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 THE 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 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 the symbol when a warning is given, be alert to the possibility of personal injury or death.
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OPERATOR QUALIFICATIONS

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.

Operation of this auger shall be limited to competent and experienced persons. In addition, anyone who will operate or work around an auger must use good common sense. In order to be qualified, the operator 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 this auger. It is your responsibility to know what these regulations are in your 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 safe operation and servicing of all equipment which the employee is, or will be involved with.”

3. Unqualified persons are to stay out of the work area. See page 4.

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.

<table>
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MACHINE INSPECTION
After delivery of your new hopper 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. They are listed in the parts section. Safety signs may be obtained from your Dealer or ordered from the factory.
3. Are all fasteners tight?
OPERATING PROCEDURES

DESIGNATED WORK AREA
Before starting the auger, a designated work area should be established around the hopper.

| Under no circumstances should persons not involved in the operation be allowed to enter 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! Entering the work area by anyone not involved in the actual operation, or trespass into a hazardous 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. |

OPERATING PROCEDURES
START-UP AND BREAK-IN INFORMATION
It is essential to inspect the drive before adding power and know how to shut down in an emergency. During the operation of your equipment, 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 hopper should be run at partial capacity until several hundred bushels of grain have been augered. This polishes the flighting assembly and tube. Once this is accomplished, the hopper can be run full.

Never operate the hopper empty for any length of time as excessive wear will result. If at all possible do not stop or start the hopper under load, especially before the flight and tube become well polished, as this may cause it 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 shall have a full view of the work area and check that all personnel are clear of the designated work area before adding power.

The operator shall have a full view of the work area and check that all personnel are clear of the designated work area before adding power.

FLIGHT SPEED
Proper flight speed is important for efficient operation of the equipment.
1. If the flight speed is faster than what is recommended, excessive wear will result.
2. If the flight speed is too slow, the auger flighting will "load up". High torque will then be required to turn the auger flighting, possibly resulting in damage to the auger. Control the amount of grain fed into the hopper through external means (if changing the flight speed is not an option in your situation).
3. See the chart on the next page for proper flight speeds.
The results or capacities of screw conveyors or augers can vary greatly under varying conditions. Different materials, moisture content, amounts of foreign matter, methods of feeding and speed all play a role in the performance of the auger. Twenty-five percent (25%) moisture could cut capacity back by as much as forty percent (40%) under some conditions.

**FULL LOAD OPERATING PROCEDURES**

It is good practice to visually inspect the hopper periodically during the actual operation. You should be alert for unusual vibrations, noises, and the loosening of any fasteners.

**IMPORTANT:**
The u-joint is located exactly in the center of the elbow when assembled at the factory. When working on the unit, be sure the u-joint is in the exact center for smooth operation.

**SHUTDOWN**

**Normal Shutdown**
Make certain that hopper and incline tube are empty before stopping the unit. Before the operator leaves the work area, the power source shall be locked out.

**Emergency Shutdown**
When the auger has been shut down under load, disconnect and lockout the power source. Clear as much grain as possible from the hopper and auger. Never attempt to restart 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 hopper must be stopped and the power source turned off. Precaution should be made to prevent anyone from operating the hopper when the operator is absent from the work area.

**TROUBLE SHOOTING**

**AUGER VIBRATION**
Damage may have occurred to the auger flighting, 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.

**LOW CAPACITY**
The hopper may not be getting enough grain. Check to make sure the intake has not bridged over, restricting flow.

The exposed flighting in the hopper should be covered with grain to achieve maximum capacity.

Check auger speed. Speeds slower than the recommended speed will result in low capacity.

**AUGER PLUGS**
The auger may be getting too much grain, causing “jamming” inside the housing.

The motor may be too small or wired improperly.

It wet grain or other hard-to-move material, such as sacks, tarp corners, etc.? A plug of the discharge end will cause an auger plug.

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.
TROUBLE SHOOTING - CONT.

IMPORTANT:
The hopper should be frequently checked and serviced to operate freely. Keep all guards and shields in place. Replace any that are damaged or lost.

