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 on 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 receipt. 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 UNLESS/EXCEPT IS IN LIEU OF ALL OTHER WARRANTIES, EXRESSED 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 (power & wiring included).
3) Unauthorized alterations 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, non-abrasive 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.
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.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Safety Statements</td>
<td>1</td>
</tr>
<tr>
<td>Safety Symbol</td>
<td>1</td>
</tr>
<tr>
<td>Operator Qualification</td>
<td>3</td>
</tr>
<tr>
<td>Sign Off Sheet</td>
<td>3</td>
</tr>
<tr>
<td>Machine Inspection</td>
<td>3</td>
</tr>
<tr>
<td>TRANSPORTING AUGER</td>
<td>4-5</td>
</tr>
<tr>
<td>Hitching to Towing Vehicle</td>
<td>4</td>
</tr>
<tr>
<td>Alternate Hitch Safety Chain Installation</td>
<td>4</td>
</tr>
<tr>
<td>Moving Auger</td>
<td>4-5</td>
</tr>
<tr>
<td>PLACEMENT OF AUGER</td>
<td>5-6</td>
</tr>
<tr>
<td>Step 1 - Locate the Auger</td>
<td>5</td>
</tr>
<tr>
<td>Step 2 - Releting and Auger</td>
<td>5</td>
</tr>
<tr>
<td>Step 3 - Back into Working Position</td>
<td>6</td>
</tr>
<tr>
<td>WINCH INSTRUCTIONS</td>
<td>6</td>
</tr>
<tr>
<td>DESIGNATED WORK AREA</td>
<td>7</td>
</tr>
<tr>
<td>Rules for Safe Work Area</td>
<td>7</td>
</tr>
<tr>
<td>Work Area Diagram</td>
<td>7</td>
</tr>
<tr>
<td>OPERATING PROCEDURES</td>
<td>8-13</td>
</tr>
<tr>
<td>Start Up &amp; Break In</td>
<td>8</td>
</tr>
<tr>
<td>Top Mounted Electric Motor Drive</td>
<td>8</td>
</tr>
<tr>
<td>Operating Capacities</td>
<td>9</td>
</tr>
<tr>
<td>Shut Down</td>
<td>9</td>
</tr>
<tr>
<td>Lockout</td>
<td>9</td>
</tr>
<tr>
<td>Relocation of Auger</td>
<td>9-10</td>
</tr>
<tr>
<td>TROUBLE SHOOTING</td>
<td>10</td>
</tr>
<tr>
<td>LUBRICATION AND MAINTENANCE</td>
<td>11-12</td>
</tr>
<tr>
<td>Enclosed Drive</td>
<td>11</td>
</tr>
<tr>
<td>Friction Type Winch</td>
<td>11</td>
</tr>
<tr>
<td>Belt Adjustment</td>
<td>11</td>
</tr>
<tr>
<td>Bearings</td>
<td>11-12</td>
</tr>
<tr>
<td>ASSEMBLY INSTRUCTIONS</td>
<td>14-21</td>
</tr>
<tr>
<td>PARTS LIST</td>
<td>P1-P8</td>
</tr>
</tbody>
</table>

## SERIAL NUMBER

To ensure efficient and prompt service, please furnish us with the model and serial number of your auger in all correspondence or other contact. The serial plate is located on the winch mount on the auger housing.

## 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.
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, they 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 7.
4. A person who has not read and understood all operating and safety instruction is not qualified to operate the machine.

*Federal Occupational Safety & Health Standards for Agriculture Subpart D, Section 1928.57 (1)(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.

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<thead>
<tr>
<th>DATE</th>
<th>EMPLOYER SIGNATURE</th>
<th>EMPLOYEE SIGNATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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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.
2. Check all safety signs and replace any that are worn, missing or illegible. The safety signs are listed on page P-1 thru P-3. Safety signs may be obtained from your 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 properly adjusted? (See Maintenance Section.)
6. Check oil level in enclosed drive unit. (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 secured to the auger and towing vehicle. Check to see that the hitch is securely attached.

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

"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 machines 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. Then route the chain through the chain support on the hitch pipe.

A clevis or intermediate chain support should be fastened to the tractor drawbar no farther than 6" from the hitch pin.

Z. MOVING AUGER

Moving your portable auger requires careful planning. A route plan should be considered beforehand 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.

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.

002765A1  01860A1  WHEN MOVING AUGER: HAZARD AREA - KEEP OUT  02709A1  A0002897
TRANSPORTING AUGERS - CONT.

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 4 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.

PLACEMENT OF AUGER - FILLING GRAIN BIN

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

STEP 1
Locate auger next to bin.

STEP 2
Raise auger.

STEP 3
Back into position.

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 sit on a slope, approach the bin up hill. 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.

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-up on one side of the drum.

Keep hands away from winch drum during operation.
PLACEMENT OF AUGER - FILLING GRAIN BIN (cont.)

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.
LOWER 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 from hitch and fully retract hitch pipe. If a hopper is to be used, install at this time. Lower the auger until the auger discharge is directly over bin opening.

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.)

The auger should be anchored at the intake end and/or supported at the discharge end. This will prevent auger from upending 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 into a grain spreader, always maintain at least 12 inches of space between the auger discharge and the spreader.

