

H-1100-E

**OPERATOR'S MANUAL
PARTS BOOK**

WARRANTY

Haybuster Mfg. Inc., warrants to the original purchaser for one year 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, N.D., within thirty (30) days of failure.

This warranty shall become void if in Haybuster Mfg. Inc.'s., judgment 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 Haybuster Mfg. Inc. Buyer must rely solely on the existing warranty, if any, of these respective manufacturers.

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

Haybuster Mfg. Inc., reserves the right to make changes in materials and/or designs of this product at any time without notice.

This warranty is void if Haybuster Mfg. Inc., does not receive a valid warranty registration card at its office in Jamestown, N.D., 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 Haybuster Mfg. Inc.

H-1100-E

DELIVERY AND SERVICE REPORT

- _____ Dealer assisted the customer in filling out the warranty registration form.
 - _____ The customer was provided with the appropriate engine operators manual and the grinder operators manual.
 - _____ The dealer read the operator manuals and explained in detail the operation, adjustment procedures, maintenance and safety instructions to customers.
- After performing the necessary assembly, check the following items carefully and make corrections when necessary!

CHECKED AND FOUND TO BE ACCEPTABLE:

- _____ Check the machine for shipping damage or shortage.
- _____ Check the machine for loose bolts.
- _____ Lubricate entire machine according to the lubrication chart found on page 15.
- _____ Check engine oil level.
- _____ Check engine coolant.
- _____ Check batteries.
- _____ Check air cleaner for obstructions.
- _____ Check exhaust for obstructions.
- _____ Read Engine Pre-Start-up check list in engine operation manual.
- _____ Check hydraulic oil level, page 5.
- _____ Check hydraulic connections for tightness.
- _____ Check for correct hammer arrangement, pages 23-25.
- _____ Check for proper function of tub rotation control valve, page 8.
- _____ Check for proper function of electronic governor, pages 9-14.
- _____ Check all chains for proper alignment, page 20.
- _____ Check all chains for proper tension, page 20.
- _____ Check elevator belt tracking, page 20.
- _____ Check elevator belt tension, page 20.
- _____ Check condition of tire rims.
- _____ Check wheel lug bolts for tightness.

- _____ Check tires for proper air pressure, page 12.
- _____ Check lights for proper function.
- _____ Check brakes for proper function.
- _____ Check the hydraulic components for leaks.
- _____ Verify that all shields are installed and in good condition.
- _____ Pointed out all safety shields and explained the importance of keeping all safety shields and covers securely in place. _____
- _____ Check condition of all safety, operation, and maintenance decals.

I HAVE CHECKED ALL THE ITEMS AND TEST RUN THE MACHINE.
THIS MACHINE IS READ FOR CUSTOMER USE.

Dealer's Signature _____

Model No. _____ Serial No. _____ Date of Purchase _____

Please return this report with the Warranty Card.

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2 SAFETY INSTRUCTIONS

The safety of the operator is of great importance to Haybuster Manufacturing Company. We have provided decals, shields and other safety features for your protection. In addition, we ask you to be a careful operator who will properly use and service your Haybuster equipment.

WARNING: BEFORE ATTEMPTING TO OPERATE YOUR TRACTOR WITH THE GRINDER, CAREFULLY READ AND FOLLOW INSTRUCTIONS GIVEN BELOW AND CONTAINED ELSEWHERE IN THIS MANUAL.

1. Read and follow all instructions contained in:
 - a. this grinder operator's manual
 - b. tractor operator's manual
 - c. decals placed on the grinder and tractor

NOTE: Additional copies of the above mentioned materials can be obtained from your dealer.

2. Be sure all safety shields and covers are securely in place when machine is running.
3. Allow only responsible, properly instructed individuals to operate machines. Carefully supervise inexperienced operators.
4. Make no modifications to this equipment unless specifically requested or recommended by Haybuster Manufacturing Co.
5. Tighten or replace any loose or cracked bolts, chain, hoses or connections.
6. Check overhead for electrical power lines or other obstructions and be certain there is adequate clearance.
7. Make sure the machine is in good operating condition and that all protective shields are in place and in proper working order. Replace damaged shields before operating.
8. Check periodically for breaks or unusual wear and make any necessary repairs.
9. Allow no one to ride on the grinder at any time.
10. **REMEMBER:** Loose clothing, necklaces and similar items are more easily caught in moving parts. Avoid the use of these items if possible and keep long hair confined.

11. Watch out for and avoid any object that might interfere with the proper operation on the machine.
12. Keep hands, feet and clothing away from power driven parts.
13. **OBJECTS THROWN BY MACHINE.** Do not operate without wearing safety glasses and a hard hat. Keep unauthorized personnel out of the grinding area!

DURING SERVICE AND MAINTENANCE

1. Before working on or near grinder for any reason, including servicing, inspecting or unclogging machine:
 - a. disengage power to grinder
 - b. place transmission in park or set park brake
 - c. shut off engine and remove key
 - d. wait for all movement to stop
2. When replacing any part on your grinder, be sure to use only Haybuster 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.
4. 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.

WHEN TRANSPORTING ON PUBLIC ROADS

1. Use good judgment and drive carefully, especially over rough and uneven roads.
 2. Be sure brakes are properly adjusted.
 3. Check your state laws regarding the use of lights, slow moving vehicle sign, safety chain and other possible requirements.
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4. Be aware of machine width at all times.

WARNING: FAILURE TO COMPLY WITH ANY OF THE PRECEDING SAFETY INSTRUCTIONS OR THOSE THAT FOLLOW WITHIN THIS MANUAL MAY RESULT IN SEVERE INJURY OR DEATH.

THIS GRINDER IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS INTENDED AS EXPLAINED IN THE OPERATOR'S MANUAL, ADVERTISING MATERIALS AND OTHER PERTINENT WRITTEN MATERIAL PREPARED BY HAYBUSTER MANUFACTURING.

SAFETY DECALS

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

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

IMPORTANT SAFETY INFORMATION

1. This brake winch is built for multipurpose hauling and lifting operations. It is not to be used as a hoist for lifting, supporting or transporting people, or for loads over areas where people could be present.
 2. Respect this winch. High forces are created when using a winch, creating potential safety hazards. It should be operated and maintained in accordance with instructions. Never allow children or anyone who is not familiar with the operation of the winch to use it. A winch accident could result in personal injury.
 3. Check winch for proper operation on each use. Do not use if damaged. Seek immediate repairs.
 4. Never exceed rated capacity. Excess load may cause premature failure and could result in serious personal injury.
 5. Never apply load on winch with cable fully extended. Keep at least three full turns of cable on the reel.
 6. Secure load properly. When winching operation is complete, do not depend on winch to support load.
 7. Operate with hand power only. This winch should not be operated with a motor of any kind. If the winch cannot be cranked easily with one hand, it is probably over-loaded.
-

4 BEFORE OPERATING

All machines have been pre-run at the factory to assure all functions are operating properly. The hydraulic reservoir tank contains approximately 75 gallons of hydraulic oil for test running only. Before operating your machine, additional oil must be added to the reservoir tank. It will take approximately 75 more gallons of hydraulic oil. This should bring the oil level to within 3-1/2" below the top of the reservoir.

CAUTION: Lack of proper hydraulic oil level in the reservoir tank will cause system to heat under continuous running. (Recommend Mobil 423, Co-op super HTB or similar oil.)

CAUTION: In extremely cold weather, it may be necessary to add a gallon of kerosene to the reservoir tank to thin down the oil.

PRE-OPERATING CHECKS

Before operating the Tub Grinder, follow these instructions:

1. Read and have a thorough understanding of the operator's manual, especially the sections pertaining to machine operation and safety.
 2. Be sure anyone who will assist you in the operation of this machine knows how the machine operates.
 3. Know the machine's safety features and understand the safety precautions.
 4. Be sure all lubrication points have been lubricated.
 5. Give the machine a "once-over" for any loose bolts.
 6. Make sure machine is properly adjusted. See Adjustments, pages 6 through 23.
 7. Check engines oil level and coolant level.
 8. Check hydraulic oil level.
 9. Check hydraulic components for leaks.
 10. Visually examine cylinder to see if any parts show excessive wear. These parts include shaft, plates, rods, hammers and moveable plate.
 11. Check screens, screen hold downs, for wear and tightness.
 12. Visually examine cylinder bearings and mounting bolts.
 13. Check all bearings for wear.
 14. Always grind with the machine and tractor stationary.
 15. 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 grinder again.
 16. Start the machine and check the tub direction, speed control governor for proper operation.
 17. In cold weather, allow five minutes for the machine to warm up before grinding.
 18. Make sure all shields and guards are in place.
-

SCREEN SELECTION

All Haybuster grinders have 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.

If a combination is used, the smallest hole diameter should be placed on the side of the cylinder box where the material enters the cylinder.

The coarseness of the material to be ground is determined by the hole size in the screens. Hole sizes can vary from 3/4" diameter through 4" diameter. The larger the hole diameter the coarser the grind.

Round perforated screens available are: 3/4", 1", 2", 3", 4", 5".

Slotted screens, demolition screens, and dummy screens are available.

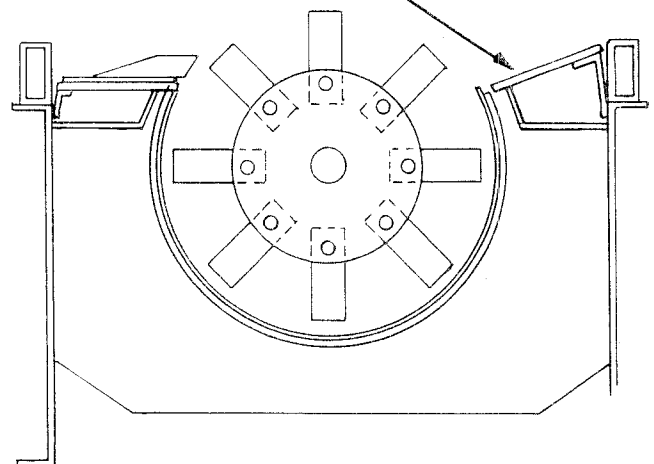
CAUTION: Keep all foreign objects out of the tub and away from the mill! Foreign objects may result in personal injury or damage to the machine.

INSTALLING A SCREEN

CAUTION: Disengage PTO and shut off engine before entering tub.

1. Loosen and remove bolts on the screen hold down bar.
2. With a large hook or bar, pull the screen from its chamber.
3. Make sure material is clear from screen holders.
4. Insert the new screen.
5. Replace the hold down bar, and bolts. Tighten all bolts securely.

SCREEN HOLDDOWN BAR



6 OPERATION

NOTE: A fire extinguisher should be handy at all times due to the possibility of sparks from engine or hammers hitting a foreign object.

INTRODUCTION

The Electronic Governor controls the feed rate to keep the engine at its peak power point. The operator is able to select the operating range so that when the feed of material lugs down the engine. The Electronic Governor will stop the feed at a high enough PTO speed to allow the engine to recover automatically.

IMPORTANT: Read and have a thorough understanding of the Rockford clutch operator's manual and specification plate found on clutch housing.

IMPORTANT: Do NOT engage clutch at high engine rpm. Before starting engine, cylinder box should be cleared of all material. Set engine at approximately 1000 rpm. Pull firmly on lever when engaging clutch to prevent excessive slippage. Check periodically for proper adjustment according to spec. plate on clutch housing.

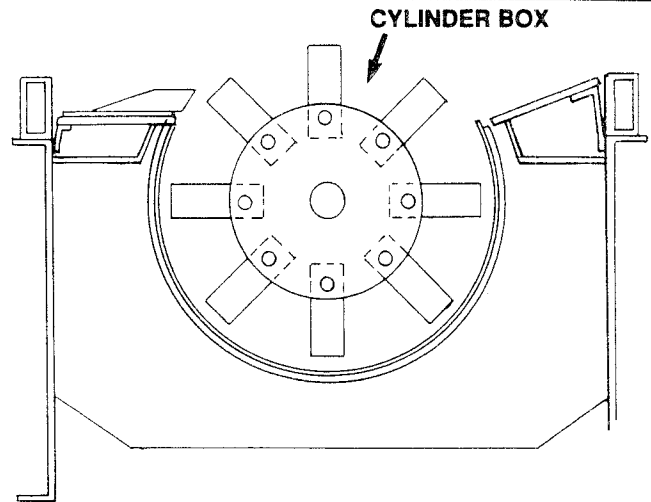
ADJUSTMENT

CLUTCH - if the clutch slips, overheats, or the clutch operating lever jumps out the clutch must be adjusted. To adjust the clutch remove the hand hole plate in the housing and rotate the clutch until the adjusting lock screw can be reached. Remove or disengage the adjustment ring lock.

HE CLUTCH - turn the adjusting ring counter clockwise to obtain recommended operating lever pressure.

HD CLUTCH - turn the adjusting ring clockwise to obtain recommended operating lever pressure.

A new clutch generally requires several adjustments until the friction surfaces are worn in. Do not let a clutch slip as this will glaze the friction plates and may ruin them.



DAMAGE DUE TO EXCESSIVE SLIPPING WILL NOT BE COVERED BY WARRANTY.

OPERATION

1. When first starting machine, run at less than full throttle to allow hydraulic system to warm up before operating.

Haybuster Manufacturing test runs every grinder before it leaves the factory. The control box was calibrated at this time and should not need any further adjustment. Before attempting to adjust the control box, read pages 8 through 12.

GRINDING

Materials to be ground should be placed directly into the tub. The best methods for filling the tub is:

1. Fill the tub about half full of unground materials before starting tub rotation.
2. Start tub.
3. Place additional materials in the tub.

WET MATERIAL

This is the toughest material for any grinder to handle. When filling the tub with wet material, deposit small quantities on a more frequent basis rather than filling the tub with one load.

IMPORTANT: Never drop a large object into the tub from a high level. Ease the material over the edge and down into the tub carefully.

IF LODGING OCCURS

Occasionally materials may lodge against the side of the tub and not feed down to the mill. If this occurs, reverse the tub direction for about two rotations and then start the tub in a clockwise direction again. This practice normally dislodges any materials.

CAUTION: Never attempt to dislodge material inside the mill when the machine is in operation by physically pushing materials down. WHEN THE MACHINE IS IN OPERATION, STAY OUT OF THE TUB.

STOPPING THE MACHINE

CAUTION: The stored up energy in the cylinder causes it to rotate long after the engine PTO has been disengaged. Before performing any maintenance on the machine or getting into the tub, be sure cylinder and all moving parts have come to a complete stop.

TRANSPORTING

CAUTION: DO NOT MOVE TUB GRINDER without first securing the conveyor in transport position.

TO PREPARE FOR ROAD TRANSPORT

1. Be sure all loose parts (shields, screens, extra hammers) are securely fastened down.
2. Make sure all bystanders are clear, moving parts can cause injuries.

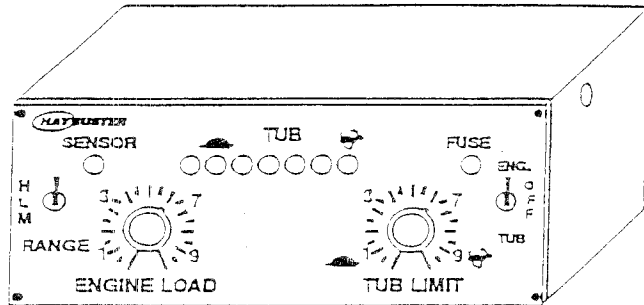
3. When folding the conveyor, lower discharge conveyor down until it's level with the ground. Release tension adjusting handle on idler roller. Release latch handle (near center of conveyor).

WARNING: Failure to use caution while folding the conveyor could result in serious injury.

4. Fold the conveyor by lifting the discharge end. Use caution as end section goes over center!
 5. Secure all conveyor transport bars (4) into their proper locations.
 6. Hitch the grinder to a towing vehicle with adequate load carrying and breaking capacity. Be sure to attach safety chains between towing vehicle and grinder.
 7. Hook up the electrical and air connectors.
 8. Raise the dollies and lock the handle in its storage position.
 9. Check lights and brakes for proper function.
 10. Check the turning clearance between grinder and the towing vehicle.
 11. Check local ordinances regarding restrictions for machine travel on local roads.
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8 OPERATION & TROUBLE SHOOTING - ELEC. GOVERNOR

MODEL RCB93 ELECTRONIC GOVERNOR INTRODUCTION

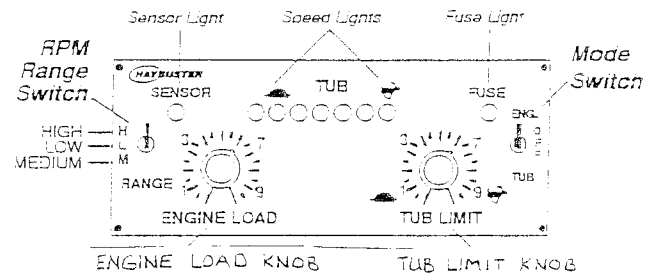
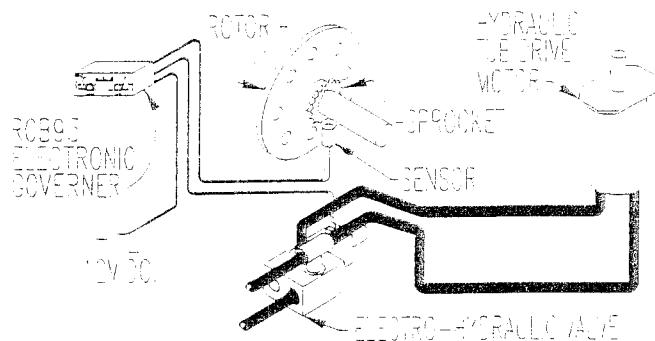


The MODEL RCB93 Electronic Governor automatically controls the feed rate to keep the engine operating in its' optimum power zone. ("ENGINE" mode). When the load on the grinding rotor begins to lug the engine, the Electronic Governor automatically reduces the tub rotation speed in proportion to the load. The result is a nearly constant load on the engine, which will maximize grinding efficiency.

The RCB93 Electronic Governor will also perform as a simple tub speed control. ("TUB" mode). In this mode the tub speed is constant and it will not change to match varying load conditions.

When the Electronic Governor is switched to the engine mode, it is monitoring the rotation speed of the engine. The hydraulic flow to the tub drive mechanism is regulated proportionally to the engine speed (RPM). When the engine begins to lug, (decreased RPM), the hydraulic oil flow is reduced which in turn slows the tub rotation. With proper calibration the engine will only lug down to its' optimum horsepower RPM and the tub rotation will be varied proportionally to keep the engine at this RPM.

TYPICAL ELECTRONIC GOVERNOR SYSTEM



EXPLANATION OF FRONT PANEL

"FUSE" LIGHT - The light is **on** whenever the electronic governor is receiving power.

"SENSOR" LIGHT - This light is **on** whenever the electronic governor is receiving enough input signal from the sensor.

"SPEED" LIGHTS - These lights indicate how fast your tub should be turning based on the output signal that the electronic governor is sending to the electro-hydraulic valve. When the first light (furthest to the left) turns **on**, the electronic governor is sending approximately **3 volts** to the electro-hydraulic valve. The tub should begin to rotate slowly when the first or second light turns **on**. Each additional "speed" light represents **one** additional **volt** being sent to the electro-hydraulic valve, with a corresponding increase in tub rotation speed. The last light (furthest to the right, under the rabbit symbol) will be **on** when a **9 volt** signal is sent to the electro-hydraulic valve, which will rotate the tub at the maximum speed. During operation in the **ENGINE MODE**, these lights will move back and forth automatically between the turtle and rabbit symbols as the tub speed increases and decreases.

"RANGE" SWITCH (HI, MEDIUM, & LOW) - This switch is used only when in the **ENGINE MODE**. This switch is a coarse adjustment which tells the electronic governor what RPM range your engine will be operating in (typically medium). Use the **"ENGINE LOAD KNOB"** as a fine adjustment for the **RANGE** switch.

"MODE" SWITCH - ENGINE MODE places a near constant load on the engine based on the settings of the **"ENGINE LOAD KNOB"** and **"TUB LIMIT KNOB"**. **TUB MODE** rotates the tub at a constant speed based only on the setting of the **"TUB LIMIT KNOB"**. The Electronic

OPERATION & TROUBLE SHOOTING - ELEC. GOVERNOR 9

Governing function will not operate in the “**TUB**” mode.

“**ENGINE LOAD KNOB**” - This single turn knob is used only in **ENGINE MODE**. Turning this knob to the **right** (to a **higher number** setting) will allow the engine to **operate at a higher RPM, decreasing** the load on the engine. Turning the knob to the **left** (to a **lower number** setting) will **lug** the engine to a **lower RPM**, which **increases** the load on the engine.

“**TUB LIMIT KNOB**” - This single turn knob can be used in either the **ENGINE MODE** or **TUB MODE**. This dial sets the **maximum** tub speed. In **ENGINE MODE** the tub speed will be governed from the maximum speed set by the “**TUB LIMIT KNOB**” down to zero tub RPM. In the **TUB MODE** the “**TUB LIMIT KNOB**” will set a **constant** tub rotation speed with **no** governing control. The “**TUB LIMIT KNOB**” will be most useful during **tough grinding conditions** when you don't want the tub to rotate at full speed if the grinding load temporarily becomes light. The closer the knob is set to the turtle, or 1, the slower the maximum speed of rotation will be. the closer the knob is set to the rabbit, or 9, the faster the maximum speed of rotation will be. When the knob is turned all the way to rabbit, or 9, the tub rotation speed will not be limited at all.

TUB LIMIT ADJUSTMENT

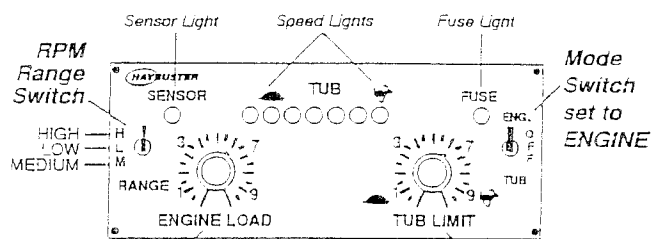
If you wish to limit the maximum rotating speed of the tub, the adjustment can be made at this time, or at any time during the grinding operation by following this procedure. This function is most useful when grinding in tough conditions when you don't want the tub to turn full speed if the load happens to temporarily become light.

Switch the “**MODE**” switch to “**TUB**” position. Turn the “**TUB LIMIT KNOB**” counter-clockwise to reduce the maximum rotating speed of the tub. Observe the “**SPEED**” lights to get an indication of the tub speed. If all of the lights are **on** the tub maximum rotation speed will not be limited at all. If only the first light is **on** the maximum tub rotation speed will be very slow. Choose the speed that you find desirable. This setting will be the maximum speed that the tub will turn. When the “**MODE**” switch is returned to the “**ENG.**” position

the Electronic Governor will adjust tub speed slower if required but the tub will not rotate faster than the maximum setting determined by the “**TUB LIMIT KNOB**”. Switch the “**MODE**” switch back to “**ENG.**” position to begin grinding.

The grinder may be operated in the “**TUB**” mode if desired but the Electronic Governor will not control the load on the engine. Only the maximum rotation speed of the tub will be controlled in this mode.

ENGINE MODE

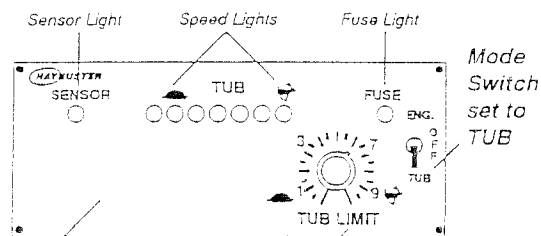


Use Engine Load dial as a fine adjustment for the RPM Range switch. Sets load desired on engine.

Use Tub Limit to set maximum tub speed. Best use is for tough grinding. No tub limiting when set to '9'.

HINT: Easiest way to set maximum tub RPM for engine mode of operation is to switch to **tub** mode prior to engaging rotors and set **tub** speed limit dial for a specific speed lamp(s) to be on, then switch to **engine** mode and engage clutch to start rotor.

TUB MODE



Engine Load dial and RPM Range switch have no effect in Tub mode.

Tub will operate at full speed in Tub Mode unless it is limited with this dial. Closer to '1' will set maximum speed to slow. Closer to '9' will set a fast maximum speed. No limiting when dial is set full clock-wise (at '9').

MODE	USED FOR
ENGINE	Sets max. tub RPM at one engine RPM. Tub RPM will increase and decrease as engine RPM increases and decreases.
TUB	Fixed tub RPM at any engine RPM. Tub RPM limited only by Tub Limit Dial. Tub RPM constant regardless of engine fluctuation.

10 OPERATION & TROUBLE SHOOTING - ELEC. GOVERNOR

MODEL RCB 93 ELECTRONIC GOVERNOR OPERATION

Switch the “**MODE**” switch to “**ENG.**” position for automatic load control when grinding. Throttle the engine to 2200-2300 RPM before engaging the tub hydraulic drive. As the material is fed into the grinding rotor the engine will be lugged to about 2000 RPM and the tub rotation speed will automatically be adjusted to keep a near constant load on the engine. If the engine is not working hard enough, turn the “**ENGINE LOAD KNOB**” counter-clockwise to increase the load. If the engine is lugged down too much, turn the “**ENGINE LOAD KNOB**” clockwise to reduce the load on the engine. If the load is very intermittent such as when grinding large logs, the “**TUB LIMIT KNOB**” may need to be turned counter-clockwise to limit the maximum rotating speed of the tub. This will prevent a large load from being forced to the grinding rotor too quickly, when gaps occur in the load, causing a sudden overload.

TROUBLESHOOTING THE ELECTRONIC GOVERNOR SYSTEM

These are some simple procedures to follow in the event that problems occur with your Electronic Governor System. If the problems remain after following these procedures, follow the directions under **MANUAL OVERRIDE**, and see your dealer as soon as possible.

“**FUSE**” light - This light is **on** whenever the Electronic Governor is receiving power. If this light fails to go on and the tub will not turn, check fuse, battery connections, and wiring harness. If the “**FUSE**” light is **on**, the wiring harness is functioning correctly between the battery and the electronic governor.

“**SENSOR**” light - This light is **on** whenever the Electronic Governor is receiving an adequate input signal from the sensor. If this light fails to go on and the tub will not turn, check sensor gap spacing, sensor connections, and wiring harness. If the “**SENSOR**” light is **on**, the wiring harness is functioning correctly between the sensor and the electronic governor.

“**SENSOR GAP SPACING**” - The sensor is found near the front grinding rotor bearing. A sprocket is

located on the rotor shaft in front of the front bearing. There should be a **3/32” gap** (the thickness of a nickel) between the end of the sensor and the tips of the sprocket teeth. The sensor must not come in contact with the sprocket teeth. Any contact between the sensor and the rotating sprocket will destroy the sensor.

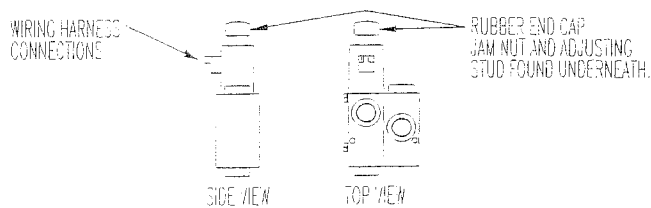
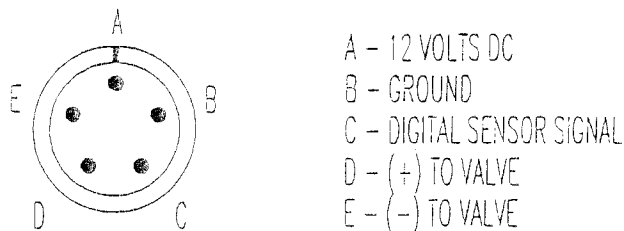
“**SPEED**” **LIGHTS** - These lights indicate how fast your tub should be turning based on the output signal that the electronic governor is sending to the electro-hydraulic valve. When the first light (furthest to the left) turns **on**, the electronic governor is sending approximately **3 volts** to the electro-hydraulic valve. The tub should begin to rotate slowly when the first or second light turns **on**. Each additional “speed” light represents **one** additional **volt** being sent to the electro-hydraulic valve, with a corresponding increase in tub rotation speed. The last light (furthest to the right, under the rabbit symbol) will be **on** when a **9 volt** signal is sent to the electro-hydraulic valve, which will rotate the tub at the maximum speed. During operation in the **ENGINE MODE**, these lights will move back and forth automatically between the turtle and rabbit symbols as the tub speed increases and decreases.

To test the output voltage to the electro-hydraulic valve, shut down entire machine including switching the “**MODE**” switch on the electronic governor to “**OFF**”. Disconnect the wiring harness from the electro-hydraulic valve and route the leads so you can easily connect a voltmeter to them. Switch the voltmeter to read 12 volt DC current. Connect the red lead of the voltmeter to the red lead on the wiring harness. Connect the black lead on the voltmeter to the black lead on the wiring harness. Switch the electronic governor to “**TUB**” position. Turn the “**TUB LIMIT KNOB**” counter-clockwise until the left hand “**SPEED**” light is **on**. (The light nearest the turtle symbol.) The voltmeter should read approximately 3 volts. Turn the “**TUB LIMIT KNOB**” clockwise until the center “**SPEED**” light is **on**. The voltmeter should read approximately 6 volts. Turn the “**TUB LIMIT KNOB**” clockwise until the 7th light just turns **on**. The voltmeter should read approximately 9 volts. The voltage readings are not critical but the fact that the readings increase as the “**TUB LIMIT KNOB**” is turned clockwise is important. The RCB93 Electronic Governor is working correctly if you get

readings similar to those shown. The wiring harness to the electro-hydraulic valve is functioning correctly if you are able to obtain readings at the valve end of the harness.

If no readings are obtainable at the valve end of the harness, switch the electronic governor "MODE" switch to "OFF". Disconnect the wiring harness from the rear of the electronic governor. Refer to the diagram of the wiring harness connector below. Check **pin D** and the **red** valve lead on the harness for continuity. Also check **pin E** and the **black** valve lead for continuity. If there is no continuity in either one of the leads the wiring harness must be replaced. If you have continuity in both valve leads, the valve leads in the wiring harness are **OK**. Clean the contacts on the wiring harness connector and reconnect the wiring harness to the electronic governor. Check again for voltage at the valve leads as described above. If no voltage is present at the end of the valve leads the RCB93 Electronic Governor is faulty.

VIEW OF WIRING HARNESS CONNECTOR
LOOKING DIRECTLY AT CONNECTOR.



ELECTRO-HYDRAULIC VALVE ADJUSTMENT

Remove the rubber end cap from the end of the valve coil to find a jam nut and an adjusting stud with a screwdriver slot. Disconnect the wiring harness from the coil. Loosen the jam nut. Start the engine and engage the tub drive in the forward direction by pushing the hydraulic tub control lever towards the machine. Throttle the engine up to 2000 RPM. **Do not engage the clutch!**

IMPORTANT: Stay clear of all moving parts while adjusting the "ELECTRO-HYDRAULIC VALVE". The tub will be rotating during this adjustment.

