

Farm King

OPERATOR AND PARTS MANUAL

Backsaver Auger

Model 1262, 1272, 1282 & 1292



Table of Contents

Introduction	5
Safety.....	6
• Safety	6
• Operator Qualifications	6
• General Safety	7
• Operation Safety	7
• Maintenance Safety	8
• Transport Safety	8
• Electrical Safety	9
• Safe Operation Instructions	9
• Safety Decals	10
Operation	13
• Moving Instructions	13
• Hitch Adjustment	14
• Operating Recommendations	15
• Cylinder Lift	15
Maintenance	16
• Lubrication	16
Troubleshooting	18
Assembly.....	20
• 6 Bolt Hub Assembly	20
• Assembly Instructions	23
Specifications.....	27
• Auger Height and Reach	28

Parts	30
• 1262, 1272, 1282 & 1292 Parts.....	30
• Decals.....	35
• Weasler 35R 50° CV x 40" Separable IID - 1262 & 1272	36
• Weasler 55R 50° CV x 40" Separable IID - 1282 & 1292	37
• Weasler 12N Internal IID.....	38
• Drive Section Gear Box (Lower)	39
• Hopper Gear Box (Upper)	40
 Winch	 42
 Warranty	 44

Manufacturer's statement: for technical reasons Buhler Trading Inc. reserves the right to modify machinery design and specifications provided herein without any preliminary notice. Information provided herein is of descriptive nature. Performance quality may depend on grain type, grain moisture, auger elevation and other factors.

Introduction

To the owner

Thank you for purchasing a Farm King 1262, 1272, 1282 or 1292 Backsaver Auger.

Farm King Backsaver Augers have been designed to provide many years of profitable and dependable service. To assure maximum performance of your auger, it is mandatory that you thoroughly study the operator's manual and follow its recommendations. **PLEASE EXAMINE YOUR UNIT CLOSELY AND READ THE ASSEMBLY INSTRUCTIONS TO SEE THAT YOUR UNIT IS PROPERLY ASSEMBLED.** Proper operation and maintenance are essential for safety, to maintain performance, and to maximize the life of the auger. When ordering parts or inquiring about the auger, you must include the serial number which is located on the second upright of the lower truss support.

It is the owner's responsibility to:

Operate and maintain this auger in a safe manner and in accordance with all applicable local, state, and federal codes and/or laws.

Make sure each and every operator has read the operator's manual and thoroughly understands safe and correct operating procedures.

Make sure unauthorized people do not operate or are not in the vicinity of the auger while it is in operation.

Maintain the auger in accordance with the maintenance schedule in this manual. Furthermore, as additional technology becomes available, the owner is responsible for improving the safety and reliability of the system.

Fulfill all warranty obligations so as not to void the warranties. Verify the unit is warranty registered prior to making any warranty claims. The warranty section at the back of this manual outlines the warranty policy of Farm King.

Abuse or modifications to the auger that change the performance other than original factory specifications void the warranty.

Farm King reserves the right to make product improvements to the equipment at any time. It shall not be obligated to make such changes to machines already in service.

*The owner, manager and/or operator is responsible for safe, accurate operation and maintenance of the Farm King 1262, 1272, 1282 or 1292 Backsaver Auger.

Safety

Safety Instructions

An Operator's Manual is furnished with each grain auger. Additional or replacement manuals are available. Do not operate the unit before reading and understanding the Operator's Manual. Understand the operating procedures below to avoid personal injury or death.

The alert symbol is used throughout this manual. It indicates attention is required and identifies hazards. Follow the recommended precautions.



The safety alert symbol means...

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Operator Qualifications

- Operation of this portable auger shall be limited to competent and experienced persons. In addition, anyone who will operate or work around this portable auger must use good common sense.
- Some regulations specify that no one under the age of 16 may operate power machinery, including augers. It is your responsibility to know what these regulations are in your own area or situation.
- Current OSHA regulations state in part: At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved*.
- Unqualified persons are to stay out of the work area.

*Federal Occupational Safety & Health Standards for Agriculture Subpart D, Section 1928.57 (a) (6)

Farm King, strongly recommends that all personnel using this auger be trained in the correct operation and safety procedures for this auger. OSHA requires this training. Farm King Manufacturing Corp. recommends periodic reviews of the operation and safety procedures. We include this sign off sheet for your convenience and personal record keeping.

Date	Employer Signature	Employee Signature

General Safety

An auger can collapse and fall on the operator or bystander causing serious injury or death. Always support the discharge end when the following conditions occur:

- While unit is in operation.
- When dismounting the undercarriage.

The accidental tipping or upending of an auger may cause serious injury or death to the operator or bystanders. When the grain flow is shut off to the auger an overbalance situation can occur, suddenly raising the intake of the auger. Adequate anchorage of the intake end or support from bin is required at all times, especially in the following conditions:

- While unit is in operation.
- When moving the auger.
- When raising or lowering the auger.
- Maximum elevation is determined by interference between track car and auger structure. The operator must stop raising the auger before track car reaches the end of the track. Continued lift will cause failure of the winch, lift cable or auger supports, causing auger to collapse, which can result in serious injury or death.
- Contact with rotating flighting will cause serious injury or death.
- Do not stand on the intake cage.
- Keep hands, feet and clothing away from the intake and discharge flighting.

Operation Safety

Intentional or accidental contact with moving parts may result in a serious injury or death. Observe the following operating procedures.

- Keep unqualified persons out of the work area. Always keep children away from the work area.
- All personnel in the area **MUST** know how to stop the tractor in an emergency.
- Keep all safety devices in place.
- Never operate the unit with any shields removed.
- Never operate the unit if the IID rotating shield is not in good working condition.
- 3-point pins must be installed between the auger and tractor to prevent IID separation.
- Verify that the IID is securely attached to the tractor before starting.
- Before starting the tractor, be certain that the PTO is disengaged.
- Operate on level ground.
- Anchor auger discharge end to prevent tipping over in high wind.
- Do not mount excessive weight to the discharge end of the auger.
- Do not use auger or hopper as a crane or hoist.
- Lower the auger after use to prevent accidental tipping or upending.
- Disconnect the hydraulic cylinder hoses from the tractor after positioning to prevent accidental raising or lowering of the auger.
- Do not raise the backsaver feed hopper higher than the drive section inlet when removing the auger from the bin. Doing so may cause the hopper to fall off the drive section and cause personal injury.
- When raising or lowering the auger, be sure the wheels of the auger or towing unit are free to move. Because of the scissors action of the undercarriage assembly, if the wheels cannot

move, it will result in damage to the unit.

- Do not adjust, service, lubricate, clean, unclog or move the mechanism until all power is shut off.
- Never step across any rotating member.
- Do not stand on the intake hopper.
- Do not insert fingers, hands, feet, clothing, sticks, boards, wrenches, bars, etc. into the mesh intake guard when in operation.
- Keep hands, feet, hair and clothing away from moving parts while in operation.
- Keep off the equipment at all times.
- Make certain that everyone is clear of the equipment at all times.
- Make certain that everyone is clear of the equipment before applying power.
- Keep children, visitors and all untrained personnel away from machine while in operation.

Maintenance Safety

- Shut off all power and lock the power off before servicing, adjusting or repairing.
- Lubricate at recommended intervals with recommended lube and/or grease.
- Never check for hydraulic leaks using any part of the human body as oil injection can occur causing serious injury.
- Keep decals exposed. Do not cover.
- Keep decals clean. Replace any damaged decals.
- Keep all shields in place. Repair after adjustment or maintenance.

Transport Safety

Care must be used when moving or transporting the auger. Accidental tipping or upending of an auger can occur and may cause serious injury or death to the operator or bystanders.

- Keep children and unnecessary personnel out of the erection area.
- Never move the auger manually.
- Keep all persons off the auger and hopper during transport, raising or lowering.
- Never allow anyone under the auger when raising or lowering.
- Before erecting the auger, check the area for overhead obstructions.
- Double check for electrical power lines.
- Inspect the lift cable before erecting the auger and replace if it's frayed or damaged.
- Do not allow the cable to "stack up" on one side of the hopper winch drum.
- Never guide the cable with any part of the human body.
- Be sure auger is empty before attempting to move.
- Never push on the undercarriage of the auger.
- Remove the IID from the tractor before moving the auger.
- Do not attempt to increase the auger height by placing wheels on blocks, dirt piles, etc.
- Erect the auger on level ground, free of obstructions and holes.
- Verify that all anchors on the auger have been removed before attempting to move.
- Transport the auger in the full down position with the tube supported by the transport hoist.
- Make certain that wheels on the axle are free to move before raising or lowering.
- Do not transport on slopes greater than 20 degrees to the horizontal.
- Use caution when turning the auger.

- Do not transport faster than 20 mph (32 km/h).
- Disconnect the hydraulic cylinder hoses from the tractor after positioning to prevent accidental raising or lowering of the auger.
- Before raising the auger from the transport position, lower the hopper to within a few inches of the ground. This will give clearance between the hopper and the undercarriage. Check for clearance as the auger is raising. Hopper pivot should be free during operation and transport.

Electrical Safety

Contact with overhead wires may cause electrocution of the operator or bystanders. Contact with overhead obstructions may cause collapse or tipping of the auger or may cause the overhead obstruction to fall. In both cases the operator or bystander can be seriously injured or killed.

Observe the following:

- Tow the auger at slow speed and in the down position.
- Raise or lower the auger slowly.
- Keep auger away from electrical power lines.

Electrical malfunction can cause electrocution of the operator or bystanders.

Observe the following rules:

- Disconnect power and electrical driven units before resetting motor overloads.
- Do not operate electric motor equipped units until unit is properly grounded.

Safe Operation Instructions

There are several decals on the grain auger and its attachments with safety instructions.

Read and understand these safety alerts before operating.



DANGER

Danger indicates a hazard that, if not avoided, will cause serious injury or death. Safety signs with "danger" are typically near specific hazards.



WARNING

Indicates a hazard that, if not avoided, could cause serious injury or death. Hazards exposed when guarding is removed typically have "warning" as the signal word. Safety signs with "warning" are typically near specific hazards. "Warning" may also alert against unsafe practices.



CAUTION

Indicates a hazard that, if not avoided, may cause minor or moderate injury. "Caution" may also alert against unsafe practices.

Safety Decals



WARNING

AN OPERATOR'S MANUAL IS FURNISHED WITH EACH GRAIN AUGER. ADDITIONAL OR REPLACEMENT MANUALS ARE AVAILABLE. DO NOT OPERATE THE UNIT BEFORE READING AND UNDERSTANDING THE OPERATOR'S MANUAL. UNDERSTAND THE OPERATING PROCEDURES BELOW TO AVOID PERSONAL INJURY OR DEATH.

Intentional or accidental contact with moving parts may result in a **SERIOUS INJURY OR DEATH**. Observe the following operating procedures.

- ▲ **KEEP ALL SAFETY DEVICES IN PLACE!**
- ▲ **DO NOT ADJUST, SERVICE, LUBRICATE, CLEAN, UNCLUG OR MOVE THE MECHANISM UNTIL ALL POWER IS SHUT OFF!**
- ▲ **KEEP HANDS, FEET AND CLOTHING AWAY FROM MOVING PARTS WHILE IN OPERATION!**
- ▲ **KEEP OFF THE EQUIPMENT AT ALL TIMES!**
- ▲ **MAKE CERTAIN THAT EVERYONE IS CLEAR OF THE EQUIPMENT AT ALL TIMES!**
- ▲ **MAKE CERTAIN THAT EVERYONE IS CLEAR OF THE EQUIPMENT BEFORE APPLYING POWER!**
- ▲ **KEEP CHILDREN, VISITORS AND ALL UNTRAINED PERSONNEL AWAY FROM MACHINE WHILE IN OPERATION!**

Care must be used when moving or transporting the auger. Accidental tipping or upending of an auger can occur and may cause **SERIOUS INJURY OR DEATH** to the operator or bystanders.

