PORTABLE AUGER

OWNER'S & OPERATOR'S MANUAL

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AGI HUTCHINSON MAYRATH

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GENERAL SAFETY STATEMENT

This manual was written with the safety of the operator and others who work with the equipment as our prime concern. The instructions presented will help the reader learn SAFE day to day work practices. We want you as our partner in safety.

It is your responsibility as an owner, operator or supervisor to know what specific safety requirements and precautions exist and to make these known to all other personnel working with the equipment or in the area, so that they too may safely perform their duties and avoid any potentially hazardous situations.

Please remember safety equipment provides important protection for persons around a grain handling system that is in operation. Be sure that ALL safety shields and protection devices are installed and properly maintained. If any shields or guards are damaged or missing, contact your dealer to obtain the correct items.

Avoid any alterations of the equipment. Such alterations may create a dangerous situation where serious injury or death may occur.

SAFETY ALERT SYMBOL

The symbol shown below is used to call your attention to instructions concerning your personal safety. Watch this symbol - it points out important safety precautions. It means "ATTENTION! Become alert! Your personal safety is involved!" Read the message that follows and be alert to the possibility of personal injury or death.

BE ALERT! YOUR SAFETY IS INVOLVED.

WARNING

Anyone who will operate or work around this machine shall first read this manual! This manual must be delivered with the equipment to its owner. Failure to read this manual and its safety instructions is a misuse of the equipment.

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RIGHT and LEFT DESIGNATION

When determining which is the left or right hand side of the unit, it is as if a person were standing at the intake end and looking toward the discharge end.

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POLICIES and PROCEDURES

Prices: Prices in effect at time of shipment will apply. Prices are subject to change without notice. All prices are F.O.B. Clay Center, Kansas. Orders shipped from locations other than Clay Center, Kansas will be subject to additional charges, such as back freight and/or additional freight.

Service Charge: A service charge will be assessed for all past due balances as permitted by state law not to exceed 1-1/2% per month.

Minimum Order: Processing and handling costs necessitate a minimum charge of $15.00 net on all orders.

Back Orders: Back orders will be shipped as they become available. Contact Hutchinson,Mayrath Customer Service for alternative shipping options or if cancellation is desired.

Damaged Goods: It is the consignee's responsibility to check all shipments thoroughly upon receipt of goods. If any damage is discovered, it must be noted on the freight bill of lading before signing. The consignee must make necessary claims against the respective freight line. All damage claims must be submitted within 30 days of delivery receipt.

Shortages: All shortages must be noted at time of delivery. Shortages must be noted on the freight bill of lading before signing. Hutchinson,Mayrath must be advised of all concealed shortages upon discovery. Once notified of concealed shortages Hutchinson,Mayrath will advise corrective action to be taken.

Return of Goods: All returns must be approved by Hutchinson,Mayrath prior to shipment. All return requests will be issued a return authorization number. NO RETURNS WILL BE ACCEPTED WITHOUT A RETURN AUTHORIZATION NUMBER AND PRIOR AUTHORIZATION FROM THE FACTORY. All returns must be shipped prepaid. A 15% restocking charge will be applied to all returned merchandise. Custom Products may not be returned for credit. Only current products in new and salable condition may be returned. No safety devices may be returned for credit.

Modifications: It is the policy of Hutchinson,Mayrath to improve its product whenever possible and practical to do so. We reserve the right to make changes, improvements and modifications at any time without incurring the obligation to make such changes, improvements and modifications on any equipment sold previously.

Limited Warranty: (a) For a period of (1) year after receipt of goods by the original consumer buyer, Hutchinson,Mayrath will supply free of charge replacement parts for parts that prove defective in workmanship or material. Defective parts must be returned freight prepaid to a specified Hutchinson,Mayrath location. Only Hutchinson,Mayrath original repair parts may be used for warranty repairs.
(b) This limited warranty does not extend to parts designed to wear in normal operation and be replaced periodically; or to damage caused by negligence, accident, abuse or improper installation or operation.
(c) GOODS NOT MANUFACTURED BY HUTCHINSON,MAYRATH CARRY ONLY THE MANUFACTURER'S WARRANTY.
(d) THIS UNDERTAKING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

FAILURE TO FOLLOW THE INSTRUCTIONS CONTAINED IN THE OWNER'S & OPERATOR'S MANUALS AND THE ITEMS LISTED BELOW WILL RESULT IN THE VOIDING OF THIS LIMITED WARRANTY.

(1) Improper assembly, including failure to properly install all safety equipment.
(2) Improper installation.
(3) Unauthorized alternations of goods.
(4) Goods operated when obviously in need of repair.
(5) Use of unauthorized repair parts.
(6) Irresponsible operation.
(7) Used to handle materials other than free flowing, nonabrasive and dry materials, as intended.
(8) Damaged through abusive use or accident.

Limitation of Liability: BUYER AGREES THAT IN NO EVENT SHALL HUTCHINSON,MAYRATH HAVE LIABILITY FOR DIRECT DAMAGES IN EXCESS OF THE CONTRACT PRICE OF THE GOODS IN RESPECT OF WHICH CLAIM IS MADE. BUYER FURTHER AGREES THAT IN NO EVENT SHALL HUTCHINSON,MAYRATH ON ANY CLAIM OF ANY KIND HAVE LIABILITY FOR LOSS OF USE, LOSS OF PROFITS, OR FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

OPERATOR QUALIFICATIONS

Operation of this portable auger shall be limited to competent and experienced persons. In addition, anyone who will operate or work around a portable auger must use good common sense. In order to be qualified, he must also know and meet all other requirements, such as:

1. Some regulations specify that no one under the age of 16 may operate power machinery. This includes portable augers. It is your responsibility to know what these regulations are in your own area or situation.
2. 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." *
3. Unqualified persons are to stay out of the work area as shown in the work area diagrams. See Page 10.
4. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine.

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

SIGN OFF SHEET

As a requirement of OSHA it is necessary for the employer to train the employee in the safe operation and safety procedures with this auger. We include this sign off sheet for your convenience and personal record keeping.

DATE	EMPLOYER SIGNATURE	EMPLOYEE SIGNATURE

MACHINE INSPECTION

After delivery of your new auger and/or completion of assembly and before each use, inspection of the machine is mandatory. This inspection should include, but not be limited to:

1. Check to see that all guards listed in the assembly instructions are in place and secured and functional. Input Drive Line must rotate easily. If an assembly manual was not received with this auger, check with your Hutchinson Dealer or contact the factory.
2. Check all safety signs and replace any that are worn, missing or illegible. The safety signs are listed in the back of the assembly manual. Safety signs may be obtained from your Hutchinson Dealer or ordered from the factory.
3. Check winch and cable for security and operation. There should be at least three complete wraps of cable around winch drum in full down position. Cable anchor on winch drum must be tight.
4. Are all fasteners tight?
5. Are all belts and chains properly adjusted? (See Maintenance Section)
6. Check oil levels in Gearbox. (See Maintenance Section.)

TRANSPORTING AUGERS

TRANSPORT: Moving the Auger with the Towing Vehicle to or from the Work Area.

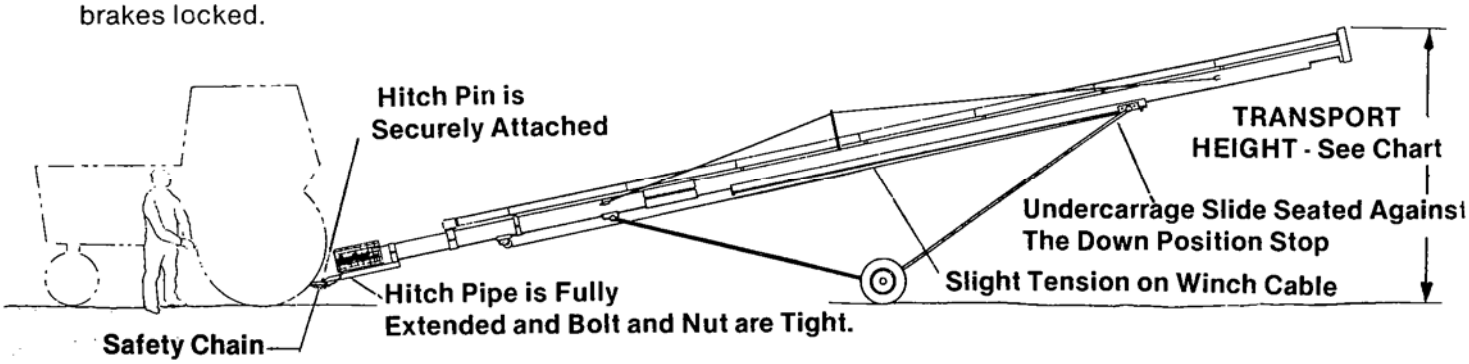
1. HITCHING TO TOWING VEHICLE INSTRUCTIONS.

Make certain the hitch pin is securely attached and an alternate hitch safety chain is secure to the auger and towing vehicle. Check to see that the hitch is fully extended and that the bolt and nut hold-it there is tight.

Never raise the intake end higher than is necessary to attach to a towing vehicle. Weight transfers rapidly to the head end when the intake is raised.

NOTE: Empty machine before moving to prevent upending.

Never stand between tractor and machine when hitching unless all controls are in neutral and the brakes locked.



PORTABLE AUGER IN TRANSPORT POSITION

6″		8″		10″		12″	
AUGER LENGTH	TRANSPORT HEIGHT	AUGER LENGTH	TRANSPORT HEIGHT	AUGER LENGTH	TRANSPORT HEIGHT	AUGER LENGTH	TRANSPORT HEIGHT
27′	9′ 0″	27′	10′ 4″	31′	9′ 9″	31′	10′ 1″
33′	9′ 9″	33′	10′ 6″	41′	10′ 11″	41′	11′ 9″
41′	10′ 6″	41′	10′ 9″	51′	13′ 1″	51′	13′ 2″
47′	11′ 3″	47′	11′ 11″	57′	12′ 11″	61′	13′ 11″
53′	12′ 0″	53′	12′ 2″	61′	13′ 9″	65′	14′ 0″
57′	15′ 6″	57′	10′ 9″	65′	13′ 11″	71′	16′ 6″
62′	15′ 7″	62′	12′ 0″	71′	16′ 6″	81′	16′ 9″
		65′	13′ 3″	81′	16′ 9″	101′	21′ 7″
		71′	16′ 6″				

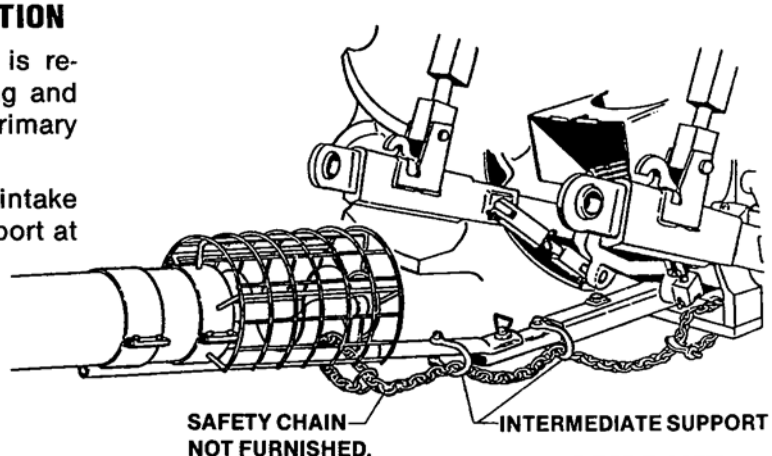
***IMPORTANT: Transport heights are figured with auger attached to towing vehicle with a drawbar height of 1′ 6″. When the auger intake is resting on the ground, add 1′ 6″ to transport height of the auger to achieve the overall auger height.**

ALTERNATE HITCH SAFETY CHAIN INSTALLATION

An auxiliary attachment system (safety chain) is required to retain the connection between towing and towed macines in the event of separation of the primary attachment system.

