



# GP-50<sup>TM</sup> GRAIN PROCESSOR

# Operating Instructions and Parts Reference













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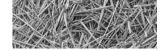
DuraTech Industries International Inc. (DuraTech Industries) has made every effort to assure that this manual completely and accurately describes the operation and maintenance of the GP-50 Grain Processor as of the date of publication. DuraTech Industries reserves the right to make updates to the machine from time to time. Even in the event of such updates, you should still find this manual to be appropriate for the safe operation and maintenance of your unit.

This manual, as well as materials provided by component suppliers to DuraTech Industries are all considered to be part of the information package. Every operator is required to read and understand these manuals, and they should be located within easy access for periodic review.

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### **Foreword**

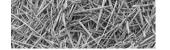
All personnel must read and understand the following sections before operating the GP-50 Grain Processor.

- Foreword and Section 1, important safety information.
- Section 2, "Machine operation," which explains normal operation of the machine.
- Section 2.1, "Pre-Operation Inspection".

#### Appropriate use of unit

The GP-50 Grain Processor is designed to grind material into more palatable or manageable rations for your operation. It has multiple uses:

- 1. Grind most types of grain
  - Ear corn
  - Shell corn
  - High moisture corn
  - Most small grains
- 2. Grind various sizes
  - Screens are available from 1/8" to 8"
  - Combine screen sizes to get desired cut

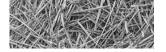


#### **Operator protection**

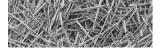
As with all machinery, care needs to be taken in order to insure the safety of the operator and those in the surrounding area.



**WARNING:** The **OPERATOR IS RESPONSIBLE** for the safety of the operator and those in the surrounding area. Operators and those observing the operation of the GP-50 Grain Processor are required to wear head, eye, and ear protection, No loose clothing is allowed.

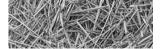


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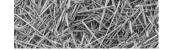
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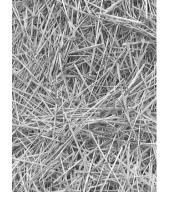


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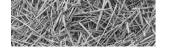
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# GP-50<sup>™</sup> GRAIN PROCESSOR

Part 1: Operating Instructions



## Introduction

The GP-50 Grain Processor is designed to grind material into more palatable or manageable rations for your operation. It has multiple uses:

- 1. Grind most types of grain
  - Shell corn
  - High moisture corn
  - Most small grains
- 2. Grind various sizes
  - Screens are available from 1/8" to 8"
  - Combine screen sizes to get desired cut

To avoid possible damage to the machine and risk of injury to the operator, consult with a DuraTech Industries International, Inc. (DuraTech Industries) representative before attempting to process materials other than grain.

#### **Purpose**

The purpose of this owner's manual is to explain maintenance requirements and routine adjustments for the most efficient operation of your GP-50 Grain Processor. There is also a trouble shooting section that may help in case of problems in the field. Any information not covered in this manual may be obtained from your dealer.



**Special Note:** When reference is made as to front, rear, left hand, or right hand of this machine, the reference is always made from standing at the rear end of the machine and looking toward the hitch. Always use serial number and model number when referring to parts or problems. Please obtain your serial number and write it below for your future reference.

MODEL: GP-50 Grain Processor SERIAL NO.

#### How to use this manual

#### **Manual organization**

This manual is organized into the following parts:

- Part 1: Operating Instructions
  - Section 1: Safety decals, safety instructions and information
  - **Section 2:** Tells how to use the GP-50 Grain Processor.

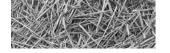
- - **Section 3:** Describes how to maintain the GP-50 Grain Processor.
  - **Section 4:** Tells how to troubleshoot GP-50 Grain Processor.
  - Part 2: Part's reference contains diagrams of each assembly, with the part number of each part. A key on the same or facing page contains a description of the part and the quantity used.

#### **Dealer responsibilities**

- Upon delivery of the unit to the customer, it is your responsibility to conduct a training session on the safe operation of the unit for the primary operator(s). You must also conduct a "walk-around" inspection of all safety instructional decals on the machine itself. Decals are illustrated in **Part 2: Parts Reference.**
- Complete and return the Warranty Registration postcard. DuraTech Industries must receive this form before activating the warranty. Appendix A provides details of the warranty.

#### **Operator responsibilities**

- Note the important safety information in the Foreword and in Section 1, "Safety."
- Thoroughly review sections 1 and 2, which explain normal operation of the machine, and section 3, which explains maintenance requirements. These sections will function as your textbook during the dealer-conducted training course that is required before you can use the unit.
- Manuals for certain allied supplier's components are provided separately. You should also be familiar with their contents.
- Keep copies of all manuals in a readily accessible location for future reference.



## **Section 1: Safety**

The safety of the operator is of great importance to DuraTech Industries/Haybuster. We have provided decals, shield and other safety features to aid you in using your machine safely. In addition, we ask you to be a careful operator who will properly use and service your Haybuster equipment.



WARNING: FAILURE TO COMPLY WITH SAFETY INSTRUCTIONS THAT FOLLOW WITHIN THIS MANUAL COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH. BEFORE ATTEMPTING TO OPERATE THIS MACHINE, CAREFULLY READ ALL INSTRUCTIONS CONTAINED WITHIN THIS MANUAL. ALSO READ THE INSTRUCTION MANUAL PROVIDED WITH YOUR TRACTOR.

THIS MACHINE IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THOSE EXPLAINED IN THE OPERATOR'S MANUAL, ADVERTISING LITERATURE OR OTHER DURATECH INDUSTRIES WRITTEN MATERIAL PERTAINING TO THE GP-50 GRAIN PROCESSOR

#### 1.1 Safety-alert symbols

Decals are illustrated in Part 2: Parts Reference.

The safety decals located on your machine contain important and useful information that will help you operate your equipment safely.

To assure that all decals remain in place and in good condition, follow the instructions below:

- Keep decals clean. Use soap and water not mineral spirits, adhesive cleaners and other similar cleaners that will damage the decal.
- Replace all damaged or missing decals. When attaching decals, surface temperature of the machine must be at least 40° F (5° C). The surface must be also be clean and dry.
- When replacing a machine component to which a decal is attached, be sure to also replace the decal.
- Replacement decals can be purchased from your Haybuster dealer.

DuraTech Industries uses industry accepted **ANSI** standards in labeling its products for safety and operational characteristics.



# **Safety-Alert Symbol**

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

**DANGER:** Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.



#### **DANGER:**

Signal word - White Lettering/Red Background Safety Alert Symbol - White Triangle/Red Exclamation Point

**WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



#### WARNING:

Signal word - Black Lettering/Orange Background Safety Alert Symbol - Black Triangle/Orange Exclamation Point

**CAUTION:** Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



#### **CAUTION:**

Signal word - Black Lettering/Yellow Background Safety Alert Symbol - Black Triangle/Yellow Exclamation Point

This manual uses the symbols to the right to denote important safety instructions and information.

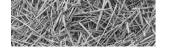
The **DANGER**, **WARNING** and **CAUTION** symbols are used to denote conditions as stated in the text above. Furthermore, the text dealing with these situations is surrounded by a box with a white background, will begin with **DANGER**, **WARNING**, or **CAUTION**.

The **INFORMATION** symbol is used to denote important information or notes in regards to maintenance and use of the machine. The text for this information is surrounded by a box with a light grey background, and will begin with either **IMPORTANT** or **NOTE**.









#### 1.2 Operator - personal equipment

#### THE OPERATOR

#### **Physical Condition**

You must be in good physical condition and mental health and not under the influence of any substance (drugs, alcohol) which might impair vision, dexterity or judgment.

Do not operate a **GP-50 Grain Processor** when you are fatigued. Be alert - If you get tired while operating your **GP-50 Grain Processor**, take a break. Fatigue may result in loss of control. Working with any farm equipment can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating

#### **Proper Clothing**



Clothing must be sturdy and snug-fitting, but allow complete freedom of movement. Avoid loosefitting jackets, scarfs, neckties, jewelry, flared or cuffed pants, unconfined long hair or anything that could become entangled with the machine.



Protect your hands with gloves when handling hammers, screens, etc.. . Heavy-duty, nonslip gloves improve your grip and protect your hands.



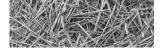
Good footing is most important. Wear sturdy boots with nonslip soles. Steel-toed safety boots are recommended.



To reduce the risk of injury to your eyes never operate a **GP-50 Grain Processor**.unless wearing goggles or properly fitted safety glasses with adequate top and side protection.



Tractor noise may damage your hearing. Always wear sound barriers (ear plugs or ear mufflers) to protect your hearing. Continual and regular users should have their hearing checked regularly.



#### 1.3 Machine safety labels

The safety decals located on your machine contain important information that will help you operate your equipment. Become familiar with the decals and their locations.



**DANGER:** ROTATING PARTS WITHIN CAN KILL OR DISMEMBER. WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING, UNLOADING, OR INSPECTING MACHINE.

A DANGER

ROTATING PARTS WITHIN CAN KILL OR DISMEMBER
WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING,
UNCLOGGING OR INSPECTING MACHINE

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6500082



**DANGER:** ROTATING DRIVELINE, CONTACT CAN CAUSE DEATH, KEEP AWAY!

DO NOT OPERATE WITHOUT

- ALL DRIVELINE GUARDS, TRACTOR AND EQUIPMENT SHIELDS IN PLACE
- DRIVELINES SECURELY ATTACHED AT BOTH ENDS
- DRIVELINE GUARDS THAT TURN FREELY ON DRIVELINE



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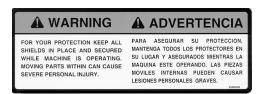
**DANGER:** OBJECTS THROWN BY MACHINE DO NOT OPERATE GRINDER WITH THE PLATFORM IN THE RAISED POSITION



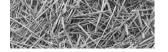
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**WARNING:** FOR YOUR PROTECTION KEEP ALL SHIELDS IN PLACE AND SECURED WHILE MACHINE IS OPERATING MOVING PARTS WITHIN CAN CAUSE SEVERE PERSONAL INJURY.



6500040





WARNING: FOR YOUR PROTECTION AND PROTECTION OF OTHERS, PRACTICE THE **FOLLOWING SAFETY RULES.** 

- 1. BEFORE OPERATING THIS MACHINE, READ THE OPERATOR'S MANUALS SUPPLIED WITH THIS MACHINE AND YOUR TRACTOR.
- 2. CHECK OPERATORS MANUALS TO BE SURE YOUR TRACTOR MEETS THE MINIMUM REQUIREMENTS FOR THIS MACHINE.
- 3. READ ALL DECALS PLACED ON THIS MACHINE FOR YOUR SAFETY AND CONVENIENCE.
- 4. NEVER ALLOW RIDERS ON THIS IMPLEMENT OR THE TRACTOR.
- 5. KEEP OTHERS AWAY FROM THIS MACHINE WHILE IN OPERATION.
- 6. KEEP ALL SHIELDS IN PLACE WHILE MACHINE IS OPERATING.
- 7. KEEP HANDS, FEET, LOOSE CLOTHING, ETC., AWAY FROM POWER DRIVEN PARTS.
- 8. ALWAYS SHUT OFF MACHINE AND ENGINE BEFORE SERVICING, UNCLOGGING, INSPECTING, OR WORKING NEAR THIS MACHINE FOR ANY REASON. ALWAYS PLACE TRANSMISSION IN PARK OR SET PARK BRAKE AND WAIT FOR ALL MOVEMENT TO STOP BEFORE APPROACHING THIS MACHINE.

#### **WARNING**

FOR YOUR PROTECTION AND SAFETY OF OTHERS, FOLLOW THESE SAFETY RULES.

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#### **A** ADVERTENCIA

PARA SU PROTECCIÓN Y LA SEGURIDAD DE OTRO OBSERVE ESTAS NORMAS DE SEGURIDAD

- omprende al manual cell operador antes de operar la maquina, le lodos los controles an punto netutre, apaque el motor cettre la de enamedia, civer la alimentación de selectricador y espore a qui cega tado el movimiente ambs da proceder al servicio, ejiste, cidir el desendivateo.

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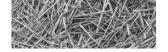


WARNING: NO RIDERS

SERIOUS INJURY COULD RESULT FROM RIDING ON THE MACHINE.



6500043





#### WARNING: THROWN OBJECT HAZARD

TO PREVENT SERIOUS INJURY OR DEATH DO NOT RAISE TUB WHEN ROTOR IS TURNING.

- 1. DISENGAGE ROTOR AND ALLOW TO COME TO A COMPLETE STOP.
- 2. BE CERTAIN THAT ALL PERSONNEL ARE CLEAR OF MACHINERY AREA.
- 3. RAISE TUB TO FULL VERTICAL POSITION.
- 4. STOP ENGINE AND REMOVE KEY BEFORE APPROACHING TUB AND ROTOR AREA.



6500209



# **WARNING: OVERHEAD CONVEYOR HAZARD**TO PREVENT SERIOUS INJURY OR DEATH:

DO NOT WALK UNDER CONVEYOR AT ANY TIME. STAY CLEAR OF CONVEYOR DURING OPERATION, RAISING, AND LOWERING. LOWER CONVEYOR FULLY BEFORE SERVICING.

KEEP OTHERS AWAY.



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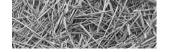


## WARNING: HIGH-PRESSURE FLUID HAZARD, TO PREVENT SERIOUS INJURY OR DEATH:

- RELIEVE PRESSURE ON SYSTEM BEFORE REPAIRING OR ADJUSTING OR DISCONNECTING.
- WEAR PROPER HAND AND EYE PROTECTION WHEN SEARCHING FOR LEAKS. USE WOOD OR CARDBOARD INSTEAD OF HANDS.
- KEEP ALL COMPONENTS IN GOOD REPAIR.



6500220





**CAUTION: KEEP WHEEL BOLTS TIGHT.** 

**CAUTION:** ADJUST TRACTOR DRAWBAR SO THAT THE DISTANCE FROM THE END OF THE P.T.O. SHAFT ON THE TRACTOR TO THE CENTER OF THE DRAWBAR HITCH PIN IS 16".

# KEEP WHEEL BOLTS TIGHT

MANTENER AJUSTADOS LOS PERNOS DE LA RUEDA

6500042



#### **▲** CAUTION

ADJUST TACTOR DRAWBAR SO THAT
THE DISTANCE FROM THE END OF THE
PTO SHAFT ON THE TRACTOR TO THE
CENTER OF THE DRAWBAR HITCH PIN
IS 16".



#### A PRECAUCIÓN

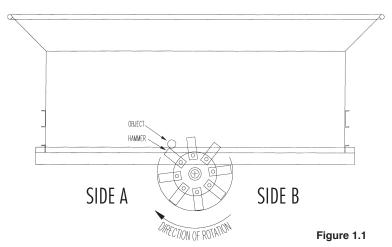
AJUSTE LA BARRA DE TRACCIÓN DE EL TRACTOR A LA DISTANCIA DE 16 PULGADAS DE LA PUNTA DEL ÁRBOL MOTOR (PTO) EN EL TRACTOR AL CENTRO DE LA CLAVIA DE ENGANCHO EN LA BARRA DE TRACCIÓN.

6500057

#### 1.4 Thrown objects and operator safety

An operational characteristic of all grinders is that objects may be thrown out of the hopper. Thrown objects may present a safety hazard to persons in the area. This section is to inform the operator of this characteristic, and what can be done to reduce the risk of injury to the operator and persons in the area. Keep all observers away from the machine.

Figure 1.1 shows an object being hit as the hammer is on the upswing. A general pattern for where thrown objects may land is shown in Figure 1.2.

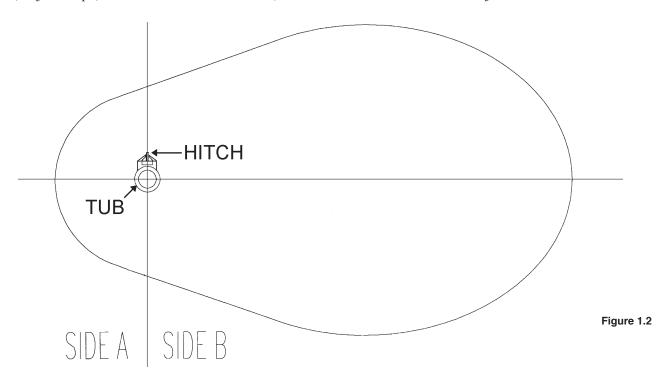


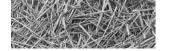
**VIEWED FROM THE REAR OF THE GP-50** 



**NOTE:** The difference in the size of the area for side A versus side B. Side B is larger.

Dimensioning the size of this area is not practical. The distance a thrown object may travel is dependent on several conditions, including, but not limited to, rotor speed and diameter, condition of the hammers, style of hammers, object mass, object shape, amount of material in the tub, and how the hammer strikes the object.





The amount of material in the tub can dampen or stop the object's potential flight. Keeping the tub full will reduce the risks. Filling the tub at least 1/2 full when starting will reduce the risk. A risk may arise when the tub is being emptied, such as at the end of the grind. Running the engine at slower speeds when starting or finishing the grind will also help, especially slowing down when emptying the tub.



**WARNING:** To minimize the potential risk of injury or property damage, the operator must:

- a) Place side B towards open areas, away from property and people.
- b) Load the grinder from side A with a loader equipped with an enclosed cab.
- c) Keep observers out of the area.
- d) Wear a hard hat and safety glasses, at a minimum, and require that any other persons in the area are similarly equipped.

#### 1.5 Shielding

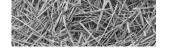
This GP-50 Grain Processorr is equipped with shielding at all major points of potential injury. All shields should be kept in place during operation. Bodily injury may occur if the unit is operated without shields.



**WARNING:** Shields are installed for your protection and to keep material off machine parts. Do not operate this Grain Processor without shields in place.

#### 1.6 Personal protection equipment

Operators and authorized observers of the GP-50 Grain Processor are required to wear head, eye, and ear protection. No loose clothing is allowed.



#### 1.7 Safety Review



**WARNING:** Before attempting to operate your GP-50 Grain Processor, carefully read and follow instructions given below and contained elsewhere in this manual.

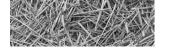
#### **BEFORE OPERATING**

- 1. Read and follow all instructions contained in:
  - Operators Manual
  - Tractor Operators Manual
  - Decals placed on GP-50 Grain Processor.



**NOTE:** Your dealer has additional copies of these materials.

- 2. Allow only properly instructed, responsible individuals to operate your machine. Carefully supervise inexperienced operators.
- 3. Use a tractor that meets the requirements contained in this manual. See Appendix C, Required for Operation, page 46.
- 4. Make sure the GP-50 Grain Processor is in good operating condition and that all protective shields are in place and in proper working order. Replace damaged shields before operating.
- 5. Be sure all bystanders and other workers are clear before starting tractor and grinder.
- 6. Make no modifications to the GP-50 Grain Processor unless specifically recommended or requested by DuraTech Industries.
- 7. Check periodically for broken or worn parts and make necessary repairs.
- 8. Be sure the unit is securely attached to tractor during grinder operation and road transport.



#### **DURING OPERATION**

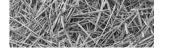
- 1. Enforce the following safety precautions to prevent serious personal injury.
  - Keep everyone clear of work area except operator seated at tractor controls.
  - Never work on or near processor unless engine is off, and all motion has stopped.
  - Disengage PTO before starting engine.
- 2. Power take off shafts must be locked in place with protective PTO shields in place.
- 3. Keep hands, feet, and clothing away from power driven parts.
- 4. Keep shields in place and in good condition.
- 5. Watch out for and avoid any object that might interfere with the proper operation of the machine.
- 6. Loose clothing, necklaces, and similar items are more easily caught in moving parts. Avoid the use of these items and keep long hair confined.

#### NORMAL SHUTDOWN PROCEDURE



**WARNING:** For your safety and the safety of others, you must use the following normal shutdown procedure before leaving the controls unattended for any reason, including servicing, cleaning, or inspecting. A variation of the following procedure may be used if so instructed within this manual or if an extreme emergency requires it.

- 1. Run GP-50 Grain Processor until discharge conveyor is empty, and grind as much of the material in the hopper as possible.
- 2. Reduce engine speed to idle.
- 3. Disengage PTO
- 4. Disengage hydraulics.
- 5. Place transmission in park and set parking brake.
- 6. Shut off tractor engine and remove key.
- 7. Wait for all movement to stop.
- 8. Disconnect PTO driveline from tractor.



#### 1.8 Fire Prevention

Grinding matrials with a grain processor produces a large amount of potentially combustible material. The risks of fire can be significantly reduced with proper operating and maintenance procedures. This does include frequent removal of dust, debris, and other combustible materials.

Most of the products that are ground are dry and the grinding process can produce fine, dusty material. The grinding process can produce heat and the spinning rotor will circulate air within the grinding chamber. For a fire to start, fuel, oxygen and heat in sufficient quantity, must be present. During normal operation and with a properly maintainedgrain processor, the material being ground will move through the grinding chamber so quickly that it doesn't have a chance to heat up sufficiently to start a fire. Also, the rapid rate that a tub grinder can pile material will quickly smother small hot spots that might occur during normal grinding operations. Keeping the material moving through the machine and across the top of the rotor is important to keep frictional heating of the material to a minimum.

**NEVER** leave the vicinity of the unit with the engine running.

#### REMOVAL AND CLEANING INSTRUCTIONS:

- Check the rotor box for debris built up around the rotor. Remove material that may be packed tight near the bearings, on shaft or other rotating components because it will become hot due to friction.
- At shutdown, always clean and remove all dust, debris, or combustible material off the entire processor. Use high-pressure air or water if necessary. Always move the processor and all other equipment away from the ground material pile before leaving the job site in case of smoldering combustion in the ground material.

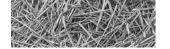
#### **MAINTENANCE:**

- Repair any fuel or hydraulic leaks as quickly as they are discovered. Clean up spills immediately. Fuel or oil soaked materials can contribute significantly to the rapid spreading of a fire once it has begun.
- Contact between the rotor and any stationary component of the grinding chamber such as contact between the hammers and the screens must be corrected immediately.

#### 1.9 Fire Extinguishers:

The fire extinguishers should be ABC dry chemical extinguishers that are appropriate for use with materials normally encountered on a tub grinder.

If a fire does start, <u>CALL THE LOCAL FIRE DEPARTMENT IMMEDIATELY</u>. Then, use the fire extinguisher if you feel confident that you can extinguish the fire. A 10# extinguisher will last about 15-20 seconds and a 20# extinguisher will last about 20-24 seconds, so they will not stop a large fire. The fire extinguishers should be at least 10#, but the preferred are 20#.



#### When using a fire extinguisher, use the PASS method:

- Approach the fire with the wind at your back.
- Pull the pin,
- <u>Aim the spout,</u>
- Squeeze the trigger, and
- Sweep along the base of the fire from about 6-8 feet away.

Read the label on your extinguisher <u>now</u>, most extinguishers have descriptions of this method, and an estimated working time.

If an extinguisher is only partially used, the dry chemical will jam in the seals, allowing the extinguisher to loose its pressure charge in less than an hour, making it useless to you. It must be recharged before placing it back on the machine. Have the extinguisher recharged <u>today</u>; a fire will not wait for you to recharge your extinguisher tomorrow!

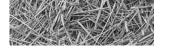
Fire extinguishers should be inspected and recharged by a professional at least annually to keep them at optimum performance! A "verification of service" collar that confirms the month and year of service should be attached to the neck of the container to confirm when the extinguisher was last serviced.

#### 1.10 Towing



**CAUTION: DO NOT TRANSPORT THE GP-50 Grain Processor** without first securing the conveyor in the transport position (see 2.6.1, page 26).

- 1. Be sure all loose parts are securely fastened down.
- 2. Make sure all bystanders are clear.
- 3. Hitch GP-50 Grain Processor to a tow vehicle with adequate load carrying and braking capacity. Be sure to attach safety chains between tow vehicle and GP-50 Grain Processor. Tongue weight is 1,600 lbs with small hopper and loading auger.
- 4. Pull PTO apart and attach to transport bracket on the right hand side of the grinder.
- 5. Ensure that hitch jack is in the up position.
- 6. Check the turning clearance between GP-50 Grain Processor and the towing vehicle.
- 7. Check local ordinances regarding restrictions for GP-50 Grain Processor travel on your planned route.
- 8. Be aware of machine width at all times and do not exceed 20 miles per hour.
- 9. Check your state laws regarding the use of lights, slow moving vehicle signs, and other possible requirements.
- 10. Use good judgment and drive carefully, especially over rough and uneven roads.



#### 1.11 Service and maintenance



**WARNING:** Before performing any maintenance on the machine or getting into the hopper, be sure rotor and all moving parts have come to a complete stop. Shut off engine and remove the key.

Before working on or near the Grain Processoror any reason such as servicing, inspecting or unclogging the machine:

- Follow the normal shutdown procedure found on page 25 of this manual.
- If the unit is still attached to a towing vehicle, place the towing vehicle's transmission in park and set the parking/emergency brake.
- Relieve all pressure in the hydraulic system before disconnecting hydraulic lines or performing work on the system. Make sure all connections are tight and the hoses and lines are in good condition before applying pressure to the system.



**WARNING**: Hydraulic fluid escaping under pressure can be invisible and have enough force to penetrate the skin. When searching for a suspected leak, use a piece of wood or a cardboard rather than your hands. If injured, seek medical attention immediately to prevent serious infection or reaction.

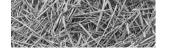


**WARNING: NEVER** engage tractor PTO when the hopper is raised.



WARNING: FAILURE TO COMPLY WITH SAFETY INSTRUCTIONS THAT FOLLOW WITHIN THIS MANUAL COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH. BEFORE ATTEMPTING TO OPERATE THIS MACHINE, CAREFULLY READ ALL INSTRUCTIONS CONTAINED WITHIN THIS MANUAL. ALSO READ THE INSTRUCTION MANUAL PROVIDED WITH YOUR TRACTOR.

THIS MACHINE IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THOSE EXPLAINED IN THE OPERATOR'S MANUAL, ADVERTISING LITERATURE OR OTHER DURATECH INDUSTRIES WRITTEN MATERIAL PERTAINING TO THE GP-50 GRAIN PROCESSOR.



# **Section 2: Operation**

There is no substitute for a sound preventive maintenance program and a well trained operator.

To insure the long life and economical operation, learn how to operate the GP-50 Grain Processor and how to use the controls properly. Thoroughly instruct the operator in maintenance and operation of the GP-50 Grain Processor.

#### 2.1 Pre-Operating Inspection

Prior to the starting the GP-50 Grain Processor, make a visual inspection of the machine. This can be done when lubricating the machine. Any items that are worn, broken, missing or needing adjustment must be serviced accordingly before operating the GP-50 Grain Processor.



**WARNING:** Before inspecting the machine, use the normal shutdown procedure found on page 25.

#### **BEFORE OPERATING CHECKS**

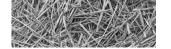
Before operating the GP-50 Grain Processor, follow these instructions:

- Read and understand the operator's manual.
- Learn how to operate the controls properly. Do not let anyone operate without instruction.
- Know the machine's safety features and understand the safety precautions.
- Be sure the machine is hitched properly to the tractor.
- Be sure to lubricate all lubrication points. See lubrication chart, page 33.
- Check for loose bolts.
- Make sure machine is properly adjusted.
- Check hydraulic oil level.
- Check hydraulic components for leaks or damage.



**WARNING**: Hydraulic fluid escaping under pressure can be almost invisible and can have sufficient force to penetrate the skin. When searching for suspected leaks, use a piece of wood or cardboard rather than your hands. If injured, seek medical attention immediately to prevent serious infection or reaction.

- Visually examine rotor to see is any parts have excessive wear. These parts include shaft, plates, rods, hammers and moveable plates.
- Check screens and screen hold downs for wear and tightness.
- Check installation and condition of hammers.



- Visually examine rotor bearings and mounting bolts.
- Check all bearings for wear.
- Check chains and belts for proper tension and condition.
- Make sure all shields and guards are in place.
- Condition of decals.
- Lug nuts for tightness.
- Condition of rims and tires.
- Check tires for proper air pressure.
- Always grind with the machine and tractor stationary on level ground.
- In cold weather, allow five minutes for the machine to warm up before grinding.
- Watch for unusual or excessive vibration. If any occur, immediately shut off the power. Check to see what is wrong and correct it before starting the processor again.

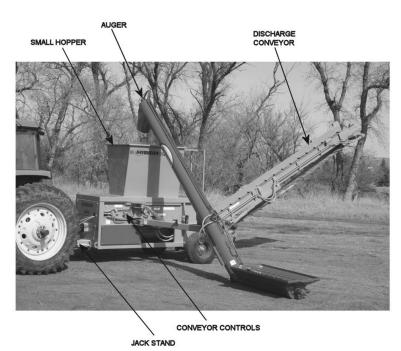
#### 2.2 Introduction to the machine

#### 2.2.1 Description of the GP-50 Grain Processor

The GP-50 Grain Processor is designed to grind corn. The unit incorporates a number of basic features including the rotor and hammers assemblies, drive assemblies, belly auger and discharge conveyors, and the axle and hitch assemblies.

Material is fed into the hopper of the unit by a wheel loader or auger. As the material is being fed into the hopper it is exposed to rotating hammers. The hammers then grind the material before the material is discharged by the belly auger and discharge conveyors.

Figure 2.1 Side view showing operator station and major system components



#### 2.2.2 Overview of Operator's Controls

Operator controls include:

- **Hopper tilt cylinder:** The hopper tilt cylinder uses the tractor's second hydraulic circuit to raise and lower the hopper platform. Operation of the hopper tilt cylinder is performed using the controls for the tractor's second hydraulic circuit which are located on the tractor. Figure 2.1 shows the hopper platform in the operating position with the hopper platform lowered to the frame.
- **Tractor engine speed:** The tractor engine speed should be set so 1000 PTO shaft is running at 1000 RPM
- **Tractor PTO lever:** Engaging the tractor's PTO lever spins the rotor runs the conveyor belt and belly auger. The conveyor must be unfolded to working position before the PTO is engaged.
- Conveyor hydraulic controls: The front lever controls the up/down of the conveyor and the next lever controls the fold/unfold of the conveyor. One tractor hydraulic circuit is required to power the hydraulic controls.
- **Auger hydraulic control:** The hydraulic control on the auger engages and disengages the auger.

#### 2.2.3 Rotor

The rotor and screens are the heart of the grain processor. The rotor on this GP-50 Grain Processor is equipped with 132 swinging hammers. Dull edges on the hammers and/or screens will result in a loss of capacity and increased horsepower requirements



Important: Hammer and hammer rod life can be extended by keeping the rotor rotating at 2500 RPM. Excessive tractor horsepower and/or overfeeding the rotor can cause the hammers to lay back resulting in excessive wear on both hammers and hammer rods.



**CAUTION:** Keep all foreign objects out of the hopper and away from the rotor. Foreign objects may cause personal injury or damage to the Gp-50 Grain Processor.



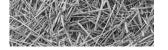
CAUTION: At full speed, energy is stored in the rotor. Do not use the tractor PTO brake to stop the rotor. Reduce engine speed before disengaging the PTO.

#### 2.2.4 Screens

All GP-50 Grain Processors require two screens. They come equipped from the factory with a 2" diameter hole screen and a 3" diameter hole screen. Any combination of hole sizes may be used. As a general rule, use the largest diameter screens capable of doing the job.

When using a combination, place the smallest hole diameter on the right hand side of the rotor box where the material enters the rotor.

The size of the hole in the screen determines the coarseness of the grind. The larger the hole diameter, coarse the grind. Hole sizes can vary form 1/8" diameter through 8" diameter.



#### **2.2.5 Hopper**

The purpose of the hopper is to contain the material above the rotor, and keep the rotor loaded.

#### 2.2.6 Hydraulic Tilt Platform

The GP-50 Grain Processor hopper can be tilted 90 degrees for access to the rotor, screens, and drive line. Operation of the hopper tilt cylinder is performed using the controls for the tractor's second hydraulic circuit which are located on the tractor. A ball valve (3800906) is connected behind the coupler for safety purposes. The ball valve remains closed (perpendicular) during the machine operation. After using the normal shutdown procedures, the hopper platform can then be opened. The ball valve needs to be open (parallel) for this procedure.



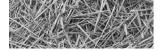
**WARNING:** To prevent serious injury or death, do not tilt platform on uneven ground or with material in the hopper.



#### 2.2.7 Conveyor lifting and folding

Manual valve on the GP-50 Grain Processor controls the conveyor lift and fold. The tractor supplies hydraulic oil for operating the conveyor lift and fold system. Activate the tractor hydraulic circuit before operating the valve on the GP-50 Grain Processor.