- ▲ **NEVER MOVE THE AUGER MANUALLY!**
- ▲ **BE SURE AUGER IS EMPTY BEFORE ATTEMPTING TO MOVE!**
- ▲ **NEVER PUSH ON THE UNDERCARRIAGE OF THE AUGER!**
- ▲ **TOW THE AUGER AT SLOW SPEED AND IN THE DOWN POSITION!**
- ▲ **ALWAYS TEST THE INTAKE END OF THE AUGER FOR DOWNWARD WEIGHT WHEN ATTACHING OR RELEASING!**
- ▲ **NEVER RAISE THE HITCHPOINT HIGHER THAN THE VEHICLE'S TOW BAR.**

An auger can collapse and fall on the operator or bystanders causing a **SERIOUS INJURY OR DEATH**. Always support the discharge end when the following conditions occur:

- ▲ **WHILE UNIT IS IN OPERATION!**
- ▲ **WHEN DISMOUNTING THE UNDERCARRIAGE!**

The accidental tipping or upending of an auger may cause **SERIOUS INJURY OR DEATH** to the operator or bystanders. When the grain flow is shut off to the auger an overbalance situation can occur, suddenly raising the intake of the auger. Adequate anchorage of the intake end or support from bin is required at all times, especially in the following conditions:

- ▲ **WHILE UNIT IS IN OPERATION!**
- ▲ **WHEN MOVING THE AUGER!**
- ▲ **WHEN RAISING OR LOWERING THE AUGER!**

▲ **Maximum elevation is determined by interference between track car and auger structure. The operator MUST STOP RAISING the auger BEFORE track car reaches the end of the track. Continued lift will cause failure of the winch, lift cable or auger supports, causing auger to collapse, which can result in SERIOUS INJURY OR DEATH!**

Contact with overhead wires may cause **ELECTROCUTION** of the operator or bystanders. Contact with overhead obstructions may cause collapse or tipping of the auger or may cause the overhead obstruction to fail. In both cases the operator or bystander can be **SERIOUSLY INJURED OR KILLED!** Observe the following:

- ▲ **TOW THE AUGER AT SLOW SPEED AND IN THE DOWN POSITION!**
- ▲ **RAISE OR LOWER THE AUGER SLOWLY!**

Electrical malfunction can cause **ELECTROCUTION** of the operator or bystanders. Observe the following rules:

- ▲ **DISCONNECT POWER AND ELECTRICAL DRIVEN UNITS BEFORE RESETTING MOTOR OVERLOADS!**
- ▲ **DO NOT OPERATE ELECTRIC MOTOR EQUIPPED UNITS UNTIL UNIT IS PROPERLY GROUNDED!**

Contact with rotating flighting will cause **SERIOUS INJURY OR DEATH!**

- ▲ **DO NOT STAND ON THE INTAKE CAGE!**
- ▲ **KEEP HANDS, FEET AND CLOTHING AWAY FROM THE INTAKE AND DISCHARGE FLIGHTING!**

06/11/0

SZ06010



SZ06527



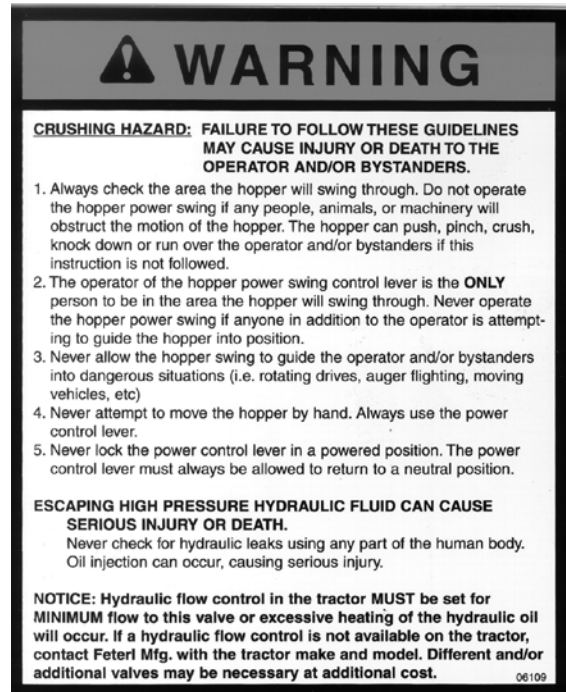
SZ06023



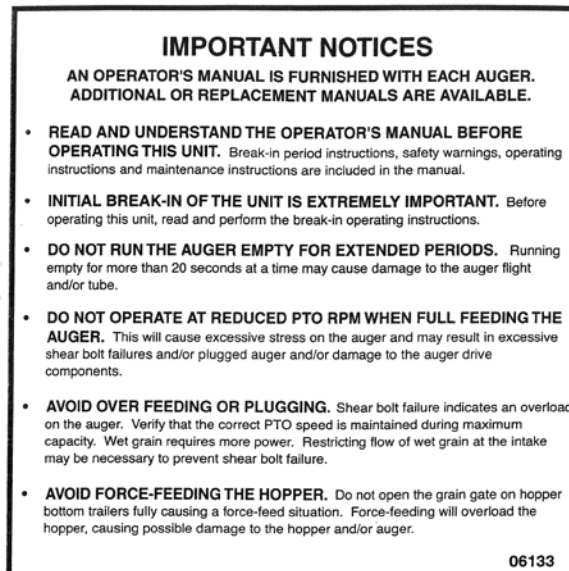
SZ06049



SZ06131



SZ06109



SZ06133

Operation Instructions

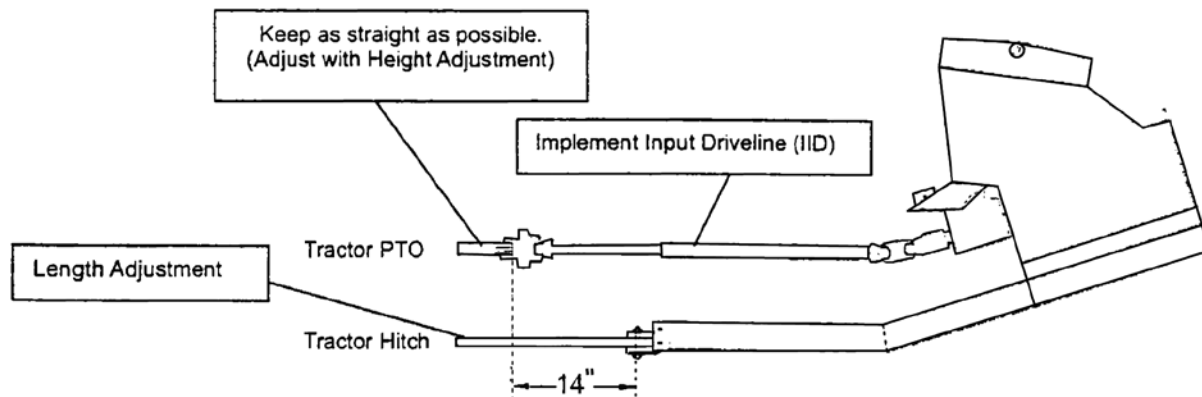
Farm King Portable Grain Augers are designed primarily to convey grain to and from grain storage bins or buildings. This machine must have a break-in-period with different operating conditions than for normal use. The tube and flighting must get a polished surface through use. Once the new auger has polished (some need 20 bushels and some need several hundred bushels) it will run smooth at recommended speed.

1. Adjust the tractor hitch as shown on page 14.
2. It is essential to inspect your drive before adding power.
3. During the break-in-period run the tractor at slow idle until grain begins to flow from the discharge. For the first 500 bushels, operate at the slow speed and restrict the flow of grain at the intake. Gradually increase the speed until operating at full PTO speed. Do not run empty during break-in period.
4. After the break-in period always operate at PTO speeds between 500 and 540 rpm. Never run tractor at slow idle when full feeding the auger. Do not operate when empty as unnecessary wear occurs.
5. Do not open the grain gate on hopper bottom trailers fully as force-feeding may occur, causing an overload condition with possible damage to the unit.
6. Do not operate at slow PTO speed unless the flow of grain is also reduced.
7. After completing the transfer of grain, run the unit until the grain has been emptied from it.

Moving Instructions

1. Connect the hydraulic hoses to the tractor, raise/lower the auger to clear any obstructions.
2. Raise the hopper into transport position before moving the auger.
3. Remove the implement input driveline (IID) from the tractor whenever moving the auger. Failure to do this every time may cause damage to the CV joint in the IID.
4. Only transport the auger in the fully down position.
5. Do not tow over 20 mph (32 km/h).

Hitch Adjustment



CAUTION

It is important to adjust your hitch. The above drawing is your guide to proper hitch adjustment. Improper adjustment can cause damage and/or excessive wear on u-joint assemblies.



NOTICE

The shielding has been removed in the illustration for parts demonstration only. Install all shielding before operating the unit.

The tractor should be positioned to the auger so that the distance from the end of the tractor PTO shaft is 14" (356 mm) from the hitch pin. Use tractor drawbar length adjustment. This is so the IID does not bottom out when the auger is raised to maximum position. Vertical adjustment is a trial and error process. The goal is to have an equal angle on the IID u-joints in the operating position.

The IID should be disconnected from the tractor while positioning the auger, otherwise physical damage may result to the IID or auger.

The result of improper hitch adjustment is breaking the ball inside the CV joint. Bending in excess of 50° on the CV joint will also break the ball inside the CV joint. Constant angle applications require more frequent greasing.



NOTICE

3/8" x 1" (10 x 25 mm) grade 5 shear bolt is located on the IID.
5/16" x 3" (8 x 76 mm) grade 2 shear bolt is located on the hopper input driveline.



CAUTION

Using other than a specified grade shear bolt may result in damage to drive components.

Operating Recommendations

- Do not operate auger empty for extended periods. If the auger is run empty at 540 rpm for more than 20 seconds at a time, damage to the auger may occur. This is a shorter interval than is normally experienced between trucks and/or different compartments. Slowing the tractor during this time is helpful, but damage may still occur. The auger must be stopped or damage may occur. This damage may result in the auger vibrating and shaking at various PTO speeds. Once this damage has occurred, replacement of both tube and flight is necessary.
- Do not start or stop the auger at maximum PTO speed. Start and stop the auger at reduced PTO speed to minimize shear bolt failure caused by sudden starts and stops.
- Do not operate at reduced PTO rpm when full feeding the auger. This will cause excessive stress on the auger and may result in excessive shear bolt failures and/or plugged auger and/or damage to the auger drive components.
- Avoid over feeding or plugging. Shear bolt failure indicates an overload on the auger. Verify that the correct PTO speed (540 rpm) is maintained during maximum capacity. Wet grain requires more power. Restricting flow of wet grain at the intake may be necessary to prevent shear bolt failure.
- Avoid force feeding the hopper. Do not open the grain gate on hopper bottom trailers fully, causing a force feed situation. Force feeding will overload the hopper, causing possible damage to the hopper and/or auger.
- Empty the auger of grain before stopping. Failure to empty the auger will cause excessive stress on the auger and may result in excessive shear bolt failures and/or plugged auger and/or damage to the auger drive components.
- Always disconnect the cylinder hydraulic hoses from the tractor after the auger is raised or lowered to the desired position. Accidental movement of the tractor hydraulic control valve may cause damage and/or personal injury.
- Always raise the hopper before moving the auger. Dragging the hopper may cause damage.
- Replace shear bolts only with specified size and grade. When the specified size and grade of shear bolt shears, it is the operator's warning that an extreme condition exists, normally requiring a reduction of flow in the intake hopper. Replacing with a higher-grade bolt may result in damage to the drive components.

Cylinder Lift

1262, 1272, 1282 and 1292 backsaver augers are equipped with a hydraulic cylinder to provide lift.

Any settling of auger is due to hydraulic oil leaking past the cylinder piston. If the auger will not lower, dirt in the counterbalance valve may have blocked the piston from operating the valve. The downside of the counterbalance valve should be removed and cleaned.

- Always disconnect the hydraulic hoses from the tractor after the auger is raised or lowered to the desired position. Inadvertent movement of the hydraulic valve on the tractor may cause damage or personal injury.
- Never check for hydraulic leaks using any part of the human body. Oil injection can occur, causing serious injury.

Maintenance

Auger shear bolt:

12" backsaver auger uses a 3/8" x 1" (10 x 25 mm), grade 5 shear bolt with oval locknut located on the IID.

- Replace shear bolt with specified size and grade only. When the specified size and grade of shear bolt shears, it is the operator's warning that an extreme condition exists, normally requiring a reduction of flow into the intake hopper. Replacing with a higher-grade bolt may result in damage to the drive components.

Shear bolt failure indicates an overload on the auger. Verify that the auger is started and stopped at reduced PTO speed. Verify that the correct PTO speed (540 rpm) is maintained during maximum capacity. Wet grain requires more power. Restricting flow of wet grain at the intake may be necessary to prevent shear bolt failure. Check for foreign objects (sacks, can, rags, etc.) in the tube. Objects may go part way up the tube and wedge between the flights, blocking the grain flow.

Hopper shear bolt:

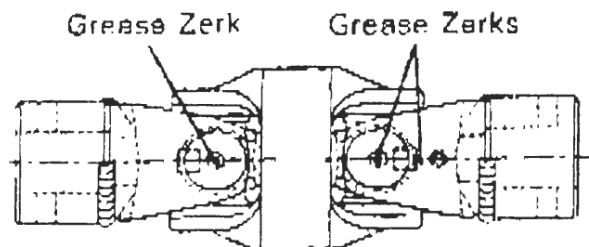
12" backsaver auger hopper uses 5/16" x 3" (8 x 76 mm), grade 5 shear bolt located in the drive section.

- Replace shear bolt with specified size and grade only. When the specified size and grade of shear bolt shears, it is the operator's warning that an extreme condition exists, normally requiring a reduction of flow into the intake hopper. Replacing with a higher-grade bolt may result in damage to the drive components.

Lubrication

Hopper

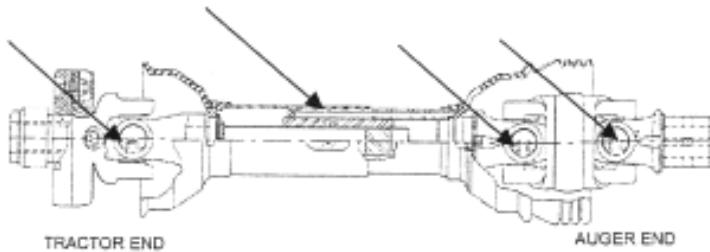
- The CV joint in the hopper has 3 grease zerks. Lubricate the IID every 4 hours with NLGI#2E.P. grease containing no more than 1% molybdenum disulfide.
- The hanger bearing in the hopper must be greased every 8 hours of operation with all-purpose grease.
- The chain case, located at the end of the hopper, is serviced with all-purpose grease at the factory. Maintain the grease to just below the lower bearings. Add 1 lb (0.45 kg) of grease at the start of every season.



