align the four bearing bolts with the center plate holes and insert the bolts so that they protrude about 1/4 in. (.635 cm) through opposite side of plate. To allow for easier future greasing, point the grease fitting toward the rear of the machine.
- 8. Repeat steps 1-5 (without the four bolts through the bearing) on the second rotor.
- 9. Align the holes in bearing and push center bolts completely through both bearings and center plate. Install new locking nuts but do not torque.
- 10. Install outer bearings onto shafts (grease fitting to point up when machine is in operating position) and tighten new lock nuts to 170 ft. lbs.
- 11. While supporting the rotor at the center plate, tighten the bearing bolts to 170 ft lbs.
- 12. Apply a thread locking compound and tighten the set screws.
- 13. Replace stripper bolts directly across from each other to maintain proper rotor balance.

Knife Replacement

Turn off all power to the draper windrower.



DANGER: Failure to turn off power to the draper windrower before replacing knives could result in serious injury or death.



To replace a knife (1), remove lock nut (2) and bolt (3). Remove knife from u-bar (4).

IMPORTANT: The rotors of the draper windrower are factory balanced and must remain in balance during the life of the machine. Should any knives on the machine need replacing, be sure to also replace the knives directly opposite to avoid vibration and maintain the rotor balance. If a knife is not available, take the opposite one off until two new knife sets can be replaced.

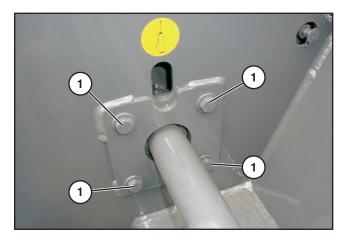
Maintenance

Gearbox Repair

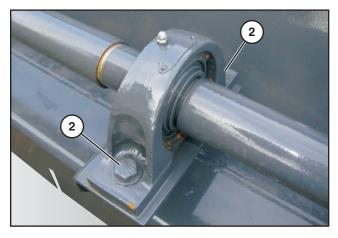
Repairs to the gearbox by the customer will be limited to the replacing of the cross or pinion shaft seals. See "Gearbox, 1450 RPM Bondioli (N13950)" on page 44 for parts breakdown. These seals can be removed and replaced by using a screwdriver or similar instrument without opening the gearbox. If the machine is still under warranty, do not attempt to repair the gearbox as unauthorized repairs will void the warranty. All warranty repairs should be done through your Authorized Loftness Dealer. Contact your dealer or the Loftness factory for specific details concerning the gearbox warranty.

Gearbox Removal

Remove the drive belt. Follow instructions in "Belt Replacement" on page 27 up until the point where the drive belt is removed.



Remove the bolts (1) with washers securing the line-shaft bearing located behind the large pulley.



Remove the bolts (2) securing the pillow block bearing supporting the line-shaft.



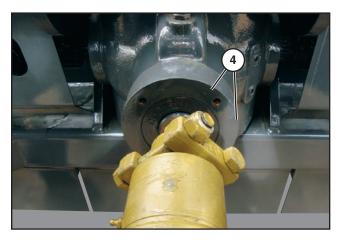
Remove driveline shield (3).

Loosen and remove the clamp bolts securing the U-joint to the gearbox shaft.

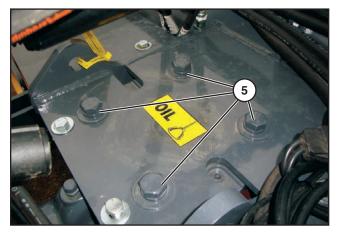
Slide the line-shaft outward until the U-joint is free of the shaft.

Repeat steps to remove opposite side line-shaft.

Gearbox Removal (Cont'd)



Remove PTO shaft by loosening and removing the clamp bolts (4). Then slide it off the shaft.



Remove the four bolts (5) with lock washers and washers securing the gearbox to the frame.

Storage

End of the Season

- Clean entire draper windrower thoroughly.
- Paint all parts that are worn.
- Lubricate all parts of the machine
- Block up the frame of the draper windrower, DO NOT deflate the tires.
- Store draper windrower in a dry area.
- Review your operator's manual.
- Loosen draper windrower belt.

Beginning of the Season

- Review your operator's manual.
- Check air pressure in the tires.
- Drain and refill gearbox to proper level. Gearbox should be filled to the lower plug.
- Lubricate all parts of the machine.
- Tighten all loose bolts, nuts and set screws.
- Tighten draper windrower belt.
- Check and replace all worn knives.
- Should any knives need replacing, remember to replace the worn knives and those directly across from the those being replaced to avoid rotor imbalance and subsequent vibration.

Troubleshooting

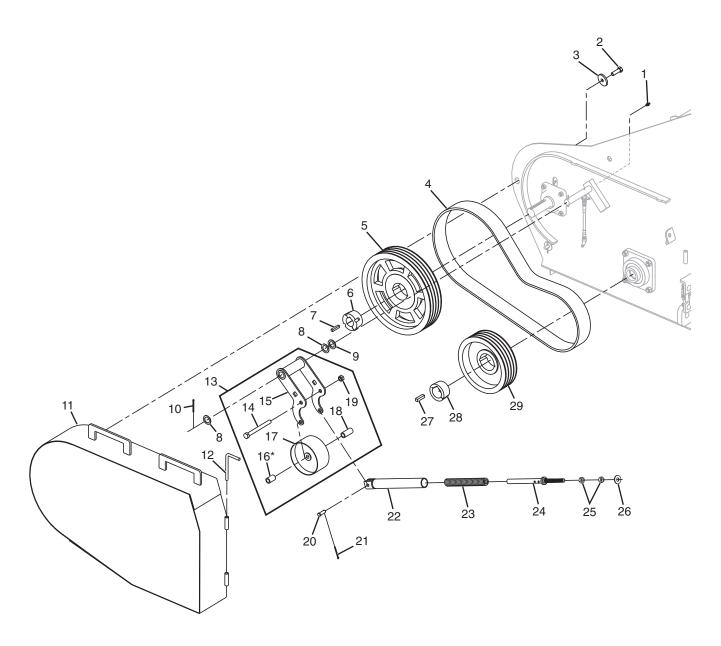
To assist with maintenance and repair, the following list of common problems and corrections is provided.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Excessive Vibration	Broken or missing knives.	Replace broken/missing knives plus the worn knives on the opposite side of the rotor to maintain a balanced rotor.
	Mud and/or debris wrapped around the drum or knives.	Clean & remove all debris/mud.
	Bearing malfunction.	Check rotor & drive-line bearings, replace faulty bearings.
	Rotor damage.	Inspect rotor for physical damage. If damaged, remove and return to factory for proper repair.
Rotor Does Not Turn	Knife has become wedged.	Dislodge wedged knife between the end plate and the balancing ring.
	Gearbox malfunction.	Disconnect PTO and manually rotate the gearbox, if unable to rotate, remove gearbox and contact dealer for servicing.



PARTS IDENTIFICATION

4-Band Drive



NOTE: Quantities shown are for both the right and left sides of the draper windrower.

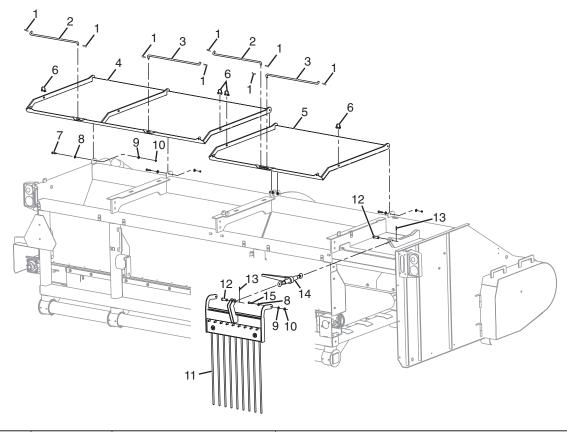
* Item 16 (spacer) is always on the outside of the pulley, towards the belt shield.

Left side shown.