To correct a reverse flow, either change the hoses around where they connect to the tractor, or reverse the tractor operating lever position. On a tractor with adjustable hydraulic flow rate, adjust the oil flow to a minimum rate and adjust for adequate function speed.



#### **2.2.8 Auger**

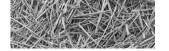
The auger is intended to feed the GP-50 Grain Processor at a controlled rate from a hopper trailer or truck. The operating valve on the auger is equipped with a detent to allow continuous operation for feeding the processor. The valve has a spring return in the reverse operation to allow momentary reverse operation to unlodge the auger if plugging occurs. The flow control valve should be set so that the auger can only deliver as much grain as the machine can handle.

#### 2.2.9 Conveyor

The conveyor is equipped with a flow control to allow the operator to adjust the speed of the conveyor belt. This allows the belt to be run at an adequate speed to remove material from the machine and extend the conveyor belt life.

#### 2.2.10 Large Hopper (option)

The machine can be equipped with a large hopper for loading with a front end loader. The choke plate in the hopper is adjustable using the crank at the side of the hopper. This should be adjusted to maintain a consistent material floe into the machine.



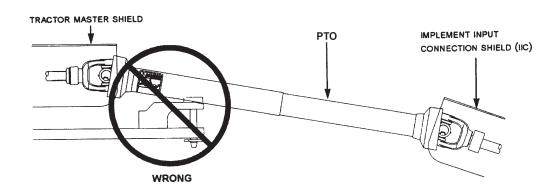
#### 2.3 Machine Operation

#### 2.3.1 Tractor Set Up

A tractor drawbar and 3-point arms can cause interference with the PTO driveline. This interference can cause serious damage to the PTO guarding and the PTO telescoping members.

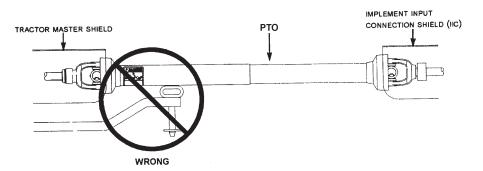
If the implement is attached to a tractor with a clevis hitch (hammer strap) style drawbar, the hammer-strap must be removed to prevent damage to the PTO guards and the PTO telescoping members. See Figure 2.2.

Figure 2.2 incorrect clevis hitch (hammer strap) style drawbar set up

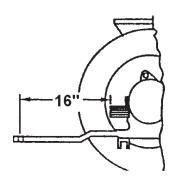


If this implement is attached to a tractor with an offset in the drawbar, be certain it is in the down position to prevent damage to the IID guarding and IID telescoping members. See figure 2.3.

Figure 2.3 incorrect offset style drawbar set up



If this implement is attached to a tractor with 3-point arms, the arms must be fully raised and locked in position to prevent damage to the PTO guarding and the telescoping members. Adjust the tractor drawbar so the distance from the end of the PTO shaft on the tractor to the center of the drawbar hitch pin hole is 16" (41 cm.) for a 1000 RPM shaft as shown at right.



#### 2.3.2 How to hook up to tractor

To hitch the GP-50 Grain Processor, perform the following steps:

- 1. To reduce wear on the PTO shaft knuckle joint, tractor PTO shaft should be in Line (parallel) with the GP-50 Grain Processor. If the tractor is equipped with swinging drawbar, adjust so the PTO and Gp-50 Grain Processor drive shaft are in line.
- 2. Connect hydraulic lines to the tractor.



**CAUTION:** To insure a safe hook-up, the GP-50 Grain Processor and tractor should be connected with a 1" locking pin.

#### 2.3.3 How to disconnect from tractor

To disconnect the GP-50 Grain Processor to a tractor, perform the following steps:

- 1. Park the GP-50 Grain Processor and tractor on a level spot.
- 2. Lower jack to ground, place blocks under jack if ground is soft.
- 3. Disconnect hydraulic lines.
- 4. Disconnect PTO, place shaft in shaft holder.
- 5. Raise hitch of GP-50 Grain Processor to remove weight from tractor hitch by adjusting jack.
- 6. Remove hitch pin.
- 7. Drive tractor away slowly.

#### 2.3.4 How to operate machine as a unit

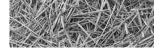
#### Introduction

Tractor engines are designed to reach maximum power at PTO speed (1000 rpm), and most tractors are capable of engine speeds from 10 to 20 percent over PTO speed. A rotor speed of 2500 rpm is recommended. It will be necessary to operate tractor PTO at approximately 1100 rpm.

#### **Grinding**

Place material to be ground directly into the hopper. The best method for filling the GP-50 Grain Processor is:

- 1. Engage rotor and increase speed to 1000 RPM on the PTO shaft.
- 2. Adjust the flow rate of the material to bring the tractor to the desired engine load.



#### 2.4 Shutdown procedure

#### 2.4.1 Normal shutdown procedure



**CAUTION:** At full speed, energy is stored in the rotor. **Do not use the tractor PTO brake to stop** the rotor.



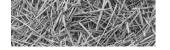
**WARNING:** The stored up energy in the rotor causes it to rotate longer after disengaging the tractor PTO. Before performing any maintenance on the machine or getting into the tub, be sure rotor and all moving parts have come to a complete stop

Before working on or near the GP-50 Grain Processor for any reason, including servicing, inspecting or unclogging the machine:

- 1. Run the GP-50 Grain Processor until discharge conveyor is empty, and grind as much of the material in the hopper as possible.
- 2. Reduce engine speed to idle.
- 3. Disengage PTO.
- 4. Disengage hydraulics.
- 5. Place transmission in park and set park brake.
- 6. Shut off tractor engine and remove key.
- 7. Wait for all movement to stop.
- 8. Disconnect PTO driveline from tractor.

#### 2.4.2 Emergency shutdown procedure

Disengage PTO and tractor hydraulics.



#### 2.5 Storage

#### 2.5.1 Preparing for storage

To prepare the unit for storage, perform the following steps:

- 1. Check the wheel bearings for lubrication requirements and adjustments at the end of the season.
- 2. Clean the machine thoroughly to prevent rust and to make inspections easier.
- 3. Check for loose or worn chains, belts, sprockets, and pulleys.
- 4. Check the condition of bearings.

#### 2.5.2 Removing from storage

To prepare the unit for use after storage, perform the following steps:

1. Perform a through pre-operation inspection.

#### 2.6 Road Transport

#### 2.6.1 Set up to transport

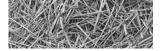
Inspect the GP-50 Grain Processor for any loose parts, tools, or any materials. Remove them or fasten them securely to the GP-50 Grain Processor.

To set up the GP-50 Grain Processor for transport, perform the following steps:

- 1. Place the conveyor in the folded position. As shown in figure 2.4.
- 2. Fold auger along side machine and place in the transport support and latch all hooks and pins. As shown in figure 2.4.

Figure 2.4 GP-50 Grain Processor shown in transport mode.





# 2.7 Raising the Hopper Platform



**WARNING:** To prevent serious injury or death, do not tilt platform on uneven ground or with material in the hopper.

To raise the hopper platform, perform the following steps:

- 1. Park machine on firm level ground or surface.
- 2. Remove all material from the hopper.
- 3. Disengage the PTO.
- 4. Clear personnel from work area.
- 5. Raise platform so that it is fully open (90 degrees)





## 2.8 Installing screens



**CAUTION**: Follow normal shutdown procedure prior to tilting the hopper.

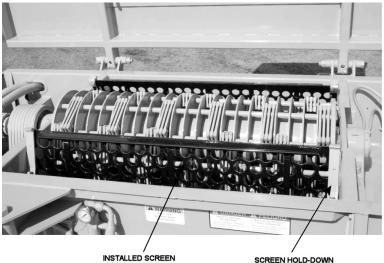
To install a screens on the GP-50 Grain Processor, perform the following steps:

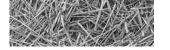
Raise the hopper using the following steps.



WARNING: To prevent serious injury or death, do not tilt platform on uneven ground or with material in the hopper.

- Park machine on level ground or surface.
- Remove all material from hopper.
- Clear personnel from work area.
- Raise hopper
- 2. Loosen and remove bolts on the screen hold downs.
- 3. With a large hook or bar, pull the screen from its chamber.
- Clear all material from the screen track before installing a new screen. 4.
- 5. Install the new screen.
- Make certain that the screen fits completely in place, and replace the screen hold-downs and bolts. 6.
- Tighten all bolts securely. 7.
- 8. Make sure all personnel and equipment are clear of the hopper platform.
- 9. Lower the hopper platform.





### 2.9 Adjusting the conveyor belt tension



**IMPORTANT:** Do not over tighten conveyor belts. Use only enough tension to eliminate belt slippage.

The rollers on the discharge conveyor are adjustable to allow for belt stretching and tracking. If the conveyor belt slows down or stops during operation, slippage may be the cause. To eliminate slippage, tighten the adjusting bolts on the conveyor equally. This will help to keep the belt centered on the rollers.

Figure 2.5
Discharge conveyor belt adjusting bolts.



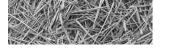
### 2.10 Adjusting the conveyor belt tracking

When a new belt is installed, use only genuine DuraTech Industries parts.

1. Begin by adjusting the drive roller so that the mounting bearings are the same distance from end of the conveyor frame. This ensures that the roller centerline is square with the frame. Adjust the idler roller bolts so that they are equal on both sides of the conveyor.

If the belt is running to the right side, perform the following steps:

- 1. Adjust the idler roller tension bolt on the right side of the conveyor (figure 2.5). Increase tension by approximately 2 full turns of the adjustment nut.
- 2. Make certain that all personnel are clear of the machine and start engine. Engage the tractor PTO.



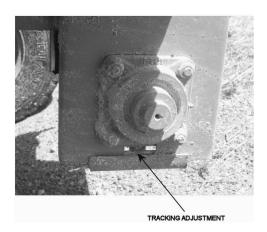


**NOTE:** The rotor will also be running.

- 3. Observe conveyor belt tracking from a safe location.
- 4. If further adjustment is required, disengage tractor PTO and shut down the machine using the normal shutdown procedure.
- 5. Some adjustment of the drive roller may be required if no improvement is noted by adjusting the idler roller tension.
- 6. Repeat steps 1-5 until proper tracking is achieved.

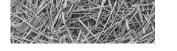
If the belt is running to the left side, perform the following steps:

- Adjust the idler roller tension bolt on the left side of the conveyor. Increase the tension by approximately
   full turns of the adjusting nut.
- 2. Make certain that all personnel are clear of the machine and start engine. Engage the tractor PTO.
- 3. Observe the tracking of the conveyor belt from a safe location.
- 4. If further adjustment is required, disengage tractor PTO and shut down using the normal shutdown procedure.
- 5. Some adjustment of the drive roller may be required if no improvement is noted by adjusting the idler roller tension.
- 6. Repeat steps 1-5 until proper tracking is achieved.



### 2.11 Main drive belt adjustment

Adjustment has been provided for tightening main drive belts. Belts tend to stretch rapidly when first put into operation. Tighten regularly to prevent slippage. Belt tension should be checked at 30-minute intervals or as necessary until stretch is eliminated. Belt tension should be checked by pressing on individual belts with thumb at (approximately 20 lbs.) in the center of the span. Deflection should be 1/2" or the thickness of the v-belt.



### **Section 3: General Maintenance**

### SERVICE AND MAINTENANCE



**CAUTION:** If for any reason arc welding is to be done, always ground cylinder to frame of machine to prevent arcing in bearings.

- 1. Before working on or near the GP-50 Grain Processor for any reason, including servicing, inspecting or unclogging machine:
  - a. Run GP-50 Grain Processor until discharge conveyor is empty, and grind as much of the material in the hopper as possible.
  - b. Reduce engine speed to idle.
  - c. Disengage PTO
  - d. Disengage hydraulics.
  - e. Place transmission in park and set parking brake.
  - f. Shut off tractor engine and remove key.
  - g. Wait for all movement to stop.
  - h. Disconnect PTO driveline from tractor.
- 2. When replacing any part on your GP-50 Grain Processor, be sure to use only DuraTech Industries authorized parts.
- 3. Relieve all pressure in the hydraulic system before disconnecting the lines or performing other work on the system. Make sure all connections are tight and the hoses and lines are in good condition before applying pressure to the system.



**WARNING:** Hydraulic fluid escaping under pressure can be invisible and have enough force to penetrate the skin. When searching for a suspect leak, use a piece of wood or cardboard rather than your hands. If injured, seek medical attention immediately to prevent serious infection or reaction.

4. Visually examine to see if any internal parts show excessive wear. Repair or replace needed parts. These parts include rotor plates and holes in the plates that support the rods. Enlarged holes can cause rods to break.

Also check rods, rod locking and retaining devices, hammers, screens, screen tracks and hold downs, main shaft, hinges or anything else that could wear and perhaps fail if not properly maintained, and cause damage to the rotor and/or personnel safety. Check bearing alignment and mounting bolts to insure a firm foundation and reduced vibration.

Keep all foreign objects out of the hopper and away from the rotor. Foreign objects may result in personal injury or cause severe damage to hammers, screens, rods, and other parts that will cause rotor failure.

- - 5. Check for loose or worn chains, belts, sprockets and pulleys.
  - 6. Keep sprockets and pulleys aligned.
  - 7. Inspect rotor and all rotating parts for wrapped twine or wire build up.
  - 8. If machine is going to sit idle for an extended period of time, hopper floor should be cleaned to prevent rust and sticking problems at start up time.
  - 9. The proper tire pressure is 50 PSI.
  - 10. The wheel bearings should be checked for lubrication and adjustments yearly, preferably at the end of the season.

If a generous amount of grease is on the bearing and in the housing, and if the grease is soft, the grease will not need changing.

If the lubricant is caked and the bearing seems dry, wash the bearing to remove old grease. Repack the bearing.

### 3.1 Lubrication



**CAUTION:** Follow normal shutdown procedure before adjusting or lubricating.

### BEARING LUBRICATION

Bearings operating in the presence of dust and water should contain as much grease as speed will permit, since a full bearing with a slight leakage is the best protection against entrance of foreign material. In the higher speed ranges, too much grease will cause overheating.

High-speed operation, abnormal bearing temperature may indicate faulty lubrication. Normal temperature may range from "cool to warm to the touch" up to a point. Unusually high temperatures "too hot to touch for more than a few seconds" accompanied by excessive leakage of grease indicates too much grease. High temperatures with no grease showing at the seals, particularly if the bearing seems noisy, usually indicate too little grease. Normal temperature and a slight showing of grease at the seals indicate proper lubrication.

The following chart is a general guide for relubrication. Certain conditions may require a change of lubrication periods as dictated by experience.

## **Lubrication Chart**

REF. NO.	LOCATION	NUMBEROF GREASE FITTINGS	FREQUENCY
1	Rotor Bearings	2	10 hrs.
2	Input Shaft Bearings	2	10 hrs.
3	Belly Auger Bearings	2	40 hrs.
4	Discharge Conveyor Bearings	4	40 hrs.
5	Hyrdraulic Lift	2	40 hrs.
6	Wheel Bearings	-	Annually
7	РТО	3	40 hrs.
8	Roller Chains	-	Oil daily in dusty conditions
9	Platform Pivots	2	Annually
10	Belly Auger Drive	2	40 hrs.
11	Auger Arm Pivot	4	Annually

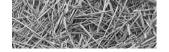


Figure 3.1 Both rotor bearing and platform pivot lubrication points

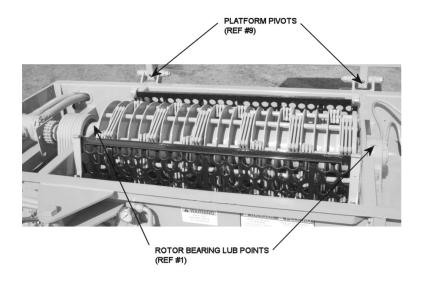
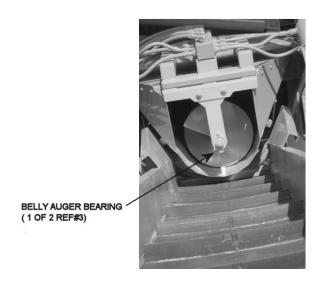


Figure 3.2 Belly auger bearing



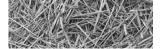


Figure 3.3 Belly auger bearing



Figure 3.4 Discharge conveyor



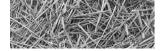
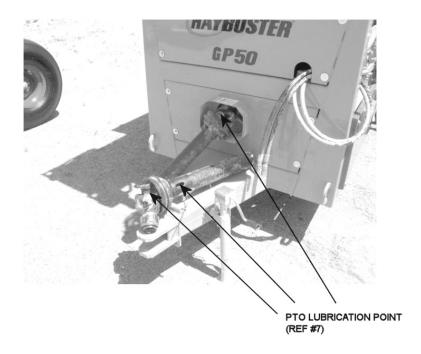


Figure 3.5 Discharge conveyor



Figure 3.6 PTO lube points



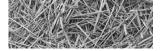


Figure 3.7 Hydraulic lift lube point

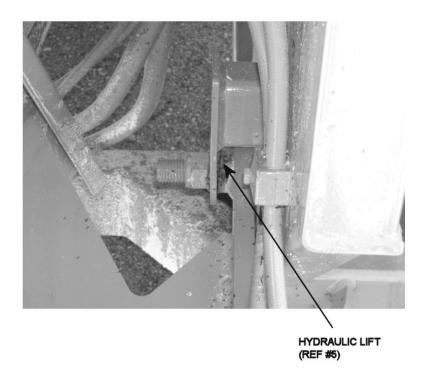


Figure 3.8 Input shaft bearings



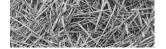


Figure 3.9 Belly auger drive bearings

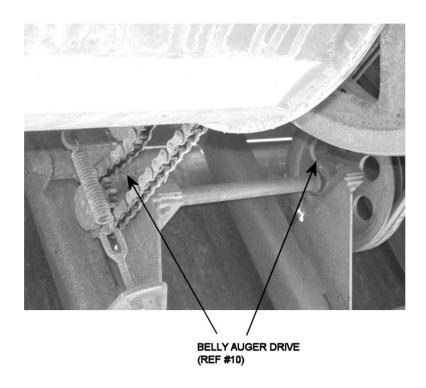
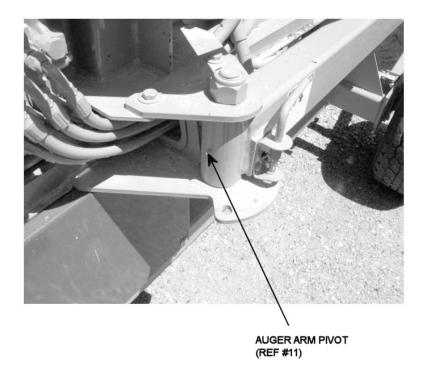
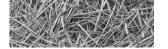


Figure 3.10 Auger arm pivot





### 3.2 Hydraulic system



**CAUTION:** Lack of proper oil level in the reservoir tank will cause system to heat under continuous running. Check the hydraulic oil level daily and replace as necessary.

All machines have been pre-run at the factory to insure all functions are performing correctly.

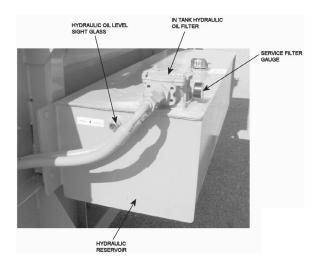
Check the hydraulic oil regularly, and if the oil has a burnt smell or milky appearance, change it immediately.

The hydraulic oil reservoir has a capacity of 45 gallons. Change the hydraulic oil and filter annually or every 1000 hours. The filter assembly is equipped with a service filter gauge and should be checked at operating temperatures.

### To change hydraulic oil:

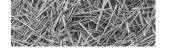
Remove oil drain plug from the bottom of the hydraulic oil tank and drain the oil. Replace drain plug and add the new oil. Remove the four bolts from the top of the filter assembly and replace the filter element (PN 4400074). Note that the filter element can be replaced without draining the hydraulic tank.

DuraTech Industries recommends using Cenex Qwiklift HTB if your machine has a Qwiklift decal on the hydraulic tank. Other acceptable fluids include Mobil 423, Farmland Super HTB, Conoco Hydroclear Power Tran Fluid or other similar fluids. If the hydraulic tank does not have this decal, then all of the above fluids are acceptable.









### 3.4 Hammermill maintenance

Visually examine the mill to see if any of the internal parts show excessive wear. These parts should include rotor discs and the holes in the discs that support the rods. Enlarged holes can cause rods to break or bend. Also check rods, rod locking or retaining devices, hammers, screens, screen tracks and hold downs, main shaft, platform locking devices, hinges or anything else that could wear and perhaps fail and causing damage to the hammermill and/or personnel safety if not properly maintained. The bearings should also be checked along with mounting bolts to insure a firm foundation and reduced vibration.



**CAUTION:** Keep all foreign objects out of the hopper and away from the mill. Foreign objects may result in personal injury or damage to the machine.

The hammers have been designed and manufactured to provide the best compromise between hardness for good wearing qualities and strength for dependability and resistance to breakage.



**WARNING:** The hammers have been heat treated, and any alteration of the hammers by heating, grinding, resurfacing or any other process can change the mechanical properties of the hammer and make it unsuitable or dangerous to use.

Because of the high capacity of the machine, the hammers will wear and must be considered expendable. Each hammer has four cutting edges. For maximum life, it is suggested that hammers be rotated periodically to even out the wear over the entire rotor. If one end of a hammer is allowed to wear too long, one of the hammer's cutting edges will be lost.

Screens also have two cutting edges. When cutting edges become rounded, the screen can be turned end for end exposing the new cutting edges. The results of badly worn hammers and screens is loss of capacity, and added horse power requirements.

Hammer rods are case hardened to maximize wearability and toughness, although hammer rods must be considered expendable.



**NOTE:** Hammer and hammer rod life can be extended by keeping rotor rotating at 2000 RPM. Over powering or over feeding the rotor will cause the swinging hammers to lay back resulting in excessive wear on both the hammers and the rods.

### 3.5 Hammer maintenance and replacement



**CAUTION:** Before entering hopper to do any service work, raise the hopper following the instructions on page 27 under the heading "Raising the Hopper Platform"

We recommend the following:

- A. Always replace hammers in pairs, 180 degrees apart. (illustrations A & B below).
- B. Tips placed 180 degrees apart should be the same weight.

To replace the hammers on this machine, perform the following steps:

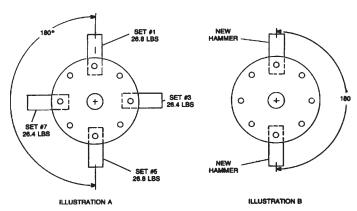
1. Raise the hopper platform following the instructions on page27 under the heading "Raising the Hopper Platform".



**WARNING:** To prevent serious injury or death, do not tilt platform on unlevel ground or with material in the tub.

**WARNING:** For your protection **ALWAYS** install the hopper cylinder stop on the hoppertilt cylinder when the hopper is tilted. **NEVER** engage tractor PTO when the hopper is raised.

- 2. Loosen two bolts at rear of rotor that holds the movable plate in place.
- 3. Rotate movable plate counter clockwise to align holes allowing hammer rods to be removed through rear of rotor.
- 4. Remove one row of hammers and replace, taking note as to where spacers are located. (illustrations A & B below).
- 5. After all hammers have been replaced or turned, turn movable plate to lock rods in place and then tighten bolts.
- 6. When starting the rotor after installing a new set of hammers or turning corners, watch for unusual or excessive vibration. If any occurs, immediately shut off the rotor. Check to see what is wrong and correct it before starting the rotor again.



GP-50 GRAIN PROCESSOR

OPERATING INSTRUCTIONS

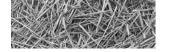
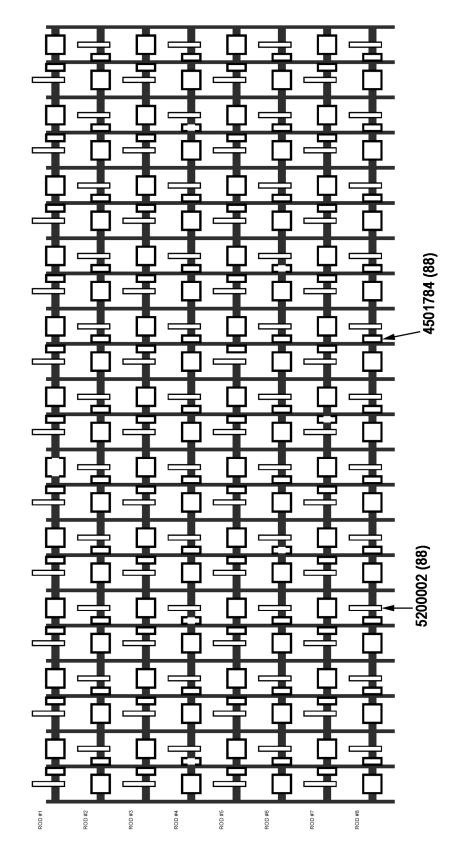
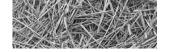


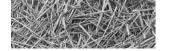
Figure 3.11 hammer spacing chart for the GP-50 Grain Processor





# Section 4: Troubleshooting the GP-50 Grain Processor

PROBLEM	CAUSE	REMEDY
1. No grinding capacity.	<ol> <li>The screen is plugged.</li> <li>The hammers or screens are are badley worn.</li> </ol>	<ol> <li>Clean out holes in the screen.</li> <li>Replace or turn worn parts.</li> <li>Use larger screen.</li> </ol>
2. The machine vibrates excessivley.	<ol> <li>A hammer is broken.</li> <li>The rotor bearing is defective.</li> <li>The driveline is worn or misaligned.</li> <li>Foreign material is trapped in the rotor.</li> <li>The hammer pattern is incorrect.</li> </ol>	<ol> <li>Replace the broken hammer.</li> <li>Replace the rotor bearing.</li> <li>Replace the worn part or the complete driveline.</li> </ol>
3. The hydraulic oil overheats.	<ol> <li>Pressure relief valve in control valve is faulty.</li> <li>The hopper is overloaded.</li> <li>Worn pump, control valve, hyd. motors, etc.</li> </ol>	<ol> <li>Check oil pressure.</li> <li>Reduce the amount of material in the hopper.</li> <li>Rebuild or replace the hydraulic components as nessecery.</li> </ol>



# **Appendix A: Warranty**

DuraTech Industries International Inc. warrants to the original purchaser for 12 months from purchase date that this product will be free from defects in material and workmanship when used as intended and under normal maintenance and operating conditions. This warranty is limited to the replacement of any defective part or parts returned to our factory in Jamestown, North Dakota, USA, within thirty (30) days of failure.

This warranty shall become void if in the judgment of DuraTech Industries International, Inc. the machine has been subject to misuse, negligence, alterations, damaged by accident or lack of required normal maintenance, or if the product has been used for a purpose for which it was not designed.

All claims for warranty must be made through the dealer which originally sold the product and all warranty adjustments must be made through same.

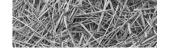
This warranty does not apply to tires or bearings or any other trade accessories not manufactured by DuraTech Industries International Inc. Buyer must rely solely on the existing warranty, if any, of these respective manufacturers.

DuraTech Industries International Inc., shall **not** be held liable for damages of any kind, direct, contingent, or consequential to property under this warranty. DuraTech Industries International Inc., cannot be held liable for any damages resulting from causes beyond its control. DuraTech Industries International Inc., shall **not** be held liable under this warranty for rental costs or any expense or loss for labor or supplies.

DuraTech Industries International Inc., reserves the right to make changes in material and/or designs of this product at any time without notice.

This warranty is void if DuraTech Industries International Inc. does not receive a valid warranty registration card at its office in Jamestown, North Dakota, USA, within 10 days from date of original purchase.

All other warranties made with respect to this product, either expressed or implied, are hereby disclaimed by DuraTech Industries International Inc.



# **Appendix B: GP-50 GRAIN PROCESSOR Specifications**

Weight w/small hopper and auger 7,300 lbs.

Weight w/small hopper only 6,620 lbs.

Weight w/large hopper 7,410 lbs.

Transport - height 10 ft. 2 in. - length 22 ft.

- width 7 ft. 9 in.

Tires/rims 31.5x10.5x15R" LT Tires Range C

All standard size, grease seal **Bearings** 

2550 RPM at 1000 PTO RPM Recommended Cylinder Speed

Rotor-Std. No. of Hammers 132

Hammer Size 3/8 in.

Rotor-Shaft diameter 3-1/2 in. stress proof steel

Rotor Size-length 50 in.

> -Diameter 26 in. w/hammer extended

Capacity-small hopper 55 in. x 44 in. 127 in. x 88 in.

-large hopper

Screen Area 2,565 sq. in.

Screen Sizes 1/8", 3/16", ½", 3/8", ½", 5/8", ¾", 1", 1-1/2", 2", 3",

Belly Auger 14 in.

Discharge Conveyor-rubber belt w/1-1/2" high cleats 20 ft. long, 18 in. wide

Tractor requirements-horsepower 200HP to 300HP

> -PTO requirements 1000 RPM

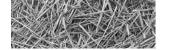
### **AVAILABLE OPTION:**

4", 5", 6", 7", 8", open

**Loading Auger** 

Small Hopper

Large Hopper



# **Appendix C: Required for operation**

Tractor - 200 to-300 hp

1000 RPM PT0 Shaft

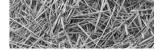
Dual Hydraulics, double acting control valve, 8 GPM, 1500 psi

See also Section 2.3.1, Tractor Set Up.

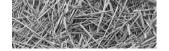




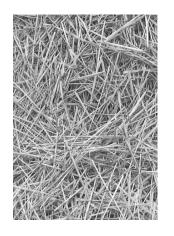
Approximately 45 gallons of hydraulic oil. DuraTech Industries recommends using Cenex Qwiklift HTB if your machine has a Qwiklift decal on the hydraulic tank. Other acceptable fluids include Mobil 423, Farmland Super HTB, Conoco Hydroclear Power Tran Fluid or other similar fluids. If the hydraulic tank does not have this decal, then all of the above fluids are acceptable.



