



# COMPACT TRACTOR

# **SNOWBLOWER**

**Owner / Operator Manual** 

& Parts Book

**Sheyenne Tooling & Mfg.** 

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# COMPACT TRACTOR SNOWBLOWER

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## **MODELS**

**500CT** 

600CT

### 5 And 6 Foot Width





## **ATTENTION DEALER**

The dealer has primary responsibility for warranty registration of the Compact Tractor Snowblower. The dealer and the purchaser should jointly record the information on page 3 and the warranty <u>pages</u> that follow that page. Both parties need to keep their respective copies. It is advisable for the purchaser to share the name of the insurance company that is covering his or her equipment. This is helpful in the event of loss or theft.

# Be sure the OWNERS MANUAL remains with the snowblower when sold. It contains important procedures for safe operation of the snowblower.





#### **SERIAL NUMBER LOCATION**

Always give your dealer the serial number of your Compact Tractor Snowblower when ordering parts or requesting service or other information.

The serial number plate is located as indicated. For future reference, please write the model and serial number in the space provided below and complete the warranty pages which follow.



SERIAL NUMBER LOCATION

It is the responsibility of the **purchaser** and all **operator's** to **read and understand** this manual. It has been prepared to assist in the safe operation and suitable maintenance of this implement. The information is applicable to the product at the time of manufacture and does not include modifications or updates made thereafter.

Model Number_		
Serial Number		

#### Please enter information below and SAVE FOR FUTURE REFERENCE

#### **SNOWBLOWER WARRANTY**

SHEYENNE TOOLING & MANUFACTURING warrants each new product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the machine or components, not to exceed twelve consecutive months from the date of delivery of the new SHEYENNE TOOLING & MANUFACTURING product to the original purchaser.

Genuine SHEYENNE TOOLING & MANUFACTURING replacement parts and components will be warranted for 90 days from date of purchase, or the remainder of the original equipment warranty period, whichever is longer.

Under no circumstances will it cover any merchandise or components thereof, which in the opinion of the company, has been subject to negligent handling, misuse, alteration, an accident, or if repairs have been made with parts other than those obtainable through SHEYENNE TOOLING & MANUFACURING.

Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that in our judgment shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from date of failure to SHEYENNE TOOLING & MANUFACTURING.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature to person or property.

Except as set forth above, SHEYENNE TOOLING & MANUFACTURING shall have no obligation of liability of any kind on account of any of its equipment and shall not be liable for special or consequential damage. SHEYENNE TOOLING & MANUFACTURING makes no other warranty, express or implied, and, specifically, SHEYENNE TOOLING & MANUFACTURING disclaims any implied warranty of merchantability of fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties of incidental or consequential damages, so the limitations or exclusions in this warranty may not apply.

This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts.

SHEYENNE TOOLING & MANUFACTURING reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligations to owners of units previously sold.

No one is authorized to alter, modify or enlarge neither this warranty nor the exclusions, limitations and reservations.

I have read and understand the above instructions and warranty. Warranty is invalid until all three copies are completed and signed. Customer copy retained, dealer copy in dealer's possession and manufacturer's copy returned.

Date Purchased	Dealership
Model Number	Serial Number
Customer Signature	Date
Dealer Signature	Date

#### Please enter information below and SAVE FOR FUTURE REFERENCE

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Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that in our judgment shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from date of failure to SHEYENNE TOOLING & MANUFACTURING.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature to person or property.

Except as set forth above, SHEYENNE TOOLING & MANUFACTURING shall have no obligation of liability of any kind on account of any of its equipment and shall not be liable for special or consequential damage. SHEYENNE TOOLING & MANUFACTURING makes no other warranty, express or implied, and, specifically, SHEYENNE TOOLING & MANUFACTURING disclaims any implied warranty of merchantability of fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties of incidental or consequential damages, so the limitations or exclusions in this warranty may not apply.

This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts.

SHEYENNE TOOLING & MANUFACTURING reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligations to owners of units previously sold.

No one is authorized to alter, modify or enlarge neither this warranty nor the exclusions, limitations and reservations.

I have read and understand the above instructions and warranty. Warranty is invalid until all three copies are completed and signed. Customer copy retained, dealer copy in dealer's possession and manufacturer's copy returned.

Date Purchased	Dealership
Model Number	Serial Number
Customer Signature	Date
Dealer Signature	Date



#### PLEASE ENTER INFORMATION BELOW AND RETURN TO SHEYENNE TOOLING AND MANUFACTURING

#### SNOWBLOWER WARRANTY

SHEYENNE TOOLING & MANUFACTURING warrants each new product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the machine or components, not to exceed twelve consecutive months from the date of delivery of the new SHEYENNE TOOLING & MANUFACTURING product to the original purchaser.

Genuine SHEYENNE TOOLING & MANUFACTURING replacement parts and components will be warranted for 90 days from date of purchase, or the remainder of the original equipment warranty period, whichever is longer. Warranty is not applicable for normal wear and usage.

Under no circumstances will it cover any merchandise or components thereof, which in the opinion of the company, has been subject to negligent handling, misuse, alteration, an accident, or if repairs have been made with parts other than those obtainable through SHEYENNE TOOLING & MANUFACTURING.

Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that in our judgement shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from date of failure to SHEYENNE TOOLING & MANUFACTURING.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature to person or property.

Except as set forth above, SHEYENNE TOOLING & MANUFACTURING shall have no obligation of liability of any kind on account of any of its equipment and shall not be liable for special or consequential damage. SHEYENNE TOOLING & MANUFACTURING makes no other warranty, express or implied, and, specifically, SHEYENNE TOOLING & MANUFACTURING disclaims any implied warranty of merchantability of fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties of incidental or consequential damages, so the limitations or exclusions in this warranty may not apply.

This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts.

SHEYENNE TOOLING & MANUFACTURING reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligations to owners of units previously sold.

No one is authorized to alter, modify or enlarge neither this warranty nor the exclusions, limitations and reservations.

I have read and understand the above instructions and warranty. I have also read the owner's manual and understand all safety precautions. Warranty is invalid until all three copies are completed and signed. Customer copy retained, dealer copy in the dealer's possession and the manufacturer's copy returned.

Date Purchased		Dealership	
Model Number		Serial Number	
Customer Information:	Name (Please Print)		
	Address		
			, Zip Code
	E-Mail (If Applicable)		
	Signature		, Date
Dealer Signature		Date	

Please return via; fax, regular mail or e-mail; to: fax number - (701) 797-2584 address --

Sheyenne Tooling and Manufacturing
PO Box 647
Cooperstown, ND 58425

e-mail – warranty@sheyennemfg.com

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#### 1 INTRODUCTION

Congratulations on your choice of a Sheyenne Manufacturing, Compact Tractor(CT) Snowblower. This equipment has been designed and manufactured to meet the needs of a wide variety of discerning users.

Safe, efficient and trouble free operation of your snowblower requires that you and anyone else who will be operating or maintaining it, read and understand the Safety, Operation, Maintenance and Trouble Shooting information contained within the Operator's Manual.



### COMPACT TRACTOR SNOWBLOWER

This manual covers the models 500 CT and 600 CT Snowblower made by Sheyenne Manufacturing.

Keep this manual handy for frequent reference and to pass on to new operators or owners. Call your Sheyenne/Westgo dealer if you need assistance, information or additional copies of this manual.

**OPERATOR ORIENTATION** - The directions left and right, as mentioned in the manual, are seen from the tractor driver's seat.

# THE SYMBOL SHOWN BELOW IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS CONCERNING YOUR PERSONAL SAFETY



BE ALERT!

Your Safety is involved

#### SAFETY ALERT SYMBOL



Why is SAFETY so important to you?

# 3 Big Reasons Accidents Can Be Avoided Accidents Disable and Kill Accidents Are Costly

This safety alert symbol appears in this manual and on many of the decals on the snowblower and tractor. It is used to draw your attention to the possibility of personal injury or lose of life. We **urge** you to follow all safety instructions. Be alert to safety issues at **all** times!

In addition you will see the use of **signal words** with the safety messages. The appropriate signal word for each message has been selected using the following guide-lines:

A

**DANGER:** Indicates an immediate hazardous situation which, if not avoided,

will result in death or serious injury.

A

**WARNING:** Indicates a potentially hazardous situation which, if not avoided,

could result in death or serious injury.

A

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may

result in minor or moderate injury.

**IMPORTANT:** Indicates that equipment or property damage could result if

instructions are not followed.

**NOTE:** Gives helpful information.

The Compact Tractor Snowblower is designed to give safe, dependable service if operated and maintained according to instructions. Read and understand this manual before operating. It is the owner's responsibility to be certain anyone operating this product reads this manual, and all other applicable manuals, (including tractor) to become familiar with this equipment and all safety precautions. Failure to do so could result in serious personal injury or equipment damage. If you have any questions, consult your dealer.

#### **SAFETY**

#### **Child Safety**

Tragic accidents can occur if the operator is not alert to the presence of children and other curious by-standers. Children are naturally attracted to machines and the work being done. Never assume children will remain where you last saw them.

- 1. Keep children and others out of the operating area and under the watchful eye or another responsible adult.
- 2. Be alert and turn machine off if children enter the work area.
- **3.** Before and when backing, look behind for children and others.
- **4.** Never carry children while operating the machine. They may fall off and be seriously injured or worse.
- 5. Never allow children to play on the machine or attachment even when machine(s) are turned off.
- **6.** Never allow children to operate the machine even under adult supervision.
- 7. Use extra care when approaching blind corners, shrubs, trees, or other obstructions that might hide children from sight.

#### NOTICE

A safe operator is the best assurance against accidents. All operator's, no matter how experienced they may be, should read this operator's manual before attempting to operate the equipment. Please read the following section and pay particular attention to all safety recommendations

## **Before Operation**

- 1. Again, read and understand this operator's manual and the tractor operator's manual. Know how to operate all controls and how to stop the unit and disengage the controls quickly.
- 2. Never wear loose, torn, or bulky clothing around the tractor and the snowblower. It may catch on moving parts or controls, causing injury.

- 3. Before and during the snow season, thoroughly inspect the area where the equipment is to be used and remove all objects that may be thrown or cause damage to the equipment.
- **4.** Set transmission to neutral and disengage the clutch (if so equipped), before starting the engine.
- **5.** Do not operate equipment in wintertime without wearing adequate winter clothing.
- 6. Never attempt to make any adjustments while engine is running. Read this manual carefully to acquaint yourself with the equipment as well as the tractor operator's manual. Working with unfamiliar equipment can lead to accidents. Be thoroughly familiar with the controls and proper use of the equipment.
- 7. Keep all safety guards in place and verify hardware for proper tightening.
- **8.** Check for moving parts excessive wear regularly. Replace worn parts with genuine parts.
- **9.** Replace all missing, illegible, or damaged safety and warning decals. See page 13 for safety decals and their locations.
- 10. Keep safety decals clean of dirt and grime.
- 11. Do not modify or alter this equipment or any of its components or any equipment function without first consulting your dealer and/or the manufacture. Failure to get written consent will result in voiding the warranty.
- 12. The use of rear counterweights on the tractor is recommended. Weights provide the necessary balance to improve stability, traction and steering. Use only those recommended by your dealer. Please refer to tractor's operator's manual for proper ballasting information.

#### SAFETY AND OPERATING

#### **Snowblower Operation**

- 1. Before leaving the tractor unattended or when work is completed, take all possible precautions. Park the tractor and snowblower on level ground, place the transmission in neutral, set the parking brake, disengage the equipment drive, lower the equipment to the ground, place all levers including auxiliary control levers in neutral, shut off the engine and remove the ignition key.
- 2. Before starting the tractor and snowblower, remove any ice that has accumulated in the auger/fan.
- **3.** Prior to operation, clear work area of all objects that can be picked up and thrown. Mark all curbs, pipes, etc. that cannot be moved.
- **4.** Be sure the PTO switch/lever is in the OFF position before starting engine.
- **5.** Exercise extreme caution when operating on or crossing a gravel drive, walks, or roads. Stay alert for hidden hazards or traffic.
- **6.** Do not carry passengers.
- 7. Adjust skid shoe height to clear gravel or crushed rock. Stones and rocks can easily be picked-up and thrown with the snow.

  Always turn the directional spout away from persons, pets, windows, vehicles, all structures and even trees and shrubs.
- **8.** Keep well clear of all rotating parts. **Do not** put hands or feet under, or into snowblower with tractor engine running.
- 9. To inspect, adjust, do repairs or unclog the machine, follow the same procedure to safely shut down the snowblower and the tractor as stated in step #1 above. Wait for rotating parts to stop before attempting to unclog any portion of the snowblower. Use a long piece of wood (approx. 3 feet) to safely unclog.

- **10.** If the snowblower begins to vibrate abnormally, disengage the equipment drive, stop the engine immediately and check for the cause. Excessive vibration is generally a sign of trouble.
- 11. Do not run the tractor engine indoors except when starting engine and transporting attachment in or out of building. Carbon monoxide gas is colorless, odorless and deadly.
- **12.** Avoid operating on steep slopes. When necessary to operate on a slope, exercise extra caution when changing directions.
- **13.** Never operate snowblower without guards and other safety protective devices in place.
- 14. Keep clear of chute discharge. This chute has the capability of throwing objects at high speeds and great distances. Heavier objects like rocks, frozen dirt, etc. will be projected farther than the snow. Injury, breakage or other forms of damage can occur. The operator <u>must</u> direct the discharge of snow into safe areas!
- **15.** Never operate machine at high transport speeds on a slippery surface.
- **16.** Use extra caution when backing up.
- **17.** Disengage power to auger and fan when transporting or when not in use.
- **18.** Never operate the snowblower without good visibility and lighting.
- **19.** Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protective devices such as earmuffs or earplugs.
- **20.** Never allow anyone near the work area.

#### SAFETY AND OPERATING (CONT)

#### THE TRACTOR

- 1. Read the tractor operator's manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
- 2. Do not permit anyone but the operator to ride on the tractor. There is no safe place for passengers.

#### **Operating the Tractor**

- 1. Never operate this or any other machine while under the influence or alcohol or illegal drugs or while taking prescription drugs that carry a warning against operating machinery or driving with their use.
- **2.** Never run the tractor engine in a closed building without adequate ventilation. Exhaust fumes are dangerous.
- 3. Adopt safe driving practices. Most tractors have a means of latching the brake pedals together. Be familiar with this feature. Independent braking may be needed for turning at low speeds. Always latch the brake pedals together before driving at high speeds.
- **4.** Drive at a safe speed relative to local conditions. Speed should be low enough for an emergency stop to be safe.
- **5.** Reduce speed prior to turns to avoid rollover. Keep speed reasonably low.
- **6.** Always keep the tractor in gear to provide engine braking when going downhill. Do not coast!
- 7. Never allow an open flame near the fuel tank or battery.
- 8. Use the safe shut-down procedures listed earlier. Before leaving the tractor unattended of when work is completed, take these precautions. Park the tractor and snowblower on level ground, place the transmission in neutral, set the parking brake, disengage the equipment drive, lower the equipment to the ground, place all levers including auxiliary control levers in neutral, shut off the engine and remove the ignition key.

- **9.** Never park the tractor on a steep (above gradual or moderate) slope.
- **10.** Do not attempt to operate on steep slopes. Avoid sudden uphill turns on steep slopes.
- 11. Handle fuel with care, as it is highly flammable.
- 12. Use approved fuel container.
- **13.** Never add fuel to a running engine or a hot engine.
- **14.** Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors. Replace fuel cap securely and wipe up any spilled fuel.
- 15. Never allow anyone to operate the snowblower until they have read the manual completely and are thoroughly familiar with basic tractor and snowblower operation.
- 16. Make sure the tractor is counterweighted as recommended by the dealer. Weights provide the necessary balance to improve stability, traction and steering. Refer to tractor's operator's manual for proper ballasting information.
- **17.** Always make sure all snowblower components are properly installed and securely fastened BEFORE operation.
- **18.** Never attempt to start the engine and/or engage snowblower drive while standing beside the tractor.
- **19.** Always start the engine from the operator's seat with all the transmission lever(s) and snowblower drive in neutral.
- **20.** DO NOT bypass the safety system by shorting across the terminals of the starter motor to start the engine. This may cause the tractor to move suddenly.
- **21.** If the safety start system does not work, consult your dealer immediately

#### SAFETY AND OPERATING (CONT)

#### **DURING OPERATION**

- 1. Do not allow passengers on the tractor or snowblower at any time. There is no safe place for passengers on this equipment. The operator MUST sit in the tractor seat while operating.
- **2.** Eye and ear protection is recommended when operating the snowblower.
- 3. Operate during daylight hours or when the area is well lit with bright artificial light. Operating with inadequate light poses additional safety concerns and should be avoided.
- **4.** If the snowblower strikes a foreign object the operation should be stopped and the snowblower inspected for damage. Only if no damage has occured should work resume.
- 5. Be especially observant of the operating area and terrain. Watch for holes, rocks, or other hidden hazards. ALWAYS inspect the area prior to operating snowblower.
- **6.** DO NOT operate snowblower near the edge of drop-offs or banks.
- 7. DO NOT operate snowblower on steep slopes as overturn may result.
- **8.** Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.
- **9.** Back the tractor up steeper slopes with blower off. Operate blower as you travel down the slope.
- **10.** Slow down before you change directions on any slope.
- 11. Use wheel weights on your tractor to increase stability on slopes.
- **12.** Never stand alongside the unit while the engine is running.

13. When work is complete or operator needs to shut down, follow these procedures. Park the tractor/snowblower on level ground, place the transmission in neutral, set the parking brake, disengage the PTO, lower the equipment to the ground, place all control levers in neutral, shut off the engine and remove the ignition key BEFORE leaving the operator's seat.

# Roll-Over Protection Structure (ROPS) (If so equipped)

- 1. DO NOT weld, drill or alter the ROPS. Damaged ROPS must not be straightened and reused. If damage does occur, consult your dealer.
- 2. If the ROPS is lowered or removed from the tractor for may reason, it must be erected and /or refitted immediately. Original bolts or equivalent replacements must be used and tightened to the correct torque.
- **3.** Your dealer and tractor manufacturer do not recommend usage of tractors with ROPS removed.
- 4. If a fold-down ROPS is used, the ROPS can be folded down for storage, but must be pinned in the upright position prior to and whenever operating the tractor.
- 5. Seat belt usage: With ROPS installed on the tractor it is imperative that the seat belt be installed, used and correctly adjusted, at all times. DO NOT use a seat belt if operating without ROPS.
- **6.** Additional safety equipment: A Fire Extinguisher and first aid kit should be kept readily accessible.

#### **SAFETY SIGN-OFF FORM**

Sheyenne Tooling and Manufacturing follows the General Safety Standards specified by the American Society of Agricultural Engineers (ASAE). Anyone who will be operating and/ or maintaining the compact tractor snowblower must read and clearly understand all safety, operating and maintenance information presented in this manual.

Do not operate or allow anyone else to operate this equipment until such information has been reviewed. Annually review this information before the season start-up.

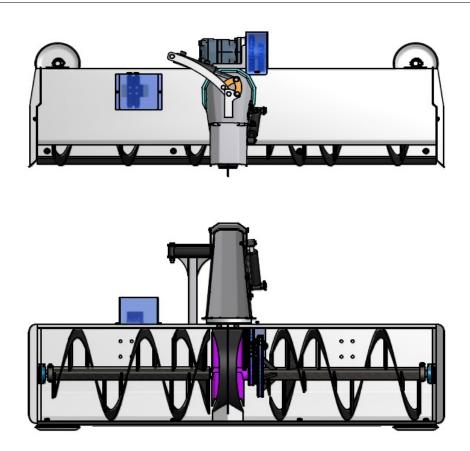
Make these periodic reviews of SAFETY and OPERATION a standard for all of your equipment. We feel that an untrained operator is unqualified to operate this machine.