4-Band Drive

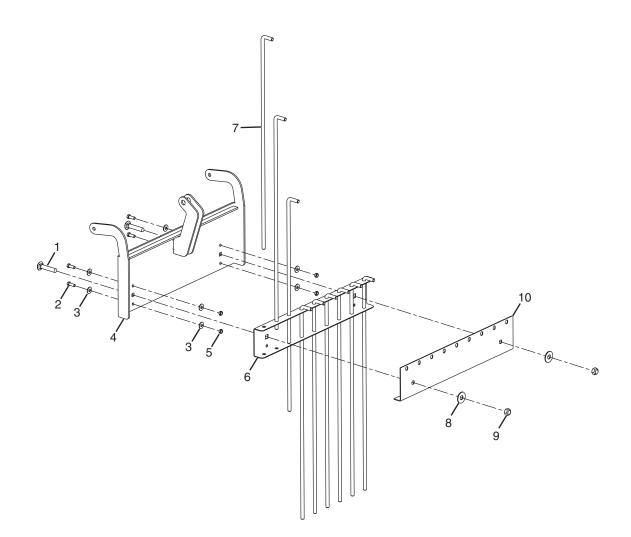
#	QTY.	PART #	DESCRIPTION
1	2	4105	GREASE-ZERK, 1/4" SCREW-IN
2	2	4013	BOLT, 1/2" X 1-1/2" GRADE 5
3	2	4074	WASHER, 2" OD X 1/2" ID X 1/4"
4	2	N10507	BELT, 4B X 87" BOND. SHRD.
5	2	8140	PULLEY, 4B X 16" TAPERLOCK
6	2	8127	BUSHING, 1-3/4 KW TAPERLOCK
7	4	7121-02	KEY, 3/8" X 1-3/4"
8	4	4491	WASHER, 1-1/8" ID X 1-3/4" OD X 18 GA
9	2	4470	WASHER, 1-1/8" ID X 1-3/4" OD X 10 GA
10	2	4329	PIN, COTTER 7/32" X 2-1/2"
11	1	N32870	SHIELD, WINDROW DRAPER LEFT (Shown)
	1	N32880	SHIELD, WINDROW DRAPER RIGHT
12	4	N23287	PIN, WIND SHRD FLAT BELT SHIELD
13	1	N18090	TIGHTENER, BELT RIGHT 4B
	1	N18056	TIGHTENER, BELT LEFT 4B (Shown)
14	2	4457	BOLT, 5/8" X 6-1/2" GRADE 5
15	2	N18057	BRACKET, BELT TIGHTENER
16	2	N18088	PIPE, BELT TIGHTENER SPACER (SHORT)
17	2	N10508	PULLEY, IDLER 6-1/2" O.D. w/5/8" BORE
18	2	N18089	PIPE, BELT TIGHTENER SPACER (LONG)
19	2	4055	NUT, LOCK 5/8"
20	2	4392	PIN, 1/2" X 1-1/2"
21	2	4089	CLIP, HAIRPIN .093" X 1-5/8"
22	2	N18517	TUBE, BELT TIGHTENER
23	2	N32514	SPRING, BELT TIGHTENER
24	2	7525	ROD, BELT TIGHTENER
25	4	4438	NUT, STANDARD 5/8" GRADE 8
26	2	4069	WASHER, FLAT 5/8"
27	2	N27290	KEY, 1/2" X 1-3/4" EXTRA HARD
28	2	8165	BUSHING, 2-3/16" TPL.DOD.117715
29	2	8139	SHEAVE, 4B X 11" TAPERLOCK

Covers and Rear Door



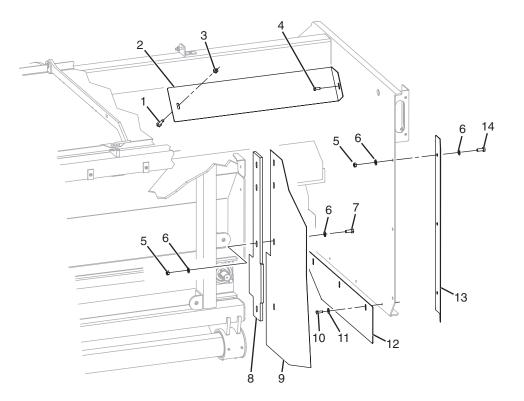
#	QTY.	PART #	DESCRIPTION
1	8	4089	CLIP, HAIRPIN .093 X 1-5/8"
2	2	N32655	ROD, PROP LEFT SWING
3	2	N32654	ROD, PROP RIGHT SWING
4	1	N32645	HOOD, CARRIAGE ASM L15
5	1	N32647	HOOD, CARRIAGE ASM R15
6	4	N27991	PIN, 3/8" X 1-3/8" RETAINER
7	5	N36690	BOLT, SHOULDER 1/2" X 3/4"
8	7	4068	WASHER, 1/2" SAE FLAT
9	7	4064	WASHER, FLAT 3/8"
10	7	4052	NUT, LOCK 3/8"
11	1	N32465	DOOR, DRAPER REAR ROD
12	2	4358	PIN, 3/4" X 2"
13	2	4092	PIN COTTER 5/32" X 2"
14	1	N25939	BINDER, RATCHET 5400 LB LOAD
15	2	N29742	BOLT, SHOULDER 1/2" X 1"

Rear Door (N32465)



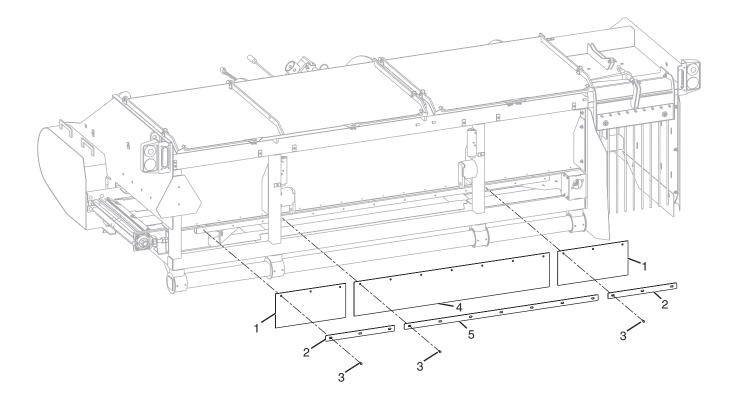
#	QTY.	PART #	DESCRIPTION
1	2	N32023	BOLT, CARRIAGE 5/8" X 2"
2	4	4195	BOLT, 3/8" X 1" GRADE 5
3	8	4064	WASHER, FLAT 3/8"
4	1	N32967	GATE, DRAPER WELDMENT
5	4	4052	NUT, LOCK 3/8"
6	1	N32467	MOUNT, DRAPER REAR DOOR ROD
7	9	N19502	PIN, WIND SHRD TAIL
8	2	4069	WASHER, FLAT 5/8"
9	2	4055	NUT, LOCK 5/8" TOP
10	1	N32468	CAP, DRAPER REAR DOOR ROD

Deflectors and Guards, Rear Door



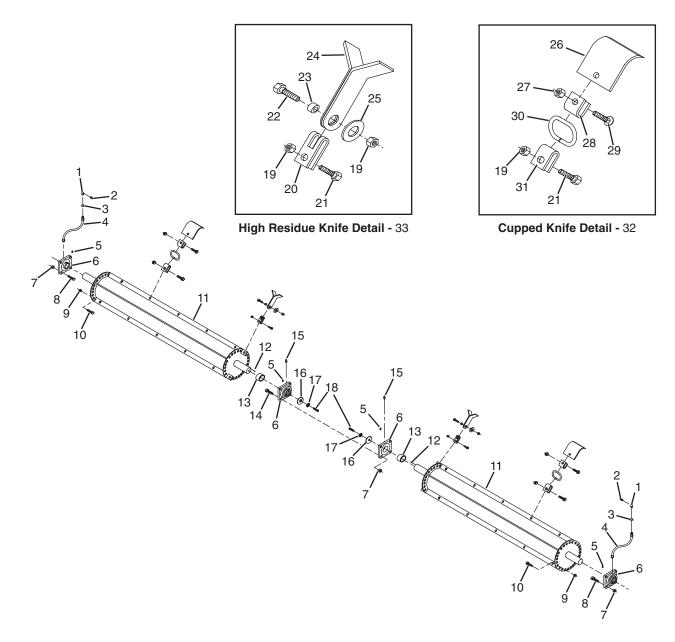
#	QTY.	PART #	DESCRIPTION
1	1	4034	BOLT, CARRIAGE 3/8" X 1"
2	1	N36639	PLATE, DEFLECTOR SHORT
3	1	4979	NUT, LOCK 3/8" SER FLANGE
4	2	N26743	BOLT, 3/8" X 1" SER FLG
5	6	4054	NUT, LOCK 1/2" TOP
6	13	4068	WASHER, 1/2" SAE FLAT
7	4	4014	BOLT, 1/2" X 1-3/4" GRADE 5
8	2	N32446	PLATE, END SIDE
9	1	N32778	GUARD, FORM ATTACHMENT
10	3	4195	BOLT, 3/8" X 1" GRADE 5
11	3	4064	WASHER, FLAT 3/8"
12	1	N32779	GUARD, BOTTOM ATTACHMENT
13	1	N32472	BAR, ANGLE DEFLECTOR
14	3	4012	BOLT, 1/2" X 1-1/4" GRADE 5

Skirting



#	QTY.	PART #	DESCRIPTION
1	2	N35019	SKIRTING, 25" CONV 15 DRAPER
2	2	N35021	STRIP, 25" SKIRT MOUNT
3	13	N36497	BOLT, 3/8" X 3/4" SER FLG
4	1	N35020	SKIRTING, 69.5" CONV 15 DRAPER
5	1	N35022	STRIP, 69.5" SKIRT MOUNT

Rotors



To order a complete right side rotor with knives (Items 11, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31) use part number N35017. To order a complete left side rotor with knives (Items 11, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31) use part number N35011.