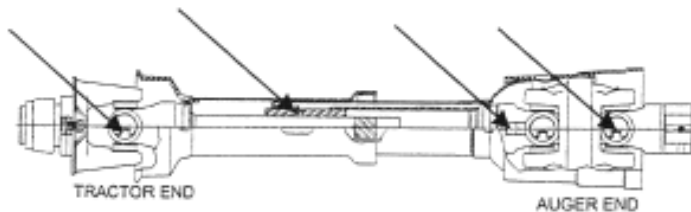
Tractor to main auger

- 12" backsaver augers use an IID with 4 grease zerks. 3 of the zerks are located on the CV joint on the implement end of the IID and 1 is located on the u-joint on the tractor end. Lubricate the IID every 8 hours with NLGI#2E.P. grease containing no more than 1% molybdenum disulfide. NLGI#2E.P. grease containing more than 3% molybdenum disulfide may be used on the telescoping and CV ball and socket members only

1262 and 1272

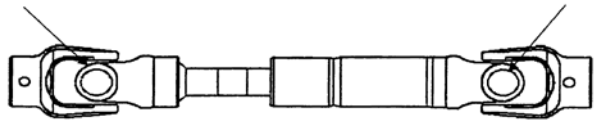


1282 and 1292



Internal power shaft

- 12" backsaver augers use a power shaft between the two gearboxes. The grease zerks need to be lubricated every 8 hours with NLGI#2E.P. grease containing no more than 1% molybdenum disulfide.



Gearbox

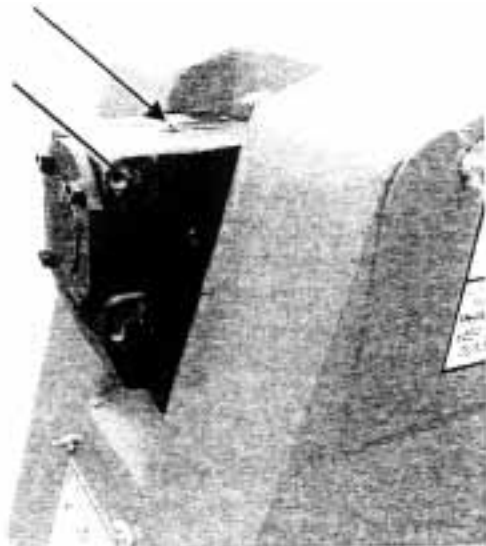
The gearboxes are filled at the factory. Leakage may occur during shipment. Check the lube level before using. Use SAE #90 grease. All 12" models take 12 oz in each gearbox. For best results, maintain gearboxes at 1/2 full.

Oil level

- To check oil level, remove the level plug located as shown. The oil should be level with the bottom of this opening. If more oil is needed, use the recommended gear oil listed above.

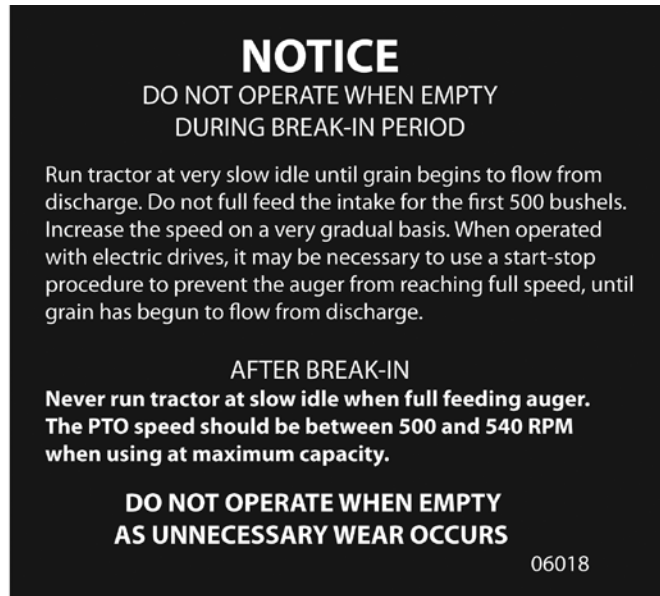
Oil change information

- The winch vent/fill and drain plugs are located as shown. Oil should be changed after the first 24 hours of operating time. Then the oil should be changed every 100 hours of operating time, or every 6 months, whichever comes first.



Troubleshooting

1. The most frequent problem is created by the operator who does not read or heed this sign that is placed on the tube just below the gearbox on every new auger.



If the new auger is vibrating and jumping up and down, the operator has violated the above break-in rules and may already have damaged the auger. Once the new auger has polished (some need 20 bushels and some need several hundred bushels) it will run smooth at recommended speed. After break-in, run the tractor PTO at 540 rpm to obtain the required flighting speed for near capacity.

2. Plugging. Grain build-up under the spout from an over-filled bin should cause the optional relief discharge to open. Snow or ice mixed with grain during difficult harvest seasons can cause relief discharge to freeze and fail to function. Check this frequently when operating under such conditions.

Plugging can occur when full feeding the hopper with slow auger flighting speed. This permits the flights to overfill. See troubleshooting #1. Plugging can be caused by foreign objects (such as rags, sacks, cans, etc.) which go part way up the tube and wedge between the flights. This can restrict or completely stop the flow of grain.

When the flighting will not turn:

- if no foreign object is present
- if the bin is not over-filled
- if the grain is dry

you should remove the flighting and check it. Also check the flighting connection for damage to be sure the lower half flighting laps the upper half flighting. See the diagram in the assembly instructions.

A rare and unexplainable plugging can occur when temperatures, humidity and moisture content of the grain reach a certain level, along with ice or snow. Under these conditions, sometimes the auger will freeze. Then placing in an environment above 32° F (0° C) may loosen the auger. Most of the time when the auger plugs due to these conditions, it plugs so tight you may damage the auger clearing it. Pliers, pipe wrenches, chains and patience are necessary to clear the machine. Problems seem to be greater when operating in snow or ice. The only solution seems to be limiting intake by covering some of the intake hopper.

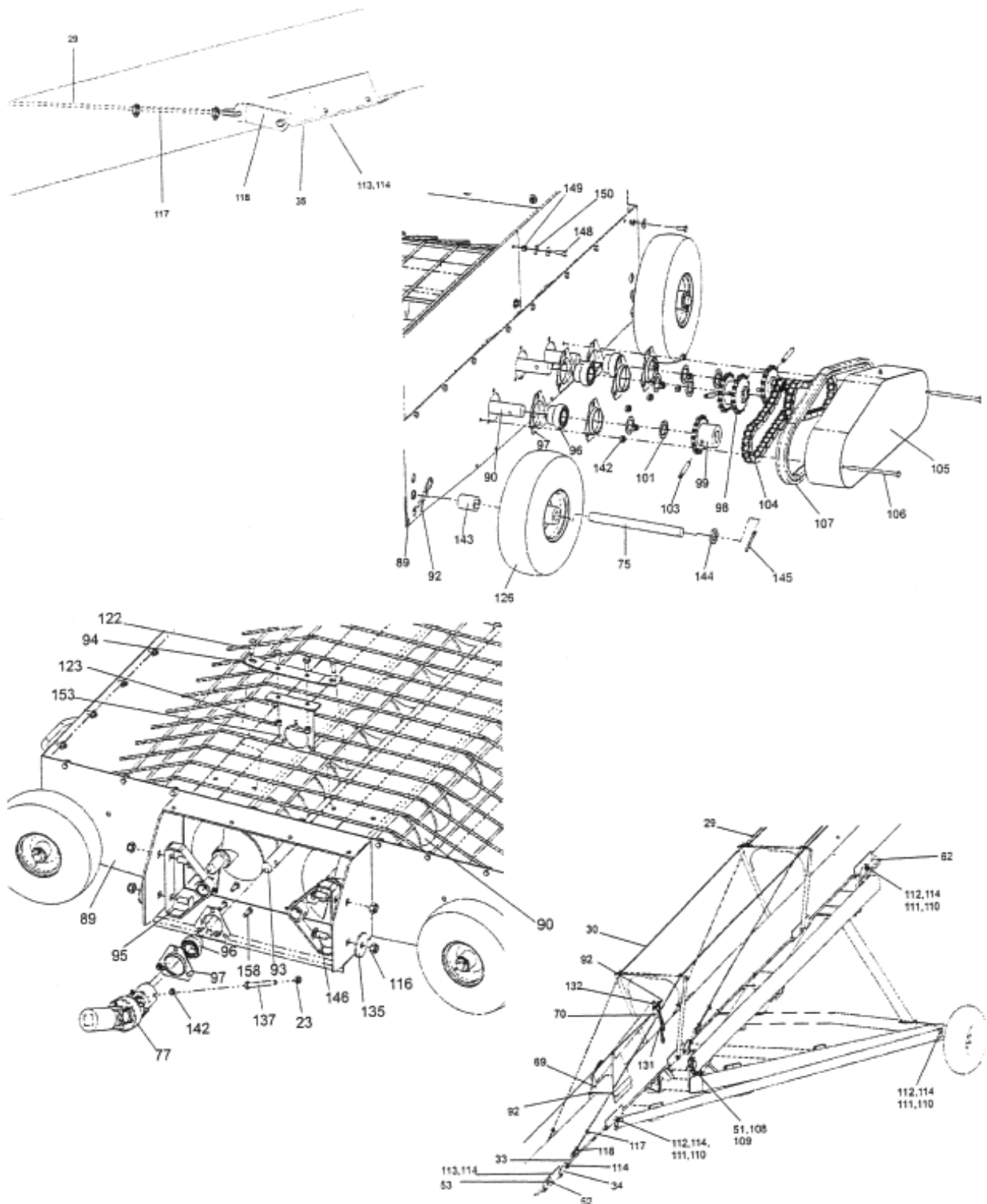
Plugging can occur in a situation like unloading a hopper bottom trailer with the gate fully open, causing force feeding and creating an overload. The situation becomes more apt to cause problems when auger flighting speed is very low, permitting the flights to over-fill.

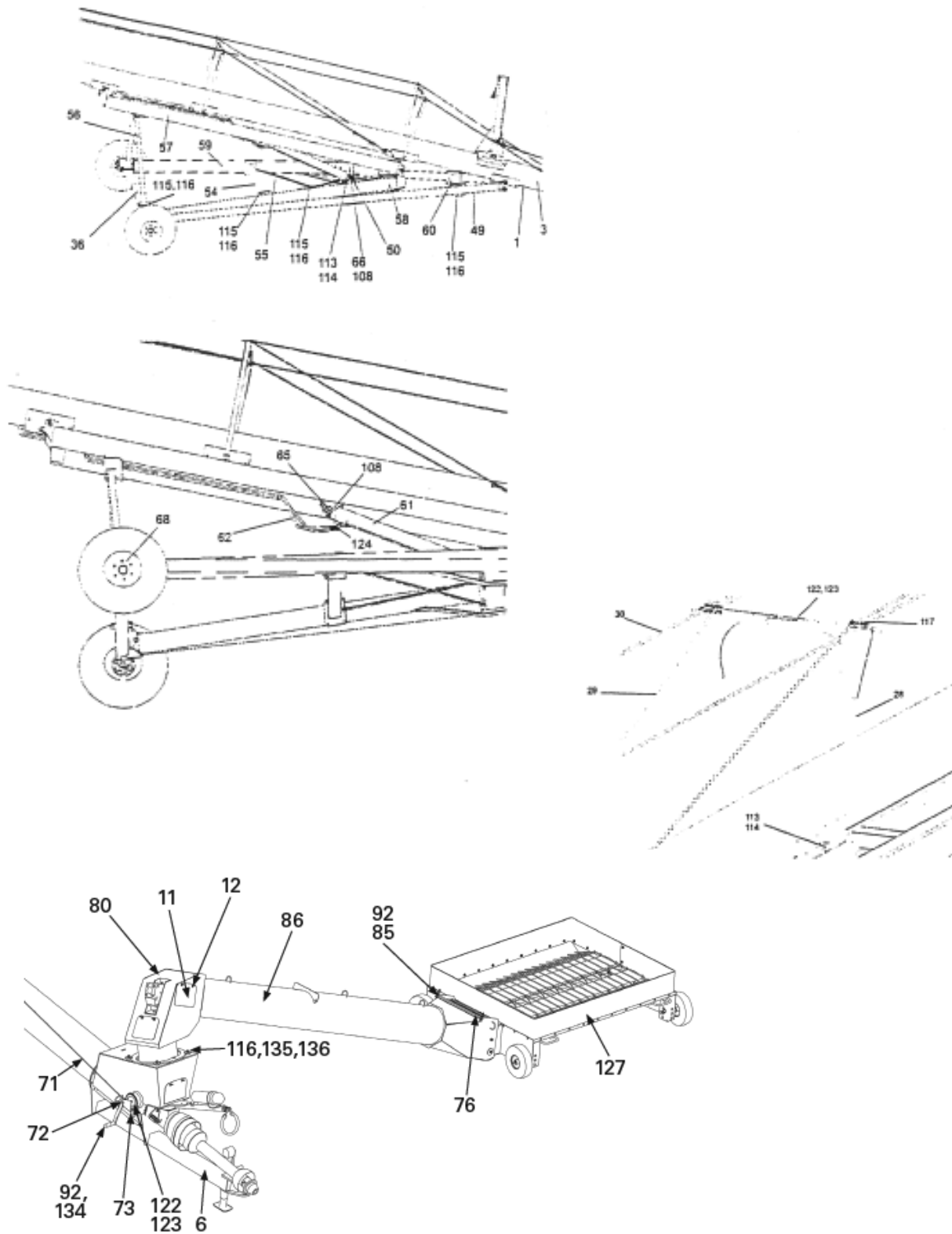
A partially plugged auger will require excessive amounts of horsepower.