If the tub is not rotating, turn the adjusting stud clockwise until the tub begins to rotate. When the tub begins to rotate, turn the adjusting stud counter-clockwise until the tub just stops. (If the adjusting stud comes all the way out and the tub is still rotating, then the valve is faulty.) Lock the adjusting stud with the jam nut and replace the rubber cap. Shut down the entire machine. Reconnect the wiring harness to the valve coil.

ELECTRO-HYDRAULIC VALVE COIL TEST

This test requires an accurate ohm meter. Disconnect the wiring harness leads at the valve coil. Set the meter to read ohms (Ω). Place one test lead from the meter on each of the two electrical connections of the valve coil. The reading should be from 8-14 ohms. If the reading is not in that range, replace the coil.

MANUAL OVERRIDE

NOTE: If there is an electrical failure with your machine you may still be able to grind. Switch the RCB93 Electronic Governor to "OFF". Remove the rubber end cap and loosen the jam nut on the electro-hydraulic valve. Start the machine and engage the tub drive as previously described.

IMPORTANT: DO NOT ENGAGE CLUTCH AT THIS TIME!

Turn the adjusting stud clockwise until the tub rotates at the desired speed. Lock the jam nut on the adjusting stud and replace the rubber end cap on the valve coil. The valve will function only as a

12 OPERATION & TROUBLE SHOOTING - ELEC. GOVERNOR

manual flow control when it is adjusted in this manner. The grinder will now operate as it would if the **RCB93 Electronic Governor** were switched to the "**TUB**" mode. There will be **NO** automatic tub control!

Contact your dealer for further repairs or replacement parts as soon as practical. When the problems are corrected, loosen the jam nut on the electro-hydraulic valve and turn the adjusting stud counter-clockwise until the tub just stops. Tighten the jam nut and replace the rubber cap.

MODEL RCB93 ELECTRONIC GOVERNOR CALIBRATION

Begin the calibration procedure with entire grinder completely shut down. Place the "**MODE**" switch in the "**OFF**" position and the "**RANGE**" switch in the "**M**" position. Rotate the "**TUB LIMIT KNOB**" fully clockwise toward the "**rabbit**" position. Turn the "**ENGINE LOAD KNOB**" clockwise until it is pointing to the number "**9**" position.

Shift the tub control lever into neutral, and verify that the clutch lever and conveyor belt drives are in neutral. Inspect entire machine to verify that **all personnel** are **out of harm's way**.

Start the engine by following the operating instructions in the engine operator's manual. Run the engine at about 1/2 throttle to allow the hydraulic system to warm up before calibrating the RCB93 Electronic Governor.

When the engine and hydraulic system have reached operating temperature the calibration process may begin. Throttle the engine to 1000-1200 RPM and engage the clutch. Engage the tub drive in the forward direction by pushing the hydraulic tub control lever towards the machine. Throttle the engine up to 2000 RPM. Switch the "**MODE**" switch to the **ENG.** position. The "**FUSE**" light and the "**SENSOR**" light should come **on**. The tub should not be rotating at this time. If it is rotating then switch the range switch to "**H**" or "**HIGH**" position.

Slowly rotate the "**ENGINE LOAD KNOB**" counter-clockwise until the tub just begins to move. The tub should begin to rotate before you have turned the "**ENGINE LOAD KNOB**" counter-clockwise to the number "**7**". If it does not begin to rotate then switch the "**RANGE**" switch to "**L**" or "**LOW**" position. The Electronic Governor is properly calibrated when the "**ENGINE LOAD KNOB**" is positioned somewhere between "**7**" and "**9**" and the tub is just beginning to creep.

CAUTION: Always shut off machine before adjusting or lubricating.

Hydraulic oil reservoir capacity: (150 gallons).
Change hydraulic oil and filter at least once a year.

When grinder is operated during cold weather, all lubrication should be performed after bearings are at operating temperatures.

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 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 indicates too little grease. Normal temperature and a slight showing of grease at the seals indicate proper lubrication.

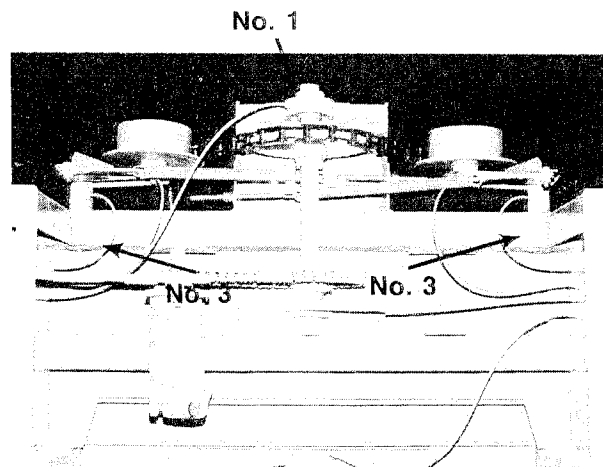
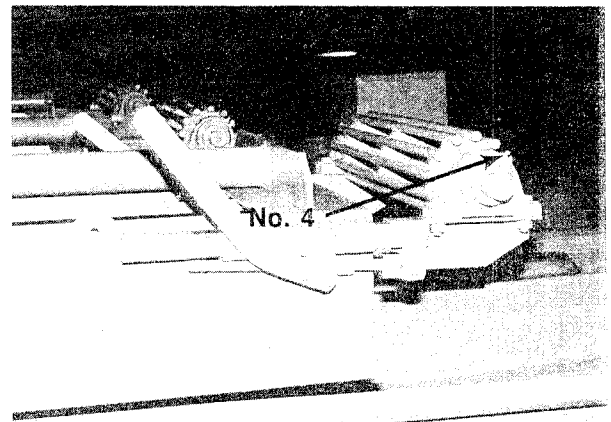
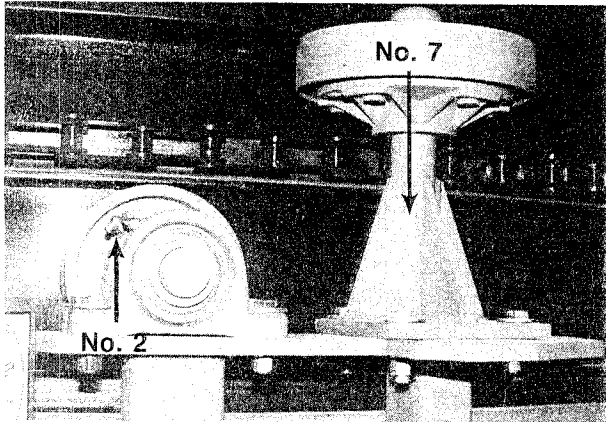
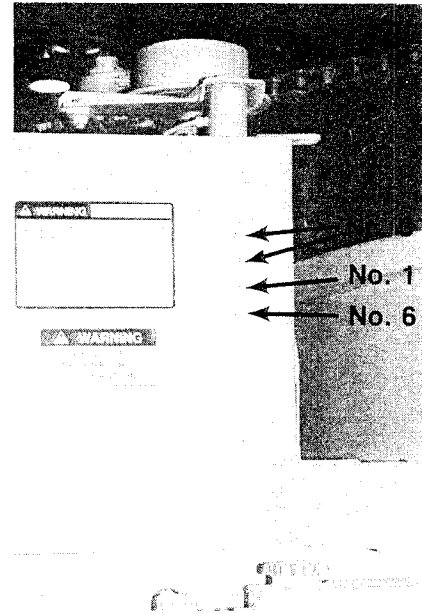
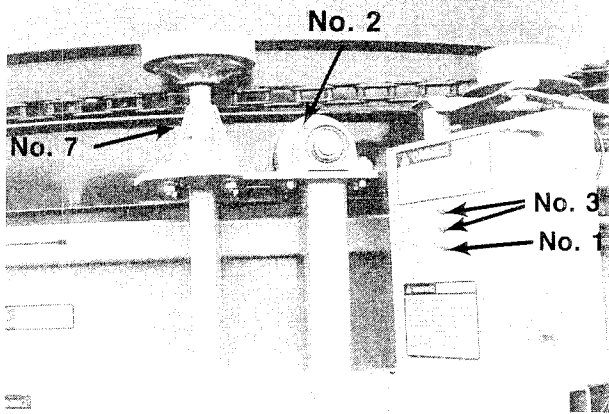
The following chart is a general guide for relubrication. Certain conditions may require a change of lubrication periods as dictated by experience.

LUBRICATION CHART

Ref. No.	Location	No. of Zerks	Frequency	
1	Tub Drive Shaft	2	40 hrs.	
2	Tub Rollers	6	40 hrs.	*
3	Tub Chain Idler Cast	2	5 hrs.	
4	Discharge Conveyor	4	40 hrs.	*
5	Belly Conveyor	4	40 hrs.	*
6	Cylinder	2	10 hrs.	*
7	Tub Pressure Roller	4	Annually	
8	Wheel Bearings		Annually	
9	P.T.O.		40 hrs.	*
10	Roller Chains		Oil Daily in Dusty Conditions	

14 LUBRICATION

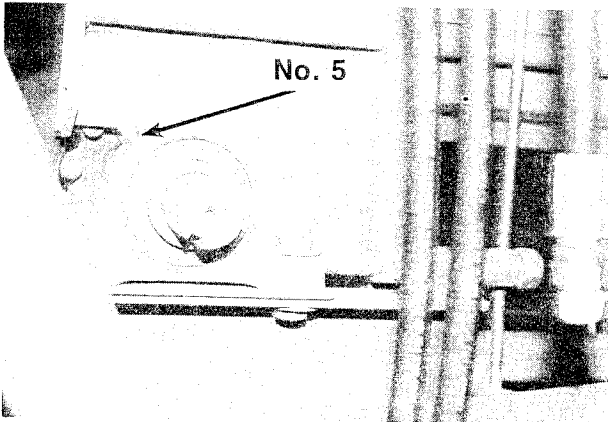
NOTE: Reference numbers on the following pictures correspond with the lubrication chart. See page 9.



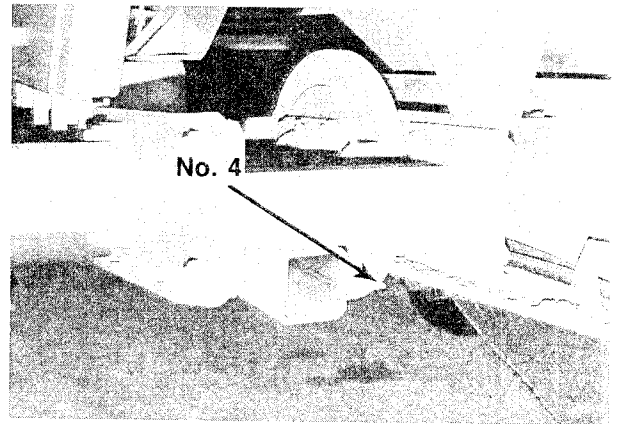
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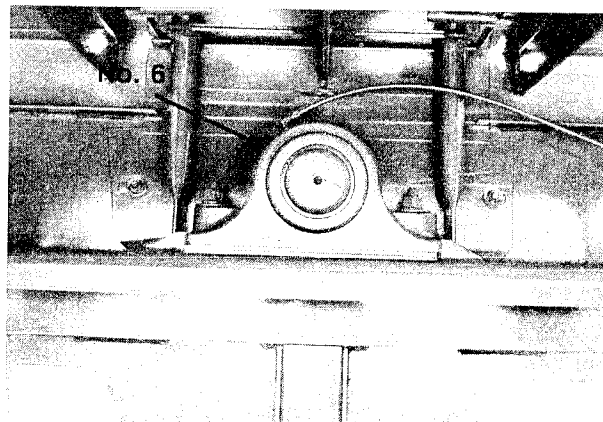
No. 5



No. 4



No. 6



16 MAINTENANCE

MAINTENANCE

WARNING: Before servicing machine, read the Service and Maintenance section of the Safety Instructions.

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

ADJUSTING CONVEYOR BELT STRETCH: Both discharge and belly conveyor idler rollers are adjustable to allow for belt stretch. If conveyor belt slows down or stops during operation, tighten both adjusting bolts equally to keep belt centered on idler roller. Due to the conveyors length, the belt will sag on the lower side. This is normal and belt tightness should be judged on slippage.

CAUTION: Do not overtighten conveyor belts.

ADJUSTING CONVEYOR BELT TRACKING: Both discharge and belly conveyor rollers are adjustable. If belt does not run centered on drive roller, loosen the orbit motor mounts.

IF BELT IS RUNNING TO THE RIGHT SIDE: Loosen the right bearing and tighten the belt on the right side to center belt on roller.

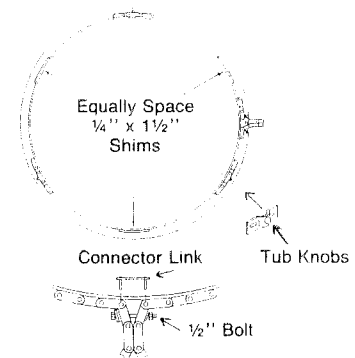
IF BELT IS RUNNING TO THE LEFT SIDE: Loosen the right bearing and loosen the belt on the right side to center belt on roller.

Be sure to realign orbit motor, and tighten bolts after correction is made.

Adjust idler roller respectively!

1. Check for loose chains or belts, sprockets or pulleys loose on shaft, badly worn chains or belts.
2. Keep sprockets and pulleys aligned.
3. Inspect the machine for foreign objects wrapped around rotating parts.
4. If machine is going to set for an extended period of time, tub floor should be cleaned to prevent rust and sticking problems at start up time.

5. Tub drive chain is equipped with a spring tensioned idler.
6. Due to normal wear, drive chain may tend to climb on driving knobs of tub. If this should occur, the chain should be sized to fit the tub, and the tub knobs adjusted for proper spacing in the chain. Step 1 (sizing the chain). Loosen tub knobs and wrap the chain around tub. (Do not run the chain around tightener rollers or drive gear.) Using 1/2" bolt, pull chain together so center to center on link pins matches pins on connector link. If the distance is less or greater than the connector link, shims must be added. Equally space shims of equal thickness and length under chain until proper distance is obtained. Do not add under tub knobs. (See illustration.) Step 2. Adjust tub knobs so all three knobs contact chain link on the same side of the knobs. Tighten bolts holding knobs in place and return chain to working position.



Tire Pressure: The proper tire pressure is 125 psi.

Pressure Roller: The grinder has a pressure roller with tapered roller bearing. The bearings should be checked for lubrication and adjustment annually, 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, the bearing should be washed to remove old grease. Repack the bearings.

Wheel Bearings: The wheels have tapered roller bearing in an oil bath. The hub is equipped with a transparent oil cap with oil level indicator mark to allow visual checking for adequate lubricant.

Check level periodically. Refill with SAE 80W-90 HYPOID GEAR OIL. This lubrication method assures long bearing life with proper maintenance of oil level.

Electric Brakes: The electric brakes should be inspected periodically.

18 MAINTENANCE

IMPORTANT SAFETY INSTRUCTIONS READ ALL INSTRUCTIONS

Visually examine mill to see if any internal parts show excessive wear. Repair or replace needed parts. These parts should include body, liners, rotor discs and holes in the discs that support the rods. Enlarged holes can cause rods to break. Also check rods, rod locking or retaining devices, hammers, screens, screen channels or hold downs, main shaft, lid locking devices, hinges or anything else that could wear and perhaps fail if not properly maintained, and cause damage to the hammermill and/or personnel. Bearings and motor alignment should also be checked along with mounting bolts to insure a firm foundation and reduced vibration. Foreign material in a mill can cause severe damage to hammers, screens, rods, and other parts and may cause part and subsequent hammermill failure.

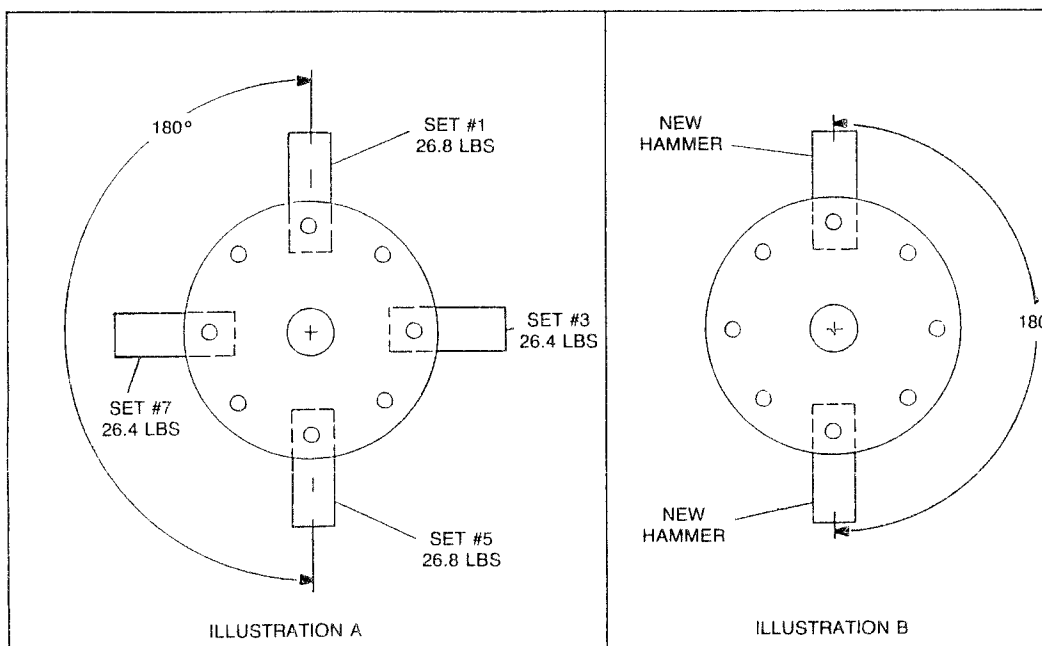
Keep all foreign objects out of the tub and away from the mill. Foreign objects may result in personal injury or cause severe damage to hammers, screens, rods, and other parts which will cause hammermill failure.

When installing or changing hammers, be sure to follow directions on the installation spacers diagram carefully. Misplacement could cause excessive vibration. We recommend that hammers be

balanced in sets according to the rod on which they are to be installed. Sets of equal weight should be installed 180° apart (See Illustration A). When replacing a worn or broken hammer with a new hammer always install a second new hammer 180° away from the first (See Illustration B). When starting the hammermill after installing a new set of hammers or turning corners, watch for unusual or excessive vibration. If any occurs, immediately shut off the mill. Check to see what is wrong and correct it before starting the mill again.

JACOBS HAMMERS are designed to grind the normal ingredients used in the manufacture of feed and related products and other products such as paper or wood residue, chips, sawdust, shavings, or hogged materials that may be reduced in size in a hammermill. They are not designed to grind or crush, on a primary basis, hard materials such as coal or minerals. Metals, rock, or other similar materials, which could cause parts to fail, should never be allowed to enter a hammermill.

JACOBS 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. Any alteration of the hammer by heating, grinding, resurfacing or any other process can change the mechanical properties of the hammer and make it unsuitable or dangerous to use.



HAMMERS: Because of the high capacity of the machine, the hammers will wear and must be considered expendable. Each hammer has four cutting corners. For maximum life, it is suggested that hammers be rotated periodically to even out the wear over the entire hammer.

HAMMER AND SCREEN CONDITION

Cylinder hammers and screens are the heart of the grinder. If cutting edges of the hammers become rounded, hammers should be replaced or turned to expose a new cutting edge. Each hammer has four cutting edges. If end of hammer is allowed to wear too long, one cutting edge is lost. Also badly worn hammers weaken area around hole in hammer so it cannot be turned end for end.

Screens have two cutting edges. When home cutting edges become rounded, screen can be turned end for end exposing new cutting edges.

The results of badly worn hammers and screens is loss of capacity, and added horse power requirements.

NOTE: Hammer and hammer rod life can be extended by keeping cylinder rotating at 2000 rpm. Too much engine horse power and/or over feeding the cylinder will cause the hammers to lay back resulting in excessive wear on both hammers and rods!

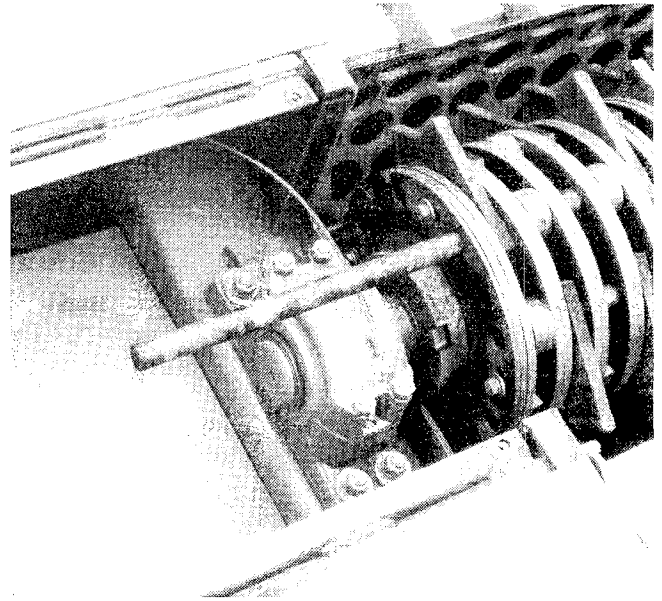
HAMMER RODS: Rods can be turned end for end exposing a new surface area for wear. This will extend service life although hammer rods must be considered expendable.

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

HAMMER REPLACEMENT

CAUTION: Disengage PTO and shut off engine before entering tub.

To install new hammers or change the cutting edge on existing hammers, tub floor should be free of all material for easy access to cylinder and front cylinder bearing cover.

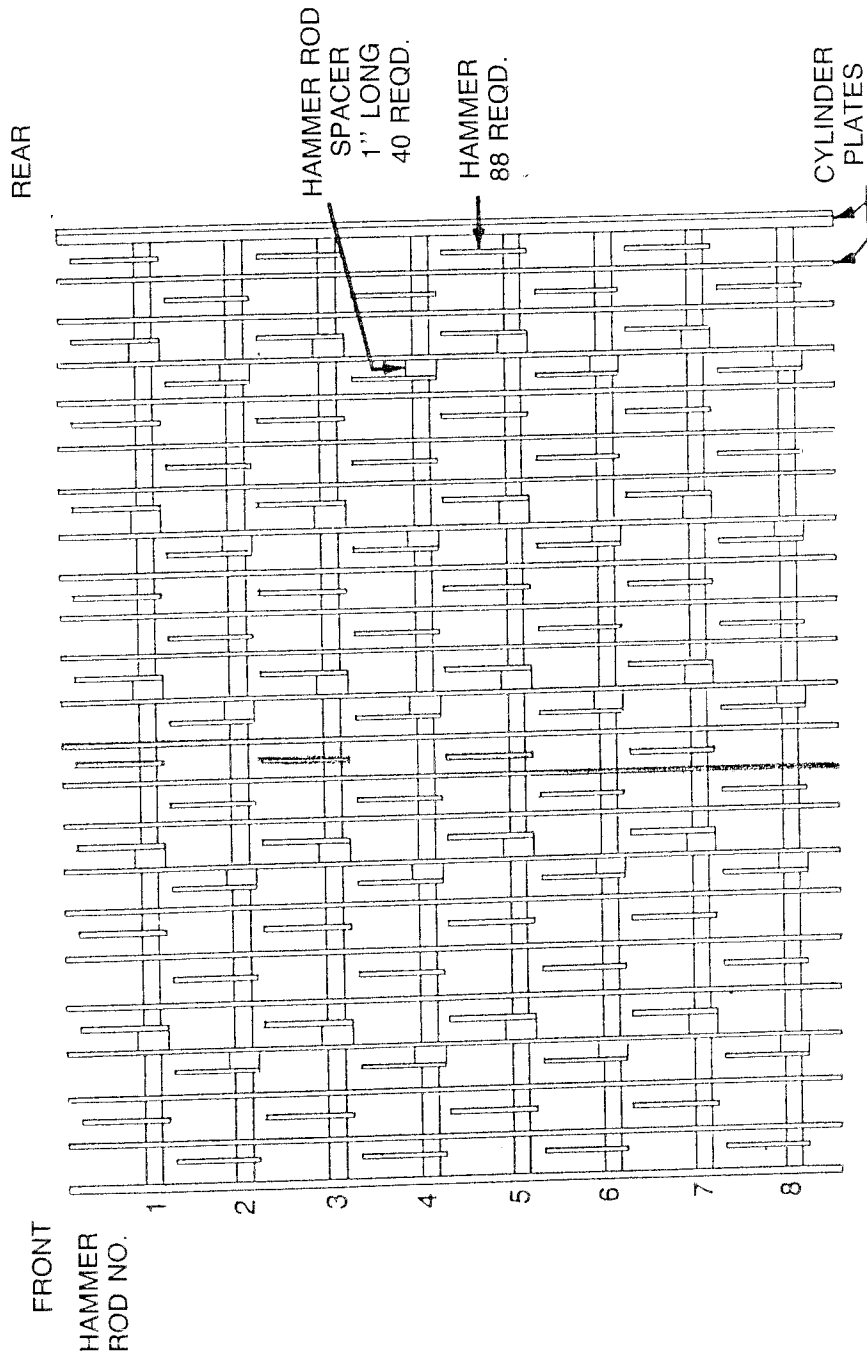


1. Remove front cylinder bearing cover. Item A illustration.
2. Loosen two bolts at front of cylinder which holds the hammer rod retainer plate in place. Item B in illustration.
3. Rotate retainer plate counter clockwise to align holes allowing hammer rods to be removed through front of cylinder. Item C in illustration.
4. Remove one row of hammers and replace, taking note as to where spacers are located. (Separate sheet shows proper spacer location.)
5. After all hammers have been replaced, reassemble retainer plate and rear cylinder bearing cover.

IMPORTANT

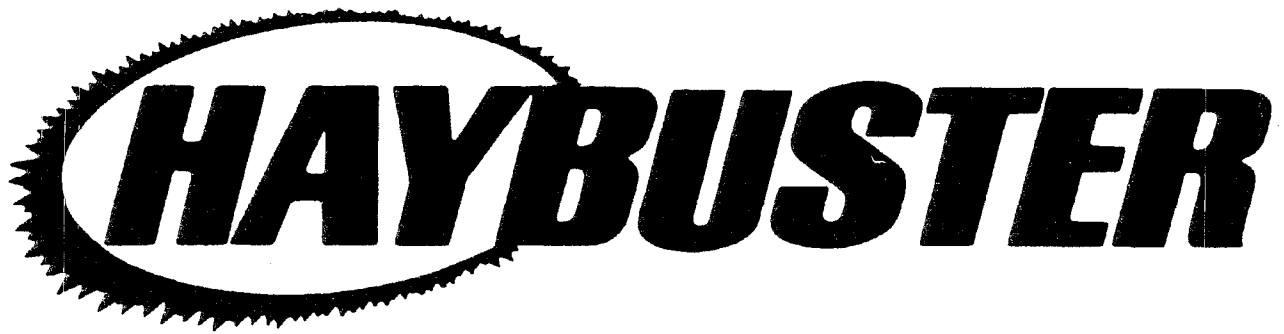
Care should be exercised when replacing only a few hammers and not the whole set. If one or more new hammers are inserted on a rod, the same number of new hammers should be inserted on rod directly across the cylinder. This will maintain a balanced cylinder for vibration free operation.