The safety chain should be routed through the intake chain safety screen and around the bearing support at the lower end of the intake flight.

A clevis or intermediate chain support should be fastened to the hitch pipe no farther than 6″ from the hitch pin. (A hole is provided in the hitch pipe for this purpose.)



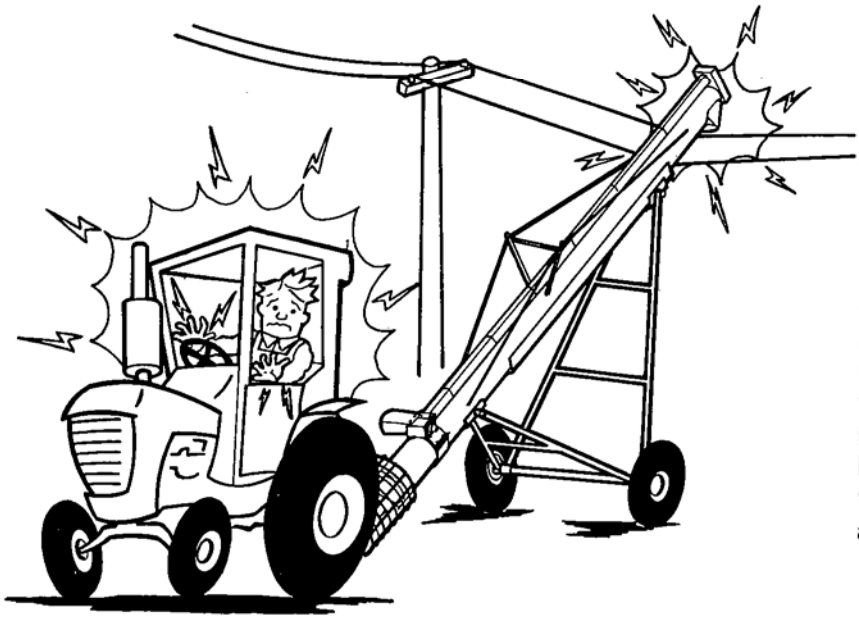
TRANSPORTING AUGERS

2. MOVING AUGER

Moving your portable auger requires careful planning. A route plan should be considered before hand to avoid dangerous obstacles and loss of time.

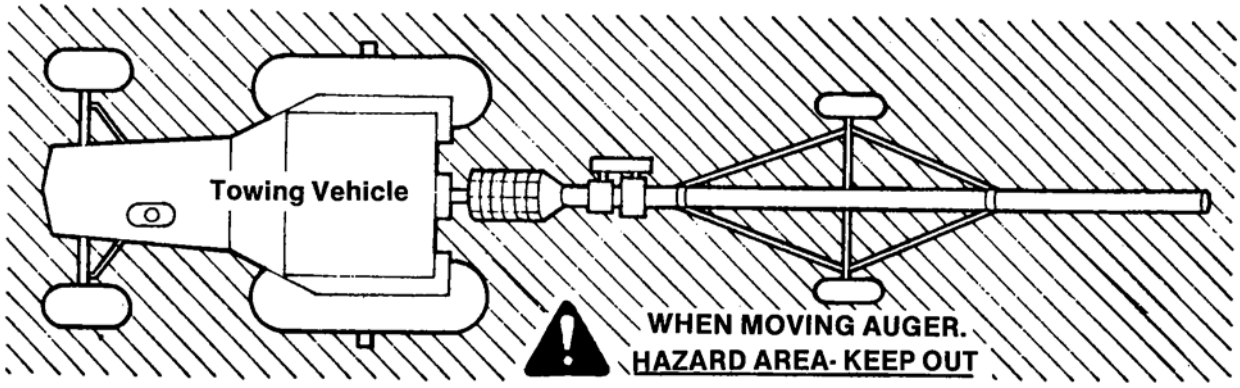
Always transport your auger in the full down position. The lift arm of the undercarriage should be seated against the down position stop with slight tension on the winch cable and at least 3 complete wraps of cable around the winch drum.

Do not transport the auger at speeds in excess of 20 MPH and comply with your state and local regulations governing marking, towing, and maximum width. Observe safe driving and operating practices.



Be alert to overhead obstructions and electrical wires, particularly if towing height is greater than 13′ 6″. Failure to do so may result in electrocution. Lower auger well below level of power lines before moving. Maintain at least ten (10) feet of clearance. Page 5 contains a chart showing the height of each portable auger in the lowered transport position. Check the chart to determine the height of your auger.

Never allow persons to stand underneath or ride on the auger when moving the auger. Make certain everyone is clear of the work area before moving.



PLACEMENT OF AUGER

Placement - Move the auger into its working position with a towing vehicle.

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Step 1

Locate the auger as close as possible to the bin or other structure. Move auger slowly towards working position with towing vehicle -- not by hand. When moving the auger towards the working position leave adequate room for convenient path for loaded vehicles to reach the auger intake area.

Make certain everyone is clear of the work area when moving the auger. To prevent tip-over when backing, avoid rolling over any obstructions, also avoid steep slopes. If the auger is to set on a slope, approach the bin uphill. Avoid moving the auger at right angles to a slope.

Make sure entire area above auger and in line of travel is clear of overhead obstructions and electrical wires. Failure to do so may result in electrocution. Maintain at least ten (10) feet of clearance. Electrocution can occur without direct contact.

Step 2

Raise the auger only high enough to allow minimum clearance above the bin.

See Winch Instructions" on next page for winch operation.

Keep hands away from winch drum during operation.

Step 3

Back auger slowly into working position with towing vehicle. **NEVER MOVE AUGER BY HAND, USE A VEHICLE.**

DO NOT ATTEMPT TO INCREASE AUGER HEIGHT BY POSITIONING WHEELS ON LUMBER, BLOCKS OR BY OTHER MEANS.

Once in place the wheels should be chocked on both sides of auger so it will not roll when disconnected from the towing vehicle.

When releasing from the towing vehicle, test the intake end for downward weight. **LOSER IT SLOWLY TO THE GROUND. NOTE:** Weight transfers rapidly to the head end if the intake is raised above the tow bar., particularly when the auger is in a raised position.

Remove bolt for hitch and fully retract hitch pipe.

If a hopper is to be used, install at this time.

Lower the auger until discharge spout in bin hole opening or discharge opening is directly over opening.

The auger should be anchored at the intake end and/or support at the discharge end. This will prevent auger from tipping when weight transfers to top end as auger empties. It is a good practice to tie the discharge end of the auger to the bin or grain storage structure to prevent possible wind damage. Remember to untie the auger before attempting to move.

NOTE: When discharging in a grain spreader, always maintain at least 12 inches space between the auger discharge and the spreader. If the possibility of plugging the auger spout exists, use the optional Hutchinson Safety Spout.

WINCH INSTRUCTIONS

HAND WINCH - OPERATION

Check the handle assembly on your auger to determine that it has been assembled correctly. See assembly section. There should be eithter a retaining ring or a hex head bolt with flat washer attached at the end of the winch shaft to prevent inadvertent removal of the winch handle.

TO RAISE THE AUGER WITH HAND WINCH

Turn the handle, clockwise (pull cable onto winch drum). There should be a clicking sound. **NOTE: The winch is equipped with a brake that is actuated by turning the handle. The brake is designed to hold the load whenever the handle is released.**

NOTE: Observe the cable as it is winding onto the winch drum. The cable should roll up on the drum evenly; avoid cable build on one side of the drum.

TO LOWER AUGER WITH HAND WINCH

Turn the handle counter-clockwise; there will be no clicking sound. To stop while lowering the auger, turn the handle clockwise until you hear two clicks to lock brake. (About 6" movements of the handle.)

Never fully extend the cable and always keep three complete turns of cable around winch drum. Never operate winch with wet or oily hands and ALWAYS use a firm grip on the handle.

Too light a load will not overcome the frictional forces in the winch. NEVER CONTINUE TURNING THE HANDLE COUNTER-CLOCKWISE IF THE CABLE DOES NOT KEEP MOVING OUT. This will disengage the brake mechanism and can create an unsafe condition.

CAUTION: The brake disc will get HOT when lowering the auger to fast. If brake is smoking, or squeals, stop lovering and let brake cool for 15 minutes. DO NOT TOUCH BRAKE!

WORM GEAR HYDRAULIC WINCH - OPERATION

During periods of prolonged operation or severe operation the gearbox will become heated. When this type of operation is continued the lubricant may break down because of heat. Operation should be stopped until the gearbox has cooled off. When the lubricant breaks down the motor will slow down noticeably and the unit will operate as though the load were greater than it actually is. Smoke may be noticed emerging from the vent plug at the top of the gearcase and the smell of burnt lubricant may be present. At this point gear wear will become quite severe and for this reason, operation must be stopped until the unit has had time to cool down. It should be noted that this type of heating may occur when the unit is "wearing in" and usually will not be a problem once the unit has had a chance to cool down. When these units are operating they become hot enough to cause a burn if touched. Be sure not to allow others to touch the gearcase or touch the gearcase yourself. Hot running is normal when operations are prolonged. However, when signs of overheating are present, operation must be stopped, or destruction of the gearbox may result.

1. **Do not disconnect hydraulic components when there is pressure within those components. Hydraulic systems are highly pressurized. Excaping hydraulic oil, even an invisible pinhole leak, can penetrate body tissues and cause serious injury. Use a piece of wood or cardboard when looking for leaks. Never use the hands or other parts of the body. When reassembling, make absolutely certain that all connections are tight. If injured by hydraulic oil escaping under pressure, see a doctor immediately. Serious infection or reaction may occur if medical attention is not received at once.**

SAFETY REMINDERS

(1) Operator must pay attention during raising and lowering auger.
- (A) Watch cable to see if it is coiling properly onto winch drum evenly.
- (B) Keep hands away from winch drum during operation.
- (C) Don't use hands to guide cable onto winch drum during winch operation.
- (D) Don't allow auger to become hung up.
- (E) Don't continue to raise auger after slide reaches stop.

WINCH INSTRUCTIONS (CONT'D)

ELECTRIC TYPE WINCH - OPERATION

This winch is optional on all 6", 8" augers, 10" x 31' through 65' augers and 12" x 31' through 51' augers. When using the electric winch, follow the operating instructions and precautions listed in material supplied with the winch by the manufacturer.