3. A shear bolt is used to prevent damage to the auger. A shear bolt, like a slip clutch, works well when a shock load is transmitted. Many times when an auger plugs, the build-up is slow and smooth and sometimes damage can be done before the bolt shears.
4. If you hear any unusual noises after the initial break-in period, you should remove the flighting and inspect it.
5. Capacity problems. Extreme conditions will reduce capacity. The degree of angle, moisture content and speed of flighting are the main factors. Dirty grain or high moisture grain will not flow as well and is usually restricted some by the intake guard, thus reducing the capacity substantially.
6. Do not run the auger when empty, as unnecessary wear occurs.

6 Bolt Hub Assembly



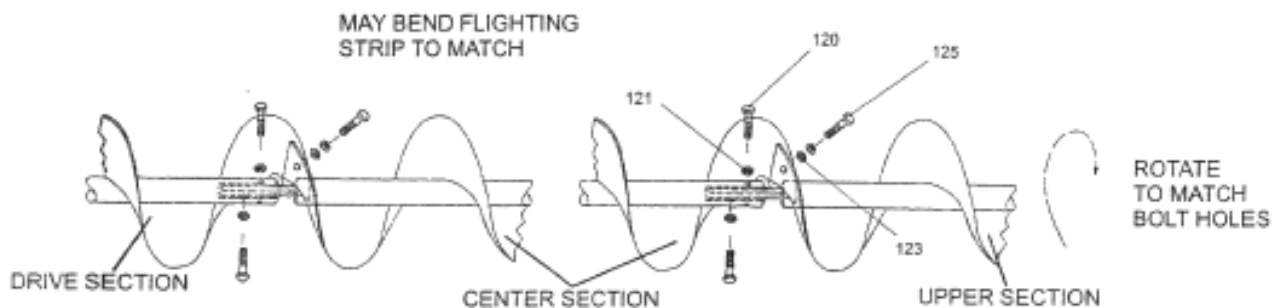




Assembly Instructions

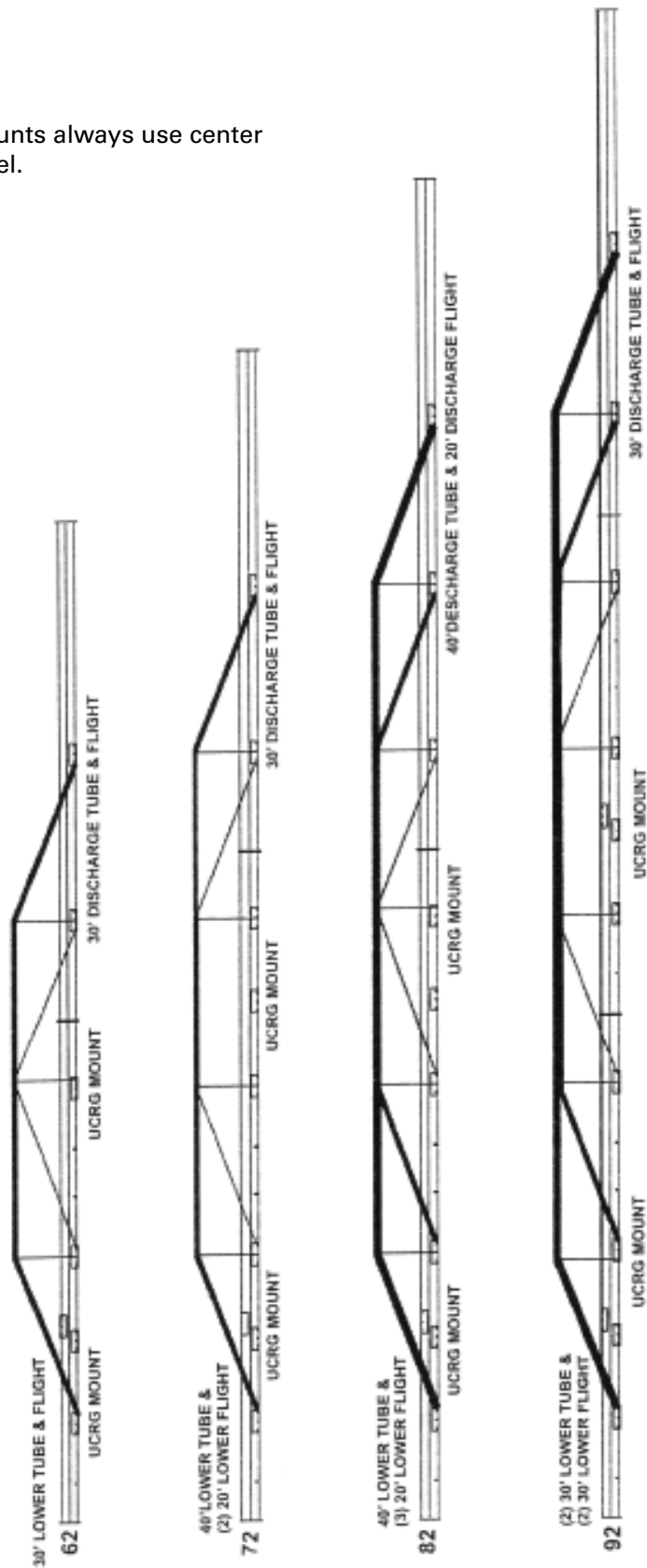
One must use extreme caution when assembling this auger. Two lifting devices (ie. loader tractor, forklift, etc.) are required as well as various wrenches and tools. Assemble the auger on a flat surface. Right, left, front and back refer to looking at the auger from the intake end.

1. Set tubes (Item #1 & 2) approximately two feet apart. Note the location and sequence of the tubes (i.e. 30' or 40'), and bolt the flighting (Item #3 & 4) together, as shown below, with 1/2" x 3-1/2" (13 x 89 mm) fine thread bolt and locknut (Item #120 & 121) and 3/8" x 7/8" (10 x 22 mm) button head screw and locknut (Item #125 & 123). Slide the tubes together and attach with 1/2" x 1-1/2" (13 x 38 mm) bolts and 1/2" (13 mm) locknuts (Item #115 & 116). **NOTE:** Do not fully tighten bolts in flange ring connection the first time. Work around the flange at least twice to gradually pull the connection together. Fully tightening the bolts on one side will pull the auger tubes out of alignment.



2. Lay drive section assembly (Item #5) flat with flange joint spaced two feet away from the center auger tube. Fasten the flighting assemblies together, as shown below, with 1/2" x 3-1/2" (13 x 89 mm) fine thread bolt and locknut (Item #120 & 121) and 3/8" x 7/8" (10 x 22 mm) button head screw and locknut (Item #125 & 123). Fasten flighting assemblies so that the drive section flight (Item #22) overlaps the lowest flight assembly (Item #3). Make sure tubes are straight. Slide drive section and tube together and connect at flange ring with 1/2" x 1-1/2" (13 x 38 mm) bolts and 1/2" (13 mm) locknuts (Item #115 & 116).
3. Attach drop spout (Item #25) by sliding the flight shaft through the 1-1/2" (38 mm) bearing (Item #26) on the head. Connect drop spout to tube with 1/2" x 1-1/2" (13 x 38 mm) bolts and 1/2" (13 mm) locknuts (Item #115 & 116). Align the female spline in the drive section flight with the male spline on the gearbox (Item #14). Push flight toward the drive section until the splines bottom out on each other. Thread the 1-1/2" (38 mm) nut (Item #119) onto the flighting until finger tight. Tighten the nut two full turns.
4. Assemble truss risers (Item #28) with 3/8" x 1" (10 x 25 mm) bolt and 3/8" (10 mm) locknut (Item #122 & 123). Ensure that the correct holes are being used for the correct tube size. Attach truss risers to the tubes with 5/8" x 1-1/2" (16 x 38 mm) bolts and 5/8" (16 mm) locknuts (Item #113 & 114). **NOTE:** proper truss mount location for each auger length on next page. String truss cables (Item #29, 30, 31 & 32) and attach to the tubes with 5/8" eyebolts (Item #33) and anchor bars (Item #34 & 35). Preload the tubes by raising the discharge end 4" (102 mm). Tighten the nuts (Item #114) on the eyebolts until the discharge end raises slightly.

**Undercarriage mounts always use center hole in mount channel.



5. Lay out axle (Item #36, also #37 & 38 on 82' and 92') and attach left and right lower arms (Item #58 & 59) to axle with 1/2" x 1-1/2" (13 x 38 mm) bolts and 1/2" (13 mm) locknuts (Item #115 & 116) (leave loose). **NOTE:** There are 6 holes in the mount brackets. The 62' and 82' augers use the inside 4 holes; the 72' and 92' augers use the outside 4 holes. Attach cross braces (Item #50) to front arms (loose) with 5/8" x 2-1/2" (16 x 64 mm) bolts and locknuts (Item #112 & 114). Attach cross braces (Item #55) to front arms with 1/2" x 1-1/2" (13 x 38 mm) bolts and 1/2" (13 mm) locknuts (Item #115 & 116). Working around the pattern at least twice, tighten the nuts on the bolts for front arms and cross braces in a cross pattern. Do not tighten the bolts fully the first time around.
6. Attach transport rest halves (Item #56) to the axle with 1/2" x 1-1/2" (13 x 38 mm) bolts and 1/2" (13 mm) locknuts (Item #115 & 116).
7. Attach top arm (Item #57) to lower arms with 1-1/4" x 3-3/4" (32 x 95 mm) pin, bushings and 1/4" x 2" (6 x 51 mm) cotter pins (Item #51, 110 & 108).
8. Location of undercarriage to tube connections is on the previous page. Attach top arm to tube support bracket with 5/8" x 2-1/2" (16 x 64 mm) bolts, 5/8" (16 mm) bushings and 5/8" (16 mm) locknuts (Item #112, 110 & 114). Attach front arms (Item #49) to axle and to tube with 5/8" x 2-1/2" (16 x 64 mm) bolts, 5/8" (16 mm) bushings, washers and 5/8" (16 mm) locknuts (Item #111, 112, 110 & 114). Discharge end of auger may need to be raised or lowered to align holes for assembly. Attach cross brace (Item #60) to front arms with 1/2" x 1-1/2" (13 x 38 mm) bolts and 1/2" (13 mm) locknuts (Item #115 & 116). Attach swing over arm (Item #69) to tube with 1/8" (3 mm) hairpin (Item #92).



CAUTION

After the top tube is fastened to the center tube, the auger may overbalance with discharge end falling to the ground unless restrained by a lifting device. Before removing lifting devices, anchor the intake end.

9. Mount the wheels (Item #68) on the hubs using the wheel bolts (Item #48) in the hubs. Valve stems should point away from the axle. There are 12 holes on each rim. Be sure to use the set of holes with the proper taper (taper pointing in).
10. Attach base end of lift cylinder (Item #61) to top arm with 1-1/4" x 6-1/2" (32 x 165 mm) pin (Item #65) and 1/4" x 2" (6 x 51 mm) cotter pin (Item #108). Attach hitch on drive section to tractor. Check tractor hydraulic reservoir to ensure proper oil level. Run hoses (Item #62, 63 and 64) to tractor. Cycle cylinder full stroke at least 4 times to ensure that the cylinder is full of oil and that air is purged from the system. Recheck tractor hydraulic reservoir for proper oil level. Attach rod end of cylinder to front arm with 1-1/4" x 4-7/8" (32 x 124 mm) pin (Item #66) and 1/4" x 2" (6 x 51 mm) cotter pin (Item #108). Ensure that no one is near the auger, raise the auger all the way up, and then lower to transport position. Check for hose binding or stretching. Repeat the lift and lower operation.
11. Recheck the flighting thrust load. The thrust load must be carried at the discharge end of the auger. If the flight spline is bottomed out on the gearbox turn the 1-1/2" (38 mm) nut (Item #119) until they are separated by approximately 1/8" (3 mm). Tighten the set screw in the keyway to lock the nut. Tighten the bearing lock collar. Attach the shield (Item #27) with 3/8" (10 mm) locknut (Item #123).
12. Remove the 4 bolts from the front of the gearbox (Item #14) **NOTE:** Be careful not to break the seal on the front of the gearbox. Install the poly implement end PTO shield (#152) and re-install the gearbox bolts. Mount the IID shaft (Item #67) to the lower gearbox (Item #14) with 1/4" x 2-1/4" (6 x 57 mm) spiral pin (Item #129). Tighten setscrew on IID. Mount the IID hanger (Item 23) with 3/8" x 1" bolts and locknuts (Item #122 & 123). Hang IID from hanger with rubber strap (Item #130).



CAUTION

Before moving lifting devices, anchor the intake end. At this stage of assembly, the auger may overbalance and the discharge end will fall to the ground.