WINCH INSTRUCTIONS
HAND WINCH OPERATION (FRICITION TYPE)
Check the handle assembly on your auger to determine that it has been assembled correctly. See assembly section. There should be a locknut attached to the end of the winch shaft to prevent inadvertent removal of the winch 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.

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 on other structures during lowering.
(E) Don’t continue to attempt to raise auger after slide reaches stop.

See the owner’s manual and parts list for the winch that is included with this manual for additional winch information.
DESIGNATED WORK AREA

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

⚠️ Walking Surface - Is it slippery? Are there things to trip you?

UNLOADING GRAIN BIN - TOP MOUNTED ELECTRIC DRIVE UNITS

.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 shutdown by the operator.

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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 conveyer 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 fitting 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 under load, especially before the flight and tube become well polished, as this may cause the auger to "freeze-up".

During the initial start-up and break-in period, the operator shall be aware of any unusual vibrations or noises that would indicate a need for service or repair.

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 designated work area 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 and the auger fighting is permitted to "load-up", high torque will be required to turn the auger fighting, and damage to the auger can result. Under these conditions, use an optional control gate to control the amount of grain fed into the auger.

TOP MOUNTED ELECTRIC MOTOR DRIVES:
Use motor that operates at 1750 RPM that is rated at either 7 1/2 or 10 HP.
Use 4.0" O.D.* pulley on motor and 6.2 P.D.** (6.5 O.D.*) pulley on drive shaft for auger operating speed of 540 RPM.

*O.D. = Outside diameter
**P.D. = Pitch diameter

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 overload 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 reasonably 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 motor is grounded.

CHECK THE FOLLOWING BEFORE ADDING POWER:
1. Check that belt guard is in place, secured and functional.

TO START AUGER
1. Start electric motor before conveying grain.

TO STOP AUGER
1. Let auger empty of grain before stopping.
2. Shut off electric motor and lockout.

A0012871
OPERATING PROCEDURES

OPERATING CAPACITIES
10" - 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 intake 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 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 stall out. Under the "extra" 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.

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

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 cleaned up and stored.

---

**STEP 1**
Attach to Vehicle
Move From Over Bin

**STEP 2**
Lower Auger

**STEP 3**
Move to Next Bin or Storage Area

---

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. Unplug electric motor, wind up electric cables.
D. Raise the auger so the discharge spout is clear of bin opening. See Auger Raising Instructions on page 5.
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 4.
G. Remove wheel chocks.
H. Move auger slowly away from the bin with towing vehicle—NOT BY HAND.

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OPERATING PROCEDURES

RELOCATION OF AUGER - CONT.

Step 2
A. Lower auger immediately after clear of bin or storage structure. See Winch Lowering Instructions on page 6.

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 3.

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 page 8. A 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 may be necessary at the intake end.

The motor may be too small or wired improperly.

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 if all belts are lined up and tensioned properly.

EXCESSIVE AUGER NOISE
Damage may have occurred 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 horsepower, and damage to the drive and/or flighting can result if overloaded.

Our 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 AND 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 parts needing lubrication and the various conditions which determine the time span.

ENCLOSED DRIVE LUBRICATION

The enclosed drive is located at the discharge end of the auger housing and is shipped without oil. Oil is to be added to the unit during field assembly of the auger. Oil will dissipate under normal operating conditions, therefore the oil level should be checked regularly. Add 90 E (non-foaming) oil until the level of the oil reaches the check port.

DO NOT ADD MORE OIL THAN RECOMMENDED. ADDITIONAL OIL MAY DAMAGE THE SEALS OR BE FORCED OUT THROUGH THE VENTED PLUG.

For lubrication in normal operating temperature between 40°F, use SAE 80 weight oil. Use grade commercially available for automotive differentials. Extra pressure additives may be of value in severe applications.

FRICTION TYPE WINCH

The following lubrication checks should be made to the winch periodically.

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.

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 ends of drum shaft.
   (B) The ratchet pawl pivot.

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, cracked or broken, replace both discs.

BELT ADJUSTMENT

On drives that are powered by belts, the belt tension will need periodic adjustment.

BEARINGS

Motor mount main bearing is a self-aligning, sealed ball bearing which has 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 bearing, but check that bearing is firmly fastened to the motor mount. Also check that the setscrews in the lock collar are tight against the drive shaft, securing the lock collar to the drive shaft.

The bearing uses 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.

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LUBRICATION AND MAINTENANCE (CONT'D)

BEARINGS - (CONT.)

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.

IMPORTANT: The complete drive shaft must be shielded with drive shaft covers during operation.

Intake Guard Bronze Bearing

Every auger has a bronze-with-graphite bearing at the intake end. This bearing requires no lubrication. If wire guard is damaged, replace the intake guard.

Undercarriage Axle Spindle Bearing

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

Tapered Roller Type Bearing Assembly

Care must be used in dismantling the tapered roller bearings. First remove the dust cap by prying around its edges. 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 ones 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 replace flat washer and slotted nut. 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 pin with a new cotter pin. Use a 5/32" cotter pin 1-1/4" long. Replace dust cap.
LAY OUT THE AUGER TUBE

Choose an area of open level ground accessible to chain hoist or other lifting devices where the auger housing section can be laid out full length.