Your winch is designed to operate from a 12 volt direct current source. The best source is the 12 volt battery in your car, truck or tractor.

CAUTION: DO NOT connect your winch to 110 volt A.C. power. Also, be sure your power source is not 24 volt D.C.

Leave your vehicle in park or neutral with the parking brake engaged and the engine running. Under normal and proper operating conditions, the winch will have little effect on a fully charged battery.

SWITCH OPERATION

When operating winch, rotate switch rapidly and hold firmly against stop in either the power in or power out positions. If not held against stop, you will have only partial contact causing reduced performance and switch life. For raising auger hold the switch in the "power-in" position until the auger is raised to desired height. For lowering, hold the switch in the "power-out" position until auger is lowered. To stop lowering at any point simply permit the switch to return to the **"off"** position.

Connect Wiring Harness to Winch

The wiring harness is designed to remain in the trunk of your car and out of the weather when not in use. **Do not travel with the harness connected to your winch.**

With the black wire at the top, attach the wiring harness to the winch by first lining up the polarized connectors, as shown in Figure A. Slide the harness connector assembly into the mating recepticle located on the lower left rear of the winch housing. By lightly pulling on the harness connectors, the harness can be easily removed for storage.

(IMPORTANT: Do not pull on the wires coming out of the connectors as they may become weakened or damaged.)

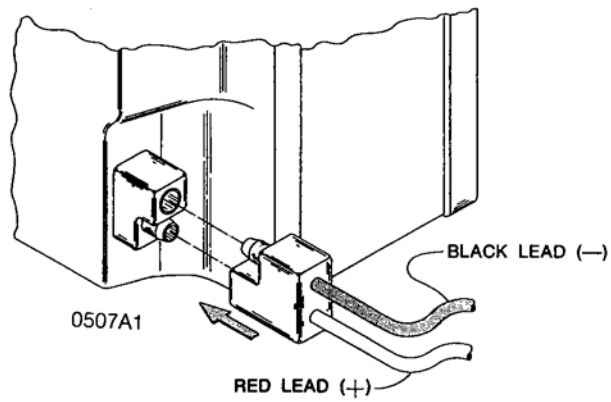


FIG. A

Auxiliary Handle

An auxiliary handle is provided for use in emergencies only (such as electrical failure). Never use the handle as an assist during normal operation.

1. Disconnect wiring harness from winch.
2. Remove rear plug. (Figure B)
3. Insert handle until drive clip engages flats on transmission output shaft (1).
4. Turn handle counter clockwise to raise or clockwise to lower.
5. Do **not** leave handle connected to winch after use.

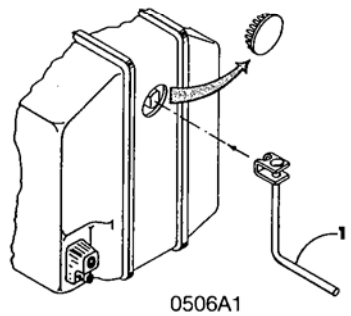
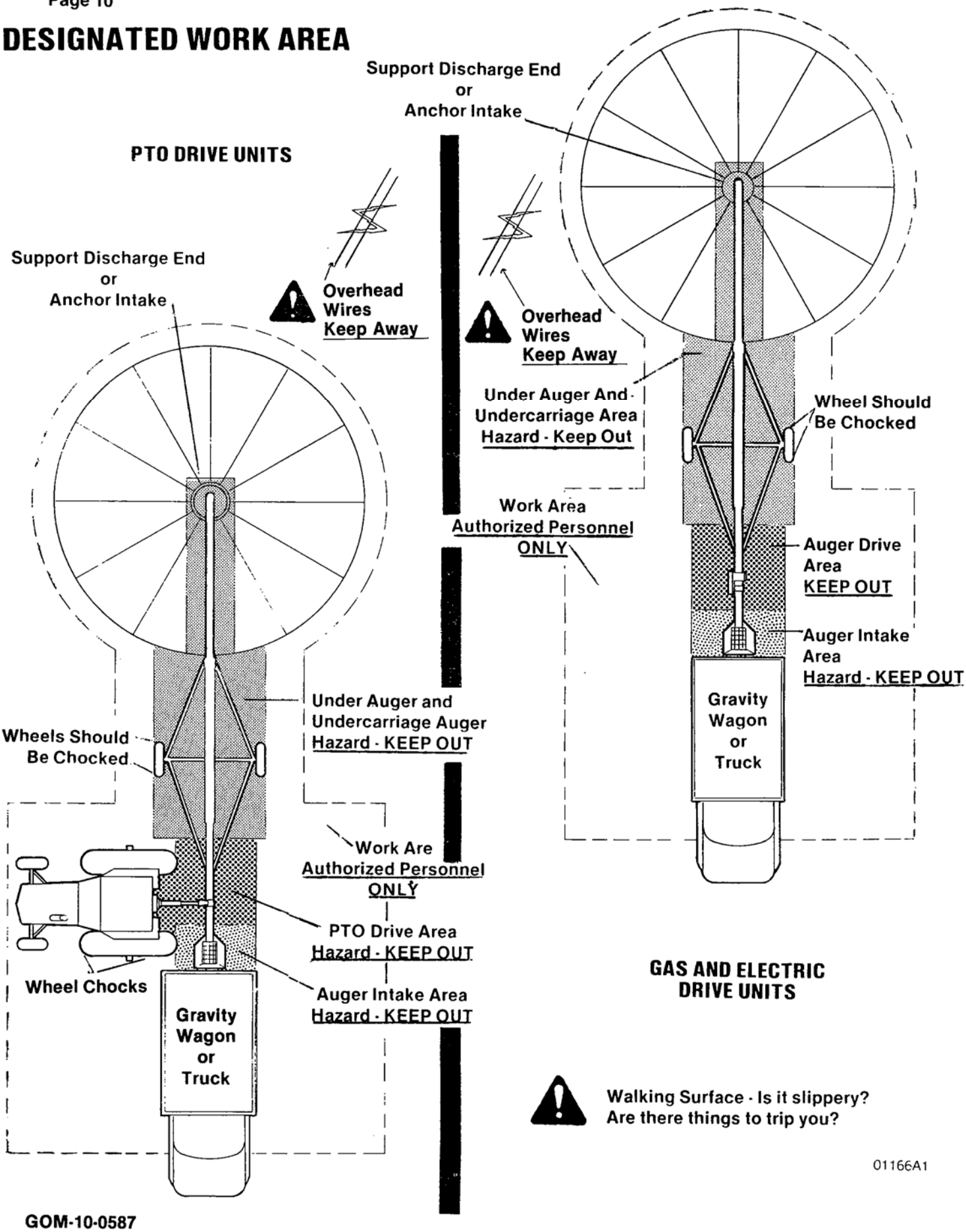


FIG. B

WARNING: Never operate winch electrically with the auxiliary handle installed. This can cause the handle to spin at a high speed.

DESIGNATED WORK AREA



DESIGNATED WORK AREA (CONT'D)

Before starting the auger, designated work area should be established and properly marked.

The following diagrams on page 10 will show the manufacturers designated work areas. These areas shall be marked off with colored nylon or plastic rope hung as portable barriers to define the designated work areas.

RULES FOR SAFE WORK AREA

Under no circumstances should persons not involved in the operation be allowed to trespass into the work area.

It shall be the duty of all operators to see that children and/or other persons stay out of the work areas! Trespass into the work area by anyone not involved in the actual operation, or trespass into a hazard area by anyone, shall result in an immediate shut down by the operator.

It shall be the responsibility of all operators to see that the work area has secure footing, is clean and free of all debris, and tools which might cause accidental tripping and/or falling. It shall also be their responsibility to keep the work area clean and orderly during the operation.

OPERATING PROCEDURES

Start-Up and Break-In Information

It is essential to inspect your drive before adding power and know how to shut down in an emergency.

During the operation of your auger, one person shall be in a position to monitor the operation. Any screw conveyor when it is new or after it sets idle for a season should go through a "break-in" period. The auger should be run at partial capacity until several hundred bushels of grain have been augered to polish the flighting assembly and tube. When the screw and tube are polished and smooth the auger can be run full.

Never operate the auger empty for any length of time as excessive wear will result. If at all possible do not stop or start the auger load, especially before the flight and tube become well polished, as this may cause auger to "freeze-up".

During the initial start-up and break-in period, the operator shall be aware of any unusual vibrations or noises.

Keep all safety shields and devices in place.

Keep hands, feet and clothing away from moving parts.

The operator should have a full view of the auger Work Area and check that all personnel are free from Hazard Areas before adding power.

Proper auger flight speed is important for efficient operation of the auger.

1. If the flight speed is in excess of what is recommended, excessive wear will result.
2. If the flight speed is slow, the auger flighting is permitted to "load-up". Then high torque will be required to turn the auger flighting, and damage to the auger can result. Use an optional Hutchinson control gate to control the amount of grain fed into the auger.

Recommended Auger Flight Speed

The chart below shows the "Recommended Auger Flight Speed" in relationship to "Gear Box Input Shaft Speed". The Gear Box Input Speed can be regulated by the pulley sizes used on the electric motor or by the PTO speed of the tractor. **NOTE: Use the tractor tachometer to determine the PTO speed which is the same as Gear Box Input Shaft Speed.**

AUGER DIA.	IDEAL Gear Box Input Shaft Speed	= Flight Speed	MAXIMUM Gear Box Input Shaft Speed	= Flight Speed	MINIMUM Gear Box Input Shaft Speed	= Flight Speed	*Drive Ratio
6"	500	= 580 RPM	605	= 700 RPM	390	= 450 RPM	1 to 1.16
8"	530	= 530 RPM	600	= 600 RPM	425	= 425 RPM	1 to 1
10"	545	= 325 RPM	605	= 360 RPM	420	= 250 RPM	1 to .59
12"	545	= 325 RPM	605	= 360 RPM	420	= 250 RPM	1 to .59

***Drive ratio between the gear box input speed and the auger flight speed.**

Whenever you must service or adjust your equipment, make sure you stop your engine and lock out your power source!

OPERATING PROCEDURES
PTO Drive Information

The standard Direct PTO may be driven from either side (as explained in the PTO Drive Assembly Section of the Assembly Manual).

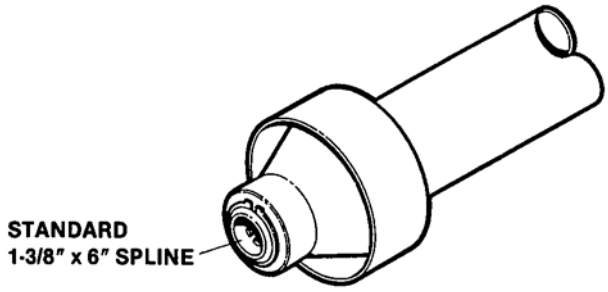
Always use a tractor with 540 RPM Power Take-Off. Before starting the tractor, be certain power to PTO is off.