13. Line up the hopper CV joint (Item #77) with the hopper discharge flighting (Item #87) and attach with 3/8" x 3" (10 x 76 mm) bolt and locknut (Item #137 & 123). Connect the hopper tube (Item #86) to the hopper body (Item #89) with 1/2" x 1-1/2" (13 x 38 mm) bolts, 1/2" (13 mm) locknuts and 1/2" (13 mm) flat washers (Item #146, 116 & 135). Attach the hopper access door (Item #76). Install belting (Item #127) with 1/4" x 3/4" (6 x 19 mm) bolts, flat washers and locknuts (Item #148, 149 & 150). Mount the hopper wheels (Item #126) with 3/4" x 8-3/4" (19 x 222 mm) pins and bushings (Item #75 & 143).
14. Attach the hopper head assembly (Item #79) to tube with 1/2" x 1-1/2" (13 x 38 mm) bolts and 1/2" (13 mm) locknuts (Item #115 & 116).
15. Install bushings (Item #136) on the inlet pivot ring. Set hopper on drive section by putting discharge head into pivot ring and attaching with 1/2" (13 mm) locknuts (Item #116). Install the hopper power shaft (Item #74) between the gearboxes (Item #14 & 81) using a 3/8" x 3" bolt and nut on top (Item #137 & #123) and 5/16" x 3" (8 x 76 mm) bolt and nut on the bottom (Item #140 & 142). **NOTE:** Be sure to mount the hopper power shaft with the outer half to the upper gearbox. The hopper can be mounted on either side of the auger. Close access door (Item #11) and keep in place during operation. Hopper height may be adjusted by removing hair pin (under hopper) from hopper wheel axle (Item #75). Then remove hopper wheel axle from socket and reinstall in alternate socket.
16. Mount the winch (Item #72) to quick switch hopper winch mount (Item #73) with 3/8" x 1" (10 x 51 mm) bolts and 3/8" (10 mm) locknuts (Item #115 & 116). This winch can be mounted on either side of the auger. Thread the hopper lift cable (Item #71) through the swing over arm and attach to winch. The cable hook is attached to the hook located on the outside of the hopper for transporting. Raise and lower hopper to ensure proper operation. Attach the transport safety cable (Item #131) with 1/8" (3 mm) hairpin (Item #92).
17. Adjust hitch on tractor.

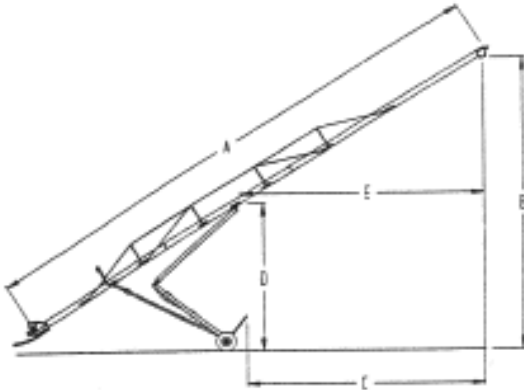
Auger Height and Reach

Up to 9,000 bushels per hour in dry corn

Tube made from 12 ga

Flighting rolled from 1/4" (6 mm) strip

Hopper: 10-1/2" (267 mm) clearance, 60" x 48" (1524 x 1219 mm) opening



- A - Length of auger
- B - Total height to spout
- C - Length of reach
- D - Ground to eave
- E - Length of reach from undercarriage

Angle	1262 Auger			
	B	C	D	E
8 (min)	11' (3.4 m)	33' 6" (10.2 m)	6' (1.8 m)	33' 6" (10.2 m)
15	15' 6" (4.7 m)	33' (10.1 m)	8' 6" (2.6 m)	33' (10.1 m)
20	21' 6" (6.6 m)	32' (9.8 m)	11' 6" (3.5 m)	32' (9.8 m)
25	27' (8.2 m)	30' 6" (9.3 m)	14' (4.3 m)	30' 6" (9.3 m)
30	32' (9.8 m)	29' (8.8 m)	16' 6" (5 m)	29' 6" (9 m)
35	37' (11.3 m)	25' 6" (7.8 m)	19' (5.8 m)	27' (8.2 m)
40	42' (12.8 m)	23' 6" (7.2 m)	21' (6.4 m)	26' (8 m)
42 (max)	45' (13.7 m)	21' (6.4 m)	23' (7 m)	24' (7.3 m)

Angle	1272 Auger			
	B	C	D	E
8 (min)	11' 6" (3.5 m)	39' (11.9 m)	6' (1.8 m)	39' (11.9 m)
15	19' 6" (5.9 m)	37' 6" (11.4 m)	10' (3.1 m)	37' 6" (11.4 m)
20	26' 6" (8.1 m)	37' (11.7 m)	13' 6" (4.1 m)	37' (11.3 m)
25	30' (9.1 m)	36' (11 m)	15' 6" (4.7 m)	36' (11 m)
30	37' 6" (11.4 m)	33' (10.1 m)	19' (5.8 m)	33' (10.1 m)
35	43' 6" (13.3 m)	31' 6" (9.6 m)	22' (6.7 m)	32' (9.8 m)
40	49' (15 m)	28' 6" (8.7 m)	24' 6" (7.5 m)	29' 6" (9 m)
42 (max)	52' (15.9 m)	26' 6" (8.1 m)	26' (8 m)	28' (8.5 m)

Angle	1282 Auger			
	B	C	D	E
8 (min)	12' (3.7 m)	43' (13.1 m)	6' (1.8 m)	43' (13.1 m)
15	22' 6" (6.9 m)	42' 6" (13 m)	12' (3.7 m)	42' 6" (13 m)
20	30' (9.1 m)	41' (12.5 m)	15' 6" (4.7 m)	41' (12.5 m)
25	37' (11.3 m)	40' (12.2 m)	19' (5.8 m)	40' (12.2 m)
30	44' 6" (13.6 m)	38' (11.6 m)	22' 6" (6.9 m)	39' (11.9 m)
35	50' 6" (15.4 m)	35' 6" (10.8 m)	25' 6" (7.8 m)	38' (11.6 m)
40	55' (16.8 m)	33' (10.1 m)	27' 6" (8.4 m)	36' (11 m)
42 (max)	56' 6" (17.2 m)	32' (9.8 m)	28' 6" (8.7 m)	35' 6" (10.8 m)

Angle	1292 Auger			
	B	C	D	E
8 (min)	13' 5" (4.1 m)	48' (14.6 m)	6' (1.8 m)	48' (14.6 m)
15	23' 6" (7.2 m)	47' 6" (14.5 m)	12' 6" (3.8 m)	47' 6" (14.5 m)
20	31' 6" (9.6 m)	46' 6" (14.2 m)	16' 6" (5.03 m)	46' 6" (14.2 m)
25	40' (12.2 m)	43' (13.1 m)	20' 6" (6.3 m)	43' (13.1 m)
30	46' 6" (14.2 m)	41' (12.5 m)	24" (7.3 m)	42' (12.8 m)
35	54' (16.5 m)	39' (11.9 m)	27' 6" (8.4 m)	40' 6" (12.3 m)
40	61' (18.6 m)	35' (10.7 m)	31' (9.5 m)	37' 6" (11.4 m)
42 (max)	62' (19 m)	34' 6" (10.5 m)	31' 6" (9.6 m)	37' (11.3 m)

Parts List - 1262, 1272, 1282 and 1292 Backsaver Auger

Ref No.	Part No.	Description	Qty 62	Qty 72	Qty 82	Qty 92
1	SZ9902346	WLDTTBG 12 360 LWR	1			2
	SZ9902347	WLDTTBG 12 480 LWR		1	1	
	SZ103510	WLDTTBG 12 360 LWR*	1			2
	SZ103511	WLDTTBG 12 480 LWR*		1	1	
2	SZ9902348	WLDTTBG 12 360 DSCHG	1	1		1
	SZ9902371	WLDTTBG 12 480 DSCHG			1	
	SZ103512	WLDTTBG 12 360 DSCHG*	1	1		1
	SZ103513	WLDTTBG 12 480 DSCHG*			1	
3	SZ9902382	Flight 12" Dia - 30' Lower	1			2
	SZ9902381	Flight 12" Dia - 20' Lower		2	3	
4	SZ9902383	Flight 12" Dia - 30' Discharge	1	1		1
	SZ9902370	Flight 12" Dia - 20' Discharge			1	
5	SZ9902336	12" Drive Section Assembly	1	1	1	1
6	SZ9902302	WLDT 12" Drive Section	1	1	1	1
7	SZ9901481	WSHR FLT 1.28 3.25 NYL	1	1	1	1
8	SZ9902601	Shield, Drive Section Grain	1	1	1	1
9	SZ126063	BLT HHCS 3/8-16 UNC 3/4 G5	7	7	7	7
11	SZ9902289	Drive Section Access Door	4	4	4	4
12	SZ125040	Nut Wing 5/16-18 UNC	8	8	8	8
13	SZ100381	Cover Drive Section Lower	2	2	2	2
14	SZ0160112	Gear Box Drive Section - 2001	1	1	1	1
15	SZ9902333	Gear Box Mount Bracket	2	2	2	2
16	SZ4910190	1" x 3-1/2" Spring (Plated)	2	2	2	2
17	SZ125023	Nut Jam 5/8-11 UNC	4	4	4	4
18	SZ126118	BLT HHCS 5/8-11 UNC 4-1/2 G5	2	2	2	2
19	SZ9902600	Shield, Drive Section Grain 12GA	1	1	1	1
20	SZ9902334	Gearbox Lower Seal Plate	1	1	1	1
21	SZ128041	SSCR 3/8-16 UNC 3/8 CP KNRL	3	3	3	3
22	SZ9902384	Flight 12" Dia - Drive Section	1	1	1	1
23	SZ103260	CHNL FRMD HNDR PTO CSW	1	1	1	1
24	SZ103298	Assembly Jack DL 6620 2000LB 10"	1	1	1	1
25	SZ101696	Assembly Drop Spout 12" w/ Relief	1	1	1	1
26	SZ2011053	Bearing, 1-1/2" 4-Bolt Cast FL	1	1	1	1
27	SZ2127212	Assembly Shield Cap Head	1	1	1	1
28	SZ9901873	WLDT Truss CBL Riser Half	6	8	10	12
29	SZ9901950	CBL 3/8 7 x 19 264	2		2	
	SZ9901951	CBL 3/8 7 x 19 384		2		2

* Galvanized

Ref No.	Part No.	Description	Qty 62	Qty 72	Qty 82	Qty 92
30	SZ9901952	CBL 3/8 7 x 19 504	2		2	
	SZ9901953	CBL 3/8 7 x 19 624		2		2
31	SZ9901954	CBL 3/8 7 x 19 744			2	
32	SZ9901955	CBL 3/8 7 x 19 864				2
33	SZ126017	Bolt Eye 5/8-11 UNC 6-1/2	4	4	6	6
34	SZ9901897	Truss CBL Eyebolt Anchor Bar	4	4	6	6
35	SZ9901944	Truss CBL Anchor Bar	4	4	6	6
36	SZ102851	WLDT Axle 62' & 72'	1	1		
	SZ102829	WLDT Axle 82' & 92'			1	1
37	SZ9901949	82' & 92' Extendable Axle			2	2
38	SZ128011	Pin CLVS 1/2 5			2	2
40	SZ0203549	Grease Seal 6 Bolt Hub	2	2	2	2
41	SZ6002X15016WA	2" x 15/16" SPNDL WSHR	2	2	2	2
42	SZ100125	Bearing Cone (LM67048)	2	2	2	2
43	SZ100151	Bearing Cone (LM48548)	2	2	2	2
44	SZ600NUT0SLOT0	Spindle Nut 6 Bolt Hub	2	2	2	2
45	SZ0116021	6 Bolt Hub w/ Cups	2	2	2	2
46	SZ128042	Pin Cotter 5/32 2	2	2	2	2
47	SZDC13	Dust Cap 6 Bolt Hub	2	2	2	2
48	SZWB10000	Lug Bolt, 1/2" x 1"	12	12	12	12
49	SZ102886	WLDT 62' & 72' Lower FRT Arm	2	2		
	SZ102871	WLDT 82' & 92' Lower FRT Arm			2	2
50	SZ102850	WLDT 62' & 72' Cross Member	1	1		
	SZ9901959	WLDT 82' & 92' Cross Member			1	1
51	SZ9901881	HYD Hoist Pivot Pin - 3-3/4"	2	2	2	2
52	SZ105420	Serial Number Decal	1	1	1	1
54	SZ9902563	WLDT 62' & 72' Hoist Cross Bar	1	1		
	SZ9902552	WLDT 82' & 92' Hoist Cross Bar			1	1
55	SZ9902564	62' & 72' X-Brace Bar	2	2		
	SZ9902557	82' & 92' X-Brace Bar			2	2
56	SZ102846	WLDT Hoist Half Rest	2	2	2	2
57	SZ102873	WLDT 62' Top Arm	1			
	SZ102874	WLDT 72' Top Arm		1		
	SZ102875	WLDT 82' Top Arm			1	
	SZ102872	WLDT 92' Top Arm				1
58	SZ102860	WLDT 62' LH Lower Arm	1			
	SZ102856	WLDT 72' LH Lower Arm		1		
	SZ102837	WLDT 82' LH Lower Arm			1	
	SZ102831	WLDT 92' LH Lower Arm				1
59	SZ102859	WLDT 62' RH Lower Arm	1			