31' MODEL

FIG. 1

30'-0'
SINGLE TUBE
CONSTRUCTION

UNDERCARRIAGE
MOUNT

SHIPPING
BRACKET

SHIPPING BRACKET
This is only for shipping purposes.

FIG. 2

SHIPPING BRACKET
DETAIL

ENCLOSED DRIVE LUBRICATION

The enclosed drive is located at the discharge end of the auger housing and is shipped without oil. Oil is to be added to the unit during field assembly of the auger. Oil will dissipate under normal operating conditions, therefore the oil level should be checked regularly. Add 4 pints of 90 EP (non-foaming) oil until the level of the oil reaches the check port.

DO NOT ADD MORE OIL THAN RECOMMENDED. ADDITIONAL OIL MAY DAMAGE THE SEALS OR BE FORCED OUT THROUGH THE VENTED PLUG.

For lubrication in normal operating temperature between 40°F to 120°F, we recommend the use of non-foaming, multi-purpose gear oil, SAE 90 weight. For temperatures below 40°F, use SAE 80 weight oil. Use grade commercially available for automotive differentials. Extra pressure additives may be of value in severe applications.
ASSEMBLY INSTRUCTIONS

INTAKE GUARD TO AUGER HOUSING

Install intake guard at intake end of auger housing. As you slide the assembly over the flight and the auger housing, guide the intake stub shaft through the bearing. Clamp the intake guard to the auger housing with the top upper half band above stop, welded to the auger housing. See Fig. 4. Use eight 3/8" x 1-1/4" long (grade 5) hex head capscrews and non-lock nuts to clamp intake guard in place.

Use one 1/2" x 4" long (grade 5) hex head cap screw, flat washer, lockwasher and non-lock nut to hold Hitch pipe in extended position for towing auger.

FIG. 4

NOTE: DO NOT slide intake guard on so far that the auger flight is in contact with the bearing. Leave at least 1/2" clearance between the flight and the bearing.

MOTOR MOUNT TO AUGER TUBE ASSEMBLY

(See Fig. 5 on page 15.)

Step 1. Assemble the four hole cast iron flange bearing to the front panel of the motor mount with four 7/16" x 1 1/4" long (grade 5) hex head capscrews and nylon lock nuts.

Step 2. Slide the 25' long motor mount shaft into the bearing mounted on the motor mount with the end that has the shorter key seat on the back side of the motor mount.

Step 3. Slide the flangette bearing over the shaft. Then, fasten the flangette bearing and drive shaft clip to the motor mount back panel with three 5/16" x 3/4" long (grade 5) hex head capscrews lockwashers and non-lock nuts. Position the end of the shaft so it is 2 3/4" from the back bearing lock collar and tighten the bearings setscrews. (See Detail A on page 15.)

Step 4. Install front bearing eccentric lock collar on the motor mount shaft and lock down. To tighten this type of lock collar, first slide it against cam end of the inner ring of the bearing. Engage cams by rotating collar until it slides over cammed end of bearing inner ring. Lock the collar in place by tapping lightly in direction of the shaft rotation. Tighten setscrews down.

Step 5. Install the 1/4" x 1 1/2" long square drive keys into the keyseat of the lower end of the auger drive shaft and the back end of the motor mount shaft.

2/09 03467A1 A0002877
ASSEMBLY INSTRUCTIONS
MOTOR MOUNT TO AUGER TUBE ASSEMBLY

Fasten flangette bearing and drive shaft coupler clip with three 6/16" x 3/4" long (grade 5) carriage bolts, lock washers and non-locknuts.

Use four 7/16" x 1 1/4" long (grade 5) cap screws and nylon locknuts.

Four hole cast iron flange bearing.

Use four 3/8" x 1 1/4" long (grade 5) hex head cap screws and non-lock nuts per each half band.

Step 6. Slide the drive shaft coupler all the way onto the back end of the motor mount shaft.

Step 7. Set the motor mount assembly onto the auger housing and slide the motor mount assembly and the drive shaft coupler onto the lower end of the drive shaft. Be sure the coupler is pushed all the way onto the drive shaft. Secure the motor mount to the auger housing with one plain half band, one half band with bracket for holding manual container, eight 3/8" x 1 1/4" long (grade 5) hex head cap screws and non-lock locknuts.

4/98
02762A3
02763A2
A0002678
ASSEMBLY INSTRUCTIONS

DRIVE SHAFT COVERS

The covers should be placed on the auger while it is lying on the ground before it is placed on the undercarriage. PLEASE REMEMBER THESE COVERS PROVIDE IMPORTANT PROTECTION FOR PERSONS AROUND AN AUGER THAT IS IN OPERATION. Proper installation is important.

Determine the location of the various lengths of drive shaft covers by placing them alongside the tube assembly in the order shown in Fig. 6. Begin at the intake end of the unit. Work up the unit, overlapping covers at each bearing stand.

![FIG. 6](image)

**TO INSTALL TWO-PIECE DRIVE SHAFT COVER**

There is a special two piece section of drive shaft cover that installs between the gearbox and the first bearing stand. It telescopes together to vary in length. This telescoping cover consists of a standard piece that telescopes into a special piece of cover with retaining bottom edges. Center the slots in the covers over the hole in the mounting bracket. Place 1” O.D. flat washer over the slot in the cover and drive the self tapping slotted hex head screw through the hole in the mounting bracket. Tighten the metal screw down to the flat washer and cover. **DO NOT** over tighten and strip out the hole in the mounting bracket. See Fig. 7.