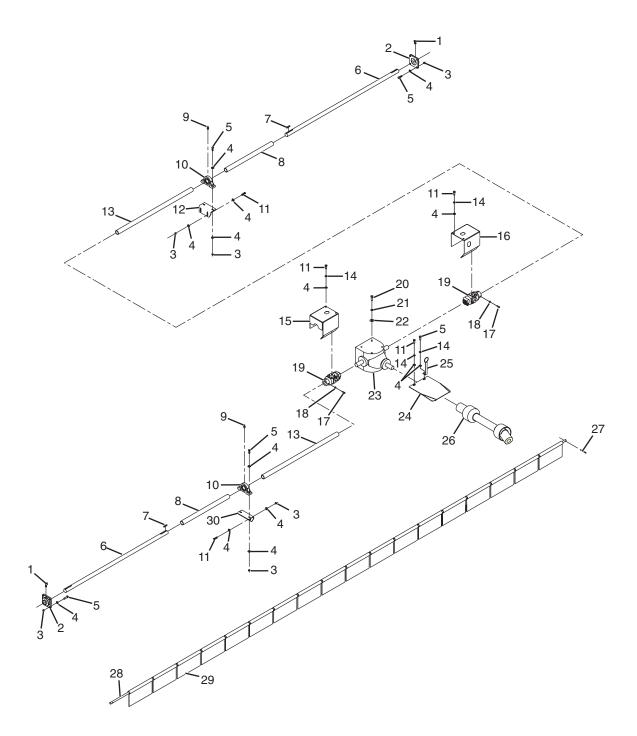
NOTE: See page 69 in Appendix for rotor knife pattern.

Rotors

NOTE: Quantities shown below for Items 19 through 33 are for one rotor.

#	QTY.	PART #	DESCRIPTION
1	2	4472	ELBOW, 1/8" 90 DEG.STREET
2	2	N17007	GREASEZERK, 1/8" NPT
3	2	4304-10	BULKHEAD, FITTING-GREASE HOSE
4	2	4304	HOSE, 15" GREASE W/FITTINGS
5	8	4261	SCREW, 5/16" UNF X 3/8" SET
6	4	N16969	BEARING, 2-3/16" 4-BOLT FLG SEALMASTER
7	12	4057	NUT, 5/8" FINE THREAD TOP LOCK
8	8	4042	BOLT, 5/8" X 2"FINE THRD.GR.8
9	2	4054	NUT, LOCK 1/2" TOP
10	2	4295	BOLT, 1/2" X 2" GR 5 FULL THREAD
11	2	N35012	ROTOR, 15' DRAPER 2-3/16 W/O KNIVES
12	2	4085	PIN, ROLL 3/16" X 3/4"
13	2	N18075	SPACER, SHRD ROTOR 2-3/16" BRNG
14	4	4047	BOLT, 5/8" X 3-1/4" GRD 8 FINE
15	2	4105	GREASE-ZERK, 1/4" SCREW-IN
16	2	4075	WASHER, 2-5/8" OD BEARING RETAINING
17	2	4076	WASHER, 1/2" EXT CNTSK LOCK
18	2	4468	SCREW, 1/2"-20UNF X 1-1/4" FN TD FL HD CAP
19	25	4055	NUT, 5/8" LOCK
20	2	8034	U-BAR, SLOTTED
21	23	4043	BOLT, 5/8" X 2" GR 8
22	2	4045	BOLT, 5/8" X 2-3/4" GR 8
23	2	9073	BUSHING, KNIFE
24	4	8136	KNIFE, 70° HIGH RESIDUE
25	2	4488	WASHER, .894" I.D. X 1.750" O.D.
26	21	8022	KNIFE, HARD-SURFACED CUPPED
27	21	4054	NUT, LOCK 1/2" TOP
28	21	8035	CLIP, CUPPED KNIFE
29	21	4039	BOLT, CARRIAGE 1/2" X 1-1/2" GR5
30	21	N24282	SQUARE-RING, CUPPED KNIFE
31	21	8033	U-BAR, KNIFE
32	21	8022-10	KIT, CUPPED KNIFE COMPLETE ASSEMBLY
33	2	8136-10	SET, 70° HIGH RESIDUE KNIFE

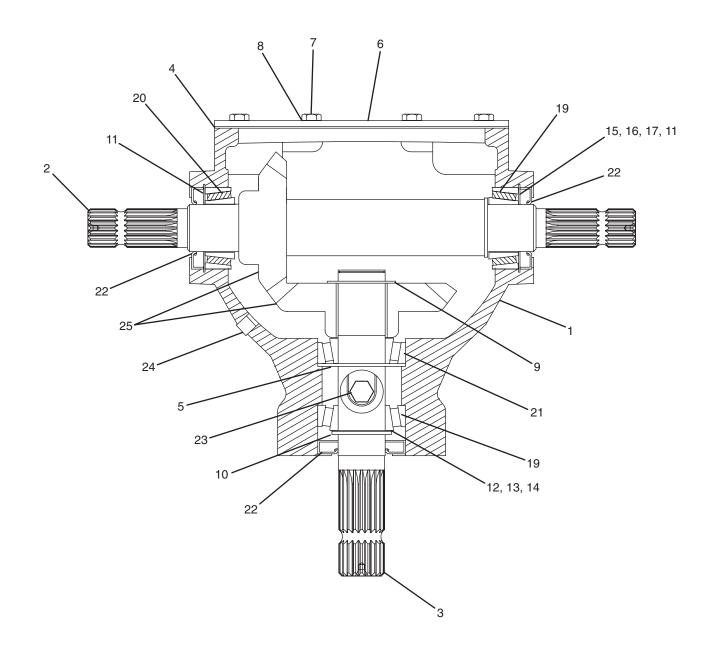
Drive Lines



#	QTY.	PART #	DESCRIPTION
1	2	4106	GREASEZERK,45 DEG SCW-IN 1/8NPT
2	2	N16970	BEARING, 1-3/4" SEALMASTER 4-BOLT FLANGE
3	16	4054	NUT, LOCK 1/2" TOP
4	30	4068	WASHER, 1/2" SAE FLAT
5	13	4014	BOLT, 1/2" X 1-3/4" GRADE 5
6	2	9092	SHAFT, SHRD DRIVELINE 82-1/2"
7	2	7121-03	KEY, 3/8" X 2"
8	2	N13132	SHIELD, SHRD 15' DRVLN OTR PVC
9	2	4105	GREASE-ZERK, 1/4" SCREW-IN
10	2	N16971	BEARING, 1-3/4 (SEALMASTER) PLWBK
11	9	4012	BOLT, 1/2" X 1-1/4" GRADE 5
12	1	9098	MOUNT, SHRD. DRVLN. BEARING LEFT
13	2	N13022	SHIELD, SHRD DRVLN INNER PVC
14	6	4155	WASHER, LOCK 1/2"
15	1	N11987	SHIELD, UNV SHRD BONDIOLI DRIVELINE RIGHT
16	1	N11988	SHIELD, UNV SHRD BONDIOLI DRIVELINE LEFT
17	4	4082	SCREW, SQ HEAD SET 3/8" X 1-1/4"
18	4	4061	NUT, 3/8" JAM
19	2	N12440	U-JOINT, 1-3/4" RB X 1-3/4"-20SPL
20	4	4517	BOLT, 3/4" X 2" GR 5
21	4	4287	WASHER, LOCK 3/4"
22	4	4071	WASHER, FLAT 3/4"
23	1	N13950	GEARBOX, 1450RPM 1:1 BONDIOLI
24	1	9110	SHIELD, SHRD PTO 12" X 16"
25	1	N13652	HOLDER, HOSE
26	1	8176	PTO, PT (1-3/4"-20 SPLINED W/OVERRUNNING CLUTCH)
	1	8175	PTO, PT (1-3/8"-21 SPLINED W/OVERRUNNING CLUTCH)
27	1	4092	PIN COTTER 5/32" X 2"
28	1	N36459	ROD, FLIPPER SHWD 15'
29	18	N18774	FLIPPER, SHREDDER 9-1/2" X 8-1/2"
30	1	9127	MOUNT,SHRD.DRVLN.BEARING RIGHT