Ref No.	Part No.	Description	Qty 62	Qty 72	Qty 82	Qty 92
	SZ102855	WLDT 72' RH Lower Arm		1		
	SZ102836	WLDT 82' RH Lower Arm			1	
	SZ102830	WLDT 92' RH Lower Arm				1
60	SZ9902562	WLDT 62' & 72' Undercarriage X-Brace	1	1		
	SZ102880	WLDT 82' & 92' Undercarriage X-Brace			1	1
61	SZ2122148	CYL, 4 x 48, w/ CB Valve	1	1		
	SZ102398	CYL, 5.00 2.50 58.25 46.75 3000			1	1
62	SZ106492	ASSY HOSE HYD 3/8 x 546	2			
	SZ106491	ASSY HOSE HYD 3/8 x 606		2		
	SZ000473	ASSY HOSE HYD 3/8 x 726			2	
	SZ105179	ASSY HOSE HYD 3/8 x 786				2
65	SZ9901882	Pin, Cylinder Base	1	1		
	SZ100002	Pin, Cylinder Base			1	1
66	SZ9901883	Pin, Cylinder, Rod, End	1	1		
	SZ100003	Pin, Cylinder, Rod, End			1	1
67	SZ0163541	35E 50 DEG CV Power Shaft x 40	1	1		
	SZ0165541	55E 50 DEG CV Power Shaft x 40			1	1
68	SZ0117115	15 x 8 x 6 Bolt Rim	2	2	2	2
69	SZ9901880	WLDT Arm Swing Over	1	1	1	1
70	SZ02165035	WLDT Sheave - Painted	2	2	2	2
71	SZ0213235	Assembly CBL 3/16 7 x 19 420 Grabhook	1	1	1	1
72	SZ2038221A	12" Quick Move HPR Winch	1	1	1	1
73	SZ9901480	HPR Winch Plate	1	1	1	1
74	SZ0166020	12N Internal Power Shaft	1	1	1	1
75	SZ9901748	HPR Wheel Axle	4	4	4	4
76	SZ9902449	12" HPR Access Door Weld	1	1	1	1
77	SZ0165547	6E 50 DEG CV w/ 15/16 Square	1	1	1	1
78	SZ9901981	12" HPR Head Swivel Plate	2	2	2	2
80	SZ9901979	HPR Head	1	1	1	1
81	SZ0160100	Gear Box HPR Drive - 2001	1	1	1	1
82	SZ1001604	12N U-Joint 1-1/4" x 1-1/4"	1	1	1	1
83	SZ9902534	HPR Gear Box Seal	1	1	1	1
84	SZ127001	WSHR FLT 5/16	2	2	2	2
85	SZ9902475	12" HPR Access Door Pin	1	1	1	1
86	SZ101824	WLDT TBG HPPR Discharge 12"	1	1	1	1
87	SZ9902393	WLDT Flight 12" Discharge	1	1	1	1
89	SZ101817	WLDT HPPR Body 12" Ground Hugger	1	1	1	1
90	SZ9860013	Flight 12" Ground Hugger 60"	2	2	2	2
91	SZ127009	WSHR LCK 3/8	11	11	11	11
92	SZ128018	Pin Hair 1/8	12	12	14	14

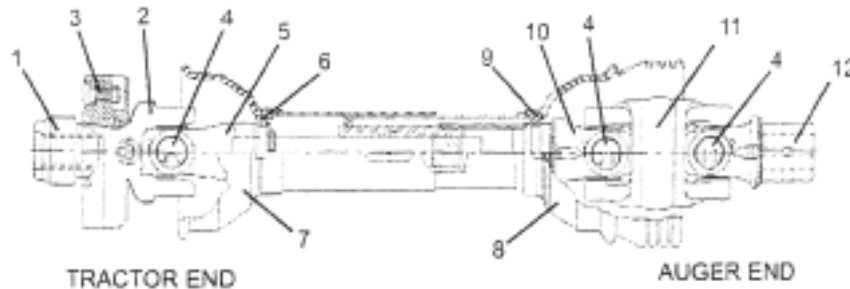
Ref No.	Part No.	Description	Qty 62	Qty 72	Qty 82	Qty 92
93	SZ9902434	SFT RND 1 64.5	1	1	1	1
94	SZ102638	PLT FRMD MNT BRG HPPR 12" Top	1	1	1	1
95	SZ101820	WLDT HPPR HNDR BRG	2	2	2	2
96	SZ2017043	Bearing, 1" w/ Loose Lock Collar	4	4	4	4
97	SZ65052MSCI000	FLG BRG 52 MM 3 BLT	8	8	8	8
98	SZ00425151	12" Internal DR HPR Center Sprocket	1	1	1	1
99	SZ00405153	12" Internal DR HPR Side Sprocket	2	2	2	2
101	SZ0231110	BSHG MACH 1 10GA	3	3	3	3
103	SZ6001602	Pin SPL 5/16 2	3	3	3	3
104	SZ0043534	Assembly Chain RLR #50 34P	2	2	2	2
105	SZ9902466	WLDT Shield, 12" HPR Chain	1	1	1	1
106	SZ126044	BLT HHCS 1/4-20UNC 4-1/2 G5	2	2	2	2
107	SZ68RUB0CHL0SL	Rubber Seal E-3559 Channel	58"	58"	58"	58"
108	SZ6001420	Pin Cotter 1/4 2	8	8	10	10
109	SZ0231250	BSHG MACH 1-1/4 10GA	6	6	6	6
110	SZ9902558	Pivot Bushing	6	6	6	6
111	SZ9902505	WSHR FLT .66 2.25 .25 PLTD	6	6	6	6
112	SZ126115	BLT HHCS 5/8-11 UNC 2-1/2 G5	6	6	6	6
113	SZ126113	BLT HHCS 5/8-11 UNC 1-1/2 G5	26	30	36	38
114	SZ125036	NUT LCK 5/8-11 UNC	38	42	48	50
115	SZ126092	BLT HHCS 1/2-13 UNC 1-1/2 G5	89	89	89	89
116	SZ125032	NUT LCK 1/2-13 UNC Nylock	95	95	95	107
117	SZ6003375	CLMP CBL 3/8	28	28	44	44
118	SZ6009375	TMB CBL 3/8	8	8	12	12
119	SZ6001050	1-1/2" NC Hex Nut w/ 3/8 Set	1	1	1	1
120	SZ126106	BLT HHCS 1/2-20 UNF 3-1/2 G5	4	6	6	6
121	SZ125033	NUT LCK 1/2-20 UNF	4	6	6	6
122	SZ126065	BLT HHCS 3/8-16 UNC 1 G5	32	32	32	32
123	SZ125030	NUT LCK 3/8-16 UNC Nylock	35	35	35	35
124	SZ384132	FTG 90 08MJ 08MB	2	2	2	2
125	SZ126000	BLT BHCS 3/8-16 UNC 7/8	2	3	3	3
126	SZ3981273	Easi-Roll HPR Wheel	4	4	4	4
127	SZ102637	EXT Flex 12" HPPR 8.00 214.01	1	1	1	1
128	SZ0113122	Key Sq 5/16 1.75	1	1	1	1
129	SZ60025111	Pin SPL 1/4 2-1/4	1	1	1	1
130	SZ91230	Strap, Rubber #509-S w/s Hook	1	1	1	1
131	SZ9902509	Assembly CBL 3/16 7 x 19 14TMB Grab	1	1	1	1
132	SZ127003	WSHR FLT 1/2	4	4	4	4
134	SZ128012	Pin CLVS 1/2 6	1	1	1	1
135	SZ9941718	WSHR FLT .53 2.25 10GA GALV	6	6	6	6

Ref No.	Part No.	Description	Qty 62	Qty 72	Qty 82	Qty 92
136	SZ9902517	TBG RND 1-3/16 11/32.50 PLTD	4	4	4	4
137	SZ126076	BLT HHCS 3/8-16 UNC 3 G5	4	4	4	4
139	SZ01125118	Key Sq 1/4 1.19	2	2	2	2
140	SZ126059	BLT HHCS 5/16-18 UNC 3 G5	1	1	1	1
141	SZ126047	BLT HHCS 5/16-18 UNC 1 G5	4	4	4	4
142	SZ125035	NUT LCK 5/16-18 UNC Nylock G5	26	26	26	26
143	SZ9901747	TBG RND 1-3/16 3/16 1.5	8	8	8	8
144	SZ0237510	BSHG MACH 3/4 1-1/4 10GA	12	12	12	12
145	SZ6003531	Pin Cotter 5/32 1-1/4	12	12	12	12
146	SZ126012	BLT CRG 1/2-13 UNC 1-1/4 SHRT N	6	6	6	6
147	SZ126089	BLT HHCS 1/2-13 UNC 1 G5	6	6	6	6
148	SZ126029	BLT HHCS 1/4-20 UNC 3/4 G5	38	38	38	38
149	SZ125028	NUT LCK 1/4-20 UNC Nylock	40	40	40	40
150	SZ127000	WSHR FLT 1/4	40	40	40	40
151	SZ103259	Clamp Hose Tie-Down	2	2	2	2
152	SZ103268	Shield Poly Implement	1	1	1	1
153	SZ103292	PLT FRMD MNT BRG HPPR 12 BOT	1	1	1	1
154	SZ103296	Owners Manual Container Assembly	1	1	1	1
155	SZ103418	Owners Manual 12-62, 72, 82, 92	1	1	1	1
157	SZ125041	Nut Wing 3/8-16 UNC	4	4	4	4
158	SZ126007	BLT CRG 5/16-18 UNC 1	3	3	3	3

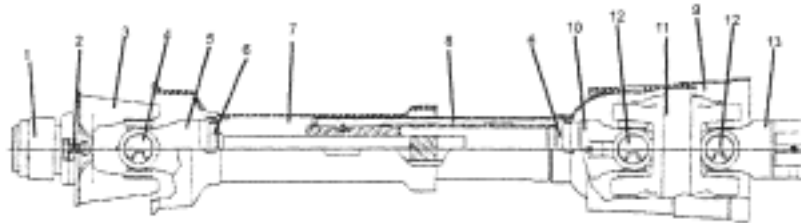
Parts List - Decals

Part No.	Description	Qty
SZ06001	Made in USA	1
SZ06010	"Warning" Do not operate the unit before reading the operator's manual	1
SZ06011	"Warning" Contact w/ rotating flighting & moving parts	1
SZ06017	"Notice" Raising or lowering the auger with blocked or trapped wheels	2
SZ06018	"Notice" Do not operate when empty during break-in period	1
SZ06021	"Warning" This auger transports over height	1
SZ06023	"Warning" Contact with moving parts	2
SZ06026	"Warning" Use a 3/8" grade 5 shear bolt	1
SZ06049	"Warning" Hydraulic operation	1
SZ06051	"Danger" Rotating flighting	3
SZ06055	"Notice" The IID should be disconnected	1
SZ06057	Grease gun silhouette	1
SZ06058	"Warning" Do not raise the feed hopper	1
SZ06059	"Warning" Contact with moving parts - 540 RPM	1
SZ06067	"Notice" Patent No. 5,184,715	1
SZ06077	"Notice" Drain hole cover must be opened	1
SZ06078	"Notice" Avoid over feeding	1
SZ06080	"Important" The flighting thrust load must be carried	1
SZ06112	"Notice" Gearbox must be checked for proper oil level	1
SZ06527	"Danger" Electrocution hazard	1
SZ06528	"Notice" Do not tow over 20 MPH	1
SZ000113	FARM KING logo for red augers	2
901581	FARM KING logo for galvanized augers	2
SZ000339	1262 for red augers	2
SZ000342	1262 for galvanized augers	2
SZ000340	1272 for red augers	2
SZ000343	1272 for galvanized augers	2
SZ000203	1282 for red augers	2
SZ000214	1282 for galvanized augers	2
SZ000341	1292 for red augers	2
SZ000344	1292 for galvanized augers	2
SZ000116	Feterl Original	2

Parts List - Weasler 35R 50° CV x 40" Separable IID - SZ0163541 - 1262 & 1272

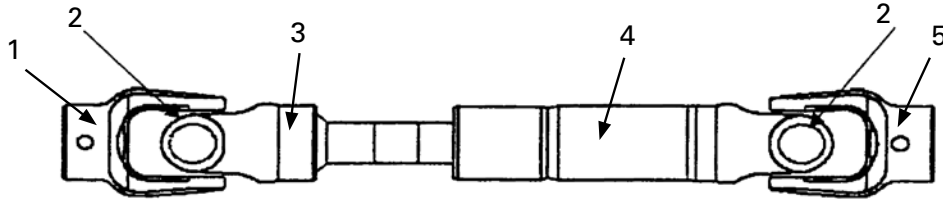


Ref No.	Part No.	Description	Qty
	SZ0163541	Complete IID w/ 1/3" Round End Yoke - Auger	1
	SZ01635411	Tractor Half w/ Shield & Shear Clutch	1
	SZ016354115	Auger Half w/ Shield & CV Joint w/ 1-3/8" Round	1
1	SZ26-10015	Spring Lock Repair Kit	1
2	SZ40-30011	35R 1-3/8" 6-Spline Snap Hitch Shear Yoke	1
3	SZ126065	3/8" x 1" Grade 5 Shear Bolt	1
	SZ125029	Oval Locknut	1
4	SZ101812	35R Cross & Bearing Kit	3
5	SZ99-17028	1-3/16" Square Shaft w/ 35R Yoke	1
6	SZ19-11104	Outer Shield Bearing Kit	1
7	SZ97-17028	Outer Shield	1
8	SZ96-17028	Inner Shield	1
9	SZ19-11105	Inner Shield Bearing Kit	1
10	SZ98-17028	Torque Tube w/ Slip Sleeve & 35R CV Yoke	1
11	SZ35271-1880	35R CV Center Body	1
12	SZ35261-1953	1-3/8" Round 35R CV End Yoke	1