# Notes



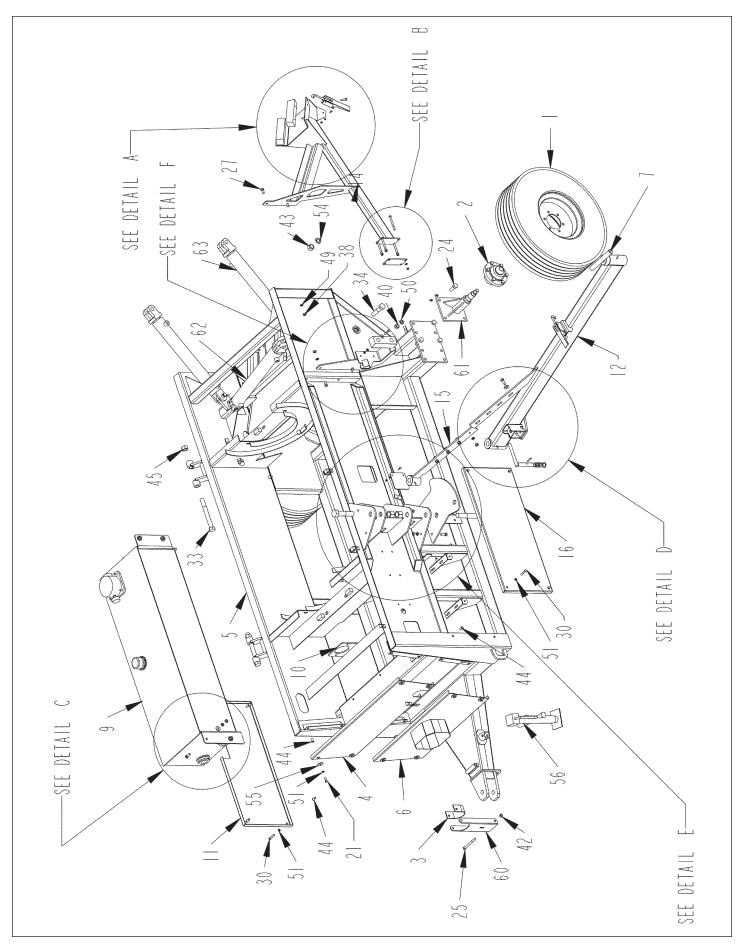




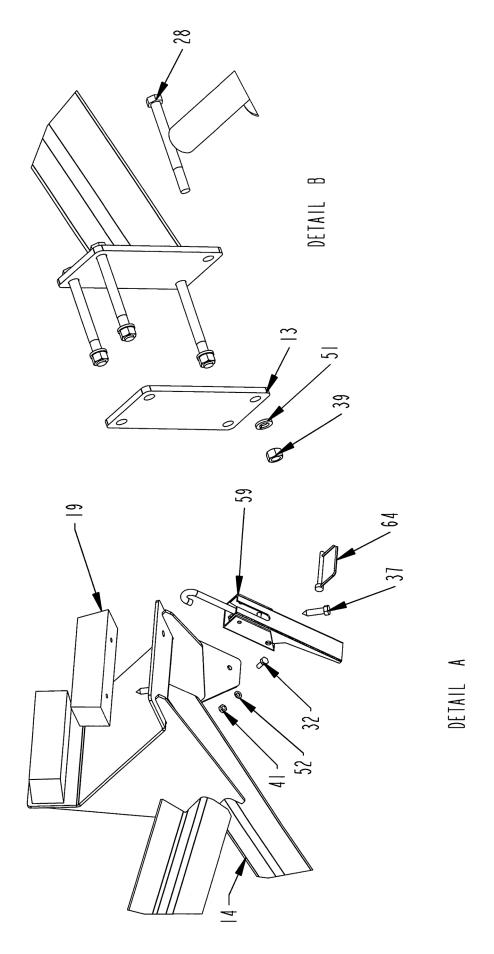


# GP-50<sup>™</sup> GRAIN PROCESSOR

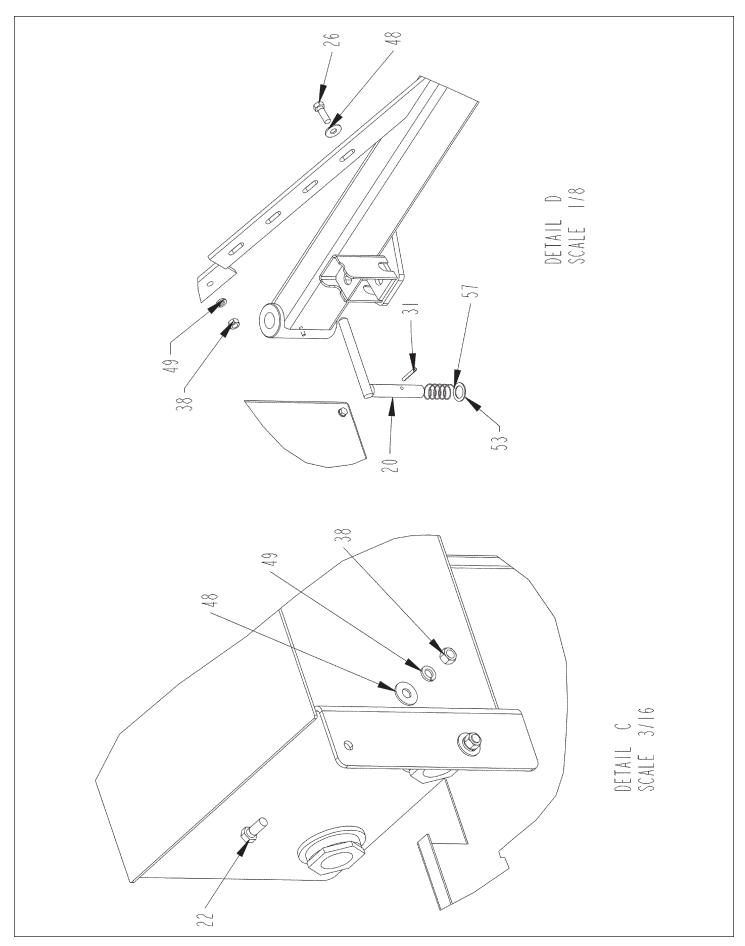
Part 2: Parts Reference



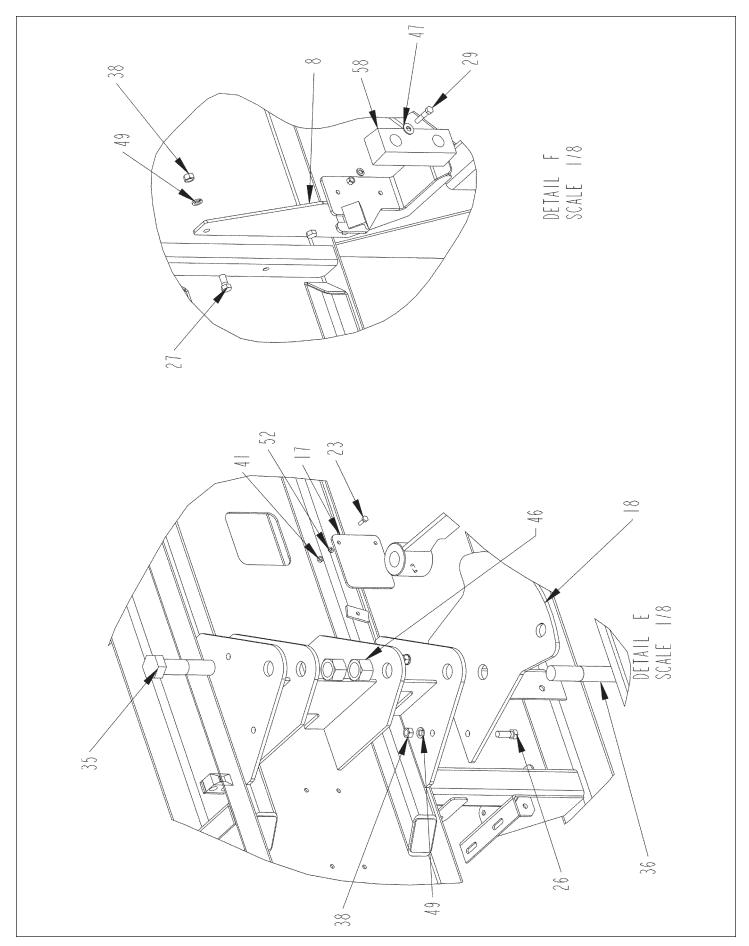
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_ 2A	2900163	2	HUB\6-BOLT\(875)COMPLETE SN_GP50100072_&_UP
3	4500754	1	BELT\BRKT\PTO
4	4501173	1	CVR\DRIVE\TUB\FRNT
5	4502173	1	MNFRM\GRNDR\GRAIN
6	4502185	1	CVR\DRIVE\BTTM\FRNT
7	4502214	1	PIN/MNT/PIVOT/AUGER
8	4502217	1	BRKT\SPPT\MNFRM\AUGER
9			SEE OIL TANK ASSEMBLY
10	4502224	1	PL\MNT\PUMP\HYD
11	4502225	1	SH\SHLD\MNFRM
12	4502238	1	ARM\SPPT\AUGER\SWING
13	4502239	2	PL\MNT\SPPT\AUGER
14	4502240	1	SPPT\AUGER\TRANSPORT
15	4502242	1	ARM\SPPT\SWING\AUGER
16	4502243	1	SH\SHLD\MNFRM
17	4502368	1	SH\COVER\VALVE\
18	4502557	1	PL\STOP\AUGER
19	4502564	2	BMPR\UHMW
20	4702715	1	PIN\LOCK\CNVYR\DISCH
21	4800003	8	BOLT\HEX\3/8X1
22	4800018	6	BOLT\HEX\1/2X1-1/4
23	4800024	2	BOLT\HEX\1/4X3/4
24	4800033	8	BOLT\HEX\3/4X2
25	4800041	1	BOLT\HEX\1/2X5
26	4800082	6	BOLT\HEX\1/2X1-1/2
27	4800085	4	BOLT\HEX\1/2X1
28	4800089	4	BOLT\HEX\3/8X4
29	4800142	2	BOLT\HEX\3/8X1-3/4
30	4800146	7	BOLT\HEX\3/8X2
31	4800267	1	PIN\RLLD\1/4X1-3/4
32	4800503	4	BOLT\HEX\1/4X5/8\NC
33	4800601	2	BOLT\HEX\1X9\NC
34	4800647	2	BOLT\HEX\1X4\NC
35	4800968	1	BOLT\HEX\1-1/4X5-1/2\GR5\NC
36	4800970	1	BOLT\HEX\1-1/4X8-1/2\NC
37	4801198	4	SCR\LAG\3/8X1-1/2
38	4900001	16	NUT\HEX\1/2\NC
39	4900002	6	NUT\HEX\3/8\NC
40	4900004	8	NUT\HEX\3/4\NC
41	4900009	6	NUT\HEX\1/4\NC
42	4900014	1	NUT\TPLCK\1/2\NC
43 44	4900031 4900083	2 15	NUT\HEX\1\NC
4 <del>4</del> 45	4900083	2	NUT\INSERT\3/8\.LONG\0.15-0.312\(.418/CD) NUT\TPLCK\1\NC
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50	5000012	8	WASH\LOCK\3/4
51	5000012	21	WASH\LOCK\3/8
52	5000024	6	WASH\LOCK\1/4
53	5000040	1	WASH\BUSH;MACH\1
54	5000053	2	WASH\LOCK\1
55	5000096	8	WASH\FLAT\SPCL\13/32X7GAX1-1/2OD
56	5800620	1	JACK\5000\ONE;SPD\10\
57	6100048	1	SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA
58	7500635	1	CUSH\RBBR\7-3/4X2-7/16X2
59	7501045	2	LATCH/ADJ/OTC/4" GRIP
60	8100434	1	BRKT\PTO
61	8101703	2	SPNDL\BOLT-ON\HVY THRU SN_GP50IJ0071
61A	8101828	2	SPNDL\BOLT-ON\HVY\SHORT SN GP50100072 & UP
62	4100203	1	CYL\HYD\3X24\1-1/2ROD
63	4100261	2	CYL\HYD\3X20\1-1/2ROD
64	4800911	2	PIN\LYNCH\1/4X2-1/2



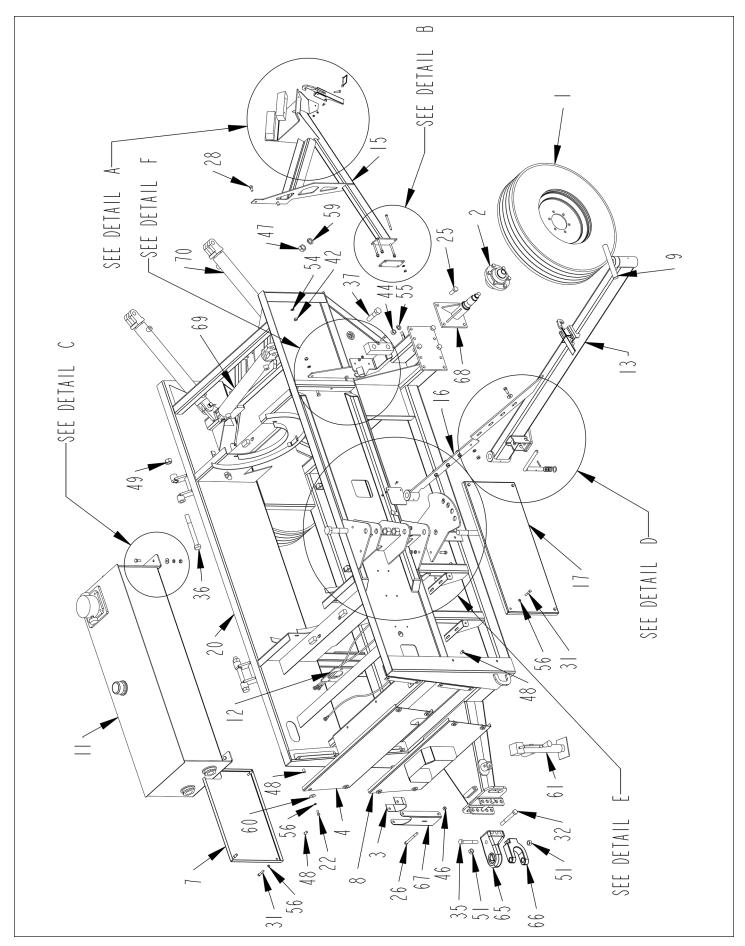
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2	2900069	2	HUB\COMPLETE\2900069 THRU SN_GP50IJ0071
2A	2900163	2	HUB\6-BOLT\(875)COMPLETE SN_GP50100072_&_UP
3	4500754	1	BELT\BRKT\PTO
4	4501173	1	CVR\DRIVE\TUB\FRNT
5	4502173	1	MNFRM\GRNDR\GRAIN
6	4502185	1	CVR\DRIVE\BTTM\FRNT
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8	4502217	1	BRKT\SPPT\MNFRM\AUGER
9			SEE OIL TANK ASSEMBLY
10	4502224	1	PL\MNT\PUMP\HYD
11	4502225	1	SH\SHLD\MNFRM
12	4502238	1	ARM\SPPT\AUGER\SWING
13	4502239	2	PL\MNT\SPPT\AUGER
14	4502240	1	SPPT\AUGER\TRANSPORT
15	4502242	1	ARM\SPPT\SWING\AUGER
16	4502243	1	SH\SHLD\MNFRM
17	4502368	1	SH\COVER\VALVE\
18	4502557	1	PL\STOP\AUGER
19 20	4502564	2	BMPR\UHMW PIN\LOCK\CNVYR\DISCH
20 21	4702715 4800003	1 8	BOLT\HEX\3/8X1
22	4800003	6	BOLT\HEX\3/8X1 BOLT\HEX\1/2X1-1/4
23	4800018	2	BOLT\HEX\1/4X3/4
24	4800033	8	BOLT\HEX\3/4X2
25	4800041	1	BOLT\HEX\1/2X5
26	4800082	6	BOLT\HEX\1/2X3
27	4800085	4	BOLT\HEX\1/2X1
28	4800089	4	BOLT\HEX\3/8X4
29	4800142	2	BOLT\HEX\3/8X1-3/4
30	4800146	7	BOLT\HEX\3/8X2
31	4800267	1	PIN\RLLD\1/4X1-3/4
32	4800503	4	BOLT\HEX\1/4X5/8\NC
33	4800601	2	BOLT\HEX\1X9\NC
34	4800647	2	BOLT\HEX\1X4\NC
35	4800968	1	BOLT\HEX\1-1/4X5-1/2\GR5\NC
36	4800970	1	BOLT\HEX\1-1/4X8-1/2\NC
37	4801198	4	SCR\LAG\3/8X1-1/2
38	4900001	16	NUT\HEX\1/2\NC
39	4900002	6	NUT\HEX\3/8\NC
40	4900004	8	NUT\HEX\3/4\NC
41	4900009	6	NUT\HEX\1/4\NC
42	4900014	1	NUT\TPLCK\1/2\NC
43	4900031	2	NUT\HEX\1\NC
44	4900083	15	NUT\INSERT\3/8\.LONG\0.15-0.312\(.418/CD)
45 46	4900127 4900135	2 2	NUT\TPLCK\1\NC NUT\NYLCK\1-1/4\NC
47	5000001	2	WASH\FLAT\3/8
48	5000001	10	WASH\FLAT\1/2
49	5000004	16	WASH\LOCK\1/2
50	5000012	8	WASH\LOCK\3/4
51	5000012	21	WASH\LOCK\3/8
52	5000024	6	WASH\LOCK\1/4
53	5000040	1	WASH\BUSH;MACH\1
54	5000053	2	WASH\LOCK\1
55	5000096	8	WASH\FLAT\SPCL\13/32X7GAX1-1/2OD
56	5800620	1	JACK\5000\ONE;SPD\10\
57	6100048	1	SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA
58	7500635	1	CUSH\RBBR\7-3/4X2-7/16X2
59	7501045	2	LATCH\ADJ\OTC\4" GRIP
60	8100434	1	BRKT\PTO
61	8101703	2	SPNDL\BOLT-ON\HVY THRU SN_GP50IJ0071
61A	8101828	2	SPNDL\BOLT-ON\HVY\SHORT SN_GP50100072_&_UP
62	4100203	1	CYL\HYD\3X24\1-1/2ROD
63	4100261	2	CYL\HYD\3X20\1-1/2ROD
64	4800911	2	PIN\LYNCH\1/4X2-1/2



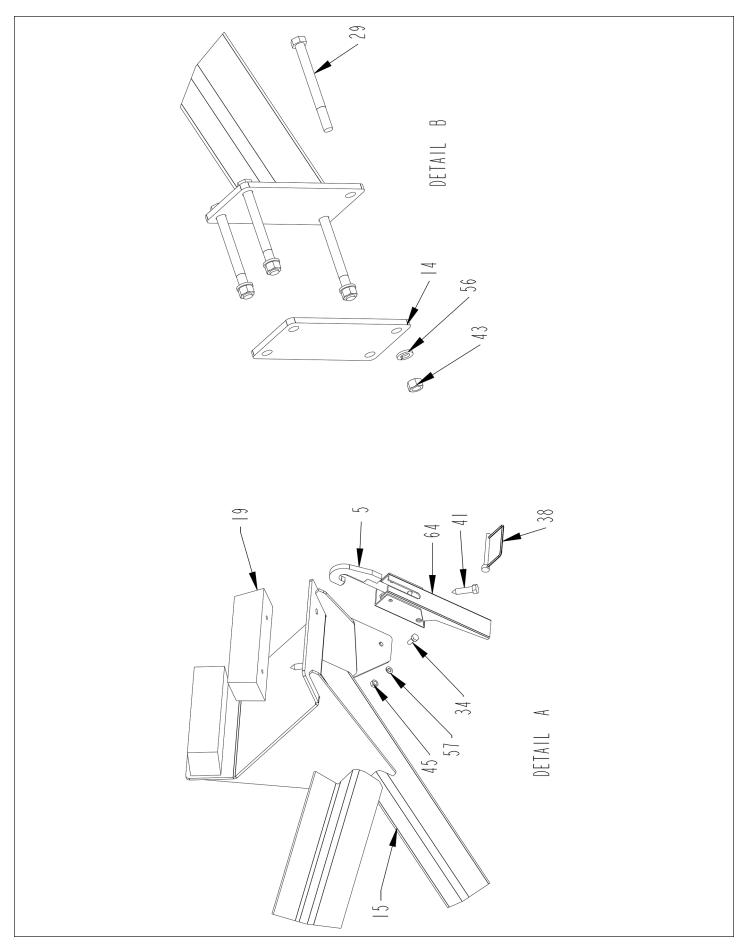
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1	2600823	2	WHL\HWY\KIT\31X10.5X15
2	2900069	2	HUB\COMPLETE\2900069 THRU SN_GP50IJ0071
2A	2900163	2	HUB\6-BOLT\(875)COMPLETE SN_GP50100072_&_UP
3	4500754	1	BELT\BRKT\PTO
4	4501173	1	CVR\DRIVE\TUB\FRNT
5	4502173	1	MNFRM\GRNDR\GRAIN
6	4502185	1	CVR\DRIVE\BTTM\FRNT
7	4502214	1	PIN\MNT\PIVOT\AUGER
8	4502217	1	BRKT\SPPT\MNFRM\AUGER
9			SEE OIL TANK ASSEMBLY
10	4502224	1	PL\MNT\PUMP\HYD
11	4502225	1	SH\SHLD\MNFRM
12	4502238	1	ARM\SPPT\AUGER\SWING
13	4502239	2	PL\MNT\SPPT\AUGER
14	4502240	1	SPPT\AUGER\TRANSPORT
15	4502242	1	ARM\SPPT\SWING\AUGER
16	4502243	1	SH\SHLD\MNFRM
17	4502368	1	SH\COVER\VALVE\
18	4502557	1	PL\STOP\AUGER
19	4502564	2	BMPR\UHMW
20	4702715	1	PIN\LOCK\CNVYR\DISCH
21	4800003	8	BOLT\HEX\3/8X1
22	4800018	6	BOLT\HEX\1/2X1-1/4
23	4800024	2	BOLT\HEX\1/4X3/4
24	4800033	8	BOLT\HEX\3/4X2
25	4800041	1	BOLT\HEX\1/2X5
26	4800082	6	BOLT\HEX\1/2X1-1/2
27	4800085	4	BOLT\HEX\1/2X1
28	4800089	4	BOLT\HEX\3/8X4
29	4800142	2	BOLT\HEX\3/8X1-3/4
30	4800146	7	BOLT\HEX\3/8X2
31	4800267	1	PIN\RLLD\1/4X1-3/4
32	4800503	4	BOLT\HEX\1/4X5/8\NC
33	4800601	2	BOLT\HEX\1X9\NC
34	4800647	2	BOLT\HEX\1X4\NC
35	4800968	1	BOLT\HEX\1-1/4X5-1/2\GR5\NC
36	4800970	1	BOLT\HEX\1-1/4X8-1/2\NC
37	4801198	4	SCR\LAG\3/8X1-1/2
38	4900001	16	NUT\HEX\1/2\NC
39	4900002	6	NUT\HEX\3/8\NC
40	4900004	8	NUT\HEX\3/4\NC
41	4900009	6	NUT\HEX\1/4\NC
42	4900014	1	NUT\TPLCK\1/2\NC
43	4900031	2	NUT\HEX\1\NC
44	4900083	15	NUT\INSERT\3/8\.LONG\0.15-0.312\(.418/CD)
45	4900127	2	NUT\TPLCK\1\NC
46	4900135	2	NUT\NYLCK\1-1/4\NC
47	5000001	2	WASH\FLAT\3/8
48	5000004	10	WASH\FLAT\1/2
49	5000006	16	WASH\LOCK\1/2
50	5000012	8	WASH\LOCK\3/4
51	5000019	21	WASH\LOCK\3/8
52 53	5000024	6	WASH\LOCK\1/4 WASH\BUSH;MACH\1
	5000040	1	,
54 55	5000053	2	WASH\LOCK\1
55 56	5000096	8	WASH\FLAT\SPCL\13/32X7GAX1-1/2OD
56 57	5800620 6100048	1 1	JACK\5000\ONE;SPD\10\ SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA
58 50	7500635 7501045	1	CUSH\RBBR\7-3/4X2-7/16X2
59	7501045	2	LATCH/ADJ/OTC/4" GRIP
60 61	8100434	1	BRKT\PTO
61 61 A	8101703	2	SPNDL\BOLT-ON\HVY THRU SN_GP50IJ0071 SPNDL\BOLT ON\HVY\SHORT SN_GP5010072 & LIP
61A	8101828	2 1	SPNDL\BOLT-ON\HVY\SHORT SN_GP50100072_&_UP
62 63	4100203 4100261	2	CYL\HYD\3X24\1-1/2ROD CYL\HYD\3X20\1-1/2ROD
64	4800911	2	PIN\LYNCH\1/4X2-1/2
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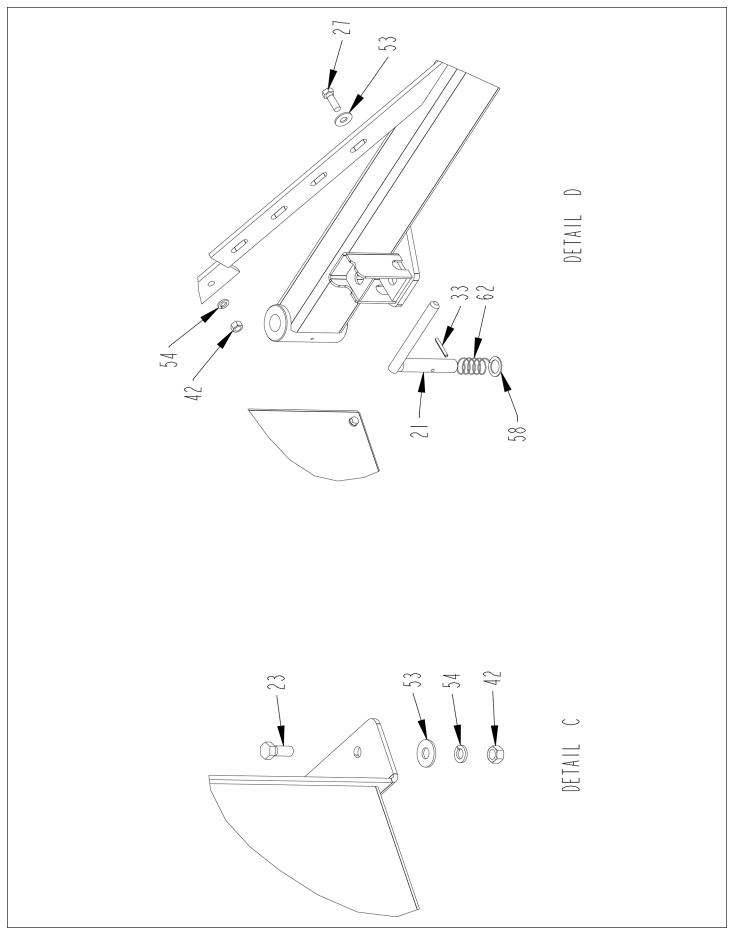
ITEM	PART	QTY.	PART DESCRIPTION
1	2600823	2	WHL\HWY\KIT\31X10.5X15
2	2900069	2	HUB\COMPLETE\2900069 THRU SN_GP50IJ0071
2A	2900163	2	HUB\6-BOLT\(875)COMPLETE SN_GP50100072_&_UP
3	4500754	1	BELT\BRKT\PTO
4	4501173	1	CVR\DRIVE\TUB\FRNT
5	4502173	1	MNFRM\GRNDR\GRAIN
6	4502185	1	CVR\DRIVE\BTTM\FRNT
7	4502214	1	PIN\MNT\PIVOT\AUGER
8	4502217	1	BRKT\SPPT\MNFRM\AUGER
9			SEE OIL TANK ASSEMBLY
10	4502224	1	PL\MNT\PUMP\HYD
11	4502225	1	SH\SHLD\MNFRM
12	4502238	1	ARM\SPPT\AUGER\SWING
13	4502239	2	PL\MNT\SPPT\AUGER
14	4502240	1	SPPT\AUGER\TRANSPORT
15	4502242	1	ARM\SPPT\SWING\AUGER
16	4502243	1	SH\SHLD\MNFRM
17	4502368	1	SH\COVER\VALVE\
18	4502557	1	PL\STOP\AUGER
19	4502564	2	BMPR\UHMW
20	4702715	1	PIN\LOCK\CNVYR\DISCH
21	4800003	8	BOLT\HEX\3/8X1
22	4800018	6	BOLT\HEX\1/2X1-1/4
23	4800024	2	BOLT\HEX\1/4X3/4
24	4800033	8	BOLT\HEX\3/4X2
25	4800041	1	BOLT\HEX\1/2X5
26	4800082	6	BOLT\HEX\1/2X1-1/2
27	4800085	4	BOLT\HEX\1/2X1
28	4800089	4	BOLT\HEX\3/8X4
29	4800142	2	BOLT\HEX\3/8X1-3/4
30	4800146	7	BOLT\HEX\3/8X2
31	4800267	1	PIN\RLLD\1/4X1-3/4
32	4800503	4	BOLT\HEX\1/4X5/8\NC
33	4800601	2	BOLT\HEX\1X9\NC
34	4800647	2	BOLT\HEX\1X4\NC
35	4800968	1	BOLT\HEX\1-1/4X5-1/2\GR5\NC
36	4800970	1	BOLT\HEX\1-1/4X8-1/2\NC
37	4801198	4	SCR\LAG\3/8X1-1/2
38	4900001	16	NUT\HEX\1/2\NC
39	4900002	6	NUT\HEX\3/8\NC
40	4900004	8	NUT\HEX\3/4\NC
41	4900009	6	NUT\HEX\1/4\NC
42	4900014	1	NUT/TPLCK/1/2/NC
43	4900031	2	NUT\HEX\1\NC
44	4900083	15	NUT\INSERT\3/8\.LONG\0.15-0.312\(.418/CD)
45	4900127	2	NUT/TPLCK/1/NC
46	4900135	2	NUT\NYLCK\1-1/4\NC
47	5000001	2	WASH\FLAT\3/8
48	5000004	10	WASH\FLAT\1/2
49	5000006	16	WASH\LOCK\1/2
50	5000012	8	WASH\LOCK\3/4
51	5000019	21	WASH\LOCK\3/8
52	5000024	6	WASH\LOCK\1/4
53	5000040	1	WASH\BUSH;MACH\1
54	5000053	2	WASH\LOCK\1
55	5000096	8	WASH\FLAT\SPCL\13/32X7GAX1-1/2OD
56	5800620	1	JACK\5000\ONE;SPD\10\
57	6100048	1	SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA
58	7500635	1	CUSH\RBBR\7-3/4X2-7/16X2
59	7501045	2	LATCH\ADJ\OTC\4" GRIP
60	8100434	1	BRKT\PTO
61	8101703	2	SPNDL\BOLT-ON\HVY THRU SN GP50IJ0071
61A	8101828	2	SPNDL\BOLT-ON\HVY\SHORT SN_GP50100072_&_UP
62	4100203	1	CYL\HYD\3X24\1-1/2ROD
63	4100261	2	CYL\HYD\3X20\1-1/2ROD
64	4800911	2	PIN\LYNCH\1/4X2-1/2
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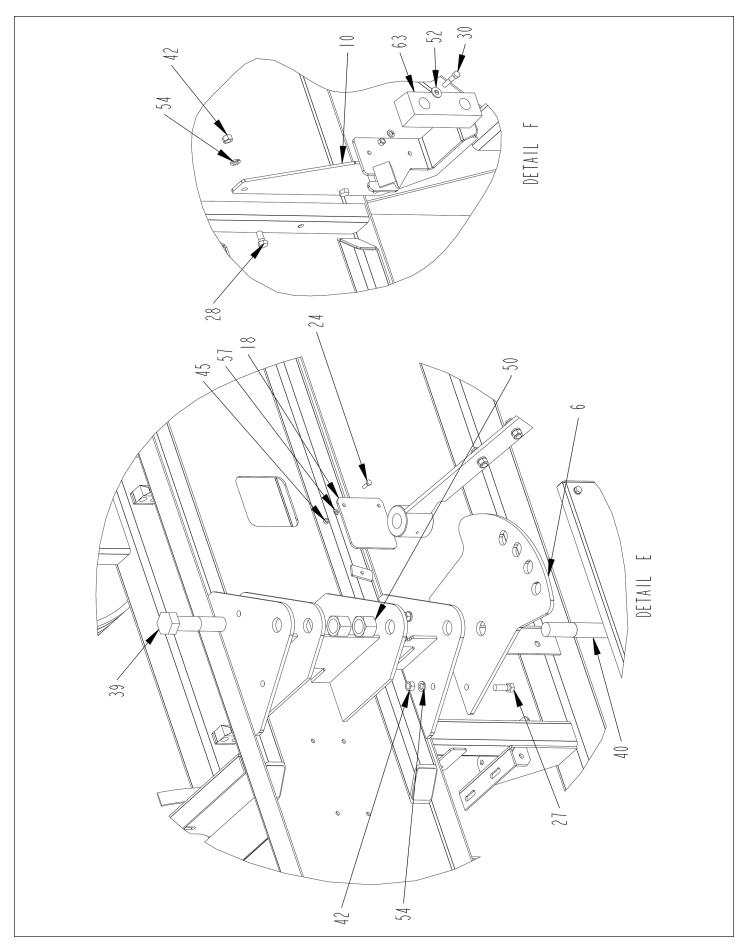
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6				
6				
7         4501971         1         SHISHLDMINFRM           8         4502214         1         CVINDRIVEBITIMFENT           9         4502217         1         BRRTSPEMMFRMAJGER           10         450224         1         BRRTSPEMMFRMAJGER           12         4502238         1         BRRTSPEMMFRMAJGER           14         4502239         2         PLWINTSPITAUGER           15         4502240         1         SPPTAUGERTRANSPORT           16         4502242         1         SPPTAUGERTRANSPORT           17         4502243         1         SHISHLDMINERM           18         4502388         1         SHICOVERNALVE           19         4502383         1         SHISHLDMINERM           21         4702715         1         SHICOVERNALVE           21         4702715         1         PINLOCKONVERIDISCH           21         4702715         1         PINLOCKONVERIDISCH           22         4800038         8         BOLTHERXISKY           23         4800034         2         BOLTHERXISKY           24         4800034         3         BOLTHERXISKY           25         4800034         4				
8				
9				
10				
12				
13				
14		4502224	1	
15	13	4502238	1	ARM\SPPT\AUGER\SWING
16		4502239	2	PL\MNT\SPPT\AUGER
17				
18				
19				
20				
21				
22				
23				
25				
28         4800033         8         BOLTHEX19/XZ           26         4800041         1         BOLTHEX1/2X1-1/2           27         4800082         6         BOLTHEX1/2X1-1/2           28         4800089         4         BOLTHEX1/8X4           30         4800142         2         BOLTHEX1/8X2           31         4800146         7         BOLTHEX1/8X2           32         4800281         2         BOLTHEX1/3X4X8           33         4800267         1         PINRLID1/4X1-3/4           34         480053         4         BOLTHEX1/3X1X8           35         4800662         1         BOLTHEX1/3X1X8           36         4800611         2         BOLTHEX1/3X1X           37         4800667         2         BOLTHEX1/3X1X           38         4800911         2         PINLYNOH1/4X2-1/2           39         4800968         1         BOLTHEX1/3X1X           40         4800970         1         BOLTHEX1/2X1X-1/2           41         4801198         4         SCRIAGA/38/1-1/2           41         4801198         4         SCRIAGA/38/1-1/2           42         4900002         NUTHEX1/1/2				
28				
28		4800041		BOLT\HEX\1/2X5
29	27	4800082	6	BOLT\HEX\1/2X1-1/2
30	28	4800085	4	BOLT\HEX\1/2X1
31		4800089		BOLT\HEX\3/8X4
33				
33				
34				
36				
36         4800601         2         BOLTHEXHX9NC           37         4800647         2         BOLTHEXHXHVIC           38         4800911         2         PINLYNCH1/4X2-1/2\)           39         4800968         1         BOLTHEXH           40         4800970         1         BOLTHEXH           41         4801198         4         SCRLAG3/8/X1-1/2           42         4900001         16         NUTHEXH2/16/C           43         4900002         6         NUTHEXJ3/8\NC           44         4900004         8         NUTHEXJ3/4\NC           45         4900091         1         NUTHEXJ4/INC           46         4900014         1         NUTHEXJ1/2\NC           47         490031         2         NUTHEXJ1/2\NC           48         4900083         15         NUTHEXJ1/2\NC           49         4900127         2         NUTHYLCK1-1/4\NC           51         4900139         3         NUTYPLCK1-1/4\NC           51         490139         3         NUTYPLCK1-1/4\NC           52         5000001         2         WSHLAT3/8           53         5000004         10         WASHLAT3/8				
37				
38				
39				
40				
41				
43				
44	42	4900001	16	NUT\HEX\1/2\NC
45	43	4900002	6	NUT\HEX\3/8\NC
46				
47				
48				
49         4900127         2         NUT\TPLCK\1\NC           50         4900135         2         NUT\TPLCK\3/4\GR8\NC           51         4900139         3         NUT\TPLCK\3/4\GR8\NC           52         5000001         2         WASH\FLAT\3/8           53         5000004         10         WASH\LOCK\1/2           54         5000006         16         WASH\LOCK\3/4           56         5000012         8         WASH\LOCK\3/8           57         5000024         6         WASH\LOCK\1/4           58         5000040         1         WASH\BUSH;MACH\1           59         5000053         2         WASH\LOCK\1           60         5000096         8         WASH\LOCK\1           61         5800620         1         JACK\5000\000\000\cdotS\cdoS\cdotS\cdoS\cdotS\cdotS\cdoS\cdotS\cdotS\cdotS\cdotS\cdoS\cdotS\cdotS\cdoS\cdoS\cdotS\cdotS				
50         4900135         2         NUTNYLCK\1-1/4\NC           51         4900139         3         NUTNTPLCK\3/4\GR8\NC           52         5000001         2         WASH\FLAT\3/8           53         5000004         10         WASH\LOCK\1/2           54         5000006         16         WASH\LOCK\1/2           55         5000012         8         WASH\LOCK\3/4           56         5000019         21         WASH\LOCK\3/8           57         5000024         6         WASH\LOCK\1/4           58         5000040         1         WASH\LOCK\1/4           59         5000053         2         WASH\LOCK\1           60         5000096         8         WASH\LOCK\1           61         5800620         1         JACK\5000\0NE\SPD\10\0           62         6100048         1         SPRNG\.249OT\13/16\ID\1-5/16OD\2-3/8LOA           63         7501045         2         LATCH\ADJ\OTC\4" GRIP           64         7501047         1         HITCH\BASE\#3\PPI\1"PIN           66         7501048         1         HITCH\BASE\#3\PPI\1"PIN           67         8100434         1         BRKT\PTO           69         <				,
51         4900139         3         NUT\TPLCK\3/4\GR8\NC           52         5000001         2         WASH\FLAT\3/8           53         5000004         10         WASH\FLAT\1/2           54         5000006         16         WASH\LOCK\1/2           55         5000012         8         WASH\LOCK\3/4           56         5000019         21         WASH\LOCK\1/4           57         5000024         6         WASH\BUSH\BUSH\BUGK\1/1           58         5000040         1         WASH\BUSH\BUSH\BUSH\BUSH\BUSH\BUSH\BUSH\BU				
52         5000001         2         WASH\FLAT\3/8           53         5000004         10         WASH\LOCK\1/2           54         5000006         16         WASH\LOCK\3/4           55         5000012         8         WASH\LOCK\3/4           56         5000019         21         WASH\LOCK\3/8           57         5000024         6         WASH\LOCK\1/4           58         5000040         1         WASH\BUSH;MACH\1           59         5000053         2         WASH\LOCK\1           60         5000096         8         WASH\FLAT\SPCL\13/32X7GAX1-1/2OD           61         5800620         1         JACK\5000\ONE;SPD\10\           62         6100048         1         SPRNG249OT\13/16ID\1-5/16OD\2-3/8LOA           63         7500635         1         CUSH\RBBR\7-3/4X2-7/16X2           64         7501045         2         LATCH\ADJ\OTC\4" GRIP           65         7501047         1         HITCH\BASE\#3\PPI\1"PIN           66         7501048         1         HITCH\CLEVIS\PPI\1"PIN           67         8100434         1         BRKT\PTO           69         4100203         1         CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE <td></td> <td></td> <td></td> <td></td>				
53         5000004         10         WASH\FLAT\1/2           54         5000006         16         WASH\LOCK\1/2           55         5000012         8         WASH\LOCK\3/4           56         5000019         21         WASH\LOCK\1/4           58         5000024         6         WASH\LOCK\1/4           59         5000053         2         WASH\LOCK\1           60         5000096         8         WASH\FLAT\SPCL\13/32X7GAX1-1/2OD           61         5800620         1         JACK\5000\ONE;SPD\10\           62         6100048         1         SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA           63         7500635         1         CUSH\RBBR\7-3/4X2-7/16X2           64         7501045         2         LATCH\ADJ\OTC\4" GRIP           65         7501047         1         HITCH\BASE\#3\PP\1"PIN           66         7501048         1         HITCH\CLEVIS\PP\1"PIN           67         810434         1         BRKT\PTO           68         8101828         2         SPNDL\BOLT-ON           69         4100203         1         CYL\HYD\3X24\1-1/2ROD           70         4100261         2         CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE </td <td></td> <td></td> <td></td> <td></td>				
54 500006 16 WASH\LOCK\1/2 55 5000012 8 WASH\LOCK\3/4 56 5000019 21 WASH\LOCK\3/8 57 5000024 6 WASH\LOCK\1/4 58 5000040 1 WASH\BUSH;MACH\1 59 5000053 2 WASH\LOCK\1 60 5000096 8 WASH\LOCK\1 61 5800620 1 JACK\5000\ONE;SPD\10\ 62 6100048 1 SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA 63 7500635 1 CUSH\RBBR\7-3/4X2-7/16X2 64 7501045 2 LATCH\ADJ\OTC\4" GRIP 65 7501047 1 HITCH\BASE\#3\PPI\1"PIN 66 7501048 1 BRKT\PTO 68 8101828 2 SPNDL\BOLT-ON 69 4100203 1 CYL\HYD\3X24\1-1/2ROD -CANADIAN TOOL & DIE				
55         5000012         8         WASH\LOCK\3/4           56         5000019         21         WASH\LOCK\3/8           57         5000024         6         WASH\LOCK\1/4           58         5000040         1         WASH\BUSH;MACH\1           59         5000053         2         WASH\LOCK\1           60         5000096         8         WASH\FLAT\SPCL\13/32X7GAX1-1/2OD           61         5800620         1         JACK\5000\ONE;SPD\10\           62         6100048         1         SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA           63         7500635         1         CUSH\RBBR\7-3/4X2-7/16X2           64         7501045         2         LATCH\AD\JOTC\4" GRIP           65         7501047         1         HITCH\BASE\#3\PPI\1"PIN           66         7501048         1         HITCH\CLEVIS\PPI\1"PIN           67         8100434         1         BRKT\PTO           68         8101828         2         SPNDL\BOLT-ON           69         4100203         1         CYL\HYD\3X24\1-1/2ROD           70         4100261         2         CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
57         5000024         6         WASH\LOCK\1/4           58         5000040         1         WASH\BUSH;MACH\1           59         5000053         2         WASH\LOCK\1           60         5000096         8         WASH\FLAT\SPCL\13/32X7GAX1-1/2OD           61         5800620         1         JACK\5000\ONONE;SPD\10\           62         6100048         1         SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA           63         7500635         1         CUSH\RBBR\7-3/4X2-7/16X2           64         7501045         2         LATCH\ADJ\OTC\4" GRIP           65         7501047         1         HITCH\BASE\#3\PPI\1"PIN           66         7501048         1         HITCH\CLEVIS\PPI\1"PIN           67         8100434         1         BRKT\PTO           68         8101828         2         SPNDL\BOLT-ON           69         4100203         1         CYL\HYD\3X24\1-1/2ROD           70         4100261         2         CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
58         5000040         1         WASH\BUSH;MACH\1           59         5000053         2         WASH\LOCK\1           60         5000096         8         WASH\FLAT\SPCL\13/32X7GAX1-1/2OD           61         5800620         1         JACK\5000\ONE;SPD\10\           62         6100048         1         SPRNG\.2490T\13/16ID\1-5/16OD\2-3/8LOA           63         7500635         1         CUSH\RBBR\7-3/4X2-7/16X2           64         7501045         2         LATCH\ADJ\OTC\4" GRIP           65         7501047         1         HITCH\BASE\#3\PPI\1"PIN           66         7501048         1         HITCH\CLEVIS\PPI\1"PIN           67         8100434         1         BRKT\PTO           68         8101828         2         SPNDL\BOLT-ON           69         4100203         1         CYL\HYD\3X24\1-1/2ROD           70         4100261         2         CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE	56	5000019	21	WASH\LOCK\3/8
59       5000053       2       WASH\LOCK\1         60       5000096       8       WASH\FLAT\SPCL\13/32X7GAX1-1/2OD         61       5800620       1       JACK\5000\ONE;SPD\10\         62       6100048       1       SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA         63       7500635       1       CUSH\RBBR\7-3/4X2-7/16X2         64       7501045       2       LATCH\ADJ\OTC\4" GRIP         65       7501047       1       HITCH\BASE\#3\PPI\1"PIN         66       7501048       1       HITCH\CLEVIS\PPI\1"PIN         67       8100434       1       BRKT\PTO         68       8101828       2       SPNDL\BOLT-ON         69       4100203       1       CYL\HYD\3X24\1-1/2ROD         70       4100261       2       CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE	57	5000024	6	WASH\LOCK\1/4
60       5000096       8       WASH\FLAT\SPCL\13/32X7GAX1-1/2OD         61       5800620       1       JACK\5000\ONE;SPD\10\         62       6100048       1       SPRNG\.2490T\13/16ID\1-5/16OD\2-3/8LOA         63       7500635       1       CUSH\RBBR\7-3/4X2-7/16X2         64       7501045       2       LATCH\ADJ\OTC\4" GRIP         65       7501047       1       HITCH\BASE\#3\PPI\1"PIN         66       7501048       1       HITCH\CLEVIS\PPI\1"PIN         67       8100434       1       BRKT\PTO         68       8101828       2       SPNDL\BOLT-ON         69       4100203       1       CYL\HYD\3X24\1-1/2ROD         70       4100261       2       CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE	58	5000040	1	WASH\BUSH;MACH\1
61 5800620 1 JACK\5000\ONE;SPD\10\ 62 6100048 1 SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA 63 7500635 1 CUSH\RBBR\7-3/4X2-7/16X2 64 7501045 2 LATCH\ADJ\OTC\4" GRIP 65 7501047 1 HITCH\BASE\#3\PPI\1"PIN 66 7501048 1 HITCH\CLEVIS\PPI\1"PIN 67 8100434 1 BRKT\PTO 68 8101828 2 SPNDL\BOLT-ON 69 4100203 1 CYL\HYD\3X24\1-1/2ROD 70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				WASH\LOCK\1
62 6100048 1 SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA 63 7500635 1 CUSH\RBBR\7-3/4X2-7/16X2 64 7501045 2 LATCH\ADJ\OTC\4" GRIP 65 7501047 1 HITCH\BASE\#3\PPI\1"PIN 66 7501048 1 HITCH\CLEVIS\PPI\1"PIN 67 8100434 1 BRKT\PTO 68 8101828 2 SPNDL\BOLT-ON 69 4100203 1 CYL\HYD\3X24\1-1/2ROD 70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
63 7500635 1 CUSH\RBBR\7-3/4X2-7/16X2 64 7501045 2 LATCH\ADJ\OTC\4" GRIP 65 7501047 1 HITCH\BASE\#3\PPI\1"PIN 66 7501048 1 HITCH\CLEVIS\PPI\1"PIN 67 8100434 1 BRKT\PTO 68 8101828 2 SPNDL\BOLT-ON 69 4100203 1 CYL\HYD\3X24\1-1/2ROD 70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				,
64       7501045       2       LATCH\ADJ\OTC\4" GRIP         65       7501047       1       HITCH\BASE\#3\PPI\1"PIN         66       7501048       1       HITCH\CLEVIS\PPI\1"PIN         67       8100434       1       BRKT\PTO         68       8101828       2       SPNDL\BOLT-ON         69       4100203       1       CYL\HYD\3X24\1-1/2ROD         70       4100261       2       CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
65 7501047 1 HITCH\BASE\#3\PPI\1"PIN 66 7501048 1 HITCH\CLEVIS\PPI\1"PIN 67 8100434 1 BRKT\PTO 68 8101828 2 SPNDL\BOLT-ON 69 4100203 1 CYL\HYD\3X24\1-1/2ROD 70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
66 7501048 1 HITCH\CLEVIS\PPI\1"PIN 67 8100434 1 BRKT\PTO 68 8101828 2 SPNDL\BOLT-ON 69 4100203 1 CYL\HYD\3X24\1-1/2ROD 70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
67 8100434 1 BRKT\PTO 68 8101828 2 SPNDL\BOLT-ON 69 4100203 1 CYL\HYD\3X24\1-1/2ROD 70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
68 8101828 2 SPNDL\BOLT-ON 69 4100203 1 CYL\HYD\3X24\1-1/2ROD 70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
69 4100203 1 CYL\HYD\3X24\1-1/2ROD 70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				
70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE				