A sign off sheet is provided for your record keeping to show that all personnel who will be working with the equipment have read and understand the information in the operator's manual and have been instructed in the operation of the equipment.

#### SIGN-OFF FORM

DATE	EMPLOYEES SIGNATURE	EMPLOYERS SIGNATURE

The 600 CT snowblower was redesigned in the fall of 2011 and the 500 CT snowblower was redesigned in the fall of 2012. The top and front views below show the earlier design. If a customer has a blower with this drive system, Sheyenne Manufacturing has archived owners manual masters which can be reproduced for those models. The two main differences of this design were; 1) it is lower in height and 2) it did not have a cross shaft drive.



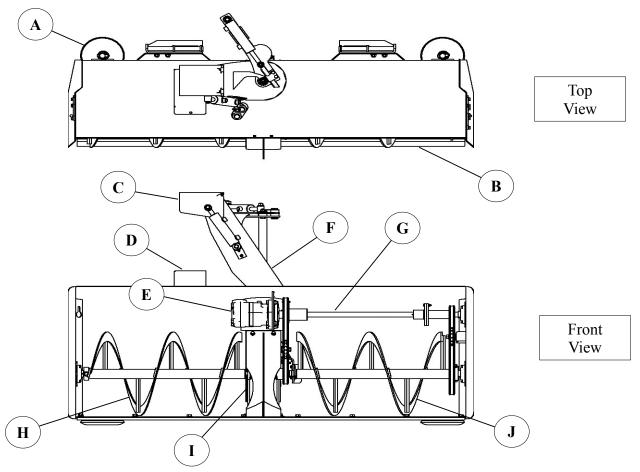
### **Machine Components**

Skid Shoe
Cutting Edge
Deflector
Directional Control Valve
Orbital Motor
Chute
Right Hand Auger Section with LH Flighting
Impeller
Left Hand Auger Section with RH Flighting

#### MACHINE COMPONENTS - MODELS 500 & 600 CT

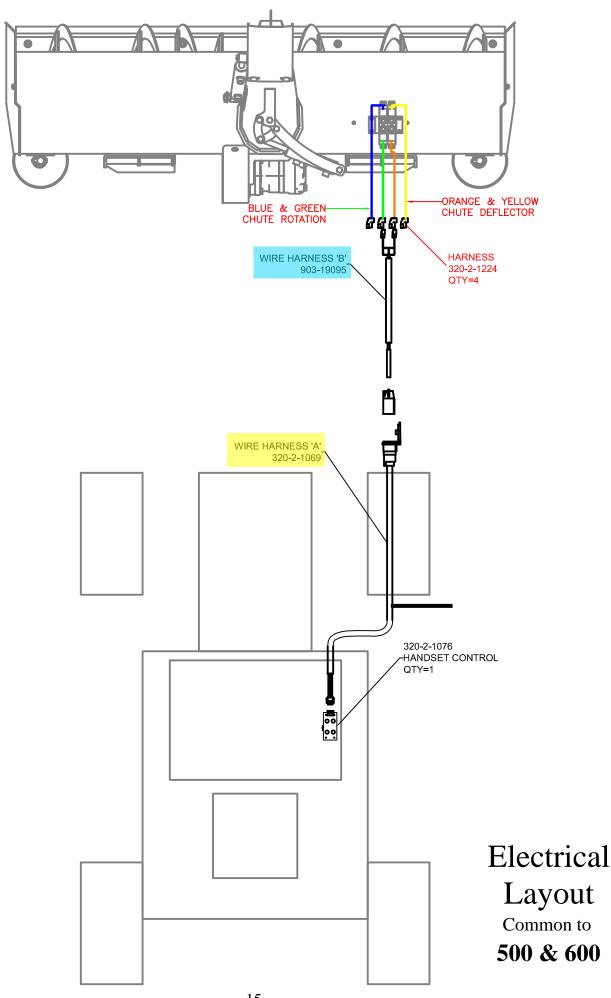
The Compact Tractor Snowblower is designed and manufactured to efficiently clear snow from roads, driveways and parking lots. The snowblower is available in two widths, 60 and 74 inches. A single orbital motor drives the auger sections and the impeller. The orbital motor is driven by the PTO pump of the tractor.

The auger sections and the impeller operate on a concentric or common shaft. This keeps the unit compact. The cutting edge is replaceable. Adjustable skid shoes control depth. The snowblower can be mounted by either quick attach or by pins. The chute and the deflector are both controlled and operated from the tractor seat by hydraulic cylinders.



## **Machine Components**

A	Skid Shoe
В	Cutting Edge
C	Deflector
D	Directional Control Valve
E	Orbital Motor
F	Chute
G	Cross Shaft
Н	Right Hand Auger Section with LH Flighting
I	Impeller
J	Left Hand Auger Section with RH Flighting



#### **HOOK-UP**

#### PHYSICAL

Tractor snowblower The Compact is manufactured with a universal quicktach mounting plate. This allows the snowblower to be attached to most makes and models of tractors. Engage the angle plate in the mating top bracket, lift and tilt back. The locking pins need to align with their mating holes. Completely engage the pins and lock the handles down. As an option the mounting plate can be replaced by a pin mounting.

#### **HYDRAULIC**

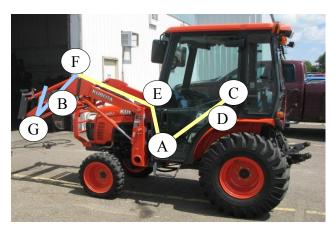
The snowblower is powered by a pair of hydraulic lines, all with flat faced connectors. Both models uses 84 inch hoses. Hoses are supplied with each machine. These hoses will fit most tractor makes and models. Some exceptions may require special hoses. Routing hoses will involve some choices and decision making. It's probably a good idea to follow existing hydraulic lines on the loader arms as much or as long as possible. Once away from those factory lines use good judgment to put slack at points where loader or bucket movement require. Avoid places were pinching or other possible damage to the hoses may occur.

One orbital motor turns hydraulic flow and pressure back to rotary power to drive the auger and impeller. Hydraulic pressure is also used to operate cylinders for the chute rotation and the deflector. All hydraulic functions require that the tractor PTO be engaged to start flow.

#### **ELECTRICAL**

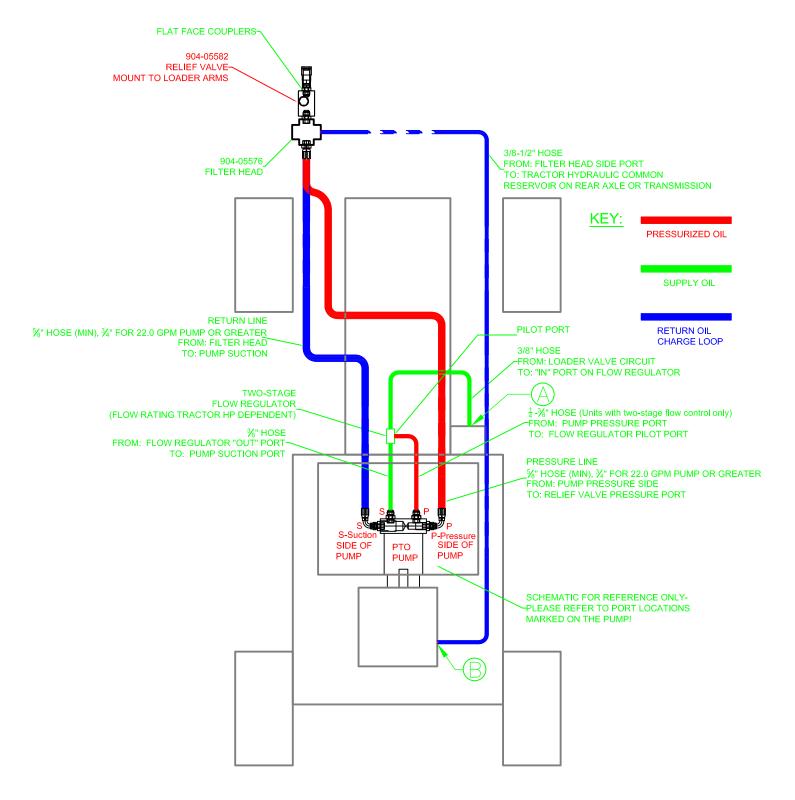
The two hydraulic cylinders mentioned in the above paragraph are controlled electrically. A handset and wiring harnesses are included with the snowblower. Like the hydraulic lines, the electrical wiring harnessed will need to be routed for your particular tractor make and model. The top view, line drawing on page 14 and **Figure 1** on **this** page will aid you.

Fig. 1 WIRE HARNESS ROUTING



These instructions are general in nature and specifics will be determined by the person installing the harness. Point C is the location of the handset or control box shown on page 14. Wiring harness A (vellow in diagram and Fig. 1) needs to run out of the tractor and along the loader arm. Tractors with cabs may provide a port for cables and harnesses, check for this accommodation. The nine socket connector of harness A plugs into the handset. At point D a red and a black wire break-out of the main harness. Connect these wires to positive and ground respectively. Route harness approximately as shown in Figure 1. Provide enough slack at pivot point E to prevent pulling when loader arms are raised. Inversely, too much slack may cause the harness to become pinched in pivot points. Point F is the nine pin all-weather plug-in which has a mounting bracket provided. Wiring harness B is blue in the diagram and Fig. 1. Point G is another pivot point were some slack should be given for the Excess slack may cause the bucket tilting. harness to drag on the ground when loader arms are low. From pivot point G, wiring harness B needs to connect to the four harnesses on the snowblower.

## COMPACT TRACTOR HYDRAULIC SYSTEM



## **Common**

#### **HYDRAULIC SYSTEM PRINCIPLES OF OPERATION**

Refer to COMPACT TRACTOR HYDRAULIC SYSTEM on preceding page. Oil is supplied to the system at the loader circuit at point A. Oil flows to the flow regulator, which controls the amount of oil that is taken from the tractor. From here it travels to the suction port of the pump, where the pump "steps up" the flow. This oil is then pumped through the relief valve block to the female flat faced coupler on its way to run the snow blower. On the way back from the snow blower, the oil passes through the relief valve block and is filtered before returning to the suction side of the pump. Meanwhile, the same amount of flow (now filtered) that was taken from the tractor is returned to the tractor trans/axle by the hose coming out the side port of the filter head. On units equipped with a two-stage flow control, the other line running from the pump pressure port is used to signal the two-stage flow control when the pump is engaged by the operator.

#### INSTALLATION INSTRUCTIONS FOR HYDRAULIC SYSTEM

It is critical where the oil is taken from the tractor (at point A on your diagram). Find a pressurized oil line between your tractor auxiliary pump and your loader circuit. Intercept pressurized oil out of the pump before the oil reaches any other system. To make sure you have found the correct location, you can put a pressure gauge at this location. Any operation from the cab should make the pressure go up such as running of the loader, operation of the 3-point hitch, and operation of remote couplers. Most of the time, you will either be able to place a tee or tap into a banjo type of joint fitting to obtain your pressurized oil.

Place your flow regulator anywhere between locations A (supply oil) and the suction port of the pump. Measure the hose lengths you need. You will need (6) different hoses made and routed as shown in the diagram on units equipped with two-stage flow control. (5) hoses are needed on units without the two-stage flow control.

A common mistake in installation is placing the hoses on the wrong port of the pump. The pump ports should be marked as to which is the suction or inlet.

Also, make sure the pressure line goes to the female coupler of the relief valve. The return line goes from the filter head to the suction port of the pump.

The drain line coming out the side of the filter head must go the trans/axle reservoir, noted as point B on your diagram. Usually you can tap into a drain plug in the rear axle or the bottom of the transmission. You might also find a pipe plug on the side of the transmission.

The hoses should be routed to follow the loader pivot points. Make sure the hoses do not crush or stretch with the full range of motion of the loader. Always install the filter element pointing toward the ground, making sure the tires will not hit your filter on uneven terrain.

#### SPECIAL INSTALLATION INSTRUCTIONS FOR PUMP

The pump will be supplied with mounting brackets for the rear PTO kit, and additional brackets when ordering the mid-PTO kit. When you tighten the bracket, make sure the bracket is holding the weight of the pump or pump/gearbox, and not misaligned. Improper alignment can cause damage to pump or tractor gearbox seals.

#### FINAL CHECKLIST:

- 1. Run tractor at idle for couple minutes before engaging PTO. This allows loop flow to fill all lines.
- 2. Start PTO at idle and check for: leaks on tractor, operation of chute and deflector, excessive noise, proper running of chains. Chute and deflector may need to be placed under load before they will move.
- 3. Run blower at full RPM, check for leaks, and blow snow
- 4. Tighten chains after running in snow after 1-2 hours of operation.
- 5. Normal hydraulic oil temperature is 160-200 deg F. This will feel hot to the touch, and will melt snow and have some water/steam on the hydraulic motors and lines. If unit seems excessively warm, check temperature of hydraulic system with infrared temperature gun.

#### **OPERATION**

#### **OPTIMUM PREFORMANCE**

Optimum snowblower performance is only achieved after 10 to 15 minutes of operation. In cold weather it is particularly important that the hydraulic oil be warmed up and flowing freely before evaluating performance.

Snowblower performance is highly sensitive to hydraulic pressure and flow. The higher the pressure and flow (while still remaining below 3000 psi), the higher the snowblower performance will be.

#### GENERAL PREPARATION

- 1. Read the operator's manual carefully before using the tractor and snowblower. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- **2.** Wear adequate winter outer garments while operating equipment.
- 3. Make sure the snowblower is clear of snow and/or other debris before engaging the hydraulic system.
- **4.** Make sure the auger and fan operate freely.
- **5.** Adjust the skid shoes so the snowblower runs level.
- 6. To obtain optimum performance of the snowblower, the oil in the tractor hydraulic system must be warmed up for 10 to 15 minutes. Both the tractor and the snowblower should be run at reduced RPM and power until warmed up.

#### **OPERATING CONTROLS**

#### **Hydraulic Deflector Control**

**Important:** The snowblower drive system must be engaged to move the hydraulic deflector. The system has more speed and power for deflector operation when blowing snow.

To adjust the angle of deflector, push or depress the upper left switch to lower the deflector. Push the upper right switch to raise it. If the operation is not as described, reverse the switch wires.

#### **Hydraulic Rotation Control**

**Important:** The snowblower drive system must be engaged to rotate the hydraulic chute. Here again, more speed and power is available for rotation when blowing snow.

To turn the chute left (counterclockwise), push or depress the lower left switch. Push the lower right switch to move the chute to the right (clockwise). If the operation is not as described, reverse the switch wires.

#### GROUND SPEED

Ground speed or forward travel controls the amount of snow fed into the snowblower. Snow weight, density and depth can vary widely. Light, dry, moderate depth snow can be moved at higher speeds. Heavy, wet, deep or compacted, or icy snow will all require reduced speed. Let the snowblower work it's way through deep snow. When conditions are severe, very low speed will be necessary. The snowblower is not designed to push snow. If snow begins to pile-up, cut back on ground speed. Overloading with wet snow can cause clogging in the chute and/or shear pins breaking.

Use full engine RPM when blowing wet, sticky snow. Low engine RPM contributes to chute clogging.

WARNING: To avoid serious personal injury: Do not use hands or feet to unclog chute or any other part of the machine. Do not attempt to clear clogged chute of snow chute while tractor engine is running. If the chute clogs, disengage the drive shaft, shut off the tractor engine, remove the ignition key, wait for all movement to stop, and then clear the snow from the chute. Use a long piece of wood (approx. 3 feet) to unclog the blower.

A

<u>WARNING:</u> To avoid serious injuries: Keep clear of rotating parts. Do not put hands or feet under, or into any part of the snowblower with engine running.

#### SKID SHOE ADJUSTMENT

Adjust the skid shoes so the the snowblower runs level and /or parallel to the grounds surface. Both skid shoes should be adjusted to the same height. Adequate clearance should be provided to prevent cutting edge from picking-up stones. Adjustment is done by moving washers and spacers above or below the mounting tube.

IMPORTANT: The fan and auger are driven by a hydraulic motor. Both the tractor relief valve and two shear bolts protect the snowblower. More specifically, model 600 blowers built after September 2011 and model 500 blowers built after October 2012 have shear bolts on the top cross shaft for the fan or impeller drive sprockets and the auger drive. When an object blocks the fan or the auger, the relief valve bypasses or the shear bolt(s) break and the snowblower stops. Once the object is removed and shear bolts are replaced, the snowblower can be restarted.

**CAUTION:** Continuous running of the snowblower at or over relief valve setting is inefficient, and will cause hydraulic system temperature to rise.

In deep snow it is good practice to cut the top layer first, back-up, then go forward to take another layer.

To transport or travel on roads, disengage the hydraulic system and raise the snowblower to a reasonable height.

#### **MECHANICAL SPECIFCATIONS**

Feature	5 Foot Specifications	6 Foot Specifications
Working Width	60"	74"
Working Height	28"	28"
Single/Dual Auger	Single	Single
Auger Diameter	18"	18"
Flighting Thickness	1/4"	1/4"
Fan Diameter	18"	18"
Cutting Edge, Replaceable	1/2" x 4" x 56.6" Long	1/2" x 4" x 71" Long
Main Hydraulic Hoses	3/4" I.D.	3/4" I.D.

### MAINTENANCE

# ALWAYS USE GENUINE REPLACE-MENT PARTS

- 1. Keep the tractor and snowblower properly maintained.
- adjustments, or replacing worn parts be sure proper shut down has occurred. Park the tractor and snowblower on level ground, place the transmission in neutral, set the parking brake, disengage the equipment drive, lower the equipment to the ground, place all control levers in neutral, shut off the engine and remove the ignition key and allow the rotating parts to stop BEFORE making any adjustments or repairs.
- 3. Roller chains in drive applications loosen during use. The chain should be checked after the first hour of use and tightened if needed. Check chain tightness periodically.
- 4. To avoid injury, do not adjust, unclog or service the snowblower with the tractor engine running. Make sure rotating components have completely stopped before leaving the operator's seat.
- 5. Keep the tractor/snowblower clean. Snow and ice build-up from thawing and refreezing can lead to malfunction or personal injury.
- **6.** Wear eye protection when cleaning or servicing the snowblower.
- 7. Service the unit in safety: DO NOT service the tractor while the engine is running or hot, or if the unit is in motion. Always lower snowblower to the ground. If necessary to service unit with blower raised, securely support with stands or suitable blocking before working underneath. Do not rely on hydraulically supported devices for your safety. Hydraulics can leak down either slowly (settling) or quite suddenly, or be accidentally lowered.

- **8.** Do not attempt to service machine, clear obstructions or unplug blockages with the engine running. Always shut off engine and allow all motion to cease.
- 9. The manufacturer will not claim responsibility for modifications or nongenuine parts and/or accessories and any damages as a result of their use.
- **10.** Make sure all shields and guards are securely in place following all service, cleaning, repair work.
- 11. Do not modify or alter this equipment or any of its components or operating functions. If you have questions concerning modification, consult your dealer.
- **12.** Do not operate a unit, which is defective or has missing parts. Make sure that all recommended maintenance procedures are completed before operating the unit.
- **13.** Check all controls regularly and adjust where necessary. Make sure that the tractor brakes are properly adjusted.
- **14.** Periodically check all nuts and bolts for tightness, especially wheel hub and rim nuts.
- **15.** Snowblower fan and auger must be checked for tightness. Remove any twine, wire, etc. that may have wrapped on the fan or the auger.