20 HAMMER SPACING



TROUBLE SHOOTING 21

Problem	Cause	Remedy
1. No grinding capacity	1. Screen plugged 2. Badly worn screens and/or hammers 3. Material too light or fluffy	1. Clean holes in screen 2. Replace or turn worn parts 3. Mix with heavier material
2. Tub slows down or turns slowly	1. Hydraulic speed control valve closed 2. Low hydraulic pressure 3. Governor not adjusted properly	1. Open valve 2. Tighten hydraulic pump drive belt 3. See (Governor adjustment)
3. Excessive vibration	1. Broken hammer 2. Defective cylinder bearing 3. Misaligned or worn PTO 4. Wire or foreign material wrapped in cylinder	1. See (Hammer replacement) 2. Replace bearing 3. Replace worn part or complete PTO 4. Remove material
4. Engine loses excessive RPM's before tub stops	1. Governor not adjusted properly	1. See (Governor adjustment)
5. Cylinder slugs	1. Slugbuster removed	1. Replace slugbuster



H-1100-E

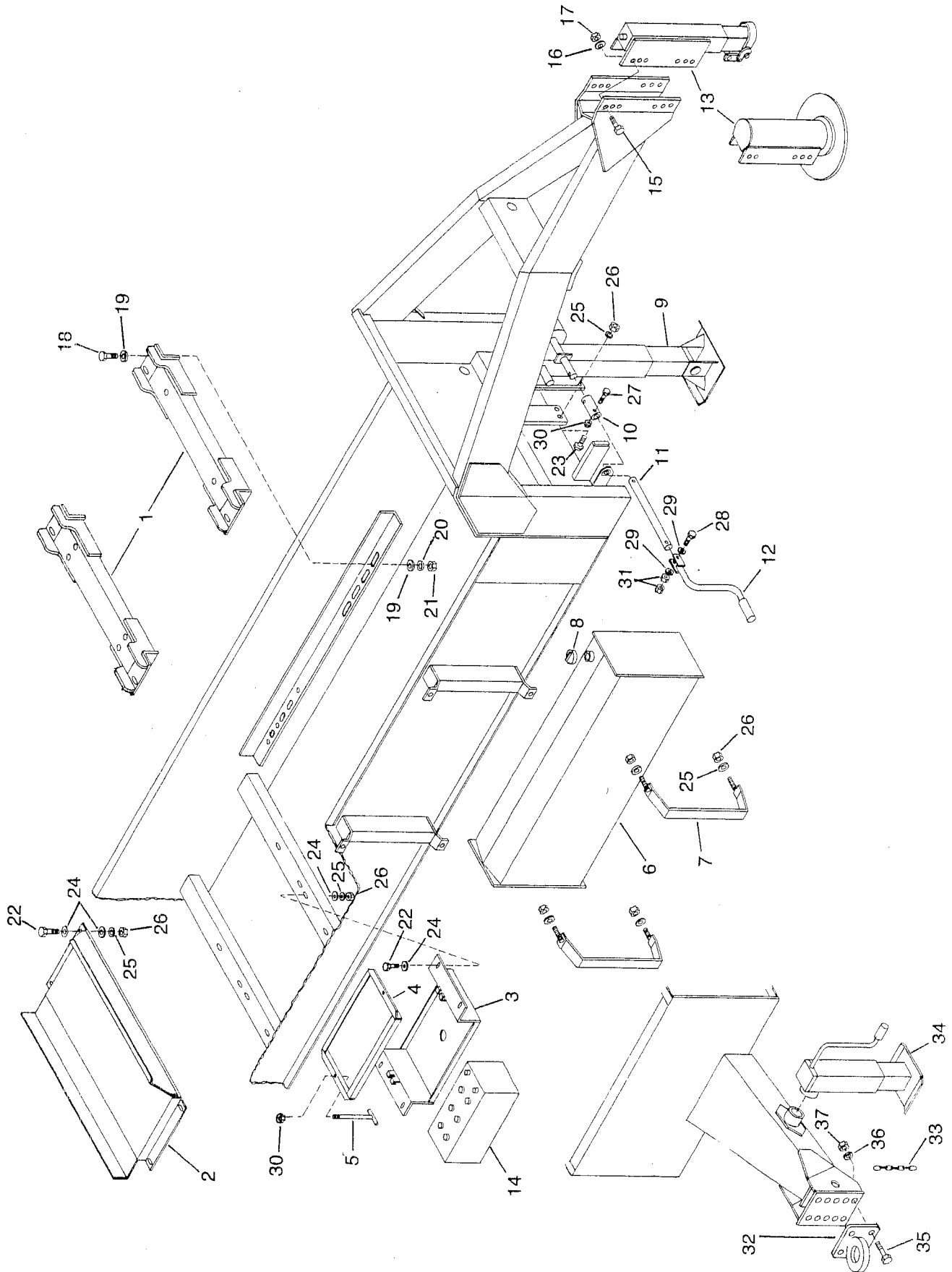
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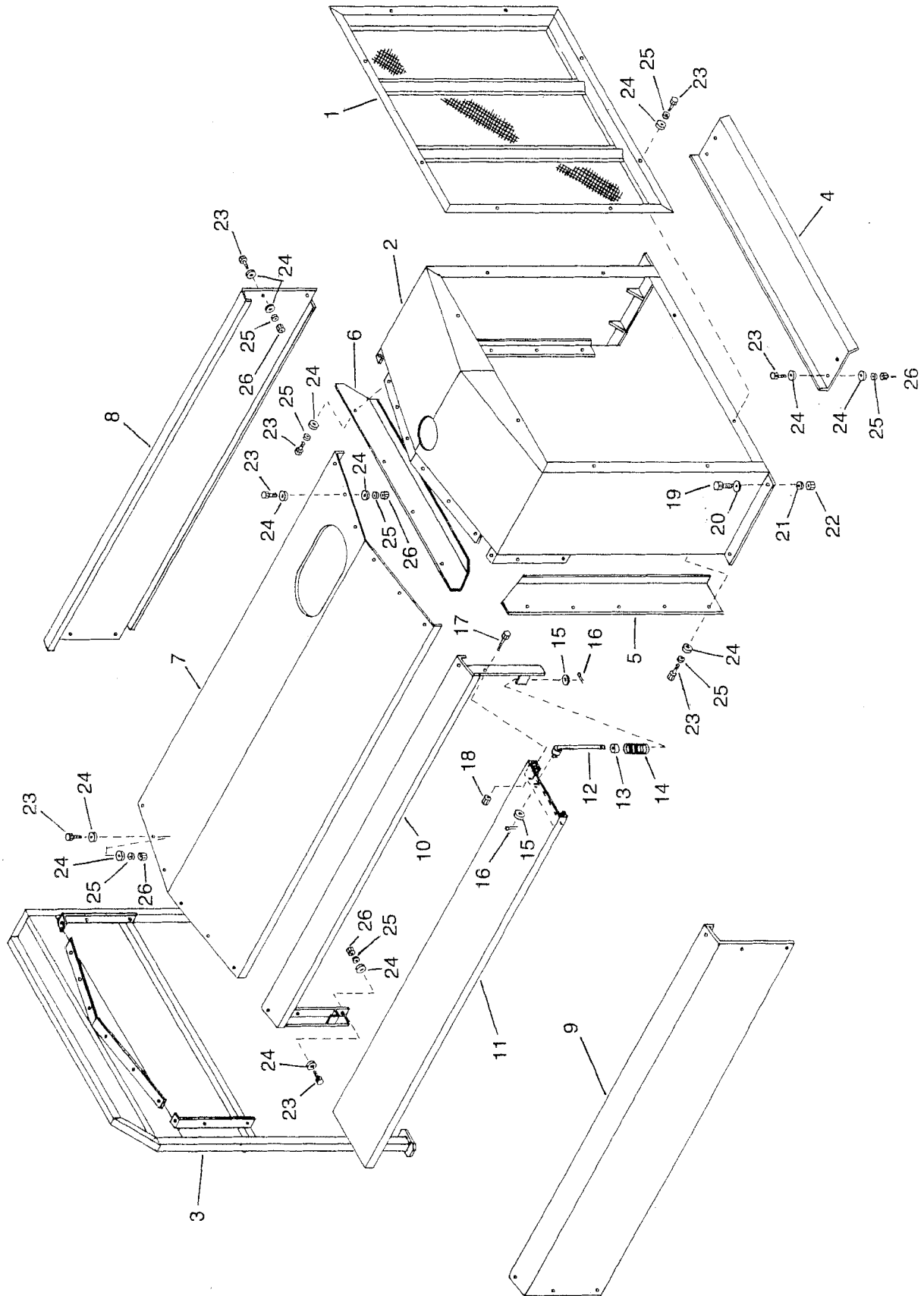


MAIN FRAME

25

ITEM	PART NO	QTY	DESCRIPTION
1	4500277	1	FRONT CAT ENG MOTOR MOUNT -274 H.P. CAT 3306B
	4500278	1	REAR CAT ENG MOTOR MOUNT -274 H.P. CAT 3306B
	4500279	2	MTR MNT CUMMINGS 177 H.P. CUMMINS 5BTA5.9-P
	4500280	2	BRKT\MNT\MTR\JD\270&300 JOHN DEERE 6076H-6619A-F00
	4500281	2	MTR MNT 234 H.P. CUMMINGS 5CTA8.3P
2	4500282	1	WALKWAY\H-1100E
3	4500283	1	BOX\BATT\H1100E\94
4	4500284	1	BRKT\BOX\BATT\H1100E\94
5	4500285	2	BOLT\TEE\BOX\BATT\H1100E
6	4500286	2	SADDLE TANK 84 GAL 72" LONG
7	4500287	4	STRAP\ANCHOR\TANK\H-1100E
8	7500226	2	CAP\FUEL
9	5800608	1	JACK\25000\TWO;SPEED\>
10	4500288	1	CPLR\SHFT\JACK\H11E
11	4500289	1	EXT\JACK\CRANK\1X17-1/4
12	5800609	1	JACK HANDLE 25,000 LG
13	4500290	1	HITCH\BALL\H1100E
	4500291	1	HITCH\5TH\WHEEL\H-1100E
14	5700002	1	BATT\12VDC\8D1150
15	4800283	4	BOLT\HEX\3/4X2-1/4
16	5000012	4	WASH\LOCK\3/4
17	4900004	4	NUT\HEX\3/4\NC
18	4800010	8	BOLT\HEX\5/8X2
19	5000002	16	WASH\FLAT\5/8
20	5000003	8	WASH\MACH\1-1/2IDX10GAINR
21	4900005	8	NUT\HEX\5/8\NC
22	4800082	8	BOLT\HEX\1/2X1-1/2\NC\GR5
23	4800178	4	BOLT\HEX\1/2X1-3/4
24	5000004	16	WASH\FLAT\1/2
25	5000006	20	WASH\LOCK\1/2
26	4900001	20	NUT\HEX\1/2\NC
27	4800146	2	BOLT\HEX\3/8X2
28	4800029	1	BOLT\HEX\3/8X2
29	5000001	2	WASH\FLAT\3/8
30	4900023	2	NUT\TPLCK\3/8\NC
31	4900002	2	NUT\HEX\3/8\NC
32	7500309	1	PINTLE HITCH 4 BOLT
33	1100165	1	CHAIN\5/16
34	5800605	1	JACK 13-10,000
35	4800271	4	BOLT\HEX\5/8X2-1/2\GR8
36	5000003	4	WASH\LOCK\5/8
37	4900070	4	NUT\HEX\5/8\GR8\NC
			FUEL TANK 100 GAL 86" LONG
38	4700365	4	MNT\TANK\SADDLE

26 ENGINE AND RADIATOR COVER

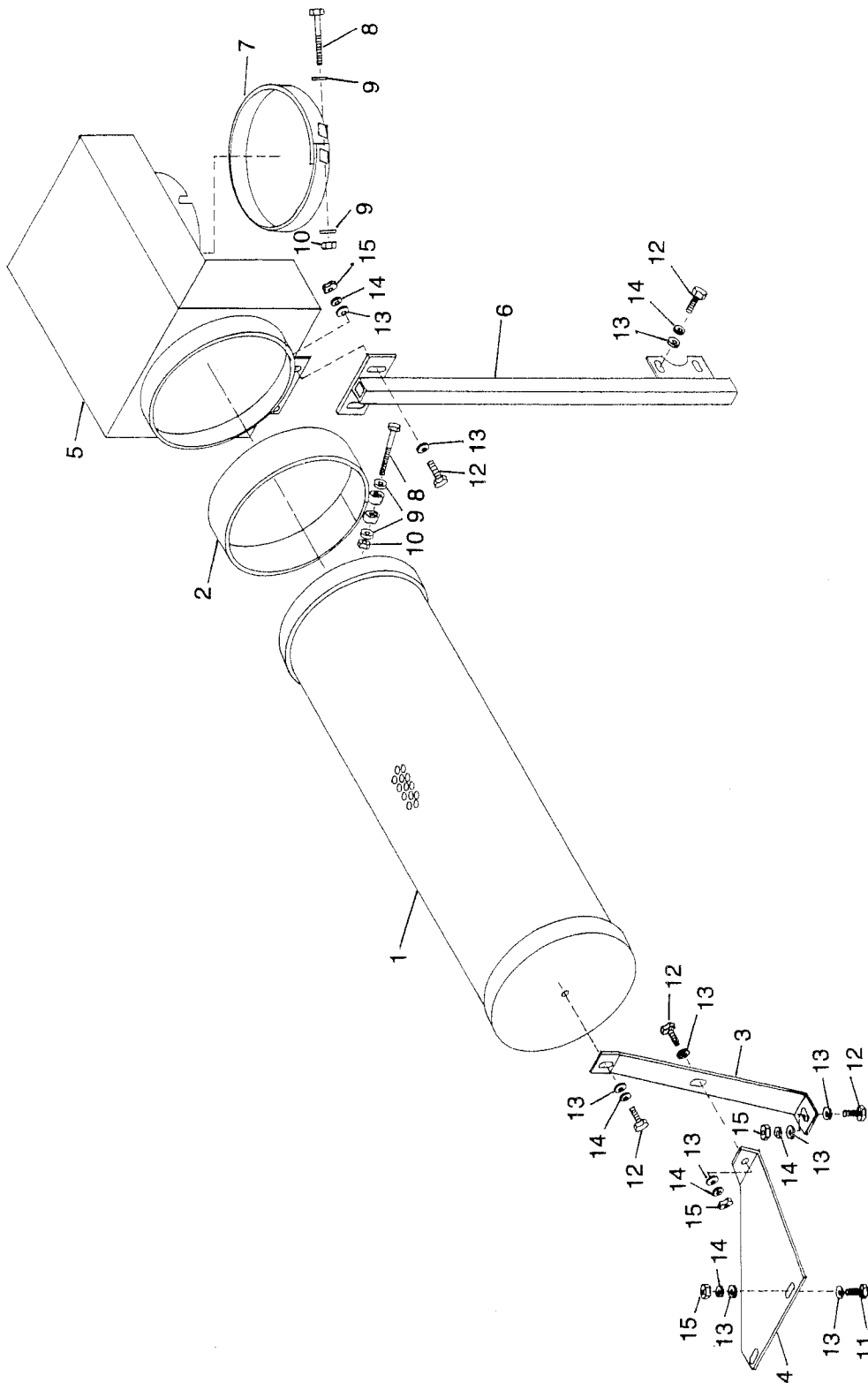


ENGINE & RADIATOR COVER

27

ITEM	PART NO	QTY	DESCRIPTION
1	4500292	1	SCRN\GRILLE\H-1100E
2	4500293	1	COWLING
3	4500294	1	HAND RAIL
4	4500295	1	FRONT FRAME COVER
5	4500296	2	SHLD\SIDE\RH\COWLING\H11E 260
5A	4500763	1	COWLING SIDE FIN\L.H. 260
6	4500297	1	COWLING SIDE FIN LH JD270
	4500298	1	COWLING SIDE FIN RH JD270
	4500299	1	COWLING SIDE FIN LH JD300
	4500300	1	COWLING SIDE FIN RH JD300
	4500301	1	COWLING TOP FIN CAT 260
	4500302	1	COWLING TOP FIN JD 270
	4500303	1	COWLING TOP FIN JD 300
7	4500304	1	HOOD CAT 260
	4500305	1	HOOD JD 270 HP
	4500306	1	HOOD JD 300 HP
8	4500307	1	HOOD SIDES LH CAT 260
	4500308	1	HOOD SIDES LH JD 270 300
9	4500309	1	HOOD SIDES RH CAT 260
10	4500310	1	HOOD MOUNT RH JD 270 300
11	4500311	1	HOOD SIDES RH JD 270 300
12	4500312	2	HOOD SPRING ROD JD 270300
13	2000810	2	CLLR\SHFT\7/16\SET
14	6100012	2	SPG\BGGR\SLIDE RETURN
15	5000016	4	WASH\FLAT\7/16
16	4800127	4	PIN\COT\1/8X1
17	4800156	2	BOLT\HEX\3/8X3
18	4900023	2	NUT\TPLCK\3/8\NC
19	4800018	4	BOLT\HEX\1/2X1-1/4
20	5000004	4	WASH\FLAT\1/2
21	5000006	4	WASH\LOCK\1/2
22	4900001	4	NUT\HEX\1/2\NC
23	4800003	50	BOLT\HEX\3/8X1
24	5000001	78	WASH\FLAT\3/8
25	5000019	28	WASH\LOCK\3/8
26	4900002	28	NUT\HEX\3/8\NC
	0900118	1	RAD\ATLAS\CAT\3406\FEEDLOT
	M120418	CALL	JOHN DEERE-MUFFLER

28 AIR INTAKE SCREEN, CATERPILLAR 260 HP

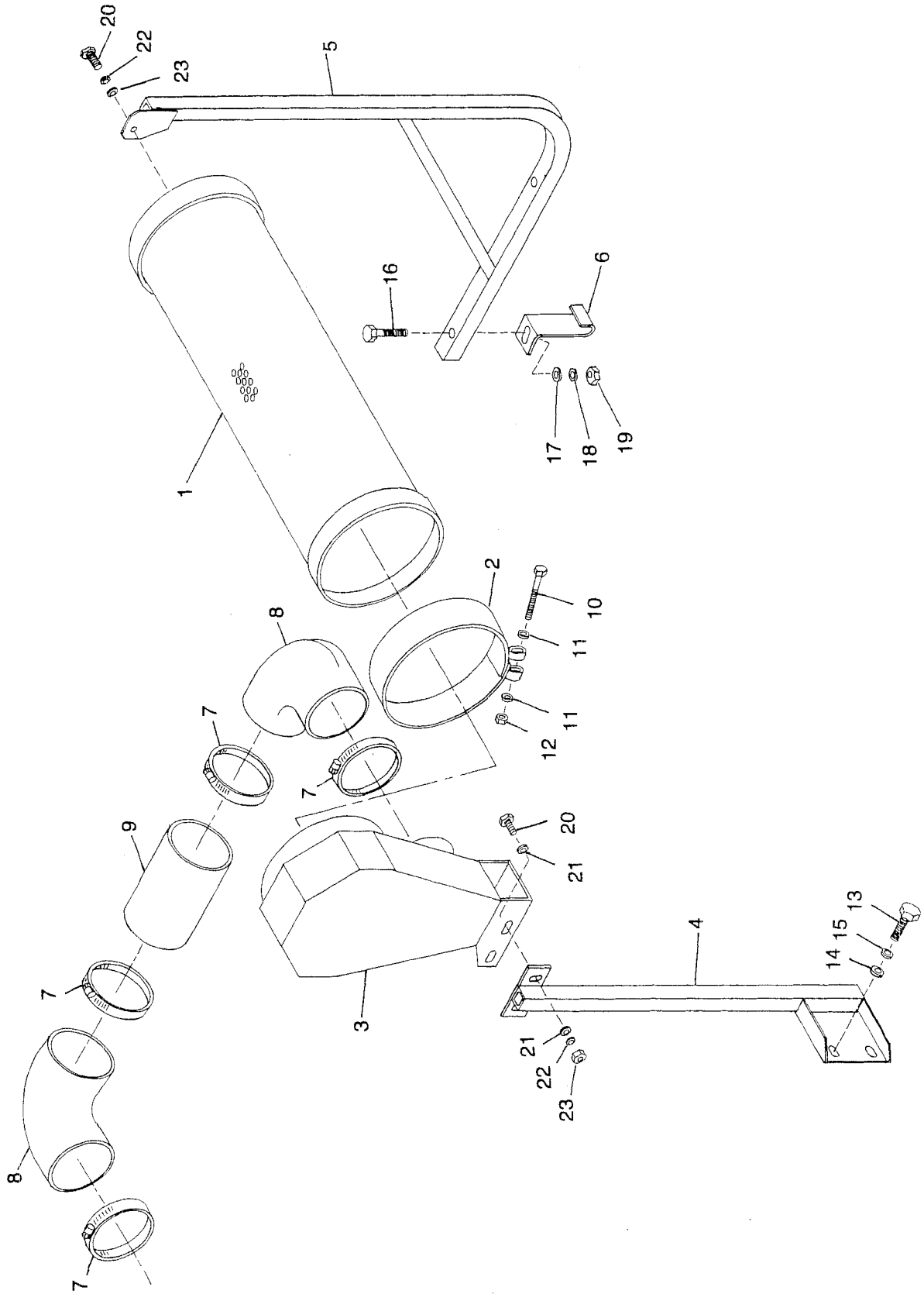


AIR INTAKE SCREEN, CAT. 260HP

29

ITEM	PART NO	QTY	DESCRIPTION
1	4500313	1	AIR INTAKE SCREEN
2	4500314	1	CLAMP\SCREEN\AIR\H1100E
3	4500315	1	SCRN SUP CAT 260
4	4500316	1	SCRN SUP MNT BRKT
5	4500317	1	ELBOW CAT 260
6	4500318	1	ELBOW SUPPORT BRACKET 260
7	4500319	1	ELBOW CLAMP CAT 260
8	4800219	2	BOLT\HEX\5/16X4
9	5000023	4	WASH\FLAT\5/16
10	4900099	2	NUT\TPLCK\5/16\GR8\NC
11	4800003	2	BOLT\HEX\3/8X1
12	4800098	7	BOLT\HEX\3/8X1-1/4\NC
13	5000001	15	WASH\FLAT\3/8
14	5000019	8	WASH\LOCK\3/8
15	4900002	8	NUT\HEX\3/8\NC

30 AIR INTAKE SCREEN, JD 270 HP

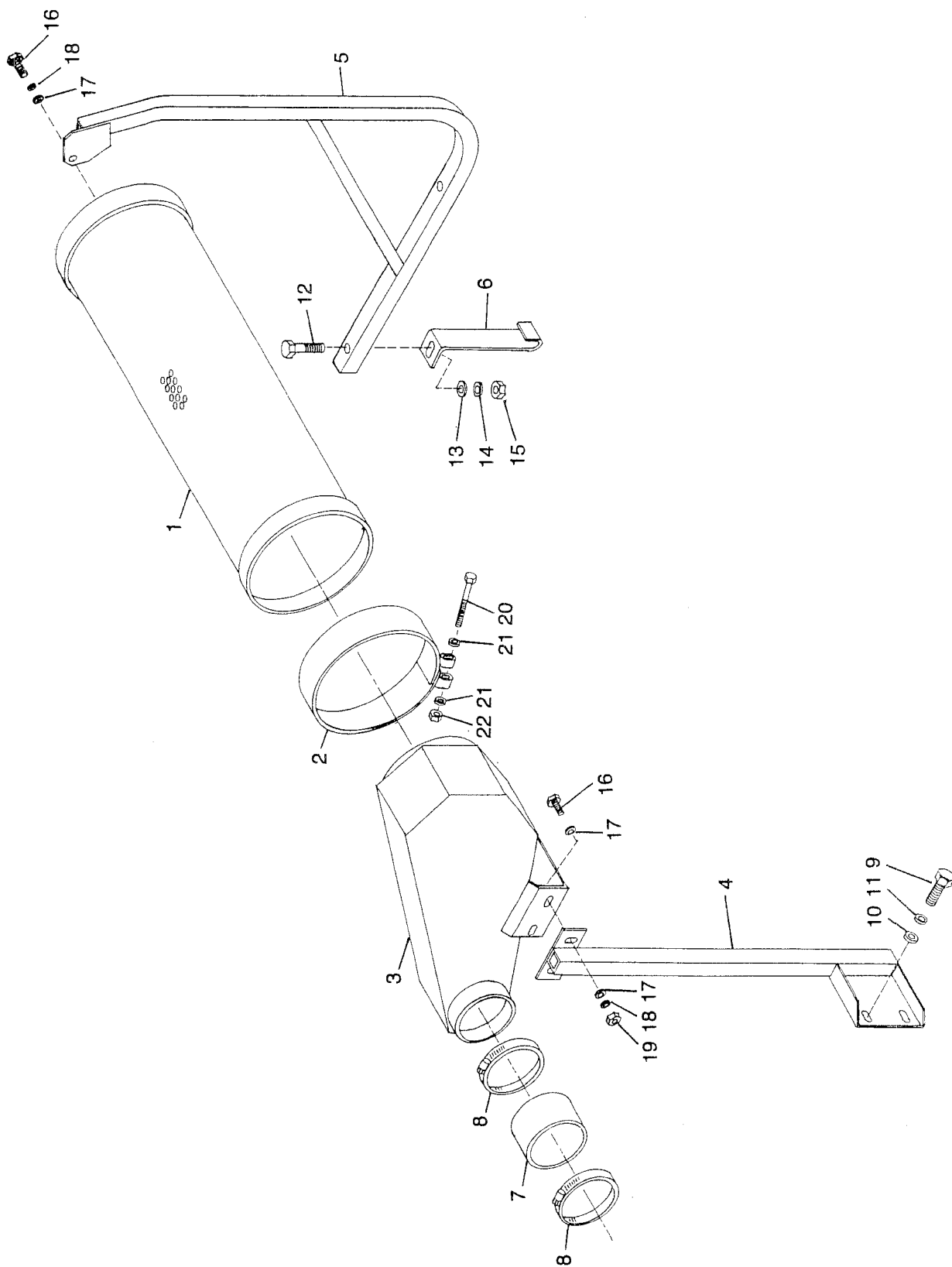


AIR INTAKE SCREEN, JD 270

31

ITEM	PART NO	QTY	DESCRIPTION
1	4500313	1	AIR INTAKE SCREEN
2	4500314	1	CLAMP\SCREEN\AIR\H1100E
3	4500320	1	ELBOW JD 270
4	4500321	1	ELB SUPPORT BRACK JD 270
5	4500322	1	SCRN SUP JD270
6	4700316	2	MOUNTING HOOK JD 270
7	7500302	4	CLAMP\HOSE\#88\5-1/2
8	7500301	2	ELBOW\RBRR\5"
9	4500324	1	PIPE 5" OD X 8"
10	4800219	1	BOLT\HEX\5/16X4
11	5000023	2	WASH\FLAT\5/16
12	4900011	1	NUT\TPLCK\5/16\GR8\NC
13	4800070	2	BOLT\HEX\1/2X2-1/2
14	5000002	2	WASH\FLAT\5/8
15	5000003	2	WASH\LOCK\5/8
16	4800068	2	BOLT\HEX\1/2X3
17	5000004	2	WASH\FLAT\1/2
18	5000006	2	WASH\LOCK\1/2
19	4900001	2	NUT\HEX\1/2\NC
20	4800098	3	BOLT\HEX\3/8X1-1/4\NC
21	5000001	5	WASH\FLAT\3/8
22	5000019	3	WASH\LOCK\3/8
23	4900002	2	NUT\HEX\3/8\NC

32 AIR INTAKE SCREEN, JD 300



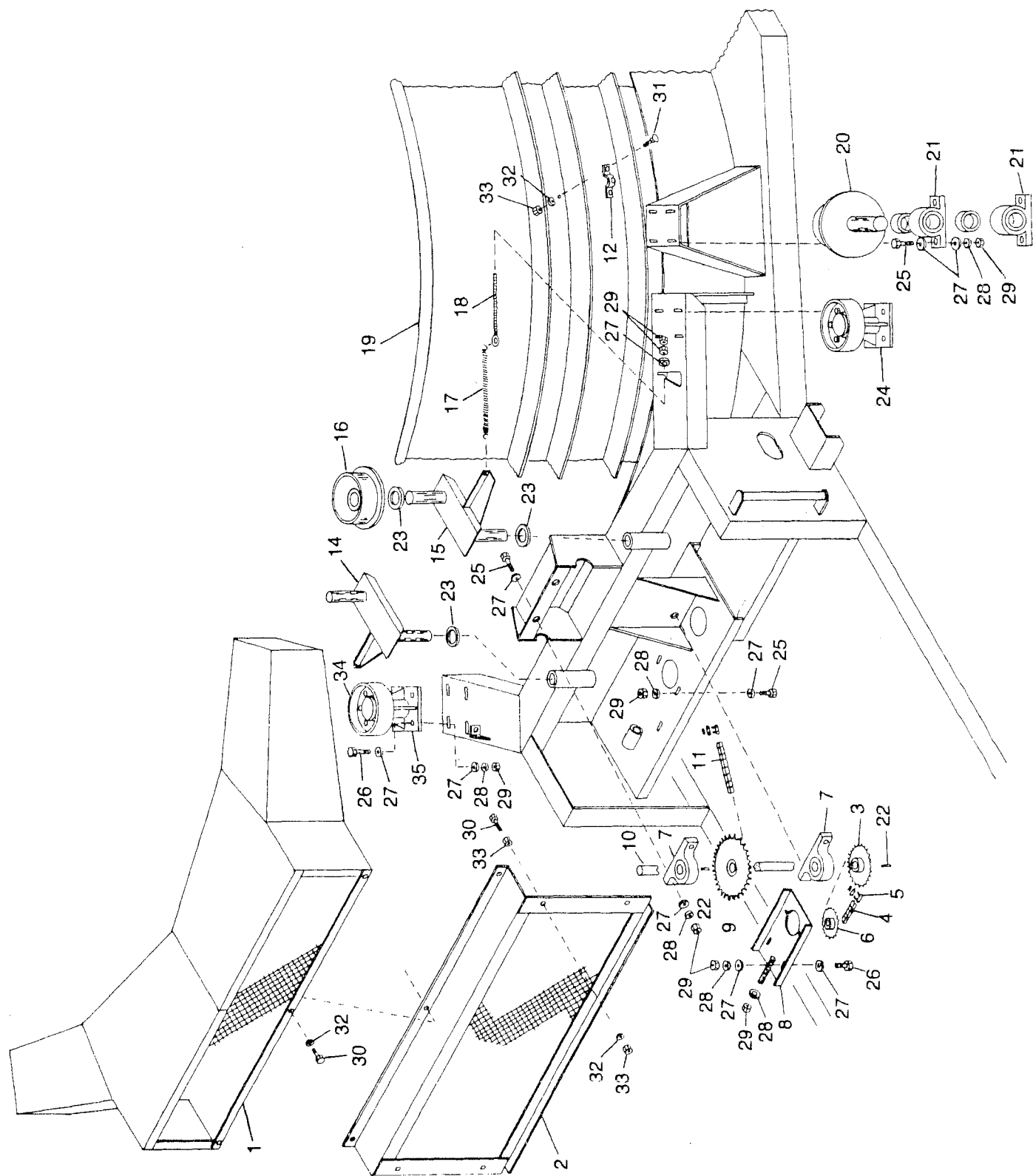
AIR INTAKE SCREEN, JD 300

33

ITEM	PART NO	QTY	DESCRIPTION
1	4500313	1	AIR INTAKE SCREEN
2	4500314	1	CLAMP\SCREEN\AIR\H1100E
3	4500325	1	ELBOW JD300
4	4500326	1	ELBOW SUPPORT BRKT JD300
5	4500327	1	SCRN SUP JD300
6	4500328	2	MTG HOOK JD300
7	7500303	1	HOSE\RUBBER\5X3"LONG
8	7500302	2	CLAMP\HOSE\#88\5-1/2
9	4800070	2	BOLT\HEX\1/2X2-1/2
10	5000002	2	WASH\FLAT\5/8
11	5000003	2	WASH\LOCK\5/8
12	4800068	2	BOLT\HEX\1/2X3
13	5000004	2	WASH\FLAT\1/2
14	5000006	2	WASH\LOCK\1/2
15	4900001	2	NUT\HEX\1/2\NC
16	4800098	3	BOLT\HEX\3/8X1-1/4\NC
17	5000001	5	WASH\FLAT\3/8
18	5000019	3	WASH\LOCK\3/8
19	4900002	2	NUT\HEX\3/8\NC
20	4800219	1	BOLT\HEX\5/16X4
21	5000023	2	WASH\FLAT\5/16
22	4900001	1	NUT\HEX\1/2\NC