NOTICE:
The Input Drive Line furnished with the Auger should be equipped with a "Quick Disconnect" Coupler at the tractor end. This type coupler is pring loaded and will fit the standard 1-3/8" x 6" spline PTO Output Shaft from a tractor.

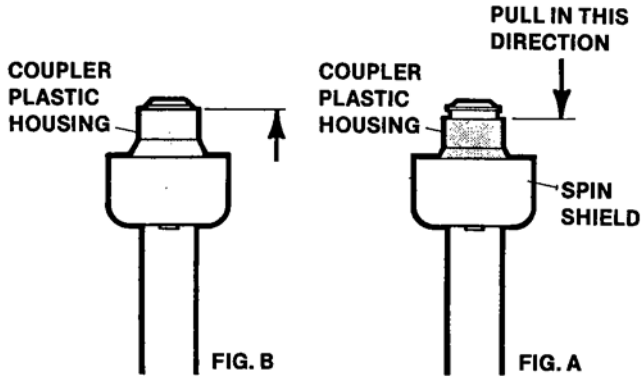
ATTACHMENT INSTRUCTIONS

1. Check inside the coupler to see if clear of dirt and other foreign objects.
2. Align the slots inside the coupler with those of the tractor's PTO Output Shaft. Push coupler onto the tractor's Output Shaft as far as it will go.
3. Pull the coupler plastic housing towards the spin shield as shown in Fig. A. This will allow the shaft to slide onto the tractor's PTO Output Shaft further. Then finish pushing the drive line onto the tractor's Output Shaft. Release the coupler plastic housing, it will return to the end of the coupler as shown in Fig. B.

See if the Input Drive is securely attached and the retaining balls of the "Quick Disconnect" coupler lock into the ring groove of the tractor Output PTO Shaft. Check this by trying to pull the drive line off of the tractor Output PTO Shaft.

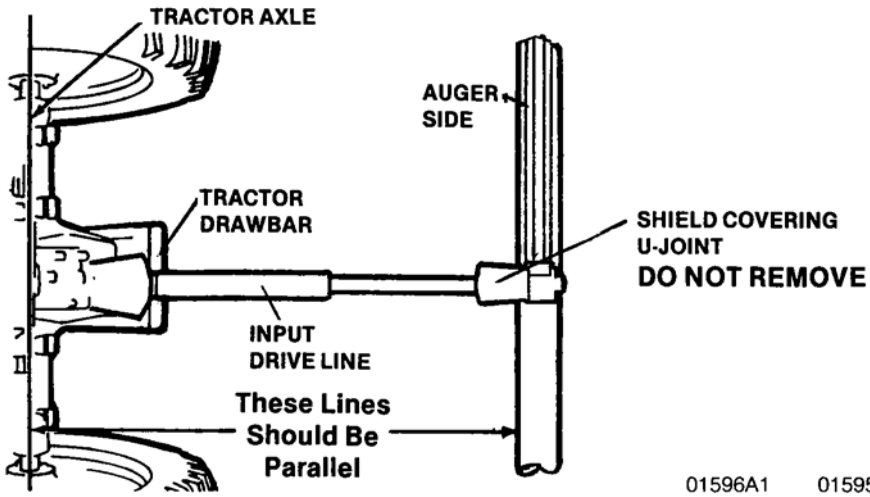


"QUICK DISCONNECT" TYPE COUPLER



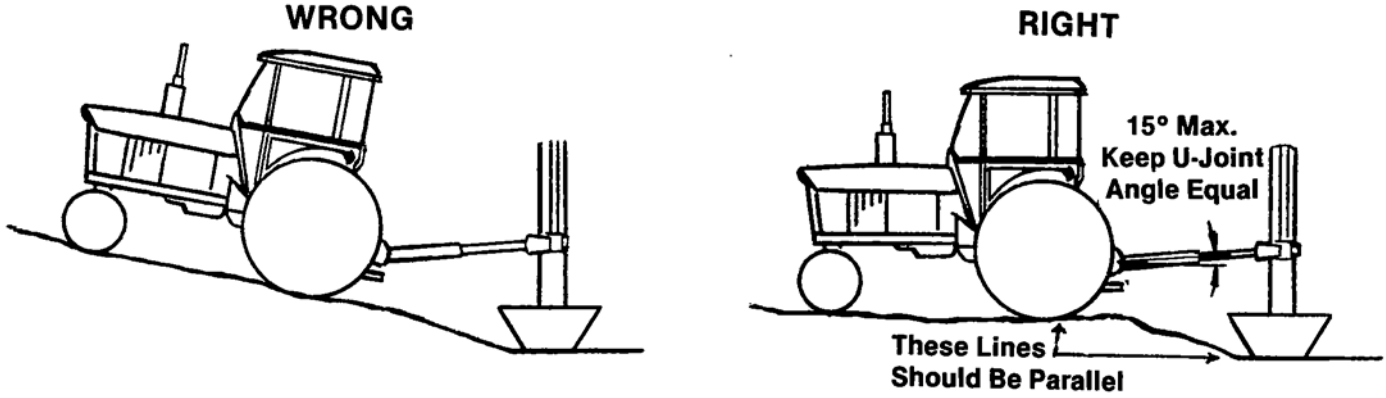
CHECK THE FOLLOWING BEFORE ADDING POWER:

1. Be certain that the Input Drive Line is securely attached to the auger and the tractor.
2. Never use an Input Drive Line without a rotating shield in good working order that you can turn freely on the shaft.
3. Align Input Drive Line with tractor. The Input Drive Line furnished with the auger is a pin stop type--that is, the two telescoping sections will not separate. It is a good practice to operate the PTO in as short a configuration as possible, particularly if a replacement shaft is ever used that is not the pin stop type. Keep the Input Drive Line in as straight a line as possible during operation. When connecting tractor and auger, always make sure the tractor axle and side of auger are parallel. **KEEP THE U-JOINT ANGLE EQUAL.**



OPERATING PROCEDURES

4. If the tractor and auger are on unlevel ground or at different levels, place them so the center line of the tractor and the gearbox shaft are parallel.



WHEN ADDING POWER:

IMPORTANT: Engage PTO at a slow RPM to minimize shock loads. Then work up RPM to recommended speed.

Electric Motor Drives:

Always use a motor with required H.P. suggested in charts below. Use motor that operates at 1750 RPM.

Electric motors and controls shall be installed by a qualified electrician and must meet the standards set by the National Electrical Code and all local and state codes. Reset and Motor Starting Controls must be located so that the operators have full view of the entire operation.

A magnetic starter should be used to protect your motor when starting and stopping. It should stop the motor in case of power interruption, conductor fault, low voltage, circuit interruption, or motor overload. Then the motor must be restarted manually. Some motors have built-in thermal over-load protection. If this type motor is used, use only those with manual reset.

NOTE: Motor Pulleys are not furnished with the auger.

The horsepower recommendations are for augering reasonable dry grain at varying angles. High moisture grain (above 15%) will require greater power and maximum possible capacity will be less with high moisture grain than with dry grain.

Disconnect power before resetting motor overloads.
Make certain electric motors are grounded.

Horsepower Recommendations.

6" AUGERS — Use 3.5" pulley on motor

8" AUGERS — Use 4.0" or 4.5" pulley on motor

10" AUGERS — Use 4.5" pulley on motor

12" AUGERS — Use 4.0" pulley on 31' to 65'. Use 5.0" pulley on 71' and 81'. (on motor)

LENGTH	HORSEPOWER	LENGTH	HORSEPOWER	LENGTH	HORSEPOWER	LENGTH	HORSEPOWER
27'	3	27'	5	31'	7½-10	31'	7½-10
33'	3	33'	5	41'	10-15	41'	10-15
41'	3-5	41'	5	51'	15-20	51'	15-20
47'	5-7½	47'	7-7½	57'	15-20	57'	15-20
53'	5-7½	53'	7½-10	61'	15-20	61'	15-20
57'	7½-10	57'	7½-10	65'	20-25	65'	20-25
62'	7½-10	62'	10-15	71'	20-25	71'	20-25
		65'	10-15	81'	25-30	81'	25-30
		71'	15-20				

OPERATING PROCEDURES (CONT'D)
Gasoline Engine Drive Augers

Always use an engine with required H.P. suggested in the Horsepower Recommendations Charts below. Operate engine at approximately 2000 R.P.M.

The horsepower recommendations are for augering reasonably dry grain at varying angles. High moisture grain (above 15%) will require greater power if maximum capacity is to be maintained. The maximum possible capacity will be less with high moisture grain than with dry grain.

6" AUGERS
***Use 3.0" pulley on motor.**

LENGTH	HORSEPOWER
27'	9
33'	9
41'	9
47'	9
53'	12
57'	18
62'	18

8" AUGERS
***Use 4.0" pulley on motor.**

LENGTH	HORSEPOWER
27'	9
33'	9
41'	12
47'	12
53'	18
57'	18
62'	18
65'	18

10" AUGERS
***Use 4.0" pulley on motor.**

LENGTH	HORSEPOWER
31'	18
41'	18
51'	24
57'	24
61'	24

*Motor Pulleys are **not** furnished with the auger.

CHECK THE FOLLOWING BEFORE ADDING POWER:

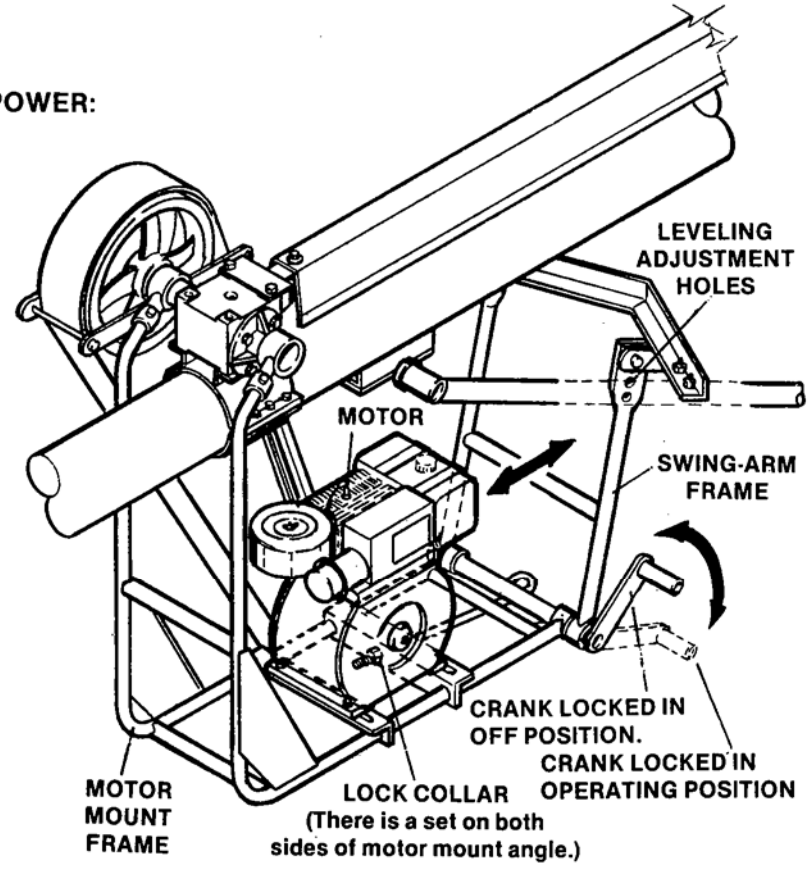
1. The motor mount should be adjusted so gasoline engine will sit in a level position. This can be done by using adjustment holes in swing arm frame. Be sure motor mount is supported to prevent tipping when disconnecting the swing arm from the mounting bracket.
2. The crank assembly should be adjusted for proper belt tension. Adjustment is made by using the sets of lock collars on the guide rods.