**CAUTION:** THE TWO PIECE TELESCOPING COVER SHOULD OVERLAP AT LEAST 6” FOR PROPER INSTALLATION.

**TO INSTALL ONE-PIECE DRIVE SHAFT COVER**

Center the slots in the covers over the hole in the mounting bracket. Place 1” O.D. flat washer over the slot in the cover, and drive the self tapping slotted hex head screw through the hole in the mounting bracket. Tighten the metal screw down to the flat washer and metal cover. **DO NOT** over tighten and strip out the hole in the mounting bracket. See Fig. 7.

![FIG. 7](image)
ASSEMBLY INSTRUCTIONS

HUB AND SPINDLE TO UNDERCARRIAGE ASSEMBLY

The hubs, bearings, seals and spindles are assembled at the factory and are pressure packed with grease at that time.

Slide the hub and spindle assembly into the undercarrriage axle and secure with 1/2" x 3" (grade 5) hex head capscrew and nylon locknut. See Fig 8.

UNDERCARRIAGE SLIDE TO TRACK ASSEMBLY

Lift the auger assembly a few feet by lifting at a point near the center of the auger with a chain hoist or other safe, suitable means. DO NOT lift the entire weight of the auger from the extreme end. DO NOT use drive shaft to lift auger. Use a sling completely around auger housing assembly for lifting. Install the undercarrriage slide onto the track from the discharge end. Be sure the undercarrriage is installed on the track in a manner whereby it cannot be removed from the track after the stop has been installed. See Fig. 9.

UNDERCARRIAGE STOP TO TRACK ASSEMBLY

A stop must be bolted on the discharge end of the undercarrriage track. Use two 1/2" x 1 1/2" long (grade 5) hex head capscrews, lock washers and non-lock nuts to secure the stop to the track angle.

Fig. 10
ASSEMBLY INSTRUCTIONS
UNDERCARRIAGE TO AUGER HOUSING MOUNT ASSEMBLY

Lift the auger tube assembly high enough to attach the lower arm of undercarrige to auger housing mount. Keep undercarrige slide against the upper undercarrige stop by securing temporarily with chain. Bolt the lower arm of the undercarrige to mount welded on lower auger housing, using four 1/2" x 1 1/4" long (grade 5) hex head capscrews and nylon locknuts. See Fig. 11.

FIG. 11

WINCH HANDLE TO WINCH BODY ASSEMBLY

Align slot of handle with flat portion of winch pinion shaft. Use hex nut to hold handle in place and tighten securely. For Fig. 12. For additional winch information, follow the instructions and precautions listed in the material supplied with the winch from the manufacturer.

FIG. 12

LIFT CABLE TO WINCH DRUM ASSEMBLY

Attach 1/4" lift cable to winch drum so cable will wrap under winch drum when turning handle in a clockwise direction. From inside of drum, insert the cable through one round hole in the drum side, until it extends 1" past the two square holes. Next clamp the cable to the outside of the drum with the cable keeper, using two 3/16" x 3/4" carriage bolts, lock washers and non-lock nuts. Be sure that the carriage bolt heads are on the inside of the drum. See Fig. 13.

Warning: Never fully extend the cable and always keep three complete turns of cable around winch drum.

FIG. 13
ASSEMBLY INSTRUCTIONS

WINCH TO WINCH MOUNT ON AUGER HOUSING ASSEMBLY

Bolt winch assembly to mount so the winch drum is towards the auger discharge. Use three 3/8" x 1" long (grade 5) flat washers, lock washers and non-lock nuts to attach winch to mount. See Fig. 14.

LIFT CABLE RIGGING

Step 1. Rig the lift cable from the winch around the cable pulley, then down to the cable anchor at the intake end of the undercarriage track. See Fig. 15.

Step 2. Secure the lift cable to cable anchor with two 1/4" cable clamps. See Fig. 16.

ELECTRIC DRIVE ASSEMBLY

(See Fig. 17 on page 20.)

Step 1. Spin a 3/4" hex nut on each of the threaded rods portion of the strap and rod weldments. Insert the threaded rod through holes in the motor mount and install the other 3/4" hex nuts to hold the threaded rods in place. Leave finger tight for now, they will be tightened when belt tension is set after Step 8.

Step 2. Place the motor mount tubes into the recess portion of the strap and rods weldments and secure with top straps and six 3/8" x 1 1/2" long (grade 5) hex head cap screws, flat washers and non-lock nuts.

Step 3. Position the motor mount strap and clips onto the motor mount tubes, secure in place with four 3/8" x 3" long carriage bolts and non-lock nuts. Leave finger tight for now, they will be tightened after motor is installed and positioned in place.

(Cont. on page 21.)
ASSEMBLY INSTRUCTIONS
ELECTRIC DRIVE ASSEMBLY (CONT.)

Use four 3/8" x 3" long (grade 5) carriage bolts and non-lock nuts to secure the motor mount straps and clips to motor mount tube.