34 TUB DECK DRIVE

Serial No. 0001 Thru 0022



TUB DECK DRIVE

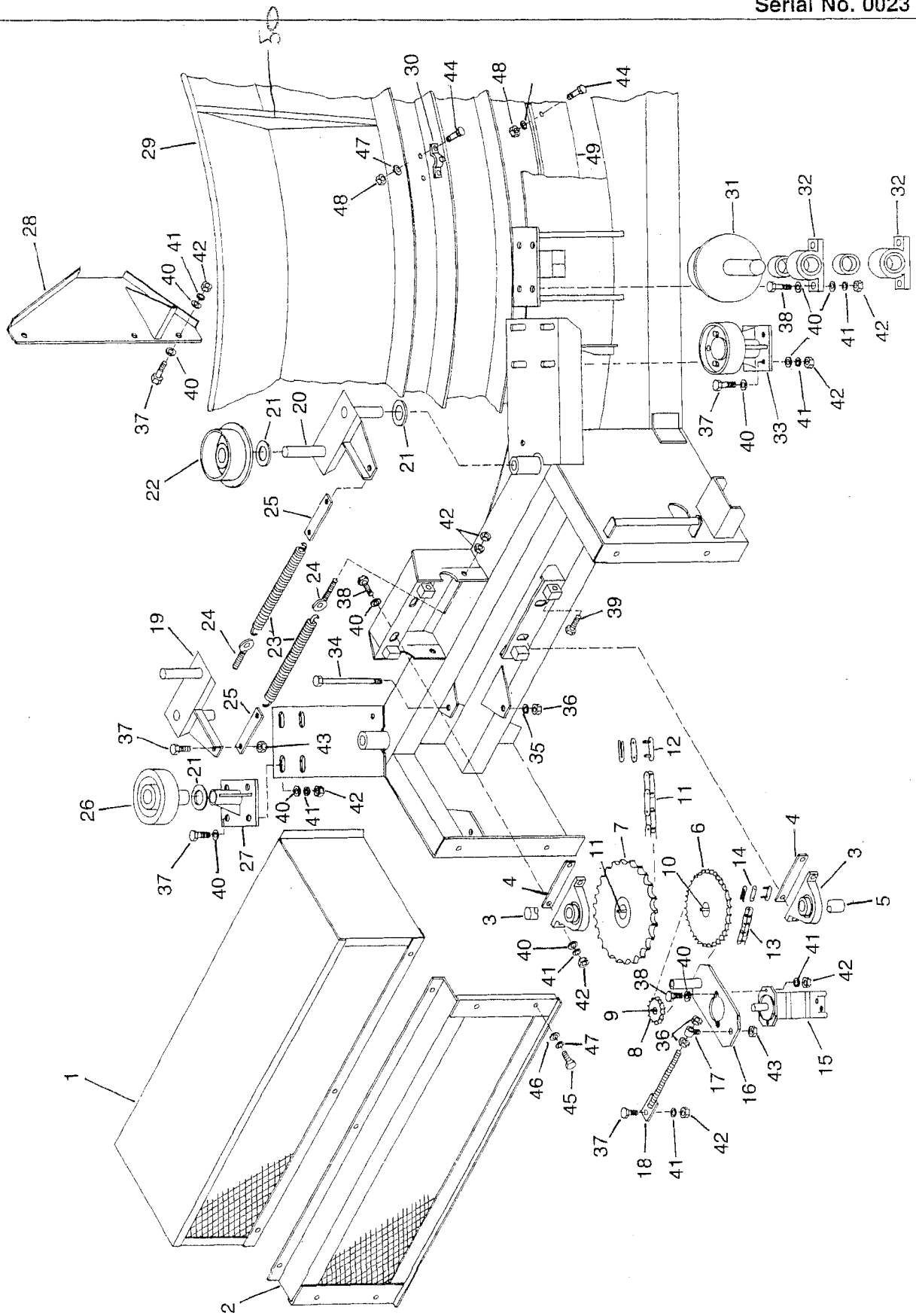
SERIAL # 0001 THRU 0022

35

ITEM	PART NO	QTY	DESCRIPTION
1	4500402	1	SHLD\DR\TUB\UPPER\H1100E
2	4500403	1	LOWER TUB DRIVE SHIELD
3	1000033	1	SPKT\60\B\30\1-1/4\1/4KW
4	1100088	1	CHAIN\60\43
5	1100062	1	CHAIN\60\CL
6	1000134	1	SPKT\60\B\12\1-1/4\5/16KW
7	2000502	2	BRG\PB\1-1/4
8	4500048	1	TGHTR\ORBIT\H-1100
9	1000077	1	SPKT\80\B\30\1-1/4\1/4KW
10	2400027	1	SHFT\TUB_DR\1-1/4X27-1/4
11	1100075	1	CHAIN\2080\177+CL
12	4700023	3	KNOBS\TUB\H-1000
13			
14	4500336	1	BRKT\ARM\SWING\RH
15	4500337	1	BRKT\ARM\SWING\LH
16	1200007	2	RLLR\#6
17	6100001	2	SPRING.156OT 63/64OD13LIH
18	4500197	2	BOLT\TENSION\SPRING\>
19	4500085	1	TUB\WLDMNT\H1100
20	4500972	4	RLLR\TUB\#2
21	2000501	8	BRG\PB\1-1/2\2BOLT
22	6200014	2	KEY\SQ\1/4X1-1/4
23	5000008	5	WASH\MACH\1-1/2IDX10GAINR
24			PRESSURE ROLLER (REFER TO PAGE 64)
25	4800114	22	BOLT\HEX\1/2X2
26	4800082	12	BOLT\HEX\1/2X1-1/2\NC\GR5
27	5000004	68	WASH\FLAT\1/2
28	5000006	34	WASH\LOCK\1/2
29	4800001	38	NUT\HEX\1/2\NC
30	4800098	9	BOLT\HEX\3/8X1-1/4\NC
31	4800012	6	BOLT\CRG\3/8X1-1/4\NC
32	5000019	15	WASH\LOCK\3/8
33	4900002	14	NUT\HEX\3/8\NC
34	1200008	1	RLLR\PRSS\#5
35	1200005	1	RLLR\STND\#44
36	4500086	1	AGTTR\TUB\10
37	4500250	1	AGTTR\TUB\14"

36 TUB DECK DRIVE

Serial No. 0023 Thru



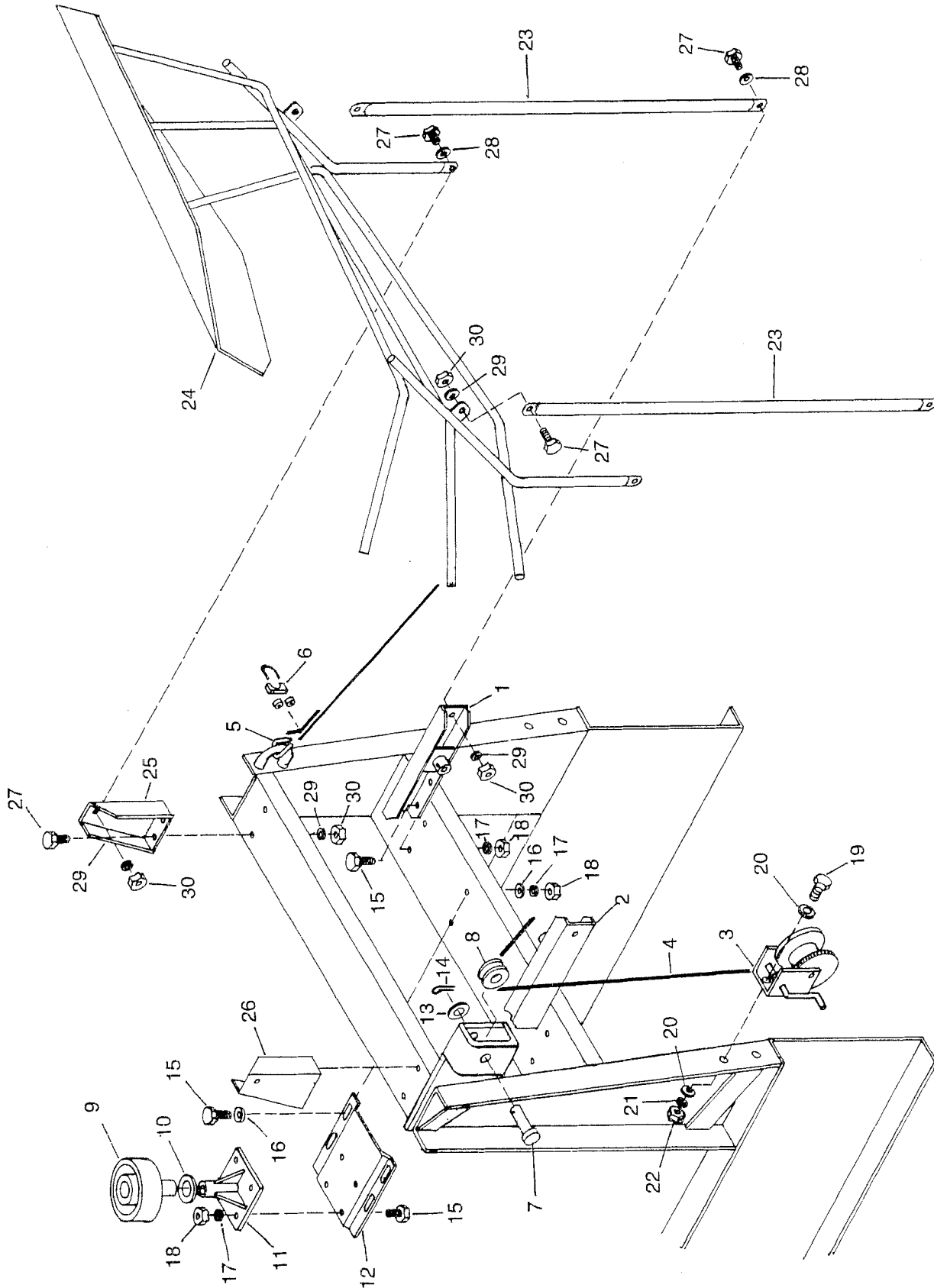
TUB DECK DRIVE

SERIAL # 0023 - FI 0118

37

ITEM	PART NO	QTY	DESCRIPTION
1	4500329	1	GUARD\TUBDR\TOP
2	4500330	1	SHLD\DR\TUB\LWR\H1100E
3	2000502	2	BRG\PB\1-1/4
4	4500692	6	SHIM\BRG\TUB\DR\10GAX2X7>
5	4500491	1	SHFT\TUB-DR\1-1/4X20-3/4
6	1000033	1	SPKT\60\B\30\1-1/4\1/4KW
7	1000077	1	SPKT\80\B\30\1-1/4\1/4KW
8	1000134	1	SPKT\60\B\12\1-1/4\5/16KW
9	6200004	1	KEY\SQ\5/16X1-1/2
10	6200014	2	KEY\SQ\1/4X1-1/4
11	1100075	1	CHAIN\2080\177+CL
12	1100070	1	CHAIN\2080H\CL
13	1100088	1	CHAIN\60\43
14	1100062	1	CHAIN\60\CL
15	3900005	1	MTR\HYD\14.9\2000\SAE;A\>
16	4500333	1	BRKT\ARM\ORBIT MOTOR
17	4500334	1	BRKT\BOLT\TIGTNER
18	4500335	1	BOLT\TIGHTNER\ORBIT\MOTOR
19	4500336	1	BRKT\ARM\SWING\RH
20	4500337	1	BRKT\ARM\SWING\LH
21	5000008	5	WASH\MACH\1-1/2IDX10GAINR
22	1200007	2	RLLR\#6
23	6100001	2	SPRING.156OT 63/64OD13LIH
24	4500338	2	BOLT\TENSION\SPG\H1100E
25	4500331	2	LINK\SPG\1/4X6-1/4
28	4500400	1	FIN\TUB\10"\LH\H-1100E
28A	4500401	1	FIN\TUB\14"\LH\H-1100E
29	4500085	1	TUB\WLDMNT\H1100
30	4700023	3	KNOBS\TUB\H-1000
31	4500972	4	RLLR\TUB\#2
32	2000501	8	BRG\PB\1-1/2\2BOLT
33	4500247	2	RLLR\PRESS\COMPL
34	4800261	1	BOLT\HEX\5/8X8-1/2
35	5000003	1	WASH\LOCK\5/8
36	4900005	3	NUT\HEX\5/8\NC
37	4800082	16	BOLT\HEX\1/2X1-1/2\NC\GR5
38	4800114	22	BOLT\HEX\1/2X2
39	4800251	2	BOLT\HEX\1/2X2-1/4\NC
40	5000004	72	WASH\FLAT\1/2
41	5000006	38	WASH\LOCK\1/2
42	4900001	40	NUT\HEX\1/2\NC
43	4900014	4	NUT\TPLCK\1/2\NC\500"MAX
44	4800012	28	BOLT\CRG\3/8X1-1/4\NC
45	4800098	9	BOLT\HEX\3/8X1-1/4\NC
46	5000001	11	WASH\FLAT\3/8
47	5000019	37	WASH\LOCK\3/8
48	4900002	28	NUT\HEX\3/8\NC
49	4500116	1	SEAL\TUB\BELT\5"X28.5'
50	4500212	8	GSST\TUB\H1100

38 CONVEYOR WINCH & HANGER - HAY GUIDE

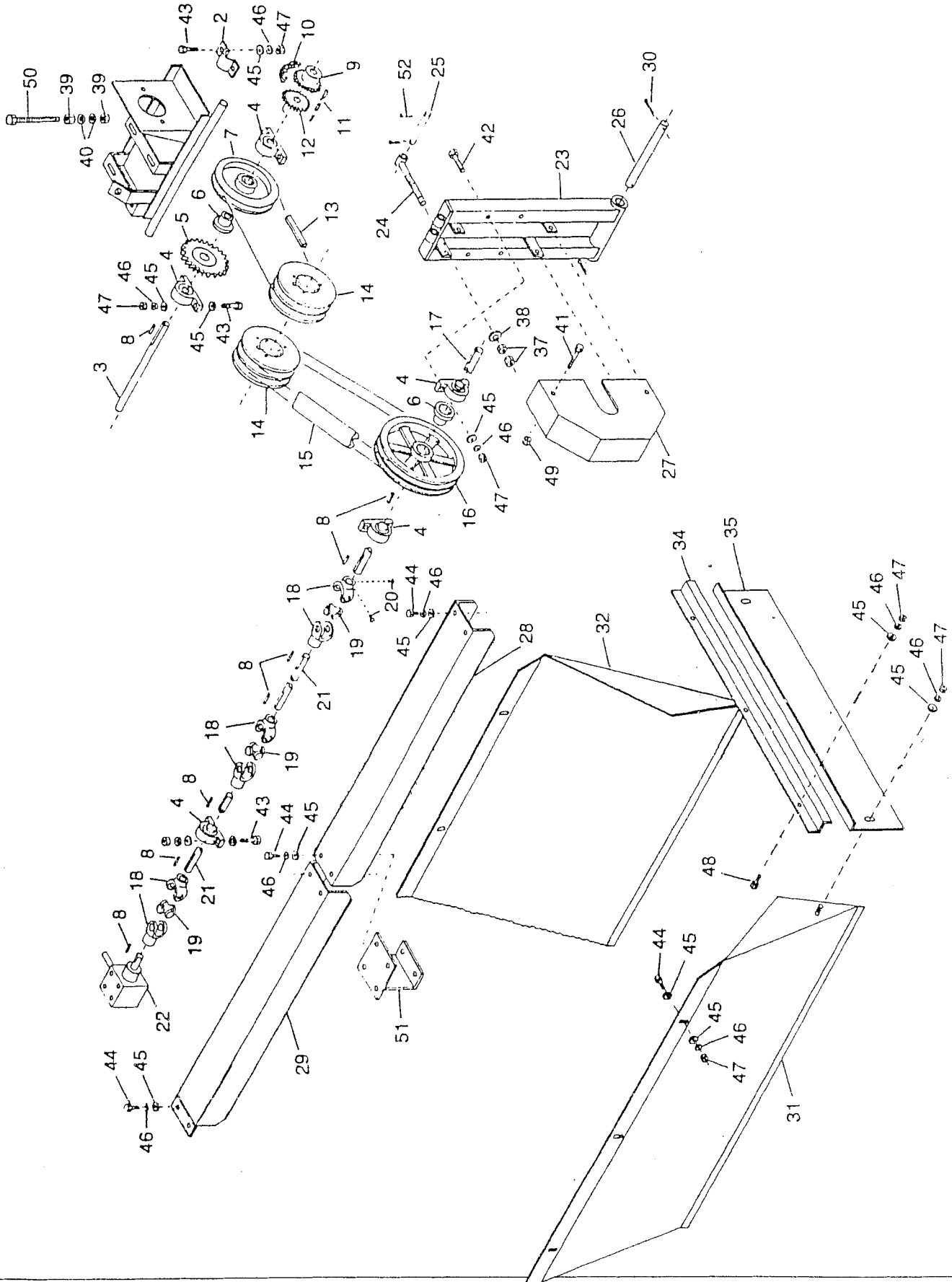


CONVYOR WINCH & HANGER-HAY GUIDE

39

ITEM	PART NO	QTY	DESCRIPTION
1	4500545	1	BRKT\SUP\LWR\CNVYR\H1000
2	4500545	1	BRKT\SUP\LWR\CNVYR\H1000
3	5800008	NA	WINCH
4	5800309	1	CABLE\1/4"X32'
5	7500121	1	1/4" CABLE THIMBLE
6	4800027	2	CLAMP\CBL\1/4
7	4800026	1	PIN\SLV\5/8X2\W\KEY
8	1400082	1	SHVE\CBL\W\BRG
9	1200008	1	RLLR\PRSS\#5
10	5000008	1	WASH\MACH\1-1/2IDX10GAINR
11	1200006	1	BRKT\RLLR\PRSS
12	4500104	1	BRKT\RLLR\PRESSURE
13	5000002	1	WASH\FLAT\5/8
14	4800123	1	PIN\COT\1/8X1-1/2
15	4800114	12	BOLT\HEX\1/2X2
16	5000004	8	WASH\FLAT\1/2
17	5000006	12	WASH\LOCK\1/2
18	4900001	12	NUT\HEX\1/2\NC
19	4800003	2	BOLT\HEX\3/8X1
20	5000001	2	WASH\FLAT\3/8
21	5000019	2	WASH\LOCK\3/8
22	4900002	2	NUT\HEX\3/8\NC
HAY GUIDE (OPTIONAL)			
23	4500099	1	BRACE\HAYGUIDE\51"
24	4500339	1	GUIDE\HAY\LH\H1100E&AG-12
25	4500101	1	BRKT\HAYGUIDE\TOP\RH
26	4500100	1	BRKT\HAYGUIDE\TOP\LH
27	4800114	10	BOLT\HEX\1/2X2
28	5000004	4	WASH\FLAT\1/2
29	5000006	10	WASH\LOCK\1/2
30	4900001	10	NUT\HEX\1/2\NC
	4500498		COMPLETE LOOSE HAY RACK
	5800016		12 VOLT WINCH SA9005 ELECTRIC
	5800025		SWITCH WINCH D&L 206007

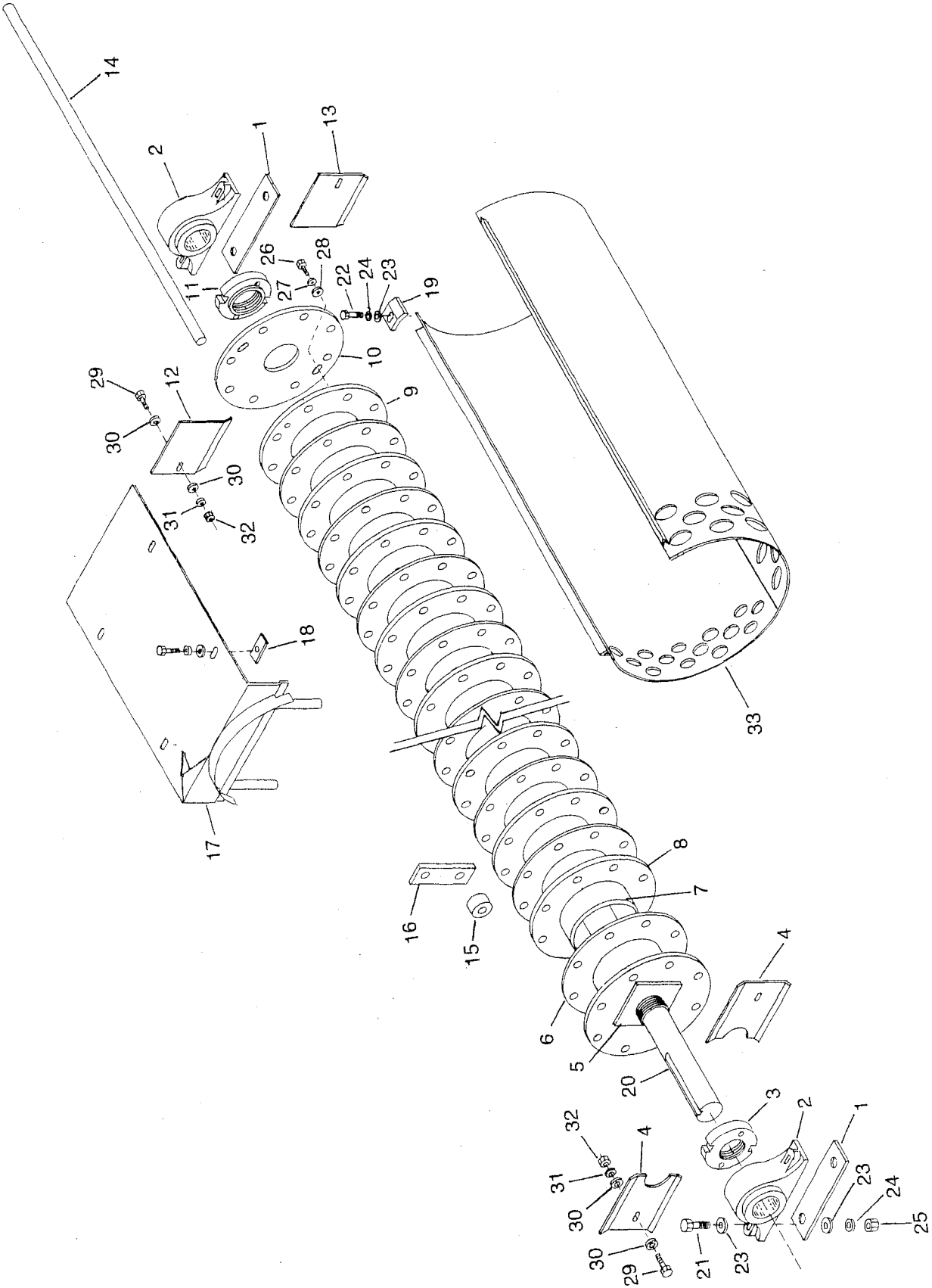
40 CONVEYOR DRIVE SYSTEM



CONVEYOR DRIVE SYSTEM 41

ITEM	PART NO	QTY	DESCRIPTION				
1	4500340	1	PUMP BRACKET L H	48	4900032	3	NUTWING\3/8\NC
2	4500070	1	CLAMP\IG-10\IG-11	49	4900023	2	NUT\TPLCK\3/8\NC
3	4500703	1	SHFT\DR\PUMP\1X10-1/2	50	4800191	1	BOLT\WLDD\1/2X6
4	2000503	5	BRG\PB\1	51	4500437	1	CNVYR DR. SHIELD MT
5	1000090	1	SPKT\50\B\24\1\1/4KW	52	4800123	2	PIN\COT\1/8X1-1/2
6	1400503	2	BUSH\H\1		4500794	1	GUIDE\RH\CNVYR\MATL\REAR
7	1400003	1	SHVE\B\7.2		4500795	1	GUIDE\LH\CNVYR\MATL\REAR
8	6200014	8	KEY\SQ\1/4X1-1/4		6200048		KEY\RECT\1/2X3/4X4
9	1000028	1	SPKT\50\B\14\3/4\3/16KW				
10	1100026	1	CHAIN\50DBL\13				
11	1100099	1	CHAIN\50DBL\CL				
12	1000029	2	SPKT\50\B\14\1\1/4KW\HRN				
13	1600020	1	V-BELT\BX\46\CGGD				
14	1400037	2	SHVE\B-2\5.6\3"BORE\3/4KEY				
15	1600049	1	V-BELT\B-2\75				
16	1400046	1	SHVE\2B\10.\2BK100H				
17	4500492	1	SHFT\1"X9"\H-1100E				
18	3600103	9	#6 RW1" YOKE				
19	3600008	9	#6 CROSS & BEARING KIT				
20	4800143	12	SCR\SET\ALN\3/8X3/8\NC				
21	4500493	2	SHFT\1X38-7/8				
22	3100187	1	GRBX\RTANGLE\1:1\OPPOSING				
23	4500341	1	FRM\DR\CNVYR\H1100E				
24	4500342	1	BOLT\ADJ\H-1100E				
25	4800360	1	PIN\5/8X5\H-1100E				
26	4800285	1	PIN\SUP\1X8-1/2\H-1100E				
27	4500343	1	SHLD\CNVYR\FR\DR\H1000				
28	4500344	1	SHLD\DR\CNVYR\H-1100E				
29	4500345	1	REAR CONV DRIVE SHIELD				
30	4800050	2	PIN\COT\3/16X1-1/2				
31	4500346	1	PANEL\SIDE\RH\H1100E				
32	4500347	1	PANEL\SIDE\RH\H1100E				
34	4700340	1	RETAINER\CNVYR\DR>				
35	4700382	1	CLOSURE\BELLY\PAN\FR>				
37	4900005	2	NUT\HEX\5/8\NC				
38	5000002	1	WASH\FLAT\5/8				
39	4900001	2	NUT\HEX\1/2\NC				
40	5000004	2	WASH\FLAT\1/2				
41	4800089	2	BOLT\HEX\3/8X4				
42	4800156	4	BOLT\HEX\3/8X3				
43	4800034	10	BOLT\HEX\3/8X1-1/2				
44	4800003	14	BOLT\HEX\3/8X1				
45	5000001	45	WASH\FLAT\3/8				
46	5000019	31	WASH\LOCK\3/8				
47	4900002	23	NUT\HEX\3/8\NC				

42 CYLINDER (3-1/2" SHAFT)



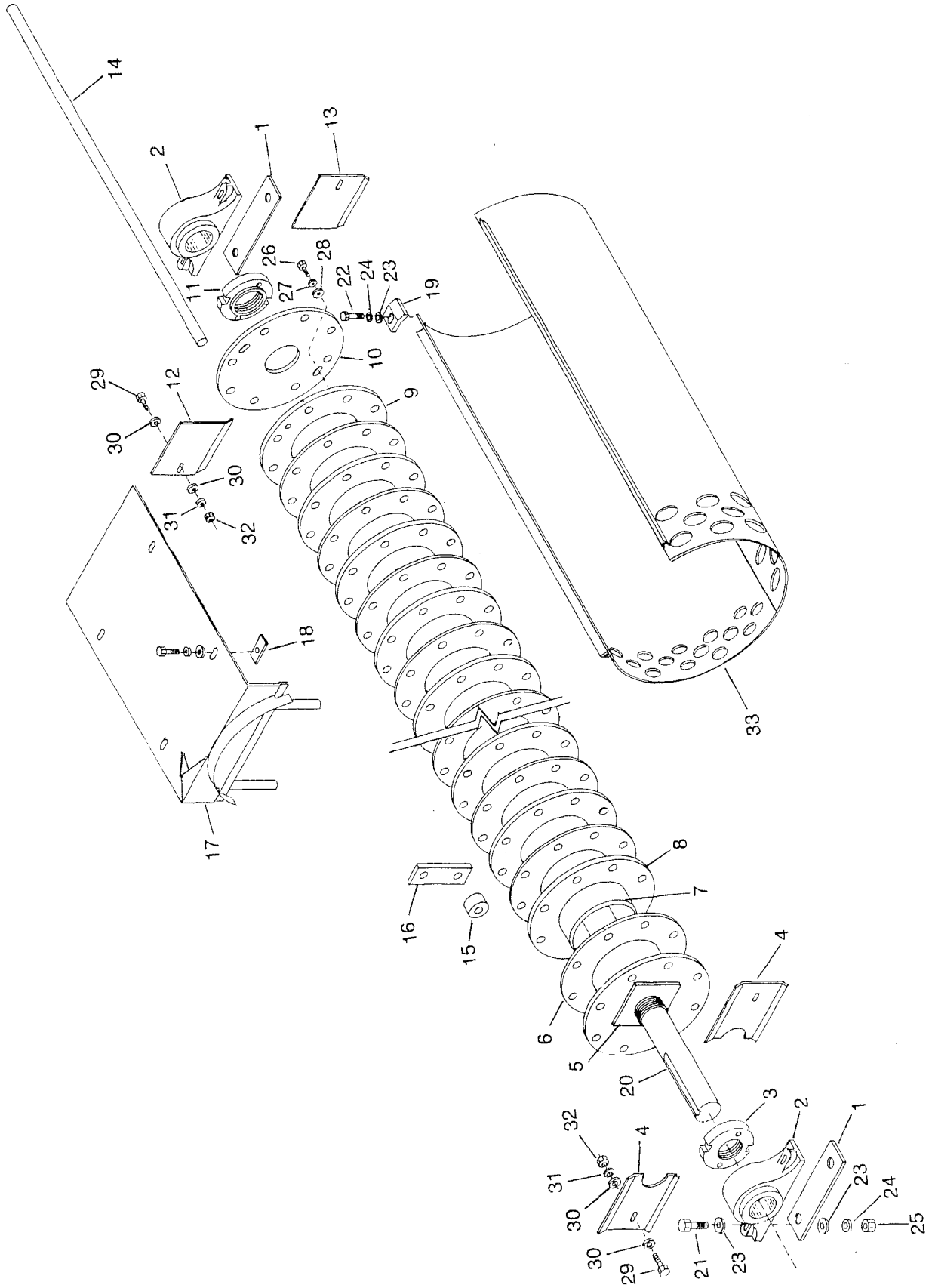
CYLINDER (3-1/2") SHAFT

SERIAL NUMBER 0001-0092

43

ITEM	PART NO	QTY	DESCRIPTION		
1	4500097	4	SHIM\BRG\3/16X3X11-3/4		
2	2000512	2	BRG\PB\3\E\DODGE	4500413	RTR\RBLT\50X15/16RD
3	4500142	1	NUT\RTR\3-1/2 W/O SHLDR		H1100E\3.5X72SFT\3.0BRG
4	4500537	2	COVER\RTR\BRG\FRONT	4500412	RTR\NEW\50X15/16RD
5	4500253	2	WASH\THRST\3-1/8IDX6SQ		H1100E\3.5X72SFT\3.0BRG
6	4500505	1	PL\RTR\END\SLUGS\3-1/2ID>		NO RODS,HAMMERS, BRG
7	4500348	16	SPCR\RTR\8"ODX1.878		3 1/2" SHAFT STEPPED ON DRIVE END
	4500149	6	SPCR\CAST\8.645ODX3.5IDX2		
8	4500349	16	1/2 CYL PLATE GROOVED		
	4500350	6	PL\RTR\1/2X3-1/2ID\FACED		
9	4500506	1	PL\RTR\END\TPPD\3-1/2ID>		
10	4500019	1	PL\RTR\MOVEABLE\5.32IDX>		
11	4500146	1	NUT\RTR\3-1/2 W/SHOULDER		
12	4500144	1	DOOR\RTR\REAR RH		
13	4500145	1	DOOR\RTR\REAR LH		
14	5300019	8	ROD\HMMR\15/16X50		
15	4500248	40	SPCR\HMMR\1IDX1-1/2ODX1L		
16	5200002	88	3/8" AB SUPREME HAMMER		
17	4500719	1	COV\BRG\RTR\W/HAYGUIDE		
18	4500717	4	CLIP\TAPPED\3/8X1-1/2X3		
19	4500251	2	HOLD DOWN\SCRN\NOTCHED		
20	4500482	1	SHFT\RTR\3-1/2X72\H1100		
21	4800100	4	BOLT\HEX\5/8X4		
22	4800054	2	BOLT\HEX\5/8X3-1/2		
23	5000002	10	WASH\FLAT\5/8		
24	5000003	6	WASH\LOCK\5/8		
25	4900005	6	NUT\HEX\5/8\NC		
26	4800085	2	BOLT\HEX\1/2X1		
27	5000004	2	WASH\FLAT\1/2		
28	5000006	2	WASH\LOCK\1/2		
29	4800003	8	BOLT\HEX\3/8X1		
30	5000001	12	WASH\FLAT\3/8		
31	5000019	8	WASH\LOCK\3/8		
32	4900002	8	NUT\HEX\3/8\NC		
33	5400095		SCRN\1/8HL\1/4\H1100		
	5400074		SCRN\3/16HL\1/4\H1100		
	5400052		SCRN\1/4HL\1/4\H1100		
	5400053		SCRN\3/8HL\1/4\H1100		
	5400054		SCRN\1/2HL\1/4\H1100		
	5400055		SCRN\5/8HL\1/4\H1100		
	5400056		SCRN\3/4HL\1/4\H1100		
	5400049		SCRN\1HL\1/4\H1100		
	5400050		SCRN\2HL\1/4\H1100		
	5400051		SCRN\3HL\1/4\H1100		
	5400062		SCRN\4HL\1/4\H1100		
	5400066		SCRN\1-1/2HL\1/4\H1100		
	5400102		SCRN\5HL\1/4\H1100		
	5400110		SCRN\6HL\1/4\H1100E		
	5400111		SCRN\7HL\1/4\H1100E		
	5400103		SCRN\8HL\1/4\H1100		
	5400080		SCRN\DUMMY\1/4\H1100		
	5400107		SCRN\SOLID\1/4\H1100		
	5400091		SCRN\2HL\1/4\H1100\SLTD		
	5400090		SCRN\3HL\1/4\H1100\SLTD		
	5400092		SCRN\4HL\1/4\H1100\SI TD		