Never attempt to adjust or service engine while it is in operation.

3. Fuel supply in fuel tank should be checked. Fuel tank should be vented.

Shut down and allow engine to cool before filling with fuel.

The underslung motor mount for the gasoline engine is equipped with a crank for sliding the engine to tighten the drive belts.



TO START AUGER
1. Start the engine and bring up to working R.P.M.
2. Slowly rotate crank on motor mount until crank locks over center.

TO STOP AUGER
1. Let auger empty of grain before stopping.
2. Disengage crank.
3. Shut-off engine and lockout by removing ignition key, spark plug wire or spark plug.

OPERATING PROCEDURES (CONT'D)

Operating Capacities

6" = 1500 Bushels per hour
8" = 2500 Bushels per hour
10" = 3600 Bushels per hour
12" = 4500 Bushels per hour

The results or capacities of screw conveyors or augers can vary greatly under varying conditions. Different materials, moisture content, amounts of foreign matter, angle of operation, methods of feeding and speed all play a role in the performance of the auger. An auger operating at a 45° incline could be cut 20% in capacity over an auger operating horizontally. Twenty-five (25%) moisture could cut capacity back by as much as 40% under some conditions. If an inclined auger has one foot of grain over the inlet flight it will probably get better capacity than if it had only a one inch covering. On the other hand an auger in the bottom of a cone shaped pit or under a bulk tank with maybe four feet or more of grain on top of it, it may be overfed. This overfeeding would be caused from the weight of the grain over the intake forcing more into the auger than it can efficiently move. The result would be an increased horsepower requirement, extra strain on the drive line, and possibly a complete stalling out. Under the "extra" grain pressure conditions a control gate should be used.

Shutdown

A. NORMAL SHUTDOWN

When shutting down the auger make certain that the hopper and auger are empty before stopping the unit. Before the operator leaves the work area, the power source shall be locked out (See Lockout)

B. INTERMITTENT OPERATION SHUTDOWN

NOTE: When augers are stopped and restarted under full load, it may result in damage to the auger.

Consideration should be given to the proper size auger for a batch drying, or any intermittent type operations. Using a large diameter auger and reducing its load level will be far better than subjecting a smaller diameter auger to high loads. If an auger is kept from absolute filling, it will make start-up easier and will convey more efficiently.

C. EMERGENCY SHUTDOWN

Should the auger be immediately shut down under load, disconnect and lockout the power source. Clear as much grain from hopper and auger as you can. Reconnect power source and clear auger. Never attempt to start when full.

NOTE: Starting the unit under load may result in damage to the auger. Such damage is considered Abuse of the equipment.

Lockout

If the operator must leave the work area, or whenever servicing or adjusting, the auger must be stopped and the power source turned off. Precaution should be made to prevent anyone from operating the auger when the operator is absent from the work area.

PTO DRIVE: Remove ignition key or coil wire from power source. (If this is impossible, remove the PTO shaft from the work area.)

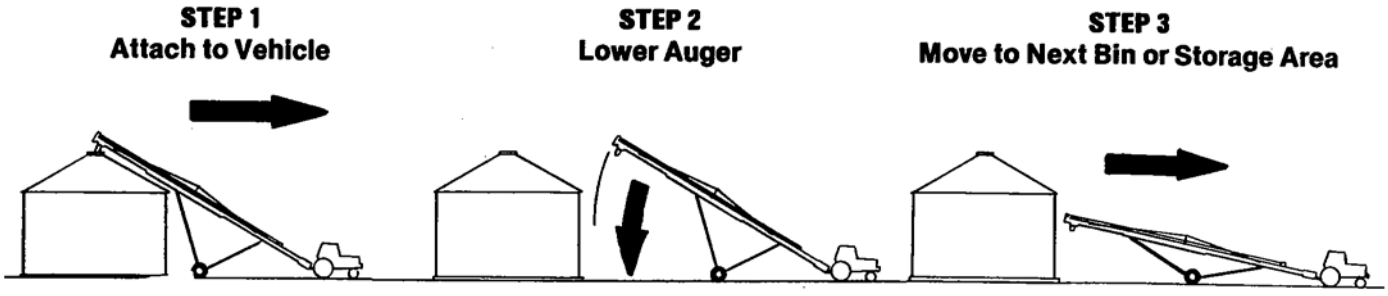
ELECTRIC DRIVE: A main power disconnect switch capable of being locked only in the off position shall be provided.

GASOLINE DRIVE:

1. For engines with rope or crank start - remove spark plug wire or spark plug.
2. For engines with electric start - remove ignition key, spark plug wire or spark plug.

Relocation of Auger

When grain conveying operation is completed, the auger should be moved away from the bin and lowered. The auger then can be moved to a different bin for more conveying operations or clean up and stored.



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Step 1

A. Empty all grain from the auger and clean up area.
B. Untie any anchors or remove all supports.
C. Disconnect the power source.
   Electric Drive - Unplug electric motor, wind up electric cables.
   PTO Drive - Disconnect Input Drive Line from tractor and place in support provided for transporting.
   NOTE: The bracket pin must be in place to hold the Input Drive Line in the support during transporting.
D. Raise the auger so the discharge spout is clear of bin opening. See Winch Instructions on page 8.
E. Remove hopper from auger intake and secure hitch in place with bolt and nut.
F. Lift the auger intake and hitch to the towing vehicle. (See Hitching Instructions on page 5.)
G. Move auger slowly away from the bin with towing vehicle -- **NOT BY HAND.**

Step 2

A. Lower auger immediately after clear of bin or storage structure. See Winch Instructions on page 8.
   IMPORTANT: Lower the auger, even if relocating to a bin in the immediate area.

Step 3

A. Move the auger to next bin or storage area. We recommend that the auger be stored in the full down position with intake end anchored.
B. Inspect the auger as outlined in the "Machine Inspection Section" on page 5.

TROUBLE SHOOTING

Low Capacity

The auger may not be getting enough grain. Check to see the intake has not bridged over restricting the flow.

The exposed flighting at the auger intake should be covered with grain to achieve maximum capacity.

Check auger speed. Refer to operator manual. Slow speed below recommended speed will result in low capacity.

Auger Plugs

The auger may be getting too much grain where it is "jamming" inside the housing. An optional control gate or 1/2 pitch may be necessary at the intake end.

On motor drive augers the motor may be too small or wired improperly. If the motor is a newer light-weight aluminum type, next larger size should be considered.

If wet grain or other hard to move material is being augered, use a larger size motor than recommended for normal use.

Is the auger free of any foreign material, such as sacks, tarp corners, etc.? A plug of the discharge end will cause an auger plug.

Check to see all belts and chains are lined up and tensioned properly.

Excessive Auger Noise

The head bearing may be loosened allowing the flighting to move toward the intake end. Noise then results when the flighting strikes the intake end bearing or perhaps an intermediate bearing.

Damage can occur to the auger flighting, thus causing noise. Damage usually occurs because of foreign material having been run through the auger. It may be necessary to remove the flighting for inspection.

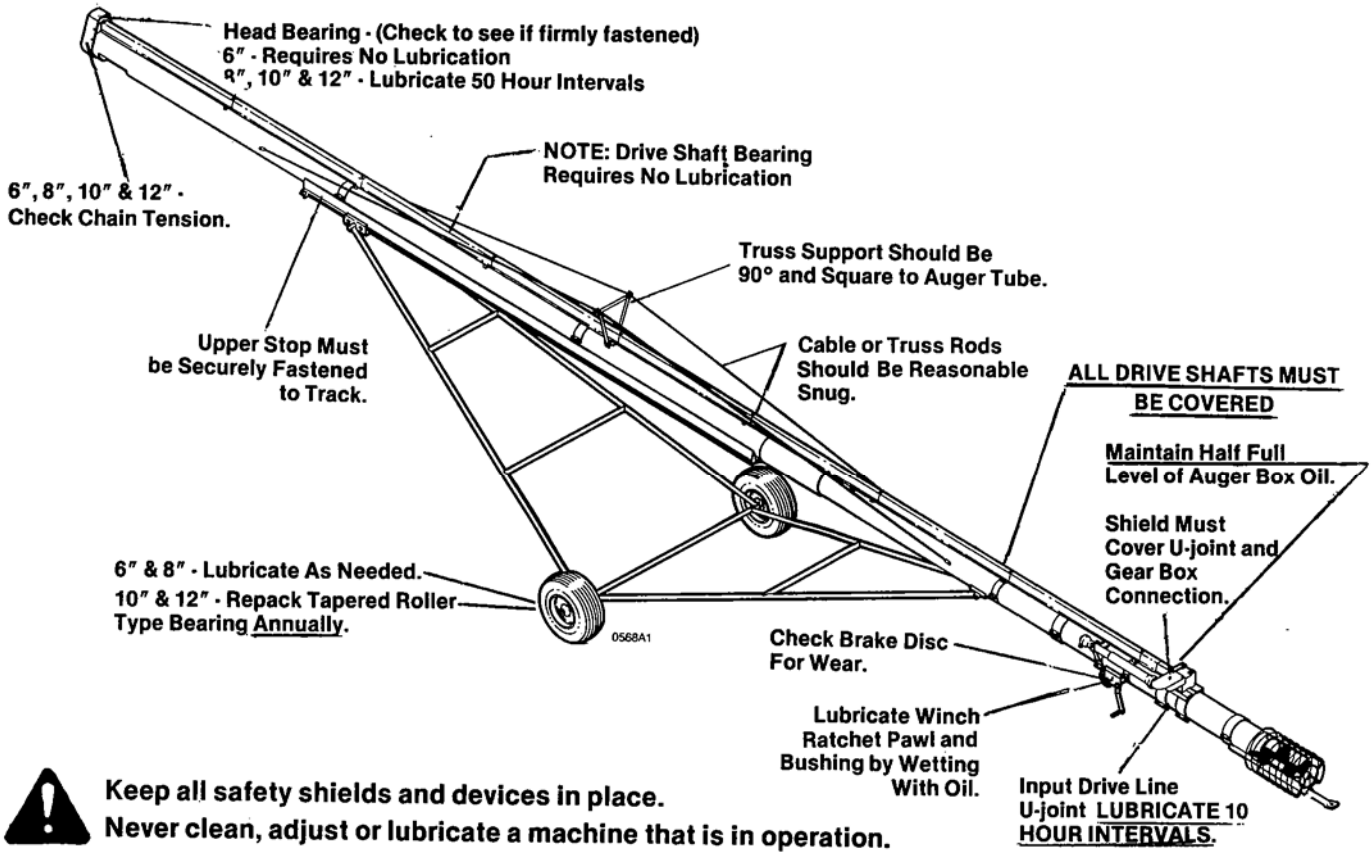
Important

An auger should be frequently checked and serviced to operate freely. Keep all guards and shields in place. Replace any that are damaged or lost. An auger should be run partially full for several hundred bushels to polish the flighting when it has not been used for an extended period of time. An auger with flighting that has not been polished in this manner requires greater horse power, and damage to the drive and/or flighting can result if overloaded.