Use six 3/8" x 1 1/2" long (grade 5), hex head capscrews flat washers and non-lock nuts to hold top strap to the strap and rod weldment.

Fasten belt guard to motor mount front panel with four 5/16" x 1" long (grade 5), hex head capscrews, flat washers and nylon locknuts.

FIG. 17
ASSEMBLY INSTRUCTIONS

ELECTRIC DRIVE (CONT.)

Step 4. Fasten belt guard to front of motor mount with four 5/16" x 1" long (grade 5) hex head capscrews, eight flat washers and four nylon locknuts.

Step 5. Install the 3B 6.2 P.D. (pitch diameter) sheave or 6.5" O.D. (outside dia.) to motor mount shaft using the tapered lock bushing kit and drive key.

Step 6. Install 4.0" O.D. (outside dia.) sheave onto the motor shaft, then mount the motor to the motor mount straps. NOTE: The motor sheave or the motor mounting hardware are NOT furnished.

Step 7. Install belts and align sheaves by placing a straight edge across the front faces of the sheaves. Tighten the hardware holding the motor to the motor mount straps.

Step 8. Tighten belt by using the 3/4" hex nuts that ever installed to the threaded rods in step 1. Be sure to tighten so the motor is level and the motor shaft parallel with the motor mount shaft.

OPERATOR'S MANUAL CONTAINER

A plastic container with removable caps is provided to store a copy of the operator's manual on the auger.

A snap-in bracket is used to attach the container to the auger housing. This bracket is positioned on the half band that holds the motor mount to the tube. See Fig. 17.

TO DEALER/ASSEMBLER NOTICE

The assembly of the auger is complete if all the applicable assembly steps in this manual have been followed.

Before delivery to the owner it is a good practice to check the following:

a. Be sure all safety shields and devices are installed properly.
b. Check all safety decals to see if they are clean and readable. If any are missing, damaged, painted over, etc., replace them. See page P-1 for safety sign location. Decals may be obtained from your dealer, distributor or ordered from the factory.
c. Check all bolts and fasteners to see they are tightened and secured properly.
d. Check that the Operator's Manual container (with Operator's Manual inside) is installed in its holder located on the half band that holds the motor mount to the tube.

Deliver this Operator's Manual to the owner along with the auger.

TO THE OWNER

Use this Assembly Section as a reference to determine that the auger is assembled properly.

Make sure an Operator's Manual is delivered along with the auger. Anyone who will operate or work around a portable auger shall first read the Operator's Manual! Failure to read the manual and its safety instructions is a misuse of the equipment.

AC0025894
SAFETY SIGNS AND DECALS

Check all safety signs and replace any that are worn, missing or illegible. The safety sign locations are shown below.
Copies of the Safety Signs are shown on page P-2 and P-3. Safety Signs may be obtained from your dealer or ordered from the factory.

REF. NO.  PART NO.  QTY.  DESCRIPTION  SIZE
---  ------  ----  --------------  -------
1    1001973  1    CAUTION - GENERAL STATEMENTS 1-8  4 3/4 x 8
2    1001985  1    DANGER - ROTATING AUGER  One on side of Auger Housing  4 1/2 x 6 1/4
3    1001990  1    DANGER - BEWARE OF POWER LINES  One on side of Auger Housing  4 x 8
4    1001981  1    DANGER - UPENDING HAZARD  One on Auger Housing  4 1/2 x 6 1/4
5    1001992  1    DANGER - ROTATING SHAFT  One on Auger Housing  4 x 7 1/4
6    1001984  1    DANGER - DO NOT ATTEMPT DISASSEMBLY  One on side of Auger Housing  4 x 6
7    1005324  1    DANGER "STOP" IF ANY GUARDS, SHIELDS  One on side of Auger Housing  4 x 6
8    1001978  1    WARNING - HAND WINCH OPERATION  One on Auger Housing  4 x 7 1/4
9    1001987  2    DANGER - DO NOT REMOVE COVER  Near Internal Bearing Inspection Opening  4 x 6
10   1002605  1    CAUTION - CABLE OUTSIDE IN  On side of Hand Winch Body  –
11   2169A1   1    CAUTION - WINCH OPERATION  On Hand Winch Handle  –
12   1002275  1    NOTICE - SHIPPED WITHOUT OIL  On Outer Half of Enclosed Drive  2 1/2 x 2 5/8
13   1012628  1    2 TO 1 RATIO  On Outer Half of Enclosed Drive  1 x 4

558  02772A1-D2  A002885
SAFETY SIGNS (CONT.)

1. **CAUTION**
   - Read and understand the operator's manual before operating.
   - Do not remove or modify any guards.
   - Make certain everyone is clear before operating or moving the machine.
   - Keep hands, feet, hair and clothing away from moving parts.
   - Stop machine and lockout power to adjust, service or clean.
   - Empty machine and lower to transport position for transporting.
   - Do not attempt to move machine manually, use a towing vehicle.
   - Keep children well clear of work area.

2. **DANGER**
   - **Rotating Auger**
     - Keep hands, feet, hair and clothing away from rotating auger.
     - Do not remove or modify any guards.
     - Keep children well clear of work area.
     - Failure to heed will result in serious injury or death!