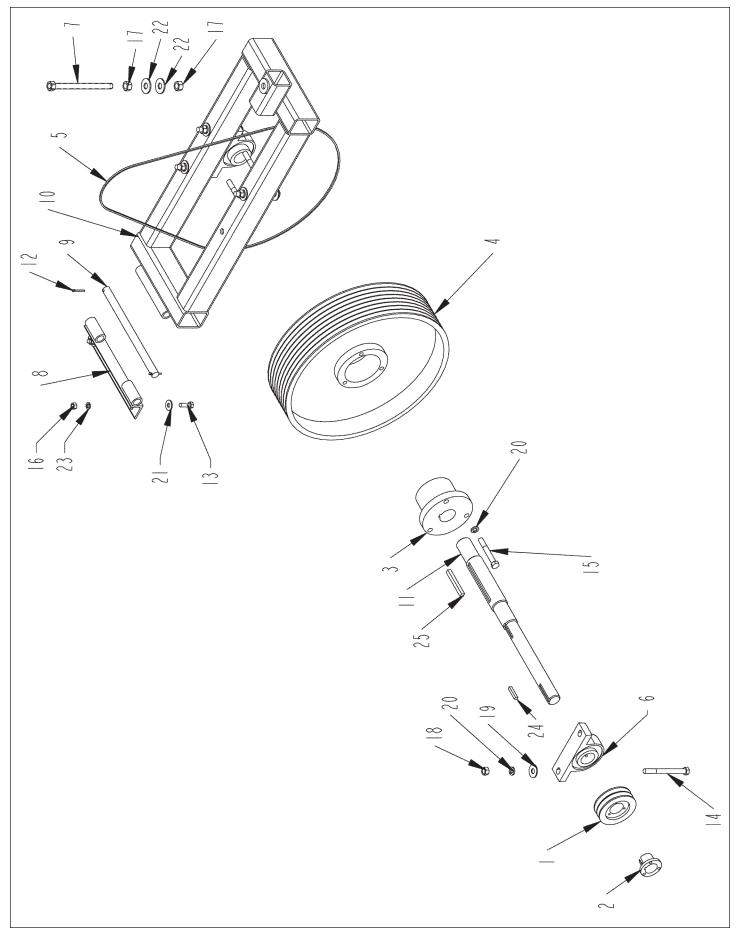
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3 4500754 1 BELTBRKTPTO 4 4501173 1 CVR\DRIVE\TUB\FRNT 5 4501966 2 HOOK\TRANS\AUGER\GP-50 6 4501967 1 PL\STOP\AUGER 7 4501971 1 SH\SHLD\M\RM 8 450185 1 CVR\DRIVE\T\W\RM 9 450214 1 PI\M\NT\PIVOT\AUGER 10 4502217 1 BRKT\SPPT\M\RM\AUGER 11 SEE OIL TANK ASSEMBLY 12 4502224 1 PL\M\NT\PUMP\HYD 13 4502239 2 PL\M\NT\SPPT\AUGER\SPPT\AUGER 15 4502240 1 SPPT\AUGER\SPPT\AUGER 16 4502242 1 ARM\SPPT\AUGER\SPPT\AUGER 17 4502243 1 SP\SSHLD\M\RM 18 450238 1 SH\COVER\VALVE\SPPT\SU\SU\SU\SPPT\SU\SU\SU\SPPT\SU\SU\SU\SPPT\SU\SU\SPPT\SU\SU\SP\SU\SPPT\SU\SU\SP\SU	
4         4501173         1         CVR\DRIVE\TUB\FRNT           5         4501966         2         HOOK\TRANS\AUGER\GP-50           6         4501967         1         PL\STOPAUGER           7         4501971         1         SH\SHLD\MNFRM           8         4502185         1         CVR\DRIVE\BTM\FRNT           9         4502214         1         PI\MNT\PUP\OT\AUGER           10         4502217         1         BRKT\SPPT\MNFRMAUGER           11         SEE OIL TANK ASSEMBLY           12         4502224         1         PL\MNT\PUMP\HYD           13         4502238         1         ARM\SPPT\AUGER\SWING           14         4502239         2         PL\MNT\SPPT\AUGER\TRANSPORT           16         4502240         1         SPPT\AUGER\TRANSPORT           16         4502243         1         SHISHLD\MNFRM           17         4502243         1         SHISHLD\MNFRM           18         4502368         1         SH\COVER\VALUE           19         4502564         2         BMPR\UHMW           20         4502809         1         MNFRM\GRNDR\GRAIN           21         4702715         1         P	
5         4501966         2         HOOK\TRANS\AUGER\GP-50           6         4501967         1         PLISTOP\AUGER           7         4501971         1         SHISHLDWINFRM           8         4502185         1         CVR\DRIVE\BTTM\FRNT           9         4502214         1         PINIMITPIVOTAUGER           10         4502217         1         BRKT\SPPTMNFFRM\AUGER           11         SEE OIL TANK ASSEMBLY           12         4502224         1         PLIMITPUMP\HYD           13         4502238         1         ARM\SPPTAUGER\SWING           14         4502239         2         PLIMITSPPTAUGER           15         4502240         1         SPPTAUGER\TRANSPORT           16         4502242         1         ARM\SPPT\SWING\AUGER           17         4502243         1         SHISHLDIMN\FRM           18         4502368         1         SHICOVER\VALUE\           19         4502564         2         BMPR\UHMW           20         4502809         1         MNFRMGRNDR\GRAIN           21         4702715         1         PINILLOCK\CNVYR\DISCH           22         4800033         8         BOL	
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7	
8       4502185       1       CVR\DRIVE\BTTM\FRNT         9       4502214       1       PINIMNTPIVOTAUGER         10       4502217       1       BRKT\SPPT\MNFRM\AUGER         11       SEE OIL TANK ASSEMBLY         12       4502224       1       PLWNT\PUMP\HYD         13       4502238       1       ARM\SPPT\AUGER\SWING         14       4502239       2       PLWNT\SPPT\AUGER         15       4502240       1       SPPT\AUGER\TRANSPORT         16       4502242       1       ARM\SPPT\SWING\AUGER         17       4502243       1       SH\SHLD\MNFRM         18       4502368       1       SH\COVER\VALUE\         19       4502564       2       BMPR\UHMW         20       4502809       1       MNFRM\GRNDR\GRAIN         21       4702715       1       PIN\LOCK\CNVYR\DISCH         22       4800003       8       BOLT\HEX\1/2X1-1/4         24       4800024       2       BOLT\HEX\1/2X1-1/4         25       4800033       8       BOLT\HEX\1/2X1-1/2         28       4800085       4       BOLT\HEX\1/2X1-1/2         28       4800089       4       BOLT\HEX\1/	
9	
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SEE OIL TANK ASSEMBLY   12	
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18       4502368       1       SH\COVER\VALVE\         19       4502564       2       BMPR\UHMW         20       4502809       1       MNFRM\GRNDR\GRAIN         21       4702715       1       PIN\LOCK\CNVYR\DISCH         22       4800003       8       BOLT\HEX\1/2X1-1/4         23       4800018       6       BOLT\HEX\1/2X1-1/4         24       4800024       2       BOLT\HEX\1/2X3/4         25       4800033       8       BOLT\HEX\1/2X5         26       4800041       1       BOLT\HEX\1/2X5         27       4800082       6       BOLT\HEX\1/2X1-1/2         28       4800085       4       BOLT\HEX\1/2X1         29       4800089       4       BOLT\HEX\3/8X4         30       4800142       2       BOLT\HEX\3/8X1-3/4         31       4800146       7       BOLT\HEX\3/8X2         32       4800248       2       BOLT\HEX\3/4X6         33       4800267       1       PIN\RLLD\1/4X1-3/4	
19	
20	
21       4702715       1       PIN\LOCK\CNVYR\DISCH         22       4800003       8       BOLT\HEX\3/8X1         23       4800018       6       BOLT\HEX\1/2X1-1/4         24       4800024       2       BOLT\HEX\1/4X3/4         25       4800033       8       BOLT\HEX\1/2X5         26       4800041       1       BOLT\HEX\1/2X5         27       4800082       6       BOLT\HEX\1/2X1-1/2         28       4800085       4       BOLT\HEX\1/2X1         29       4800089       4       BOLT\HEX\3/8X4         30       4800142       2       BOLT\HEX\3/8X1-3/4         31       4800146       7       BOLT\HEX\3/8X2         32       4800248       2       BOLT\HEX\3/4X6         33       4800267       1       PIN\RLLD\1/4X1-3/4	
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31 4800146 7 BOLT\HEX\3/8X2 32 4800248 2 BOLT\HEX\3/4X6 33 4800267 1 PIN\RLLD\1/4X1-3/4	
32 4800248 2 BOLT\HEX\3/4X6 33 4800267 1 PIN\RLLD\1/4X1-3/4	
33 4800267 1 PIN\RLLD\1/4X1-3/4	
34 4800503 4 BOLT\HEX\1/4X5/8\NC	
35	
36	
38 4800911 2 PIN\LYNCH\1/4X2-1/2\	
39 4800968 1 BOLT\HEX\1-1/4X5-1/2\GR5\NC	
40 4800970 1 BOLT\HEX	
41 4801198 4 SCR\LAG\3/8X1-1/2	
42 4900001 16 NUT\HEX\1/2\NC	
43 4900002 6 NUT\HEX\3/8\NC	
44 4900004 8 NUT\HEX\3/4\NC	
45 4900009 6 NUT\HEX\1/4\NC	
46 4900014 1 NUT\TPLCK\1/2\NC	
47 4900031 2 NUT\HEX\1\NC	
48 4900083 15 NUT\INSERT\3/8\.LONG\0.15-0.312\(.418/CD)	
49	
51 4900139 3 NUT\TPLCK\3/4\GR8\NC	
52 5000001 2 WASH\FLAT\3/8	
53 5000004 10 WASH\FLAT\1/2	
54 5000006 16 WASH\LOCK\1/2	
55 5000012 8 WASH\LOCK\3/4	
56 5000019 21 WASH\LOCK\3/8	
57 5000024 6 WASH\LOCK\1/4	
58 5000040 1 WASH\BUSH;MACH\1	
59 5000053 2 WASH\LOCK\1	
60 5000096 8 WASH\FLAT\SPCL\13/32X7GAX1-1/2OD	
61 5800620 1 JACK\5000\ONE;SPD\10\	
62 6100048 1 SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA	
63 7500635 1 CUSH\RBBR\7-3/4X2-7/16X2	
64 7501045 2 LATCH\ADJ\OTC\4" GRIP 65 7501047 1 HITCH\BASE\#3\PPI\1"PIN	
66 7501047 1 HITCH/CLEVIS/PPI/1 PIN	
67 8100434 1 BRKT\PTO	
68 8101828 2 SPNDL\BOLT-ON	
69 4100203 1 CYL\HYD\3X24\1-1/2ROD	
70 4100261 2 CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE	
70A 4100328 CYL\HYD\3X20\1-1/2ROD -RAM INDUSTRIES	



ITEM	PART	QTY.	PART DESCRIPTION
1	2600873	2	WHL\ASSY\235/85R/16\6-BOLT\16X6
2	2900163	2	HUB\6-BOLT\(875)COMPLETE
3	4500754	1	BELT\BRKT\PTO
4	4501173	1	CVR\DRIVE\TUB\FRNT
5	4501966	2	HOOK\TRANS\AUGER\GP-50
6 7	4501967 4501971	1 1	PL\STOP\AUGER SH\SHLD\MNFRM
8	4502185	1	CVR\DRIVE\BTTM\FRNT
9	4502214	1	PIN/MNT\PIVOT\AUGER
10	4502217	1	BRKT\SPPT\MNFRM\AUGER
11			SEE OIL TANK ASSEMBLY
12	4502224	1	PL\MNT\PUMP\HYD
13	4502238	1	ARM\SPPT\AUGER\SWING
14	4502239	2	PL\MNT\SPPT\AUGER
15	4502240	1	SPPT/AUGER\TRANSPORT
16	4502242	1	ARM\SPPT\SWING\AUGER
17	4502243	1	SH\SHLD\MNFRM
18	4502368	1	SH\COVER\VALVE\
19 20	4502564	2 1	BMPR\UHMW MNFRM\GRNDR\GRAIN
21	4502809 4702715	1	PIN\LOCK\CNVYR\DISCH
22	4800003	8	BOLT\HEX\3/8X1
23	4800018	6	BOLT\HEX\1/2X1-1/4
24	4800024	2	BOLT\HEX\1/4X3/4
25	4800033	8	BOLT\HEX\3/4X2
26	4800041	1	BOLT\HEX\1/2X5
27	4800082	6	BOLT\HEX\1/2X1-1/2
28	4800085	4	BOLT\HEX\1/2X1
29	4800089	4	BOLT\HEX\3/8X4
30	4800142	2	BOLT\HEX\3/8X1-3/4
31	4800146	7	BOLT/HEX\3/8X2
32	4800248	2	BOLT\HEX\3/4X6
33 34	4800267 4800503	1	PIN\RLLD\1/4X1-3/4
35	4800562	4 1	BOLT\HEX\1/4X5/8\NC BOLT\HEX\3/4X5\GR8\NC
36	4800601	2	BOLT\HEX\1X9\NC
37	4800647	2	BOLT\HEX\1X4\NC
38	4800911	2	PINLYNCH\1/4X2-1/2\
39	4800968	1	BOLT\HEX\1-1/4X5-1/2\GR5\NC
40	4800970	1	BOLT\HEX
41	4801198	4	SCR\LAG\3/8X1-1/2
42	4900001	16	NUT\HEX\1/2\NC
43	4900002	6	NUT\HEX\3/8\NC
44	4900004	8	NUT\HEX\3/4\NC
45	4900009	6	NUT\HEX\1/4\NC
46 47	4900014 4900031	1 2	NUT\TPLCK\1/2\NC NUT\HEX\1\NC
48	4900083	15	NUT/INSERT\3/8\.LONG\0.15-0.312\(.418/CD)
49	4900127	2	NUT\TPLCK\1\NC
50	4900135	2	NUT\NYLCK\1-1/4\NC
51	4900139	3	NUT\TPLCK\3/4\GR8\NC
52	5000001	2	WASH\FLAT\3/8
53	5000004	10	WASH\FLAT\1/2
54	5000006	16	WASH\LOCK\1/2
55	5000012	8	WASH\LOCK\3/4
56	5000019	21	WASH\LOCK\3/8
57	5000024	6	WASH\LOCK\1/4
58 50	5000040	1	WASH\BUSH;MACH\1
59 60	5000053 5000096	2 8	WASH\LOCK\1 WASH\FLAT\SPCL\13/32X7GAX1-1/2OD
61	5800620	1	JACK\5000\ONE;SPD\10\
62	6100048	1	SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA
63	7500635	1	CUSH\RBBR\7-3/4X2-7/16X2
64	7501045	2	LATCH/ADJ/OTC/4" GRIP
65	7501047	1	HITCH\BASE\#3\PPI\1"PIN
66	7501048	1	HITCH\CLEVIS\PPI\1"PIN
67	8100434	1	BRKT\PTO
68	8101828	2	SPNDL\BOLT-ON
69	4100203	1	CYL\HYD\3X24\1-1/2ROD
70	4100261	2	CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE
70A	4100328		CYL\HYD\3X20\1-1/2ROD -RAM INDUSTRIES