Hutchinson augers are well made and we are proud of our line of equipment. We would like you, as our customer, to do your part in using caution and good judgement in using our equipment as well as any other machinery. Any parts for replacement should be replaced with parts of the same type and size. Do not modify or alter any of the auger components.

LUBRICATION & MAINTENANCE

For economical and efficient operation of your auger maintain regular and correct lubrication. Neglect leads to reduced efficiency, excessive wear, and needless down time.



Keep all safety shields and devices in place.
Never clean, adjust or lubricate a machine that is in operation.

The following will detail the part needing lubrication and the various conditions which determine the time span.

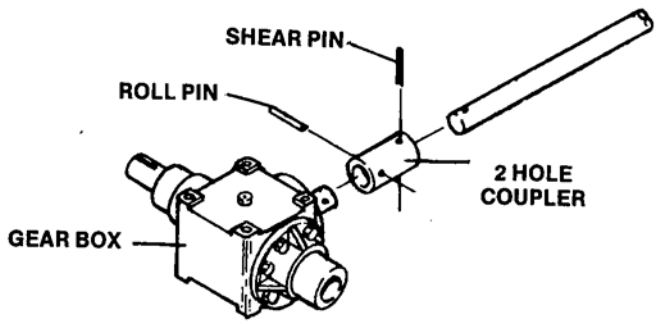
Gear Box and Shear Pin

At original assembly of auger, 90 E.P. (non-foaming) oil should be added to the gear box until half full. Check and maintain the level regularly.

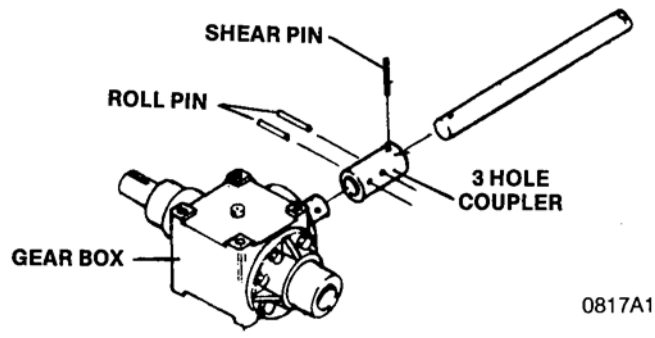
Hutchinson augers are provided with a shear pin located in the gear box to drive shaft coupler. This pin will break if the auger is subjected to high loads. Use the correct replacement pin as listed below.

SHEAR PIN SIZES

PART NO.	DESCRIPTION	USAGE
6363C	3/8" x 1-1/2" long (black)	6", 8" & 10" Century Augers
3001A1	7/16" x 1-3/4" long (black	12" Century Auger



Drawing For All 6" Century and 8" x 27' thru 57'



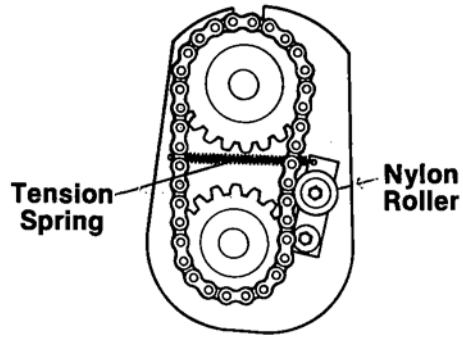
Drawing For 8" x 62'- 65' and All 10" & 12" Century

LUBRICATION & MAINTENANCE (CONT.)

Head Drive Chain

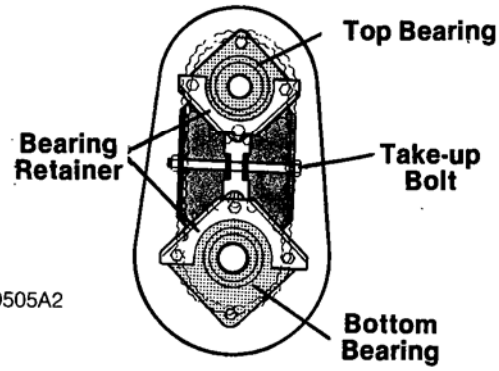
Every auger has a roller drive chain at the discharge end. This chain requires no lubrication, although it should be kept tight to reduce wear on chain and drive sprockets.

On 6" augers, a chain tightening device is equipped on the head plate, applying tension on the chain. The device is spring loaded and will not require further adjustment. If the nylon roller wears to the point where they are not providing tension, replace them. If the chain and sprockets are badly worn, they should be replaced for smoother operation.



END VIEW OF HEAD DRIVE

A special chain tightening device is provided on 8", 10" & 12" diameter augers. To tighten the chain remove the head cover or covers and loosen the bolts holding the bearings. Turn the take-up bolt to spread the bearings apart and tighten the chain. Be sure chain is snug. Do **not** over tighten.



Input Drive Line

Augers equipped with Input Drive Line shaft, should have U-joint lubricated at approximately ten (10) hour intervals with SAE multipurpose type grease.

Before engaging P.T.O. be sure that Input Drive Line shields turn freely on shaft.

Friction Type Winches

All 6", 8", 10" augers (except 10" x 81' auger) and 12" augers (except 71' & 81') have friction type winches which require the following lubrication:

1. All gears should have a film of grease on them at all times.
2. The following parts must be wet with oil at all times:
   - (A) Two bushings located at the ends of drum shaft.
   - (B) The ratchet pawl.
   - (C) Two bushings located at ends of pinion shaft.

IMPORTANT: Do not get oil or grease on brake disc faces (located between ratchet gear, brake hub and pinion shaft).

3. Check brake disc, if worn to less than 1/16 of an inch thick, replace both disc.

The auger should be in the lowered position with undercarriage lift arm slide against the upper head stop when this inspection is being performed. Refer to operating and maintenance instructions furnished with your winch for proper inspection methods.

Electric Type Winches

The winch is optional on all 6", 8" augers, 10" x 31' through 65' augers and 12" x 31' through 51' augers When lubricating the electric winch, follow the instructions and precautions listed in material supplied with the winch by the manufacturer.

Worm Gear Hydraulic Winches

At original assembly of auger, 90 E.P. (non-foaming) oil should be added to gear case until oil is up to the middle oil plug. Lubricate all other points of friction every ten hours or less with a good grade of medium weight oil.

LUBRICATION & MAINTENANCE (CONT'D)

Bearings

DRIVE SHAFT BEARING

All drive shafts are supported by self-aligning, sealed ball bearings, which have been packed at the factory and require no further lubrication. There is no adjustment to be made to the bearings, but to check that the retainers are firmly fastened to the bearing stand. Also check that the setscrews in the lock collars are tight against the drive shaft, securing the lock collars to the drive shaft.

HEAD BEARING

All 6" head bearings at the discharge end are supported by self-aligning, sealed ball bearings, which have been packed at the factory and require no further lubrication. There is no adjustment to be made to the bearings, but to check that the bearing retainers are firmly fastened to the head plate. Also check that the setscrews in the lock collars are tight against the drive shaft.

All 8", 10" and 12" head bearings at the discharge end are supported by self-aligning, sealed ball bearings which have been packed at the factory, but operator should lubricate at approximately fifty (50) hour intervals. Lubricate lightly with SAE multipurpose type grease. There is no adjustment to be made to the bearings, but check that bearings are firmly fastened to the head plate. Also check that the setscrews in the lock collars are tight against the drive shaft, securing the lock collars to the drive shaft.

The head bearings used on the 6", 8", 10" and 12" augers use an eccentric type lock collar. To tighten this type of lock collar, first slide it against cam end of the inner ring of the bearings. Engage cams by rotating collar until it slides over cammed end of inner ring. Lock collar by tapping lightly in direction of shaft rotation. Tighten setscrew.

INTAKE GUARD BRONZE BEARING

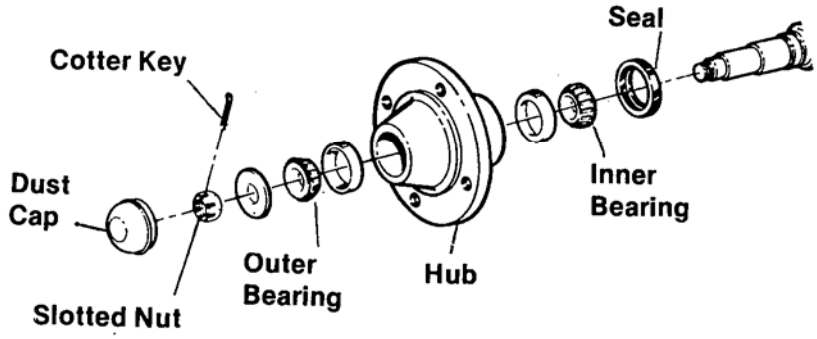
Every auger has a bronze-with-graphite bearing at the intake end. This bearing requires no lubrication.

UNDERCARRIAGE AXLE SPINDLE BEARING

Roller type bearings are standard on all 6" and 8" augers and should be lubricated as needed, determined by usage, with SAE multipurpose type grease. Grease zerks are located in wheel hubs.

Tapered roller type bearings are standard on all 10" and 12" augers and should be repacked with grease and adjusted annually or as needed, determined by usage.

Optional tapered roller type bearings for 6" and 8" augers should be repacked with grease and adjusted annually or as needed, determined by usage.



Care must be used in dismantling wheel bearings assembly. First remove the dust cap by prying around the edges of it. Remove the cotter pin, slotted nut and flat washer. Carefully remove the hub and bearings from the spindle. Inspect all parts for wear or damage and replace with new one if necessary.

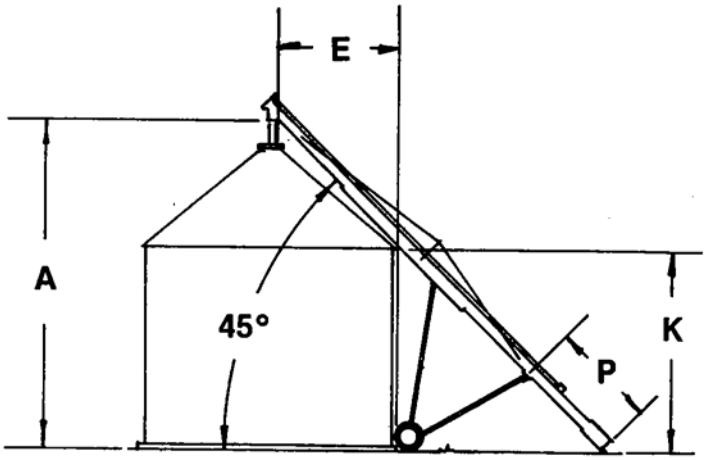
When reassembling the hub, repack both bearing cones with grease and fill the hub cavity 1/3 full. Place inner bearing assemblies into the hub, and then press grease seal into hub and carefully reinstall the hub on the spindle. When placing hub on spindle be careful not to damage the lip of the grease seal. Install outer bearing assembly into the hub, and place flat washer and slotted nut. Then tighten the slotted nut to seal the bearings until the hub binds as you rotate hub. Back off the slotted nut to the next slot and place a new cotter pin in. Use a 5/32" cotter pin 1-1/4" long. Replace dust cap.