3. **DANGER**
   - Beware of power lines. Electrocution hazard.
     - This machine is not insulated.
     - Keep at least 15 feet away from overhead electrical wires.
     - Electrocution can occur without direct contact.
     - Failure to heed will result in serious injury or death!

4. **DANGER**
   - **Rotating Shaft**
     - Do not remove or modify any guards.
     - Keep body, hair and clothing away from rotating shaft.
     - Keep children well clear of work area.
     - Failure to heed will result in serious injury or death!

---

02771A1-A
A0002886
MAIN AUGER COMPONENTS

ELECTRIC DRIVE COMPONENTS

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1012527</td>
<td>Motor Mount Frame</td>
</tr>
<tr>
<td>2</td>
<td>5920A1</td>
<td>4” Wide Half Band</td>
</tr>
<tr>
<td>3</td>
<td>1012536</td>
<td>Belt Guard</td>
</tr>
<tr>
<td>4</td>
<td>8841D</td>
<td>4-Hole Flange Bearing 1” Bore</td>
</tr>
<tr>
<td>5</td>
<td>1953C</td>
<td>Strap and Threaded Rod Weldment</td>
</tr>
<tr>
<td>6</td>
<td>1746C</td>
<td>Top Strap (12 1/2” long)</td>
</tr>
<tr>
<td>7</td>
<td>50465A1</td>
<td>Motor Mounting Strap (18” long)</td>
</tr>
<tr>
<td>8</td>
<td>50404A1</td>
<td>Motor Mount Clip (12” long)</td>
</tr>
<tr>
<td>9</td>
<td>1747C</td>
<td>Motor Mount Tube (19” long)</td>
</tr>
<tr>
<td>10</td>
<td>54006</td>
<td>Bearing Flange (Triangular)</td>
</tr>
<tr>
<td>11</td>
<td>6382C</td>
<td>1” Bore Bearing</td>
</tr>
<tr>
<td>12</td>
<td>54564</td>
<td>Drive Shaft Cover Clip</td>
</tr>
<tr>
<td>13</td>
<td>1015679</td>
<td>1” Motor Mount Shaft 25” long</td>
</tr>
<tr>
<td>14</td>
<td>1002382</td>
<td>Drive Shaft Coupler</td>
</tr>
<tr>
<td>15</td>
<td>8371C</td>
<td>Square Key 1/4” x 1 1/2” long</td>
</tr>
<tr>
<td>16</td>
<td>1003493</td>
<td>Drive Shaft (1” x 16-6” long)</td>
</tr>
<tr>
<td>17</td>
<td>1012539</td>
<td>6.2” P.D. GD Sheave 3B</td>
</tr>
<tr>
<td>18</td>
<td>3288A1</td>
<td>Q.D. Bushing 1” Bore SDS</td>
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<tr>
<td>19</td>
<td>1012535</td>
<td>B-34 Belt</td>
</tr>
<tr>
<td>20</td>
<td>4045A1</td>
<td>Square Key 1/4” x 2” long</td>
</tr>
<tr>
<td>21</td>
<td>1004287</td>
<td>Manual Container (with two caps)</td>
</tr>
<tr>
<td>22</td>
<td>1004744</td>
<td>Cap for Manual Container</td>
</tr>
<tr>
<td>23</td>
<td>1012850</td>
<td>Half Bend with Manual Holder Bracket</td>
</tr>
</tbody>
</table>
MAIN AUGER COMPONENTS - (See drawing on page P-6.)

AUGER HOUSING - MAYRATH

NOTE: There are different types of auger housings depending on the models and options.

Mayrath TD Series Augers are painted red 14 ga. wall housings only.

Mayrath TD-Plus Series Auger are galvanized housing only.

Options:

- There are two types of auger housing thicknesses:
  - The 14 ga. wall tubing is standard.
  - The 12 ga. wall tubing is heavy duty.

If your auger has optional internal bearings, be sure to select the housing for internal bearings.

IMPORTANT: The auger housing length is one foot shorter than the stated auger length, so the housing for 31' auger will be 30'-0" long.

<table>
<thead>
<tr>
<th>REF. PART</th>
<th>NO.</th>
<th>NO.</th>
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<tbody>
<tr>
<td>1 - - -</td>
<td>1012790</td>
<td>0</td>
<td>Auger Housing* (30'-0&quot; long)</td>
</tr>
<tr>
<td>1012790G</td>
<td>Painted Auger Housing (14 ga. tube)</td>
<td></td>
<td></td>
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<tr>
<td>1012790G9G</td>
<td>Galv. Auger Housing (14 ga. tube)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - - -</td>
<td>1012790G9</td>
<td>0</td>
<td>Auger Housing* for Optional Internal Bearings</td>
</tr>
<tr>
<td>1012790G9S</td>
<td>Galv. Auger Housing (14 ga. tube)</td>
<td></td>
<td></td>
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<tr>
<td>1012790G9S9</td>
<td>Galv. Auger Housing (12 ga. tube)</td>
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</table>

*Auger Housing Includes Drive Shaft and Drive Shaft Bearings.

AUGER HOUSINGS - HUTCHINSON

NOTE: There are different types of auger housing depending on the models and options.

Hutchison American Series Augers are painted red 14 ga. wall housings only.

Hutchison Century II Series Auger are galvanized housings only.