Drive Lines

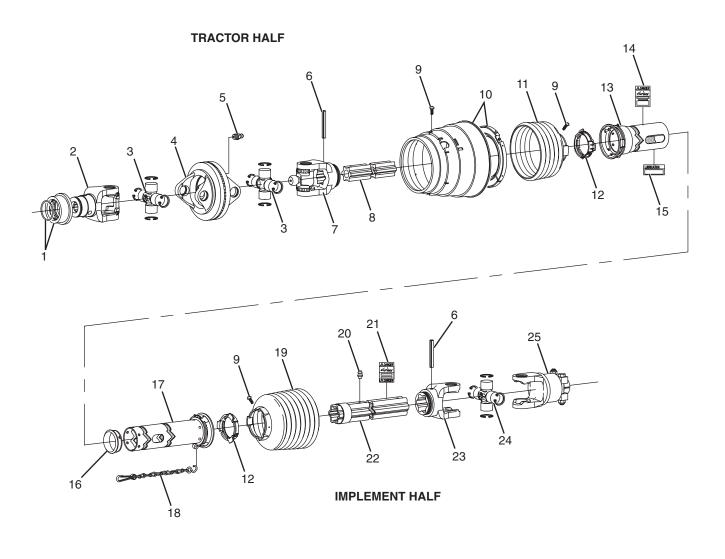
Gearbox, 1450 RPM Bondioli (N13950)



Gearbox, 1450 RPM Bondioli (N13950)

#	QTY.	PART #	DESCRIPTION
1	1	N14122	HOUSING, GEARBOX
2	1	8170-02	SHAFT, THROUGH
3	1	N14121	SHAFT, PINION
4	1	8170-04	GASKET, COVER
5	1	N14120	SPACER, PINION SHAFT
6	1	8170-06	COVER, HOUSING
7	8	8170-07	SCREW, COVER
8	8	8170-08	WASHER, COVER SCREW
9	1	8170-09	CIRCLIP, PINION SHAFT
10	1	8170-10	SNAP-RING, PINION SHAFT
11	2	8170-11	SNAP-RING, THROUGH SHAFT
12	1	8170-12	RING, PINION SHAFT
13	1	8170-13	RING, PINION SHAFT
14	1	8170-14	RING, PINION SHAFT
15	2	8170-15	RING, THROUGH SHAFT
16	2	8170-16	RING, THROUGH SHAFT
17	2	8170-17	RING, THROUGH SHAFT
18	2	8170-18	RING, THROUGH SHAFT
19	2	8170-19	BEARING, TAPERED ROLLER
20	1	8170-20	BEARING, THROUGH SHAFT
21	1	8170-21	BEARING, PINION SHAFT
22	3	8170-22	SEAL OIL
23	1	8001-18	PLUG, OIL VENT
24	5	8001-19	PLUG, OIL
25	1	N14119	GEAR, BEVEL 1:1 (SET)

PTO, 1-3/8" Walterscheid w/Overrunning Clutch (8175)



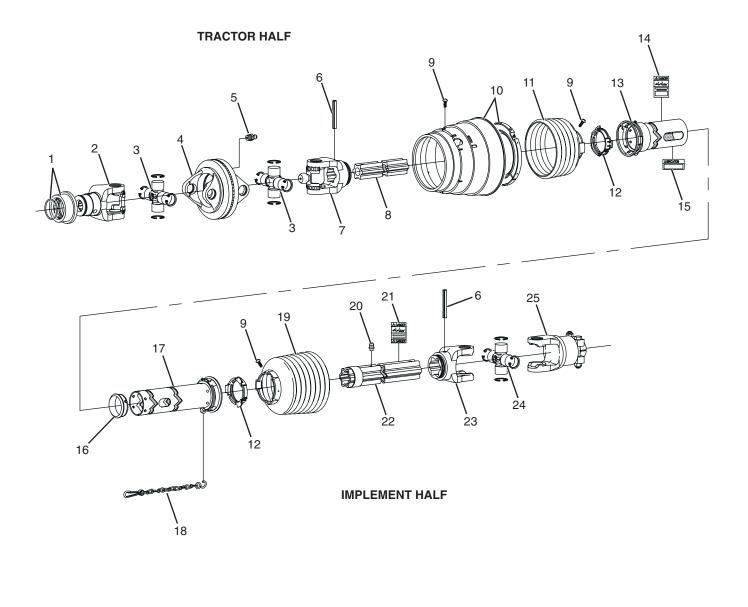
To order a complete tractor half of the PTO, use part number N10332.

To order a complete implement half of the PTO, use part number N10333.

#	QTY.	PART #	DESCRIPTION
1	1	N10360	KIT; PTO SNAP RING (INCLUDED W/N10337)
2	1	N10337	YOKE, PTO 1-3/8"-21 SPLINE AS
3	2	N10341	KIT, PTO CROSS & BEARING
4	1	N10338	YOKE, PTO DOUBLE
5	1	N10339	ZERK, PTO GREASE (INCLUDED W/N10338)
6	2	N10342	PIN, PTO SPRING (10MM X 90MM)
7	1	N10340	YOKE, PTO INBOARD (S4)
8	1	N10343	SHAFT, PTO PROFILE (S4GA)
9	8	N11750	SCREW, PTO RIBBED SHIELD (W/N10351, NI0352 & N10367)
10	1	N10351	BEARING, PTO CV CONE
11	1	N10352	SHIELD, PTO CONE 4-RIB
12	2	N10348	RING, PTO BEARING (SC25)
13	1	N10349	GUARD, PTO SHAFT OUTER
14	1	N10357	DECAL, PTO SHAFT GUARD (INCLUDED W/N10349)
15	1	N10862	DECAL, PTO LUBRICATION
16	1	N10355	BEARING, PTO TUBE GUARD SUPPORT
17	1	N10350	GUARD, PTO TUBE INNER
18	1	N10356	CHAIN, PTO SAFETY
19	1	N10367	SHIELD, PTO CONE 7-RIB
20	1	N10359	ZERK, PTO GREASE (INCLUDED W/N10861)
21	1	N11761	DECAL, PTO TUBE GUARD (INCLUDED W/N10861)
22	1	NI0861	TUBE, PTO PROFILE W/SLEEVE
23	1	N10345	YOKE, PTO INBOARD (S5)
24	1	N10347	KIT, PTO CROSS & BEARING
25	1	8192	CLUTCH, PTO OVERRUNNING

PTO, 1-3/8" Walterscheid w/Overrunning Clutch (8175)

PTO, 1-3/4" Walterscheid w/Overrunning Clutch (8176)



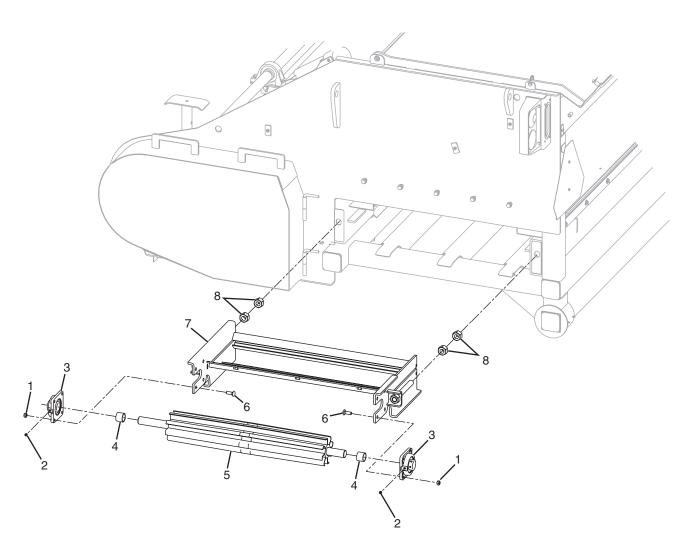
To order a complete tractor half of the PTO, use part number N10334.

To order a complete implement half of the PTO, use part number N10333.