44 CYLINDER (4-1/2" SHAFT)



CYLINDER (4-1/2") SHAFT

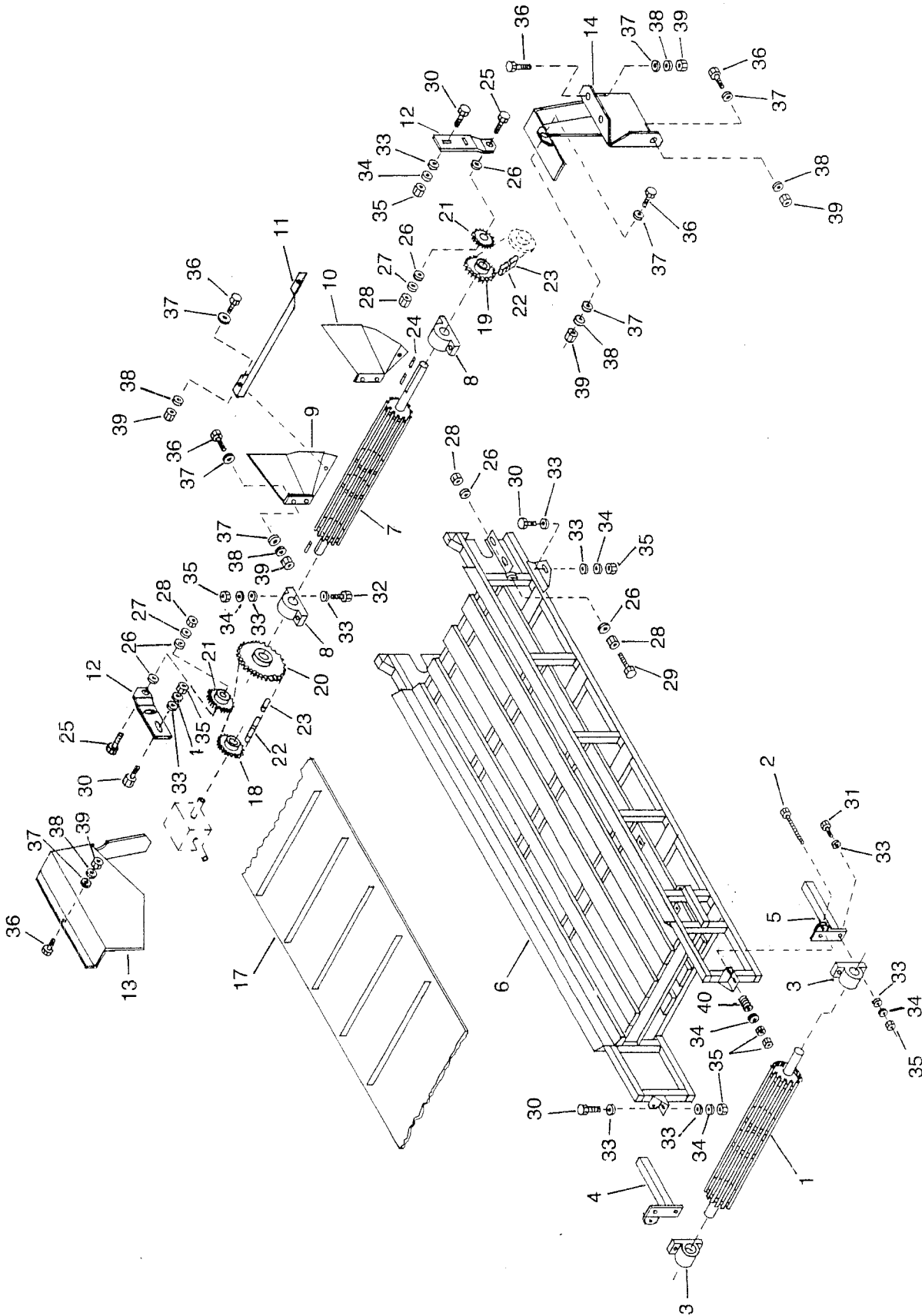
SERIAL NUMBER 0093 - GI0139

45

ITEM	PART NO	QTY	DESCRIPTION	
1	4500097	4	SHIM\BRG\3\16X3X11-3/4	
2	2000512	2	BRG\PB\3\E\DODGE	4500518 RTR\NEW\50X15\16RD\ H1100E\4.5X72SFT 3.0BRG
3	4500517	2	CYL NUT 4 1/2" SHAFT 1"	
4	4500537	2	COVER\RTR\BRG\FRONT	4500526 RTR\RBLT\50X15\16RD\ H1100E\4.5X72SFT 3.0BRG
5	4500519	2	WASH\THRUST\4-1\2IDX8OD	
6	4500523	1	PL\RTR\END\SLUGS\1/2	
7	4500348	16	SPCR\RTR\8"ODX1.878	NO RODS,HAMMERS, BRG
	4500521	6	SPCR\CAST\8.80X4.5X1.75	
8	4500522	16	PL\RTR\1\2X4-1\2ID\GRV>	
	4500520	6	CYL\PLT\1\2\FACED\2SIDES	
9	4500524	1	PL\RTR\END\1\2"	
10	4500525	1	PL\RTR\MVBL\1\4\H1100E	
12	4500144	1	DOOR\RTR\REAR RH	
13	4500145	1	DOOR\RTR\REAR LH	
14	5300019	8	ROD\HMMR\15\16X50	
15	4500248	40	SPCR\HMMR\1IDX1-1\2ODX1L	
16	5200002	88	HMMR\SUPREME\3\8"AB	
17	4500719	1	COV\BRG\RTR\W\HAYGUIDE	
18	4500717	4	CLIP\TAPPED\3\8X1-1\2X3	
19	4500251	2	HOLD DOWN\SCRN\NOTCHED	
20	4500516	1	SHFT\RTR\4-1\2"\H1100E	
21	4800100	4	BOLT\HEX\5\8X4	
22	4800054	2	BOLT\HEX\5\8X3-1\2	
23	5000002	10	WASH\FLAT\5\8	
24	5000003	6	WASH\LOCK\5\8	
25	4900005	6	NUT\HEX\5\8\NC	
26	4800085	2	BOLT\HEX\1\2X1	
27	5000004	2	WASH\FLAT\1\2	
28	5000006	2	WASH\LOCK\1\2	
29	4800003	8	BOLT\HEX\3\8X1	
30	5000001	12	WASH\FLAT\3\8	
31	5000019	8	WASH\LOCK\3\8	
32	4900002	8	NUT\HEX\3\8\NC	
33	5400095		SCRN\1\8HL\1\4\H1100	
	5400074		SCRN\3\16HL\1\4\H1100	
	5400052		SCRN\1\4HL\1\4\H1100	
	5400053		SCRN\3\8HL\1\4\H1100	
	5400054		SCRN\1\2HL\1\4\H1100	
	5400055		SCRN\5\8HL\1\4\H1100	
	5400056		SCRN\3\4HL\1\4\H1100	
	5400049		SCRN\1HL\1\4\H1100	
	5400066		SCRN\1-1\2HL\1\4\H1100	
	5400050		SCRN\2HL\1\4\H1100	
	5400051		SCRN\3HL\1\4\H1100	
	5400062		SCRN\4HL\1\4\H1100	
	5400102		SCRN\5HL\1\4\H1100	
	5400110		SCRN\6HL\1\4\H1100E	
	5400111		SCRN\7HL\1\4\H1100E	
	5400103		SCRN\8HL\1\4\H1100	
	5400080		SCRN\DUMMY\1\4\H1100	
	5400107		SCRN\SOLID\1\4\H1100	
	5400091		SCRN\2HL\1\4\H1100\SLTD	
	5400090		SCRN\3HL\1\4\H1100\SLTD	
	5400092		SCRN\4HL\1\4\H1100\SLTD	

46 BELLY CONVEYOR

Serial No. 0001 To 0022



BELLY CONVEYOR

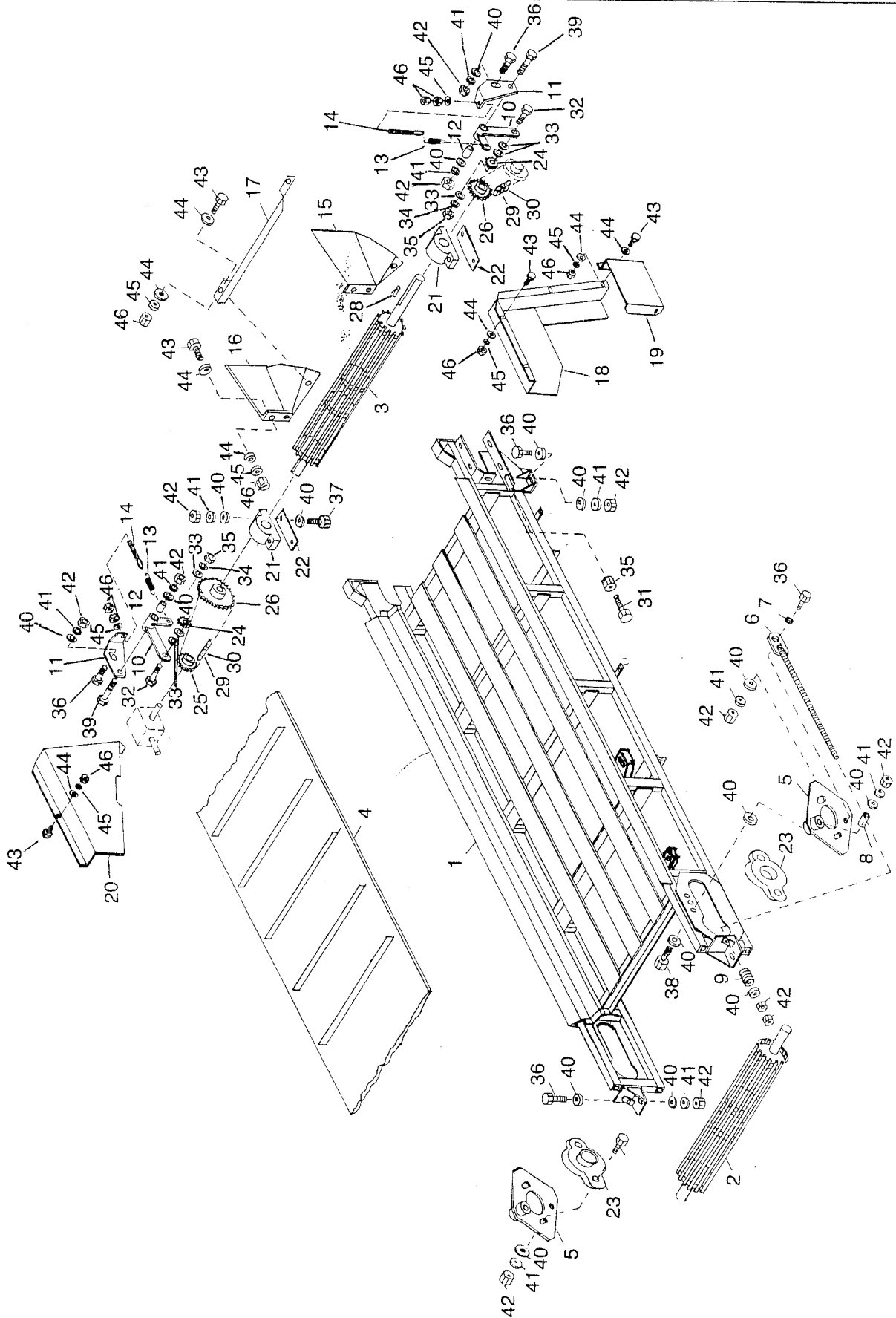
SERIAL NUMBER 0001-0022

47

ITEM	PART NO	QTY	DESCRIPTION
1	4700064	1	RLLR\IDLER\BELLY\1-1/4SFT
2	4500152	2	BOLT\ADJ\1/2X14\H1100
3	2000502	2	BRG\PB\1-1/4
4	4500351	1	BRKT\BRG\RH\H-1100E
5	4500352	1	BRKT\BRG\LH\H-1100E
6	4500119	1	CNVYR FRAME
7	4700069	1	RLLR\DR\1-1/2"SHFT
8	2000501	2	BRG\PB\1-1/2\2BOLT
9	4500354	1	DFLCTR\CONV\RH\H1100E
10	4500355	1	DFLCTR\CONV\LH\H1100E
10A	4500894	1	GUIDE\MATL\CNVYR\DISCH\LH
11	4500356	1	BRC\DFLCTR\H1100-E
12	4500357	2	BRKT\IDLER\H-1100E
13	4500358	1	SHLD\RH\BELLY\CNVYR
14	4500359	1	SHLD\LH\BELLY\CNVYR\>
17	1700158	1	BELT\CNVYR\VCLEAT\30X216
18	1000128	1	SPKT\60\B\15\1\1/4KW
18A	1000129	1	SPKT\60\B\12\1\1/4KW
19	1000130	1	SPKT\60\B\15\1-1/2\3/8KW
20	1000131	1	SPKT\60\B\30\1-1/2\3/8KW
21	1000007	2	SPKT\60\15\5/8\IDLER
22	1100005	2	CHAIN\60\61
23	1100062	2	CHAIN\60\CL
24	6200008	2	KEY\SQ\3/8X2
25	4800079	2	BOLT\HEX\5/8X2-1/2
26	5000002	12	WASH\FLAT\5/8
27	5000003	2	WASH\LOCK\5/8
28	4900005	6	NUT\HEX\5/8\NC
29	4800073	2	BOLT\PLOW\3/8X1-1/4\#3\NC
30	4800082	8	BOLT\HEX\1/2X1-1/2\NC\GR5
31	4800114	4	BOLT\HEX\1/2X2
32	4800070	4	BOLT\HEX\1/2X2-1/2
33	5000004	34	WASH\FLAT\1/2
34	5000006	16	WASH\LOCK\1/2
35	4900001	20	NUT\HEX\1/2\NC
36	4800003	10	BOLT\HEX\3/8X1
37	5000001	16	WASH\FLAT\3/8
38	5000019	10	WASH\LOCK\3/8
39	4900002	10	NUT\HEX\3/8\NC
40	6100027	2	SPRNG\COMPRESSION
	1700130	2	LACING R-2
	1700131	1	LACING PIN
	1700132	34	RIVETS

48 BELLY CONVEYOR

Serial No. 0023 Thru



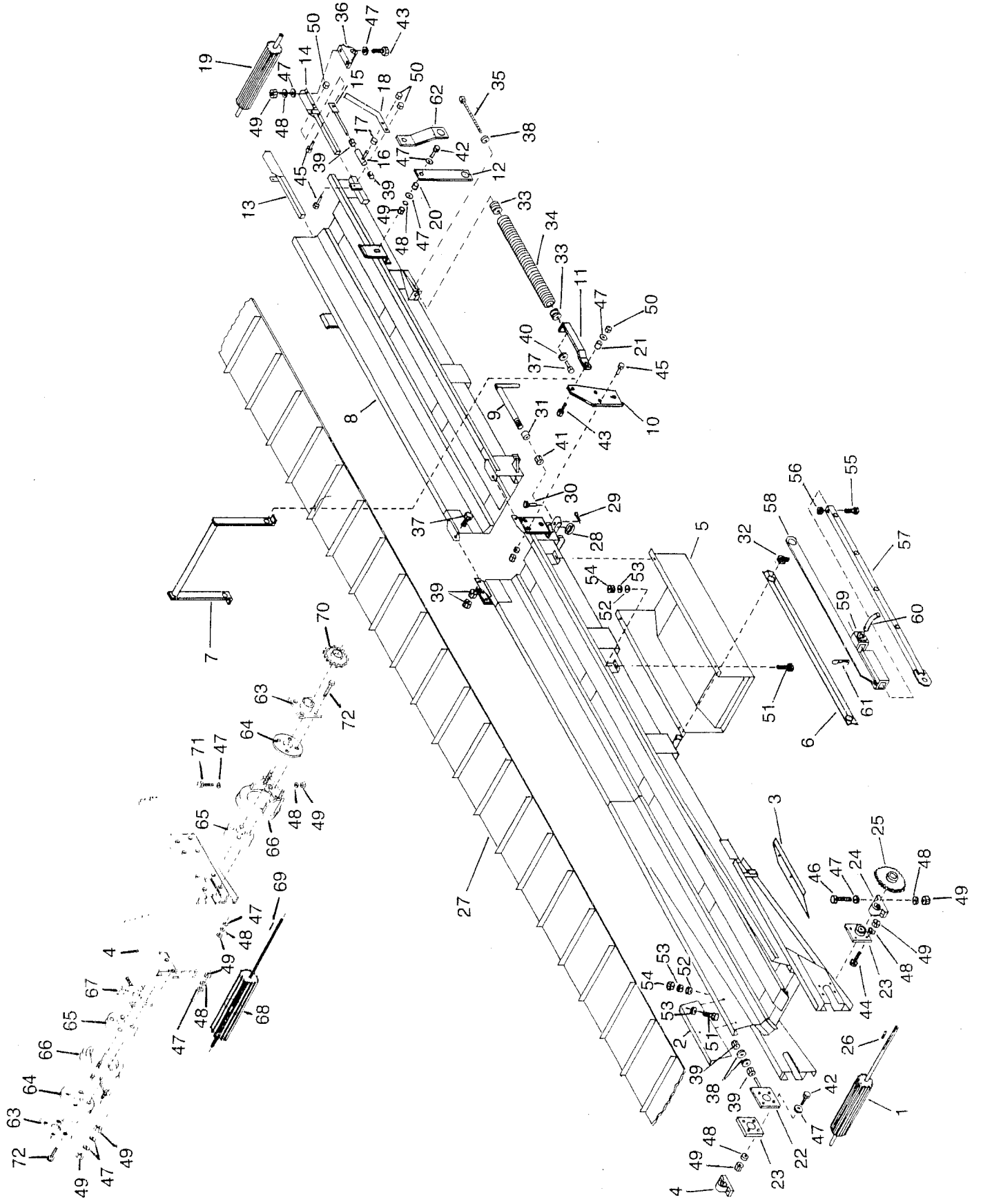
BELLY CONVEYOR

SERIAL NUMBER 0023 - FI0118

49

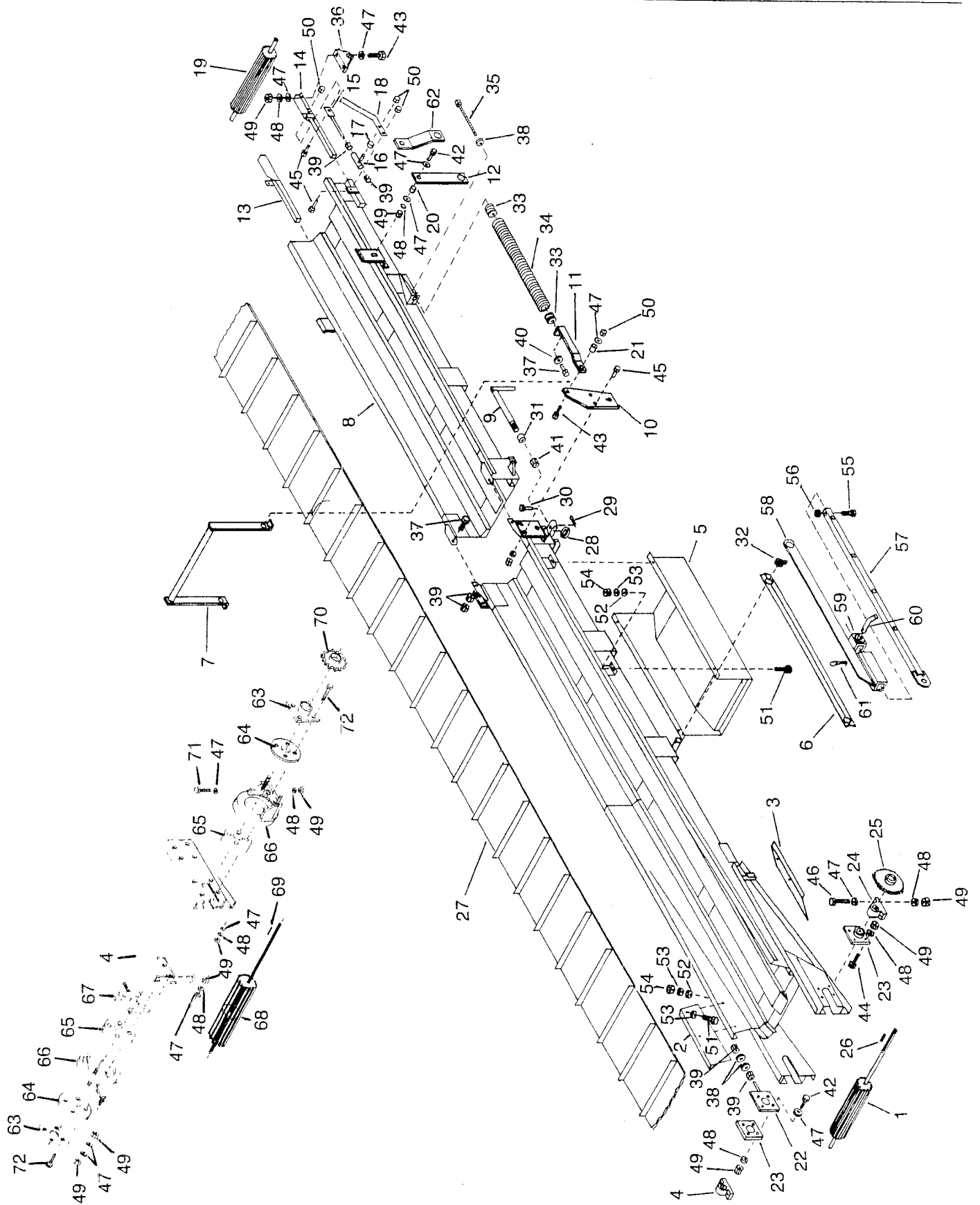
ITEM	PART NO	QTY	DESCRIPTION
1	4500360	1	BELLY PAN FRAME SS#0023 - FI0118
2	4700064	1	RLLR\IDLER\BELLY\1-1/4SFT
3	4700069	1	RLLR\DR\1-1/2"SHFT
4	1700158	1	BELT\CNVYR\VCLEAT\30X216
5	4500361	2	BRKT\BRG\CNVYR\H1100
6	4500362	2	ROD\ADJ\IDLER\H1100
7	4500363	2	BUSH\1"ODX1/2"IDX3/8"L
8	4500364	2	BUSH\1"ODX1/2"IDX1-13/16"
9	6100027	2	SPRNG\COMPRESSION
10	4500365	2	MNT\IDLER\H-1100E
11	4500366	2	BRKT\IDLER\MNT\H-1100E
12	4500367	2	BUSH\IDLER\H1100E
13	6100010	2	SPRNG\TNSN\
14	4500368	2	BOLT\3/8X3-1/2TENSION
15	4500355	1	DFLCTR\CONV\LH\H1100E
16	4500354	1	DFLCTR\CONV\RH\H1100E
17	4500356	1	BRC\DFLCTR\H1100-E
18	4500369	1	SHLD\LH\BELLY;CVYR
19	4500370	1	SHLD\DR\CNVYR\DISCH\H11E
20	4500371	1	SHLD\RH\BELLY;CNVYR
21	2000501	2	BRG\PB\1-1/2\2BOLT
22	4500395	2	SHIM\BRG\7GA\2X7
23	2000301	2	BRG\FLG\CAST\1-1/4\2BOLT
24	1000007	2	SPKT\60\15\5/8\IDLER
25	1000128	1	SPKT\60\B\15\1\1/4KW
26	1000131	2	SPKT\60\B\30\1-1/2\3/8KW
27	1000085	1	SPKT\60\B\20\1-1/2\3/8KW
28	6200008	1	KEY\SQ\3/8X2
29	1100163	2	CHAIN\60\55
30	1100062	2	CHAIN\60\CL
31	4800096	2	BOLT\ADJ\5/8X6
32	4800079	2	BOLT\HEX\5/8X2-1/2
33	5000002	12	WASH\FLAT\5/8
34	5000003	2	WASH\LOCK\5/8
35	4900002	4	NUT\HEX\3/8\NC
36	4800082	8	BOLT\HEX\1/2X1-1/2\NC\GR5
37	4800070	4	BOLT\HEX\1/2X2-1/2
38	4800068	2	BOLT\HEX\1/2X3
39	4800135	2	BOLT\HEX\1/2X3-1/2
40	5000004	26	WASH\FLAT\1/2
41	5000006	16	WASH\LOCK\1/2
42	4900001	20	NUT\HEX\1/2\NC
43	4800003	13	BOLT\HEX\3/8X1
44	5000001	26	WASH\FLAT\3/8
45	5000019	15	WASH\LOCK\3/8
46	4900002	17	NUT\HEX\3/8\NC
	4500831		FRM\PAN\BLLY\COMPLSS BLT
	1700130	2	LACING
	1700131	1	LACING PIN
	1700132	34	RIVETS

50 CONVEYOR



ITEM	PART NO	QTY	DESCRIPTION		
1	4500054	1	RLLR\DRICNVYR\DISCH	1700055	LACING
2	4500157	1	GUIDE\CNVYR\MATL\RH	1700052	LACING PIN
3	4500158	1	GUIDE\CNVYR\MATL\LH		
4	4500165	1	FRM\CNVYR\DISCH\LOWER		
5	4500159	1	GUIDE\CNVYR\BELT\BOTTOM		
6	4500194	2	BRKT\CNVYR\TRAN\HANGER		
7	4500199	1	GUIDE\CNVYR\BELT		
8	4500164	1	FRM\CNVYR\DISCH\UPPER		
9	4500372	1	HANDLE\CNVYR\LATCH		
10	4500536	2	BRKT\CNVYR\SPRING ARM		
11	4500196	2	ARM\CNVYR\SPG		
12	4500198	2	TRANSPORT LOCK		
13	4500373	1	BRKT\CNVYR\BRG\RH		
14	4500374	1	BRKT\CNVYR\BRG\LH		
15	4500375	2	BOLT\CNVYR\TENSION ADJ		
16	4500376	2	HINGE\CNVYR\TENS\ADJ		
17	4500377	2	TUBE\CNVYR\TENSION ADJ		
18	4500378	2	HANDLE\CNVYR\TNSN ADJ\LH		
18A	4500678	1	HANDLE\CNVYR\TNSN ADJ\RH		
19	4700079	1	RLLR\IDLER\CNVYR\DISCH>		
20	4500200	2	TUBE\CNVYR\3/4X1/2X3/8		
21	4500201	2	TUBE\CNVYR\3/4X1/2X3/4		
22	4500379	1	BRKT\ADJ\BRG\CNVYR\H1100	SN TO -0092	
22A	4500622	1	BRKT\ADJ SN 0093 - FI0118		
23	2000303	2	BRG\FLG\1-1/2\4BOLT		
24	2000501	2	BRG\PB\1-1/2\2BOLT		
25	1000132	1	SPKT\60\B\24\1-1/2\3/8KW		
26	6200008	1	KEY\SQ\3/8X2		
27	1700006	1	BELT\CNVYR\18\43'6W/>		
28	1400082	2	SHVE\CBLW\BRG		
29	4800123	2	PIN\COT\1/8X1-1/2		
30	4800026	2	PIN\SLV\5/8X2W\KEY		
31	2000809	1	CLLR\SHFT\1\SET		
32	4800076	2	PIN\KLIK\5/16		
33	7500113	4	SCR\PLUG		
34	6100047	2	SPRNG\1-1/2IDX33-1/2\1/2		
35	4500380	2	BOLT\ADJ\SPG\5/8X11		
36	2000502	2	BRG\PB\1-1/4		
37	4800010	4	BOLT\HEX\5/8X2		
38	5000002	4	WASH\FLAT\5/8		
39	4900005	10	NUT\HEX\5/8\NC		
40	5000003	2	WASH\LOCK\5/8		
41	4900015	1	NUT\NYLCK\1\NC		
42	4800114	6	BOLT\HEX\1/2X2		
43	4800178	4	BOLT\HEX\1/2X1-3/4		
44	4800082	4	BOLT\HEX\1/2X1-1/2\NC\GR5		
45	4800018	10	BOLT\HEX\1/2X1-1/4		
46	4800141	4	BOLT\HEX\1/2X4-1/2		
47	5000004	38	WASH\FLAT\1/2		
48	5000006	32	WASH\LOCK\1/2		
49	4900001	40	NUT\HEX\1/2\NC		
50	4900014	8	NUT\TPLCK\1/2\NC\500"MAX		
51	4800003	8	ROI\T\HEX\3/8X1		