Options:

- There are two types of auger housing thicknesses:
  - The 14 ga. wall tubing is standard.
  - The 12 ga. wall tubing is heavy duty.

If your auger has optional internal bearings, be sure to select the housing for internal bearings.

IMPORTANT: The auger housing length is one foot shorter than the stated auger length, so the housing for 31' auger will be 30'-0" long.

<table>
<thead>
<tr>
<th>REF. PART</th>
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<td>1012791</td>
<td>0</td>
<td>Auger Housing* (30'-0&quot; long)</td>
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<tr>
<td>1012791G</td>
<td>Painted Rad Auger Housing (14 ga. tube)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1012791G9G</td>
<td>Galv. Auger Housing (14 ga. tube)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - - -</td>
<td>1012791G9</td>
<td>0</td>
<td>Auger Housing* (30'-0&quot; long) for Optional Internal Bearings</td>
</tr>
<tr>
<td>1012791G9S</td>
<td>Galv. Auger Housing (14 ga. tube)</td>
<td></td>
<td></td>
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<td>Galv. Auger Housing (12 ga. tube)</td>
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*Auger Housing Includes Drive Shaft and Drive Shaft Bearings.

ONE PIECE AUGER FLIGHT SECTIONS

NOTE: There are many different flight sections depending on the models and what flight options the auger is equipped with.

<table>
<thead>
<tr>
<th>REF. PART</th>
<th>NO.</th>
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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>2 - - -</td>
<td>62712</td>
<td>0</td>
<td>Standard Duty Flight 7 Flight, .187 thick flighting on 1.875 O.D. tubing</td>
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<tr>
<td>1009769</td>
<td></td>
<td></td>
<td>Heavy Duty Flight 1/4&quot; thick flighting on 2.375 O.D. tubing</td>
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OPTIONAL INTERNAL BEARING FLIGHT SECTIONS

If your auger is equipped with optional internal bearings, you must select flight sections from this internal bearing listings.

<table>
<thead>
<tr>
<th>REF. PART</th>
<th>NO.</th>
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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>2 - - -</td>
<td>1004786</td>
<td>0</td>
<td>Upper Section (with cutback) 10'-10 1/4' long</td>
</tr>
<tr>
<td>1011D</td>
<td></td>
<td></td>
<td>Intermediate Section - 9'-3 3/4' long</td>
</tr>
<tr>
<td>1044D</td>
<td></td>
<td></td>
<td>Lower Section 10'-2&quot; long</td>
</tr>
<tr>
<td>2 - - -</td>
<td>1009779</td>
<td>0</td>
<td>Heavy Duty Flight for Internal Bearings is 1/4&quot; thick flighting on 2.375 O.D. tubing</td>
</tr>
<tr>
<td>62449</td>
<td></td>
<td></td>
<td>Intermediate Section - 9'-3 3/4' long</td>
</tr>
<tr>
<td>1009794</td>
<td></td>
<td></td>
<td>Lower Section 10'-2&quot; long</td>
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</table>

OPTIONAL INTERNAL BEARING FLIGHT CONNECTING COMPONENTS

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<th>REF. PART</th>
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<th>DESCRIPTION</th>
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<td>3</td>
<td>10450</td>
<td>0</td>
<td>Connecting Stub (1 1/2 x 11 1/2&quot; long)</td>
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<td>4</td>
<td>4013901</td>
<td>0</td>
<td>Internal Bearing Hanger w/Brass Bushing</td>
</tr>
<tr>
<td>1051D</td>
<td></td>
<td></td>
<td>Replacement Bronze Bushing only</td>
</tr>
<tr>
<td>10580</td>
<td></td>
<td></td>
<td>Inspection Hole Cover (large)</td>
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<td>1042D</td>
<td></td>
<td></td>
<td>Inspection Hole Cover (small)</td>
</tr>
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<td>5</td>
<td>1006004</td>
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<td>Connecting Bolt 1/2&quot; x 3 1/2&quot; long</td>
</tr>
<tr>
<td>6</td>
<td>1005127</td>
<td>0</td>
<td>Side Dampens Lock Nut 1/2&quot;</td>
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</table>

ENCLOSED DRIVE TO FLIGHTING CONNECTING HARDWARE (FOR FLIGHTING MOUNTED ON 1.90" O.D. TUBING)

<table>
<thead>
<tr>
<th>REF. PART</th>
<th>NO.</th>
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<tbody>
<tr>
<td>7</td>
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FOR FLIGHTING MOUNTED ON 2.375" O.D. TUBING

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<th>REF. PART</th>
<th>NO.</th>
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<td>7</td>
<td>1006004</td>
<td>0</td>
<td>Connecting Bolt 1/2&quot; x 3 1/2&quot; long</td>
</tr>
<tr>
<td>8</td>
<td>1005127</td>
<td>0</td>
<td>Side Dampens Lock Nut 1/2&quot;</td>
</tr>
</tbody>
</table>

3/02
A0002889
PARTS LIST

MAIN AUGER COMPONENTS

NOTE: Top mounted electric drive components are shown on P-4.

Typical Bearing Stand

Typical Pulley and Clevis Detail

Optional Internal Bearing Detail

PRE-ASSEMBLED OR PURCHASED COMPONENTS

Items listed below can be ordered as complete assemblies or individual components can be selected by referring to their parts breakdowns listed on other pages.