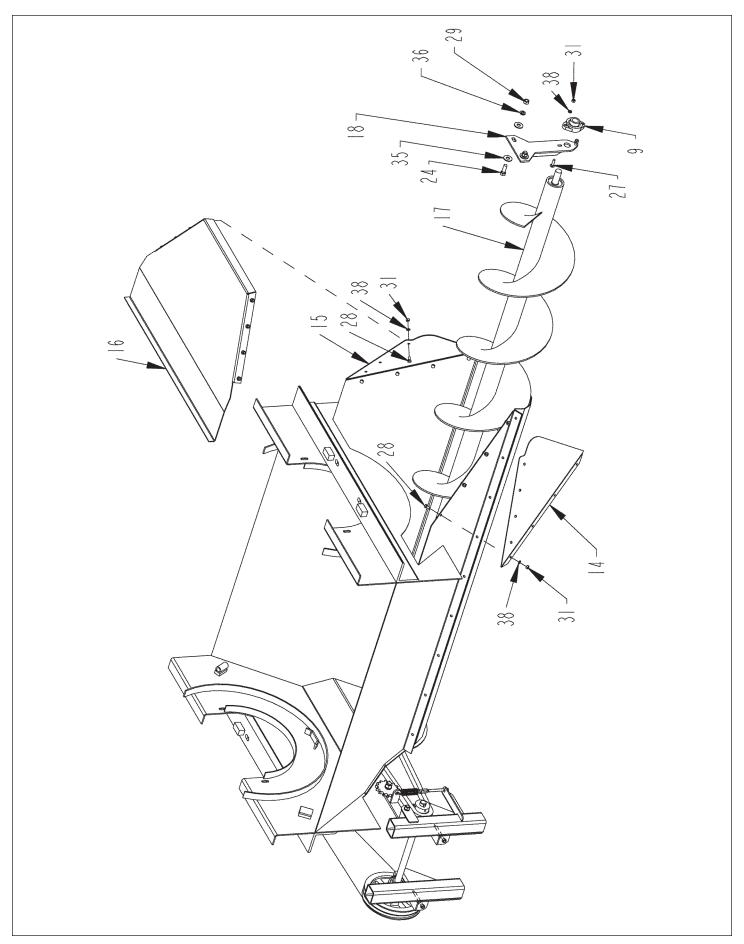


ITEM	PART	QTY.	PART DESCRIPTION
1	2600873	2	WHL\ASSY\235/85R/16\6-BOLT\16X6
2	2900163	2	HUB\6-BOLT\(875)COMPLETE
3	4500754	1	BELT\BRKT\PTO
4	4501173	1	CVR\DRIVE\TUB\FRNT
5	4501966	2	HOOK\TRANS\AUGER\GP-50
6 7	4501967 4501971	1 1	PL\STOP\AUGER SH\SHLD\MNFRM
8	4502185	1	CVR\DRIVE\BTTM\FRNT
9	4502214	1	PIN/MNT/PIVOT/AUGER
10	4502217	1	BRKT\SPPT\MNFRM\AUGER
11			SEE OIL TANK ASSEMBLY
12	4502224	1	PL\MNT\PUMP\HYD
13	4502238	1	ARM\SPPT\AUGER\SWING
14	4502239	2	PL\MNT\SPPT\AUGER
15	4502240	1	SPPT/AUGER/TRANSPORT
16	4502242	1	ARM\SPPT\SWING\AUGER
17	4502243	1	SH\SHLD\MNFRM
18	4502368	1	SH\COVER\VALVE\
19 20	4502564	2 1	BMPR\UHMW MNFRM\GRNDR\GRAIN
21	4502809 4702715	1	PIN\LOCK\CNVYR\DISCH
22	4800003	8	BOLT\HEX\3/8X1
23	4800018	6	BOLT\HEX\1/2X1-1/4
24	4800024	2	BOLT\HEX\1/4X3/4
25	4800033	8	BOLT\HEX\3/4X2
26	4800041	1	BOLT\HEX\1/2X5
27	4800082	6	BOLT\HEX\1/2X1-1/2
28	4800085	4	BOLT\HEX\1/2X1
29	4800089	4	BOLT\HEX\3/8X4
30	4800142	2	BOLT\HEX\3/8X1-3/4
31	4800146	7	BOLTHEX\3/8X2
32	4800248	2	BOLT\HEX\3/4X6
33 34	4800267 4800503	1	PIN\RLLD\1/4X1-3/4
35	4800562	4 1	BOLT\HEX\1/4X5/8\NC BOLT\HEX\3/4X5\GR8\NC
36	4800601	2	BOLT\HEX\13.9\NC
37	4800647	2	BOLT\HEX\1X4\NC
38	4800911	2	PINLLYNCH\1/4X2-1/2\
39	4800968	1	BOLT\HEX\1-1/4X5-1/2\GR5\NC
40	4800970	1	BOLT\HEX
41	4801198	4	SCR\LAG\3/8X1-1/2
42	4900001	16	NUT\HEX\1/2\NC
43	4900002	6	NUT\HEX\3/8\NC
44	4900004	8	NUT\HEX\3/4\NC
45	4900009	6	NUT\HEX\1/4\NC
46 47	4900014 4900031	1 2	NUT\TPLCK\1/2\NC NUT\HEX\1\NC
48	4900083	15	NUT\INSERT\3/8\.LONG\0.15-0.312\(.418/CD)
49	4900127	2	NUT\TPLCK\1\NC
50	4900135	2	NUT\NYLCK\1-1/4\NC
51	4900139	3	NUT\TPLCK\3/4\GR8\NC
52	5000001	2	WASH\FLAT\3/8
53	5000004	10	WASH\FLAT\1/2
54	5000006	16	WASH\LOCK\1/2
55	5000012	8	WASH\LOCK\3/4
56	5000019	21	WASH\LOCK\3/8
57	5000024	6	WASH\LOCK\1/4
58	5000040	1	WASH\BUSH;MACH\1
59 60	5000053 5000096	2 8	WASH\LOCK\1 WASH\FLAT\SPCL\13/32X7GAX1-1/2OD
61	5800620	1	JACK\5000\ONE;SPD\10\
62	6100048	1	SPRNG\.249OT\13/16ID\1-5/16OD\2-3/8LOA
63	7500635	1	CUSH\RBBR\7-3/4X2-7/16X2
64	7501045	2	LATCH/ADJ/OTC/4" GRIP
65	7501047	1	HITCH\BASE\#3\PPI\1"PIN
66	7501048	1	HITCH\CLEVIS\PPI\1"PIN
67	8100434	1	BRKT\PTO
68	8101828	2	SPNDL\BOLT-ON
69	4100203	1	CYL\HYD\3X24\1-1/2ROD
70	4100261	2	CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE
70A	4100328		CYL\HYD\3X20\1-1/2ROD -RAM INDUSTRIES



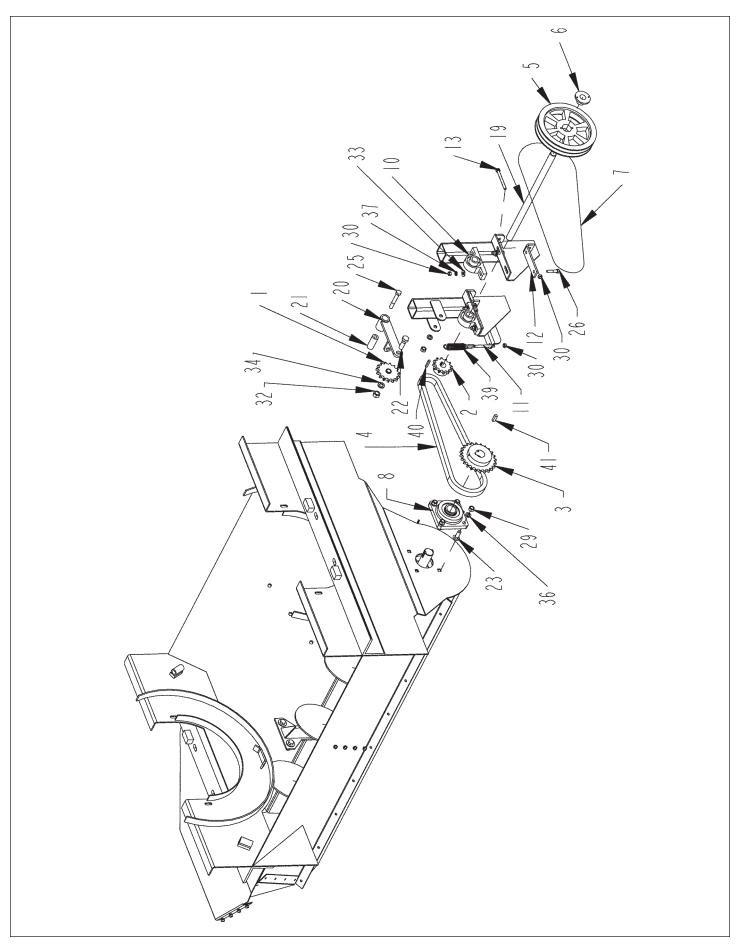
# **BULLWHEEL ASSEMBLY**

ITEM	PART	QTY.	PART DESCRIPTION
1	1400008	1	SHVE\B-2\5.0
2	1400504	1	BUSH\P1\1-3/4
3	1400639	1	BUSH\J\2-1/4\1/2KEY
4	1400640	1	SHVE\5V-8\23.6\J
5	1600098	8	V-BELT\5VX\95.0"
6	2000510	2	BRG\PB\2\2BOLT
7	4500045	1	BOLT\TGHTR\FRM\BELT\RTR
8	4500232	1	HINGE\FRN\BULLWHL
9	4500233	1	SHFT\HINGE\FRM\TGHTNR\BELT\RTR
10	4501157	1	FRM\TGHTNR\BULLWHL\H1100
11	4502223	1	SHFT\BELT\DRIVE\RTR\INPUT
12	4800050	2	PIN\COT\3/16X1-1/2
13	4800082	2	BOLT\HEX\1/2X1-1/2
14	4800144	4	BOLT\HEX\5/8X6-1/2
15	4800573	3	BOLT\HEX\5/8X4-1/2\NF\GR8
16	4900001	2	NUT\HEX\1/2\NC
17	4900004	3	NUT\HEX\3/4\NC
18	4900005	4	NUT\HEX\5/8\NC
19	5000002	8	WASH\FLAT\5/8
20	5000003	7	WASH\LOCK\5/8
21	5000004	4	WASH\FLAT\1/2
22	5000005	2	WASH\FLAT\3/4
23	5000006	2	WASH\LOCK\1/2
24	6200008	1	KEY\SQ\3/8X2
25	6200015	1	KEY\SQ\1/2X4-1/2



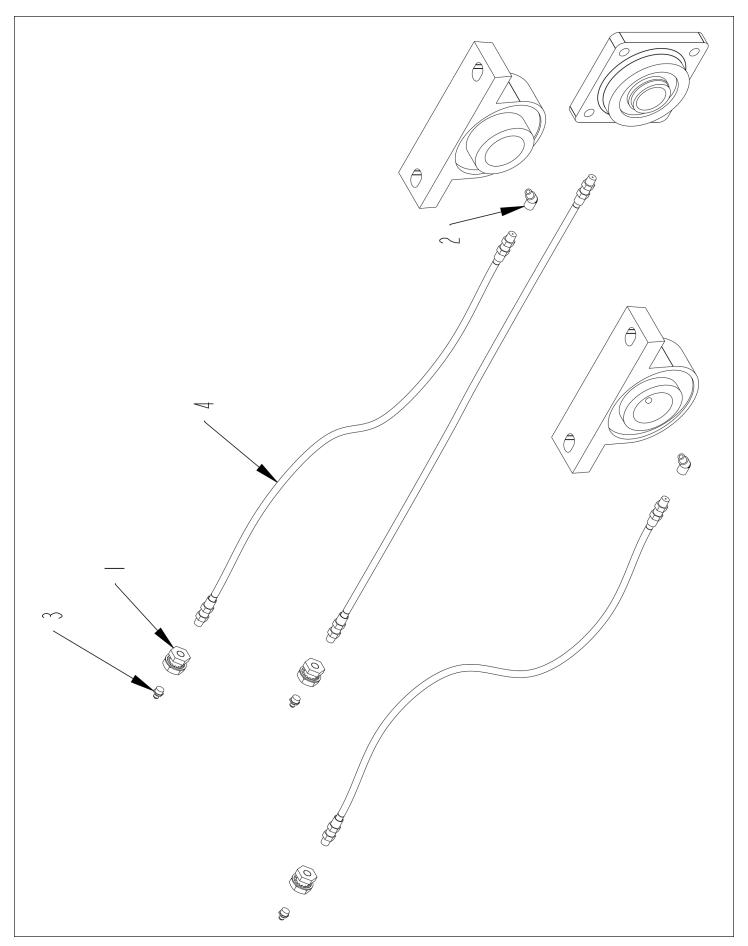
# BELLY AUGER ASSEMBLY - REAR

ITEM	PART	QTY.	PART DESCRIPTION
1	1000007	1	SPKT\15\5/8\IDLER
2	1000129	1	SPKT\60\B\12\1\1/4KW
3	1000132	1	SPKT\60\B\24\1-1/2\3/8
4	1100284	1	CHAIN\60\69
5	1400046	1	SHVE\2B\10\2BK100H
6	1400503	1	BUSH\H\1
7	1600009	1	V-BELT\B\60
8	2000303	1	BRG\FLG\1-1/2\BOLT
9	2000310	1	BRG\FLG\CAST\1\2BOLT
10	2000503	2	BRG\PB\1\2BOLT
11	4500368	1	BOLT\TNSN\CHAIN\CNVYR\BELLY
12	4501179	2	BRKT\TIGHTNER\BELT
13	4501216	2	BOLT\HEX\TGHTNR\BELT\DRIVE\CNVYR
14	4502176	1	SH\DFLCTR\AUGER
15	4502177	1	SH\DFLTR\AUGER\BELLY
16	4502178	1	SH\CVR\AUGER\BELLY
17	4502179	1	AUGER\BELLY\GRNDR
18	4502184	1	BRKT\SPPT\AUGER
19	4502189	1	RD\SHAFT\JACK\AUGER
20	4502190	1	BRKT\TNSR\DRV\AUGER
21	4502191	1	TUBE\RD\BUSHING
22	4800010	1	BOLT\HEX\5/8X2
23	4800061	4	BOLT\CRG\1/2X1-1/2\NC
24	4800082	2	BOLT\HEX\1/2X1-1/2
25	4800135	1	BOLT\HEX\1/2X3-1/2
26	4800142	4	BOLT\HEX\3/8X1-3/4
27	4800474	2	BOLT\CRG\5/16X1-1/4\NC
28	4800508	16	BOLT\HEX\5/16X5/8\NC
29	4900001	7	NUT\HEX\1/2\NC
30	4900002	9	NUT\HEX\3/8\NC
31	4900003	18	NUT\HEX\5/16\NC
32	4900005	1	NUT\HEX\5/8\NC
33	5000001	4	WASH\FLAT\3/8
34	5000003	1	WASH\LOCK\5/8
35	5000004	4	WASH\FLAT\1/2
36	5000006	7	WASH\LOCK\1/2
37	5000019	4	WASH\LOCK\3/8
38	5000022	18	WASH\LOCK\5/16
39	6100010	1	SPRING\EXT\.55W X 1/2O.D. X 3
40	6200005	1	KEY\SQ\1/4X1-1/2
41	6200027	1	KEY\SQ\3/8X1-1/4



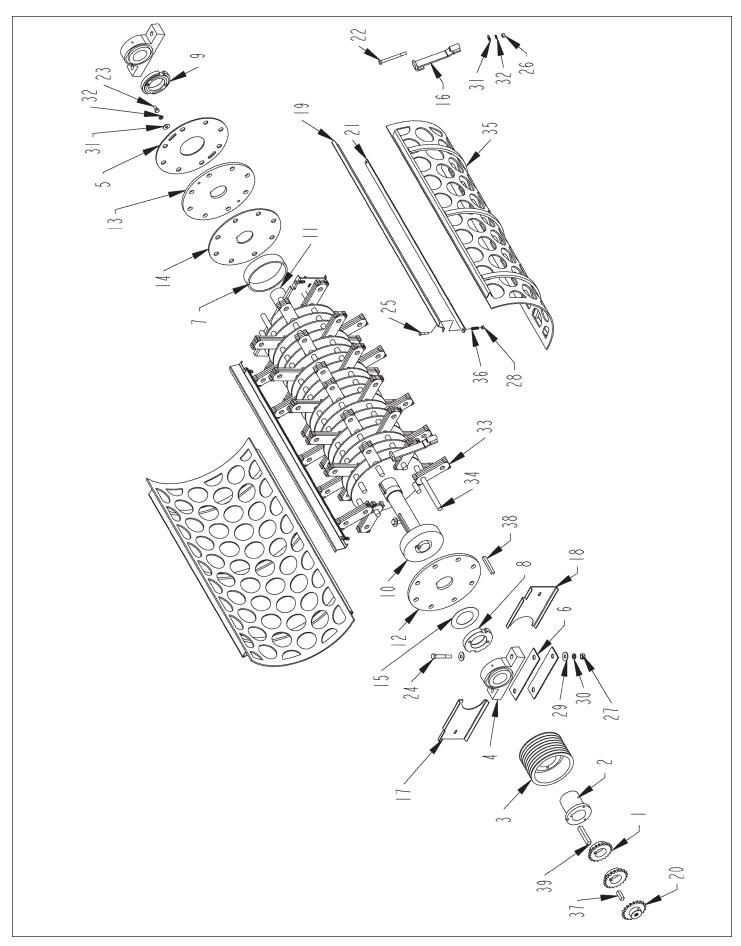
### BELLY AUGER ASSEMBLY - FRONT

ITEM	PART	QTY.	PART DESCRIPTION
1	1000007	1	SPKT\15\5/8\IDLER
2	1000129	1	SPKT\60\B\12\1\1/4KW
3	1000132	1	SPKT\60\B\24\1-1/2\3/8
4	1100284	1	CHAIN\60\69
5	1400046	1	SHVE\2B\10\2BK100H
6	1400503	1	BUSH\H\1
7	1600009	1	V-BELT\B\60
8	2000303	1	BRG\FLG\1-1/2\BOLT
9	2000310	1	BRG\FLG\CAST\1\2BOLT
10	2000503	2	BRG\PB\1\2BOLT
11	4500368	1	BOLT\TNSN\CHAIN\CNVYR\BELLY
12	4501179	2	BRKT\TIGHTNER\BELT
13	4501216	2	BOLT\HEX\TGHTNR\BELT\DRIVE\CNVYR
14	4502176	1	SH\DFLCTR\AUGER
15	4502177	1	SH\DFLTR\AUGER\BELLY
16	4502178	1	SH\CVR\AUGER\BELLY
17	4502179	1	AUGER\BELLY\GRNDR
18	4502184	1	BRKT\SPPT\AUGER
19	4502189	1	RD\SHAFT\JACK\AUGER
20	4502190	1	BRKT\TNSR\DRV\AUGER
21	4502191	1	TUBE\RD\BUSHING
22	4800010	1	BOLT\HEX\5/8X2
23	4800061	4	BOLT\CRG\1/2X1-1/2\NC
24	4800082	2	BOLT\HEX\1/2X1-1/2
25	4800135	1	BOLT\HEX\1/2X3-1/2
26	4800142	4	BOLT\HEX\3/8X1-3/4
27	4800474	2	BOLT\CRG\5/16X1-1/4\NC
28	4800508	16	BOLT\HEX\5/16X5/8\NC
29	4900001	7	NUT\HEX\1/2\NC
30	4900002	9	NUT\HEX\3/8\NC
31	4900003	18	NUT\HEX\5/16\NC
32	4900005	1	NUT\HEX\5/8\NC
33	5000001	4	WASH\FLAT\3/8
34	5000003	1	WASH\LOCK\5/8
35	5000004	4	WASH\FLAT\1/2
36	5000006	7	WASH\LOCK\1/2
37	5000019	4	WASH\LOCK\3/8
38	5000022	18	WASH\LOCK\5/16
39	6100010	1	SPRING\EXT\.55W X 1/2O.D. X 3
40	6200005	1	KEY\SQ\1/4X1-1/2
41	6200027	1	KEY\SQ\3/8X1-1/4

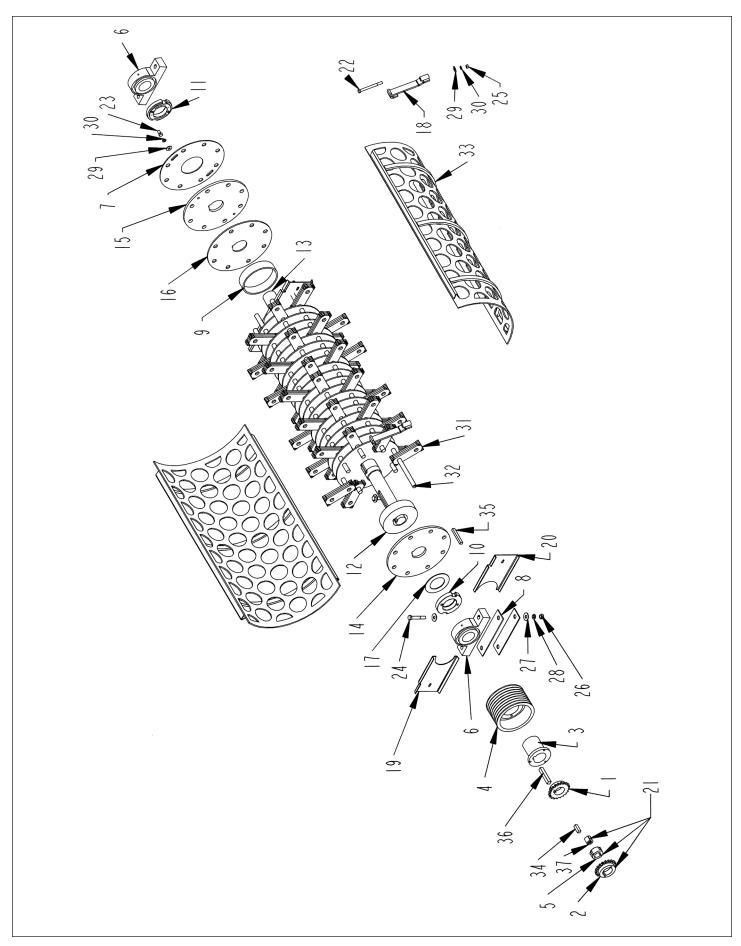


# GREASE LINES S.N. 0102 & UP

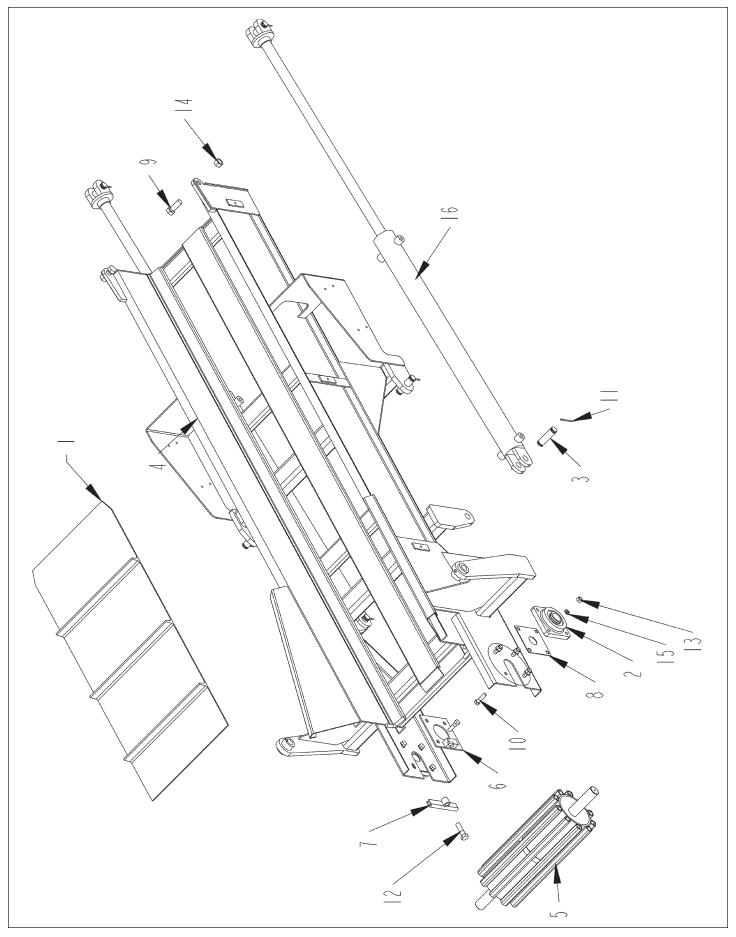
ITEM	PART	QTY.	PART DESCRIPTION
1	3800895	3	FTG\1/8FP\CPLG\ANCHOR\5/8NF
2	3800244	2	FTG\1/8MPX1/8FP\45
3	3800043	3	FTG\LUB\1/8MPXZRK\SHORT
4	3701448	3	HOSE\LUB\1/8X31\MPS-MPS



ITEM	PART	QTY.	PART DESCRIPTION
1	1000219	2	SPKT\60\B\20\2-7/16\5/8KW
2	1400624	1	BUSH\QD\F\3"
3	1400637	1	SHVE\5V-8\9.25\F
4	2000512	2	BRG\PB\3\2BOLT\E\DODGE
5	4500019	1	PL\RTR\MOVEABLE5.32IDX3/16
6	4500097	4	SHIM\BRG\RTR
7	4500106	16	SPCR\PL\RTR
8	4500142	1	NUT\CYL\3-1/2
9	4500146	1	NUT\RTR\3-1/2 W/SHOULDER
10	4500149	6	SPCR\RTR\CAST\2
11	4500482	1	SHFT\RTR\3-1/2X72
12	4500505	1	PL\RTR\END\SLUGS\3.5ID
13	4500506	1	PL\RTR\TPPD\3-1/2ID
14	4500507	21	PL\RTR\3.5IDX1/4\STD
15	4500626	1	WASH\THRUST\3-5/8IDX6SQ
16	4501200	2	HOOK\SCRN\GRDR\BOLTED
17	4501290	2	CVR\BRG
18	4501291	2	CVR\BRG
19	4502099	2	SH\SEAL\SCRN
20	4502627	1	CPLR\PUMP\6020CHNX7/8SPLN
21	4502560	2	HLDDWN\SEAL\SCRN
22	4800077	1	BOLT\HEX\1/2X5-1/2
23	4800085	2	BOLT\HEX\1/2X1
24	4800100	4	BOLT\HEX\5/8X4
25	4800142	4	BOLT\HEX\3/8X1-3/4
26	4900001	1	NUT\HEX\1/2\NC
27	4900005	4	NUT\HEX\5/8\NC
28	4900030	4	NUT\NYLCK\3/8\NC
29	5000002	8	WASH\FLAT\5/8
30	5000003	4	WASH\LOCK\5/8
31	5000004	3	WASH\FLAT\1/2
32	5000006	3	WASH\LOCK\1/2
33	5200002	132	3/8 AB SUPREME HAMMER
34	5300019	8	SHFT\HMMR\15/16 X 50
35	5400062	2	SCRN\4HL\1/4\H1100
36	6100064	4	SCRAPERSPRING
37	6200029	1	KEY\SQ\5/8X2
38	6200042	4	KEY\RECT\1/2X5/8X4-1/2
39	6200054	1	KEY\SQ\3/4X4-1/2
SCREEN	<b>S</b> 5400095		SCRN\1/8HL\1/4\W/DBLR
	5400093		SCRN\3/16HL\1/4
	5400074		SCRN\1/4HL\1/4
	5400052		SCRN\3/8HL\1/4
	5400054		SCRN\1/2HL\1/4
	5400055		SCRN\5/8HL\1/4
	5400056		SCRN\3/4HL\1/4
	5400049		SCRN\1HL\1/4
	5400066		SCRN\1-1/2HL\1/4
	5400050		SCRN\2HL\1/4
	5400051		SCRN\3HL\1/4
	5400062		SCRN\4HL\1/4
	5400102		SCRN\5HL\1/4
	5400110		SCRN\6HL\1/4
	5400111		SCRN\7HL\1/4
	5400103		SCRN\8HL\1/4
	5400080		SCRN\DUMMY\1/4
NOT SHO	OWN		
	1100193		CHAIN\60DBL\19
	1100064		CHAIN\60DBL\CL

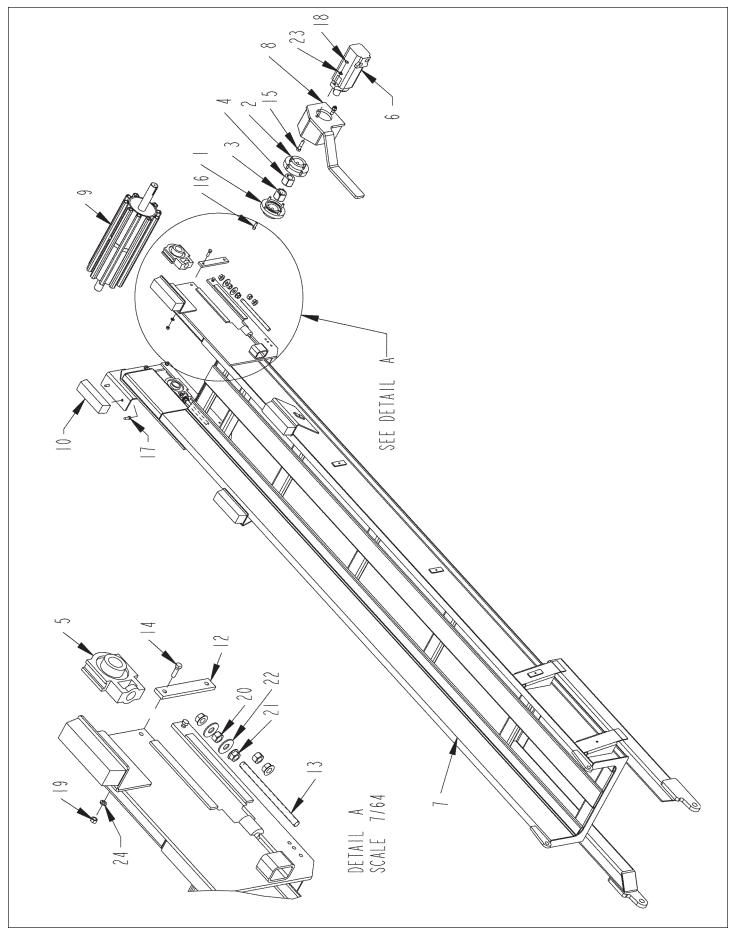


ITEM	PART	QTY.	PART DESCRIPTION
1	1000219	1	SPKT\60\B\20\2-7/16\5/8KW
2	1000295	1	SPKT\60\TPR\20\2012\REV
3	1400624	1	BUSH\R2\3
4	1400637	1	SHVE\5V-8\9.25\F
5	1400658	1	BUSH\TAPER\1-1/2\2012\W/KEY
6	2000512	2	BRG\PB\3\2BOLT\E\DODGE
7	4500019	1	PL\RTR\MOVEABLE5.32IDX3/16
8	4500097	4	SHIM\BRG\RTR
9	4500106	16	SPCR\PL\RTR
10	4500142	1	NUT\CYL\3-1/2
11	4500146	1	NUT\RTR\3-1/2 W/SHOULDER
12	4500149	6	SPCR\RTR\CAST\2
13	4500482	1	SHFT\RTR\3-1/2X72
14	4500505	1	PL\RTR\END\SLUGS\3.5ID
15	4500506	1	PL\RTR\TPPD\3-1/2ID
16	4500507	21	PL\RTR\3.5IDX1/4\STD
17	4500626	1	WASH\THRUST\3-5/8IDX6SQ
18	4501200	2	HOOK\SCRN\GRDR\BOLTED
19	4501290	2	CVR\BRG
20	4501291	2	CVR\BRG
21	4502627	1	CPLR\DRV\PMP\6020CHNX7/8SPLN (INCLUDES 2, 5 & 37)
22	4800077	1	BOLT\HEX\1/2X5-1/2
23	4800085	2	BOLT\HEX\1/2X1
24	4800100	4	BOLT\HEX\5/8X4
25	4900001	1	NUT\HEX\1/2\NC
26	4900005	4	NUT\HEX\5/8\NC
27	5000002	8	WASH\FLAT\5/8
28	5000003	4	WASH\LOCK\5/8
29	5000004	3	WASH\FLAT\1/2
30	5000006	3	WASH\LOCK\1/2
31	5200002	132	3/8 AB SUPREME HAMMER
32	5300019	8	SHFT\HMMR\15/16 X 50
33	5400062	2	SCRN\4HL\1/4\H1100
34	6200029	1	KEY\SQ\5/8X2
35	6200042	4	KEY\RECT\1/2X5/8X4-1/2
36	6200054	1	KEY\SQ\3/4X4-1/2
37	7501443	1	INSERT\SPLINED\7/8;13TTHX1-1/2OD
	4502355		RTR\ASSY\50X15/16RD\GP50
SCREENS	3		
	5400095		SCRN\1/8HL\1/4\W/DBLR
	5400074		SCRN\3/16HL\1/4
	5400052		SCRN\1/4HL\1/4
	5400053		SCRN\3/8HL\1/4
	5400054		SCRN\1/2HL\1/4
	5400055		SCRN\5/8HL\1/4
	5400056		SCRN\3/4HL\1/4
	5400049		SCRN\1HL\1/4
	5400066		SCRN\1-1/2HL\1/4
	5400050		SCRN\2HL\1/4
	5400051		SCRN\3HL\1/4
	5400062		SCRN\4HL\1/4
	5400102		SCRN\5HL\1/4
	5400110		SCRN\6HL\1/4
	5400111		SCRN\7HL\1/4
	5400103		SCRN\8HL\1/4
	5400080		SCRN\DUMMY\1/4



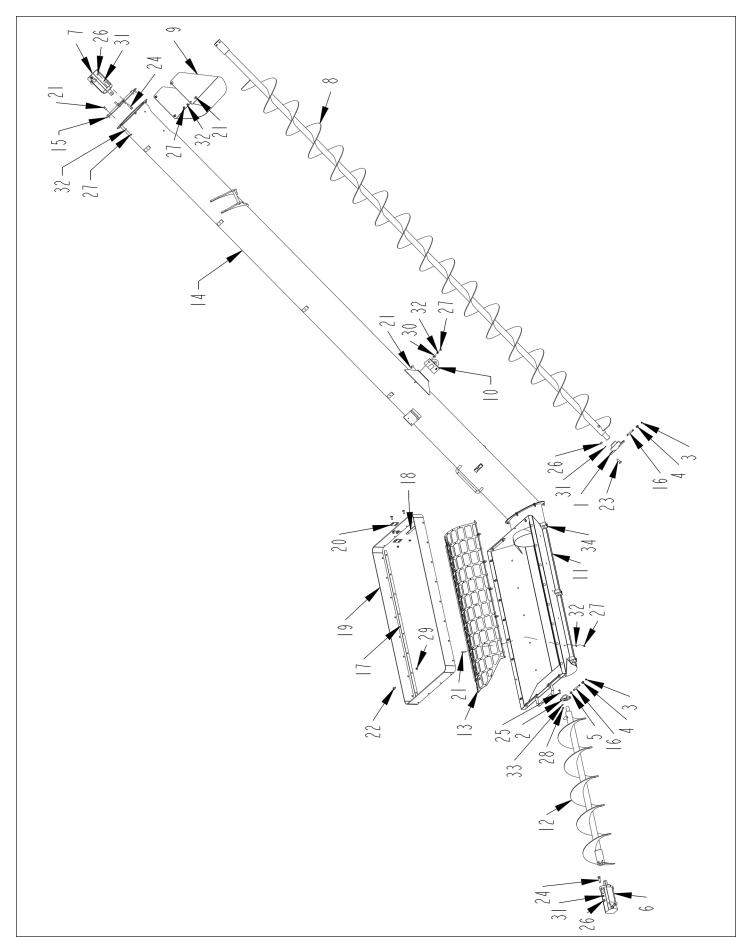
# LOWER DISCHARGE ASSEMBLY

ITEM	PART	QTY.	PART DESCRIPTION
1	1700017	1	BELT\CNVYR\18\39'4\W/DTCHMN
2	2000303	2	BRG\FLG\1-1/2\BOLT
3	4100030	6	PIN 1" X 3-1/2" HYD. CYL.
4	4502180	1	CONV\LOWER
5	4502226	1	RLLR\CONV\TAIL\18"
6	4701528	1	BRKT\ADJ\TRACKING\CNVYR\DISCH
7	4701529	1	HOOK\ROD\ADJ\BELT\CNVYR\DISCH
8	4704067	2	PL\SEAL\BRG
9	4800033	2	BOLT\HEX\3/4X2 (THRU S.N. 0101)
9A	4800017		BOLT\HEX\3/4X3 (S.N. 0102 & UP)
10	4800178	8	BOLT\HEX\1/2X1-3/4
11	4800203	12	PIN\COT\5/32X2
12	4800350	1	BOLT\HEX\5/8X2-1/4
13	4900001	8	NUT\HEX\1/2\NC
14	4900139	2	NUT\TPLCK\3/4\GR8\NC
15	5000006	8	WASH\LOCK\1/2
16	4100175	2	CYL\HYD\3X36\PARALLEL