52 CONVEYOR

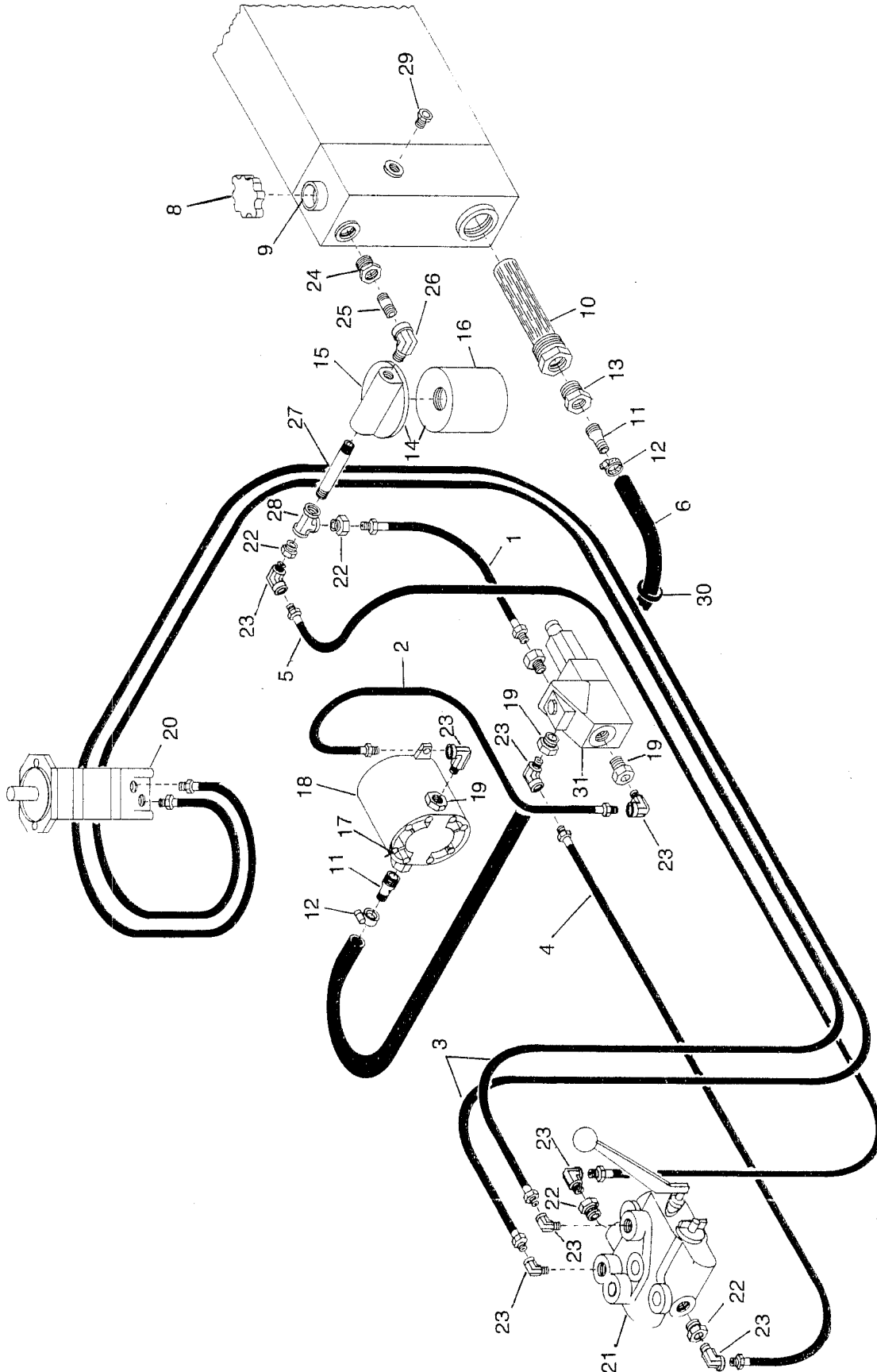


CONVEYOR

53

ITEM	PART NO	QTY	DESCRIPTION
52	5000001	12	WASH\FLAT\3/8
53	5000019	8	WASH\LOCK\3/8
54	4900002	8	NUT\HEX\3/8\NC
	SERIAL NO. 0023 THRU		
55	4800146	2	BOLT\HEX\3/8X2
56	4900023	2	NUT\TPLCK\3/8\NC
57	4500381	2	BRKT\CNVYR\SAFETY BAR
58	4500382	2	GUIDE\CNVYR\46-1/2"
59	4500383	2	TUBE\STOP\SAFETY\H1000
60	4500384	2	PIN\CNVYR\SAFETY\BAR\H11E
61	4800056	2	PIN\HAIR\3/16X3 (#6)
62	4500399	2	LATCH\CNVYR\H1000-95
63	2000303	2	BRG\FLG\1-1/2\4BOLT
64	4500529	2	MNT\PL\FAN\1/4\256-DS
65	4500530	2	MNT\PL\FAN\7.50DX3.5IDX1
66	4500514	2	MNT\HINGE\CNVYR\H-1100E
67	4500622	1	BRKT\ADJ SN 0093 - FI0118
68	4500054	1	RLLR\DR\CNVYR\DISCH
59	6200008	1	KEY\SQ\3/8X2
70	1000132	1	SPKT\60\B\24\1-1/2\3/8KW
71	4800141	4	BOLT\HEX\1/2X4-1/2
72	4800068	8	BOLT\HEX\1/2X3
73	4500534	1	CONV\CNVYR\KIT\H1000 SER # 3032

54 HYDRAULICS

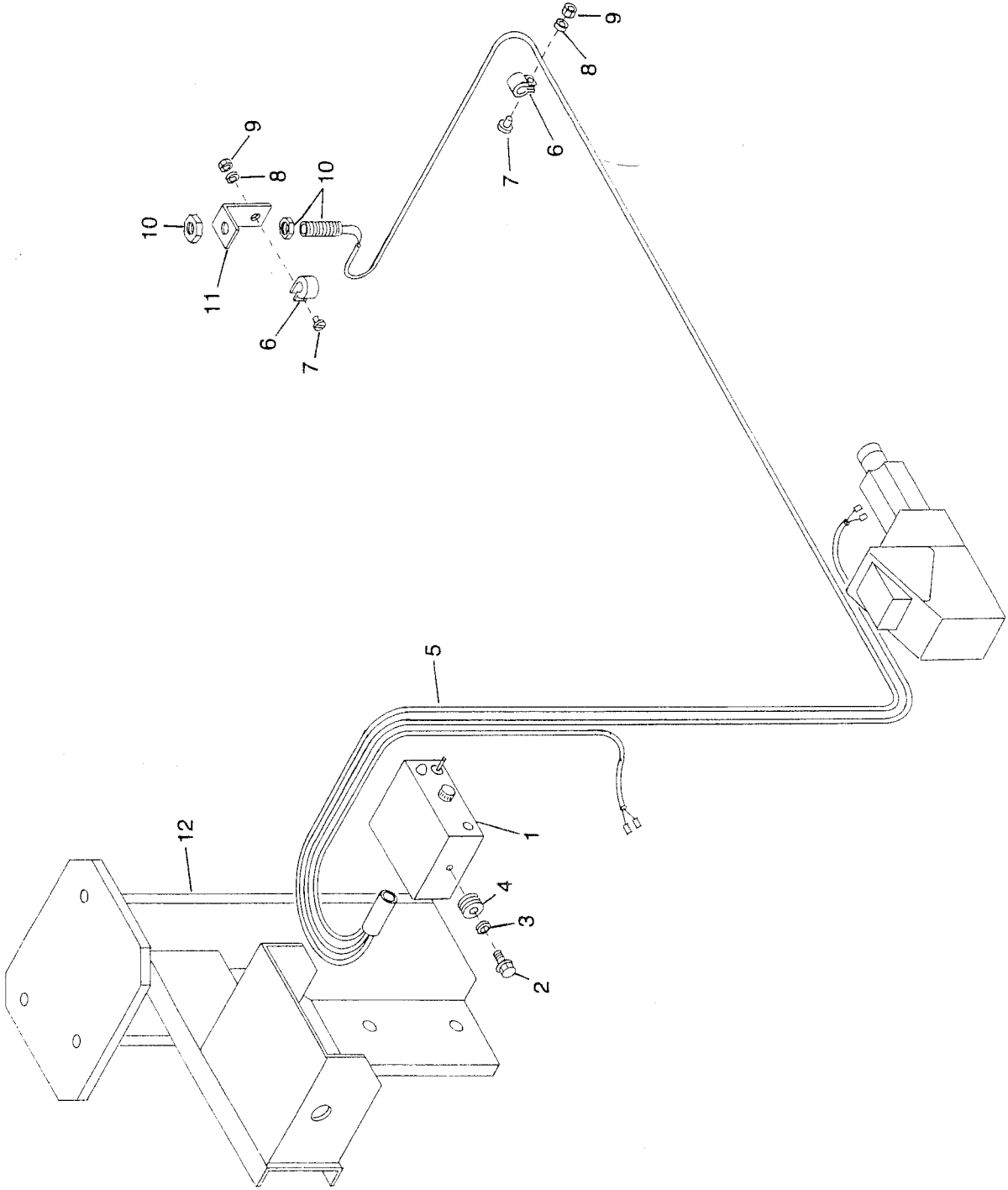


HYDRAULICS

55

ITEM	PART NO	QTY	DESCRIPTION
1	3700111	1	HOSE\HYD\1/2X14\SW-SO
2	3700017	1	HOSE\HYD\1/2X24\SW-SW
3	3700183	2	HOSE\HYD\1/2X116\SW\ORING JD
	3700231	2	HOSE\HYD\1/2X82\SW\ORING
4	3700163	1	HOSE\HYD\1/2X55\SW-SW JD
	3700180	1	HOSE\HYD\1/2X76\SW-SW CAT.
5	3700334	1	HOSE\LUB\1/4 X 58 JD
	3700181	1	HOSE\HYD\1/2X86\SW-SW CAT.
6	3700232	1	HOSE\SCTN\1X50
7	4500385	2	CLAMP\TANK\OIL\H1100E
8	7500275	1	CAP\VENTED\TANK\OIL
9	4500386	1	TANK\OIL\H1100
10	4400007	1	FLTR\SCRN\2MPX1-1/4FP\25>
11	3800056	2	FTG\1MPX1BARB\ADPT\LW
12	3800143	2	CLAMP\HOSE\1-1/2\T-BOLT\>
13	3800022	1	FTG\1-1/4MPX1FP\BUSH\LW
14	4400006	1	FLTR\COMP\10MICRON\3.7D\>
15	4400004	1	FLTR\BASE\3/4FP\3.7D\>
16	4400005	1	FLTR\ELMT\10MICRON\3.7D>
17	3800046	1	FTG\1-3/16\MORX1FP\ADPT
18	4200026	1	PUMP\EATON\LH\15 GAL
19	3800255	4	FTG\1-5/16\MORX1/2FP\ADPT
20	3900005	1	MTR\HYD\14.9\2000\SAE;A\>
21	4000016	1	VALVE\HYD\1-SPL\FLO;CNTRL
22	3800010	4	FTG\3/4MPX1/2FP\BUSH
23	3800008	8	FTG\1/2MPX1/2FP\90D\ST;EL
24	3800131	1	FTG\1MPX3/4FP\BUSH\LW
25	3800015	1	FTG\3/4MPX2\NPL\LW
26	3800129	1	FTG\3/4MPX3/4FP\90D\ST;EL
27	3800039	1	FTG\3/4MPX4-1/2\NPL\LW
28	3800017	1	FTG\3/4FP\TEE\LW
29	3800137	1	FTG\3/4MP\SIGHT;GLASS
30	7500199	1	GROMMET 1.5ID X.25 2775
31	4300065	1	VALVE\SERVO\15GPM\12VDC>
			Note; Check port size on valve, previous style used 1" straight thread connectors, 4300065 requires 1-5/16" connector, 3800255
	7501018		SERVICE KIT O-RING K1002
	4300010		VALVE\SOLENOID\12V\JEMM

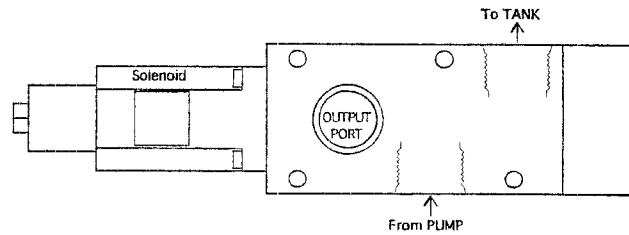
56 CONTROL BOX



CONTROL BOX

57

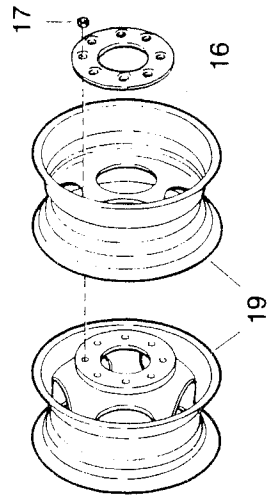
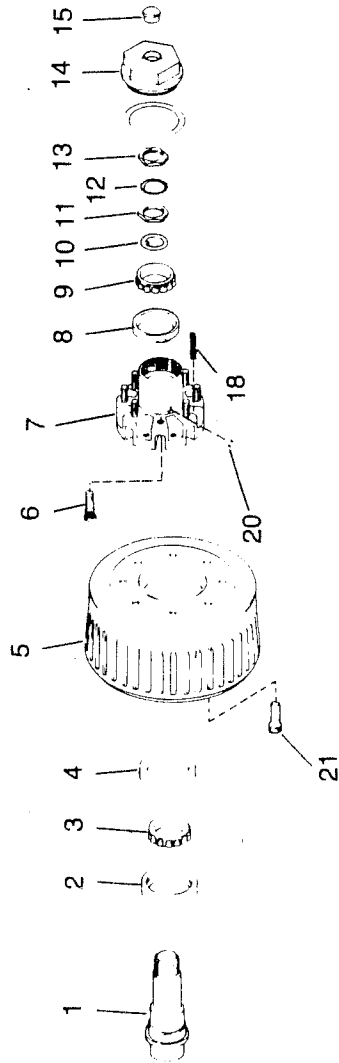
ITEM	PART NO	QTY	DESCRIPTION
1	4300034	4	NEW STYLE CNTRL BOX RCB93
2	4800194	2	SCR\FLG\1/4X3/4
3	4800035	2	WASH\FLAT\1/4
4	7500124	2	GROMMET\RUBBER\1ODX9/32ID
5	4300007	1	WIRING HARNESS\1000\1100
6	7500219	2	1/4" WIRE CLAMP
7	4800154	3	SCR\PAN\SLOT\1/4X1/2\ST
8	5000024	3	WASH\LOCK\1/4
9	4900009	3	NUT\HEX\1/4\NC
10	4300009	1	SENSOR\MAGW/HARDWARE
11	4500205	1	BRKT\SNSR\H-1000
12	4500387	1	CONTROL BOX & VALVE MOUNT
13	4300038	1	REBUILT CONTROL BOX RCB93
14	7500218	1	1/2" WIRE CLAMP
	4300010		Solenoid\Hyd Valve\12V
	4300065		VLV\SERVO\15GPM\12VDC



Valve 4300065

58 AXLE - HUB - WHEELS

HUB GROUPS



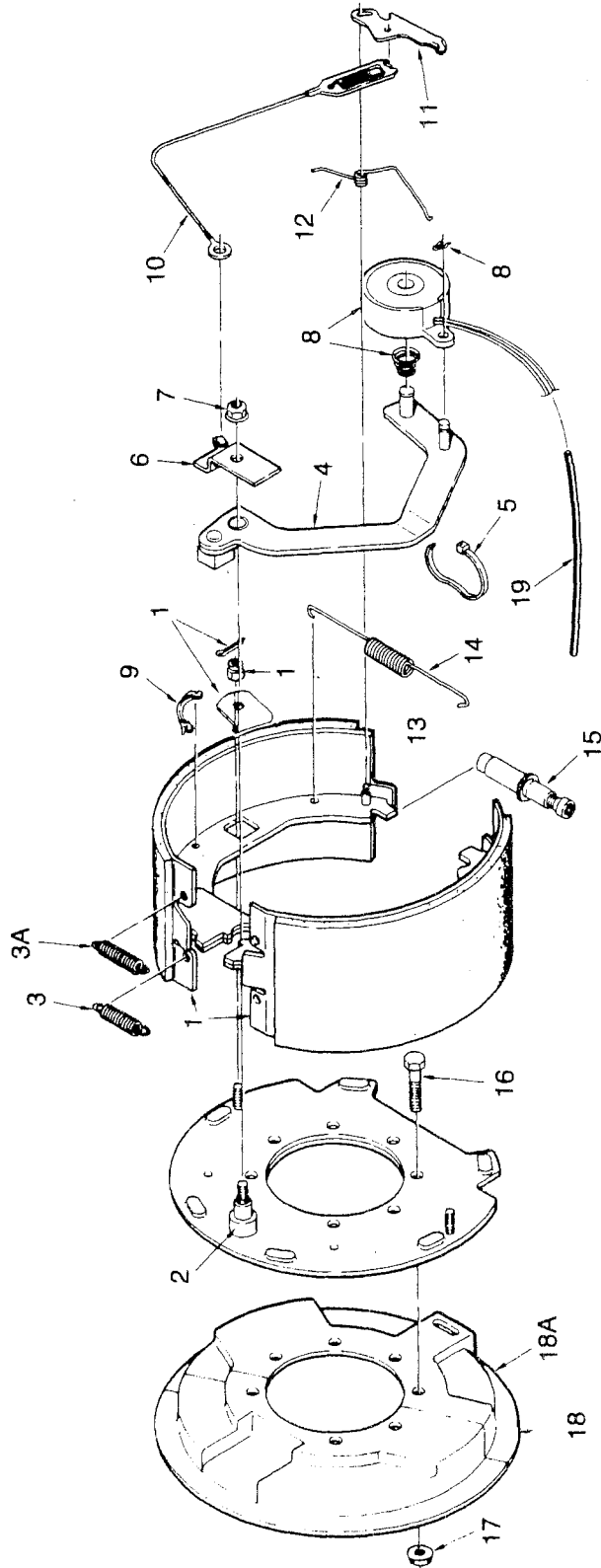
AXLE-HUB-WHEELS

59

ITEM	PART NO	QTY	DESCRIPTION
1	2500024	1	AXLE\COMP\15K\ELEC\74X46
2	2900092	2	UNITIZED OIL SEAL 12K
3	2500003	2	INNER BEARING CONE
4	2500004	2	INNER BEARING CUP
5	2500019	2	BRAKE DRUM 15K
6	2500010	10	WHEEL MOUNT STUD RH
6A	2500011	10	WHEEL MOUNT STUD LH
7	2500001	1	CUPS & STUDS RH
7A	2500002	1	CUPS & STUDS LH
8	2500005	2	OUTER BEARING CUP
9	2500006	2	OUTER BEARING CONE
10	2500017	2	WASH\SPNDL
11	4900061	2	NUT\SPNDL
12	5000059	2	TANG WASHER
13	2500020	2	OIL CAP O-RING 15K 10-50
14	2500021	2	OIL CAP 15 K
15	2500022	2	OIL CAP PLUG
17	2500013	10	INNER NUT RH
17A	2500014	10	INNER NUT LH
17B	2500015	10	OUTER NUT RH
17C	2500016	10	OUTER NUT LH
19	2600630	4	17.5X6.75 HC DUAL
20	2500023	2	OIL FILL PLUG
21	4800225	16	BOLT\L\3/4X3-3/4X5-3/4
22	2600025	4	TIRE\9RX17.5G\14PLY
	2500911		SPRING\LEAF\7\72-45-1 15K
	2500026		BOLT\U\15K AXLE 6.75X10.5
	2500028		OIL CAP KIT 15 K

60 ELECTRIC - BRAKE

ELECTRIC BRAKE PARTS

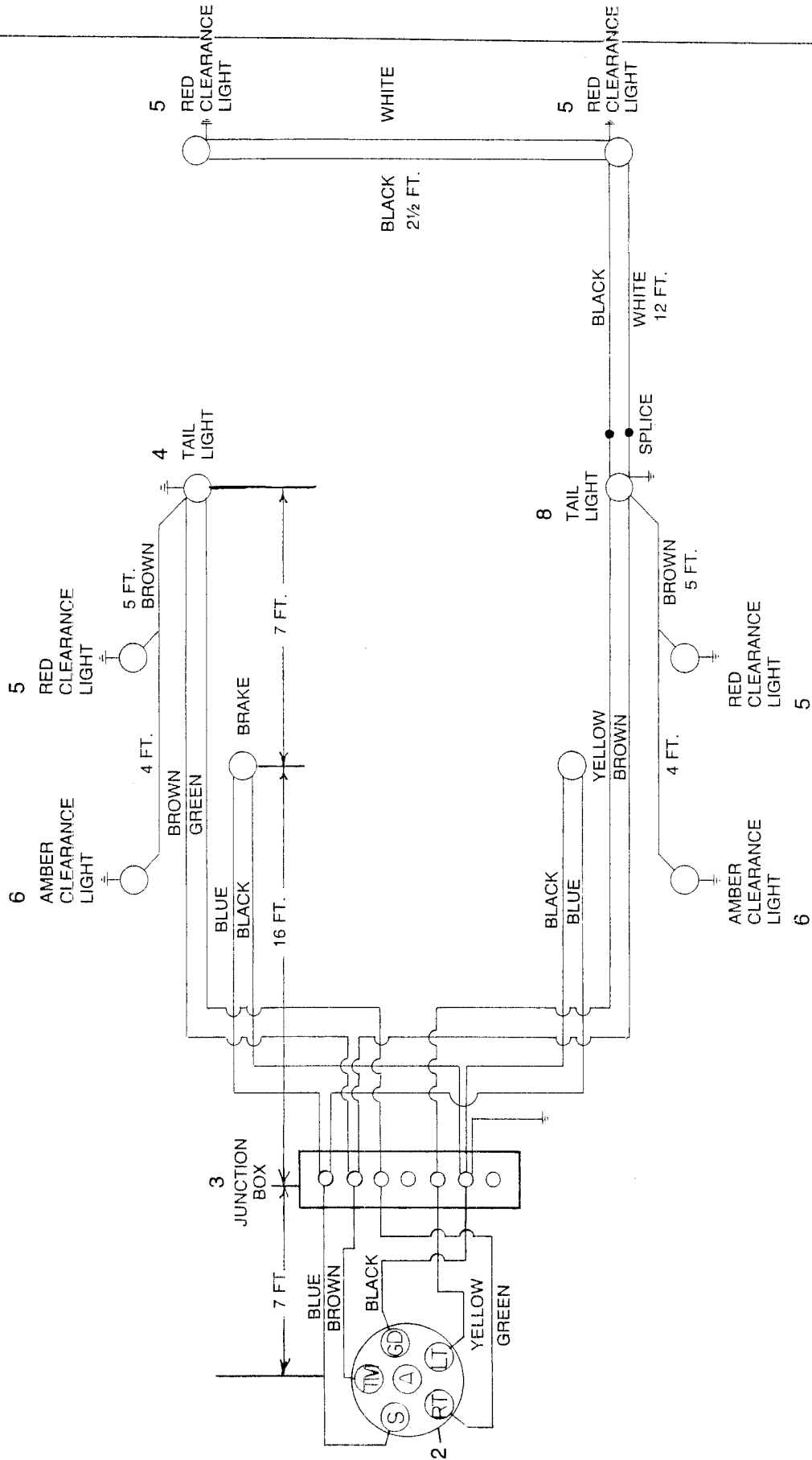


ELECTRIC-BRAKE

61

ITEM	PART NO	QTY	DESCRIPTION
1	2500301		LH SHOE AND LINING KIT
1A	2500302		RH SHOE AND LINING KIT
2	2500303		BACKING PLATE ASSY
3	2500304		SHOE RETURN SPRING (REAR)
3A	2500305		SHOE RETURN SPRING (FRNT)
4	2500327		LH ACTUATOR ARM OVAL MAG
	2500328		RH ACTUATOR ARM OVAL
5	2500308		TIE\CBL
6	2500309		LH ARM\SHOE RETAINER
	2500310		RH ARM\SHOE RETAINER
7	4900060		NUT\FLG#6\NC
8	2500329		MAGNETKIT\OVAL
9	3500311		GUIDE\CBL
10	2500312		CABLE\ADJUSTER\IG-10
11	2500313		LEVER\ADJ\LH
	2500314		LEVER\ADJ\RH
12	2500315		SPRNG\LEVER\ADJ\LH
	2500316		SPRNG\LEVER\ADJ\RH
13	2500317		PIN\PIVOT
14	2500318		SPRNG\ADJUSTER
15	2500319		ASSY\ADJ\LH
	2500320		ASSY\ADJ\RH
16	4800253		BOLT\HEX\7/16X1-3/4
17	4900035		NUT\TPLCK\7/16\NC
18	2500321		CVR\DUST\TOP
	2500322		CVR\DUST\BTM
19	2500323		SLEEVE\ELEC.BRAKE
20	2500324		WIRE GROMMET
	2500330		LH SHOE & LINING KIT 10K 4" WIDE
	2500331		RH SHOE & LINING KIT 10K 4" WIDE
	2500332		LH SHOE & LINING KIT 15K 5" WIDE
	2500333		RH SHOE & LINING KIT 15K 5" WIDE

62 LIGHTS - WIRING SCHEMATIC

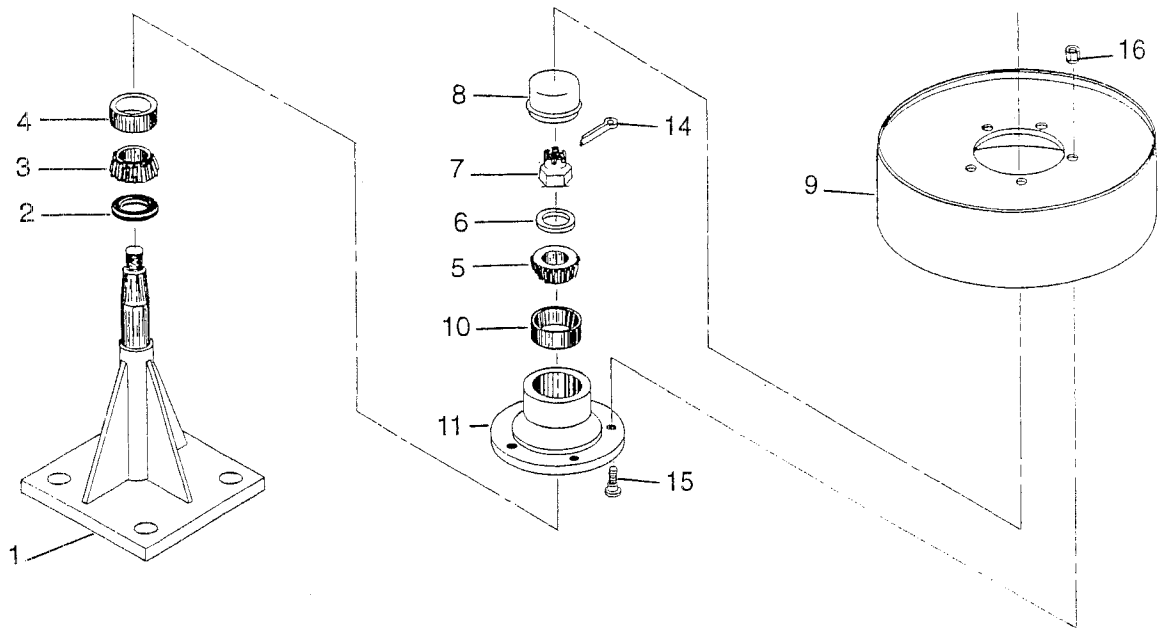


LIGHTS-WIRING SCHEMATIC

63

ITEM	PART NO	QTY	DESCRIPTION
1	5700032	1	TERM\6POLE\TRUCK\CONN
2	5700033	1	TERM\6POLE\TRLR\CONN
3	5700034		ENCL\JCT\7POLE\TRLR\HARN
4	5700036		LAMP\TAIL\12VDC\RH
5	5700037		LAMP\CL\12VDC\RED
6	5700038		LAMP\CL\12VDC\AMBER
7	5700008		CBL\CORD\14GA\6COND\FT
8	5700039		LAMP\TAIL\12VDC\LHW/LIC>

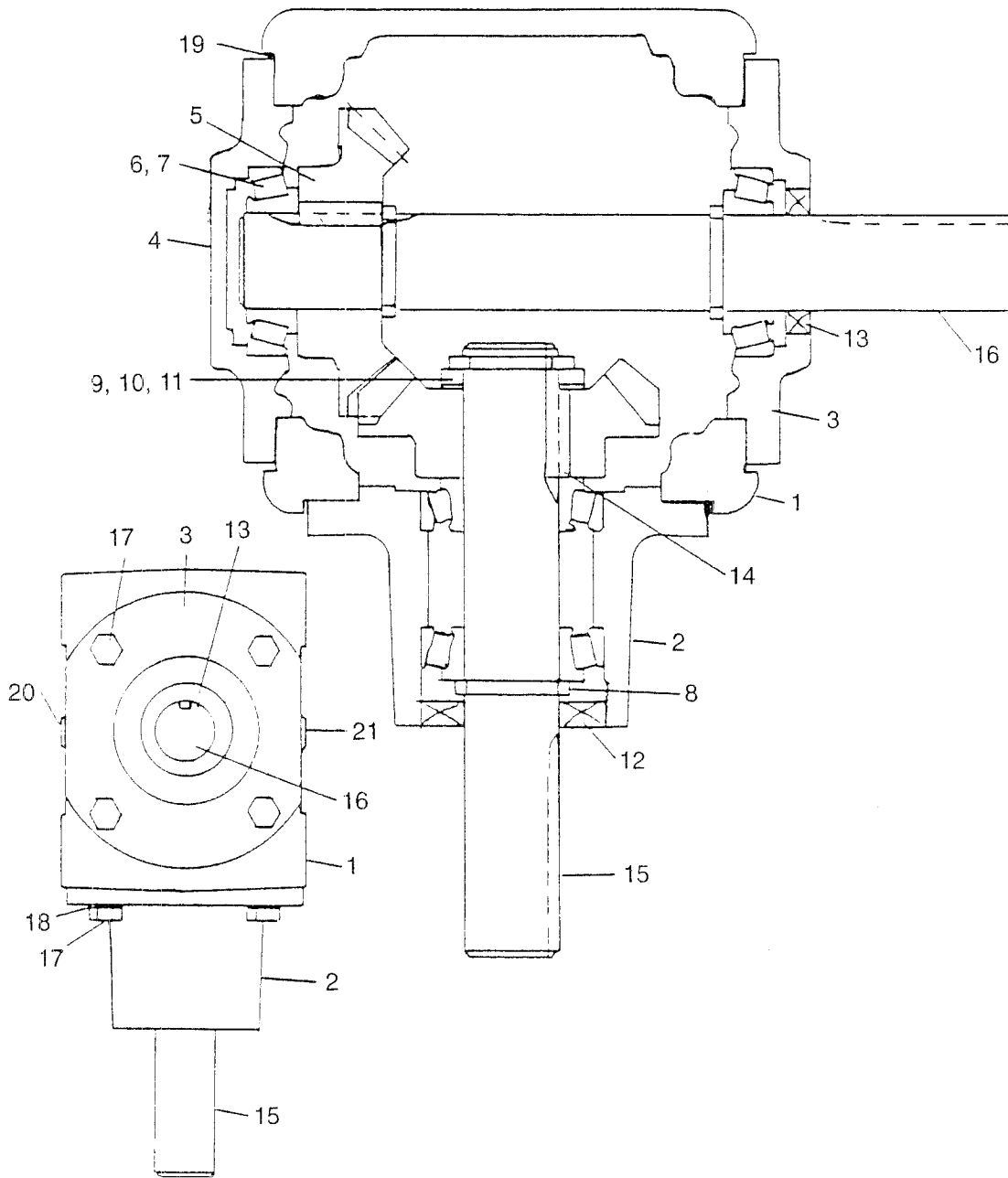
64 PRESSURE ROLLER



ITEM	PART NO	QTY	DESCRIPTION
1	1200010	1	RLLR\PRSS;STND
2	2900055	1	SEAL\WHEEL HUB(16069)
3	2900018	1	CONE\OUTER\WHL;HUB(67048)
4	2900004	1	CUP\OUTER\WHL;HUB 67010
5	2900061	1	OUTERCONE\WHL;HUB(11949)
6	5000094	1	WASH\SPNDL\5/8
7	4900112	1	NUT\SLOT\5/8\NF
8	2900064	1	CAP\WHL;HUB(985)
9	4500088	1	DRUM\RLLR\PRESS
10	2900056	1	OUTERCUP\WHL;HUB(11910)
11	2900057	1	HUB\5-BOLT\985\COMP
12	3000025	1	PRESS ROLLER SPDLE
13	4500247	1	RLLR\PRESS\COMPL
14	4800172	1	PIN\COT\1/8X2
15	2900010	5	BOLT\WHEEL\WHL;HUB\100 SR
16	4900094	5	NUT\TPR\WHEL\1/2\13/16OD>