WARNING: To avoid serious personal injury, wear proper hand and eye protection! Escaping hydraulic/diesel fluid under pressure can penetrate the skin! Very serious infection can occur when petroleum products enter the blood system. Seek medical attention immediately! Do





for leaks. Use a piece of cardboard or paper to search for leaks.

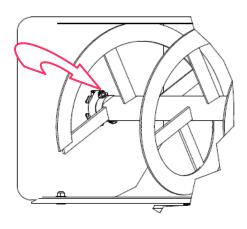
# MAINTENANCE (cont.)

17. Stop engine and relieve hydraulic pressure before connecting or disconnecting lines. Tighten all connections before starting engine or pressurizing lines.

### 18. SHEAR PROTECTION

The compact tractor snowblower is shear protected in multiple ways.

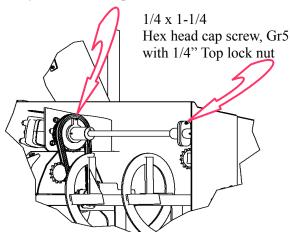
First by two 3/8 X 3-1/2", Grade 5, Hex Head capscrews located at each end of the auger shaft. See diagram below.



Secondly, by the hydraulic relief valve which is normally mounted on the loader arm.

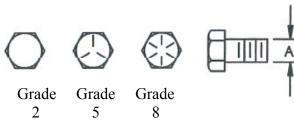
Thirdly, current, redesigned snowblower models have shear bolts located on the top cross shaft.

10-24 x 1-1/4 Socket head cap screw, Gr8 with 10-24 NC nylon lock nut, Zp



# **BOLT TORQUE SPECIFICATIONS**

The table shown below gives correct torque values for various bolts and cap screws. Tighten all bolts to the torques specified in this chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same grade or strength bolt. Bolt and cap screws are identified by their head markings.



**Torque Specifications** in Pound-Feet

Bolt Diameter "A"	SAE 2	SAE 5	SAE 8
1/4"	6	9	12
5/16"	10	19	27
3/8"	20	33	45
7/16"	30	53	75
1/2"	45	80	115
9/16"	70	115	165
5/8"	95	160	220
3/4"	165	290	400
7/8"	170	420	650
1"	225	630	970

Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless specified in this manual. When using locking elements, increase torque values by 5%. Figures apply to both course and fine threads.

### **LUBRICATION**

The Compact Tractor snowblower has two grease fittings. They lubricate the bearings on each end of the auger. Grease a new snowblower with 1 or 2 shots of grease. Greasing during the season will be determined by hours of use. Greasing should be done at both the beginning and end or each season.



# TROUBLE SHOOTING

The Compact Tractor snowblower is both innovative and simple. It gives you a loader mounted, full tractor horsepower snowblower, in a compact design.

In the following section, we have listed possible problems, causes and solutions to the problems that you may encounter. If you have a problem that is not listed or too difficult to solve, even after having read through this section, please call your local Sheyenne Manufacturing dealer. Before you call, have this Operator's Manual and the serial number from your machine ready.

PROBLEM	CAUSE	SOLUTION							
Snowblower does not run	Hydraulic couplers not engaged	Push couplers in until they engage							
	No hydraulic pressure to the snowblower	Engage the tractor PTO							
	Blockage in auger or fan	Remove ice, snow or any foreign objects from auger or fan							
Snowblower runs in reverse	Incorrect hydraulic hook- up	Reverse hydraulic couplers.							
Chute (spout) will not turn. Deflector wouldn't operate	Ice and/or snow build-up	Remove ice and/or snow. Chute and Deflector will operate better when snow is being blown, hydraulic pressure and flow cause this effect.							
	Low voltage	Check for 12 volts at <u>switch</u> and <u>coils</u> . Charge or change the battery							
	No voltage	Check ground wire. Correct continuity problem							
	No or low voltage on hydraulic block	Replace coil							
	Handset breaker tripped	Reset breaker							
Chute (spout) turns as soon as hydraulics are enabled	Dirt or bad O-ring in directional control valve in hydraulic block	Clear dirt or replace O-ring							
Cutting edge 'digs in'	Skid shoes too high	Adjust skid shoes down or raise the loader arms							

# HYDRAULIC SYSTEM TROUBLESHOOTING GUIDE

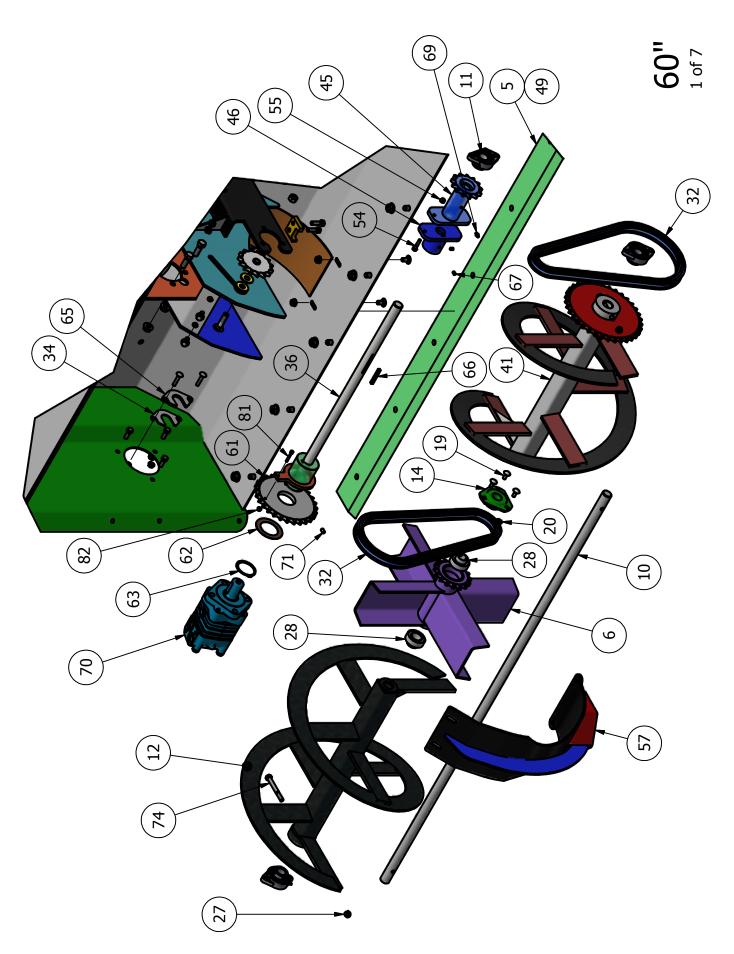
PROBLEM	CAUSE	SOLUTION
		Ensure arrow on flow control is pointing
Snow blower		toward pump suction; on variable flow units
does not run	Flow control installed backwards	the out port faces pump suction
	PTO not engaged	Engage PTO
Hydraulic system		Remove blockage and/or install larger
overheating	Restriction in supply or drain line	diameter hose and fittings
	Faulty flow control valve	Repair or replace
	Plugged oil filter	Repair or replace
	Incorrect flow control or orifice	Replace with correct one
	Supply oil was taken from incorrect	See installation instructions for correct
	location	location to take supply oil from tractor
		Ensure relief valve does not open until system
	Faulty relief valve	pressure is 3500 psi
		Measure flow at pump or motor when oil is
Poor		warm and when oil is hot. Flow should not be
performance of		reduced by more than 1-5% when hot and
snow blower	Worn pump or motor	under load.
	Incorrect size of pump. Motor on	
	tractor should pull down as blower is	
	placed under load	Install correct pump
	Incorrect installation of hoses and/or	See installation instructions for correct
	hydraulic components	location
	Impeller blades are bent	Repair or replace



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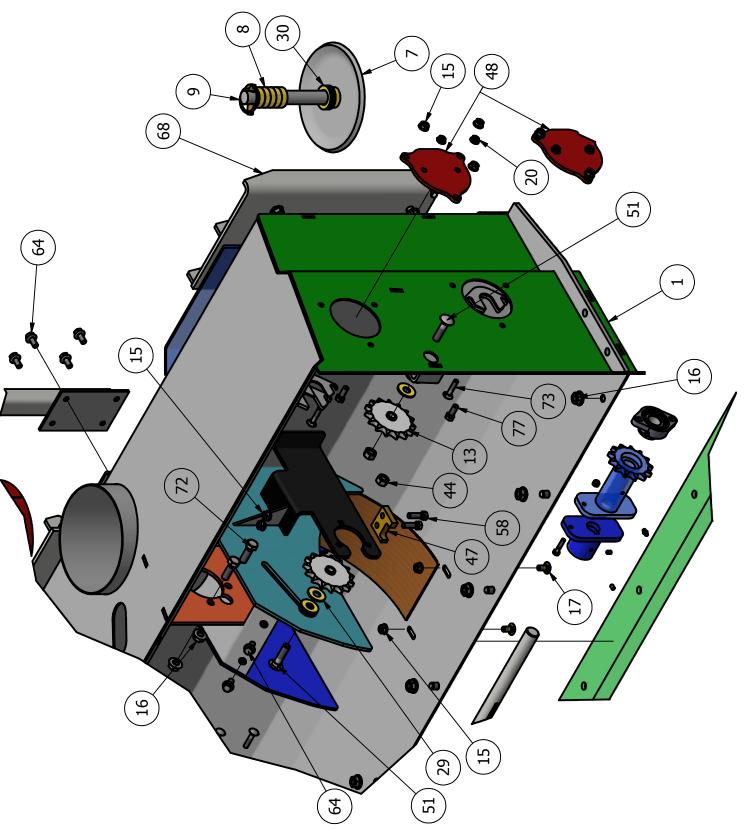


		PARTS LIST	l. l			PARTS LIST	l. l			PARTS LIST	JST
ITEM	I QTY	Y PART NUMBER	DESCRIPTION	ITEM	QT	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
П	П	320-2-1304	MF WELDMENT, CT	30	10	6905346	WASHER	29	2	320-3-2022	RACK GUIDE
2	1	320-2-1139	DEFLECTOR WELDMENT	31	1	320-3-1985	SHIELD, CONTROL VALVE	09	1	320-3-2023	RACK GUIDE, MIDDLE
ε	П	320-2-1103	CYLINDER PIN WELDMENT	32	2	903-03139 &	#60-1 Roller chain with	61	-	320-3-1954	DRIVE SPROCKET,
4	2		HYD. CYLINDER		5	903-03062/89	connector link & half link				IMPELLER SHEAR
2	П	320-3-2040	60" CUTTING EDGE	33	9	900-06135	1/4" SERR. FLANGE NUT	62	<del>-</del>	320-3-1955	THRUST WASHER,
9	1	320-2-1303	FAN WELDMENT	34		320-3-1791 - QTY	SHIM, 2 BOLT 205-16				IMPELLER SHEAR
7	2	320-2-1187	SKID PLATE WELDMENT		_	varies as required	FLANGE BEARING	63	1	903-15693	External Retaining Rings 2"
8	12		BUSHING, SPACER	35	1	900-23043	3/16 X 1-1/2 COTTER PIN	64	9	900-03436	3/8 X 3/4 SERR FLANGE
6	2		7/16 x 1 3/4 Lynch Pin	36	Η	320-2-1305	IMPELLER SHEAR WLDT				BOLT GR5
10	1	320-3-2041	CENTER DRIVE SHAFT	37	1	320-3-1983	ROTATION CHUTE RACK	9	m	320-3-1790 - QTY	SHIM, 2 BOLT 205-16
11	3	901-01346	FLANGE BRG 2 BOLT	38	П	320-2-1295	DISCHARGE CHUTE CT			varies as required	FLANGE BEARING
			SALFH4 205-16GH4	39	1	320-3-2065	GUIDE CAP	99	П	320-3-1194	KEY, 1/4 X 2
12	1	320-2-1307	WELDMENT, AUGER LH	40	1	320-3-2018	SPACER, CHUTE ROTATE	29	2	900-16329	SET SCREW, 1/4NCX3/8
			FLIGHTING	41	Η	320-2-1306	AUGER WLDT, RH	89	1	320-1-0161	BOBCAT QUICK-TACH KIT
13	2	320-3-1286	SPROCKET, 6015 IDLER				FLIGHTING	69	1	905-15024	1/4-28 NF ST. GREASE
14	н	901-01347	FLANGE BEARING	42	1	320-3-2019	SPACER, CHUTE ROTATE				ZERK
			FHPFTZ205-16	43	1	900-01231	1/2 - 13 X 2-1/4 HHCS GR 5	70	-	904-05578	HYDRAULIC MOTOR
15	16	5 900-06139	3/8 NC SERR FLANGE NUT	44	3	900-06504	1/2" NC TOPLOCK NUT				OMS100
16	11		1/2 NC SERR FLANGE NUT	45	1	320-2-1297	SHEAR, DRIVEN	71	7	900-16361	5/16 NC X 1/2 SET SCREW
17	7	900-01694	3/8NC X 3/4 CARRIAGE	46	1	320-2-1296	TUBE SHEAR W/A - KEYED				CUP PT
			BOLT	47	П	320-3-2020	CHAIN STRIPPER	72	4	900-01225	1/2NC X 1-1/2 HEX BOLT G5
18	9		$1/4-20 \times 1/2$ GR 5 HHCS	48	3	320-3-1938	KEEPER, BEARING - 1/4"	73	9	900-01671	Round Head Square Neck
19	2	900-01668	5/16 X 3/4 SHRT NECK	49	9	S8FH.5X1.25	Hexagon Socket Flat				Bolt 5/16-18 UNC - 1-1/2
			CARR BOLT GR5				Countersunk Head Cap	74	7	900-01127	Hex Bolt - UNC (Regular
20	11	1 900-06137	5/16 NC SERR FLANGE NUT				Screw 1/2 X 1-1/4				Thread - Inch) 3/8 X 3-1/4
21	1	320-3-1428	CHUTE DEFLECTOR PIN	20	1 3	20-2-1217	DIRECTIONAL CONTROL	7.2	-	900-01233	1/2-13 X 2-1/2 GR 5 HHCS
22	7		ROLL PIN, 1/8 X 3/4				VALVE				ZP
23	10		3/4 SAE FLAT WASHER	21	7	900-01753	1/2NC X 2 CARRIAGE	9/		320-3-2068	PINION, CHUTE ROTATE
24	2		3/8 NC X 2.5 HEX BOLT G5				BOLT GR5	77	12	900-01109	3/8-16 X 1 GR 5 HHCS
25	Н	320-3-1450	CYLINDER BUSHING	52	1	900-01415	3/4-10 X 3-1/2 GR 5 HHCS	78		900-06276	1/2-13 JAM NUT ZP
56	9	900-11178 - QTY	3/8 SAE FLAT WASHER	23	7	900-06147	3/4 - 10 FLANGE NUT	79	7	900-06584	Prevailing Torque Type Hex
		varies as required		54	1	900-01011	1/4NC X 1-1/4 HEX BOLT				Nut 3/8"
27	Υ		3/8 TOPLOCK NUT- UNC				GR5	80	<del>-</del>	900-01701	3/8NC X 2-1/2 CARRIAGE
28	7	901-01348	CYLINDRICAL BEARING	22	1	900-06496	1/4-20 TOPLOCK NUT				BOLT G5
		$\neg$	FHSR205-16	26		320-2-1294	MOUNT, CHUTE ROTATE	81	<del></del>	S8SH10-32X1.25ZP	Hexagon Socket Head Cap
29	11	L 900-11035 - QTY	1/2" USS FLATWASHER	22	- 1	320-2-1301	IMPELLER GUARD				Screw ASTM A574 10-32 X
	_	varies as required		28	2	00-01111	3/8-16 X 1-1/4 GR 5 HHCS		7		1-1/4"
								85	<del>-</del>	900-06579	Prevailing Torque Type Hex
									1		NUC 110. 10 32