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1001865</td>
<td>Enclosed Drive Assy. 610&quot;</td>
</tr>
<tr>
<td>B</td>
<td>3335A11</td>
<td>Winch N-1550 Brake Type</td>
</tr>
<tr>
<td>C</td>
<td>1001563</td>
<td>Spindle &amp; Hub Assembly 4-Bolt</td>
</tr>
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1/09 0401158  A0022890
A ENCLOSED HEAD DRIVE ASSEMBLIES

10" ENCLOSED DRIVE
COMPLETE ASSEMBLY NO. 1001845
RATIO 2 TO 1

REF NO. PART NO.
1 1001523 Aluminum Casting (inside half)
2 1001522 Aluminum Casting - Cover
3 1001846 #80 Roller Chain - 37 pitch (w/connecting link)
4 1001573 Gasket
5 486026 3/8" Plug
6 106322 1 1/4" Bearing Cone
7 035439 1 1/2" Bearing Cone
8 (Timken No. 15123)
9 0102501 1 1/2" Bore Sprocket - 26 tooth
10 1001574 Stub Output Shaft 1 1/2" dia.
11 1001575 Stub Input Shaft 1 1/4" dia.
12 1012500 1 1/4" Bore Sprocket - 13 tooth
13 4727-1 5/16" x 1 1/4" HHCS
14 33144 5/16" Lockwasher
15 33190 5/16" x 1 1/2" Roll Pin
16 035960 Output Shaft Seal - (1 1/4" I.D. x 2 1/8" O.D.)
17 85108 Input Shaft Seal - (1 1/4" I.D. x 2.248" O.D.)
18 4039A1 Square Key 1/4" x 1".
19 1002276 Square Key 3/8" x 1"
20 35151 Non-Lock Nut 5/16"
21 1080323 1 1/4" Bearing Cup
(Timken No. 15245)
22 035440 1 1/2" Bearing Cup
(Timken No. LM29710)
23 1001438 3/8" Pipe (Vented plug)
24 1012528 Decal "2 to 1 Ratio"
25 1002527 "Notice - Oil FIF" Decal
26 553930 Drive Shaft Mounting Clip
27 533183 Self-Taping Screw
28 1003283 4" Long Coupler (1" to 1 1/4")
29 8371C Key 1/4" x 1 1/2"

*Indicates items that are not part of the assembly number.
These items are sold separately.
PARTS LIST

WINCH - BRAKE TYPE

NOTE: Repub parts for which can also be purchased directly from:
Fulton Manufacturing Corp.
P.O. Box 19993
Milwaukee, WI 53219

*Indicates standard hardware items - purchase locally.
**These items are not available as separate parts because of the precision assembly required. If these parts require replacement, a new winch unit is recommended.

PARTS LIST FOR FULTON MODEL K1550 WINCH
COMPLETE PART NUMBER 3335A11

<table>
<thead>
<tr>
<th>REF NO.</th>
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<th>NOTCH/REEL MARKED</th>
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<tr>
<td>1</td>
<td>Spindle Semi Assy</td>
<td>4735273</td>
<td>3335A11</td>
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<tr>
<td>2</td>
<td>Cable Clamp</td>
<td>Cable Keeper</td>
<td>Cable Keeper</td>
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<tr>
<td>3</td>
<td>Lock Washer &amp; Nut</td>
<td>2862011</td>
<td>2862081</td>
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<tr>
<td>4</td>
<td>Starting Bolt</td>
<td>4110589</td>
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<td>5</td>
<td>Lock Nut 5/8&quot; - 15 Hex</td>
<td>3750110</td>
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<tr>
<td>6</td>
<td>Ratchet Spacer</td>
<td>Ratchet Kit</td>
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<tr>
<td>7</td>
<td>Ratchet Drum</td>
<td>633656</td>
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<td>Hex Head Bolt 3/8&quot; - 18</td>
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<td>Hex Head Screw</td>
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<td>10</td>
<td>2 x 1/4 Rivets</td>
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<td>11</td>
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<td>Input Shaft</td>
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<tr>
<td>12</td>
<td>Spacer</td>
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<td>13</td>
<td>Bushing</td>
<td>K55</td>
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<td>Bearing Tower 1/2&quot;</td>
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<td>Ratchet Drum</td>
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<td>Pinion &amp; Gear Assembly</td>
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<td>19</td>
<td>Hex Head Cap Screw 3/4&quot; - 16 - 3/4&quot;</td>
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<tr>
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<td>Hex Head Cap Screw 1/2&quot; - 13 - 5/8&quot;</td>
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<td>28</td>
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</table>

4-BOLT SPINDLE & HUB ASSEMBLIES

REF. NO. DESCRIPTION
---
1001563 Spindle & Hub Assy.
1001002 Spindle (2 1/16" x 10")
100256 Grease Seal
307951 Inner Cone (Timken No.)
314883 Inner Cup (Timken No.)
106241 Lug Bolt
106241 Lug Nut
106252 Washer
106250 Slotted Hex Nut (5/8"
111140 Cotter Pin (5/32" x 1 1/4"
106244 Hub Cap

**Furnished with Cups Only.**