66 GEAR BOX

Serial No. 0068 Thru



GEAR BOX-PRAIRIE

SERIAL NUMBER 0068 & ^

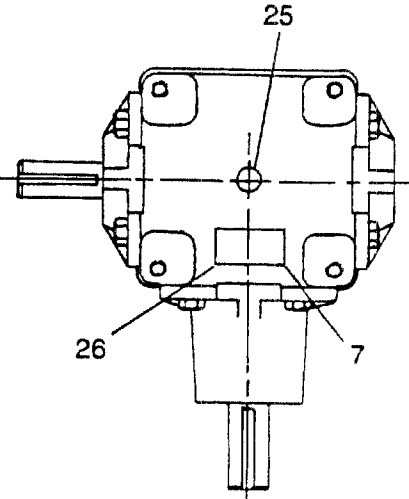
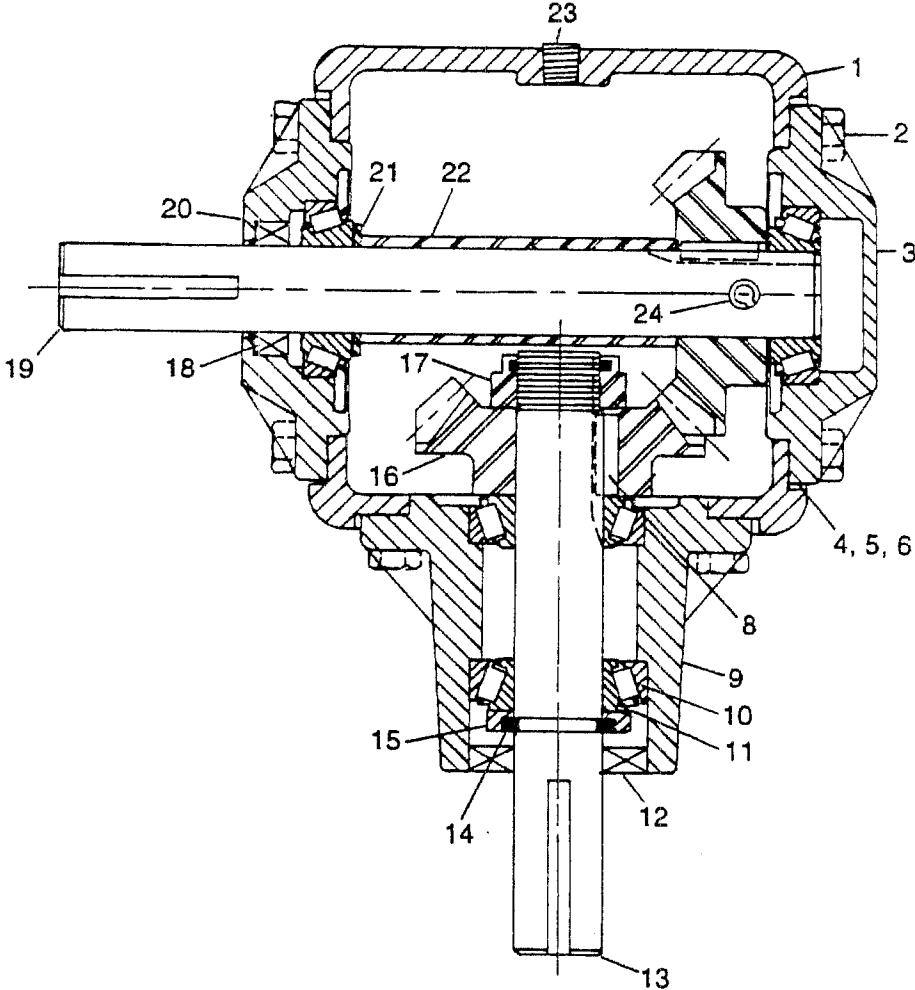
67

ITEM	PART NO	QTY	DESCRIPTION
1	3100322	1	OPEN CENTER CASE PRAIRIE
2	3100323	1	QUILL 1.98DIA.SEALPRAIRIE
3	3100324	1	OPEN COVER PRAIRIE
4	3100325	1	CLOSED COVER PRAIRIE
5	3100326	2	19 TOOTH GEAR PRAIRIE
6	3100024	4	CONE\BRG
7	3100023	4	CUP\BRG
8	3100327	3	SNAP RING PRAIRIE
9	3100335	VAR.	SHIM .0075 PRAIRIE
10	3100328	1	1"IDX1 1/2"ODX.130 WSHR P
11	3100329	1	SNAP RING PRAIRIE
12	3100309	1	SEAL CURTIS
13	3100114	1	SEAL #300004
14	3100330	2	1/4"X1/4"X.93 KEY PRAIRIE
15	3100331	1	PINION SHAFT PRAIRIE
16	3100332	1	CROSS SHAFT PRAIRIE
17	3100301	12	BOLT\5/16X7/8\CURTIS
18	3100333	12	5/16" LOCK WASHR PRAIRIE
	3100336		SHIMS .020 PRAIRIE
19	3100335	VAR.	SHIM .0075 PRAIRIE
	3100338		SHIMS .005 PRAIRIE
20	3100318	1	PIPE PLUG-SOLID CURTIS
21	3100319	1	PIPE PLUG-VENTED CURTIS
	3100334	1	SHFT\ (TO REVRS GB) PRAIRIE
	3100187	1	GRBX\RTANGLE\1:1\OPPOSING-PRAIRIE GEAR BOX

GEAR BOX -CURTIS

SERIAL NO. Up to 0067

66A



GEAR BOX -CURTIS

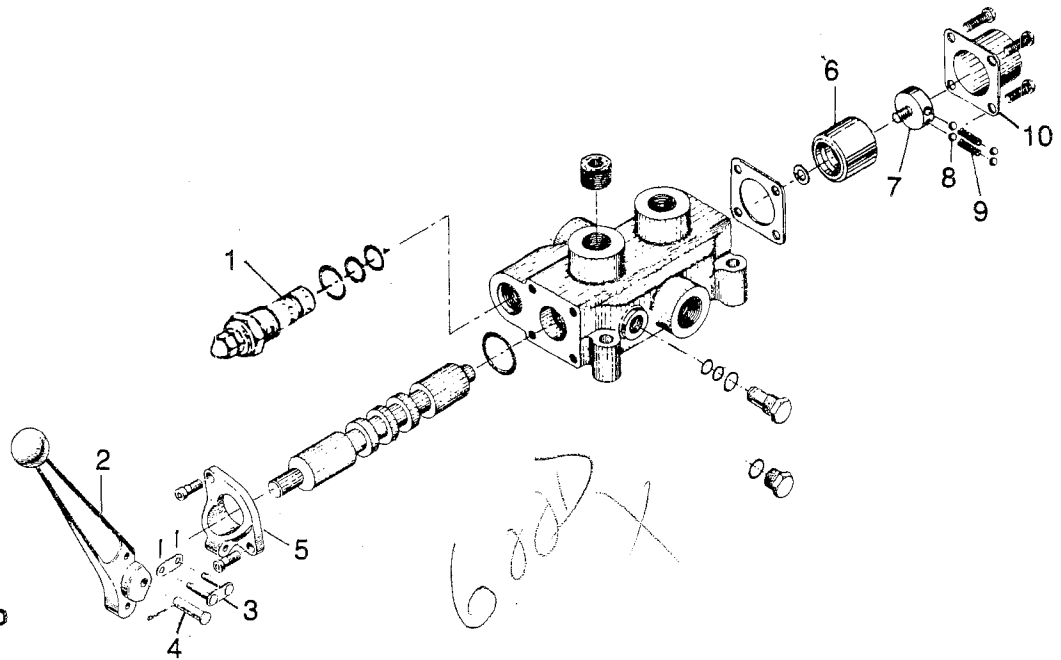
SERIAL NO. Up to 0067

67A

ITEM	PART NO	QTY	DESCRIPTION
1	3100030	1	HSG CURTIS
2	3100301	12	BOLT\5/16X7/8\CURTIS
3	3100302	1	BLANK CAP CURTIS
4	3100162	VAR.	SHIMS .015
5	3100161	VAR.	SHIMS .005
6	3100160	VAR.	SHIMS .003
7	3100306	1	I.D.TAG COVER CURTIS
8	3100307	2	KEY CURTIS
9	3100308	1	INPUT CAP CURTIS
10	3100023	4	CUP\BRG
11	3100024	4	CONE\BRG
12	3100309	1	SEAL CURTIS
13	3100180	1	SHFT\INPUT - CURTIS
14	3100310	1	RETAINING RING CURTIS
15	3100311	1	CLLR\THRUST\ CURTIS
16	3100312	1	GEAR CURTIS
17	3100183	1	NUT\LOCK\1"(410415)
18	3100114	1	SEAL #300004
19	3100314	1	SHFT\OUTPUT - CURTIS
20	3100315	1	CAP CURTIS
21	3100316	1	WASHER CURTIS
22	3100317	1	SPACER CURTIS
23	3100318	2	PIPE PLUG-SOLID CURTIS
24	3100041	1	PIN\ROLL\5/16X2
25	3100319	1	PIPE PLUG-VENTED CURTIS
26	3100320	1	I.D. TAG CURTIS
27	3100321	1	SHFT\ (TO REVRG GB)\CURTIS
28	3100187	1	GRBX\RTANGLE\1:1\OPPOSING

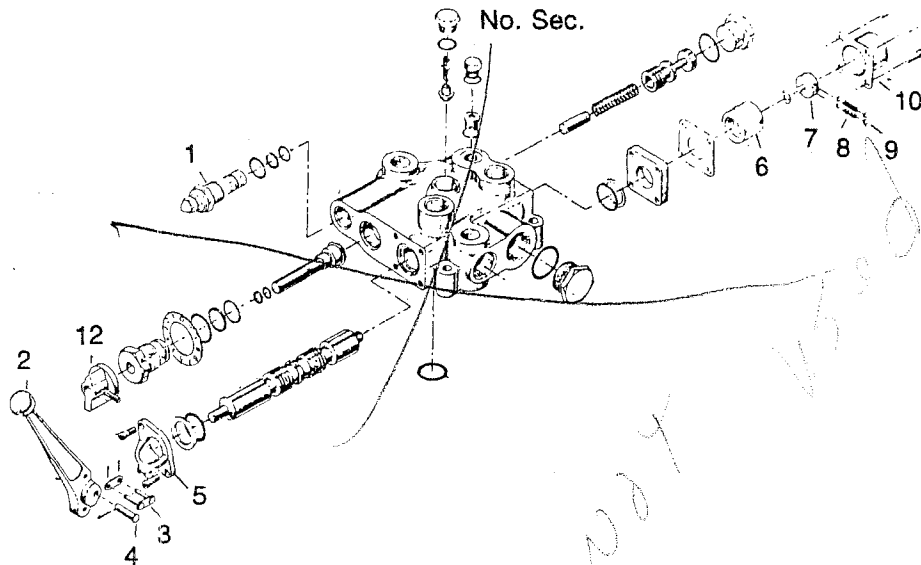
VAN RUDEN GEAR BOX WAS USED BEFORE CURTIS GEAR BOX THEN WE WENT TO PRAIRIE GEAR BOX. THERE ARE NO PARTS FOR VAN RUDEN GEAR BOX(OUT OF BUSINESS)

68 HYDRAULICS



Hydraulics Group

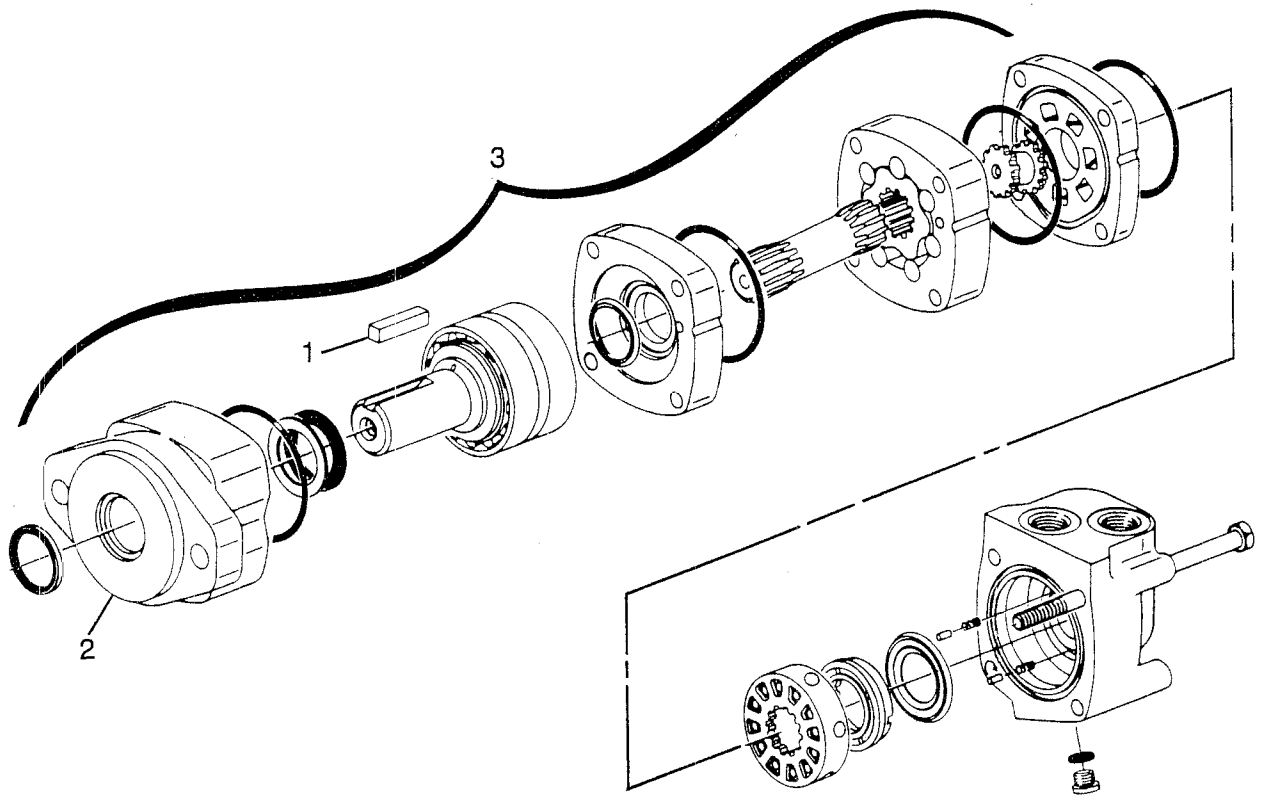
ITEM	PART NO.	QTY.	DESCRIPTION
1	4000006	1	Adj. Relief Valve
2	4000001	1	Valve Handle
3	4000002	1	Connector Links Handle
4	4000003	1	Pin Handle w/Key
5	4000004	1	Handle Bracket
6	4000025	1	Detent Sleeve
7	4000026	1	Detent Retainer (Screw)
8	4000027	2	Detent Spring
9	4000028	4	Ball (1/4" Steel)
10	4000029	1	End Cap
11	3200013	1	Seal Kit (Not Shown)
	4000035	-	Valve Complete



Hydraulics Group

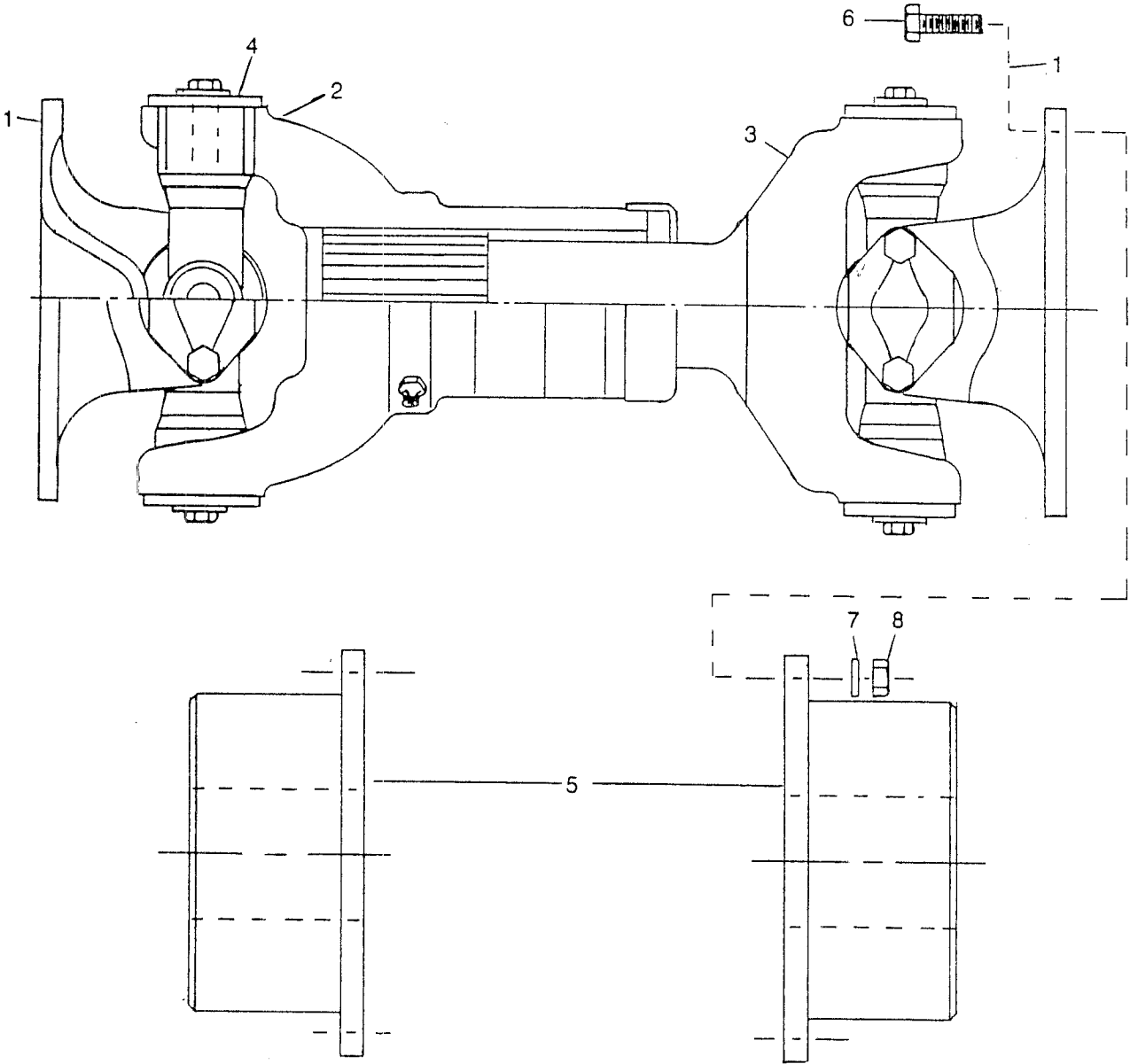
ITEM	PART NO.	QTY.	DESCRIPTION
1	4000006	1	Adj. Relief Valve
2	4000001	1	Valve Handle
3	4000002	1	Connector Links Handle
4	4000003	1	Pin Handle w/Key
5	4000004	1	Handle Bracket
6	4000025	1	Detent Sleeve
7	4000026	1	Detent Retainer (Screw)
8	4000027	2	Detent Spring
9	4000028	4	Ball (1/4" Steel)
10	4000029	1	End Cap
11	3200009	1	Seal Kit (Not Shown)
12	4000030	1	Knob

TUB DRIVE MOTOR 69



ITEM	PART NO	QTY	DESCRIPTION
1	6200004	1	KEY\SQ\5/16X1-1/2
2	7501005	1	KIT 2000 ORBIT- NOT SHOWN
3	3900005	1	MTR\HYD\14.9\2000\SAE;A\>
4	3900011	1	MTG FLG(2000 SER)

70 POWER SHAFT



POWER SHAFT

71

ITEM	PART NO	QTY	DESCRIPTION
1	3600152	2	FLANGE YOKE 1710
2	3600153	1	SLIP YOKE 1710
3	3600154	1	YOKE SHAFT 1710
4	3600155	2	JOURNAL & BRG KIT 1710
5	3600173		FLANGE 2 7/16 ID 1710
6	4800252	16	BOLT\HEX\7/16X1-3/8\GR8\>
7	5000015	16	WASH\LOCK\7/16
8	4900059	16	NUT\HEX\7/16\NF
9	3600158	1	1710 DRIVELINE 18" COMP.
	3600156		FLANGE 3" I.D 1710

11

IMPORTANT

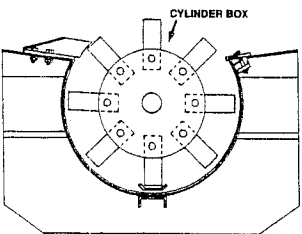
DO NOT ENGAGE CLUTCH AT HIGH ENGINE RPM. BEFORE STARTING ENGINE, CYLINDER BOX SHOULD BE CLEARED OF ALL MATERIAL. SET ENGINE AT APPROXIMATELY 1000 RPM. PULL FIRMLY ON LEVER WHEN ENGAGING CLUTCH TO PREVENT EXCESSIVE SLIPPAGE. CHECK PERIODICALLY FOR PROPER ADJUSTMENT ACCORDING TO SPEC. PLATE ON CLUTCH HOUSING.

ADJUSTMENT

CLUTCH If the clutch does not pull, overheats, or the clutch operating lever jumps out, the clutch must be adjusted. To adjust the clutch remove the hand hole plate in the housing and rotate the clutch until the adjusting lock screw can be reached. Remove or disengage the adjustment ring lock.

HE CLUTCH Turn the adjusting ring counter clockwise to obtain recommended operating lever pressure.

HD CLUTCH Turn the adjusting ring clockwise to obtain recommended operating lever pressure. 6500121



A new clutch generally requires several adjustments until the friction surfaces are worn in. Do not let a clutch slip as this will glaze the friction plates and may ruin them.

DAMAGE DUE TO EXCESSIVE SLIPPING WILL NOT BE COVERED BY WARRANTY.

1

WARNING

KEEP OFF MACHINE WHILE IN OPERATION

6500115

5

DANGER

ROTATING PARTS WITHIN CAN KILL OR DISMEMBER

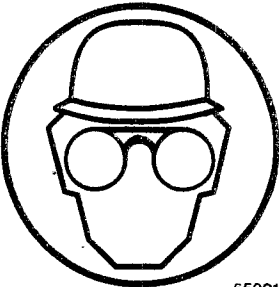
WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING, UNCLOGGING OR INSPECTING MACHINE

6500082

10

DANGER

OBJECTS THROWN BY MACHINE. DO NOT OPERATE WITHOUT WEARING SAFETY GLASSES AND A HARD HAT. KEEP UNAUTHORIZED PERSONNEL OUT OF THE GRINDING AREA!



6500118

16

DIESEL FUEL

17

HYDRAULIC OIL

8

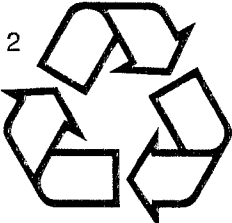
WARNING

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.

6500041

2



RECYCLE

7

WARNING

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

6500040

14



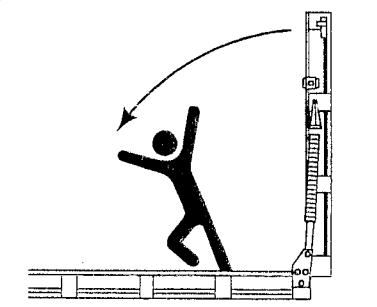
WARNING

NO RIDERS

SERIOUS PERSONAL INJURY COULD RESULT FROM RIDING ON THE MACHINE

6500042

20



WARNING

Failure to use caution while Folding the conveyor could result in Serious Injury.

6500130

22 **Manufactured
by**



3 **H-1100 E**

6500148

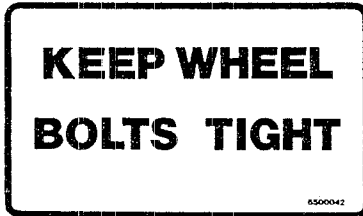
23

IMPORTANT SAFETY INFORMATION

- This brake winch is built for multipurpose hauling and lifting operations. It is not to be used as a hoist for lifting, supporting or transporting people, or for loads over areas where people could be present.
- Respect this winch. High forces are created when using a winch, creating potential safety hazards. It should be operated and maintained in accordance with instructions. Never allow children or anyone who is not familiar with the operation of the winch to use it. A winch accident could result in personal injury.
- Check winch for proper operation on each use. Do not use if damaged. Seek immediate repairs.
- Never exceed rated capacity. Excess load may cause premature failure and could result in serious personal injury.
- Never apply load on winch with cable fully extended. Keep at least three full turns of cable on the reel.
- Secure load properly. When winching operation is complete, do not depend on winch to support load.
- Operate with hand power only. This winch should not be operated with a motor of any kind. If the winch cannot be cranked easily with one hand, it is probably over-loaded.

6500149

6



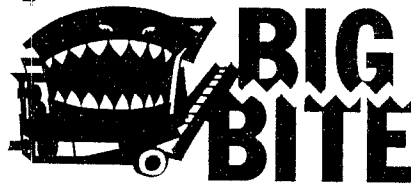
6500042

12

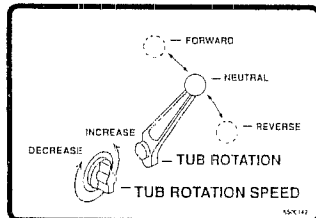
← **OIL LEVEL**

6500052

4



21



6500112

18

ENGINE SERVICE REPORT

- Check engine oil level.
- Check engine coolant.
- Check batteries.
- Check air cleaner for obstructions.
- Check exhaust for obstructions.