#	QTY.	PART #	DESCRIPTION
1	1	N10362	KIT, PTO SNAP RING (INCLUDED W/N10361)
2	1	N10338	YOKE, PTO 1-3/4"-20 SPLINE AS
3	2	N10341	KIT, PTO CROSS & BEARING
4	1	N10338	YOKE, PTO DOUBLE
5	1	N10339	ZERK, PTO GREASE (INCLUDED W/N10338)
6	2	N10342	PIN, PTO SPRING (10MM X 90MM)
7	1	N10340	YOKE, PTO INBOARD (S4)
8	1	N10343	SHAFT, PTO PROFILE (S4GA)
9	8	N11750	SCREW, PTO RIBBED SHIELD (W/N10351 & N10367)
10	1	N10351	BEARING, PTO CV CONE
11	1	N10352	SHIELD, PTO CONE 4-RIB
12	2	N10348	RING, PTO BEARING (SC25)
13	1	N10349	GUARD, PTO SHAFT OUTER
14	1	N10357	DECAL, PTO SHAFT GUARD
15	1	N10862	DECAL, PTO LUBRICATION
16	1	N10355	BEARING, PTO TUBE GUARD SUPPORT
17	1	N10350	GUARD, PTO TUBE INNER
18	1	N10356	CHAIN, PTO SAFETY
19	1	N10367	SHIELD, PTO CONE 7-RIB
20	1	N10359	ZERK, PTO GREASE
21	1	N11761	DECAL, PTO TUBE GUARD
22	1	NI0861	TUBE, PTO PROFILE W/SLEEVE
23	1	N10345	YOKE, PTO INBOARD (S5)
24	1	N10347	KIT, PTO CROSS & BEARING
25	1	8192	CLUTCH, PTO OVERRUNNING

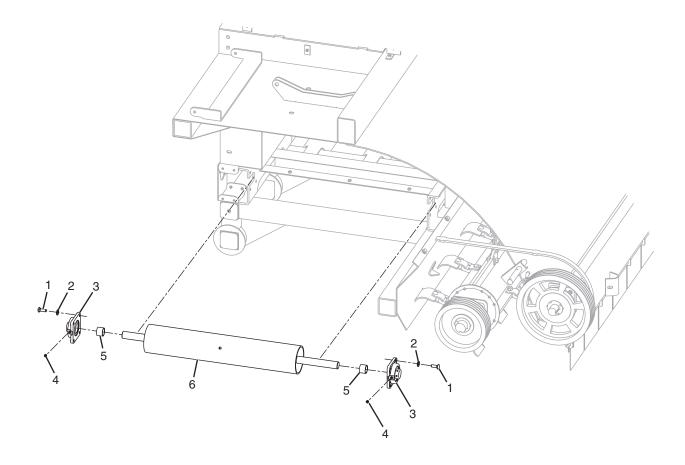
PTO, 1-3/4" Walterscheid w/Overrunning Clutch (8176)

Takeup, Draper Tailstock



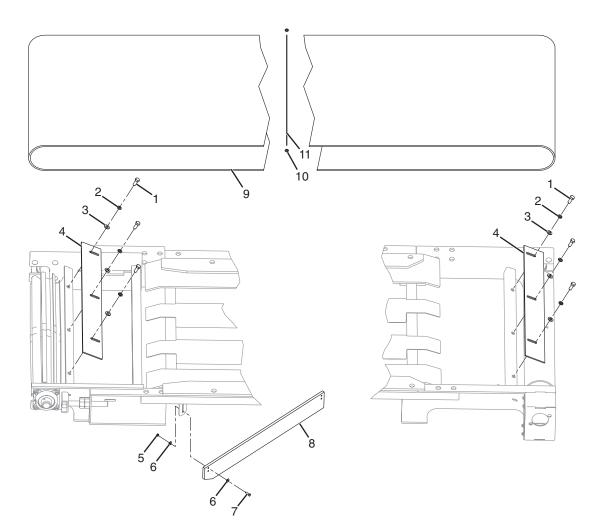
#	QTY.	PART #	DESCRIPTION
1	8	4054	NUT, LOCK 1/2" TOP
2	2	N25062	GREASE ZERK, 90 DEG 1/8" NPT
3	2	N30229	BEARING, 1-1/2" DODGE 4-BLT FLG
4	2	N36510	BUSHING, IDLER .781"
5	1	N36610	PULLEY, DRAPER TAILSTOCK OS
6	8	4039	BOLT, CARRIAGE 1/2" X 1-1/2"
7	1	N36627	TAKEUP, DRAPER TAILSTOCK 2
8	4	N28130	NUT, 1" ACME

Drum, Draper Belt Drive

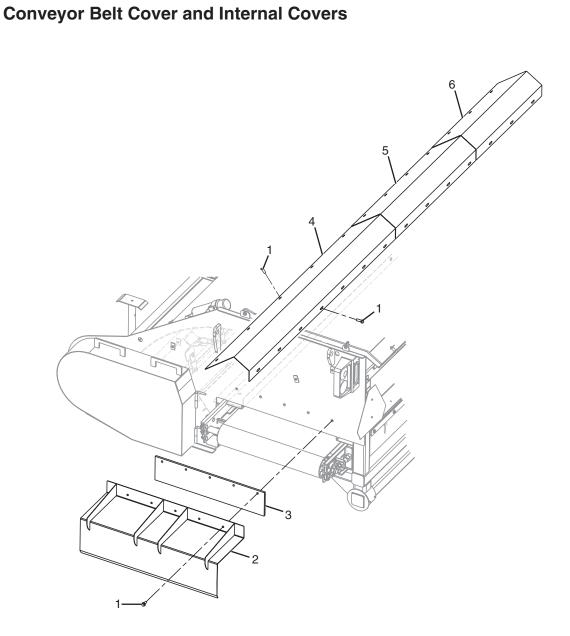


#	QTY.	PART #	DESCRIPTION
1	8	4013	BOLT, 1/2" X 1-1/2" GR 5
2	8	N16472	WASHER, NORD-LOCK 1/2"
3	2	N30229	BEARING, 1-1/2" DODGE 4-BLT FLG
4	2	4105	GREASE-ZERK, 1/4" SCREW-IN
5	2	N36501	BUSHING, DRIVE .594"
6	1	N36613	DRUM, SHWD BELT DRIVE CROWNED

Conveyor Scrapers and Belt

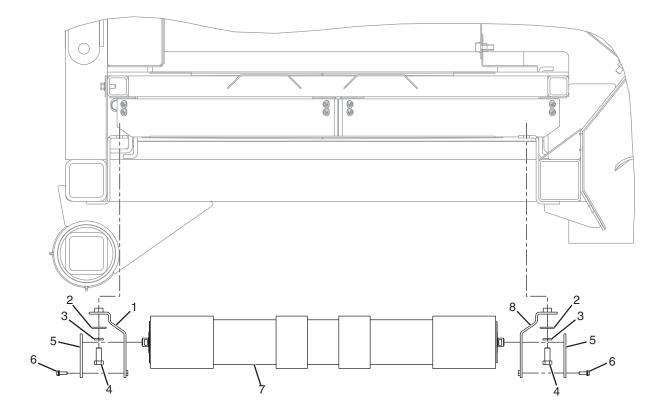


#	QTY.	PART #	DESCRIPTION
1	6	4012	BOLT, 1/2" X 1-1/4" GRADE 5
2	6	4155	WASHER, LOCK 1/2"
3	6	4068	WASHER, 1/2" SAE FLAT
4	2	N36641	PLATE, CROWNED SCRAPER
5	8	4050	NUT, 1/4" LOCK
6	16	4460	WASHER, FLAT 1/4"
7	8	4000	BOLT, 1/4" X 1" GRADE 5
8	2	N36631	SCRAPER, CONVEYOR SHORT
9	1	N35007	BELT, 33 X 323
10	2	N35112	WASHER, SHWD CON BELT CRIMPED
11	1	N35111	CABLE, SHWD CONVEYOR BELT



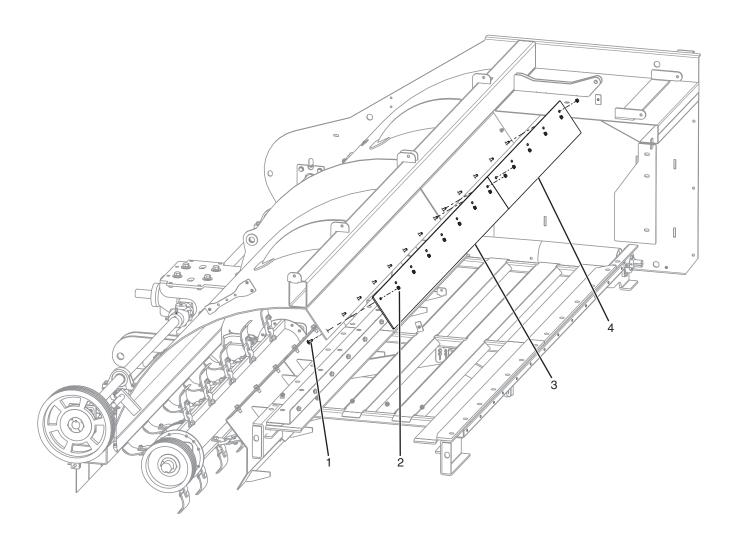
#	QTY.	PART #	DESCRIPTION
1	31	N18360	BOLT, 1/2" X 1-1/4" SERATED FLANGE
2	1	N32832	GUARD, CONV ASM
3	1	N32565	SKIRTING, CONV SHWD
4	1	N36693	COVER, INTERNAL 89" 30' LEFT
5	1	N32812	COVER, INTERNAL 49"
6	1	N32813	COVER, INTERNAL 40"