**60''** 2 of 7

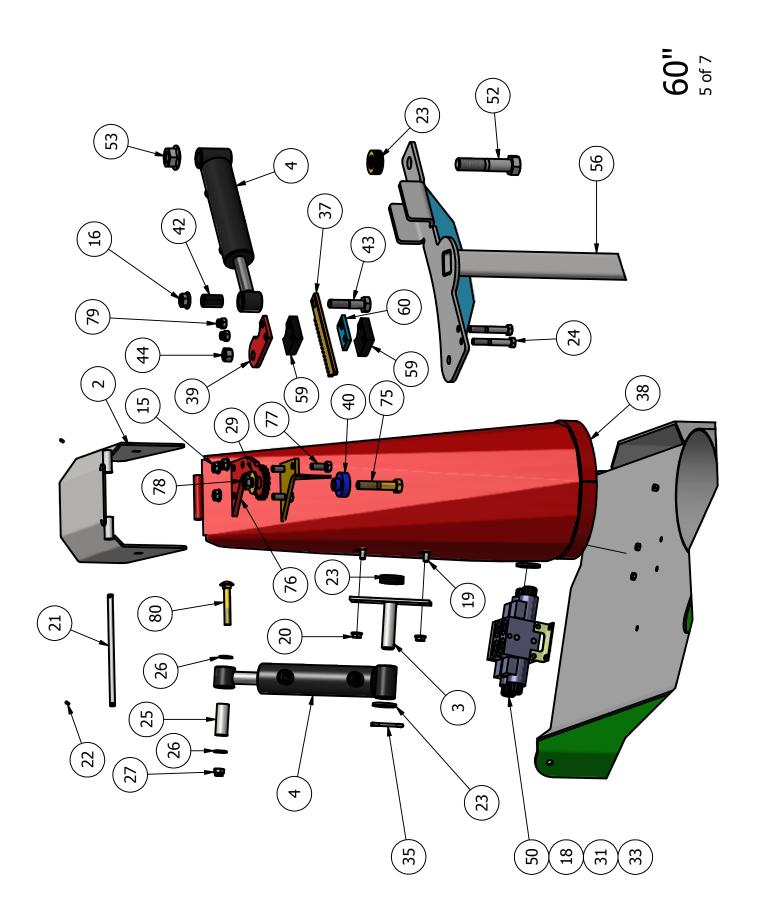
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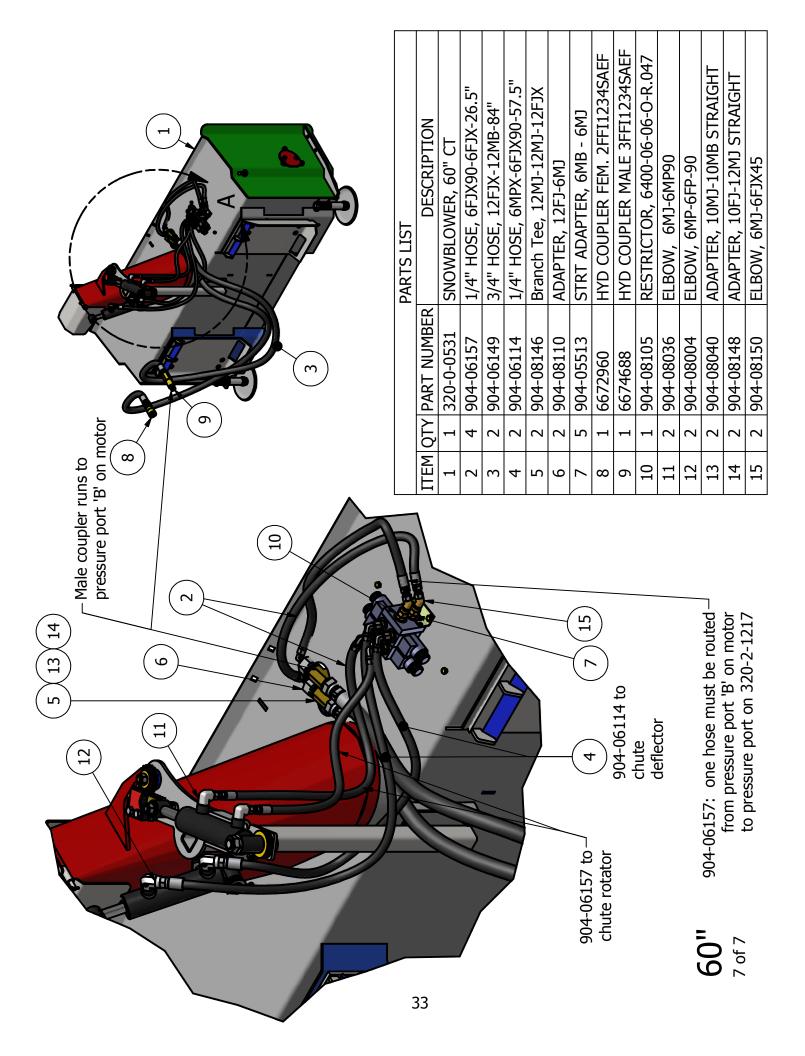
DESCRIPTION         ITEM QTY         PART NUMBER         DESCRIPTION         ITEM QTY           WELDMENT, CT         30         10         6902346         WASHER         59         2           JECTOR WELDMENT         30         10         6902346         WASHER         60         1           JECTOR WELDMENT         32         10         6902-3139 & #60-1 Roller chain with         61         1           OLTURING EDGE         33         6         900-03139 & #60-1 Roller chain with         61         1           WELDMENT         32         913-03052/89         connector link & half link         61         1           WELDMENT         33         6         900-023043         316 X-1-1/2 COTTER PIN         64         6         1           HAING, SPACER         35         1         300-23043         316 X-1-1/2 COTTER PIN         64         6         1           SX 1 34 Lynch Pin         35         1         320-2-1295         DISCHARGE CHUTE RACK         65         1           HER DMEY SHAFT         38         1         320-2-1295         DISCHARGE CHUTE RACK         65         1           MCESTR BRAING         41         1         320-2-1295         DISCHARGE CHUTE RACK         65			PARTS LIST	LIST			PARTS LIST	LIST			PARTS LIST	LIST
1         3202-21304         MF WEDNERN, CT         30         10 6005346         WASHER         59         2           1         3202-21303         CYLINDER PUNELDNERM         32         10 300-21398         SHIELD, COWITOL VALVE         60         1           1         3202-21303         CYLINDER PUNELDNERM         32         1 300-31398         #601-18 Roller chain with         61         1           1         3202-21303         FAN WELDNERM         34         3 320-31398         SMORTA ROLL ROLL CHAINER         61         1           1         3202-21305         HAN DEDATE WELDNERM         34         3 320-3139         SMORTA ROLL ROLL ROLL ROLL         63         1           1         3202-21305         MCD DATE WILL         35         1 300-3039         SMORTA ROLL ROLL ROLL         63         1           1         3202-21445         BUSHING, SPACE MELDNERM         36         1 320-31305         IMPELIER SPEAR WULD         65         1           1         3202-31445         BUSHING, SPACE ROLL         38         1 320-31305         IMPELIER SPEAR WULD         66         1           1         3202-31446         SALFHA ZOLL         31         310-3130         IMPELIER SPEAR WULD         66         1	ITEM		Y PART NUM		ITEM	QTY	PART NUMBER		ITEM	QTY	PART NUMBER	DESCRIPTION
13 202-21199         DEFLECTOW WELDMENT         31         1 302-31985         SHIELO, CONTROL, VALVE         60         1           21 320-2-1103         CYLINDER PIN WELDMENT         32         302-03-0389         460-1 Roller chain with         61         1           21 302-2-3040         BOY CYLINDER         33         6 900-06138         1/4" SERRE FANGE NUT         62         1           21 302-2-1307         FAIN WELDMENT         34         3 202-3-1993         1/4" SERRE FANGE NUT         62         1           22 302-2-1307         FAIN WELDMENT         35         1 302-3-1993         1/4" SERRE FANGE NUT         65         1           22 302-2-1307         BUSHING SPACER         35         1 302-2-1983         BOTATION CHITE RACK         65         3           23 302-2-1307         WELDMENT, ALGRER RIC 2 BOLT         38         1 3202-1983         BOTATION CHITE RACK         65         1           24 302-3-1307         WELDMENT, ALGRER RIC 2 BOLT         38         1 3202-1983         BOLTAGE CHITE CT         65         1           25 302-2-1307         WELDMENT, ALGRER HANGE RUL         40         1 3202-1983         BOLTAGE CHITE ROLL         67         1           26 300-01034         BOLTAGE BORNER         40         1 3202-1993	н	1			30	10	6905346	WASHER	26	2	320-3-2022	RACK GUIDE
1 320-2-1103	7	1		DEFLECTOR WELDMENT	31	1	320-3-1985	SHIELD, CONTROL VALVE	09		320-3-2023	RACK GUIDE, MIDDLE
2         300-51206         HYD. CYLINDER         31 60 900-06135         connector link & bulf link         6 1 300-32040         60" CUTINIDE BOE         1         320-2-1387         SKD PATE WELDMENT         34 3 20-3-1791         177 5HIP, 2 BOLT 705-16         63 1         1         1         330-2-1387         SKUD PATE WELDMENT         34 3 20-3-1791         177 5HIP, 2 BOLT 705-16         63 1         1         320-2-1305         18 10 10 10 10 10 10 10 10 10 10 10 10 10	3	1		CYLINDER PIN WELDMENT	32	2	903-03139 &	#60-1 Roller chain with	61	П	320-3-1954	DRIVE SPROCKET,
1 320-3-1309   60° CUTTING EDGE   3   5   910-06135   1/4° SERR, FLANGE NUT   62   1   1   320-3-1303   5   FAN WELDHENIT   3   3   20-3-1791 QTY SHIM, 2 BOLT 20-16   63   1   1   320-3-1445   BUSHING, SPACER   3   1   910-23043   3   1   1   1   1   1   1   1   1	4	2		HYD. CYLINDER			903-03062/89	connector link & half link				IMPELLER SHEAR
1 320-2-1303         FAN WELDMENT         34         3 20-3-1791 - QTY         SHIN, 20-1206         63         1           1 320-2-1387         SKID PATE WELDMENT         35         1 900-23043         31.6 X 1-1/2 COTTER PIN         64         5         1           2 300-23012         7/16 x 1 3/4 Lynch Pin         36         1 320-2-1305         IMPELIER SHEAR WLDT         65         3           1 320-3-2041         FLANGE BRG 2 BOLT         37         1 320-2-1305         IMPELIER SHEAR WLDT         65         1           1 320-3-1286         FLANGE BRG 2 BOLT         39         1 320-2-1305         IMPELIER SHEAR WLDT         66         1           1 320-3-1286         FLANGE BRG 2 BOLT         39         1 320-2-1305         GINCE CAPUTE COLF         66         1           2 301-31286         FLANGE BRAING         40         1 320-2-1305         GINCE WLDT, RH         66         1           2 300-31286         SAPRACKER, GULS IDLER         41         1 320-2-1306         GINCE RWLD, RH         66         1           2 300-3128         SPROCKER, GULS IDLER         42         1 320-2-1309         SPACER, CHUTE ROTATE         66         1           1 900-06139         38 NR X 3/4 CARRIAGE         41         1 320-2-1299         SPERER,	2	1		60" CUTTING EDGE	33	9	900-06135	1/4" SERR. FLANGE NUT	62	П	320-3-1955	THRUST WASHER,
1         320-2-1187         SKID PATE WELDMENT         Varies as required         FLANGE BERRING         63         1           1         320-2-1185         SKID PATE WELDMENT         35         1         300-23043         31/6 x 1-1/2 COTTER PIN         64         6           1         320-3-2041         CENTER DRING SHAFT         35         1         320-2-1363         IMPELIER SHEAR WIDT         65         3           1         320-3-2041         CENTER DRING SHAFT         37         1         320-2-1363         INPELLER SHEAR WIDT         65         1           1         320-3-2041         CENTER DRING SHAFT         39         1         320-2-1363         INPELLIR SHEAR WIDT         65         1           1         320-3-1286         SALPHA 30-6-166H4         40         1         320-3-2018         SPACER, CHUTE ROTATE         65         1           2         320-3-1286         SPROCKET, GOLIS DLER         41         1         320-3-1018         FALCHTING         69         1           1         900-0139         3/8 NC SERR FANGE NUT         42         1         320-2-1296         FALCR ROTACK CHUTE ROTATE         67         1           1         900-01643         3/8 NC SERR FANGE NUT         43	9	1		FAN WELDMENT	34	3	320-3-1791 - QTY	SHIM, 2 BOLT 205-16				IMPELLER SHEAR
12         320-3-1445         BUSHING, SPACER         35         1 900-23043         3/16 X 1-1/2 COTTER PIN         64         6           1         320-3-1445         EUSHING, SPACER         35         1 320-2-1305         IMPELIER SHERA WILD         65         1           1         320-3-2041         CENTER DRIVE SHAFT         3         1 320-3-1983         ROTATION CHUITE RACK         65         1           1         301-01346         FLANGE BRG 2 BOLT         38         1 320-3-2085         GUIDE CAP         66         1           1         320-2-1307         WELDMENT, AUGR LH         41         1 320-3-2086         GUIDE CAP         66         1           2         320-2-1307         WELDMENT, AUGR LH         41         1 320-3-1386         GUIDE CAP         68         1           1         301-0348         SPROCKET, 6015 IDLER         41         1 320-2-1306         HUGHTING         68         1           1         900-01349         JANGE BRR FLANGE NUT         43         1 320-2-1295         SHECK CHUTE ROTATE         67         1           1         900-01439         JANCK SARR FLANGE NUT         43         1 320-2-1296         CHARR WUD, RH         7         7         4           1 <td>7</td> <td>2</td> <td></td> <td>SKID PLATE WELDMENT</td> <td></td> <td></td> <td>varies as required</td> <td>FLANGE BEARING</td> <td>63</td> <td></td> <td>903-15693</td> <td>External Retaining Rings 2"</td>	7	2		SKID PLATE WELDMENT			varies as required	FLANGE BEARING	63		903-15693	External Retaining Rings 2"
2 900-25012         7/16 x 1 3/4 Lynch Pin         36         1 320-2-1305         IMPELLER SHEAR WLDT         65         3           1 320-3-2041         CENTRE RRIVE SHAFT         37         1 320-3-1983         BYOTATION CHUTE RACK         65         3           1 320-3-2041         CENTRE RRIVE BRIVE SHAFT         39         1 320-2-1395         DISCHARGE CHUTE CT         66         1           1 320-2-1307         WELDMENT, AUGER LH         40         1 320-3-2065         GUIDE CAP         67         2           1 320-2-1307         HELGHTING         41         1 320-3-1306         SPROCKET, GUIS IDLER         42         1 320-3-1306         SPROCKET, CHUTE ROTATE         68         1           1 901-01347         HANGE BERRING         42         1 320-3-1306         SPROCKET, CHUTE ROTATE         68         1           1 900-01347         HAPPITZZOS-16         43         1 900-0131         1/2 NC SERR FLANGE NUT         45         1 900-0131         1/2 NC SERR FLANGE NUT         45         1 320-3-1296         SPACER, CHUTE ROTATE         69         1           1 900-01643         1/2 NC SERR FLANGE NUT         45         1 320-3-1297         SHEAR, DRIVEN         77         1           2 900-01668         5/16 NC SERR FLANGE NUT         46 <td< td=""><td>8</td><td>12</td><td></td><td>BUSHING, SPACER</td><td>32</td><td>1</td><td>900-23043</td><td>3/16 X 1-1/2 COTTER PIN</td><td>64</td><td></td><td>900-03436</td><td>3/8 X 3/4 SERR FLANGE</td></td<>	8	12		BUSHING, SPACER	32	1	900-23043	3/16 X 1-1/2 COTTER PIN	64		900-03436	3/8 X 3/4 SERR FLANGE
1 320-3-2041         CRNTER DRIVE SHAFT         37         1 320-3-1983         ROTATION CHUTE RACK         65         3           3 901-01346         FANGE BRG 2 BOULT         38         1 320-3-1295         GUIDE CAP         66         1           1 320-2-1307         WELDMENT, AUGER LH         40         1 320-3-2018         SPACER, CHUTE ROTATE         67         2           2 320-3-1286         SFROCKET, GOIS IDLER         41         1 320-3-2019         SPACER, CHUTE ROTATE         68         1           1 901-01347         FLANGE BERRING         42         1 320-3-2019         SPACER, CHUTE ROTATE         69         1           1 900-01347         FLANGE RERRING         42         1 320-3-1296         SPACER, CHUTE ROTATE         69         1           1 1 900-01347         FLANGE RERRING         42         1 320-3-1297         SPACER, CHUTE ROTATE         69         1           1 1 900-0143         1/2 NC SERR FLANGE NUT         43         1 300-01594         1 120-01234         TAT LT A HUGE GR ST TO TO TO CO	6	2		7/16 x 1 3/4 Lynch Pin	36	1	320-2-1305	IMPELLER SHEAR WLDT				BOLT GR5
3         901-01346         FLANGE BRG 2 BOLT         38         1         320-2-1295         DISCHARGE CHUTE CT         66         1           1         320-2-1307         WELDHA 205-16GH4         39         1         320-3-2065         GUIDE CAPP         66         1         2         2         2         320-2-1306         AUGER WIDT, RH         66         1         2         1         320-2-1306         AUGER WIDT, RH         68         1         2         3         1         320-2-1306         AUGER WIDT, RH         68         1         1         3         1         320-2-1306         AUGER WIDT, RH         68         1         1         300-01001         1         4         1         320-2-1306         AUGER WIDT, RH         69         1         1         300-01001         1         4         3         900-01001         1/2 NZ JC ARRIAGE         4         1         320-2-1296         TUBE SHEAR WIDA - KEYED         7         4         1         320-2-1296         TUBE SHEAR WIDA - KEYED         7         4         7         2         4         1         320-2-1296         TUBE SHEAR WIDA - KEYED         7         4         4         1         320-2-1296         TUBE SHEAR WIDA - KEYED         7         4	10	1		CENTER DRIVE SHAFT	37		320-3-1983	ROTATION CHUTE RACK	9		320-3-1790 - QTY	SHIM, 2 BOLT 205-16
1 320-2-1307   WELDMENT, AUGER LH   40   1 320-3-2018   SPACER, CHUTE ROTATE   67   2   2   2   2   2   2   2   2   2	11	3		FLANGE BRG 2 BOLT	38		320-2-1295	DISCHARGE CHUTE CT			varies as required	FLANGE BEARING
1         320-2-1307         WELDMENT, AUGER LH         40         1         320-3-2018         SPACER, CHUTE ROTATE         67         2           2         320-2-1286         SPROCKET, 6015 IDLER         41         1         320-3-136         AUGER WIDT, RH         68         1           1         901-01347         FHAFITZ205-16         43         1         320-3-2019         SPACER, CHUTE ROTATE         69         1           16         900-01347         FHAFITZ205-16         43         1         320-3-2019         SPACER, CHUTE ROTATE         69         1           11         900-06139         3/8 NC SERR FLANGE NUT         45         3         300-06504         1/2 - 13 X 2-1/4 HHCS GR S         70         1           2         900-01699         3/8 NC X 3/4 CARRIAGE         47         1         320-3-1297         SHEAR, DRIVE         7         4         7         1         200-01200         1/2 NC SERR FLANGE NUT         45         1         320-3-1297         SHEAR, DRIVE WIN-KEVED         7         4         7         1         320-3-1338         KEEPER, BEARING - 1/4"         7         1         320-3-1338         KEEPER, BEARING - 1/4"         7         1         320-3-1338         KEEPER, BEARING - 1/4"         7				SALFH4 205-16GH4	39		320-3-2065	GUIDE CAP	99		320-3-1194	KEY, 1/4 X 2
1   200-05139   SPROCKE, GUIS IDLER   1   1   1   1   1   1   1   1   1	12	1		WELDMENT, AUGER LH	40	1	320-3-2018	SPACER, CHUTE ROTATE	29		900-16329	SET SCREW, 1/4NCX3/8
2         320-3-1286         SPROCKET, 6015 IDLER         4         1         320-3-1286         SPROCKET, 6015 IDLER         69         1           1         901-01347         HANGE BERRING         42         1         320-3-2019         SPACER, CHUTE ROTATE         7         1           16         900-06139         3/8 NC SERR FLANGE NUT         43         1         300-06133         1/2 - 13 x 2-1/4 HHCS GR S         70         1           1         900-06139         3/8 NC X 3/4 CARRIAGE         46         1         320-2-1296         TUBE SHEAR, MINTON         71         2           2         900-01694         3/8 NC X 3/4 CARRIAGE         46         1         320-2-1296         TUBE SHEAR, MINTON         72         4           5         900-01694         3/8 NC X 3/4 CARRIAGE         46         1         320-2-1296         TUBE SHEAR WIA- KEYED         72         4           6         900-01668         5/16 X 3/4 SHRT NECK         49         6         58FH-5X1.25         COUNTENDER BEARING - 1/4"         7         1         20-3-13-14         7         1         20-3-13-14         1         300-31-14         7         1         300-31-14         7         1         300-31-14         7         1				FLIGHTING	41		320-2-1306	AUGER WLDT, RH	89		320-1-0161	BOBCAT QUICK-TACH KIT
1         901-01347         FLANGE BEARING         42         1         320-3-2019         SPACER, CHUTE ROTATE         7         1           16         900-06139         3/8 NO CSERR FLANGE NUT         44         3         900-06133         1/2 - 13 X - 1/4 HHGS GR S         7         1           11         900-06143         3/8 NO C SERR FLANGE NUT         44         3         200-0504         1/2" NC TOPLOCK NUT         7         1         200-0504         1/2" NC TOPLOCK NUT         7         1         200-0504         1/2" NC TOPLOCK NUT         7         1         2         1         200-0504         1/2" NC TOPLOCK NUT         7         1         2         1         200-0504         1/2" NC TOPLOCK NUT         7         1         2         1         2         0         1         2         0         0         0         1         2         0<	13	2		SPROCKET, 6015 IDLER				FLIGHTING	69		905-15024	1/4-28 NF ST. GREASE
16   900-06139   3/8 NC SERR FLANGE NUT   44   3   900-05504   1/2" NC TOPLOCK NUT   1   900-06143   1/2 NC SERR FLANGE NUT   44   3   900-05504   1/2" NC TOPLOCK NUT   2   2   900-01694   3/80 KZ 3/4 CARRIAGE   46   1   320-2-1297   STEAR, DRINGHOUS   1/4"   2   2   4   1   320-2-1296   TABER, DRINGHOUS   1/4"   2   2   4   1   320-3-1209   CHAIN STRIPPER   72   4   1   320-3-1209   CHAIN STRIPPER   72   4   1   320-3-1238   KEEPER, BEARING - 1/4"   7   7   2   4   2   2   4   2   2   4   2   2	14	1		FLANGE BEARING	42	1	320-3-2019	SPACER, CHUTE ROTATE				ZERK
16         900-06139         3/8 NC SERR FLANGE NUT         44         3         900-06504         1/2" NC TOPLOCK NUT         7         1         2           11         900-06143         1/2 NC SERR FLANGE NUT         45         1         3202-1297         SHEAR, DRIVEN         71         2         4           2         900-01694         3/8NC X 3/4 CARRIAGE         46         1         3202-1296         TUBE SHEAR W/A - KEYED         72         4           6         900-01604         1/4-20 x 1/2 GR 5 HHCS         48         3         3202-31936         KEEPER, BEARING - 1/4"         73         6           5         900-01668         5/16 K 3/4 SHRT NECK         49         6         S8H-5XI.25         Hexagon Socket Flat         73         6           1         300-01688         5/16 NC SERR FLANGE NUT         50         1         320-3-132         Hexagon Socket Flat         74         2           1         300-01688         5/16 NC SERR FLANGE NUT         50         1         320-2-1217         DIRECTIONAL CONTROL         75         1           2         900-011186         3/4 SAF FLAT WASHER         51         2         900-01145         3/4-10 X-1/4 HEX BOLT         76         1           1				FHPFTZ205-16	43	1	900-01231	GR	70		904-05578	HYDRAULIC MOTOR