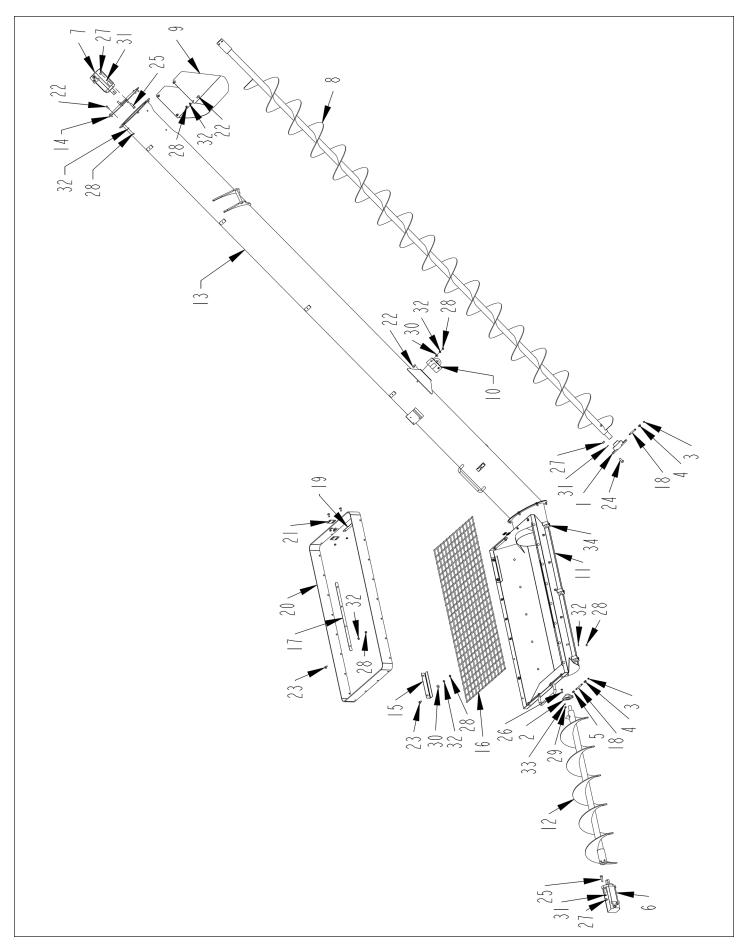
# UPPER DISCHARGE ASSEMBLY

ITEM	PART	QTY.	PART DESCRIPTION
1	1400632	1	CPLR\RIGID\MALE\FLANGE\DODGE\003001
2	1400633	1	CPLR\RIGID\FEMALE\FLANGE\DODGE\003002
3	1400634	1	BUSH\TAPER\1-1/2SH\3/8KW\DODGE\119056
4	1400635	1	BUSH\TAPER\1-1/4SH\5/16KW
5	2000320	2	BRG\TUU\1-1/2\W-ECC\BSEAL
6	3900010	1	MTR\HYD\24\2000\SAE;A
7	4502181	1	CONV\UPPER
8	4502227	1	BRKT\ARM\TORQUE\MTR
9	4502228	1	RLLR\CONV\HEAD\18"
10	4502564	4	BMPR\UHMW
11	4701529	1	HOOK\ROD\ADJ\BELT\CNVYR\DISCH
12	4702204	2	STRAP\REINF\GUIDE\BRG\CNVYR
13	4702205	2	BOLT\ADJ\RLLR\DRV\CNVYR
14	4800098	4	BOLT\HEX\3/8X1-1/4\NC
15	4800114	2	BOLT\HEX\1/2X2
16	4800167	4	SCR\CAP\ALN\3/8X1-1/4\NC
17	4801198	8	SCR\LAG\3/8X1-1/2
18	4900001	2	NUT\HEX\1/2\NC
19	4900002	4	NUT\HEX\3/8\NC
20	4900005	4	NUT\HEX\5/8\NC
21	4900110	6	NUT\FLG\SERR\5/8\NC
22	5000002	4	WASH\FLAT\5/8
23	5000006	2	WASH\LOCK\1/2
24	5000019	4	WASH\LOCK\3/8



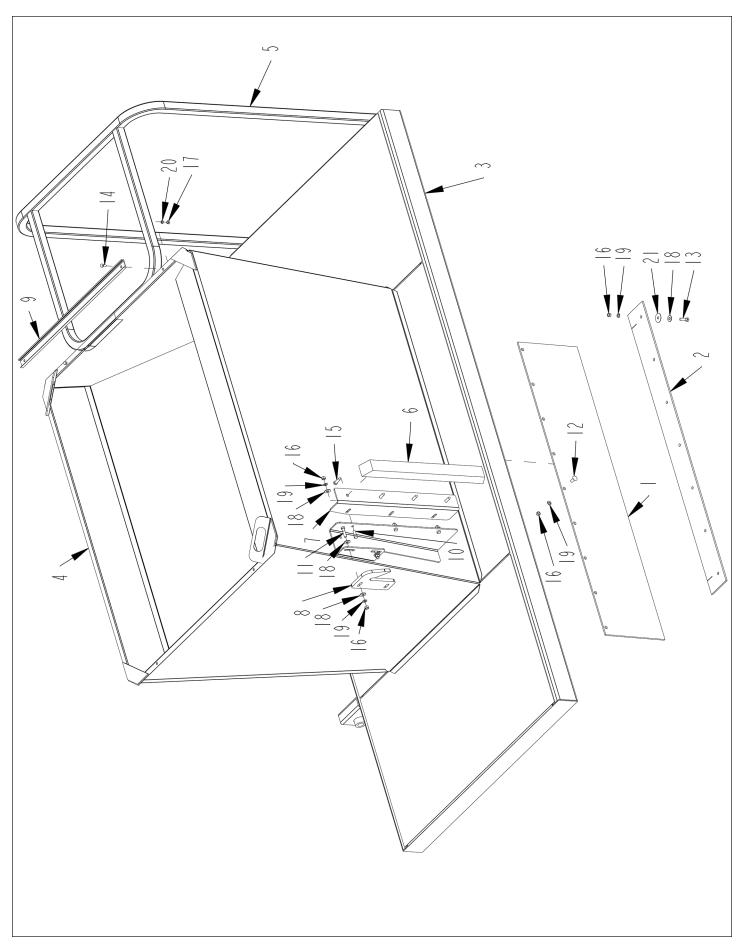
### AUGER ASSEMBLY THRU S.N. 0101

ITEM	PART	QTY.	PART DESCRIPTION
1	2000308	1	BRG\FLG\CAST\1-1/2\2BOLT
2	2000310	1	BRG\FLG\CAST\1\2BOLT
3	3800043	2	FTG\LUB\1/8MPXZRK\SHORT
4	3800102	2	FTG\1/8FP\CPLG\LW
5	3800283	1	FTG\LUB\1/4NFX1/8FP\ADPT
6	3900020	4	MTD/UVD/44 0/2000/CAE.A.
6 6A	3900020	1	MTR\HYD\11.9\2000\SAE;A;
0A	3900010	1	MTR\HYD\24\2000\SAE;A
7	3900020	1	MTR\HYD\11.9\2000\SAE;A;
8	4502201	1	AUGER\FLIGHTING\WELD
9	4502204	1	SH\SPOUT\AUGER
10	4502213	2	BRKT\MNT\AUGER\PIVOT
11	4502234	1	HPPR\AUGER\LOADING
12	4502236	1	AUGER\HPPR
13	4502237	1	SH\SHLD\AUGER\SCRN
14	4502244	1	TUBE\AUGER\GRINDER
15	4502245	1	SH\CAP\TUBE\AUGER
16	4502390	2	NIPPLE\PIPE\1/8X4-1/4
17	4502551	2	DBLR\BELT\HPPR\AUGER
18	4502552	4	DBLR\BELT\HPPR\AUGER
19	4502555	1	BELT\HPPR\AUGER
20	4502556	2	DBLR\BELT\HPPR\AUGER
21	4800003	30	BOLT\HEX\3/8X1
22	4800053	28	BOLT\CRG\3/8X1\NC
23	4800061	2	BOLT\CRG\1/2X1-1/2\NC
24	4800178	4	BOLT\HEX\1/2X1-3/4
25	4800474	2	BOLT\CRG\5/16X1-1/4\NC
26	4900001	6	NUT\HEX\1/2\NC
27	4900002	30	NUT\HEX\3/8\NC
28	4900003	2	NUT\HEX\5/16\NC
29	4900023	28	NUT\TPLCK\3/8\NC
30	5000001	4	WASH\FLAT\3/8
31	5000006	6	WASH\LOCK\1/2
32	5000019	30	WASH\LOCK\3/8
33	5000022	2	WASH\LOCK\5/16
34	7501337	4	CLMP\HOSE\CUSH\3/8



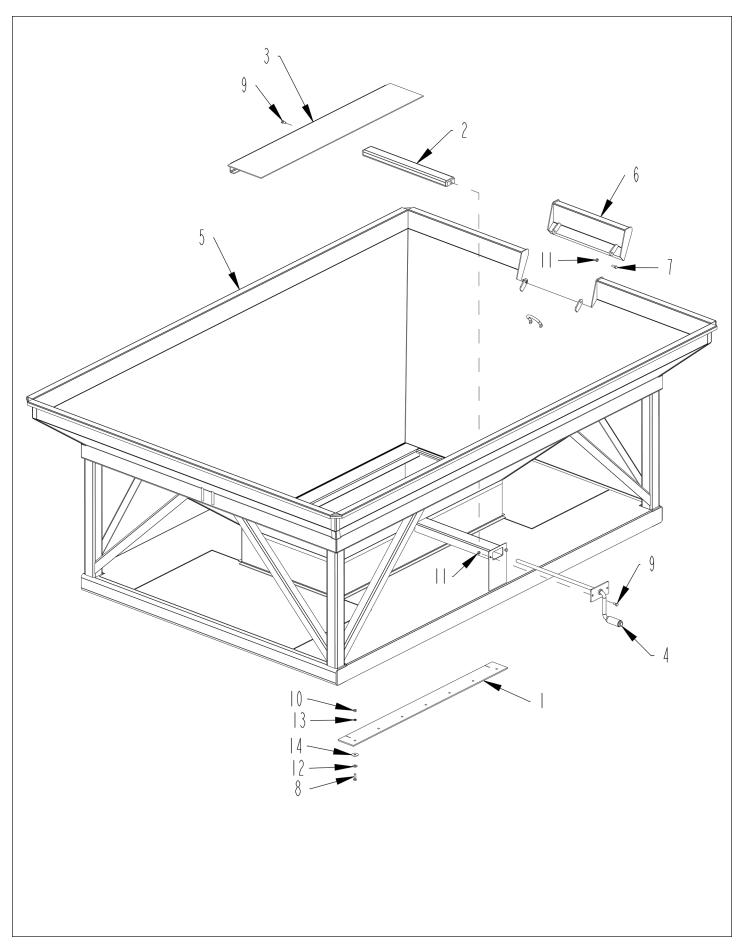
### AUGER ASSEMBLY S.N. 0102 & UP

ITEM	PART	QTY.	PART DESCRIPTION
1	2000308	1	BRG\FLG\CAST\1-1/2\2BOLT
2	2000310	1	BRG\FLG\CAST\1\2BOLT
3	3800043	2	FTG\LUB\1/8MPXZRK\SHORT
4	3800102	2	FTG\1/8FP\CPLG\LW
5	3800283	1	FTG\LUB\1/4NFX1/8FP\ADPT
6	3900010	1	MTR\HYD\24\2000\SAE;A
7	3900020	1	MTR\HYD\11.9\2000\SAE;A;
8	4502201	1	AUGER\FLIGHTING\WELD
9	4502204	1	SH\SPOUT\AUGER
10	4502213	2	BRKT\MNT\AUGER\PIVOT
11	4502234	1	HPPR\AUGER\LOADING
12	4502236	1	AUGER\HPPR
13	4502244	1	TUBE\AUGER\GRINDER
14	4502245	1	SH\CAP\TUBE\AUGER
15	4502387	4	BRKT\HOLDDOWN\SCRN\GP-50
16	4502388	1	SCRN\INTAKE\AUGER
17	4502389	2	DBLR\BELT\HPPR\AUGER
18	4502390	2	NIPPLE\PIPE\1/8X4-1/4
19	4502552	4	DBLR\BELT\HPPR\AUGER
20	4502555	1	BELT\HPPR\AUGER
21	4502556	2	DBLR\BELT\HPPR\AUGER
22	4800003	30	BOLT\HEX\3/8X1
23	4800053	28	BOLT\CRG\3/8X1\NC
24	4800061	2	BOLT\CRG\1/2X1-1/2\NC
25	4800178	4	BOLT\HEX\1/2X1-3/4
26	4800474	2	BOLT\CRG\5/16X1-1/4\NC
27	4900001	6	NUT\HEX\1/2\NC
28	4900002	58	NUT\HEX\3/8\NC
29	4900003	2	NUT\HEX\5/16\NC
30	5000001	16	WASH\FLAT\3/8
31	5000006	6	WASH\LOCK\1/2
32	5000019	58	WASH\LOCK\3/8
33	5000022	2	WASH\LOCK\5/16
34	7501337	4	CLMP\HOSE\CUSH\3/8
	4502200		AUGER\ASSY\SUB\GP50



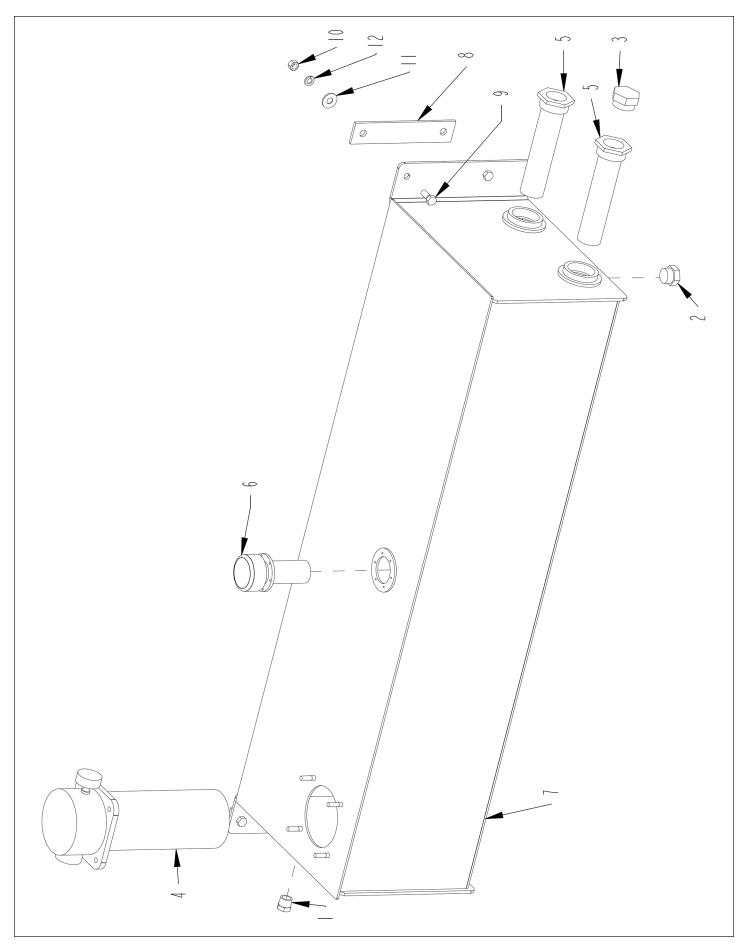
# SMALL HOPPER ASSEMBLY

ITEM	PART	QTY.	PART DESCRIPTION
1	1700248	1	BELT\1/4X12X54-3/4\2PLY (S.N. 0102 & UP)
1A	4502553	1	BELT\3/8X12X54-3/4\3PLY (THRU S.N. 0101)
2	1700249	2	SEAL\SCREEN (S.N. 0102 & UP)
3	4502183	1	PLTFRM\HOPPER\AUGER (INCLUDES 4502229, 4502246, 4502652, 1700248, 1700249)
4	4502229	1	HPPR\GRAIN\SUBWELD
5	4502246	1	BRKT\SPPT\BELT\CONV
6	4502561	1	BMPR\AUGER
7	4502562	1	BRKT\BUMPR\AUGER
8	4502563	1	HOOK\AUGER
9	4502652	1	CHAN\HPPR\SMALL
10	4800003	3	BOLT\HEX\3/8X1
11	4800034	2	BOLT\HEX\3/8X1-1/2
12	4800053	9	BOLT\CRG\3/8X1\NC
13	4800098	14	BOLT\HEX\3/8X1-1/4\NC
14	4800508	2	BOLT\HEX\5/16X5/8\NC
15	4801198	4	SCR\LAG\3/8X1-1/2
16	4900002	28	NUT\HEX\3/8\NC
17	4900003	2	NUT\HEX\5/16\NC
18	5000001	21	WASH\FLAT\3/8
19	5000019	28	WASH\LOCK\3/8
20	5000022	2	WASH\LOCK\5/16
21	5000109	14	WASH\FLAT\FNDR\13/32\1-1/2\18GA(0.048)



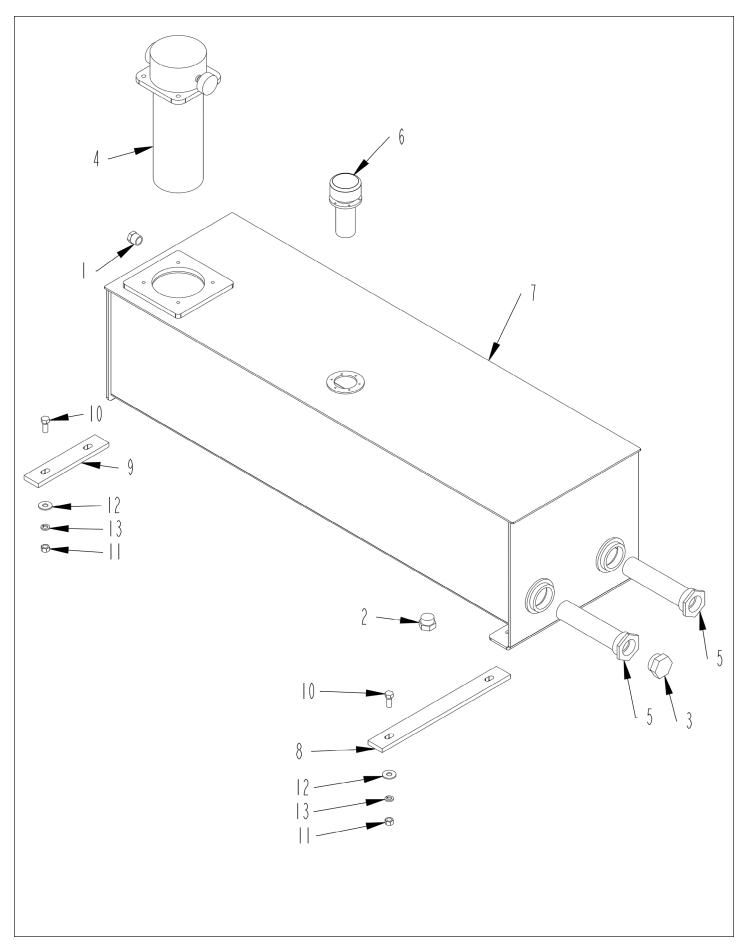
# LARGE HOPPER ASSEMBLY

ITEM	PART	QTY.	PART DESCRIPTION
1	1700249	2	SEAL\SCREEN (S.N. 0102 & UP)
2	4502193	1	SLIDE\HPPR\CHOKE
3	4502194	1	PL\CHOKE\HPPR
4	4502195	1	ASSY\CRANK\CHOKE\HPPR
5	4502197	1	PLTFRM\HPPR\WELD
6	4502367	1	SIDE\HPPR\FLIP
7	4800003	2	BOLT\HEX\3/8X1
8	4800098	14	BOLT\HEX\3/8X1-1/4\NC
9	4800164	4	BOLT\HEX\3/8X3/4
10	4900002	14	NUT\HEX\3/8\NC
11	4900023	4	NUT\TPLCK\3/8\NC
12	5000001	14	WASH\FLAT\3/8
13	5000019	14	WASH\LOCK\3/8
14	5000109	14	WASH\FLAT\FNDR\13/32\1-1/2\18GA(0.048)
	4502198		PLTFRM\GRDR\HPPR\ASSY



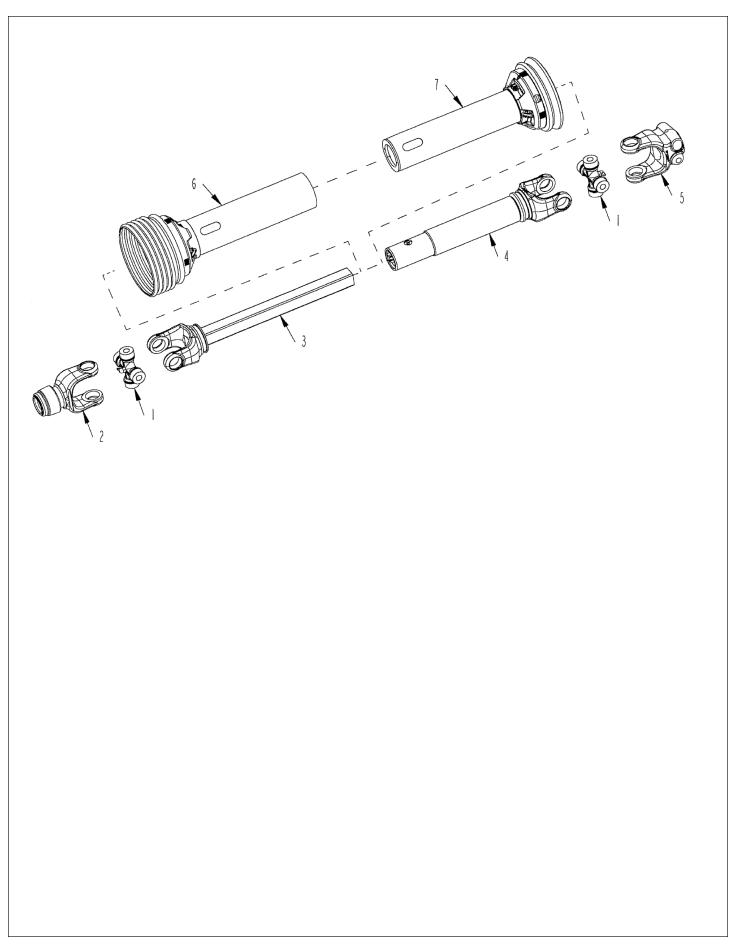
# OIL TANK ASSEMBLY THRU S.N. 0101

ITEM	PART	QTY.	PART DESCRIPTION
1	3800137	1	FTG\3/4MP\SIGHT:GLASS
2	3800301	1	FTG\1-5/16MOR\PLUG\HEX
3	3800854	1	FTG\1-7/8MOR\PLUG\HEX (used with no auger option)
4	4400043	1	FILTER\HYDRAULIC\RETURN\IN-TANK ELEMENT 4400074
	4400074	1	REPLACEMENT FILTER
5	4400067	2	FLTR\SCRN\2-1/2MORX1-7/8FOR\30GPM\ST30-100-RV3
6	4400071	1	VENT\W/LOCK\CAP\HYD
7	4502221	1	TANK\OIL\GRNDR
8	4502375	2	BELT\ISLTR\TANK\OIL
9	4800018	4	BOLT\HEX\1/2X1-1/4
10	4900001	4	NUT\HEX\1/2\NC
11	5000004	4	WASH\FLAT\1/2
12	5000006	4	WASH\LOCK\1/2
	450000		TANKON ACCIONADE TUDIA A LACA
	4502280		TANK\OIL\ASSY\GP50 THRU S.N. 0101



# OIL TANK ASSEMBLY S.N. 0102 & UP

ITEM	PART	QTY.	PART DESCRIPTION
1	3800137	1	FTG\3/4MP\SIGHT:GLASS
2	3800301	1	FTG\1-5/16MOR\PLUG\HEX
3	3800854	1	FTG\1-7/8MOR\PLUG\HEX (used with no auger option)
4	4400043	1	FILTER\HYDRAULIC\RETURN\IN-TANK
	4400074	1	REPLACEMENT FILTER
5	4400067	2	FLTR\SCRN\2-1/2MORX1-7/8FOR\30G
6	4400071	1	VENT\W/LOCK\CAP\HYD
7	4501968	1	TANK\BOTTOM-MNT\GP-50
8	4501969	1	BELT\CUSH\TANK
9	4501970	1	BELT\CUSH\TANK
10	4800018	4	BOLT\HEX\1/2X1-1/4
11	4900001	4	NUT\HEX\1/2\NC
12	5000004	4	WASH\FLAT\1/2
13	5000006	4	WASH\LOCK\1/2
	4502823		TANK\OIL\ASSY\GP50 S.N. 0102 & UP

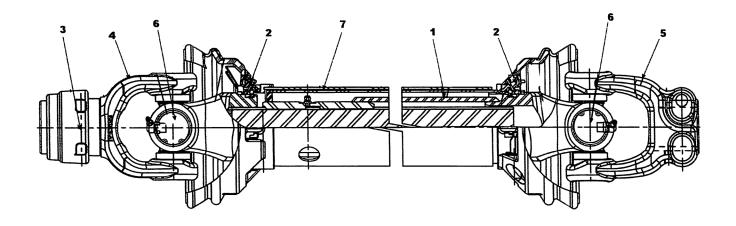


# P.T.O. ASSEMBLY (WITH PLASTIC GUARDS) (THRU S.N. 0101)

ITEM	PART	QTY.	PART DESCRIPTION
1	3600013	2	CROSS & BEARING KIT 55W
2	3600535	1	YOKE ASSY\55W\1-3/8\21-SP
	3600271		LOCK\SAFTY;SLID\KIT\1-3/8
2A	3600536	1	YOKE\55\QD\CLR\1-3/4\20SP
	3600532		LOCK\SAFTY;SLID\KIT\1-3/4
1,2,3 & 6	3600482	1	JOINT&SHAFT\ASM\1-3/8"\W-GRD SET FOR\3600479 ( TRACTOR )
1,2A,3 & 6	3600487	1	JOINT&SHAFT\ASM\1-3/4"\W-GRD SET FOR\3600484 ( TRACTOR )
1,4,5, & 7	3600488	1	JOINT&TUBE\ASM\W-GRD SET FOR 3600479, 484 ( MACHINE)
5	3600012	1	MACHINE YOKE 1-3/4" L55 W/KEYWAY
6,7	3600480	1	GUARD\SET\PTO
Not Shown	6500085	1	DECAL\DNGR\ROTATNG;DR-LNE
Not Shown	6500310	1	DECAL\DNGR\GUARD;MISSING
Not Shown	3600489	2	NYLON\REPAIR\KIT\PLASTIC

Note: 3600482 and 3600487 are the drivelines for this grinder.