LUBRICATION AND MAINTENANCE (CONT'D)

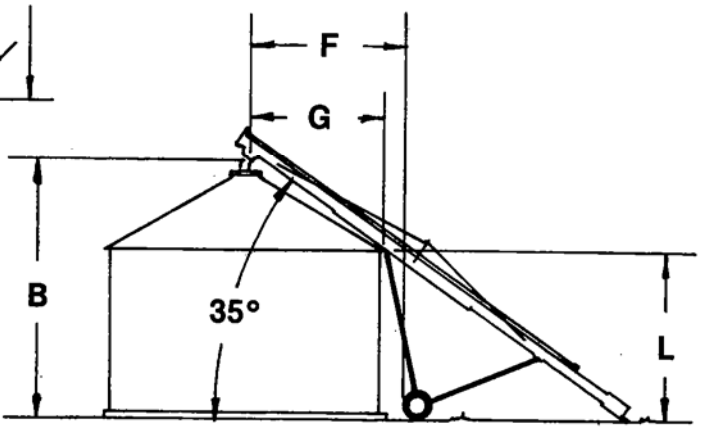
Maintenance Record

PART	SUGGESTED MAINTENANCE	MAINTENANCE INTERVALS	RECORD DATE OF MAINTENANCE PERFORMED								
Gear Box	Check Oil Level	Annually									
Head Drive Chain	Check Chain Tension	Annually									
PTO U-joints	Lubricate	10 hours									
8", 10" & 12" Century Bearing - Head	Lubricate	50 hours									
Axle Spindle Bearing	Re-pack	Annually									
Hydraulic Winch	Check Oil Lubricate	10 hours									
Friction Type Winch	Lubricate	Annually									
Other											

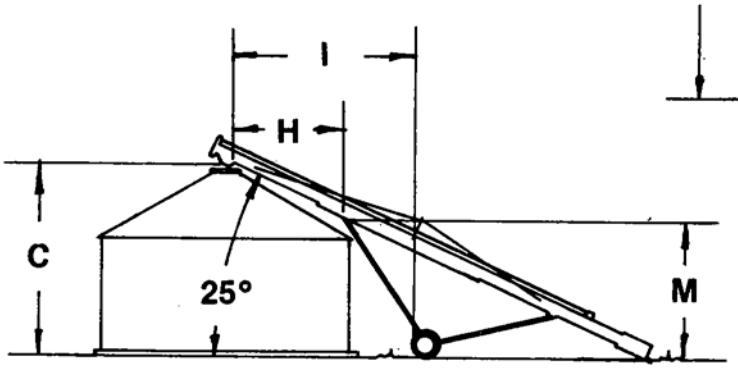
OPERATING HEIGHTS AND GENERAL DIMENSIONS



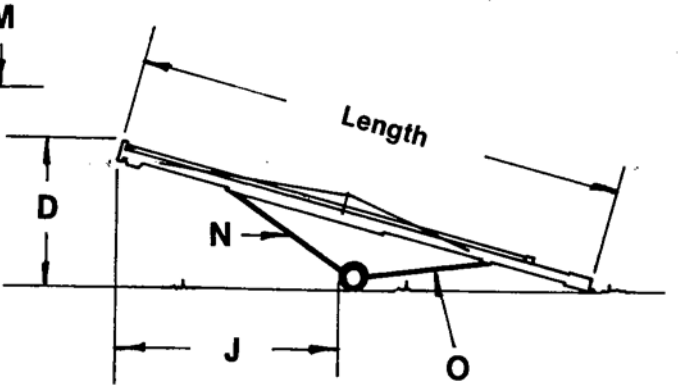
Auger Raised to 45°



Auger Raised to 35°



Auger Raised to 25°



Auger Lowered to Transport Position.

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Hutchinson Century Augers will reach as far or farther than competitive units. As noted in the above drawing, the front legs are in the vertical position when the auger is raised. This angle at maximum is 45° which is the highest practical angle for a transport auger. The reach of an auger is governed by the length of the tube and not the means of supporting it. The **Century Auger** offers you the advantage of both a truss (on all models above 33') and the box track under the tube. The Combination of Both of these features combine to make it the Auger that is "Complimented by Comparison."

OPERATING HEIGHTS AND GENERAL DIMENSIONS

AUGER DIAMETER	AUGER LENGTH	A DISCHARGE HEIGHT AT 45°	B DISCHARGE Height at 35°	C DISCHARGE HEIGHT AT 25°	D OVERALL HEIGHT DURING TRANSPORT *	E CLOSEST POINT TO BIN AT 45°	F CLOSEST POINT TO BIN AT 35° (ground level)	G CLOSEST POINT TO BIN AT 35° (eave level)	H CLOSEST POINT TO BIN AT 25° (eave level)	I CLOSEST POINT TO BIN AT 25° (ground level)	J CLOSEST POINT TO BIN AT TRANSPORT POSITION	K FREE CLEARANCE ABOVE WHEELS AT 45°	L FREE CLEARANCE ABOVE WHEELS AT 35°	M FREE CLEARANCE ABOVE WHEELS AT 25°	N LENGTH OF UPPER UNDERCARRIAGE ARM	O LENGTH OF LOWER UNDERCARRIAGE ARM	P DISTANCE FROM INTAKE TO UNDERCARRIAGE MOUNT
	27′	18′-6″	15′-0″	10′-11″	10′-3″	8′-1″	8′-9″	9′10″	7′-5″	9′-9″	10′-6″	11′-2″	9′-6″	8′-1″	8′-0″	7′-0″	8′-3″
	33′	22′-6″	18′-5″	13′-6″	11′-0″	9′-8″	12′-2″	10′-8″	8′-8″	8′-11″	12′-9″	14′-0″	12′-2″	9′-11″	10′-0″	8′-6″	9′-10″
	41′	26′-0″	23′-0″	16′-10″	11′-9″	13′-9″	10′-8″	16′-9″	8′-11″	16′-9″	18′-0″	14′-11″	13′-2″	11′-1″	11′-0″	10′-0″	11′-1″
6″	47′	32′-0″	26′-5″	19′-5″	12′-6″	14′-0″	16′-0″	17′-4″	13′-5″	18′-0″	20′-0″	19′-0″	15′-11″	13′-8″	14′-0″	12′-9″	12′-8″
	53′	34′-0″	29′-10″	21′-10″	13′-3″	18′-0″	19′-4″	20′-3″	16′-1″	16′-0″	22′-6″	18′-4″	17′-0″	15′-0″	15′-3″	12′-11″	15′-8″
	57′	37′-0″	32′-1″	23′-6″	16′-9″	18′-2″	19′-7″	19′-0″	15′-1″	22′-0″	23′-8″	21′-7″	19′-0″	17′-0″	18′-0″	15′-5″	15′-8″
	62′	42′-0″	35′-0″	25′-7″	16′-10″	17′-3″	20′-8″	21′-0″	15′-8″	23′-0″	25′-0″	26′-2″	21′-5″	19′-0″	20′-0″	17′-2″	17′-6″
	27′	18′-6″	15′-0″	10′-11″	11′-7″	7′-4″	8′-5″	9′-7″	7″-0″	9′-4″	9′-6″	12′-0″	9′-9″	8′-3″	8′-0″	7′-0″	8′-6″
	33′	22′-6″	18′-4″	13′-5″	11′-9″	9′-8″	12′-2″	10′-8″	8′-8″	8′-11″	12′-6″	13′-3″	11′-5″	10′-0″	10′-0″	8′-6″	10′-0″
	41′	26′-0″	23′-0″	16′-10″	12′-0″	13′-9″	15′-0″	16′-9″	13′-5″	16′-9″	17′-8″	15′-0″	13′-2″	11′-2″	11′-0″	10′-0″	11′-6″
	47′	32′-0″	26′-5″	19′-5″	13′-2″	15′-5″	15′-10″	17′-4″	13′-3″	18′-0″	19′-2″	18′-5″	16′-0″	13′-9″	14′-0″	12′-9″	13′-1″
8″	53′	34′-0″	29′-10″	21′-10″	13′-5″	17′-9″	17′-11″	20′-3″	15′-6″	20′-0″	21′-6″	18′-7″	17′-11″	15′-1″	15′-3″	14′-2″	15′-3″
	57′	36′-6″	32′-1″	23′-6″	12′-0″	18′-6″	17′-7″	19′-0″	15′-1″	22′-0″	24′-0″	21′-2″	19′-0″	17′-0″	18′-0″	15′-6″	15′-6″
	62′	41′-0″	35′-0″	25′-8″	13′-3″	18′-9″	20′-11″	21′-0″	16′-0″	21′-0″	26′-6″	25′-0″	21′-0″	18′-10″	20′-0″	17′-2″	16′-9″
	65′	43′-0″	36′-10″	26′-11″	14′-6″	20′-0″	22′-7″	23′-6″	17′-9″	25′-0″	27′-0″	24′-0″	21′-7″	19′-2″	20′-0″	17′-2″	19′-0″
	71′	49′-0″	40′-2″	29′-5″	17′-9″	21′-9″	24′-1″	24′-2″	18′-2″	27′-3″	29′-6″	28′-11″	24′-0″	21′-8″	23′-0″	18′-9″	20′-11″
	31′	19′-6″	17′-4″	12′-8″	11′-0″	11′-11″	11′-0″	11′-5″	8′-9″	11′-5″	10′-10″	11′-0″	10′-3″	9′-1″	9′-0″	7′-0″	10′-6″
	41′	26′-0″	23′-0″	16′-10″	12′-2″	14′-0″	14′-11″	16′-8″	13′-4″	16′-9″	17′-7″	15′-0″	13′-3″	11′-2″	11′-0″	10′-0″	11′-8″
	51′	34′-0″	28′-9″	21′-1″	14′-4″	15′-3″	16′-9″	19′-0″	13′-2″	17′-8″	20′-6″	20′-6″	17′-7″	15′-5″	16′-0″	14′-2″	14′-2″
10″	57′	37′-0″	32′-2″	23′-6″	14′-2″	19′-9″	20′-7″	21′-2″	16′-5″	22′ 3″	23′-10″	20′-3″	18′-5″	16′-6″	17′-0″	14′-2″	17′-2″
	61′	41′-6″	34′-6″	25′-2″	15′-0″	18′-0″	20′-4″	20′-3″	15′-3″	23′-3″	25′-6″	25′-4″	21′-0″	18′-9″	20′-0″	17′-0″	16′-6″
	65′	43′-0″	36′-10″	26′-11″	15′-2″	21′-3″	22′-9″	22′-6″	17′-11″	24′-10″	26′-8″	24′-0″	21′-6″	19′-2″	20′-0″	17′-0″	19′-2″
	71′	49′-0″	40′-3″	29′-6″	17′-9″	22′-0″	25′-0″	24′-5″	18′-3″	27′-3″	29′-3″	28′-7″	23′-10″	21′-7″	23′-0″	18′-9″	21′-2″
	81′	57′-0″	46′-0″	33′-8″	18′-0″	24′-4″	28′-2″	26′-10″	20′-0″	31′-0″	33′-10″	33′-6″	27′-10″	25′-0″	27′-0″	22′-0″	23′-3″
	31′	19′-6″	17′-4″	12′-8″	11′-4″	10′-9″	10′-9″	11′3″	8′-6″	11′-2″	11′-5″	10′-11″	10′-3″	9′-2″	9′-0″	7′-0″	10′-11″
	41′	26′-0″	23′-0″	16′-10″	13′-0″	13′-1″	14′-6″	11′-11″	13′-1″	16′-0″	17′-0″	15′-2″	13′-4″	11′-2″	11′-0″	10′-0″	12′-0″
	51′	34′-0″	29′-0″	21′-1″	14′-5″	15′-0″	16′-7″	17′-9″	13′-1″	18′-7″	20′-0″	20′-6″	17′-9″	15′-6″	16′-0″	14′-2″	14′-7″
12″	61′	41′-6″	34′-6″	25′-2″	15′-2″	17′-9″	20′-5″	20′-3″	15′-0″	23′-0″	25′-0″	25′-6″	20′-9″	18′-9″	20′-0″	17′-0″	16′-11″
	65′	43′-0″	37′-0″	27′-0″	15′-3″	21′-6″	22′-6″	22′-2″	17′-7″	24′-8″	26′-6″	24′-0″	21′-7″	19′-3″	20′-0″	17′-0″	19′-6″
	71′	49′-0″	40′-4″	29′-7″	17′-9″	22′-0″	24′-7″	24′-3″	18′-0″	26′-11″	28′-10″	28′-4″	23′-11″	21′-8″	23′-0″	18′-9″	21′-5″
	81′	57′-0″	46′-0″	33′-9″	18′-0″	24′-3″	27′-11″	26′-8″	19′-10″	30′-10″	33′-5″	33′-4″	27′-11″	25′-0″	27′-0″	22′-0″	23′-7″
	101′	70′-0″	57′-0″	42′-0″	22′-10″	28′-0″	34′-0″	35′-0″	27′-0″	38′-6″	42′-0″	43′-0″	33′-9″	29′-6″	31′-4″	29′-4″	25′-2″