11         900-06143         1/2 NC SERR FLANGE NUT         45         1         320-2-1297         SHEAR, DRIVEN         71         2           2         900-01694         3/8NC X 3/4 CARRIAGE         46         1         320-2-1296         TUBE SHEAR W/A - KEYED         7         4           6         900-01694         3/8NC X 3/4 CARRIAGE         48         3         320-3-1938         KEEPER, BERRING - 1/4"         73         6           6         900-01001         1/4-20 x 1/2 GR 5 HHCS         48         3         320-3-1938         KEEPER, BERRING - 1/4"         73         6           1         900-01668         5/16 X 3/4 SHRT NECK         49         6         S8H-5X1.25         Hexagon Socket Flat         72         7           1         300-01688         5/16 NC SERR FLANGE NUT         50         1         320-2-1217         DIRECTIONAL CONTROL         75         1           2         900-01131         3/4 SAE FLAT WASHER         51         2         900-017GR5         77         12           2         900-01173         3/8 SAE FLAT WASHER         53         1         900-0147         3/4-10 X - 1/4 HEX BOLT         76         1           4         1         300-01349         54	15	16		3/8 NC SERR FLANGE NUT	44	3	900-06504	1/2" NC TOPLOCK NUT				OMS100
2         900-01694         3/8NC X 3/4 CARRIAGE         46         1         320-2-1296         TUBE SHEAR W/A - KEYED         7         4           6         900-01001         1/4-20 x 1/2 GR 5 HHCS         48         3         320-3-1038         KEEPER, BEARING - 1/4"         73         6           5         900-01068         5/16 X 3/4 SHRT NECK         49         6         S8FH.5X1.25         Hexagon Socket Flat         7         2           1         300-06137         5/16 NC SERR FLANGE NUT         50         1         320-3-1217         DIRECTIONAL CONTROL         74         2           1         320-3-1428         CHUTE DEFLECTOR PIN         50         1         320-2-1217         DIRECTIONAL CONTROL         7         1           2         900-2914         ROLL PIN, 1/8 X 3/4         7         1         300-21217         DIRECTIONAL CONTROL         75         1           2         900-2914         ROLL PIN, 1/8 X 3/4         51         2         900-01753         1/2NC X 2 CARRIAGE         77         12           1         320-21136         ATTOR X 2 CARRIAGE         52         1         900-01415         3/4-10 X 3-1/4 HEX BOLT         76         1           1         320-3-1450         CYLIN	16	11		1/2 NC SERR FLANGE NUT	42	1	320-2-1297	SHEAR, DRIVEN	71		900-16361	5/16 NC X 1/2 SET SCREW
6         900-01001         1/4-20 x 1/2 GR 5 HHCS         47         1         320-3-2020         CHAIN STRIPPER         72         4           5         900-01068         5/16 X 3/4 SHRT NECK         48         3         320-3-1938         KEEPER, BEARING - 1/4"         73         6           1         900-01668         5/16 X 3/4 SHRT NECK         49         6         SRFH.5X1.25         Hexagon Socket Flat         73         6           1         900-01637         5/16 NC SERR FLANGE NUT         50         1         320-2-1217         DIRECTIONAL CONTROL         73         1           1         300-05114         ROLL PIN, 1/8 X 3/4         50         1         320-2-1217         DIRECTIONAL CONTROL         75         1           1         300-01136         3/4 SAE FLAT WASHER         51         900-01753         1/2NC X 2 CARRIAGE         77         12           2         900-011178 - QTY         3/8 SAE FLAT WASHER         52         1         900-01415         3/4 - 10 FLANGE NUT         79         2           1         300-06500         3/8 TOPLOCK NUT - UNC         53         1         900-01011         1/4NC X 1-1/4 HEX BOLT         80         1           2         901-01348         CYLINDRICAL BEARING	17	7		3/8NC X 3/4 CARRIAGE	46		320-2-1296					CUP PT
6         900-01001         1/4-20 x 1/2 GR 5 HHCS         48         3         320-3-1938         KEEPER, BEARING - 1/4"         73         6           5         900-01668         5/16 X 3/4 SHRT NECK         49         6         S8FH.5X1.25         Hexagon Socket Flat         74         2           11         900-01668         5/16 X 3/4 SHRT NECK         49         6         S8FH.5X1.25         Hexagon Socket Flat         74         2           11         900-06137         5/16 NC SERR FLANGE NUT         50         1         320-3-1217         DIRECTIONAL CONTROL         75         1           1         300-06137         5/16 NC SER FLANGE NUT         50         1         320-2-1217         DIRECTIONAL CONTROL         75         1           1         300-01136         3/4 SAE FLAT WASHER         51         2         900-01753         1/2NC X 2 CARRIAGE         77         12           1         300-11178 - QTY         3/8 SAE FLAT WASHER         53         1         900-01415         3/4-10 K A 1-1/4 HEX BOLT         79         2           2         900-01348         CYLINDRICAL BEARING         55         1         900-06496         1/4-20 TOPLOCK NUT         80         1           2         901-01348				BOLT	47		320-3-2020	CHAIN STRIPPER	72		900-01225	1/2NC X 1-1/2 HEX BOLT G5
5         900-01668         5/16 X 3/4 SHRT NECK         49         6         S8FH.5X1.25         Hexagon Socket Flat         74         2           11         900-06137         5/16 NC SERR FLANGE NUT         50         1         320-2-1217         DIRECTIONAL CONTROL         75         1           2         900-29114         ROLL PIN, 1/8 X 3/4         51         2         900-01753         1/2NC X 2 CARRIAGE         77         12           2         900-01121         3/8 NC X 2.5 HEX BOLT GS         5         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         77         12           2         900-01121         3/8 NC X 2.5 HEX BOLT GS         5         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         77         12           4         900-01178 - QTY         3/8 SAE FLAT WASHER         53         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         78         1           5         900-01348         5/8 SAE FLAT WASHER         53         1         900-01011         1/4NC X 1-1/4 HEX BOLT         79         2           8         900-06500         3/8 TOPLOCK NUT- UNC         55         1         900-01011         1/4-20 TOPLOCK NUT         79         1           1         900-01348	18	9		$1/4-20 \times 1/2$ GR 5 HHCS	48		320-3-1938	KEEPER, BEARING - 1/4"	73		900-01671	Round Head Square Neck
11         900-06137         5/16 NC SERR FLANGE NUT         50         1         320-2-1217         Countersunk Head Cap         74         2           1         300-06137         5/16 NC SERR FLANGE NUT         50         1         320-2-1217         DIRECTIONAL CONTROL         75         1           2         900-29114         ROLL PIN, 1/8 X 3/4         51         2         900-01753         1/2NC X 2 CARRIAGE         76         1           2         900-01121         3/4 SAE FLAT WASHER         51         2         900-01415         1/2NC X 2 CARRIAGE         76         1           2         900-01121         3/8 NC X 2.5 HEX BOLT GS         52         1         900-0147         3/4-10 K 3-1/2 GR 5 HHCS         78         1           4         900-011178 - QTY         3/8 SAE FLAT WASHER         53         1         900-01011         1/4NC X 1-1/4 HEX BOLT         79         2           8         900-06500         3/8 TOPLOCK NUT - UNC         51         900-01011         1/4-20 TOPLOCK NUT         79         2           1         900-06500         3/8 TOPLOCK NUT - UNC         52         1         900-06496         1/4-20 TOPLOCK NUT         70         1           2         901-01348         FHSR205-16 <td>19</td> <td>2</td> <td></td> <td>5/16 X 3/4 SHRT NECK</td> <td>49</td> <td>9</td> <td>S8FH.5X1.25</td> <td>Hexagon Socket Flat</td> <td></td> <td></td> <td></td> <td>Bolt 5/16-18 UNC - 1-1/2</td>	19	2		5/16 X 3/4 SHRT NECK	49	9	S8FH.5X1.25	Hexagon Socket Flat				Bolt 5/16-18 UNC - 1-1/2
11 900-06137         5/16 NC SERR FLANGE NUT         50         1 320-2-1217         DIRECTIONAL CONTROL         75         1           2 900-29114         ROLL PIIN, 1/8 X 3/4         51         2 900-01753         I/2NC X 2 CARRIAGE         76         1           10 900-11186         3/4 SAE FLAT WASHER         51         2 900-01753         I/2NC X 2 CARRIAGE         76         1           2 900-01121         3/8 NC X 2.5 HEX BOLT GS         52         1 900-01415         3/4-10 X 3-1/2 GR 5 HHCS         78         1           4 900-11178 - QTY         3/8 SAE FLAT WASHER         53         1 900-01011         1/4NC X 1-1/4 HEX BOLT         79         2           5 900-05500         3/8 TOPLOCK NUT - UNC         54         1 900-01011         1/4NC X 1-1/4 HEX BOLT         79         2           2 901-01348         CYLINDRICAL BEARING         55         1 900-06496         1/4-20 TOPLOCK NUT         80         1           2 901-01348         CYLINDRICAL BEARING         55         1 320-2-1294         MOUNT, CHUTE ROTATE         81         1           11 900-11035 - QTY         1/2" USS FLATWASHER         57         1 320-2-1301         IMPELLER GUARD         82         1           11 900-11035 - QTY         1/2" USS FLATWASHER         58         2 900-0				CARR BOLT GR5				Countersunk Head Cap	74		900-01127	Hex Bolt - UNC (Regular
1         320-3-1428         CHUTE DEFLECTOR PIN         50         1         320-2-1217         DIRECTIONAL CONTROL         75         1           2         900-29114         ROLL PIN, 1/8 X 3/4         51         2         900-01753         1/2NC X 2 CARRIAGE         76         1           2         900-01121         3/8 NC X 2.5 HEX BOLT G5         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         78         1           1         320-3-1450         CYLINDER BUSHING         52         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         78         1           6         900-11178 - QTY         3/8 SAE FLAT WASHER         53         1         900-06147         3/4-10 X 3-1/2 GR 5 HHCS         78         1           1         300-06500         3/8 TOPLOCK NUT- UNC         54         1         900-06496         1/4NC X 1-1/4 HEX BOLT         79         2           2         901-01348         CYLINDRICAL BEARING         55         1         900-06496         1/4-20 TOPLOCK NUT         80         1           1         900-10134         CYLINDRICAL BEARING         55         1         320-2-1294         MOUNT, CHUTE ROTATE         81         1           1         900-10135 - QTY         1/2" USS F	20	11		5/16 NC SERR FLANGE NUT				Screw 1/2 X 1-1/4				Thread - Inch) 3/8 X 3-1/4
2         900-29114         ROLL PIN, 1/8 X 3/4         51         2         900-01753         1/2NC X 2 CARRIAGE         76         1           10         900-11186         3/4 SAE FLAT WASHER         51         2         900-01753         1/2NC X 2 CARRIAGE         77         12           2         900-01121         3/8 NC X 2.5 HEX BOLT GS         52         1         900-01415         3/4-10 K 3-1/2 GR 5 HHCS         78         1           1         320-3-1450         CYLINDER BUSHING         53         1         900-06147         3/4-10 K 3-1/2 GR 5 HHCS         78         1           2         900-11178 - QTY         3/8 SAE FLAT WASHER         53         1         900-06147         3/4-10 K A 1-1/4 HEX BOLT         79         2           3         900-06500         3/8 TOPLOCK NUT-         54         1         900-01011         1/4-20 TOPLOCK NUT         80         1           2         901-01348         CYLINDRICAL BEARING         55         1         320-2-1294         MOUNT, CHUTE ROTATE         81         1           1         900-11035 - QTY         1/2" USS FLATWASHER         57         1         320-2-1394         MOUNT, CHUTE ROTATE         82         1           1         varies as required	21	П		CHUTE DEFLECTOR PIN	20	П	320-2-1217	DIRECTIONAL CONTROL	72		900-01233	1/2-13 X 2-1/2 GR 5 HHCS
10         900-11186         3/4 SAE FLAT WASHER         51         2         900-01753         1/2NC X 2 CARRIAGE         76         1           2         900-01121         3/8 NC X 2.5 HEX BOLT GS         52         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         77         12           1         320-3-1450         CYLINDER BUSHING         53         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         78         1           6         900-11178 - QTY         3/8 SAE FLAT WASHER         53         1         900-06147         3/4-10 X 3-1/4 HEX BOLT         79         2           3         900-06500         3/8 TOPLOCK NUT - UNC         54         1         900-06496         1/4-20 TOPLOCK NUT         80         1           2         901-01348         CYLINDRICAL BEARING         55         1         320-2-1294         MOUNT, CHUTE ROTATE         81         1           11         900-11035 - QTY         1/2" USS FLATWASHER         57         1         320-2-1301         IMPELLER GUARD         82         1           11         varies as required         58         2         900-01111         3/8-16 X 1-1/4 GR 5 HHCS         82         1	22	7		ROLL PIN, 1/8 X 3/4				VALVE				ZP
2         900-01121         3/8 NC X 2.5 HEX BOLT GS         52         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         77         12           6         900-11178 - QTY         3/8 SAE FLAT WASHER         53         1         900-06147         3/4 - 10 FLANGE NUT         79         2           3         900-06500         3/8 TOPLOCK NUT- UNC         54         1         900-01011         1/4NC X 1-1/4 HEX BOLT         80         1           2         901-01348         CYLINDRICAL BEARING         55         1         900-06496         1/4-20 TOPLOCK NUT         80         1           1         900-11035 - QTY         1/2" USS FLATWASHER         57         1         320-2-1294         MOUNT, CHUTE ROTATE         81         1           1         900-11035 - QTY         1/2" USS FLATWASHER         57         1         320-2-1301         IMPELLER GUARD           1         varies as required         58         2         900-01111         3/8-16 X 1-1/4 GR 5 HHCS         82         1	23	10		3/4 SAE FLAT WASHER	21	7	900-01753	1/2NC X 2 CARRIAGE	9/	$\neg$	320-3-2068	PINION, CHUTE ROTATE
1         320-3-1450         CYLINDER BUSHING         52         1         900-01415         3/4-10 X 3-1/2 GR 5 HHCS         78         1           6         900-11178 - QTY         3/8 SAE FLAT WASHER         53         1         900-06147         3/4-10 FLANGE NUT         79         2           3         900-06500         3/8 TOPLOCK NUT- UNC         54         1         900-01011         1/4NC X 1-1/4 HEX BOLT         80         1           2         901-01348         CYLINDRICAL BEARING         55         1         900-06496         1/4-20 TOPLOCK NUT         80         1           1         900-11035 - QTY         1/2" USS FLATWASHER         56         1         320-2-1294         MOUNT, CHUTE ROTATE         81         1           1         900-11035 - QTY         1/2" USS FLATWASHER         57         1         320-2-1301         IMPELLER GUARD           1         varies as required         58         2         900-01111         3/8-16 X 1-1/4 GR 5 HHCS         82         1	24	7		3/8 NC X 2.5 HEX BOLT G5				BOLT GR5	77	$\neg$	900-01109	3/8-16 X 1 GR 5 HHCS
6 900-11178 - QTY         3/8 SAE FLAT WASHER         53         1 900-06147         3/4 - 10 FLANGE NUT         79         2           3 900-06500         3/8 TOPLOCK NUT- UNC         54         1 900-01011         1/4NC X 1-1/4 HEX BOLT         80         1           2 901-01348         CYLINDRICAL BEARING         55         1 900-06496         1/4-20 TOPLOCK NUT         80         1           11 900-11035 - QTY         1/2" USS FLATWASHER         57         1 320-2-1301         IMPELLER GUARD         81         1           12 varies as required         58         2 900-01111         3/8-16 X 1-1/4 GR 5 HHCS         82         1	25	П		CYLINDER BUSHING	52	1	900-01415	3/4-10 X 3-1/2 GR 5 HHCS	78		900-06276	1/2-13 JAM NUT ZP
varies as required         54         1         900-01011         1/4NC X 1-1/4 HEX BOLT         80         1           2         900-06500         3/8 TOPLOCK NUT- UNC         55         1         900-06496         1/4-20 TOPLOCK NUT         80         1           2         901-01348         CYLINDRICAL BEARING         55         1         320-2-1294         MOUNT, CHUTE ROTATE         81         1           11         900-11035 - QTY         1/2" USS FLATWASHER         57         1         320-2-1301         IMPELLER GUARD         81         1           varies as required         58         2         900-01111         3/8-16 X 1-1/4 GR 5 HHCS         82         1	26	9		3/8 SAE FLAT WASHER	23	1	900-06147	3/4 - 10 FLANGE NUT	79		900-06584	Prevailing Torque Type Hex
3 900-06500         3/8 TOPLOCK NUT- UNC         6R5         80         1           2 901-01348         CYLINDRICAL BEARING         55         1         900-06496         1/4-20 TOPLOCK NUT         81         1           11 900-11035 - QTY         1/2" USS FLATWASHER         57         1         320-2-1301         IMPELLER GUARD         81         1           varies as required         58         2         900-01111         3/8-16 X 1-1/4 GR 5 HHCS         82         1			varies as required		24	Т	900-01011	1/4NC X 1-1/4 HEX BOLT				Nut 3/8"
2 901-01348 CYLINDRICAL BEARING 55 1 900-06496 1/4-20 TOPLOCK NUT ROTATE 81 1 300-11035 - QTY 1/2" USS FLATWASHER 57 1 320-2-1301 IMPELLER GUARD 58 2 900-01111 3/8-16 X 1-1/4 GR 5 HHCS 82 1	27	3		3/8 TOPLOCK NUT- UNC				GR5	80	н	900-01701	3/8NC X 2-1/2 CARRIAGE
11         900-11035 - QTY         1/2" USS FLATWASHER         56         1         320-2-1294         MOUNT, CHUTE ROTATE         81         1           11         900-11035 - QTY         1/2" USS FLATWASHER         57         1         320-2-1301         IMPELLER GUARD         81         1           12         varies as required         58         2         900-01111         3/8-16 X 1-1/4 GR 5 HHCS         82         1	28	7		CYLINDRICAL BEARING	22	1	900-06496	1/4-20 TOPLOCK NUT				BOLT G5
11   900-11035 - QTY   1/2" USS FLATWASHER   57   1   320-2-1301   IMPELLER GUARD   S8   2   900-01111   3/8-16 X 1-1/4 GR 5 HHCS   82   1			$\neg$	FHSR205-16	26	- 1	320-2-1294	MOUNT, CHUTE ROTATE	81		S8SH10-32X1.25ZP	Hexagon Socket Head Cap
58   2  900-01111   3/8-16 X 1-1/4 GR 5 HHCS   82   1	53	11		1/2" USS FLATWASHER	27		320-2-1301	IMPELLER GUARD				Screw ASTM A574 10-32 X
Н		_	varies as required		28		900-01111	3/8-16 X 1-1/4 GR 5 HHCS				1-1/4"
									82		900-06579	Prevailing Torque Type Hex Nut No. 10-32