Return Roller



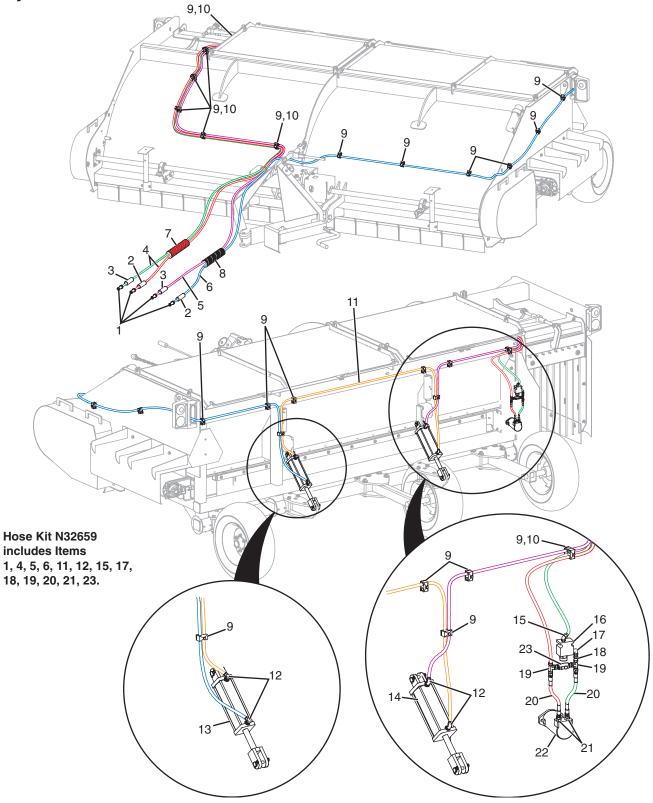
#	QTY.	PART #	DESCRIPTION
1	1	N36638	BRACKET, SHWD RETURN ROLL MT B
2	4	4486	WASHER, 1/2" FLAT
3	4	4155	WASHER, LOCK 1/2"
4	4	4012	BOLT, 1/2" X 1-1/4" GRADE 5
5	2	N36678	PLATE, SHWD ROLLER HOLDER
6	4	4573	BOLT, 1/4" X 3/4" SER FLG
7	1	N36640	ROLLER, C5 30" RETURN URETHANE
8	1	N36677	BRACKET, SHWED RETURN ROLL MT F

Baffles



#	QTY.	PART #	DESCRIPTION
1	13	4034	BOLT, CARRIAGE 3/8" X 1"
2	13	4979	NUT, LOCK 3/8" SER FLANGE
3	1	N36696	BAFFLE, EXT BOLT-IN LG 15' - 30'
4	1	N36697	BAFFLE, EXT BOLT-IN LG 15 - 30 S

Hydraulics



#	QTY.	PART #	DESCRIPTION
*1	4	N11825	COUPLER, 1/2" MALE PIONEER
**2	2	N24823	DECAL, TANK
**3	2	N24822	DECAL, PRESSURE
*4	2	N32662	HOSE, 3/8 X 270 -8FJ1C-8MP
*5	1	N32663	HOSE, 3/8" X 303" 8FJ1C-8MP
*6	1	N32664	HOSE, 3/8" X 336" 8FJ-8MP
7	1	N32884	COVERING, HOSE - RED
8	1	N32882	COVERING, HOSE - BLACK
9	26	N21365	CLAMP, 3/8" HYD HOSE DOUBLE
10	6	N28436	BOLT, 5/16" X 2-1/4" GR5
*11	1	N32661	HOSE, 3/8" X 128" -8FJX -8FJX
*12	4	N11952	ELBOW, 90 DEG - 8MJIC - 8MOR
13	1	8042	CYLINDER, 3" X 8" REPHASING
14	1	8043	CYLINDER, 3-1/4" X 8" REPHASNG
*15	1	N26332	ELBOW, 45 DEG - 8MJIC - 12MOR
16	1	N36628	VALVE, FLOW CONTROL, 14 GPM
*17	1	N26333	ELBOW, 90 DEG - 8MJIC - 12MOR
*18	1	N30040	ADAPTER, 8FJC - 8 FJC
*19	2	N28895	TEE, -8MJIC -8MJIC -8FJIC
*20	2	N25197	HOSE, 3/8" X 12" -8FJIC -8FJIC
*21	2	N12444	ADAPTER, 8MJIC - 10MOR
22	1	N29849	MOTOR, CHAR-LYNN 11.9 CID
*23	1	N32536	VALVE, CHECK -8MJ/8MJ/5 PSI

Hydraulics

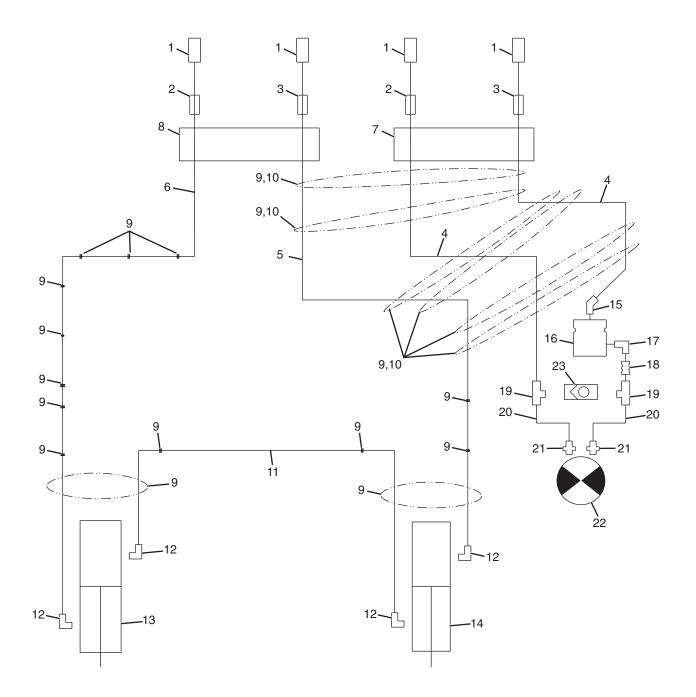
* Included in Hose Kit N32659.

** Included in Decal Kit N32592.

See page 58 and page 59 for schematic of Main Hydraulics.

NOTE: When clamps are doubled up at mounting location, discard the 5/16" X 1-3/8" bolt that comes with kit N21365, and replace with 5/16" X 2-1/4" bolt (Item 10, part number N28436).

Schematic, Hydraulics



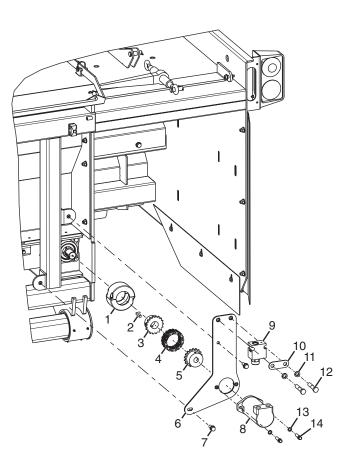
Hose Kit N32659 includes Items 1, 4, 5, 6, 11, 12, 15, 17, 18, 19, 20, 21, 23.