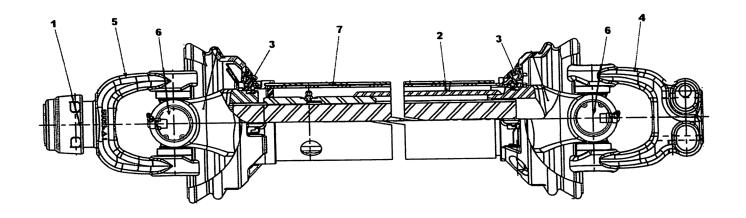
# P.T.O. ASSEMBLY 3600562 (S.N. 0102 & UP)

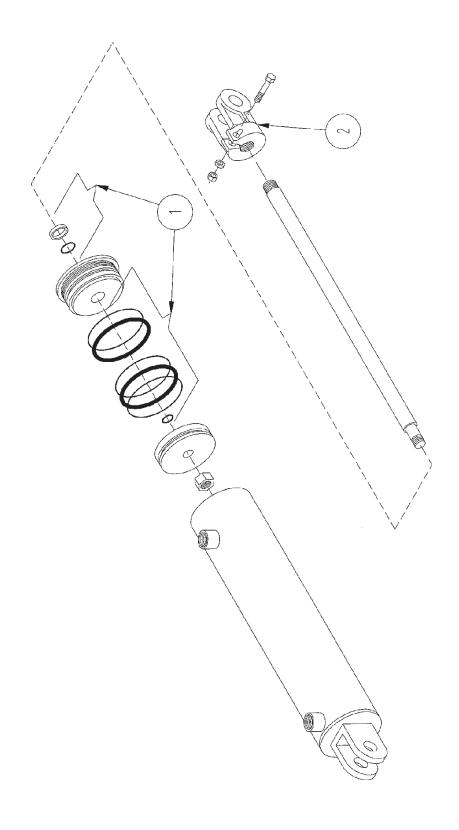


ITEM	PART	QTY.	PART DESCRIPTION
	3600562		PTO\COMP\55E\1-3/4SP\1-3/4>CAT7\272-22911
1	3600282	1	SAFETY SIGN
2	3600489	2	KIT\REP\NYLON\PLSTC;SHLD
3	3600775	1	LOCK\SAFTY;SLD\KIT\1-3/4\77E
4	3600801	1	JNT&SHFT\ASM\1-3/4SP\W-GRD TRACTOR\93-22911
5	3600802	1	JNT&TUBE\ASM\W-GRD MACHINE\92-22911
6	3600820	2	CROSS & BEARING KIT\55E
7	6500085	1	DECAL\DNGR\ROTATNG;DR-LNE
	3600480	1	GUARD\SET\PTO

# P.T.O. ASSEMBLY 3600816 (S.N. 0102 & UP)

ITEM	PART	QTY.	PART DESCRIPTION
	3600816		PTO\COMP\55E\1-3/8SP\W-GRD CAT7\272-26452
1	3600271	1	LOCK\SAFTY;SLID\KIT\1-3/8
2	3600282	1	SAFETY SIGN
3	3600489	2	KIT\REP\NYLON\PLSTC;SHLD
4	3600802	1	JNT&TUBE\ASM\W-GRD MACHINE\92-22911
5	3600815	1	JNT&SHFT\ASM\1-3/8SP\W-GRD TRACTOR\93-26452
6	3600820	2	CROSS & BEARING KIT\55E
7	6500085	1	DECAL\DNGR\ROTATNG;DR-LNE
	3600480	1	GUARD\SET\PTO

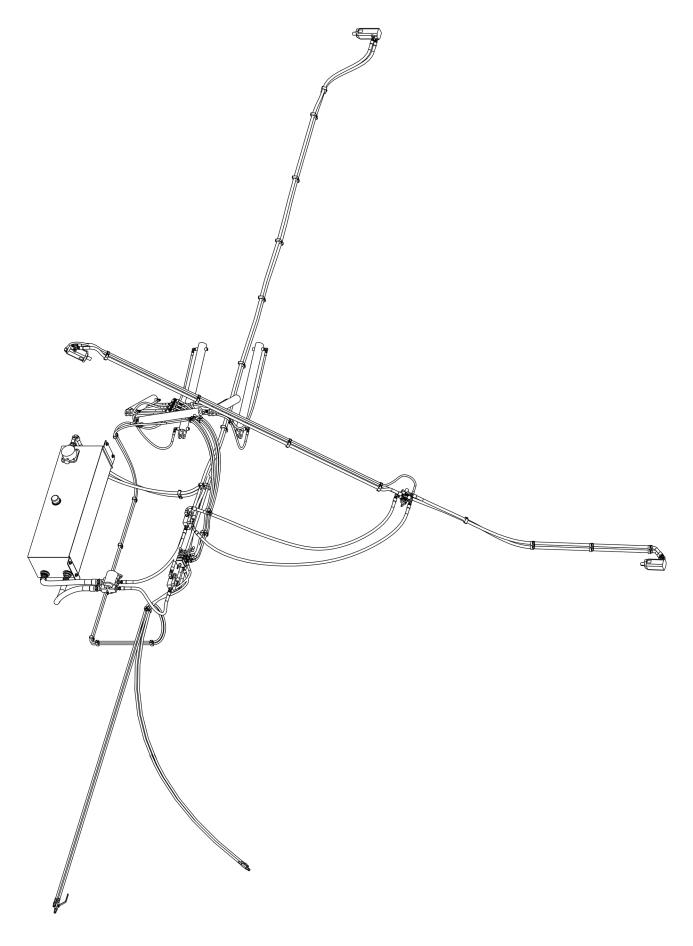




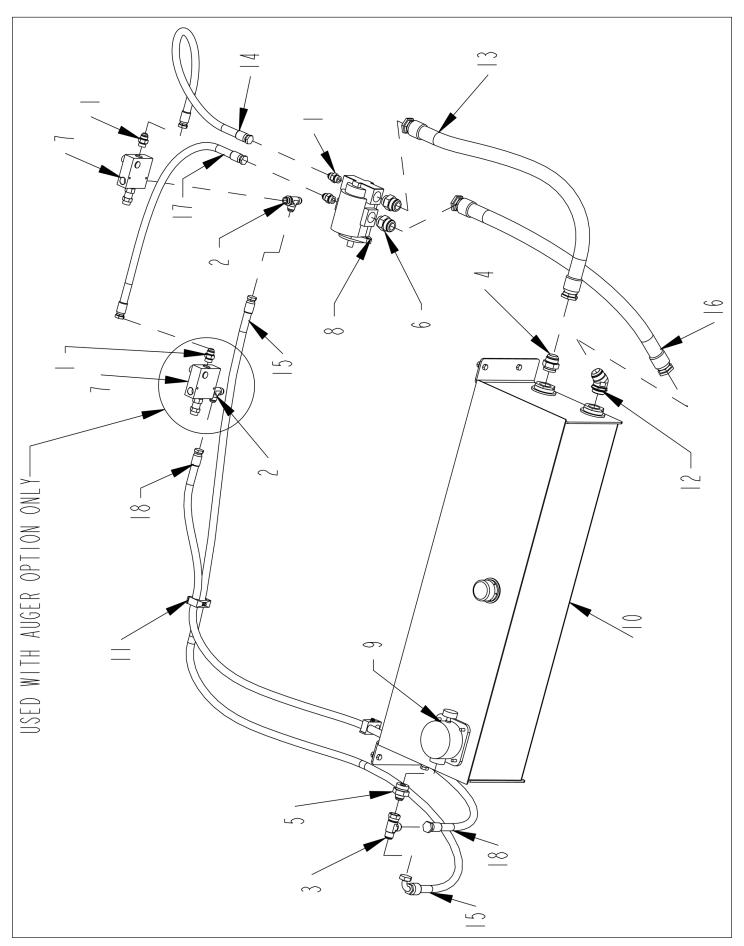
# HYDRAULIC CYLINDER SEALS AND OTHER ITEMS

ITEM	PART NO QTY.	PART DESCRIPTION	
1 2	4100175 2 4100143 4100128	CYL\HYD\3X36\PARALLEL\ CYL\HYD\SEAL;KIT\3X24\> YOKE ON 1.5" RAM 3" CYL	
ITEM	PART NO. QTY.	PART DESCRIPTION	
	4100203 1	CYL\HYD\3X24\1-1/2ROD\>	

ITEM	PART NO. QTY.	PART DESCRIPTION
	4100261 2	CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE
	4100289	SEAL KIT
	4100328	CYL\HYD\3X20\1-1/2ROD -RAM INDUSTRIES
	4100143	SEAL KIT

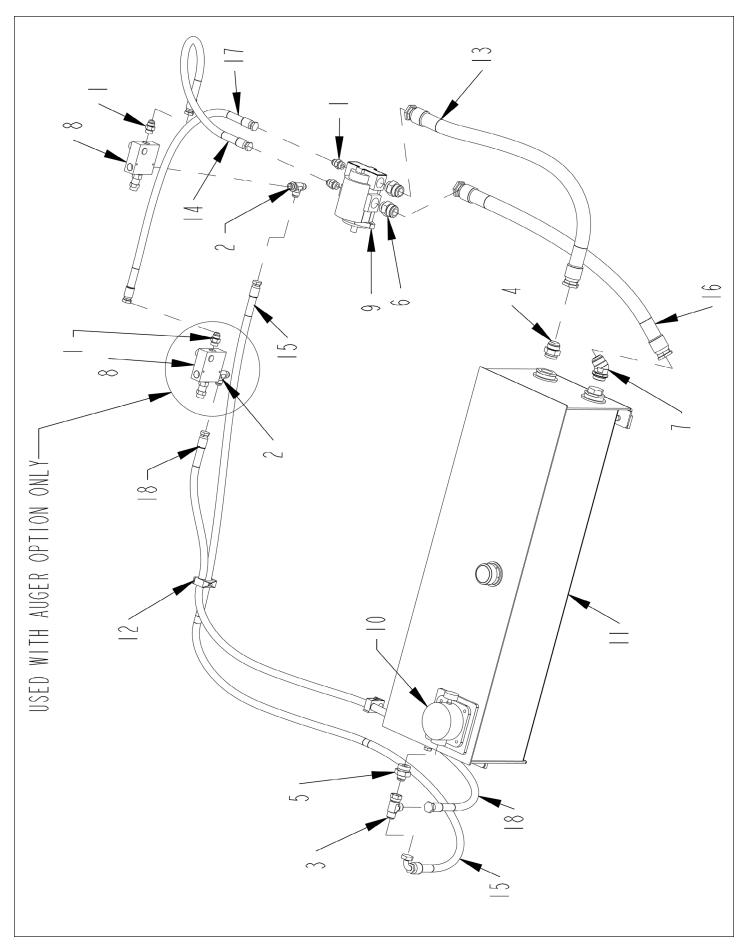






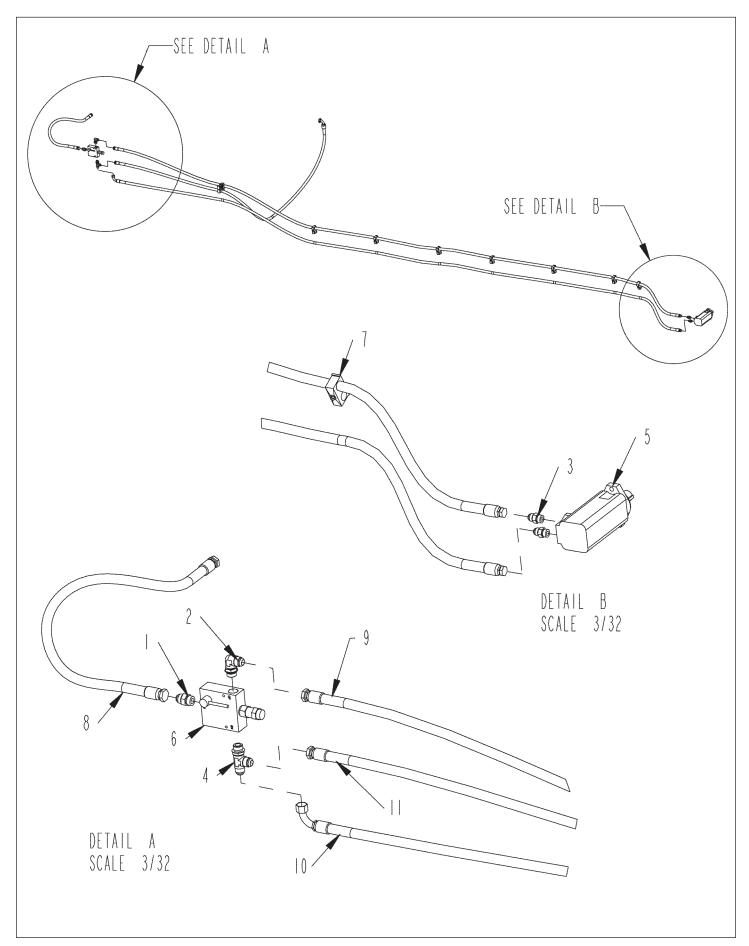
# HYDRAULIC TANK AND TANDEM PUMP THRU S.N. 0101

ITEM	PART	QTY.	PART DESCRIPTION
1	3800277	4	FTG\1-1/16MORX1-1/16MJIC\ST
2	3800463	2	FTG\1-1/16MORX1-1/16MJICX1-1/16MJIC\RUN;TEE
3	3800497	1	FTG\1-5/16FJICX1-5/16MJICX1-5/16MJIC\RUN;TEE
			(used with auger option only)
4	3800746	1	FTG\1-7/8MORX1-7/8MJIC\ST
5	3800801	1	FTG\1-7/8MORX1-5/16MJIC\ST
6	3800836	2	FTG\1-5/8MORX1-7/8MJIC\ST
7	4000424	2	VLV\HYD\CNRL\FLOW\#12 PORT
8	4200111	1	PUMP\HYD\2.33x1.78\RH (used with auger option only) (DOUBLE)
8a	4200141	1	PUMP\HYD\2.33\RH\7/8SPLINE (SINGLE)
9	4400043	1	FILTER\HYDRAULIC\RETURN\IN-TANK ELEMENT 4400074
9a	4400074		FLTR\ELMT\10MIC\INTANK (REPLACEMENT)
10	4502221	1	TANK\OIL\GP50
11	7501337	2	CLMP\HOSE\CUSH\3/4
12	3800907	1	FTG\1-7/8MOR\1-7/8MJIC\45
			(used with auger option only)
13	3701037	1	HOSE\HYD\1-1/2X46\1-7/8FJICX1-7/8FJIC
			HIGH VOLUME SUCTION PORT OF PUMP TO INNER TANK PORT
4.4	0704000	4	HOOF HIVE 10 10 10 10 10 10 10 10 10 10 10 10 10
14	3701038	1	HOSE\HYD\3/4X22\1-1/16FJC90X1-1/16FJC
			HIGH VOLUME PRESSURE PORT OF PUMP TO IN PORT CONVEYOR FLOW CONTROL
			CONTROL
15	3701039	1	HOSE\HYD\3/4X156\1-5/16FJC90X1-1/16FJC
		•	EX PORT CONVEYOR FLOW CONTROL TO FILTER IN HYDRAULIC TANK
16	3701048	1	HOSE\HYD\1-1/2X48\1-7/8FJICX1-7/8FJIC
			LOW VOLUME SUCTION PORT TO OUTSIDE PORT OF TANK
			(used with auger option only)
17	3701049	1	HOSE\HYD\3/4X55\1-1/16FJCX1-1/16FJC
			LOW VOLUME PRESSURE PORT OF PUMP TO IN PORT AUGER FLOW
			CONTROL
			(used with auger option only)
18	3701052	1	HOSE\HYD\3/4X123\1-5/16FJCX1-1/16FJC
			EX PORT AUGER FLOW CONTROL TO FILTER IN TANK
			(used with auger option only)



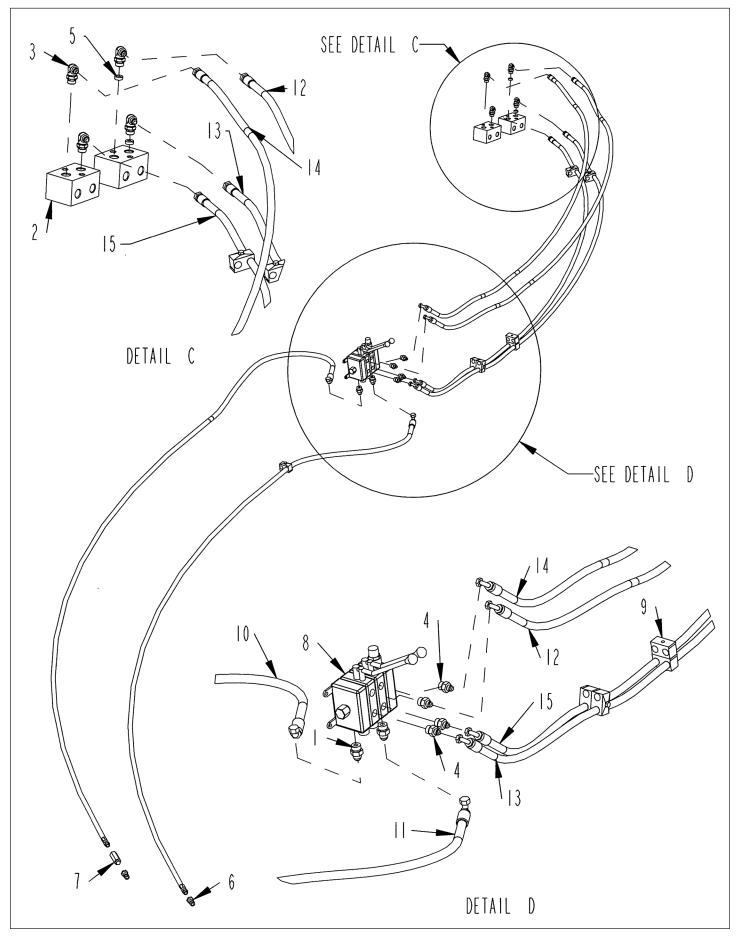
### HYDRAULIC TANK AND TANDEM PUMP S.N. 0102 & UP

ITEM	PART	QTY.	PART DESCRIPTION
1	3800277	4	FTG\1-1/16MORX1-1/16MJIC\ST
2	3800463	2	FTG\1-1/16MORX1-1/16MJICX1-1/16
3	3800497	1	FTG\1-5/16FJICX1-5/16MJICX1-5/1
			(used with auger option only)
4	3800746	1	FTG\1-7/8MORX1-7/8MJIC\ST
5	3800801	1	FTG\1-7/8MORX1-5/16MJIC\ST
6	3800836	2	FTG\1-5/8MORX1-7/8MJIC\ST
7	3800907	1	FTG\1-7/8MOR\1-7/8MJIC\45
			(used with auger option only)
8	4000424	2	VLV\HYD\CNRL\FLOW\#12 PORT
9	4200111	1	PUMP\HYD\2.33x1.78\RH
			(used with auger option only)
10	4400043	1	FILTER\HYDRAULIC\RETURN\IN-TANK
11	4501968	1	TANK\BOTTOM-MNT\GP-50
12	7501337	2	CLMP\HOSE\CUSH\3/8
13	3701037	1	HOSE\HYD\1-1/2X46\1-7/8FJICX1-7/8FJIC
			HIGH VOLUME SUCTION PORT OF PUMP TO INNER TANK PORT
14	3701038	1	HOSE\HYD\3/4X22\1-1/16FJC90X1-1/16FJC
			HIGH VOLUME PRESSURE PORT OF PUMP TO IN PORT CONVEYOR FLOW
			CONTROL
15	3701039	1	HOSE\HYD\3/4X156\1-5/16FJC90X1-1/16FJC
			EX PORT CONVEYOR FLOW CONTROL TO FILTER IN HYDRAULIC TANK
16	3701048	1	HOSE\HYD\1-1/2X48\1-7/8FJICX1-7/8FJIC
			LOW VOLUME SUCTION PORT TO OUTSIDE PORT OF TANK
			(used with auger option only)
17	3701049	1	HOSE\HYD\3/4X55\1-1/16FJCX1-1/16FJC
			LOW VOLUME PRESSURE PORT OF PUMP TO IN PORT AUGER
			FLOW CONTROL
			(used with auger option only)
18	3701052	1	HOSE\HYD\3/4X123\1-5/16FJCX1-1/16FJC
			EX PORT AUGER FLOW CONTROL TO FILTER IN TANK
			(used with auger option only)



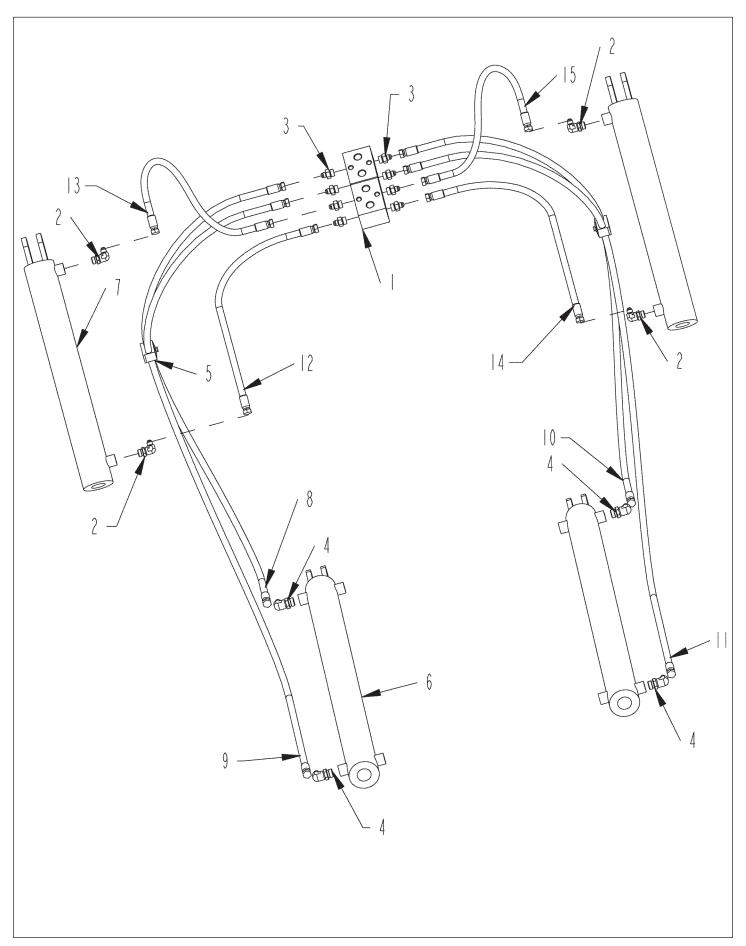
# CONVEYOR FLOW CONTROL AND ORBIT MOTOR

ITEM	PART	QTY.	PART DESCRIPTION
1	3800277	1	FTG\1-1/16MORX1-1/16MJIC\ST
2	3800279	1	FTG\1-1/16MORX1-1/16MJIC\90
3	3800448	2	FTG\7/8MORX7/8MJIC\ST
4	3800463	1	FTG\1-1/16MORX1-1/16MJICX1-1/16MJIC\RUN;TEE
5	3900010	1	MTR\HYD\24\2000\SAE;A
6	4000424	1	VLV\HYD\CNRL\FLOW\#12 PORT
7	7501337	9	CLMP\HOSE\CUSH\3/4
8	3701038	1	HOSE\HYD\3/4X22\1-1/16FJC90X1-1/16FJC HIGH VOLUME PRESSURE PORT OF PUMP TO IN PORT CNVYR FLOW CONTROL
9	3701012	1	HOSE\HYD\3/4X327\1-1/16FJCX7/8FJC CF PORT CONVEYOR FLOW CONTROL TO UPPER/INSIDE PORT CONVEYOR ORBIT MOTOR
10	3701013	1	HOSE\HYD\3/4X322\1-1/16FJC90X7/8FJC EX PORT CONVEYOR FLOW CONTROL TO LOWER /OUTSIDE PORT CONVEYOR ORBIT MOTOR
11	3701039	1	HOSE\HYD\3/4X156\1-5/16FJC90X1-1/16FJC EX PORT CONVEYOR FLOW CONTROL TO FILTER IN HYDRAULIC TANK



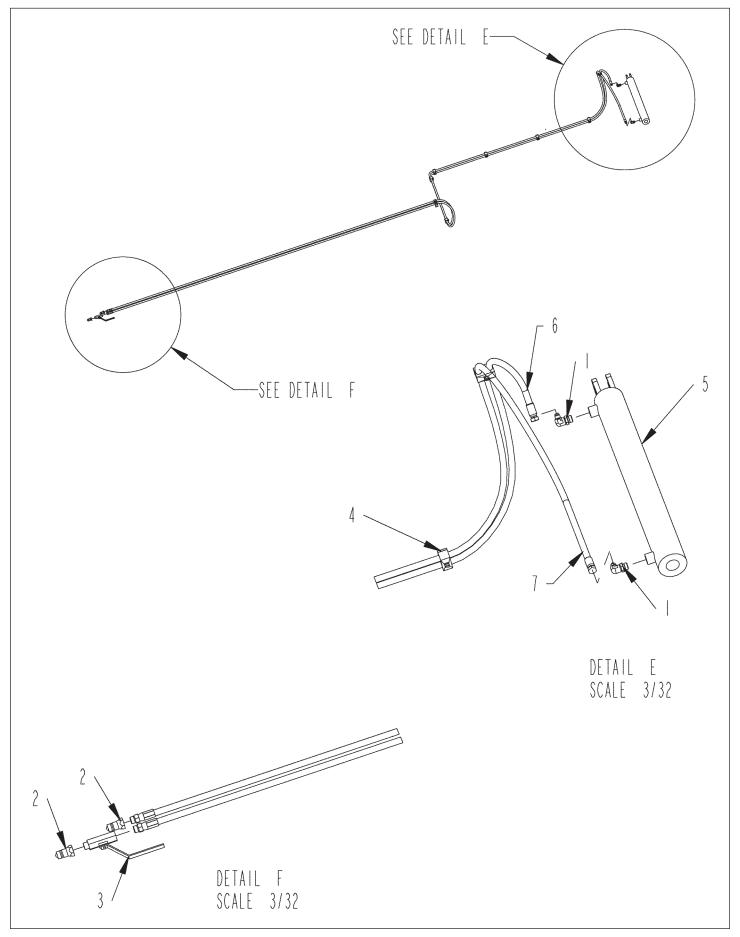
# HYDRAULIC VALVE TO DIVIDER BLOCK

ITEM	PART	QTY.	PART DESCRIPTION
1	3800328	2	FTG\7/8MORX3/4MJIC\ADPT
2	3800428	2	MNFLD\DBL;TEE\BLK\3/4FOR
3	3800453	4	FTG\3/4MORX9/16MJIC\90
4	3800530	4	FTG\3/4MORX9/16MJIC\ST
5	3800683	2	FTG\3/4MOR\ORIFICE\0.049"
6	3800694	2	FTG\3/4FOR\QUICK;CPLR\MALE
7	3800903	1	FTG\HYD\3/4MORX3/4FOR\CHK
8	4000423	1	VLV\HYD\2BANK
9	7501336	7	CLMP\HOSE\CUSH\3/8
10	3701040	1	HOSE\HYD\3/8X99\3/4MORX9/16FJICS CONVEYOR LIFT AND FOLD VALVE TO TRACTOR
11	3701041	1	HOSE\HYD\3/8X104\3/4MORX9/16FJICS CONVEYOR LIFT AND FOLD VALVE TO TRACTOR
12	3701042	1	HOSE\HYD\3/8X99\3/4FJC90X9/16FJC WORK PORT LIFT TO REAR DIVIDER BLOCK TOP
13	3701042	1	HOSE\HYD\3/8X99\3/4FJC90X9/16FJC WORK PORT LIFT TO REAR DIVIDER BLOCK TOP
14	3701042	1	HOSE\HYD\3/8X99\3/4FJC90X9/16FJC WORK PORT FOLD TO FRONT DIVIDER BLOCK TOP
15	3701042	1	HOSE\HYD\3/8X99\3/4FJC90X9/16FJC WORK PORT FOLD TO FRONT DIVIDER BLOCK TOP



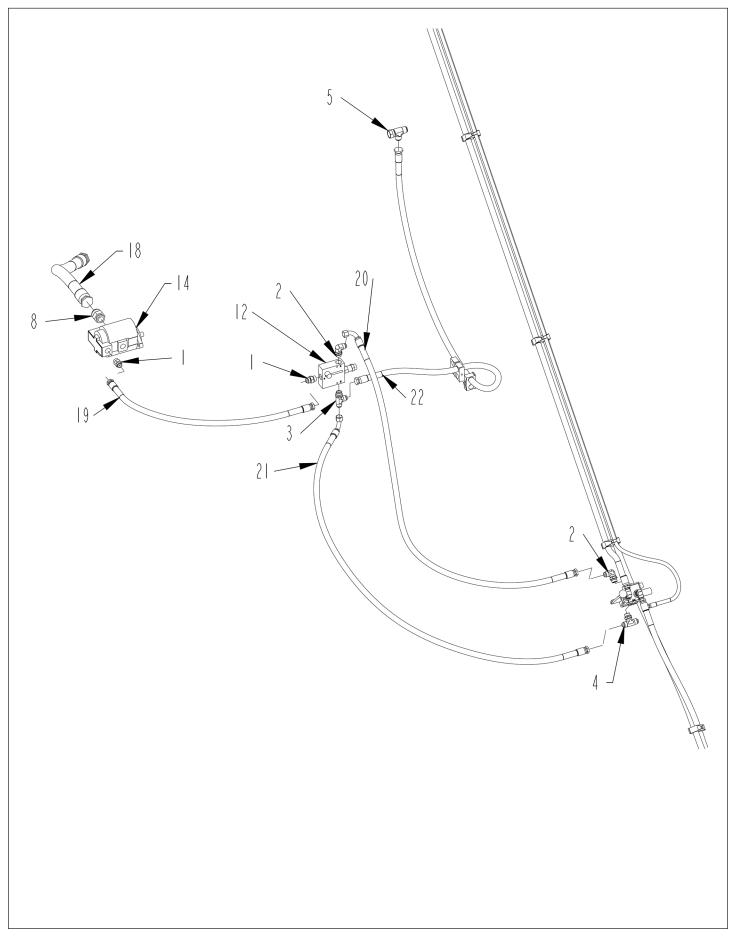
# LIFT AND FOLD HYDRAULICS

ITEM	PART	QTY.	PART DESCRIPTION
1	3800428	2	MNFLD\DBL;TEE\BLK\3/4FOR
2	3800453	4	FTG\3/4MORX9/16MJIC\90
3	3800530	8	FTG\3/4MORX9/16MJIC\ST
4	3800538	4	FTG\7/8MORX9/16MJIC\90
5	7501336	2	CLMP\HOSE\CUSH\3/8
6	4100175	2	CYL\HYD\3X36\PARALLEL
7	4100261	2	CYL\HYD\3X20\1-1/2ROD -CANADIAN TOOL & DIE
7A	4100328		CYL\HYD\3X20\1-1/2ROD -RAM INDUSTRIES
8	3701043	1	HOSE\HYD\3/8X58\9/16FJICS
			CAP END FOLD CYLINDER TO DIVIDER BLOCK
9	3701044	1	HOSE\HYD\3/8X96\9/16FJICS
			ROD END FOLD CYLINDER TO DIVIDER BLOCK
10	3701043	1	HOSE\HYD\3/8X58\9/16FJICS
			CAP END FOLD CYLINDER TO DIVIDER BLOCK
11	3701044	1	HOSE\HYD\3/8X96\9/16FJICS
			ROD END FOLD CYLINDER TO DIVIDER BLOCK
12	3701045	1	HOSE\HYD\3/8X43\9/16FJICS
			ROD END LIFT CYLINDER TO DIVIDER BLOCK
13	3700915	1	HOSE\HYD\3/8X22\9/16FJICS
			CAP END LIFT CYLINDER TO DIVIDER BLOCK
14	3701045	1	HOSE\HYD\3/8X43\9/16FJICS
			ROD END LIFT CYLINDER TO DIVIDER BLOCK
15	3700915	1	HOSE\HYD\3/8X22\9/16FJICS
			CAP END LIFT CYLINDER TO DIVIDER BLOCK



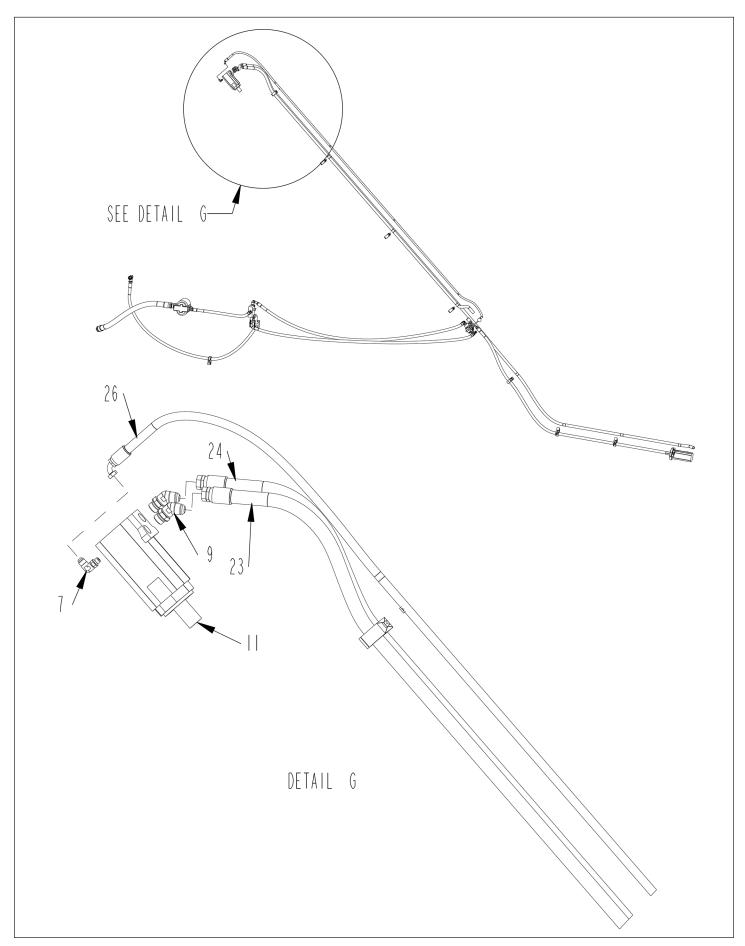
# HOPPER TILT HYDRAULICS

ITEM	PART	QTY.	PART DESCRIPTION
1	3800453	2	FTG\3/4MORX9/16MJIC\90
2	3800694	2	FTG\3/4FOR\QUICK;CPLR\MALE
3	3800906	1	VALVE\BALL\\3/4FOR\1/4 TURN
4	7501336	9	CLMP\HOSE\CUSH\3/8
5	4100203	1	CYL\HYD\3X24\1-1/2ROD
6	3701450	1	HOSE\HYD\3/8X261\3/4MORX9/16FJICS CAP END HOPPER TILT CYLINDER TO TRACTOR
7	3701451	1	HOSE\HYD\3/8X287\3/4MORX9/16FJICS ROD END HOPPER TILT CYLINDER TO TRACTOR