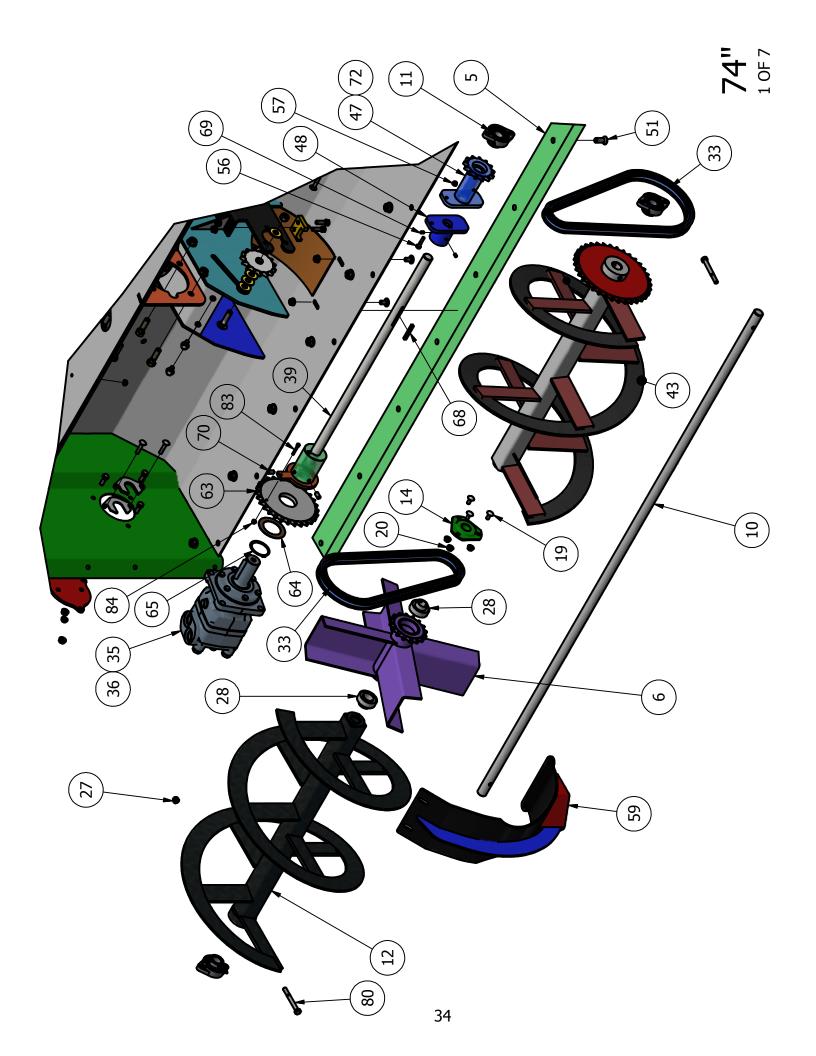
**60''** 4 of 7



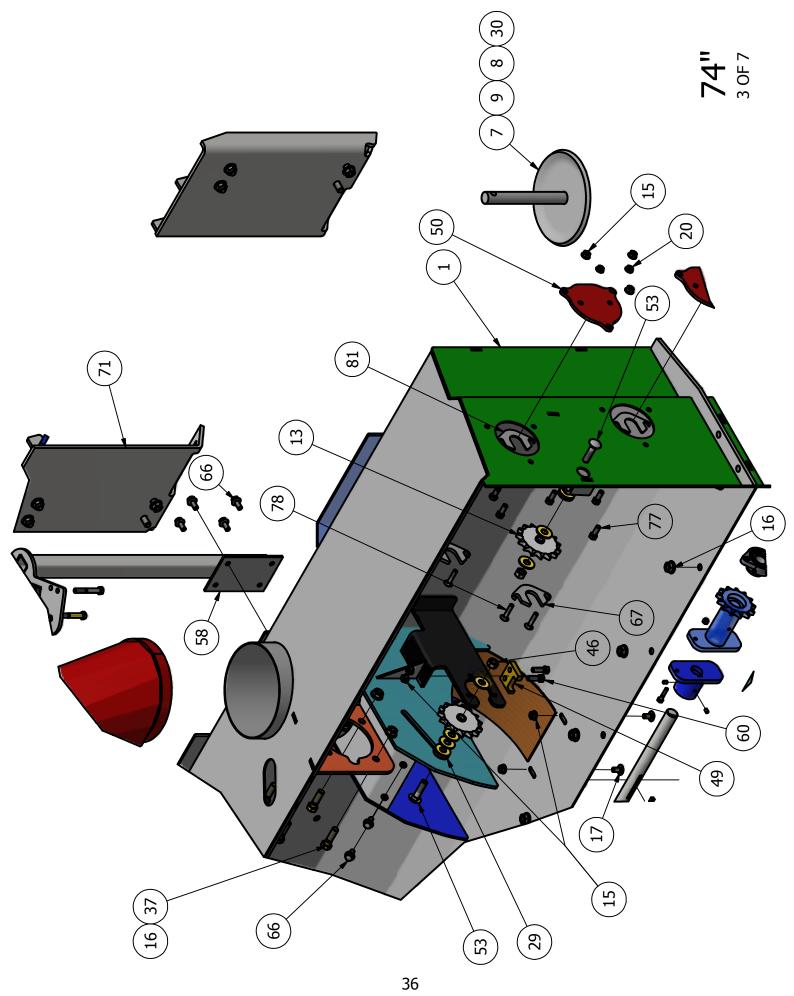
**6** of 7

Nut No. 10-32

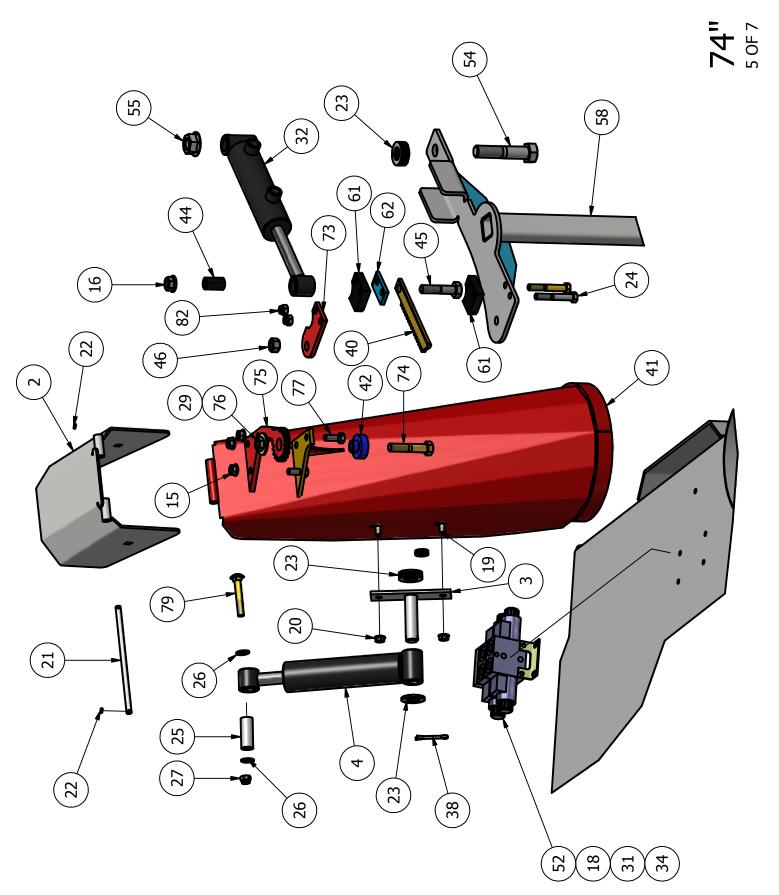




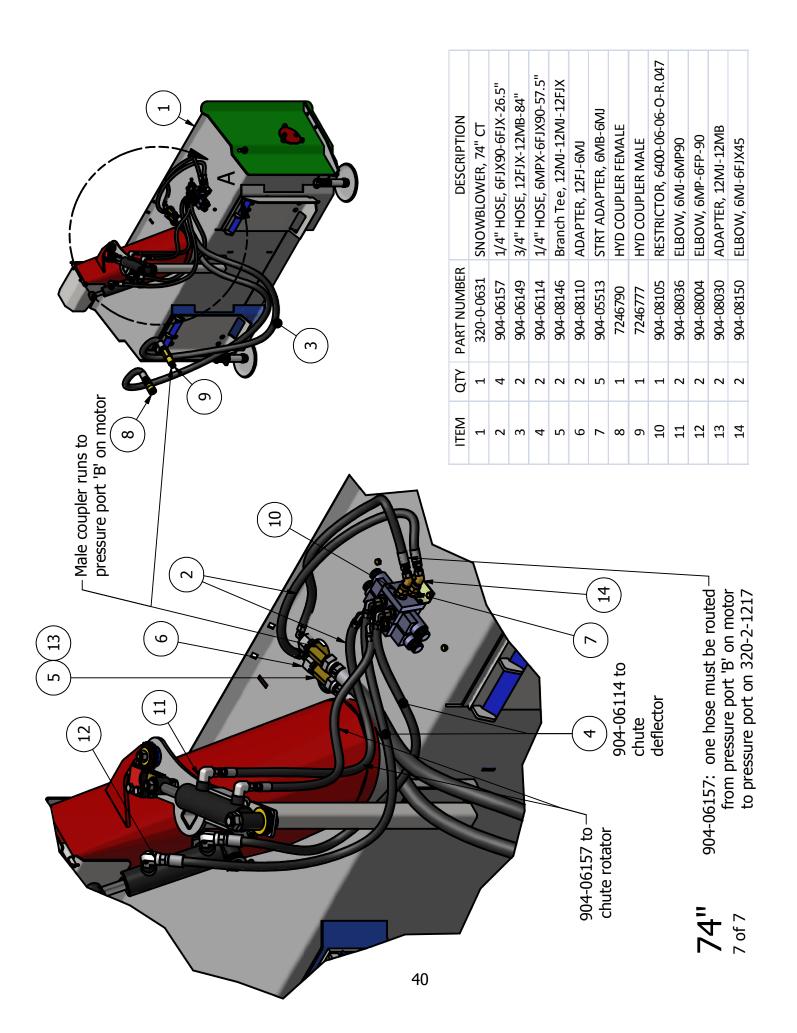
1         905-21206         HYD. CYLINDER         62         1         320-3-2023           2         903-03139 & #60-1 roller chain with 65         1         320-3-1954           903-03139 & connector link 8 half link 6         903-03139         3         300-06135         14" SERF LANGE NUT 64         1         320-3-1954           1         904-05579         OMT DRIVE MOTOR, CT 65         1         903-15693         1         320-3-1955           1         1         320-3-1092         KEV, 3/8 x 2         6         6         900-0346         3         320-3-1959           4         900-01227         1/2 x 1-3/4 GK 5 H4CS         66         6         900-0346         900-0346         1         320-3-1959         900-0346         1         320-3-1999         1         320-3-1999         900-0349         900-0349         900-0349         900-0349         900-0349         900-0349         900-16329	PAR: QTY PART NUMBER 1 320-2-1300		[2]	PARTS LIST BER DESCRIPTION MF WELDMENT. CT	ITEM 31	QTY PART NUM 1 320-3-1985	PARTS LIST BER DESCRIPTION SHIELD. CONTROL VALVE	ITEM 61	QTY	PARTS LIST PART NUMBER 320-3-2022 RAG	LIST DESCRIPTION RACK GUIDE
2         903-03139 & #60-1 roller chain with         63         1         320-3-1954           903-03052/89         connector link & half link         4         1320-3-1955           1         904-055/9         OMT Learner Pance Rull         65         1         933-15633           1         320-3-192         KEV, 318 X 2         66         6         900-03436           1         320-3-103         IMPELLER PINC         66         900-03436           1         320-2-1302         IMPELLER PINC         6         6         900-03436           1         320-2-1302         IMPELLER PINC         6         6         900-03436           1         320-2-1295         BOTATION CHUTE RACK         varies as required           1         320-2-1296         DISCHARGE CHUTE CT         8         1         320-3-1790 - QTY           1         320-2-1298         BOTACER, CHUTE ROTATE         6         9         2         900-16395           1         320-2-1298         FILGHTING         7         1         900-16395           1         320-2-1299         SPACER, CHUTE ROTATE         8         1         320-3-106           1         320-2-1299         SPACER, CHUTE ROTATE         8		DEFLECTOR WELDME	DEFLECTOR WELDMI	INI	32	1 320-3-1985 1 905-21206	HYD. CYLINDER	62	1	320-3-2023 320-3-2023	RACK GUIDE RACK GUIDE, MIDDLE
6 900-06135		CYLINDER PIN WELD	CYLINDER PIN WELD	MENT	33	2 903-03139 & ang-03062/89	#60-1 roller chain with	83	н	320-3-1954	DRIVE SPROCKET,
1 904-05579         OMT DRIVE MOTOR, CT         65         1         903-15693           1 320-3-1092         KEY, 3/8 X Z         66         6         900-01346           1 900-01227         1/2 X 1-3/4 GR 5 HHCS         66         6         900-03436           1 1 320-2-1302         IMPELIER SHEAR WLDT         67         3         320-3-1790 - QTY           1 1 320-2-1395         BOTATION CHUTE RACK         7         3         200-16329           1 1 320-2-1295         DISCHARGE CHUTE CT         68         1         200-16329           1 1 320-2-1296         BAGER, CHUTE ROTATE         68         1         200-16329           1 1 320-2-1296         BAGER, CHUTE ROTATE         68         1         200-16329           1 1 320-2-1297         SHAGE, WLDT, RH         69         2         900-16329           1 1 300-01231         1/2 - 13 X 2-1/4 HHCS GR 5         71         1         320-3-1068           1 2 300-2-1297         SHEAR, DRIVEN         72         1         900-16329           1 320-3-1298         KEEPER, BEARING - 1/4"         72         1         900-16329           1 320-2-1297         Hexagon Socket Flat         75         1         200-10133           1 320-3-1038         KEE	320-3-1959	72" CUTTING EDGE	72" CUTTING EDGE		34	6 900-06135	1/4" SERR. FLANGE NUT	2	1	320-3-1955	THRUST WASHER,
1 320-3-1092         KEY, 3/8 X 2         65         1 903-15693           4 900-01227         1/2 X 1-3/4 GR 5 HHCS         66         6 900-03436           1 900-23043         3/16 X 1-1/2 COTTER PIN         67         3 320-3-1990 - QTY           1 320-2-1302         IMPELLER SHEAR WLDT         67         3 320-3-199 - QTY           1 320-2-1295         DISCHARGE CHUTE CT         68         1 320-3-199           1 320-2-1295         DISCHARGE CHUTE CT         68         1 320-3-199           1 320-2-1296         SPACER, CHUTE ROTATE         68         1 320-3-194           1 320-2-1298         AUGER WLDT, RH         69         2 900-16329           1 320-3-2019         SPACER, CHUTE ROTATE         70         2 900-16329           1 320-2-1296         SPACER, CHUTE ROTATE         70         1 900-16329           1 320-2-1297         SHEAR, DRIVEN         72         1 900-1632           1 320-2-1297         SHEAR, DRIVEN         72         1 900-0153           1 320-3-1098         KEEPER, BEARING - 1/4"         75         1 320-3-2068           2 SPH, SXI, 125ZP         Hexagon Socket Flat         75         1 300-0123           3 30-3-1938         KEEPER, BEARING - 1/4"         75         1 900-0123           <	320-2-1303 FAN WELDMENT	FAN WELDMENT	FAN WELDMENT		32	1 904-05579	OMT DRIVE MOTOR, CT				IMPELLER SHEAR
4 900-01227         1/2 X 1-3/4 GR 5 HHCS         66 6 900-03436           1 900-23043         3/16 X 1-1/2 COTTER PIN         7 3 20-3-1790 - QTY           1 320-2-1302         IMPELLER SHEAR WLDT         67 3 320-3-1790 - QTY           1 320-3-1295         DISCHARGE CHUTE CT         8 1 320-3-1194           1 320-2-1295         DISCHARGE CHUTE CT         68 1 320-3-1194           1 320-2-1298         ROTATION CHUTE ROTATE         68 1 320-3-1194           1 320-2-1298         AUGER WLDT, RH         69 2 900-16329           1 320-3-2019         SPACER, CHUTE ROTATE         69 2 900-16329           1 320-2-1297         SHEAR, DRIVEN         72 1 320-3-2065           1 320-2-1297         SHEAR, DRIVEN         72 1 305-1504           1 320-2-1296         TUBE SHEAR W/A - KEYED         73 1 320-3-2065           1 320-2-1297         SHEAR, DRIVEN         74 1 900-01233           1 320-2-1296         TUBE SHEAR W/A - KEYED         75 1 30-3-2065           1 320-2-1297         SHEAR, DRIVEN         76 1 900-01233           2 300-01231         JANCK X 1-1/4         76 1 900-01231           3 320-3-1338         KEEPER, BEARING - 1/4"         76 1 900-01077           1 320-2-1217         DIRECTIONAL CONTROL         76 1 900-01107           1 300-01415	320-2-1187	SKID PLATE WELDMEN	SKID PLATE WELDMEN	⊢	36	1 320-3-1092	KEY, 3/8 X 2	65	1	903-15693	
1 320-21393         3/10 X 1-1/2 CO I I EK PIN         67         3 320-3-1790 - QTY           1 320-2-1302         IMPELLER SHERR WLDT         67         3 320-3-1790 - QTY           1 320-2-1295         DISCHARGE CHUTE CACK         varies as required           1 320-2-1295         DISCHARGE CHUTE CACK         varies as required           1 320-2-1296         SPACER, CHUTE ROTATE         68         1 320-3-1194           1 320-2-1298         AUGER WLDT, RH         69         2 900-16329           1 320-2-1298         HLGHTING         70         2 900-16329           1 320-2-1298         HLGHTING         70         2 900-16329           1 320-2-1296         LIGHTING         72         1 320-1-0161           1 320-2-1296         TUBE SHEAR WA - KEYED         72         1 900-1033           1 320-2-1296         TUBE SHEAR WA - KEYED         73         1 320-3-2065           1 320-2-1296         TUBE SHEAR WA - KEYED         73         1 320-3-2065           1 320-2-1296         CHAIN STRIPPER         71         1 900-01231           1 320-2-1296         CHAIN STRIPPER         72         1 900-01231           1 320-2-1239         KEEPER, BEARING - 1/4"         7         1 900-01231           1 320-2-1239         REPER, B	320-3-1445	BUSHING, SPACER	BUSHING, SPACER		37	4 900-01227	1/2 X 1-3/4 GR 5 HHCS	99	9	900-03436	3/8 X 3/4 SERR FLANGE
1 320-2-1302         IMPELLER SHEAR WLD1         67         3 320-3-1790         -QITY           1 320-2-1393         ROTATION CHUTE RACK         varies as required           1 320-2-1295         SPACER, CHUTE CT         68         1 320-3-1194           1 320-3-2198         AUGER WLDT, RH         69         2 900-16329           1 320-3-2019         SPACER, CHUTE ROTATE         68         1 320-3-1194           1 320-3-2019         SPACER, CHUTE ROTATE         69         2 900-16339           1 320-3-2019         SPACER, CHUTE ROTATE         69         2 900-16339           1 320-2-1298         FLIGHTING         70         2 900-16339           1 320-2-1297         SHEAK, DRIVEN         72         1 900-1633           1 320-2-1297         SHEAK, DRIVEN         73         1 320-3-2065           1 320-2-1297         SHEPER, BEARING - 1/4"         75         1 320-3-2068           2 SFH-SXI.25ZP         Hexagon Socket Flat         76         1 900-01671           2 900-01753         1/2NLYE         77         12 900-01671           3 4-10 K3-1/2 GR 5 HHCS         80         2 900-0177           1 900-01415         3/4-10 K3-1/4 HEX BOLT         81         330-3-1791           1 320-2-1294         MOUNIT, CHUTE	900-25012	7/16 x 1 3/4 Lynch Pin	1/16 x 1 3/4 Lynch Pin	T	88	1 900-23043	3/16 X 1-1/2 COTTER PIN	-[	,		BOLT GR5
1         3.20-3-1395         NOTATION CHOTE CACA         68         1         320-3-1194           1         3.20-3-2035         SPACER, CHUTE ROTATE         68         1         320-3-1194           1         3.20-3-2018         SPACER, CHUTE ROTATE         69         2         900-16339           1         3.20-3-2019         SPACER, CHUTE ROTATE         69         2         900-16339           1         3.20-3-2019         SPACER, CHUTE ROTATE         69         2         900-16395           1         3.20-3-2019         SPACER, CHUTE ROTATE         70         2         900-16395           1         3.20-3-2019         SPACER, CHUTE ROTATE         70         2         900-16395           1         3.20-3-1934         AUGER WIDT, RHUSS GR 5         71         1         320-10161           1         3.20-2-1297         SHEAR, DRIVEN         72         1         900-01231           1         3.20-3-1938         KEEPER, BEARING - 1/4"         75         1         320-3-2068           1         3.20-3-1938         KEEPER, BEARING - 1/4"         75         1         320-3-2068           2         900-01753         1/2NC X 2 CARRIAGE         79         1         900-01771	1 320-3-1984 CENTER DRIVE SHAFT 3 001-01346 ELANGE BEADING 2 BOLT	CENTEK DRIVE SHAFT	CENTEK DKIVE SHAFT	T	ي ح	1 320-2-1302	IMPELLER SHEAK WLUI	هٔ ح	<u>ν</u>		SHIM, 2 BULI 205-16
1         320-3-2018         SPACER, CHUTE ROTATE         68         1         320-3-1194           1         320-2-1298         AUGER WIDT, RH         69         2         900-16329           1         320-2-1298         FLIGHTING         70         2         900-16339           1         320-3-2019         SPACER, CHUTE ROTATE         7         1         320-1-0161           3         900-00534         1/2 - 13 X 2-1/4 HHCS GR 5         71         1         320-1-0161           1         300-00504         1/2 - 13 X 2-1/4 HHCS GR 5         71         1         320-1-0161           1         300-00504         1/2 - 13 X 2-1/4 HHCS GR 5         7         1         900-1034           1         320-2-1296         TUBE SHEAR W/A - KEYED         73         1         320-3-2065           1         320-2-1296         TUBE SHEAR W/A - KEYED         74         1         900-01233           3         320-3-1938         KEREPR, BEARING - 1/4"         75         1         320-3-2065           1         320-3-1938         KEREPR, BEARING - 1/4         75         1         900-01271           1         320-3-1938         KEREPR, BEARING - 1/4         7         1         900-01771 </td <td>010-106</td> <td>SALFH4 205-16GH4</td> <td> </td> <td>_</td> <td>4</td> <td>1 320-2-1295</td> <td>DISCHARGE CHUTE CT</td> <td>_</td> <td></td> <td>עמווכם מם וכלתווכת</td> <td>ר באויטר טראאייט</td>	010-106	SALFH4 205-16GH4		_	4	1 320-2-1295	DISCHARGE CHUTE CT	_		עמווכם מם וכלתווכת	ר באויטר טראאייט
1         320-2-1298         AUGER WLDT, RH         69         2         900-16329           1         320-3-2019         SPACER, CHUTE ROTATE         70         2         900-16395           1         320-3-2019         SPACER, CHUTE ROTATE         71         320-1-0161           1         300-06504         1/2" NC TOPLOCK NUT         72         1         905-15024           1         300-06504         1/2" NC TOPLOCK NUT         72         1         905-15024           1         320-2-1297         SHEAR, DRIVEN         73         1         320-3-2065           1         320-2-1296         TUBE SHEAR W/A - KEYED         74         1         900-01233           3         320-3-1938         KEPER, BEARING - 1/4"         75         1         300-01233           3         320-3-1938         KEPER, BEARING - 1/4"         75         1         300-01233           8         SFH-SX1.25ZP         Hexagon Socket Flat         76         1         900-01671           ACRAN 1/2 X 1-1/4         SCrew 1/2 X 1-1/4         75         1         900-01671           1         320-2-1217         VALVE         7         1         900-01771           1         900-01415         <	1 320-2-1299 WELDMENT, AUGER LH	WELDMENT, AUGER LH	WELDMENT, AUGER LH		42	1 320-3-2018	SPACER, CHUTE ROTATE	89	1	320-3-1194	KEY, 1/4 X 2
1 320-3-2019   SPACER, CHUTE ROTATE   1 320-3-2019   SPACER, CHUTE ROTATE   1 900-01231   1/2 - 13 X 2-1/4 HHCS GR 5   71   1 320-1-0161   1 320-2-1297   SHEAR, DRIVEN   72   1 905-15024   1 320-2-1297   SHEAR, DRIVEN   73   1 320-3-2065   1 320-3-2065   1 320-3-2065   1 320-3-1938   KEEPER, BEARING - 1/4"   75   1 320-3-2068   SCOUNTESTURE HEAD CAP   75   1 320-3-2068   SCOUNTESTURE HEAD CAP   77   12 900-01109   SCOUNTESTURE HEAD CAP   77   12 900-01107	FLIGHTING	FLIGHTING	FLIGHTING		43	1 320-2-1298	AUGER WLDT, RH	69	2	900-16329	SET SCREW, 1/4NCX3/8