#	QTY.	PART #	DESCRIPTION
*1	4	N11825	COUPLER, 1/2" MALE PIONEER
**2	2	N24823	DECAL, TANK
**3	2	N24822	DECAL, PRESSURE
*4	2	N32662	HOSE, 3/8 X 270 -8FJ1C-8MP
*5	1	N32663	HOSE, 3/8" X 303" 8FJ1C-8MP
*6	1	N32664	HOSE, 3/8" X 336" 8FJ-8MP
7	1	N32884	COVERING, HOSE - RED
8	1	N32882	COVERING, HOSE - BLACK
9	26	N21365	CLAMP, 3/8" HYD HOSE DOUBLE
10	6	N28436	BOLT, 5/16" X 2-1/4" GR5
*11	1	N32661	HOSE, 3/8" X 128" -8FJX -8FJX
*12	4	N11952	ELBOW, 90 DEG - 8MJIC - 8MOR
13	1	8042	CYLINDER, 3" X 8" REPHASING
14	1	8043	CYLINDER, 3-1/4" X 8" REPHASNG
*15	1	N26332	ELBOW, 45 DEG - 8MJIC - 12MOR
16	1	N36628	VALVE, FLOW CONTROL, 14 GPM
*17	1	N26333	ELBOW, 90 DEG - 8MJIC - 12MOR
*18	1	N30040	ADAPTER, 8FJC - 8 FJC
*19	2	N28895	TEE, -8MJIC -8MJIC -8FJIC
*20	2	N25197	HOSE, 3/8" X 12" -8FJIC -8FJIC
*21	2	N12444	ADAPTER, 8MJIC - 10MOR
22	1	N29849	MOTOR, CHAR-LYNN 11.9 CID
*23	1	N32536	VALVE, CHECK -8MJ/8MJ/5 PSI

* Included in Hose Kit N32659.

** Included in Decal Kit N32592.

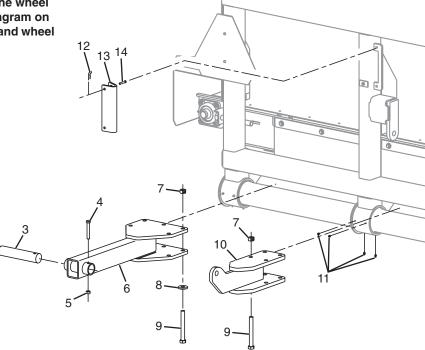
Conveyor Motor



#	QTY.	PART #	DESCRIPTION
1	1	N36502	HOUSING, 50 CHAIN CPL COVER
2	1	7121-02	KEY, 3/8" X 1-3/4"
3	1	N32136	COUPLER, SPROCKET 1.5" BORE 50 C
4	1	N32138	CHAIN, COUPLER #50 - 11 LINKS
5	1	N32137	COUPLER, SPROCKET 1" BORE 50 C
6	1	N32992	PLATE, TQ WELDMENT
7	2	N18360	BOLT, 1/2" X 1-1/4" SER FLG
8	1	N29849	MOTOR, CHAR-LYNN 11.9 CID
9	1	N36628	VALVE, FLOW CONTROL,14 GPM
10	1	N36795	PLATE, SHWD VALVE RETAINER
11	2	4228	WASHER, LOCK 5/16"
12	2	4004	BOLT, 5/16" X 3" GR 5
13	2	N16472	WASHER, NORD-LOCK 1/2"
14	2	N28502	BOLT, 1/2 X 1-1/2 12 PT GRD8

Wheel Assembly

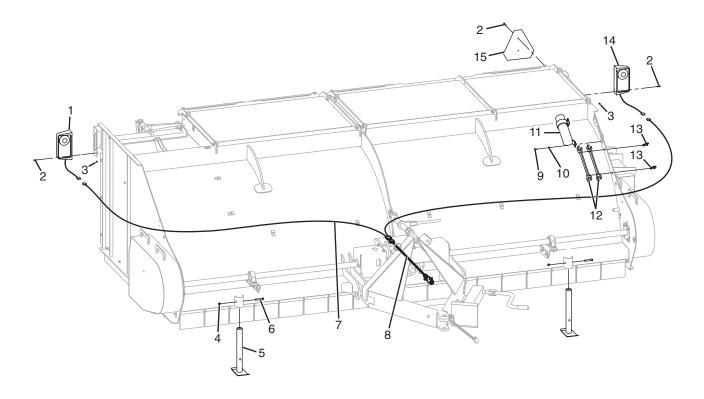
NOTE: The wheel assembly on the outer left is oriented as shown. The middle and right wheel assemblies are inverted so the wheels are outside of the wheel strut weldment. Follow the diagram on page 13 for wheel orientation and wheel assembly locations.



#	QTY.	PART #	DESCRIPTION			
1	3	N22459	WHEEL, 11L-15 HIWAY D RATING			
2	3	N23778	HUB, 6 BOLT 6" PAT W/STUDS			
3	3	N36727	SPINDLE, SHWD BOLT-IN			
4	3	4467	BOLT, 1/2" X 3-1/4" GRADE 5			
5	3	4054	NUT, LOCK 1/2" TOP			
6	3	N36729	WLDMT, SHWD WHEEL STRUT DUAL			
7	19	4056	NUT LOCK 3/4			
8	15	4071	WASHER, 3/4" FLAT			
9	19	4458	BOLT, 3/4" X 6-1/2" GR. 5			
10	2	N35036	ARM, LIFT WELDMENT			
11	16	4105	GREASE-ZERK, 1/4" SCREW-IN			
12	2	4089	CLIP, HAIRPIN .093 X 1-5/8"			
13	2	N19768	CYLINDER STOP 9" - UNIVERSAL			
14	2	4093	PIN, 3/8" X 3" (2.75" USEABLE)			

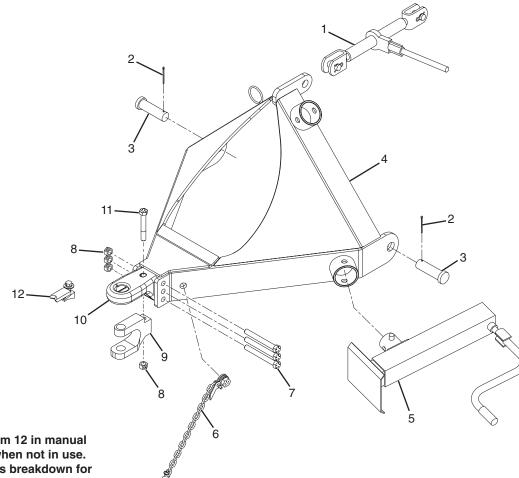
Parts Identification

Lights, Manual Holder, Jack Stands



#	QTY.	PART #	DESCRIPTION			
1	1	N16290	LIGHT, RIGHT			
2	10	4000	BOLT, 1/4" X 1" GRADE 5			
3	8	4050	NUT, LOCK 1/4"			
4	2	4054	NUT, LOCK 1/2" TOP			
5	2	N32552	JACK, STORAGE STAND (SHREDDER)			
6	2	4154	BOLT, 1/2" X 3-1/2" GRADE 5			
7	1	N16288	HARNESS, 25' REAR WISHBONE			
8	1	N22784	HARNESS, GBU 4' BRAIDED TONGUE			
9	2	4340	BOLT, 1/4" X 3/4" GRADE 5			
10	2	4231	WASHER, LOCK 1/4"			
11	1	N19600	HOLDER, 01-315A STND. MANUAL			
12	2	N29884	WRENCH, 1-5/8" LASER CUT			
13	2	N27991	PIN, 3/8" X 1-3/8" RETAINER			
14	1	N16289	LIGHT, LEFT			
15	1	N18549	DECAL, (SLOW MOVING SIGN)			



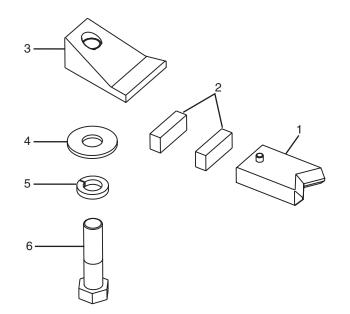


Store Item 12 in manual holder when not in use. See parts breakdown for this item on page 64.

#	QTY.	PART # DESCRIPTION				
1	1	8048	BODY, RATCHET JACK			
2	2	4355	PIN, COTTER 3/16" X 2-1/2"			
3	2	N13095	PIN, HITCH 1-1/2" X 4"			
4	1	N36635	HITCH, SHWD PULL-TYPE			
5	1	N13732	JACK, PULL-TYPE HITCH			
6	1	N24248	CHAIN, SAFETY W/MOUNT HARDWARE			
7	3	N16351	BOLT, 3/4" 6-1/2" FINE THREAD GRADE 8			
8	4	4056	NUT, LOCK 3/4			
9	1	N37463	CLEVIS, CAT 2 BOLT-ON HITCH			
10	1	N32970	HITCH, BOLT-ON, CAT 3			
11	1	4577	BOLT, 3/4" X 5" FN TH GR 8			
12	1	N37609 KIT, GBU10 HITCH CONV				

Parts Identification

Hitch Conversion Kit (N37609)



#	QTY.	PART #	DESCRIPTION		
1	1	N37475	BLOCK, CAT 2 BOLT-ON REC V		
2	2	N37477	CUSHION, CAT 2 BOLT-ON REC		
3	1	N37476	PLATE, CAT 2 BOLT-ON REC TOP		
4	1	4071	WASHER, 3/4" FLAT		
5	1	4287	WASHER, 3/4" LOCK		
6	1	4352 BOLT, 3/4" X 3" GRADE 5			

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 9.