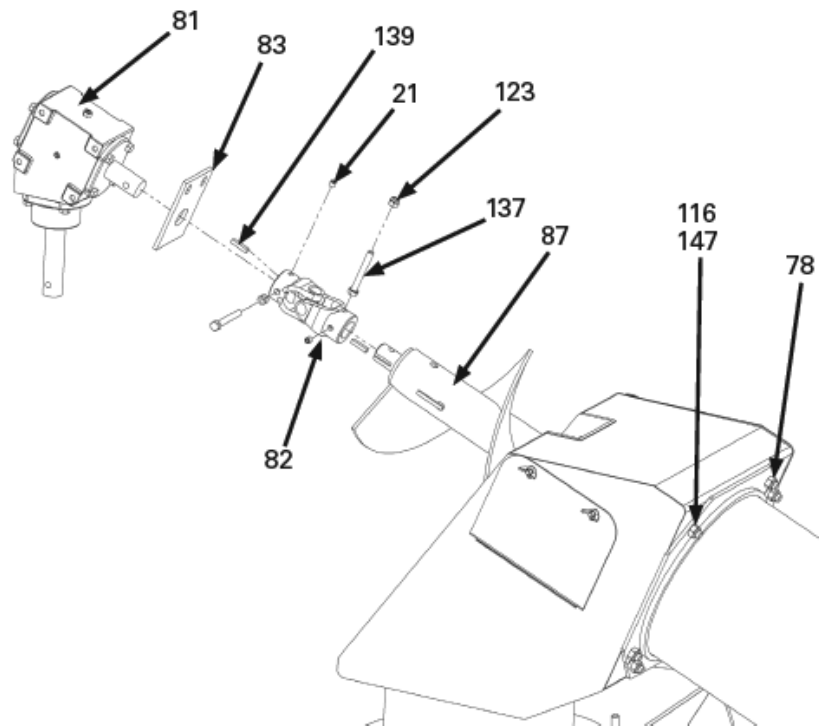
Parts List - Weasler 55R 50° CV x 40" Separable IID - SZ0165541 - 1282 & 1292


Ref No.	Part No.	Description	Qty
	SZ0165541	Complete IID w/ 1-3/8" Round End Yoke (see whole goods)	1
	SZ01655411	Tractor Half w/ Shield & Shear Clutch	1
	SZ016554115	Auger Half w/ Shield & CV Joint w/ 1-1/4" Round	1
1	SZ26-15120	Spring Lock Repair Kit	1
2	SZ126065	3/8" x 1" Grade 5 Shear Bolt	1
	SZ125029	Oval Locknut	1
3	SZ40-10030	55R 1-3/8" 6-Spline Snap Hitch Shear Yoke	1
4	SZ03-10050	55R Cross & Bearing Kit	1
5	SZ99-20427	1-3/16" Square Shaft w/ 55R Yoke	1
6	SZ19-11106	Shield Bearing Kit	1
7-9	SZ90-22085	Complete Shield Set	1
10	SZ98-19537	Torque Tube w/ Slip Sleeve & 55R CV Yoke	1
11	SZ55251-1599	55R CV Center Body	1
12	SZ03-14298	55R Cross & Bearing Kit w/ Grease Zerk in Cap	2
13	SZ55261-1826	1-3/8" Round 55R CV End Yoke	1

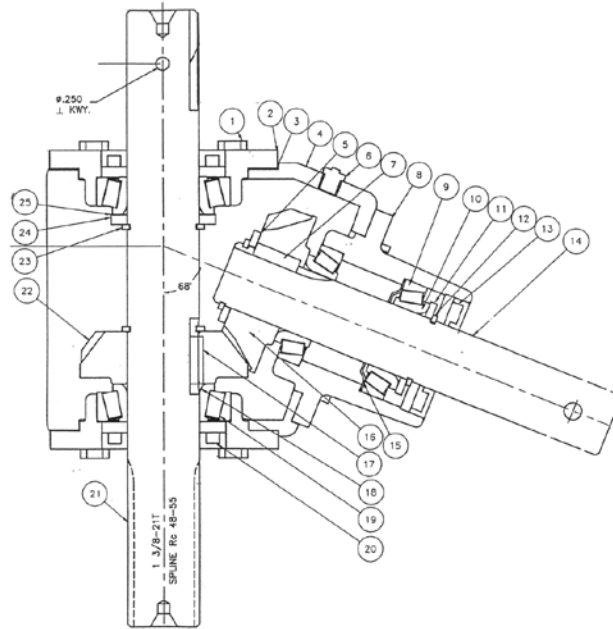
Parts List - Weasler 12N Internal IID - SZ0166020



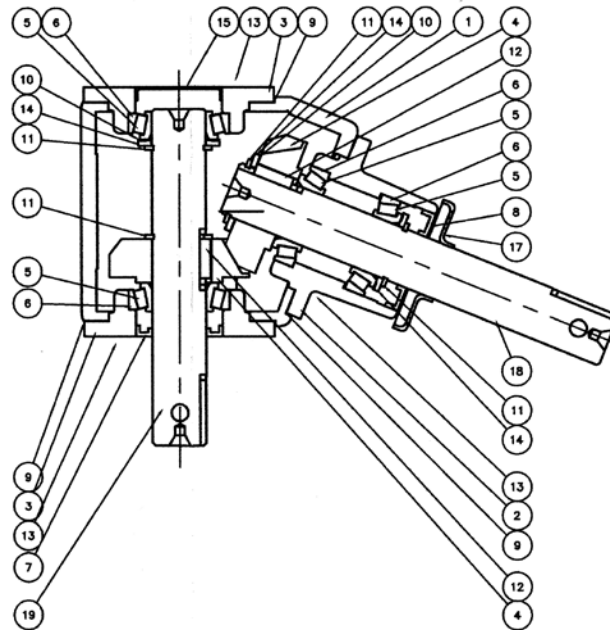
Ref No.	Part No.	Description	Qty
	SZ0166020	Complete IID	1
	SZ102126	Joint & Shaft Half Assembly	1
	SZ102127	Joint & Tube Half Assembly	1
1	SZ102128	Yoke	1
2	SZ302-1200	12RBL Cross & Bearing Kit	2
3	SZ102129	Yoke & Shaft (1.00 x 1.12 Shaft)	1
4	SZ102130	Yoke, Tube & Slip Sleeve	1
5	SZ102131	Yoke	1



Parts List - Drive Section Gear Box (Lower) - SZ0160112



Ref No.	Part No.	Description	Qty
	SZ0160112	Complete Gear Box	1
1	SZ126046	Bolt: 5/16-18NC x 3/4 - Gr 5	12
2	SZPG-4110	Cover	2
3	SZPG1503	Shim: .010	2
	SZPG-1502	Shim: .0075	2
	SZPG-1501	Shim: .005	2
4	SZPG-1063-1	Case - 68 Degree	1
5	SZPG-1537	Shim: .007 x 1.25 I.D.	1
6	SZPG-1853	Vent - 1/8 NPT - 5 PSI	1
7	SZPG-1650	Key - 1/4 Sq x 7/8"	1
8	SZPG-1192	Quill	1
9	SZ100126	Bearing Cup - 1-1/4"	2
10	SZ100125	Bearing Cone - 1-1/4"	2
11	SZPG-1805	Washer - 1-1/4"	2
12	SZPG-1600	Snap Ring - 1-1/4"	2
13	SZ874212890H	Seal	1
14	SZPG-5258	Quill Shaft	1
15	SZPG-2816	Washer Grease	1
16	SZPG-1246	Gear - 68 Degree - 1-1/4"	1
17	SZPG-1665	Key - 5/16 Sq x 7/8	1
18	SZ100151	Bearing Cone - 1-3/8"	2
19	SZ100152	Bearing Cup - 1-3/8"	2
20	SZPG-1480	Seal	2
21	SZPG-5263	Thru Shaft	1
22	SZPG-1296	Gear - 68 Degree - 1-3/8"	1
23	SZPG-1614	Snap Ring - 1-3/8"	2
24	SZPG-1824	Washer - 1-3/8"	1
25	SZPG-1534	Shim: .007 x 1.375 I.D.	1
26	SZPG-1850	Plug: 1/4 NPT (not shown)	2

Parts List - Hopper Gear Box (Upper) - SZ0160100


Ref No.	Part No.	Description	Qty
	SZ0160100	Complete Gear Box	1
1	SZPG-1063	Case 68 degrees	1
2	SZPG-1192	Quill	1
3	SZPG-1193	Cover - Open	2
4	SZPG-1246	Gear - 19T	2
5	SZ100125	Bearing Cone (LM67048)	4
6	SZ100126	Bearing Cup (LM67010)	4
7	SZPG-1471	Seal: 1.25 - 2.00	1
8	SZ874212890H	Seal: 1.25 - 2.375	1
9	SZPG-1502	Shim - Cover	3
10	SZPG-1537	Shim: 1.25 - .007	2
11	SZPG-1600	Snap Ring SH-125	4
12	SZPG-1650	Key: 1/4 Sq	2
13	SZ126046	Bolt: 5/16 - 18 UNC - .75	12
14	SZPG-1805	Washer: 1.250 - .134	3
15	SZPG-1855	Exp. Plug: 2.00	1
16	SZPG-1872	Plug: 3/8 NPT	2
17	SZPG-2809-1	Shield: 1.25	1
18	SZPG-5161	Quill Shaft	1
19	SZPG-5162	Cross Shaft	1

CEQUENT™ TRAILER PRODUCTS

FULTON Work Winches

Read, Understand, Follow and Save These Instructions

Read, understand and follow all of these instructions and warnings (Instructions) before installing and using this product. Install and use this product only as specified in these instructions. Improper installation or use of this product may result in property damage, serious injury, and/or death. Never allow installation or use of this product by anyone without providing them with these instructions. You must read, understand and follow all instructions and warnings for any product(s) to which this product is used in conjunction with or installed. Save these instructions with the product for use as a reference for any future installation and use of the product.

⚠ WARNING

Failure to follow these warnings and instructions may result in property damage, serious bodily injury, and/or death.

- Purchaser/owner must ensure that product is installed according to these instructions. Purchaser/owner must not alter or modify the product.
- Operator and bystanders should never position any part of body under or on the path of any portion of this product or the load being supported, or moved.
- Do not allow children to play on or around this product or the load being supported, or moved.
- Do not use winch to move humans.
- Do not get oil or grease on the friction discs. This could allow the load to slip or fall.
- Obey crank rotation decal and operating instructions.
- Never exceed the maximum rated capacity. Refer to stamped markings on side of frame to obtain rated capacity. If uncertain, contact Cequent Trailer Products at 800-604-9466 or www.cequentgroup.com
- Always inspect the cable and its attachment before each use to make sure they are not

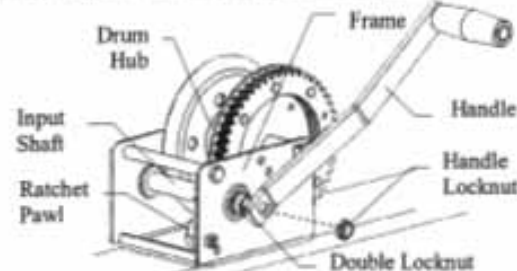
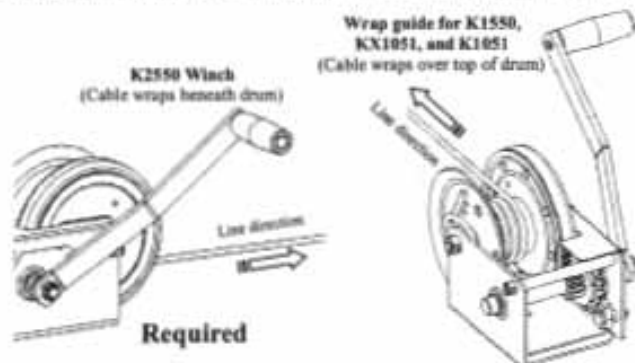
- damaged. Never use worn, kinked, or frayed cable. If the cable or attachment breaks, the cable will whip violently, causing property damage, serious bodily injury, and/or death.
- Never stand along side the winch cable or rope or guide the cable or rope with your hands.
- Never operate with slippery, wet, or oily hands and always maintain a firm grip on the winch handle. Do not attempt to stop a winch by grabbing the handle while in motion.
- Always maintain a minimum of three (3) complete wraps of cable or rope on the drum.
- Only winches that have a minimum hub diameter of 1 3/4" can accommodate steel cable.
- Assure there is adequate safety factor, of at least 3 times the maximum load for all components used.
- A loud clicking sound from the ratchet must be heard when lifting the load. If a loud clicking sound is not heard, do not use and replace ratchet components immediately.
- Never release the crank handle unless the ratchet pawl is fully engaged and the load is supported.

- In no case will a one-way ratchet pawl system hold the load when it is being let out.
- Never leave a weight supported from the winch while the winch is unattended, as another person may attempt to operate the winch, thereby creating an unsafe condition.
- This winch is designed for manual operation only and the load rating is based on an intermittent duty cycle.
- Excessive force in turning winch handle may indicate overload. Fulton brand winches require 25-45 lbs of handle force to pull their rated load.
- If you cannot crank the winch with one hand you are potentially overloading the winch.
- Winches are not designed to secure boats to trailers while towing. Boat tie downs should be used for this purpose.
- Periodically check mounting hardware for proper torque and tighten if necessary.
- Always replace bent, broken, or worn parts before using this product.

Installation Instructions

Warning: Failure to follow all installation instructions could result in winch failure.

(Mounting hardware not supplied.) The winch stand must be capable of supporting at least five times the rated capacity of the winch. The mounting surface must be equal to or greater than the footprint of the winch frame. When attaching the trailer winch, use 3/8" dia. grade-5 hardware and torque to 28-30 ft-lbs. Mounting bolts will vary in length for each application. Check final installation and make sure winch is secure to mounting structure.