1 320-3-2019         SPACER, CHUTE ROTATE           1 900-01231         1/2 - 13 X 2-1/4 HHCS GR 5         71         1 320-1-0161           3 900-06504         1/2" NC TOPLOCK NUT         72         1 905-15024           1 320-2-1297         SHEAR, DRIVEN         73         1 320-3-2065           1 320-2-1296         TUBE SHEAR W/A - KEVED         73         1 320-3-2065           1 320-2-1296         TUBE SHEAR W/A - KEVED         73         1 320-3-2065           1 320-2-1296         CHAIN STRIPPER         74         1 900-01233           2 SEH-SX1.25ZP         Hexagon Socket Flat         75         1 320-3-2068           2 SGPH-SX1.25ZP         Hexagon Socket Flat         75         1 900-01109           3 SCO-2-1217         DIRECTIONAL CONTROL         76         1 900-01109           2 SGPW JLVE         NALVE         77         12 900-01107           3 JA-10 X 3-1/2 GR 5 HHCS         80         2 900-0117           1 900-01415         3/4-10 K 3-1/4 HEX BOLT         81         3 320-3-1791           1 900-06147         3/4-10 FANGE NUT         82         2 900-06584           1 320-2-1294         MOUNT, CHUTE ROTATE         83         1 SSSH10-32X1.25ZP           2 900-01111         3/8-16 X 1-1/4 GR 5 HHCS         <	5	SPROCKET, 6015 IDLER	SPROCKET, 6015 IDLER				FLIGHTING	2	2	900-16395	3/8NC X3/4 SKT SET
1       900-01231       1/2 - 13 X 2-1/4 HHCS GR 5       71       1       320-1-0161         3       900-06504       1/2" NC TOPLOCK NUT       72       1       905-15024         1       320-2-1297       SHEAR, DRIVEN       73       1       320-3-2065         1       320-2-1296       TUBE SHEAR W/A - KEYED       73       1       320-3-2065         1       320-2-1296       TUBE SHEAR W/A - KEYED       73       1       320-3-2065         3       320-3-1938       KEEPER, BEARING - 1/4"       74       1       900-01233         8       SSFH, SXI, 25ZP       Hexagon Socket Flat       76       1       900-0123         8       SSFH, SXI, 25ZP       Hexagon Socket Flat       76       1       900-0127         1       320-2-1217       DIRECTIONAL CONTROL       76       1       900-01671         2       900-01753       1/2NC X 2 CARRIAGE       77       12       900-01671         1       900-01415       3/4-10 X 3-1/2 GR 5 HHCS       80       2       900-01127         1       900-06147       3/4-10 K 3-1/2 GR 5 HHCS       80       2       900-01674         1       900-06496       1/4-20 TOPLOCK NUT       82       2	1 901-01347 FLANGE BEARING	FLANGE BEARING	FLANGE BEARING		44	1 320-3-2019	SPACER, CHUTE ROTATE				SCREW CUP PT
3 900-06504       1/2" NC TOPLOCK NUT       72       1 905-15024         1 320-2-1297       SHEAR, DRIVEN       73       1 320-3-2065         1 320-2-1296       TUBE SHEAR W/A - KEYED       73       1 320-3-2065         1 320-3-2020       CHAIN STRIPPER       74       1 900-01233         3 320-3-1938       KEEPER, BEARING - 1/4"       75       1 320-3-2068         8 S8FH.5X1.25ZP       Hexagon Socket Flat       75       1 320-3-2068         Countersunk Head Cap       76       1 900-06276         Screw 1/2 X 1-1/4       77       12 900-01109         Screw 1/2 X 1-1/4       77       12 900-01109         VALVE       77       12 900-01109         Screw 1/2 X 1-1/4       77       12 900-01109         VALVE       77       12 900-01101         BOLT GR5       80       2 900-0177         1 900-01415       3/4-10 FLANGE NUT       80       2 900-0127         1 900-06447       3/4-10 FLANGE NUT       81       3 320-3-1791         1 320-2-1294       MOUNT, CHUTE ROTATE       81       1 320-2-1294         1 320-2-1301       IMPELLER GUARD       83       1 580-06579         2 900-011111       3/8-16 X 1-1/4 GR 5 HHCS       89       1 900-06579 <td></td> <td>FHPFTZ205-16</td> <td>FHPFTZ205-16</td> <td></td> <td>45</td> <td>1 900-01231</td> <td>1/2 - 13 X 2-1/4 HHCS GR 5</td> <td></td> <td>1</td> <td>320-1-0161</td> <td>BOBCAT QUICK-TACH KIT</td>		FHPFTZ205-16	FHPFTZ205-16		45	1 900-01231	1/2 - 13 X 2-1/4 HHCS GR 5		1	320-1-0161	BOBCAT QUICK-TACH KIT
1 320-2-129/       SHEAK, DRIVEN         1 320-2-1296       TUBE SHEAR W/A - KEYED       73       1       320-3-2065         1 320-3-1296       TUBE SHEAR W/A - KEYED       74       1       900-01233         3 320-3-1938       KEEPER, BEARING - 1/4"       75       1       320-3-2068         8 S8FH.5X1.25ZP       Hexagon Socket Flat       75       1       320-3-2068         Countersunk Head Cap       76       1       900-06276         Screw 1/2 X 1-1/4       77       12       900-01109         1 320-2-1217       DIRECTIONAL CONTROL       78       6       900-01671         VALVE       77       12       900-01671       70       1         1 900-01415       3/4-10 X 3-1/2 GR 5 HHCS       80       2       900-017701         1 900-06147       3/4-10 FLANGE NUT       81       3       320-3-1791         1 900-06147       3/4-10 FLANGE NUT       82       2       900-06584         1 320-2-1294       MOUNT, CHUTE ROTATE       83       1       SSSH10-32X1.25ZP         1 320-2-1304       MOUNT, CHUTE ROTATE       83       1       S00-06579         2 900-01111       3/8-16 X 1-1/4 GR 5 HHCS       84       1       900-06579 <td>900-06139</td> <td>3/8 NC SERR FLANGE NUT</td> <td>3/8 NC SERR FLANGE NUT</td> <td>- 1</td> <td>46</td> <td>3 900-06504</td> <td>1/2" NC TOPLOCK NUT</td> <td>72</td> <td>1</td> <td>905-15024</td> <td>1/4-28 NF ST. GREASE</td>	900-06139	3/8 NC SERR FLANGE NUT	3/8 NC SERR FLANGE NUT	- 1	46	3 900-06504	1/2" NC TOPLOCK NUT	72	1	905-15024	1/4-28 NF ST. GREASE
1       320-2-1296       TUBE SHEAR W/A - KEYED       73       1       320-3-2065         1       320-3-2020       CHAIN STRIPPER       74       1       900-01233         3       320-3-1938       KEEPER, BEARING - 1/4"       75       1       320-3-2068         8       S8FH.5X1.25ZP       Hexagon Socket Flat       75       1       320-3-2068         Countersunk Head Cap       76       1       900-01709         Screw 1/2 X 1-1/4       77       12       900-01109         VALVE       77       12       900-01671         VALVE       78       6       900-01671         VALVE       79       1       900-01671         1       900-01415       3/4-10 X 3-1/2 GR 5 HHCS       80       2       900-01127         1       900-06147       3/4-10 FLANGE NUT       81       3       320-3-1791         1       900-06496       1/4-20 TOPLOCK NUT       82       2       900-06584         1       320-2-1294       MOUNT, CHUTE ROTATE       83       1       SSSH10-32X1.25ZP         1       320-2-1304       MOUNT, CHUTE ROTATE       83       1       500-06579         2       900-01111       3/8-16 X 1-1/4 GR	900-06143	1/2 NC SERR FLANGE NUI	1/2 NC SERR FLANGE NUI	- 1	4	1 320-2-129/	- 1				ZERK
1       320-3-2020       CHAIN STRIPPER       74       1       900-01233         3       320-3-1938       KEEPER, BEARING - 1/4"       75       1       320-3-2068         8       S8FH.5X1.25ZP       Hexagon Socket Flat       75       1       320-3-2068         1       S00-01032       77       12       900-016276         2       S00-01753       1/2NC X 2 CARRIAGE       79       1       900-01671         1       900-01415       3/4-10 K 3-1/2 GR 5 HHCS       80       2       900-01127         1       900-01415       3/4-10 FLANGE NUT       81       3       320-3-1791         1       900-01011       1/4NC X 1-1/4 HEX BOLT       81       3       320-3-1791         1       900-06496       1/4-20 TOPLOCK NUT       82       2       900-06584         1       300-06496       1/4-20 TOPLOCK NUT       82       2       900-06584         1       320-2-1391       IMPELLER GUARD       83       1       S8SH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       82       1       900-06579	C X 3/4 CARRIAGE	C X 3/4 CARRIAGE	C X 3/4 CARRIAGE	٦	∞	1 320-2-1296	_	73	1	320-3-2065	GUIDE CAP
3       320-3-1938       KEEPER, BEARING - 1/4"       75       1       320-3-2068         8       S8FH.5X1.25ZP       Hexagon Socket Flat       76       1       900-06276         1       320-2-1217       DIRECTIONAL CONTROL       77       12       900-01109         1       320-2-1217       DIRECTIONAL CONTROL       78       6       900-01671         2       900-01753       1/2NC X 2 CARRIAGE       79       1       900-01701         1       900-01415       3/4-10 X 3-1/2 GR 5 HHCS       80       2       900-01127         1       900-06147       3/4-10 FLANGE NUT       81       3       320-3-1791         1       900-06496       1/4-20 TOPLOCK NUT       82       2       900-06584         1       320-2-1294       MOUNT, CHUTE ROTATE       83       1       S8SH10-32X1.25ZP         1       320-2-1301       IMPELLER GUARD       83       1       S8SH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       80       1       900-06579	BOLT			١,	6	1 320-3-2020		7	П	900-01233	1/2-13 X 2-1/2 GR 5 HHCS
8 S8FH.5X1.252P Hexagon Socket Flat 75 1 320-3-2068 Countersunk Head Cap 76 1 900-06276 Screw 1/2 X 1-1/4 77 12 900-01109  1 320-2-1217 DIRECTIONAL CONTROL 78 6 900-01671 VALVE	900-01001 1/4-20 × 1/2 GR 5 HHCS	S	S	ווי	0	3 320-3-1938	KEEPER, BEARING -	ŀ			ZP
1 320-2-1217 DIRECTIONAL CONTROL 2 900-01753 1/2NC X 2 CARRIAGE 1 900-01415 3/4-10 X 3-1/2 GR 5 HHCS 1 900-01415 3/4-10 K 3-1/2 GR 5 HHCS 1 900-01415 1/4NC X 1-1/4 HEX BOLT 1 900-06147 3/4 - 10 FLANGE NUT 1 900-06496 1/4-20 TOPLOCK NUT 1 320-2-1294 MOUNT, CHUTE ROTATE 1 320-2-1301 IMPELLER GUARD 2 900-01111 3/8-16 X 1-1/4 GR 5 HHCS 84 1 900-06579	NECK				21	8 S8FH.5X1.25ZP		75	1	320-3-2068	PINION, CHUTE ROTATE
1 320-2-1217 DIRECTIONAL CONTROL 2 900-01753 1/2NC X 2 CARRIAGE 2 900-01753 1/2NC X 2 CARRIAGE 3/4-10 X 3-1/2 GR 5 HHCS 1 900-01415 3/4-10 X 3-1/2 GR 5 HHCS 1 900-01415 3/4-10 FLANGE NUT 1 900-06147 3/4-10 FLANGE NUT 2 900-01011 1/4NC X 1-1/4 HEX BOLT 3 1 320-3-1791 GR5 1 320-2-1294 MOUNT, CHUTE ROTATE 1 320-2-1301 IMPELLER GUARD 2 900-01111 3/8-16 X 1-1/4 GR 5 HHCS 84 1 900-06579	000	CARR BOLT GRS	CARR BOLT GR5				Countersunk Head Cap	9	1	900-06276	1/2-13 JAM NUT ZP
1 320-2-121/ VALVE 2 900-01753 1/2NC X 2 CARRIAGE 79 1 900-01701 BOLT GR5 1 900-01415 3/4-10 X 3-1/2 GR 5 HHCS 80 2 900-01127 1 900-06147 3/4 - 10 FLANGE NUT 1 900-06147 3/4 - 10 FLANGE NUT 2 900-01011 1/4NC X 1-1/4 HEX BOLT 81 3 320-3-1791 GR5 1 320-2-1294 MOUNT, CHUTE ROTATE 82 2 900-06584 1 320-2-1301 IMPELLER GUARD 83 1 S8SH10-32X1.25ZP 2 900-01111 3/8-16 X 1-1/4 GR 5 HHCS 84 1 900-06579	11 900-0613/ 5/16 NC SERR FLANGE NOT	5/16 NC SERR FLANGE NOT	5/16 NC SEKK FLANGE NUT		2	1 270 2 1717	Screw 1/2 X 1-1/4	\ 2	12	900-01109	3/8-16 X 1 GR 5 HHC5
2 900-01753 1/2NC X 2 CARRIAGE 79 1 900-01701 BOLT GR5 BOLT HIT A FILE BOLT BOLT GR5 BOLT BOLT BOLT GR5 BOLT GR	1 320-3-1428 CHOIE DEFLECTOR FIN 2 900-29114 ROLL PIN, 1/8 X 3/4	ROLL PIN, 1/8 X 3/4	ROLL PIN, 1/8 X 3/4		75	1   320-2-1217	VALVE	∞/	٥	300-016/1	Round Head Square Neck   Bolt 5/16 x 1-1/2"
1       900-01415       3/4-10 X 3-1/2 GR 5 HHCS       80       2       900-01127         1       900-06147       3/4 - 10 FLANGE NUT       81       3       320-3-1791         1       900-01011       1/4NC X 1-1/4 HEX BOLT       81       3       320-3-1791         1       900-06496       1/4-20 TOPLOCK NUT       82       2       900-06584         1       320-2-1294       MOUNT, CHUTE ROTATE       82       1       SSKH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       83       1       SSSH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       84       1       900-06579	900-11186	3/4 SAE FLAT WASHER	3/4 SAE FLAT WASHER	1	53		1/2NC X 2 CARRIAGE	79	1	900-01701	3/8NC X 2-1/2 CARRIAGE
1       900-01415       3/4-10 X 3-1/2 GR 5 HHCS       80       2       900-01127         1       900-06147       3/4 - 10 FLANGE NUT       81       3       320-3-1791         1       900-01011       1/4NC X 1-1/4 HEX BOLT       81       3       320-3-1791         GR5       1/4-20 TOPLOCK NUT       82       2       900-06584         1       320-2-1294       MOUNT, CHUTE ROTATE       83       1       SSSH10-32X1.25ZP         1       320-2-1301       IMPELLER GUARD       83       1       SSSH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       84       1       900-06579	3/8 NC X 2.5 HEX BOLT G5	65	65	- 1			BOLT GR5				BOLT G5
1       900-06147       3/4 - 10 FLANGE NUT       81       3       320-3-1791         1       900-01011       1/4NC X 1-1/4 HEX BOLT       81       3       320-3-1791         1       GR5       2       900-06584         1       320-2-1294       MOUNT, CHUTE ROTATE       83       1       SSSH10-32X1.25ZP         1       320-2-1301       IMPELLER GUARD       83       1       SSSH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       84       1       900-06579	CYLINDER BUSHING	CYLINDER BUSHING		- /	4	1 900-01415	3/4-10 X 3-1/2 GR 5 HHCS	80	2	900-01127	Hex Bolt - UNC (Regular
1       900-01011       1/4NC X 1-1/4 HEX BOLT       81       3 320-3-1791         1       900-06496       1/4-20 TOPLOCK NUT       82       2 900-06584         1       320-2-1294       MOUNT, CHUTE ROTATE       83       1 S8SH10-32X1.25ZP         1       320-2-1301       IMPELLER GUARD       83       1 S8SH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       84       1 900-06579	6   900-11178 - QTY   3/8 SAE FLAT WASHER	3/8 SAE FLAT WASHER		٠,۱	25	1 900-06147	3/4 - 10 FLANGE NUT				Thread - Inch) 3/8 x 3-1/4"
1       900-06496       1/4-20 TOPLOCK NUT       82       2       900-06584         1       320-2-1294       MOUNT, CHUTE ROTATE       83       1       SSSH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       84       1       900-06579	varies as required				99	1 900-01011	1/4NC X 1-1/4 HEX BOLT GR5	81	С	320-3-1791	SHIM, 2 BOLT 205-16 FLANGE BEARING
1       320-2-1294       MOUNT, CHUTE ROTATE       83       1       S8SH10-32X1.25ZP         1       320-2-1301       IMPELLER GUARD       83       1       S8SH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       84       1       900-06579	900-06500 3/8 TOPLOCK NUT- UNC			",	15	1 900-06496	1/4-20 TOPLOCK NUT	85	2	900-06584	Prevailing Torque Type Hex
1       320-2-1301       IMPELLER GUARD       83       1       S8SH10-32X1.25ZP         2       900-01111       3/8-16 X 1-1/4 GR 5 HHCS       84       1       900-06579	2 901-01348 CYLINDRICAL BEARING				28	1 320-2-1294	MOUNT, CHUTE ROTATE				Nut 3/8"
2 900-01111 3/8-16 X 1-1/4 GR 5 HHCS 84 1 900-06579			FHSR205-16		59	1 320-2-1301	IMPELLER GUARD	83	1	S8SH10-32X1.25ZP	Hexagon Socket Head Cap
1 900-06579	11 900-11035 - QTY 1/2" USS FLATWASHER		1/2" USS FLATWASHER		09	2 900-01111	3/8-16 X 1-1/4 GR 5 HHCS				Screw ASTM A574 10-32 X
	Varies as required							8	1	900-06579	1-1/4" Prevailing Torque Type Hex
	10 6905346 WASHER	WASHER	WASHER								Nut No. 10 - 32