6500132

13



6500112



6500118

15

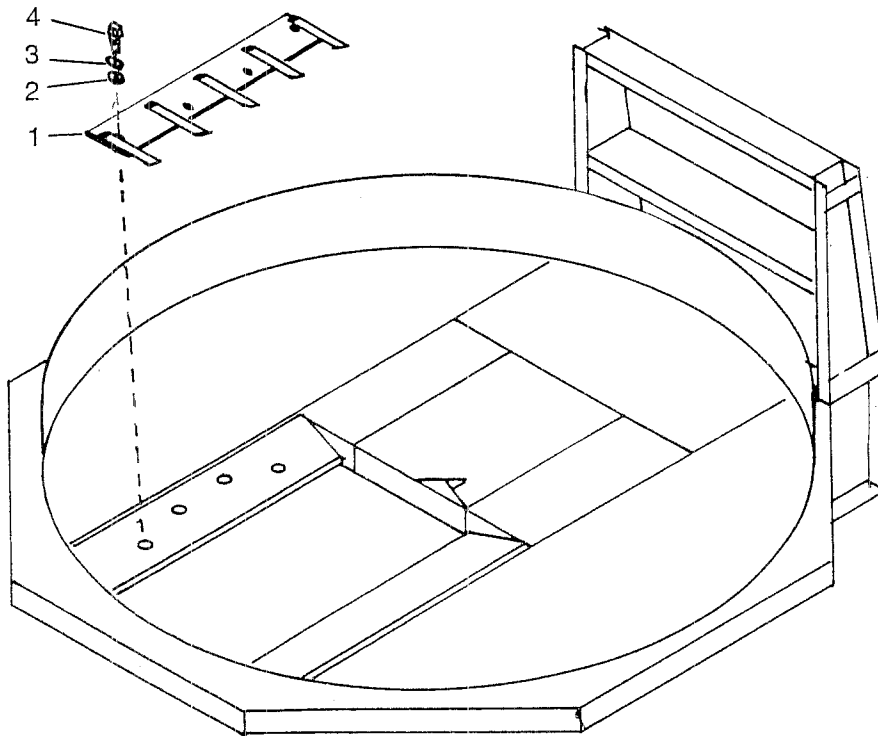
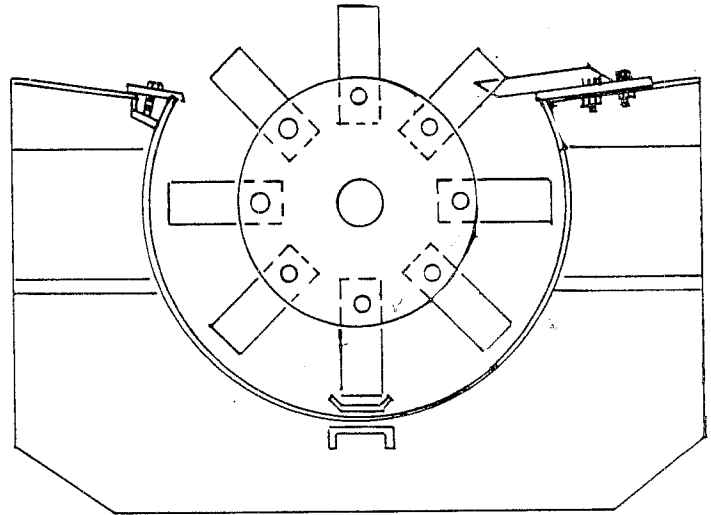


ITEM	PART NO.	QTY.	DESCRIPTION
	6500265	1	DECAL\KIT\H1100E\OLD
1	6500115	2	DECAL\WARN\KEEP;OFF;MACH
2	6500116	2	DECAL\LOGO\RECYCLE
3	6500148	2	DECAL\LOGO\H-1100E
4	6500044	2	DECAL\LOGO\BIG BITE
5	6500082	4	DECAL\WARN\ROTATN;PART;>
6	6500042	2	DECAL\WARN\KEEP;WHL;BLTS>
7	6500040	3	DECAL\WARN\SHIELD;PROT
8	6500041	2	DECAL\WARN\PROTECTION
9	7500311	2	WALK\SAFETY\3M\4X30
10	6500118	2	DECAL\DNGR\OBJECTS;THROWN
11	6500121	1	DECAL\WARN\IMPORTANT\DO;>
12	6500052	1	DECAL\INFO\OIL;LEVEL
13	6500112	2	DECAL\INFO\INSRT;TRNSPRT>
14	6500043	2	DECAL\WARN\NO;RIDERS
15	6500056	1	DECAL\INFO\ROTATION\STR
16	6500123	1	DECAL\INFO\DIESEL;FUEL
17	6500124	1	DECAL\INFO\HYD;OIL
18	6500132	1	DECAL\INFO\ENG;SERV
19	6500110	1	DECAL\WARN\WAIT;FOR;MVMNT
20	6500139	2	DECAL\INFO\FOLDING;CNVYR
21	6500142	1	DECAL\INFO\TUB;ROTATON;>
22	6500146	2	DECAL\LOGO\MFG.BY;HYBSTR>
23	6500149	1	DECAL\INFO\WINCH;SAFETY

74 SLUGBUSTER

SLUGBUSTER OPERATION

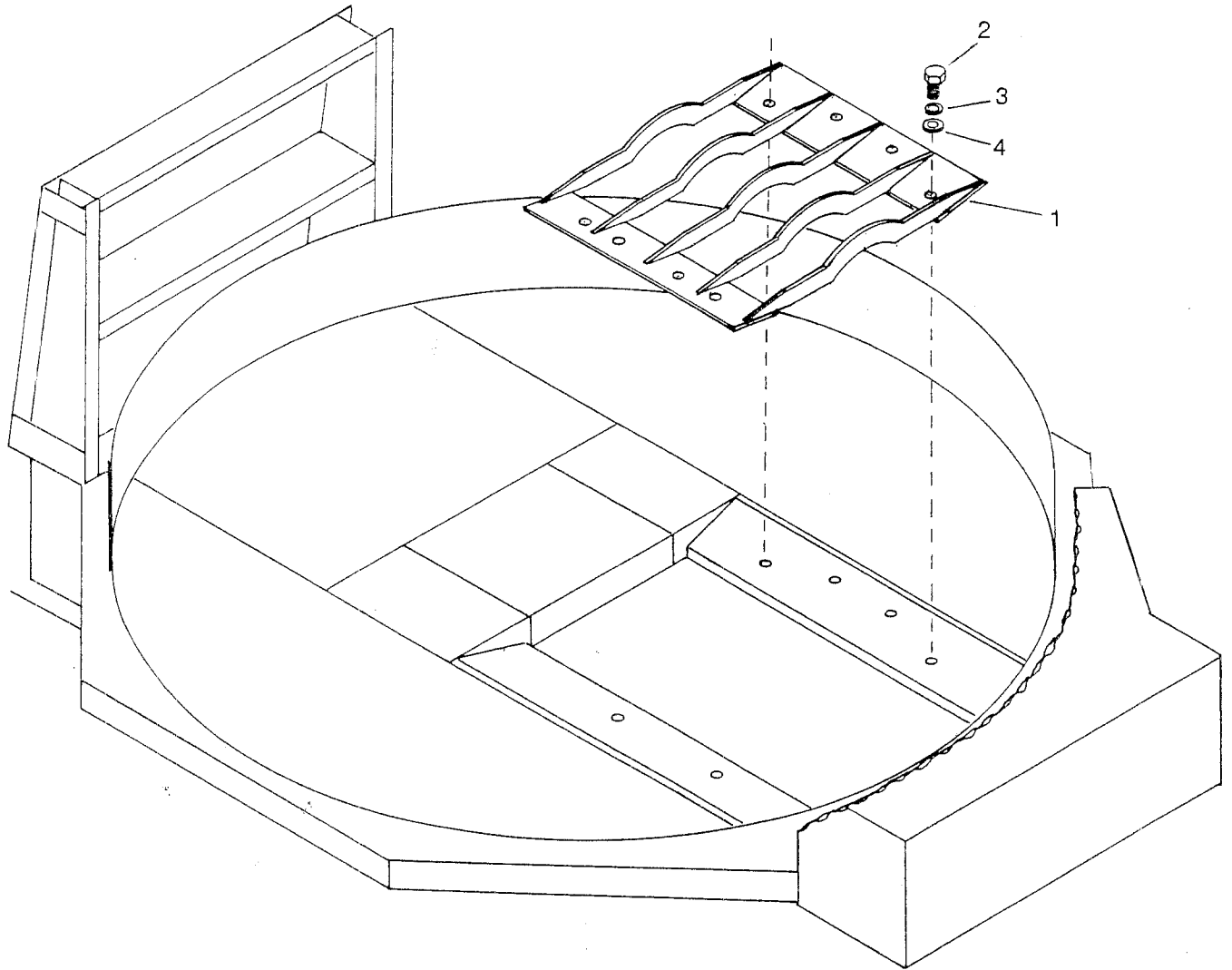
The Slugbuster is a one-piece metal bar with steel fingers that protrude over the infeed side of the cylinder. Hammers pass by the "fingers" to create a slicing action that prevents slugs of materials from being drawn into the mill. The slicing action also acts as an initial grinding of long material before it passes through the screen.



ITEM	PART NO.	QTY.	DESCRIPTION
1	4500528	1	Slugbuster H-1100-E
2	4800079	4	5/8" x 2-1/2" Bolt
3	5000003	4	5/8" Lock Washer
4	5000002	4	5/8" Flat Washer
5	4500532	1	Slugbuster W/Sp. & Bolts

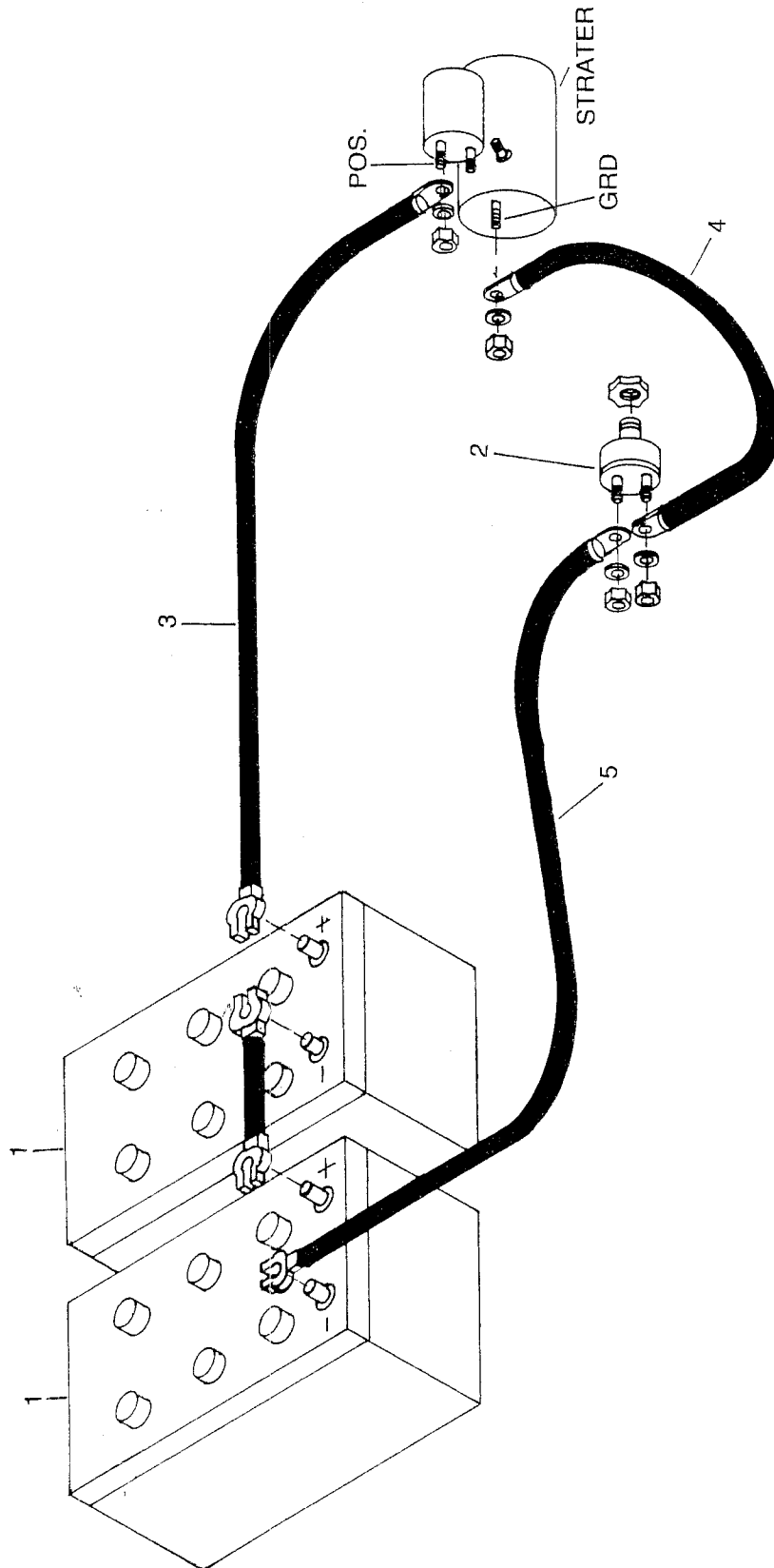
OPTION MILL GRATE

75

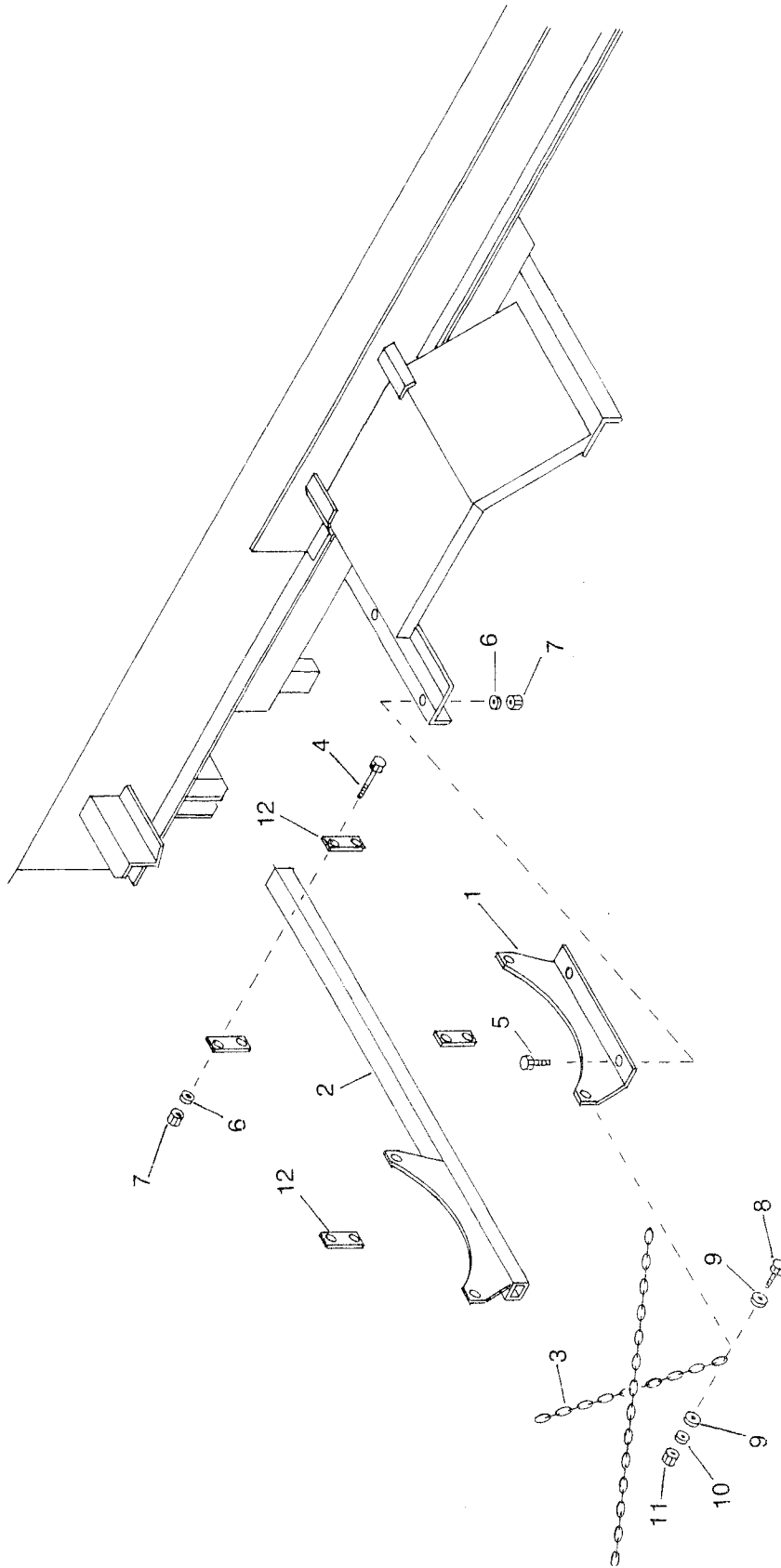


ITEM	PART NO	QTY	DESCRIPTION
1	4501084	1	GRATE\MILL\H1100
2	4800079	8	BOLT\HEX\5/8X2-1/2
3	5000003	8	WASH\LOCK\5/8
4	5000002	8	WASH\FLAT\5/8
	4500605	1	TUB\MILL\GRATEKIT H1100E

76 BATTERY DISCONNECT SWITCH CAT



78 SCREEN RACK

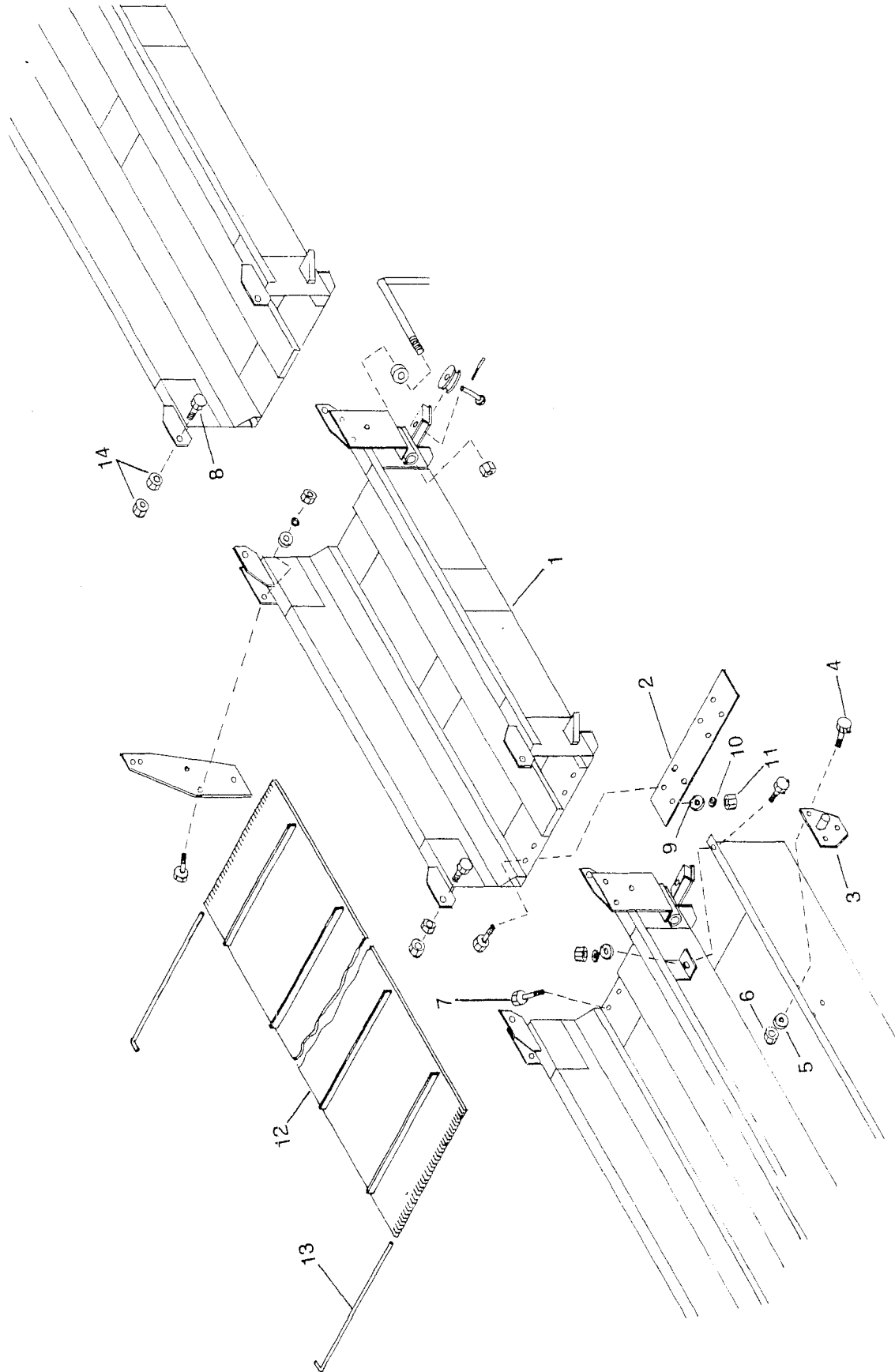


SCREEN RACK

79

ITEM	PART NO	QTY	DESCRIPTION
1	4500392	1	SCRN RACK FRONT
2	4500393	1	SCRN RACK REAR
3	1100030	11 ft.	CHAIN\3/16\PROOF-COIL
4	4800262	4	BOLT\HEX\1/2X7-1/2\>
5	4800018	2	BOLT\HEX\1/2X1-1/4
6	5000006	6	WASH\LOCK\1/2
7	4900001	6	NUT\HEX\1/2\NC
8	4800142	4	BOLT\HEX\3/8X1-3/4
9	5000001	8	WASH\FLAT\3/8
10	5000019	4	WASH\LOCK\3/8
11	4900002	4	NUT\HEX\3/8\NC
12	4500394	4	SCRN RACK STRAP

80 OPTION 4 FT. CONVEYOR EXTENSION



OPTION 4' CONVEYOR EXTENSION

81

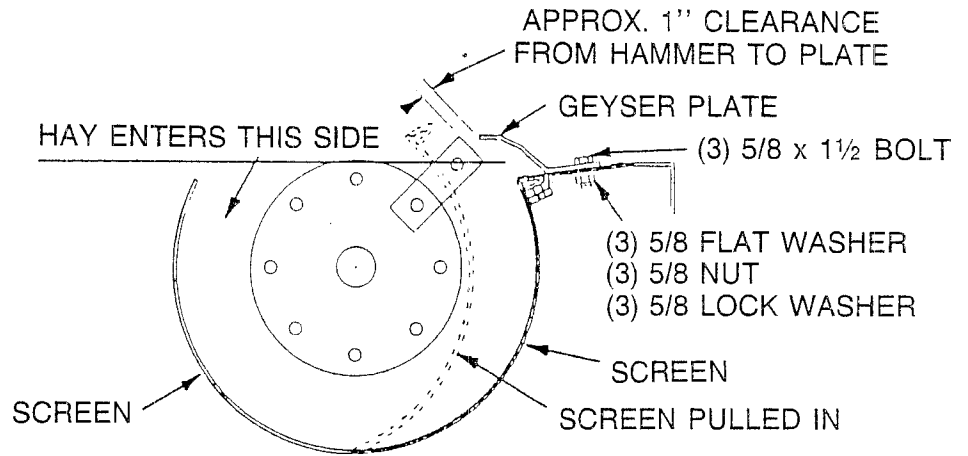
ITEM	PART NO	QTY	DESCRIPTION
1	4500396	1	FRM\CNVYR\4FT-XTN
2	4500397	1	PL\CONN\CNVYR
3	4500398	2	LOCK\CNVYR
4	4800003	6	BOLT\HEX\3/8X1
5	5000019	6	WASH\LOCK\3/8
6	4900002	6	NUT\HEX\3/8\NC
7	4800018	8	BOLT\HEX\1/2X1-1/4
8	4800010	2	BOLT\HEX\5/8X2
9	5000004	8	WASH\FLAT\1/2
10	5000006	8	WASH\LOCK\1/2
11	4900001	12	NUT\HEX\1/2\NC
12	1700039	1	BELT\CNVYR\18X8'-0"
13	1700052	2	LCNG\CBL\1/8X18\NYL
14	4900005	4	NUT\HEX\5/8\NC
15	5600017	1	46' CABLE 1/4
	4500604		XTN\CNVYR\4FT\KIT

82 OPTIONS

GEYSER PLATE

The purpose of the Geyser plate is to prevent hay spillage. When the tub runs out of material to be ground, the hammer tends to throw material into the air. The Geyser Plate deflects this material preventing spillage.

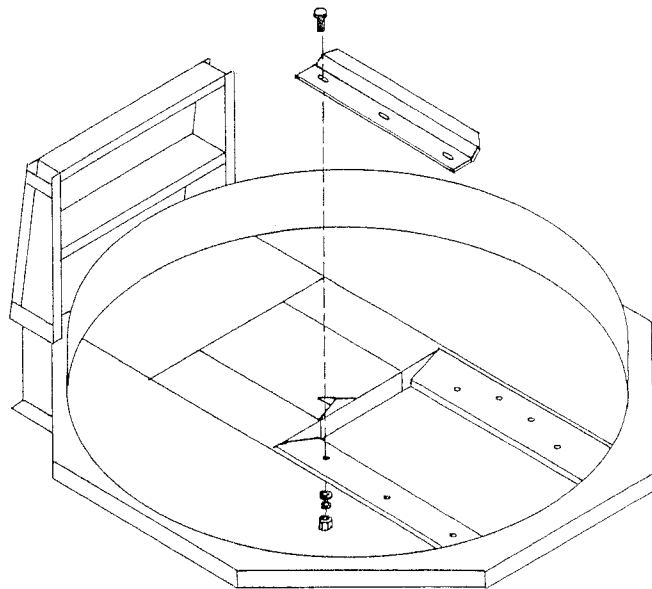
HAYBUSTER TUB GRINDERS GEYSER PLATE



REAR VIEW OF CYLINDER

Locate Geyser Plate as shown with about 1" clearance to hammer tip.
 Drill (3) 11/16" holes through Floor Plate.
 Pull Screen in to install 5/8" nuts.
 Relocate Screen.

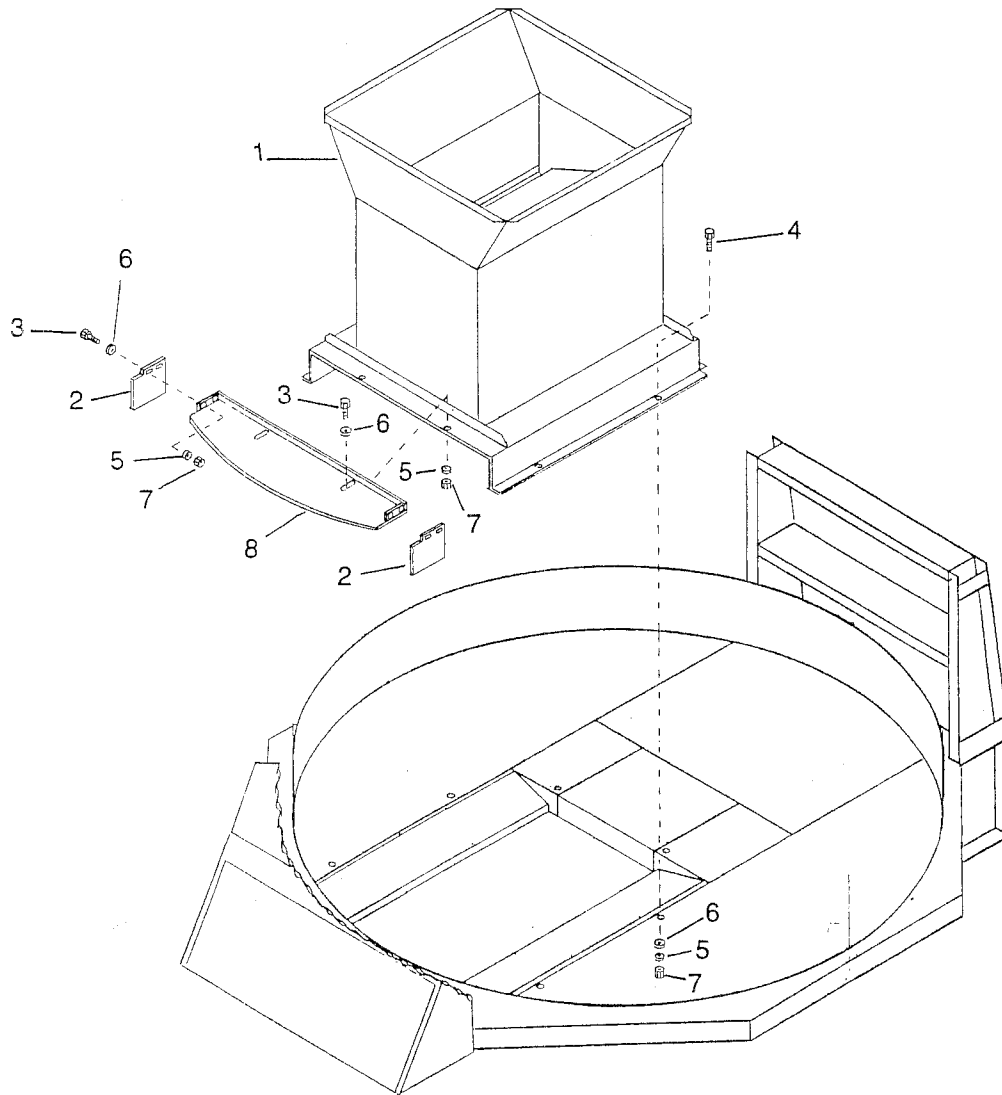
H-1100-E Plate is 45-1/2" Long.



ITEM	PART NO.	QTY.	DESCRIPTION
1	4500275	1	Geyser Plate H-1100-E
2	4800106	3	5/8" x 1-1/2" Bolt
3	5000002	3	5/8" Flat Washer
4	5000003	3	5/8" Lock Washer
5	4900005	3	5/8" Nut

H-1100-E GRAIN GRINDING HOPPER

The Feed Hopper Attachment is specially designed for grinding small grains when they are infed with an auger. It should not be used when grinding hay.

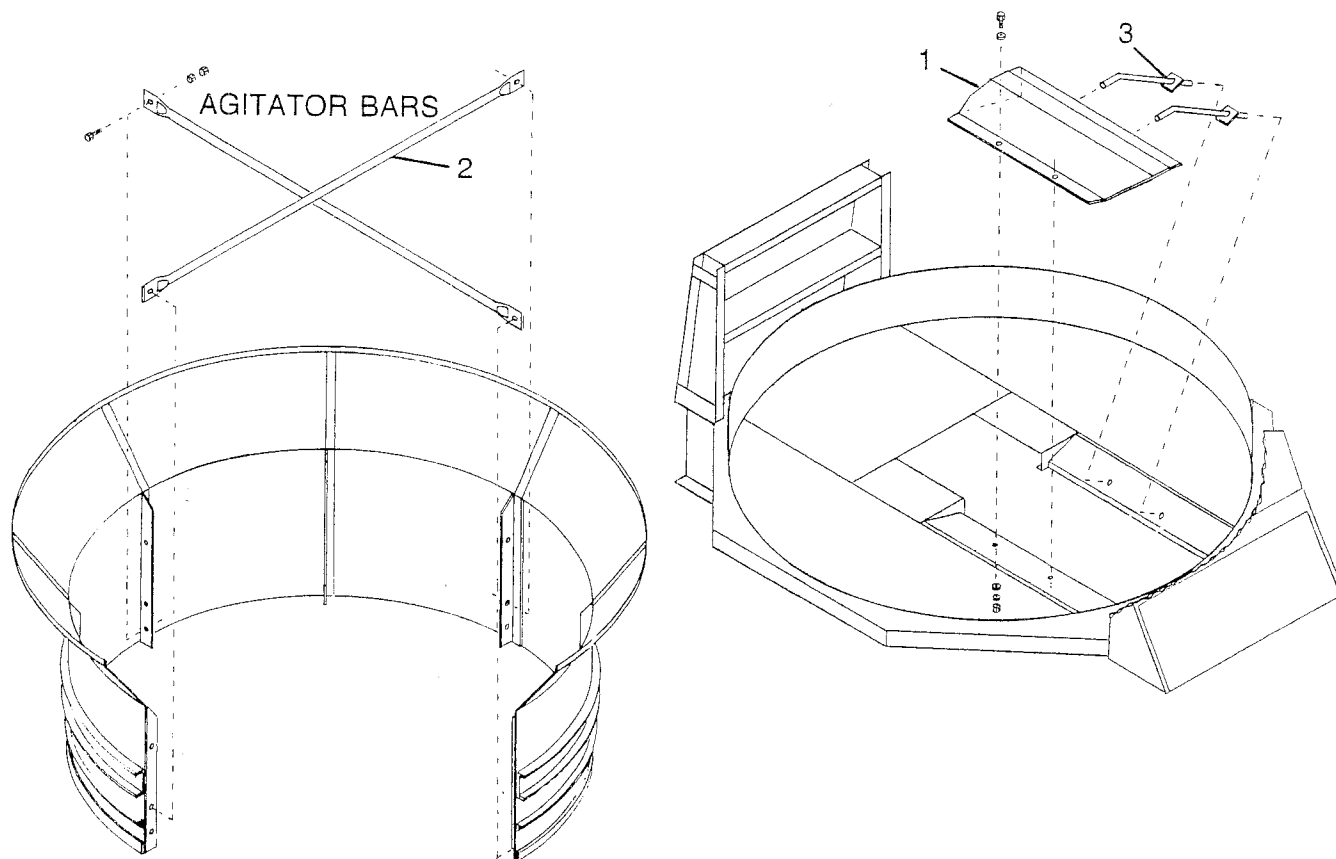


ITEM	PART NO	QTY	DESCRIPTION
1	4500114	1	HPPR\GRAIN\
2	4500115	1	PL\HPPR\GRAIN
3	4800003	6	BOLT\HEX\3/8X1
4	4800098	6	BOLT\HEX\3/8X1-1/4\NC
5	5000019	12	WASH\LOCK\3/8
6	5000001	12	WASH\FLAT\3/8
7	4900002	12	NUT\HEX\3/8\NC
8	4500261	2	PL\FLLR\HPPR\GRAIN
	4500608		TUB\GRNDHOPPER\KIT H1100E

84 OPTIONS

EAR CORN ATTACHMENT

The Ear Corn Attachment is designed specially for grinding ear corn. It should not be used when grinding hay, other bulk materials or small grains. This attachment fits directly over the rotor and bolts to the screen hold down side of the rotor. An agitator bar inside the tub moves ear corn to the rotor.



ITEM	PART NO.	QTY.	DESCRIPTION
1	4500405	1	Cylinder Cover
2	4500128	2	Cross Pipe
3	4500260	2	Cylinder Cover Anchor Rods

NOTE: If ordering replacement parts, check Cylinder Cover.
Do Anchor Rods mount above or below cover plate.