Attaching a Handle:

Assemble the handle onto the flatted input shaft end. Tighten the 1/2"-13 locknut against handle and torque to 22-25 ft-lbs. Do not over torque. Do not adjust the double locknuts on the long end of the input shaft.

Attaching a Rope:

Attaching a rope to the winch drum requires no bolts, nuts, or clamp. The rope must weave through the drum outer wall and be secured beneath itself as shown in the illustration.

Attaching a Steel Cable to a Drum:

Pass the cable from the inside of the drum through one of the dimpled holes in the outer plate. Loop the cable around the drum bearing, under itself, and leave 1" of cable extending past the clamp location. Tighten the clamp nuts to approximately 2 ft-lbs.



Illustration only. Do not remove drum to install cable or rope.

Prior to Use

- Inspect rope or cable and replace if damaged.
- Check mounting hardware for proper tightness and re-torque if necessary.
- Gears, ratchet pivot point and shaft bushings must be kept lubricated with a thin oil or grease.

Operation

Take Line/Load In:

- 1) The cable must be securely fastened to the object being lifted and to the winch drum.
- 2) Always be sure that the cable and cable attachments are not damaged and are strong enough for the load. Assure there is adequate safety factor, of at least three times the maximum load for all components used.
- 3) Referring to the "Cable In/Cable Out" decal on the winch, turn handle according to the specified direction to lift. The ratchet MUST make a loud clicking sound while pulling line in.

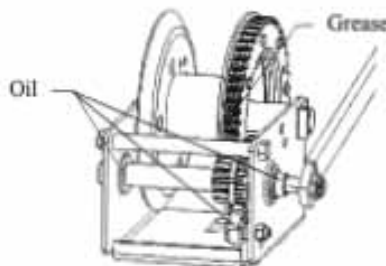
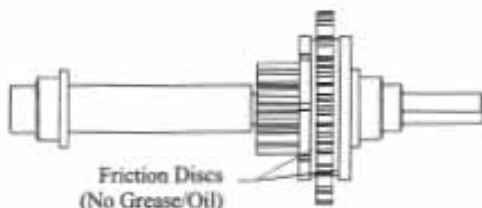
Let Line/Load Out:

- 1) Referring to the "Cable In/Cable Out" decal on the winch, turn handle according to the specified direction to lower. No clicking will be heard because the brake system is activated.

Maintenance

The following procedures should be performed at least annually:

- 1) The gears and bushings of the winch must be kept lubricated. Apply a thin film of grease to the gear teeth, and oil the bushings as needed.
- 2) The ratchet pawl pivot point must be kept lubricated with a thin oil.
- 3) Do not get oil or grease on the friction discs.



How to Order

Use only Cequent Trailer Products' parts or parts of equal quality for repair. Replacement parts are available through Cequent Trailer Products' Customer Service Department, 715-693-1700 or 800-604-9466. Please specify product model number. Visit www.cequentgroup.com for additional details.

Limited Warranty

Warranty. Cequent Trailer Products, Inc. ("We") warrants to the original consumer purchaser ("You") that the product will be free from defects in material and workmanship for a period of one year for "Value Series" products, three years for "Standard Series" and five years for "High Performance Series", under normal use and service and subject to the terms of this Limited Warranty. If the product does not comply with this warranty, We will replace the product without charge to You and within a reasonable time or, at our option, refund the purchase price. This warranty is not transferable. A warranty replacement or repair of a claimed nonconforming product shall not extend the warranty period.

Limitations on the Warranty. The warranty does not cover the following: (a) normal wear and tear; (b) damage through abuse, neglect, misuse (such as use inconsistent with our operating and maintenance instructions) or accident; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance or (e) a product altered in any manner by anyone other than us. OUR EXPRESS WARRANTY STATED ABOVE IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, BOTH OF WHICH ARE EXPRESSLY DISCLAIMED, SUBJECT TO ANY STATE LAW LIMITATION THAT MAY APPLY TO YOU.

Obligations of Purchaser. To make a claim, contact us at 1050 Indianhead Drive, Mosinee, WI 54455, 1-800-604-9466, identify the product, and follow the instructions that will be provided. At our request, you must return any allegedly nonconforming product to us for inspection, testing and validation of the nonconformity. Any returned product that is replaced or refunded becomes our property. You will be responsible for shipping costs to us. Your purchase receipt to verify date of purchase must be produced with your warranty claim.

Remedy Limits. Refund of the purchase price or replacement of the product is your sole remedy under this or any other warranty on the product. WE WILL NOT BE LIABLE FOR ANY CLAIMS OF ANY KIND GREATER THAN THE PURCHASE PRICE OF THE PRODUCT. IN NO EVENT WILL WE BE LIABLE FOR YOUR PURCHASE OF SUBSTITUTE GOODS, OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, SUBJECT TO ANY STATE LAW LIMITATION THAT MAY APPLY TO YOU.

Legal Rights. This warranty gives you specific legal rights, and You also may have other rights which vary from state to state.

This warranty is governed by the laws of the United States of America and is void where prohibited.

Cequent Trailer Products
1050 Indianhead Dr., P.O. Box 8 Mosinee, WI 54455-0008
800/604-9466 715/693-1700 Fax 715/693-1799
TR-Sales@cequentgroup.com
www.cequentgroup.com

We declare under our sole responsibility that the Fulton Work Winch is in conformity with EN-12100-2:2003 Safety Machinery; Machinery Directive 98/37/EC.



Farm King Limited Warranty

This document limits your warranty rights.

Base Limited Warranty

Buhler Industries Inc. provides this warranty only to original retail purchasers of its product. Buhler Industries Inc. warrants to such purchasers that all Buhler Industries Inc. manufactured parts and components used and serviced as provided for in the Operator's Manual shall be free from defects in materials and workmanship for a period following delivery to the original retail purchaser of 12 months (80 days for commercial applications). This limited warranty applies only to those parts and components manufactured by Buhler Industries Inc. Parts and components manufactured by others are subject to their manufacturer's warranties, if any.

Buhler Industries Inc. will fulfill this limited warranty by, at its option, repairing or replacing any covered part that is defective or is the result of improper workmanship, provided that the part is returned to Buhler Industries Inc. within thirty (30) days of the date that such defect or improper workmanship is, or should have been, discovered. Buhler Industries Inc. reserves the right to either inspect the product at the buyer's location or have it returned to the factory for inspection. Parts must be returned through the selling representative and the buyer must prepay transportation charges.

Buhler Industries Inc. will not be responsible for repairs or replacements that are necessitated, in whole or part, by the use of parts not manufactured by or obtained from Buhler Industries Inc. Under no circumstances are component parts warranted against normal wear and tear. There is no warranty on product pump seals, product pump bearings, rubber product hoses, pressure gauges, or other components that require replacement as part of normal maintenance. Also: Buckets and Bucket Tines carry no warranty, Bent Spears carry no warranty, Snowblower Fan Shafts carry no warranty, Mower Blades carry no warranty, Portable Auger Parts have Two (2) Year Warranty, Loader Parts have Two (2) Year Warranty. The purchaser is solely responsible for determining suitability of goods sold. This warranty is expressly in lieu of all other warranties expressed or implied. Buhler Industries Inc. will in no event be liable for any incidental or consequential damages whatsoever. Nor for any sum in excess of the price received for the goods for which liability is claimed.

Repair Parts Limited Warranty

Buhler Industries Inc. warrants Farm King replacement parts purchased after the expiration of the Buhler Industries Inc. Limited Warranty, and used and serviced as provided for in the Operator's Manual, to be free from defects in materials or workmanship for a period of thirty (30) days from the invoice date for the parts. Buhler Industries Inc. will fulfill this limited warranty by, at its option, repairing or replacing any covered part that is defective or is the result of improper workmanship, provided that the part is returned to Buhler Industries Inc. within thirty (30) days of the date that such defect or improper workmanship is, or should have been, discovered. Such parts must be shipped to Buhler Industries Inc. at the purchaser's expense.

What is Not Covered

Under no circumstances does this limited warranty cover any components or parts that have been subject to the following: negligence; alteration or modification not approved by Buhler Industries Inc.; misuse; improper storage; lack of reasonable and proper maintenance, service, or repair; normal wear; damage from failure to follow operating instructions; accident; and/or repairs that have been made with parts other than those manufactured, supplied, and or authorized by Buhler Industries Inc.

Authorized Dealer and Labor Costs

Repairs eligible for labor under this limited warranty must be made by Buhler Industries Inc. or an authorized Farm King dealer. Buhler Industries Inc. retains the exclusive discretion to determine whether it will pay labor costs for warranty repairs or replacements, and the amount of such costs that it will pay and the time in which the repairs will be made. If Buhler Industries Inc. determines that it will pay labor costs for warranty work, it will do so by issuing a credit to the dealer's or distributor's account. Buhler Industries Inc. will not approve or pay invoices sent for repairs that Buhler Industries Inc. has not previously approved. Warranty service does not extend the original term of this limited warranty.

Warranty Requirements

To be covered by warranty, each Farm King new product must be registered with Buhler Industries Inc. within thirty (30) days of delivery to original retail purchaser. If the customer decides to purchase replacement components before the warranty disposition of such components is determined, Buhler Industries Inc. will bill the customer for such components and then credit the replacement invoice for those components later determined to be covered by this limited warranty. Any such replacement components that are determined not be covered by this limited warranty will be subject to the terms of the invoice and shall be paid for by the purchaser.

Warranty Claims:

Warranty requests must be prepared on Buhler Industries Inc. Warranty Claim Forms with all requested information properly completed. Warranty Claims must be submitted within a thirty (30) day period from date of failure repair.

Warranty Labor:

Any labor subject to warranty must be authorized by Buhler Industries Inc. The labor rate for replacing defective parts, where applicable, will be credited at 100% of the dealer's posted shop rate.

Exclusive Effect of Warranty and Limitation of Liability

TO THE EXTENT PERMITTED BY LAW, BUHLER INDUSTRIES INC. DISCLAIMS ANY WARRANTIES, REPRESENTATIONS, OR PROMISES, EXPRESS OR IMPLIED, AS TO THE QUALITY, PERFORMANCE, OR FREEDOM FROM DEFECT OF THE COMPONENTS AND PARTS COVERED BY THIS WARRANTY AND NOT SPECIFICALLY PROVIDED FOR HEREIN.

TO THE EXTENT PERMITTED BY LAW, BUHLER INDUSTRIES INC. DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ON ITS PRODUCTS COVERED HEREIN, AND DISCLAIMS ANY RELIANCE BY THE PURCHASER ON BUHLER INDUSTRIES INC.'S SKILL OR JUDGMENT TO SELECT OR FURNISH GOODS FOR ANY PARTICULAR PURPOSE. THE PURCHASER'S ONLY AND EXCLUSIVE REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON PRODUCTS MANUFACTURED BY BUHLER INDUSTRIES INC. ARE THOSE SET FORTH HEREIN. IN NO EVENT SHALL BUHLER INDUSTRIES INC. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BY WAY OF EXAMPLE ONLY AND NOT LIMITATION, LOSS OF CROPS, LOSS OF PROFITS OR REVENUE, OTHER COMMERCIAL LOSSES, INCONVENIENCE, OR COST OF REPLACEMENT OF RENTAL EQUIPMENT). IN NO EVENT SHALL FARM KING'S CONTRACT OR WARRANTY LIABILITY EXCEED THE PURCHASE PRICE OF THE PRODUCT.

(Note that some provinces or states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusion may not apply to you.) This warranty gives you specific legal rights and you may also have other rights, which vary from province to province or state to state.

Buhler Industries Inc. neither assumes nor authorizes any person or entity, including its selling representatives, to assume any other obligations or liability in connection with the sale of covered equipment, or to make any other warranties, representations, or promises, express or implied, as to the quality, performance, or freedom from defect of the components and parts covered herein. No one is authorized to alter, modify, or enlarge this limited warranty, or its exclusions, limitations and reservations.

Corrections of defects and improper workmanship in the manner, and for the applicable time periods, provided for herein shall constitute fulfillment of all responsibilities of Buhler Industries Inc. to the purchaser, and Buhler Industries Inc. shall not be liable in negligence, contract, or on any other basis with respect to the subject equipment.

This limited warranty is subject to any existing conditions of supply which may directly affect Buhler Industries Inc.'s ability to obtain materials or manufacture replacement parts.

Buhler Industries Inc. reserves the right to make improvements in design or changes in specifications to its products at anytime, without incurring any obligation to owners of units previously sold.

Government Legislation:

Warranty terms and conditions are subject to provincial or state legislation.

Important Note: This warranty does not apply to rentals.

Serial Number Location

The following page contains a space for you to record the information about your portable grain auger found on this plate. Please record this information here for future reference.

NOTE: The auger serial number is located on the second upright support on the lower cradle.

Farm King Number: _____

Farm King Serial Number: _____

Component Serial Numbers:

Manufacturer	Part Number	Serial No.	Notes:

www.farm-king.com

Farm King

1330 43rd Street NW
Fargo, ND USA 58102
Ph.: 701.282.7014 | Fax: 701.282.5865
Toll Free: 888.524.1004
E-mail: info@buhler.com
www.farm-king.com

Equipment shown is subject to change without notice.
©2011 Buhler Trading Inc. Printed in USA. TSX:BUI

bühler | a division of Buhler Industries Inc.