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

NOTE: To order a complete Draper Windrower Shredder Decal Kit use part number N32592.

Part No. N17013

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. 4256



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. 4334



Part No. 4189



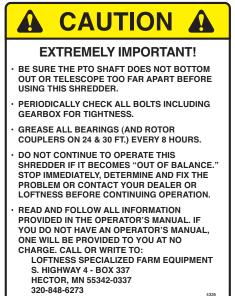
Part No. N22763



Part No. 4135



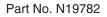
Part No. 4335

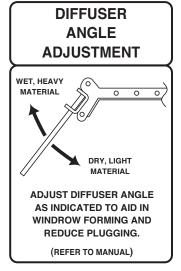


Machine Decals and Signs (Cont'd)



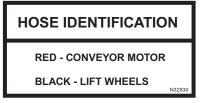
Part No. 4140





Part No. N24822	Part No. N24823
PRESSURE	
PRESSURE	TANK

Part No. N32930



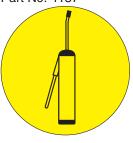
Part No. N32851



Part No. 4136



Part No. 4137



Machine Decals and Signs (Cont'd)





RESIDUE MANAGEMENT EQUIPMENT

Part No. N13721

Model Number	
	_
Serial Number	
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Part No. N33104



Part No. N13517

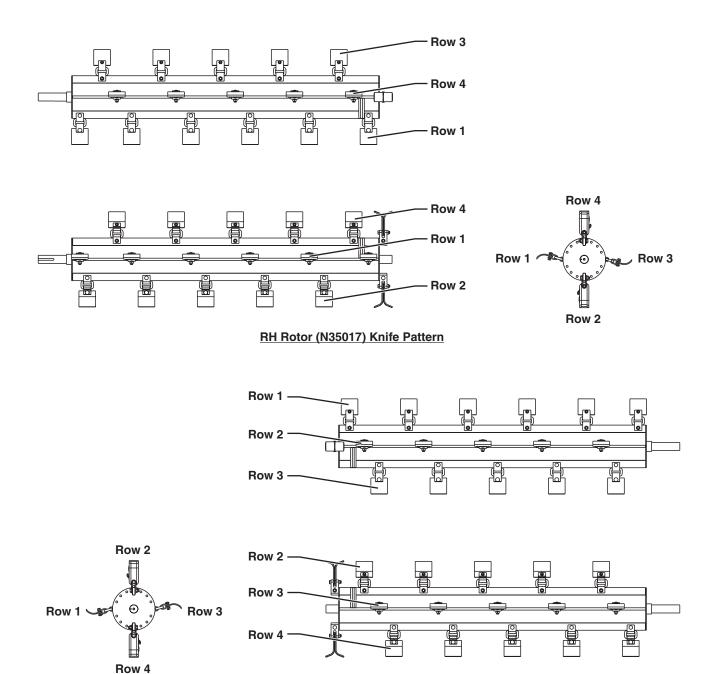


Part No. 4138





Rotor Knife Pattern



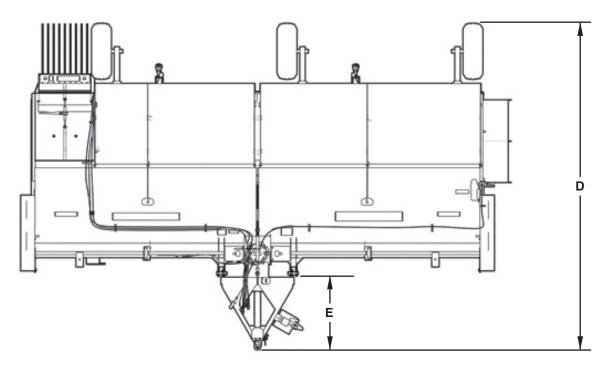
LH Rotor (N35011) Knife Pattern

Specifications

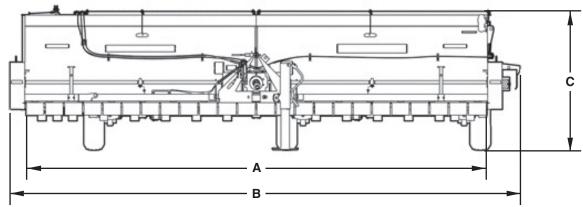
DESCRIPTION	Draper Windrower Shredder
Cutting Width	180 in. (457.2 cm)
Knives	42 Cupped and 4 High Residue
Weight	approx. 9,000 lbs. (4,082.33 kg)
Field Tongue Weight	3,000 lbs. (1,360.77 kg)
Rotor	1450 RPM Computer Balanced
	7 1/2 in. (19.05 cm) Tube Diameter
	2 3/16 in. (5.55 cm) Shaft Diameter
Draper Belt	33 in. (83.82 cm) Wide, 152 in. (386.08 cm) Long, Hydraulic Driven
Drive	1,000 RPM PTO
	Bondioli 280 HP

Dimensions





FRONT



DESCRIPTION	Draper Windrower Shredder			
Cutting Width (A)	180 in. (457.2 cm)			
Overall Width (B)	202 in. (513.08 cm)			
Standard Height (C)	72 in. (182.88 cm)			
Total Depth (D)	175 in. (444.5 cm)			
Pull-type Hitch Length (E)	41.5 in. (105.41 cm)			

Torque Specifications

Inches Hardware and Lock Nuts

TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications

(Standard Hardware and Lock Nuts)

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

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LOCK NUT NOTCH MARKING

B

c

CENTER LOCK MARKING

LOCK NUT MARKING

Torque Specifications (Cont'd)

Metric Hardware and Lock Nuts

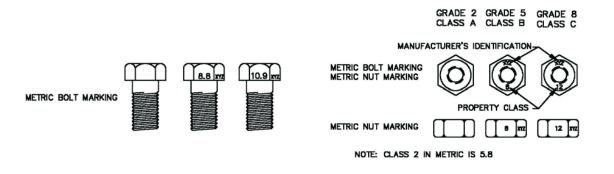
TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications

(Metric Hardware and Lock Nuts)

	Class 5,8		Clas	s 8,8	Class	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
Μ4	1.7 N•m	2.2 N•m	2.6 N•m	3.4 N•m	3.7 N•m	4.8 N∙m	1.8 N∙m
	(15 inlb.)	(19 inlb.)	(23 inlb.)	(30 inlb.)	(33 inlb.)	(42 inlb.)	(16 inlb.)
M6	5.8 N•m	7.6 N•m	8.9 N•m	12 N•m	13 N•m	17 N•m	6.3 N∙m
	(51 inlb.)	(67 inlb.)	(79 inlb.)	(102 inlb.)	(115 inlb.)	(150 inlb.)	(56 inlb.)
M8	14 N•m	18 N∙m	22 N•m	28 N•m	31 N•m	40 N•m	15 N•m
	(124 inlb.)	(159 inlb.)	(195 inlb.)	(248 inlb.)	(274 inlb.)	(354 inlb.)	(133 inlb.)
M10	28 N•m	36 N∙m	43 N∙m	56 N∙m	61 N•m	79 N∙m	30 N∙m
	(21 ftlb.)	(27 ftlb.)	(32 ftlb.)	(41 ftlb.)	(45 ftlb.)	(58 ftlb.)	(22 ftlb.)
M12	49 N•m	63 N∙m	75 N∙m	97 N•m	107 N•m	138 N•m	53 N•m
	(36 ftlb.)	(46 ftlb.)	(55 ftlb.)	(72 ftlb.)	(79 ftlb.)	(102 ftlb.)	(39 ftlb.)
M16	121 N•m	158 N•m	186 N•m	240 N•m	266 N•m	344 N∙m	131N•m
	(89 ftlb.)	(117 ftlb.)	(137 ftlb.)	(177 ftlb.)	(196 ftlb.)	(254 ftlb.)	(97 ftlb.)
M20	237 N•m	307 N•m	375 N∙m	485 N∙m	519 N•m	671 N•m	265 N∙m
	(175 ftlb.)	(226 ftlb.)	(277 ftlb.)	(358 ftlb.)	(383 ftlb.)	(495 ftlb.)	(195 ftlb.)
M24	411 N•m	531 N•m	648 N∙m	839 N•m	897 N•m	1160 N•m	458 N∙m
	(303 ftlb.)	(392 ftlb.)	(478 ftlb.)	(619 ftlb.)	(662 ftlb.)	(855 ftlb.)	(338 ftlb.)





www.loftness.com

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