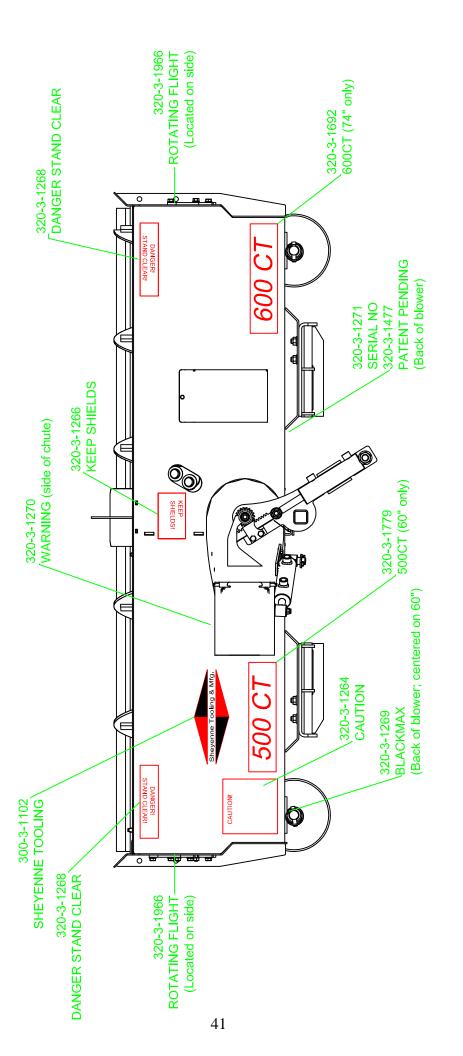


PARTS LIST	DESCRIPTION	RACK GUIDE	RACK GUIDE, MIDDLE	DRIVE SPROCKET,	IMPELLER SHEAR	THRUST WASHER,	IMPELLER SHEAR	External Retaining Rings 2"	3/8 X 3/4 SERR FLANGE	BOLT GR5	SHIM, 2 BOLT 205-16	FLANGE BEARING		KEY, 1/4 X 2	SET SCREW, 1/4NCX3/8	3/8NC X3/4 SKT SET	SCREW CUP PT	BOBCAT QUICK-TACH KIT	1/4-28 NF ST. GREASE	ZERK	GUIDE CAP	1/2-13 X 2-1/2 GR 5 HHCS	ZP	PINION, CHUTE ROTATE	1/2-13 JAM NUT ZP	3/8-16 X 1 GR 5 HHCS	Round Head Square Neck	Bolt 5/16 x 1-1/2"	3/8NC X 2-1/2 CARRIAGE	BOLT G5	Hex Bolt - UNC (Regular	Thread - Inch) 3/8 x 3-1/4"	SHIM, 2 BOLT 205-16	FLANGE BEARING	Prevailing Torque Type Hex	Nut 3/8"		Screw ASTM A574 10-32 X	Prevailing Torque Type Hex	Nut No. 10 - 32
PARTS	PART NUM	2 320-3-2022	1 320-3-2023	1   320-3-1954		1 320-3-1955		1  903-15693	6 900-03436		3 320-3-1790 - QTY	varies as required		1 320-3-1194	2 900-16329	2 900-16395		. 320-1-0161	1 905-15024		1 320-3-2065	1 900-01233		1 320-3-2068	1  900-06276	12   900-01109	6 900-01671		1 900-01701		2 900-01127		3   320-3-1791		2 900-06584		1 S8SH10-32X1.25ZP		1 900-06579	
	ITEM QTY	61	62	63		4		65	99		29			68	69	20 /		71 1	72		73	74		75	1   9/		) 8/		. 67		.` 8		81 3		82		83		48	
TSI	DESCRIPTION	SHIELD, CONTROL VALVE	HYD. CYLINDER	#60-1 roller chain with	connector link & half link	1/4" SERR. FLANGE NUT	OMT DRIVE MOTOR, CT	KEY, 3/8 X 2	1/2 X 1-3/4 GR 5 HHCS	3/16 X 1-1/2 COTTER PIN	IMPELLER SHEAR WLDT	ROTATION CHUTE RACK	DISCHARGE CHUTE CT	SPACER, CHUTE ROTATE	AUGER WLDT, RH	FLIGHTING	SPACER, CHUTE ROTATE	1/2 - 13 X 2-1/4 HHCS GR 5	1/2" NC TOPLOCK NUT	SHEAR, DRIVEN	TUBE SHEAR W/A - KEYED	CHAIN STRIPPER	KEEPER, BEARING - 1/4"	Hexagon Socket Flat	Countersunk Head Cap	Screw 1/2 X 1-1/4	DIRECTIONAL CONTROL	VALVE	1/2NC X 2 CARRIAGE	BOLT GR5	3/4-10 X 3-1/2 GR 5 HHCS	3/4 - 10 FLANGE NUT	1/4NC X 1-1/4 HEX BOLT	GR5	1/4-20 TOPLOCK NUT	MOUNT, CHUTE ROTATE	IMPELLER GUARD	3/8-16 X 1-1/4 GR 5 HHCS		
PARTS I IST	ITEM QTY PART NUMBER	31 1 320-3-1985	32 1 905-21206		903-03062/89	9	35   1  904-05579	36   1  320-3-1092	37 4 900-01227	1	39 1  320-2-1302	1	41   1  320-2-1295	42 1 320-3-2018	43 1 320-2-1298		44 1 320-3-2019	45 1 900-01231	46 3 900-06504	47   1  320-2-1297	48 1 320-2-1296	1	50 3 320-3-1938	51 8 S8FH.5X1.25ZP			52 1 320-2-1217		53 2 900-01753		54 1 900-01415	55   1  900-06147	56 1 900-01011		1	58 1 320-2-1294	59 1 320-2-1301	60 2 900-01111		
TSI	DESCRIPTION	MF WELDMENT, CT	DEFLECTOR WELDMENT	CYLINDER PIN WELDMENT	HYD. CYLINDER	72" CUTTING EDGE	FAN WELDMENT	SKID PLATE WELDMENT	BUSHING, SPACER	7/16 x 1 3/4 Lynch Pin	CENTER DRIVE SHAFT	FLANGE BEARING 2 BOLT	SALFH4 205-16GH4	WELDMENT, AUGER LH	FLIGHTING	SPROCKET, 6015 IDLER	FLANGE BEARING	FHPFTZ205-16	3/8 NC SERR FLANGE NUT	1/2 NC SERR FLANGE NUT	3/8NC X 3/4 CARRIAGE	BOLT	$1/4-20 \times 1/2$ GR 5 HHCS	5/16 X 3/4 SHRT NECK	CARR BOLT GR5	5/16 NC SERR FLANGE NUT	CHUTE DEFLECTOR PIN	ROLL PIN, 1/8 X 3/4	3/4 SAE FLAT WASHER	3/8 NC X 2.5 HEX BOLT G5	CYLINDER BUSHING	3/8 SAE FLAT WASHER			3/8 TOPLOCK NUT- UNC	CYLINDRICAL BEARING	FHSR205-16	1/2" USS FLATWASHER		WASHER
PARTS 11ST	ITEM QTY PART NUMBER	1 320-2-1300	2 1 320-2-1139	1	4 1 905-21206	5 1 320-3-1959	6   1  320-2-1303	7 2 320-2-1187	8   12   320-3-1445	9 2 900-25012	10   1   320-3-1984	11 3 901-01346		12   1   320-2-1299		13 2 320-3-1286	14 1 901-01347		15 16 900-06139	13	17 2 900-01694		9	19 5 900-01668		11	1	2	10	24 2 900-01121	25 1 320-3-1450	26 6 900-11178 - QTY	varies as required		27 3 900-06500			29 11 900-11035 - QTY	varies as required	30 10 6905346



PARTS LIST	DESCRIPTION	RACK GUIDE	RACK GUIDE, MIDDLE	DRIVE SPROCKET,	IMPELLER SHEAR	THRUST WASHER,	IMPELLER SHEAR	External Retaining Rings 2"	3/8 X 3/4 SERR FLANGE	BOLT GR5	SHIM, 2 BOLT 205-16	FLANGE BEARING		KEY, 1/4 X 2	SET SCREW, 1/4NCX3/8	3/8NC X3/4 SKT SET	SCREW CUP PT	BOBCAT QUICK-TACH KIT	1/4-28 NF ST. GREASE	ZERK	GUIDE CAP	1/2-13 X 2-1/2 GR 5 HHCS	ZP	PINION, CHUTE ROTATE	1/2-13 JAM NUT ZP	3/8-16 X 1 GR 5 HHCS	Round Head Square Neck	Bolt 5/16 x 1-1/2"	3/8NC X 2-1/2 CARRIAGE	BOLT G5	Hex Bolt - UNC (Regular	Thread - Inch) 3/8 x 3-1/4"	SHIM, 2 BOLT 205-16	FLANGE BEARING	Prevailing Torque Type Hex	Nut 3/8"		Screw ASTM A574 10-32 X	Prevailing Torque Type Hex	Nut No. 10 - 32
PARTS	PART NUM	2 320-3-2022	1 320-3-2023	1   320-3-1954		1 320-3-1955		1  903-15693	6 900-03436		3 320-3-1790 - QTY	varies as required		1 320-3-1194	2 900-16329	2 900-16395		. 320-1-0161	1 905-15024		1 320-3-2065	1 900-01233		1 320-3-2068	1  900-06276	12   900-01109	6 900-01671		1 900-01701		2 900-01127		3   320-3-1791		2 900-06584		1 S8SH10-32X1.25ZP		1 900-06579	
	ITEM QTY	61	62	63		4		65	99		29			68	69	20 /		71 1	72		73	74		75	1   9/		) 8/		. 67		.` 8		81 3		82		83		48	
TSI	DESCRIPTION	SHIELD, CONTROL VALVE	HYD. CYLINDER	#60-1 roller chain with	connector link & half link	1/4" SERR. FLANGE NUT	OMT DRIVE MOTOR, CT	KEY, 3/8 X 2	1/2 X 1-3/4 GR 5 HHCS	3/16 X 1-1/2 COTTER PIN	IMPELLER SHEAR WLDT	ROTATION CHUTE RACK	DISCHARGE CHUTE CT	SPACER, CHUTE ROTATE	AUGER WLDT, RH	FLIGHTING	SPACER, CHUTE ROTATE	1/2 - 13 X 2-1/4 HHCS GR 5	1/2" NC TOPLOCK NUT	SHEAR, DRIVEN	TUBE SHEAR W/A - KEYED	CHAIN STRIPPER	KEEPER, BEARING - 1/4"	Hexagon Socket Flat	Countersunk Head Cap	Screw 1/2 X 1-1/4	DIRECTIONAL CONTROL	VALVE	1/2NC X 2 CARRIAGE	BOLT GR5	3/4-10 X 3-1/2 GR 5 HHCS	3/4 - 10 FLANGE NUT	1/4NC X 1-1/4 HEX BOLT	GR5	1/4-20 TOPLOCK NUT	MOUNT, CHUTE ROTATE	IMPELLER GUARD	3/8-16 X 1-1/4 GR 5 HHCS		
PARTS I IST	ITEM QTY PART NUMBER	31 1 320-3-1985	32 1 905-21206		903-03062/89	9	35   1  904-05579	36   1  320-3-1092	37 4 900-01227	1	39 1  320-2-1302	1	41   1  320-2-1295	42 1 320-3-2018	43 1 320-2-1298		44 1 320-3-2019	45 1 900-01231	46 3 900-06504	47   1  320-2-1297	48 1 320-2-1296	1	50 3 320-3-1938	51 8 S8FH.5X1.25ZP			52 1 320-2-1217		53 2 900-01753		54 1 900-01415	55   1  900-06147	56 1 900-01011		1	58 1 320-2-1294	59 1 320-2-1301	60 2 900-01111		
TSI	DESCRIPTION	MF WELDMENT, CT	DEFLECTOR WELDMENT	CYLINDER PIN WELDMENT	HYD. CYLINDER	72" CUTTING EDGE	FAN WELDMENT	SKID PLATE WELDMENT	BUSHING, SPACER	7/16 x 1 3/4 Lynch Pin	CENTER DRIVE SHAFT	FLANGE BEARING 2 BOLT	SALFH4 205-16GH4	WELDMENT, AUGER LH	FLIGHTING	SPROCKET, 6015 IDLER	FLANGE BEARING	FHPFTZ205-16	3/8 NC SERR FLANGE NUT	1/2 NC SERR FLANGE NUT	3/8NC X 3/4 CARRIAGE	BOLT	$1/4-20 \times 1/2$ GR 5 HHCS	5/16 X 3/4 SHRT NECK	CARR BOLT GR5	5/16 NC SERR FLANGE NUT	CHUTE DEFLECTOR PIN	ROLL PIN, 1/8 X 3/4	3/4 SAE FLAT WASHER	3/8 NC X 2.5 HEX BOLT G5	CYLINDER BUSHING	3/8 SAE FLAT WASHER			3/8 TOPLOCK NUT- UNC	CYLINDRICAL BEARING	FHSR205-16	1/2" USS FLATWASHER		WASHER
PARTS 11ST	ITEM QTY PART NUMBER	1 320-2-1300	2 1 320-2-1139	1	4 1 905-21206	5 1 320-3-1959	6   1  320-2-1303	7 2 320-2-1187	8   12   320-3-1445	9 2 900-25012	10   1   320-3-1984	11 3 901-01346		12   1   320-2-1299		13 2 320-3-1286	14 1 901-01347		15 16 900-06139	13	17 2 900-01694		9	19 5 900-01668		11	1	2	10	24 2 900-01121	25 1 320-3-1450	26 6 900-11178 - QTY	varies as required		27 3 900-06500			29 11 900-11035 - QTY	varies as required	30 10 6905346





60" / Model 500
And

74" / Model 600

Decal Locations



















# **DECALS**

ITEM	QTY – 60"	QTY - 74"	PART NO.	DESCRIPTION						
1	2	2	320-3-1268	Decal, Danger Stand Clear						
2	1	1	320-3-1264	Decal, Caution						
3	1	-	320-3-1779	Decal, 500 CT - 60"						
4	-	1	320-3-1692	Decal, 600 CT - 74"						
5	1	1	320-3-1266	Decal, Keep Shields in Place						
6	1	1	320-3-1270	Decal, Warning						
7	1	1	320-3-1269	Decal, Black Max						
8	2	2	320-3-1966	Decal, Rotating Flighting Hazard						
9	1	1	320-3-1477	Decal, Patent Pending						
10	1	1	300-3-1102	Decal, STAM Logo						

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