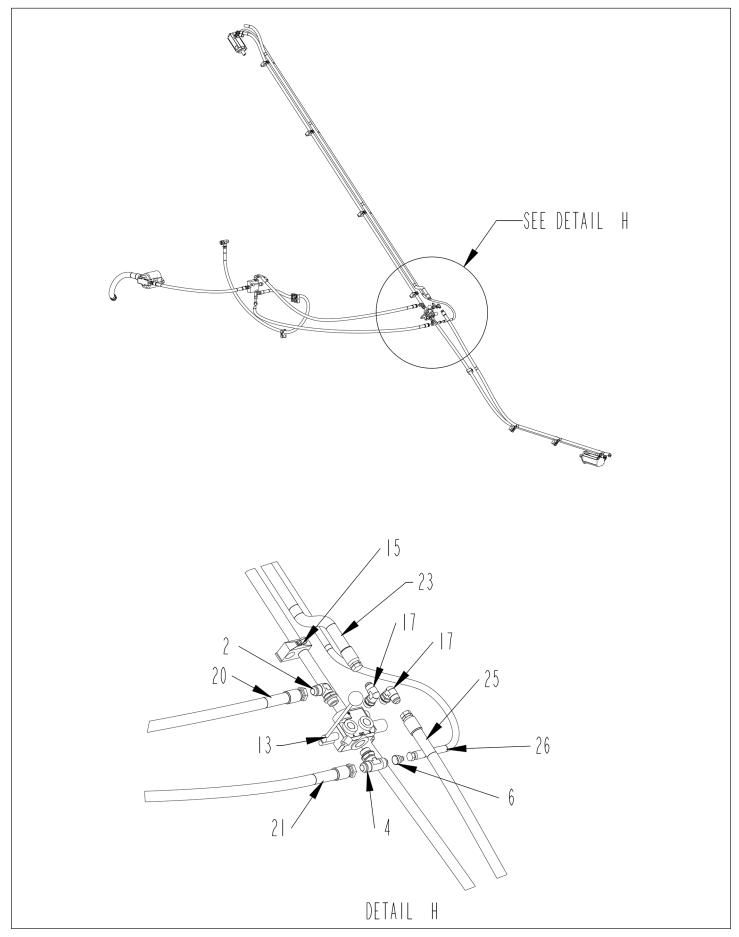
# AUGER FLOW CONTROL AND TANDEM PUMP

ITEM	PART	QTY.	PART DESCRIPTION
1	3800277	2	FTG\1-1/16MORX1-1/16MJIC\ST
2	3800279	2	FTG\1-1/16MORX1-1/16MJIC\90
3	3800463	1	FTG\1-1/16MORX1-1/16MJICX1-1/16MJIC\RUN;TEE
4	3800481	1	FTG\1-1/16MJICX1-1/16MJICX1-1/16MOR\BR;TEE
5	3800497	1	FTG\1-5/16FJICX1-5/16MJICX1-5/16MJIC\RUN;TEE
6	3800542	1	FTG\1-1/16FJICX9/16MJIC\ADPT
7	3800762	1	FTG\7/16MORX9/16MJIC\90
8	3800836	1	FTG\1-5/8MORX1-7/8MJIC\ST
9	3800915	4	FTG\7/8MORX7/8MJIC\45
10	3900020	1	MTR\HYD\11.9\2000\SAE;A; (THRU S.N. 0086)
10A	3900010		MTR\HYD\24\2000\SAE;A (S.N. 0087 AND UP)
11	3900020	1	MTR\HYD\11.9\2000\SAE;A;
12	4000424	1	VLV\HYD\CNRL\FLOW\#12 PORT
13	4000425	1	VLV\HYD\3POS\1DET\SPG-CNTR
14	4200111	1	PUMP\HYD\2.33x1.78\RH
15	5700052	4	WIRE CLIP
16	7501337	11	CLMP\HOSE\CUSH\3/4
17	3800911	2	FTG\7/8MORX7/8MJIC\90
18	3701048	1	HOSE\HYD\1-1/2X48\1-7/8FJICX1-7/8FJIC LOW VOLUME SUCTION PORT OF PUMP TO OUTSIDE PORT OF TANK
19	3701049	1	HOSE\HYD\3/4X55\1-1/16FJCX1-1/16FJC LOW VOLUME PRESSURE PORT OF PUMP TO IN PORT AUGER FLOW CONTROL
20	3701050	1	HOSE\HYD\3/4X127\1-1/16FJC90X1-1/16FJC CF PORT AUGER FLOW CONTROL TO IN PORT AUGER VALVE
21	3701051	1	HOSE\HYD\3/4X115\1-1/16FJC90X1-1/16FJC
			EX PORT AUGER FLOW CONTROL TO OUT PORT AUGER VALVE
22	3701052	1	HOSE\HYD\3/4X123\1-5/16FJCX1-1/16FJC EX PORT AUGER FLOW CONTROL TO FILTER IN TANK
23	3701053	1	HOSE\HYD\3/4X151\7/8FJCX7/8FJC PORT A AUGER FLOW CONTROL TO TOP AUGER ORBIT MOTOR IN
24	3701054	1	HOSE\HYD\3/4X271\7/8FJCX7/8FJC OUT PORT TOP AUGER ORBIT MOTOR TO INPORT LOWER ORBIT MOTOR
25	3701055	1	HOSE\HYD\3/4X118\7/8FJCX7/8FJC OUT PORT LOWER AUGER ORBIT MOTOR TO PORT B AUGER VALVE
26	3701056	1	HOSE\HYD\3/8X162\9/16FJCX9/16FJC90 CASE DRAIN TOP AUGER ORBIT MOTOR TO TEE ON OUT PORT AUGER VALVE



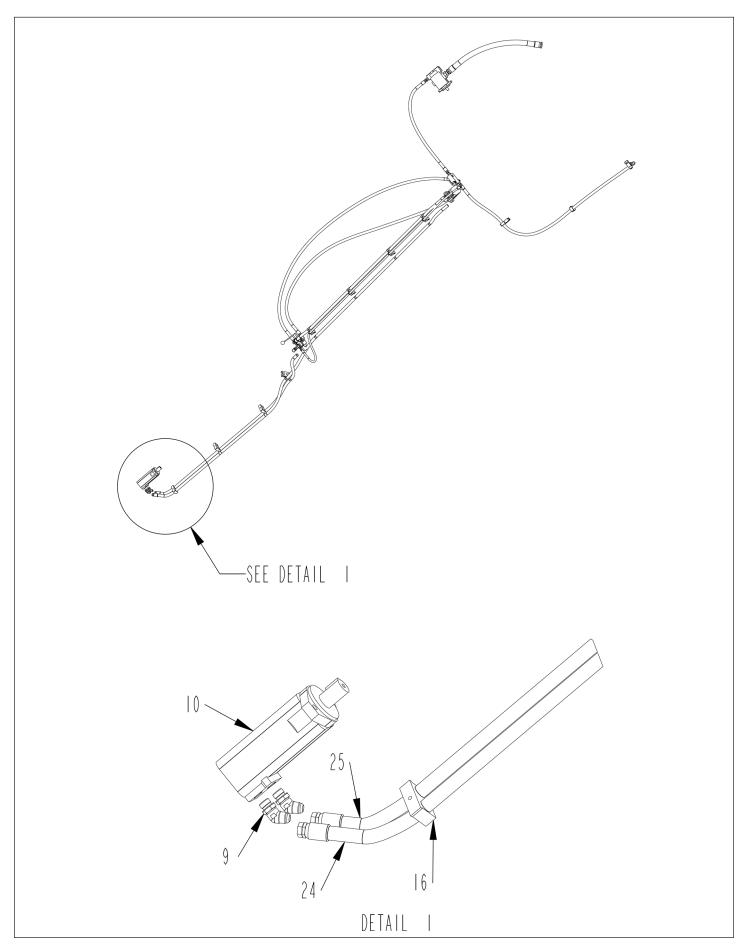
# AUGER ORBIT MOTOR TOP

ITEM	PART	QTY.	PART DESCRIPTION
1	3800277	2	FTG\1-1/16MORX1-1/16MJIC\ST
2	3800279	2	FTG\1-1/16MORX1-1/16MJIC\90
3	3800463	1	FTG\1-1/16MORX1-1/16MJICX1-1/16MJIC\RUN;TEE
4	3800481	1	FTG\1-1/16MJICX1-1/16MJICX1-1/16MOR\BR;TEE
5	3800497	1	FTG\1-5/16FJICX1-5/16MJICX1-5/16MJIC\RUN;TEE
6	3800542	1	FTG\1-1/16FJICX9/16MJIC\ADPT
7	3800762	1	FTG\7/16MORX9/16MJIC\90
8	3800836	1	FTG\1-5/8MORX1-7/8MJIC\ST
9	3800915	4	FTG\7/8MORX7/8MJIC\45
10	3900020	1	MTR\HYD\11.9\2000\SAE;A; (THRU S.N. 0086)
10A	3900010		MTR\HYD\24\2000\SAE;A (S.N. 0087 AND UP)
11	3900020	1	MTR\HYD\11.9\2000\SAE;A;
12	4000424	1	VLV\HYD\CNRL\FLOW\#12 PORT
13	4000425	1	VLV\HYD\3POS\1DET\SPG-CNTR
14	4200111	1	PUMP\HYD\2.33x1.78\RH
15	5700052	4	WIRE CLIP
16	7501337	11	CLMP\HOSE\CUSH\3/4
17	3800911	2	FTG\7/8MORX7/8MJIC\90
18	3701048	1	HOSE\HYD\1-1/2X48\1-7/8FJICX1-7/8FJIC
			LOW VOLUME SUCTION PORT OF PUMP TO OUTSIDE PORT OF TANK
19	3701049	1	HOSE\HYD\3/4X55\1-1/16FJCX1-1/16FJC
			LOW VOLUME PRESSURE PORT OF PUMP TO IN PORT AUGER FLOW CONTROL
20	3701050	1	HOSE\HYD\3/4X127\1-1/16FJC90X1-1/16FJC
20	3701050	I	CF PORT AUGER FLOW CONTROL TO IN PORT AUGER VALVE
			CF PORT AUGER FLOW CONTROL TO IN PORT AUGER VALVE
21	3701051	1	HOSE\HYD\3/4X115\1-1/16FJC90X1-1/16FJC
21	3701031	'	EX PORT AUGER FLOW CONTROL TO OUT PORT AUGER VALVE
			EXT ON AGGENTEON CONTROL TO GOTT ON AGGEN VALVE
22	3701052	1	HOSE\HYD\3/4X123\1-5/16FJCX1-1/16FJC
		-	EX PORT AUGER FLOW CONTROL TO FILTER IN TANK
			Extraction download for level with many
23	3701053	1	HOSE\HYD\3/4X151\7/8FJCX7/8FJC
			PORT A AUGER FLOW CONTROL TO TOP AUGER ORBIT MOTOR IN
24	3701054	1	HOSE\HYD\3/4X271\7/8FJCX7/8FJC
			OUT PORT TOP AUGER ORBIT MOTOR TO INPORT LOWER ORBIT MOTOR
25	3701055	1	HOSE\HYD\3/4X118\7/8FJCX7/8FJC
			OUT PORT LOWER AUGER ORBIT MOTOR TO PORT B AUGER VALVE
26	3701056	1	HOSE\HYD\3/8X162\9/16FJCX9/16FJC90
			CASE DRAIN TOP AUGER ORBIT MOTOR TO TEE ON OUT PORT AUGER VALVE



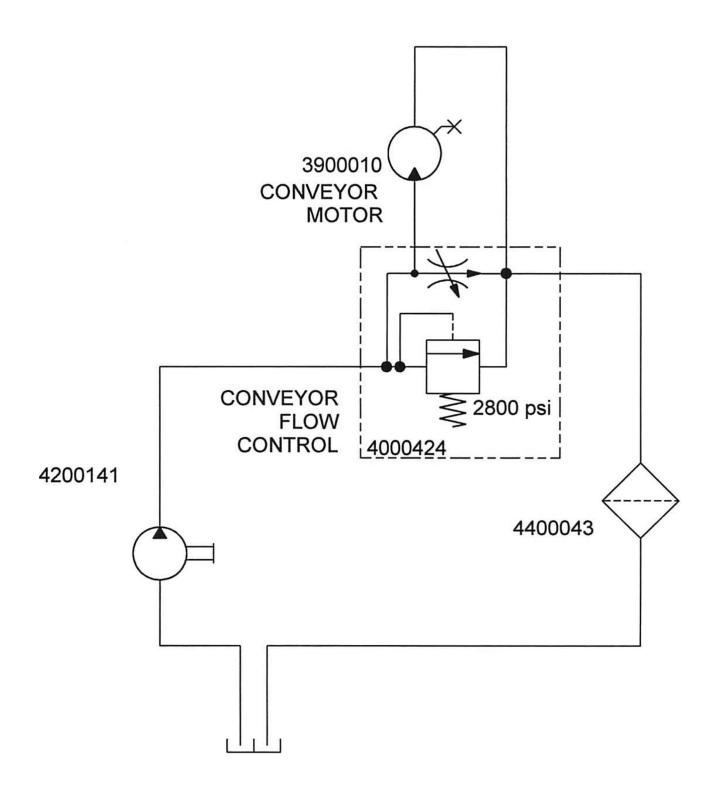
# AUGER HYDRAULICS - DETAIL H

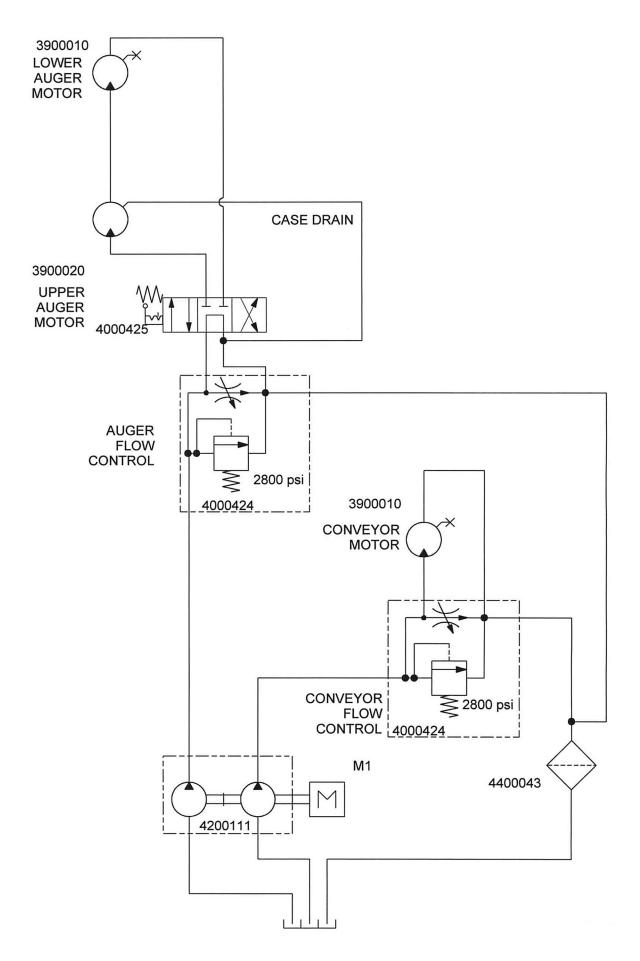
ITEM	PART	QTY.	PART DESCRIPTION
1	3800277	2	FTG\1-1/16MORX1-1/16MJIC\ST
2	3800279	2	FTG\1-1/16MORX1-1/16MJIC\90
3	3800463	1	FTG\1-1/16MORX1-1/16MJICX1-1/16MJIC\RUN;TEE
4	3800481	1	FTG\1-1/16MJICX1-1/16MJICX1-1/16MOR\BR;TEE
5	3800497	1	FTG\1-5/16FJICX1-5/16MJICX1-5/16MJIC\RUN;TEE
6	3800542	1	FTG\1-1/16FJICX9/16MJIC\ADPT
7	3800762	1	FTG\7/16MORX9/16MJIC\90
8	3800836	1	FTG\1-5/8MORX1-7/8MJIC\ST
9	3800915	4	FTG\7/8MORX7/8MJIC\45
10	3900020	1	MTR\HYD\11.9\2000\SAE;A; (THRU S.N. 0086)
10A	3900010		MTR\HYD\24\2000\SAE;A (S.N. 0087 AND UP)
11	3900020	1	MTR\HYD\11.9\2000\SAE;A;
12	4000424	1	VLV\HYD\CNRL\FLOW\#12 PORT
13	4000425	1	VLV\HYD\3POS\1DET\SPG-CNTR
14	4200111	1	PUMP\HYD\2.33x1.78\RH
15	5700052	4	WIRE CLIP
16	7501337	11	CLMP\HOSE\CUSH\3/4
17	3800911	2	FTG\7/8MORX7/8MJIC\90
18	3701048	1	HOSE\HYD\1-1/2X48\1-7/8FJICX1-7/8FJIC LOW VOLUME SUCTION PORT OF PUMP TO OUTSIDE PORT OF TANK
19	3701049	1	HOSE\HYD\3/4X55\1-1/16FJCX1-1/16FJC LOW VOLUME PRESSURE PORT OF PUMP TO IN PORT AUGER FLOW CONTROL
20	3701050	1	HOSE\HYD\3/4X127\1-1/16FJC90X1-1/16FJC CF PORT AUGER FLOW CONTROL TO IN PORT AUGER VALVE
21	3701051	1	HOSE\HYD\3/4X115\1-1/16FJC90X1-1/16FJC
			EX PORT AUGER FLOW CONTROL TO OUT PORT AUGER VALVE
22	3701052	1	HOSE\HYD\3/4X123\1-5/16FJCX1-1/16FJC EX PORT AUGER FLOW CONTROL TO FILTER IN TANK
23	3701053	1	HOSE\HYD\3/4X151\7/8FJCX7/8FJC PORT A AUGER FLOW CONTROL TO TOP AUGER ORBIT MOTOR IN
24	3701054	1	HOSE\HYD\3/4X271\7/8FJCX7/8FJC OUT PORT TOP AUGER ORBIT MOTOR TO INPORT LOWER ORBIT MOTOR
25	3701055	1	HOSE\HYD\3/4X118\7/8FJCX7/8FJC OUT PORT LOWER AUGER ORBIT MOTOR TO PORT B AUGER VALVE
26	3701056	1	HOSE\HYD\3/8X162\9/16FJCX9/16FJC90 CASE DRAIN TOP AUGER ORBIT MOTOR TO TEE ON OUT PORT AUGER VALVE

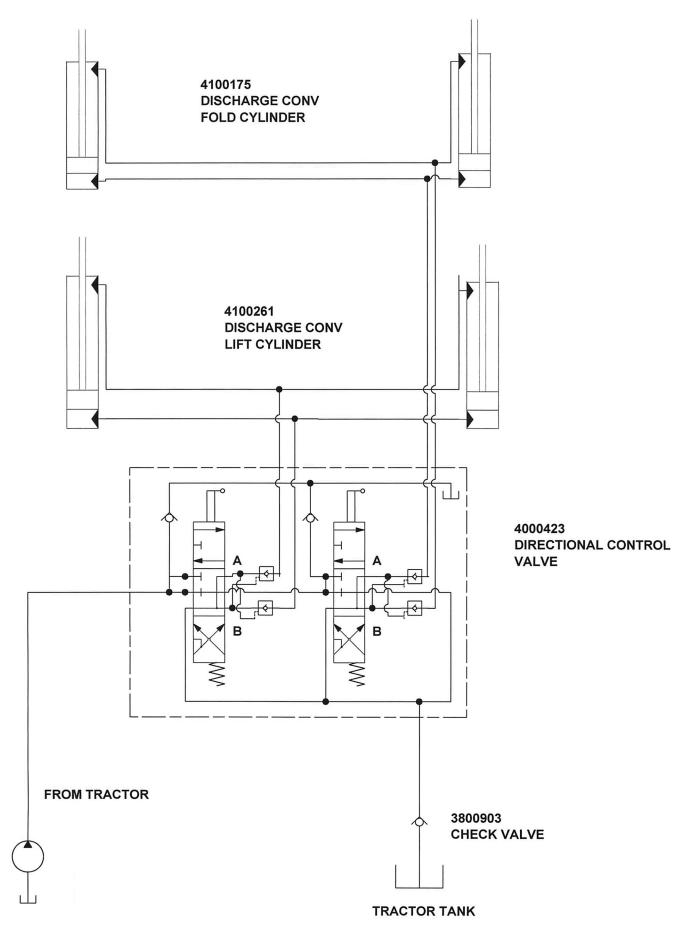


# BOTTOM AUGER HYDRAULICS - DETAIL I

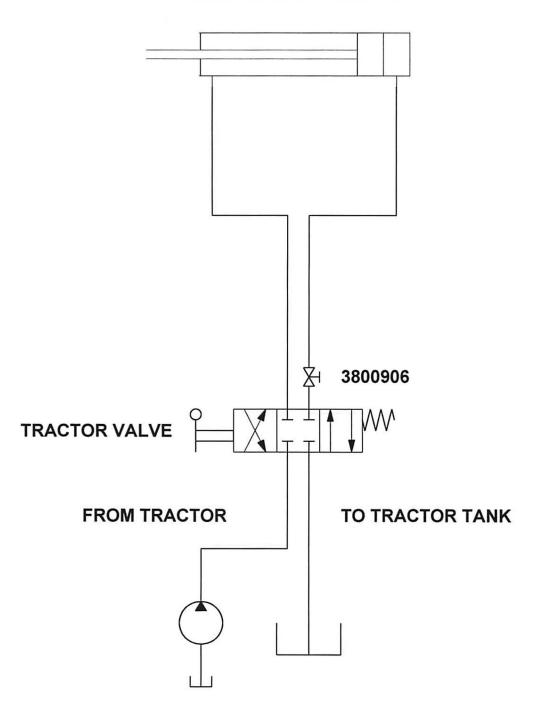
ITEM	PART	QTY.	PART DESCRIPTION
1	3800277	2	FTG\1-1/16MORX1-1/16MJIC\ST
2	3800279	2	FTG\1-1/16MORX1-1/16MJIC\90
3	3800463	1	FTG\1-1/16MORX1-1/16MJICX1-1/16MJIC\RUN;TEE
4	3800481	1	FTG\1-1/16MJICX1-1/16MJICX1-1/16MOR\BR;TEE
5	3800497	1	FTG\1-5/16FJICX1-5/16MJICX1-5/16MJIC\RUN;TEE
6	3800542	1	FTG\1-1/16FJICX9/16MJIC\ADPT
7	3800762	1	FTG\7/16MORX9/16MJIC\90
8	3800836	1	FTG\1-5/8MORX1-7/8MJIC\ST
9	3800915	4	FTG\7/8MORX7/8MJIC\45
10	3900020	1	MTR\HYD\11.9\2000\SAE;A; (THRU S.N. 0086)
10A	3900010		MTR\HYD\24\2000\SAE;A (S.N. 0087 AND UP)
11	3900020	1	MTR\HYD\11.9\2000\SAE;A;
12	4000424	1	VLV\HYD\CNRL\FLOW\#12 PORT
13	4000425	1	VLV\HYD\3POS\1DET\SPG-CNTR
14	4200111	1	PUMP\HYD\2.33x1.78\RH
15	5700052	4	WIRE CLIP
16	7501337	11	CLMP\HOSE\CUSH\3/4
17	3800911	2	FTG\7/8MORX7/8MJIC\90
18	3701048	1	HOSE\HYD\1-1/2X48\1-7/8FJICX1-7/8FJIC LOW VOLUME SUCTION PORT OF PUMP TO OUTSIDE PORT OF TANK
19	3701049	1	HOSE\HYD\3/4X55\1-1/16FJCX1-1/16FJC LOW VOLUME PRESSURE PORT OF PUMP TO IN PORT AUGER FLOW CONTROL
20	3701050	1	HOSE\HYD\3/4X127\1-1/16FJC90X1-1/16FJC CF PORT AUGER FLOW CONTROL TO IN PORT AUGER VALVE
21	3701051	1	HOSE\HYD\3/4X115\1-1/16FJC90X1-1/16FJC
			EX PORT AUGER FLOW CONTROL TO OUT PORT AUGER VALVE
22	3701052	1	HOSE\HYD\3/4X123\1-5/16FJCX1-1/16FJC EX PORT AUGER FLOW CONTROL TO FILTER IN TANK
23	3701053	1	HOSE\HYD\3/4X151\7/8FJCX7/8FJC PORT A AUGER FLOW CONTROL TO TOP AUGER ORBIT MOTOR IN
24	3701054	1	HOSE\HYD\3/4X271\7/8FJCX7/8FJC OUT PORT TOP AUGER ORBIT MOTOR TO INPORT LOWER ORBIT MOTOR
25	3701055	1	HOSE\HYD\3/4X118\7/8FJCX7/8FJC OUT PORT LOWER AUGER ORBIT MOTOR TO PORT B AUGER VALVE
26	3701056	1	HOSE\HYD\3/8X162\9/16FJCX9/16FJC90 CASE DRAIN TOP AUGER ORBIT MOTOR TO TEE ON OUT PORT AUGER VALVE

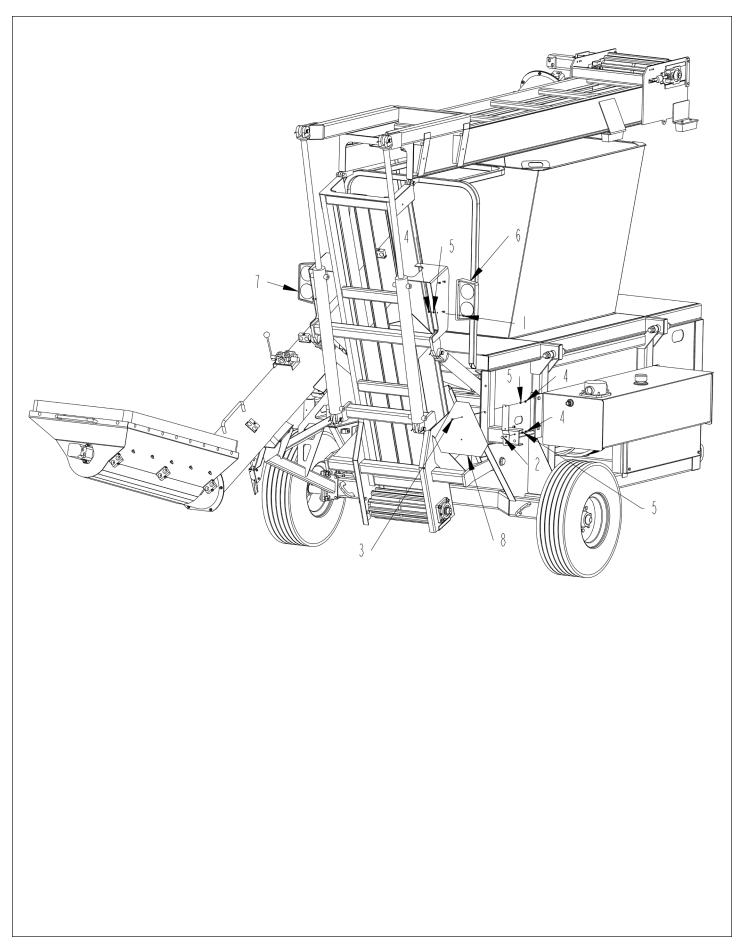






4100203 HOPPER TILT CYLINDER

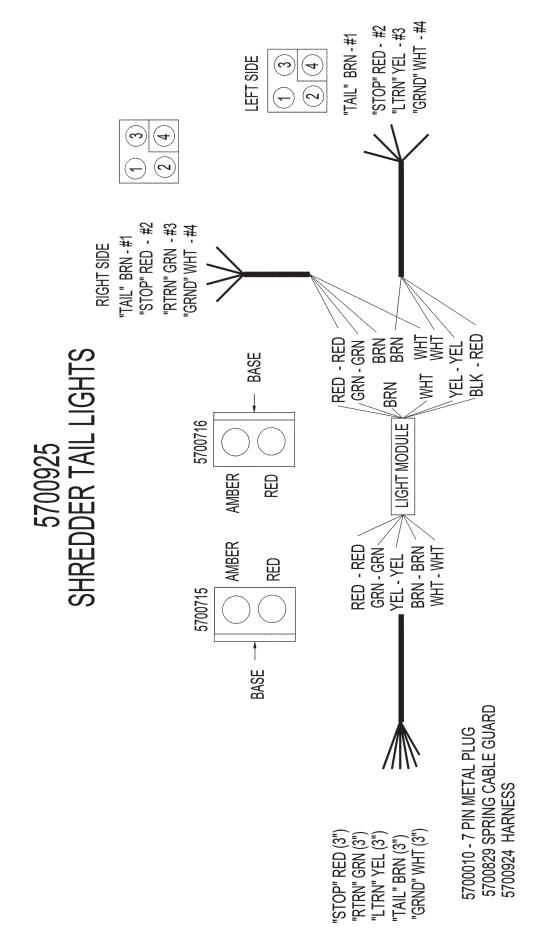




### TAIL LIGHTS AND SMV

ITEM	PART	QTY.	PART DESCRIPTION		
1	4800277	8	BOLT\HEX\1/4X1		
2	4800291	2	BOLT\CRG\1/4X3/4\NC		
3	4800503	6	BOLT\HEX\1/4X5/8\NC		
4	4900009	18	NUT\HEX\1/4\NC		
5	5000024	18	WASH\LOCK\1/4		
6	5700715	1	TAILLIGHT\RED;RIGHT\ASSY\4PIN		
6 LED	5701058		TAILLIGHT\RED;RIGHT\LED\ASSY\4PIN		
7	5700716	1	TAILLIGHT\RED;LEFT\ASSY\4PIN		
7 LED	5701059		TAILLIGHT\RED;LEFT\LED\ASSY\4PIN		
8	7501353	1	SIGN\SMV\PLSTC-BCKNGWITH SPADE & BRKT		
NOT SHOWN					
	5700924		HARN\TAIL;LIGHTS\SHREDDR\4PIN		









8.

A ADVERTENCIA

DE CINTA TRANSFO ELEVADA



15.

**GP-50** 

16.



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3.



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# HYDRAULIC OIL

7.



**▲** WARNING

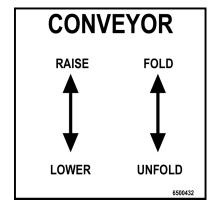
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10.



11.

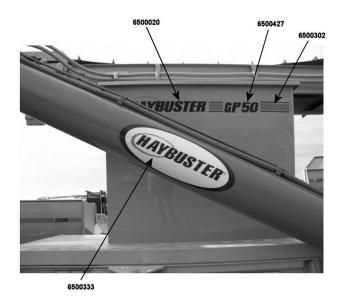




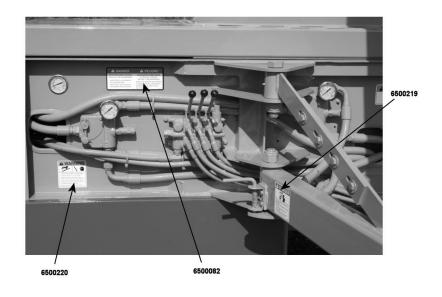
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# DECALS

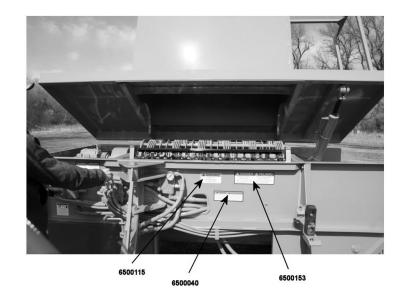
ITEM	PART	QTY.	PART DESCRIPTION					
	6500428		DECAL\KIT\GP50					
1	6500020	3	DECAL\LOGO\HYBSTR\SNBRS\3					
2	6500039	1	DECAL\INFO\S/N\DURATECH					
3	6500040	2	DECAL\WARN\SHIELD\PROT					
4	6500082	1	DECAL\WARN\ROTATN;PART;>					
5	6500085	2	DECAL\DNGR\ROTATNG;DR-LNE					
6	6500115	1	DECAL\WARN\KEEP;OFF;MACH					
7	6500124	1	DECAL\INFO\HYD;OIL					
8	6500153	1	DECAL\DNGR					
9	6500214	2	DECAL\WARN\OVRHED;CNVYR;>					
10	6500219	1	DECAL\DNGR\MOVING;PRTS\>					
11	6500220	1	DECAL\WARN\HI;PRESS;FLUID					
12	6500237	1	DECAL\DNGR\AUGER;INT					
13	6500253	1	DECAL\INFO\FLUID;LEVEL\>					
14	6500302	1.43 FT	DECAL\LOGO\STRIP\3\RD&BLK					
15	6500333	1	DECAL\LOGO\HAYB\OVAL					
16	6500427	3	DECAL\LOGO\GP50					
17	6500432	1	DECAL\CNVYR\H1130\GP50					
NOT SHOWN								
	7500077		PAINT\YELLOW\SPRAY\12OZ					
	7500077		PAINT\RED\SPRAY\12OZ					
	7500091		PAINT\YELLOW\GALLON					
	7500092		PAINT\YELLOW\QUART					
	7500104		PAINT\RED\GALLON					
	7500104		PAINT\RED\QUART					
	7000100							

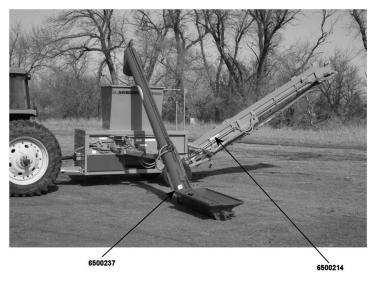














### **GP-50 Grain Processor Documentation Comment Form**

DuraTech Industries welcomes your comments and suggestions regarding the quality and usefulness of this manual. Your comments help us improve the documentation to better meet your needs.

- Did you find any errors?
- Is the information clearly presented?
- Does the manual give you all the information you need to operate the equipment safely and effectively?
- Are the diagrams and illustrations correct?
- Do you need more illustrations?
- What features do you like most about the manual? What features do you like least? If you find errors or have specific suggestions, please note the topic, chapter and page

number.	•	66	7.1	1	1 0

Send your comments to:

DuraTech Industries International, Inc.

P.O. Box 1940

Jamestown, ND 58402-1940

OR

Contact us through our website: www.duratechindustries.net

Thank you for taking the time to help us improve our documentation.

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The yellow copy is the dealer copy; the pink copy is to be retained by the customer.