*Transport height will be slightly lower when attached to drawbar of towing vehicle.

ACCESSORIES

Spouts

Different type spouts allow the operator to guide the discharge grain into the proper direction for their use. Flex tube can extend the reach of the auger and bucket spout can be used for more rugged applications. Safety spouts are great low cost protection to avoid damage to the auger in the event of plugging caused from a full bin or too small a grain spreader.

90° SPOUT, TOP SECTION

H1607A - 6″ Century
H1807A - 8″ Century
H2007A - 10″ Century
H2207A - 12″ Century

45° SPOUT, TOP SECTION

H1614A - 6″ Century
H1814A - 8″ Century
H2014A - 10″ Century
H2214A - 12″ Century

3′ FLEX TUBE and SPOUT - 90°

A6211A - 6″ Century
A8211A - 8″ Century
A1011A - 10″ Century
A2208A - 12″ Century

3′ FLEX TUBE and SPOUT - 45°

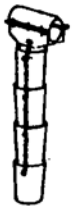
A6244A - 6″ Century
A8244A - 8″ Century
A1044A - 10″ Century
A2248A - 12″ Century

5′ FLEX TUBE and SPOUT - 90°

A6212A - 6″ Century
A8212A - 8″ Century
A1012A - 10″ Century
A2209A - 12″ Century

3′ FLEX TUBE and SAFETY SPOUT - 45°

A6213A - 6″ Century
A8213A - 8″ Century
A1013A - 10″ Century
A2213A - 12″ Century



3′ BUCKET SPOUT - 90″

A6214A - 6″ Century
A8214A - 8″ Century
A1014A - 10″ Century
A2220A - 12″ Century

3′ BUCKET SPOUT and SAFETY SPOUT - 45°

A6267A - 6″ Century
A8267A - 8″ Century
A2067A - 10″ Century
A2267A - 12″ Century

5′ BUCKET SPOUT and SAFETY SPOUT - 45°

A6268A - 6″ Century
A8268A - 8″ Century
A2068A - 10″ Century
A2268A - 12″ Century

BUCKET SPOUT (Per Foot)

A1654A - 6″ Century
A1854A - 8″ Century
A2054A - 10″ Century
A2254A - 12″ Century

FLEX TUBE (Per Foot)

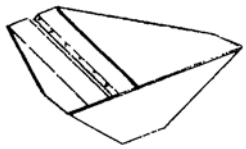
N1649A - 6″ Century
N1849A - 8″ Century
N2049A - 10″ Century
N2249A - 12″ Century

ACCESSORIES

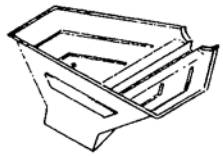
The accessories below are designed for use on your 6", 8", 10" and 12" Hutchinson Grain Auger for easier operation. Contact your local dealer to obtain these items.

Hoppers

Feeding the augers is easier with a strap-on hopper made of either galvanized metal or flexible plastic. Both type hoppers are designed to be used with intake hoppers installed. Plastic hoppers are flexible in case a truck bed is accidentally lowered on them or a vehicle is backed into or over them.



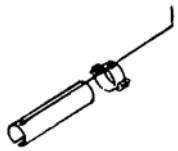
A6204A 6" & 8" Century Metal Hopper
A6208A 10" & 12" Century Metal Hopper



A6206A 6" & 8" Century Plastic Hopper

Control Gate

Controls amount of grain that can be fed into the auger. Remember to limit the amount of grain fed at one time when first using new augers, so auger flight can become polished for better performance.
Consider using 1/2 pitch intake flight on a wet grain situation from a pit or wet holding tank.



H1611A - Intake Control Gate - 6" Century
H1811A - Intake Control Gate - 8" Century
H2011A - Intake Control Gate - 10" Century
H2211A - Intake Control Gate - 12" Century

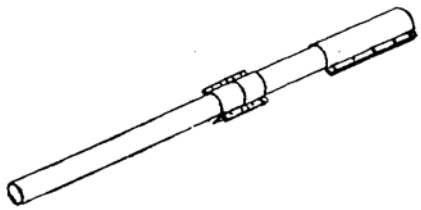
High Flotation Rim and Tire

D1253 15" x 8" Rim, 6-hole **(Order two per auger)**

A5001 High Flotation Tire and Tube

Cleaning Screens

Cleaning Screen removes unwanted fines and dirt from grain in most cases, but consider the Hutch Grain Cleaner for better results with high capability.



8' Cleaning Screen
(Includes winch mount and connecting band)

3/16" Perforation - 8' Long
A6220A - 6" Century
A8220A - 8" Century
A1020A - 10" Century

1/8" Perforation - 8' Long
A6221A - 6" Century
A8221A - 8" Century

ACCESSORIES

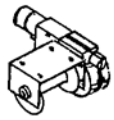
Winches

Raise and lower your auger easier with a power winch. Optional winches will fasten directly to present winch mounts.

HYDRAULIC WINCH

A6217A - 6″ Century
A6217A - 8″ Century
A6217A - 10″ Century (31′ - 57′)

HYDRAULIC WINCH



A6245A - 10″ Century 61′ - 71′ Augers (Std. on 81′ Augers)
A6245A - 12″ Century 31′ - 65′ Augers (Std. on 71′ - 81′ Augers)

ELECTRIC WINCH - 12 Volt Kit

A6219A - 6″ Century
A6219A - 8″ Century
A6219A - 10″ Century 31′ - 65′ Augers
A6219A - 12″ Century 31′ - 51′ Augers

Century Drive Shaft Shear Device

The optional Drive Shaft Shear Device is installed between the gear box and drive shaft. It provides a positive protection for drive line components due to overload or plugging. The Shear Device is shipped complete with mounting bolts; shear device shield and extra shear bolts. These Kits are available for current models as well as older units.

A6257A - Shear Device Kit for 6″ Units
A8257A - Shear Device Kit for 8″ x 27′ - 57′ Units
A8258A - Shear Device Kit for 8″ x 62′ - 71′ Units
A2057A - Shear Device Kit for 10″ Units
A2257A - Shear Device Kit for 12″ Units (Except 101′ Unit)
A6281A - 4 - Grade 2 Shear Bolts for 6″ Units
A8281A - 8 - Grade 2 Shear Bolts for 8″ & 10″ Units
A2281A - 8 - Grade 5 Shear Bolts for 12″ Units

IMPORTANT: Order Above Replacement Shear Bolts for Designed Protection.

Drive Shaft Shock Absorber Device

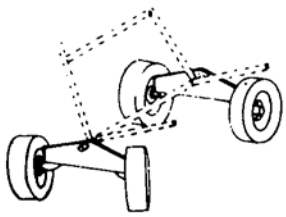
This Kit for 6″ and 8″ Augers provides a shock absorbing unit to protect drive line components during Start-Stop operations. This unit uses rubber discs mounted ahead of the gear box to absorb start-up torque. These Kits are available for current models as well as older units.

A6270A - 6″ Shock Absorber Kit
A8270A - 8″ Shock Absorber Kit (27′ - 57′)
A8271A - 8″ Shock Absorber Kit (62′ - 71′)
A6237A - Rubber Disc Replacement Kit

ACCESSORIES

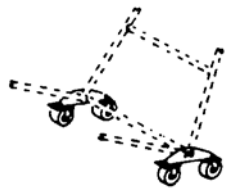
Swivel Arc

Wheel Kits provide a means for pivoting your auger in an arc for circular bin arrangement. Note steel castor kits should be used on concrete surfaces only.



Swivel Arc Kits with 15″ Wheels (Less Tires)

A6231A - 6″ Century (27′ - 62′)
A6231A - 8″ Century (27′ - 53′)
A8231A - 8″ Century (57′ - 65′)
A8233A - 8″ Century (71′)
A1031A - 10″ Century (31′ - 51′)
A1033A - 10″ Century (57′ - 81′)
A1031A - 12″ Century (31′)
A1033A - 12″ Century (41′ - 81′)



Steel Caster Arc Kit

A6235A - 6″ Century
A6235A - 8″ Century
A1035A - 10″ Century
A1249A - 12″ Century Heavy Duty

Swivel Arc Kits with High Flotation Rims

A1034A - 10″ Century (71′ & 81′)
A1034A - 12″ Century (71′ & 81′)

AGI HUTCHINSON MAYRATH

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