When the hopper has not been used for an extended period of time, it should be run partially full for several hundred bushels to polish the flighting. Greater horsepower is required during this “break-in” period, so be careful not to overload the hopper as damage can occur to the flight or drive.

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 conditions which determine the frequency.

FLIGHT U-JOINT

The u-joint is located in the hopper below. It should be lubricated at approximately ten (10) hour intervals using an S.A.E. multipurpose type grease. To access the u-joint, remove the cover strap from the top of the coupler box and raise the hinged cover. Be sure to close the cover and replace the strap before operating the unit.

BRONZE FLIGHT BEARINGS

The hopper flight is supported by bronze-with-graphite bearings, which require no lubrication. If the bronze bearing spins inside the retainer, replace the bearing by removing the old one and pressing in a new one.

DO NOT operate unit without hinged cover closed and strap properly installed.
**ASSEMBLY INSTRUCTIONS**

**HOPPER ASSEMBLY**

*for 8” and 10” Models - cont.*

1. Remove intake guard from top drive auger.

2. Remove original tail stub from exposed end of auger flighting.

3. Attach supplied tail stub to exposed end of auger flighting, using 2 hex head bolts and nylock nuts.
   - **On 8” Models** - use 3/8” x 2-1/2” (grade 5) bolt
   - **On 10” Models** - use 1/2” x 3” (grade 5) bolt

4. Install connecting band/jackstand mount (Item 20, Page P-1) over lower end of auger tube. The 5/8” x 2” rectangular cut-out in the band needs to go over the 3/8” square by 1” long keystock stop, that is welded to the lower end of the auger housing.
   - **On 8” Models** - use six (6) 3/8” x 1-1/2” (grade 5) bolts.
   - **On 10” Models** - use eight (8) 3/8” x 1-1/2” (grade 5) bolts.

5. Install the intermediate tube weldment (Item 18, Page P-1) into the other end of the connecting band/jack stand mount until the 5/8” x 2” cut-out in the connecting band goes over the 3/8” square by 1” long keystock stop that is welded to the top of the tube weldment. Tighten connecting band using 3/8” x 1-1/2” bolts, lockwashers and non-lock nuts.

6. Install intermediate tube weldment onto hopper, using 2 hex head bolts, flat washers and nylock nuts.
   - **NOTE:** Install bolts heads on the inside. **DO NOT** tighten completely, coupler box must be allowed to pivot.
   - **On 8” & 10” Models** - use 1/2” x 1-1/4” (grade 5) bolt.

7. Connect tail stub on auger flighting to u-joint on bin hopper, using 1 hex head bolt and nylock nut.
   - **On 8” Models** - use 5/16” x 2-1/2” (grade 5) bolt
   - **On 10” Models** - use 3/8” x 3” (grade 5) bolt
   - **NOTE:** Loosen setscrew on the rear hopper bearing if it is difficult to install auger flighting tail stub into u-joint. Be sure to tighten the setscrew once the tail stub and u-joint have been connected.

8. Ensure that the bin hopper is level with the auger’s undercarriage axle and tighten all the bolts on the connecting band.

9. Bolt hinged cover to the front of the hopper, using two 5/16” x 3/4” (grade 5) bolts, flat washers and nylock nuts.

10. Install cover strap over the lid and onto the 3/8” studs welded to the sides of the coupler box. Fasten strap in place, using two 3/8” nylock nuts.
    - **NOTE:** When adjusting the angle between the auger and the hopper, the 3/8” nylock nuts will need to loosened to allow the lid to slide under the strap as the hopper and auger are adjusted. Retighten the nuts once the hopper has been moved.

11. Mount caster wheels onto hopper, using four hex head bolts, washers and nylock nuts per caster.
    - **On 8” & 10” Models** - use 3/8” x 1-1/4” (grade 5) bolts.

12. Secure transport bar in place, using two hitch pins and hair pin clips. One end of the bar is pinned between the two mounting tabs on the hopper while the other end of the bar is pinned between the transport bar mount brackets on the band-on jackstand mount.
    - **NOTE:** The hopper must be securely pinned before it can be transported.

13. Install a 1/4” x 2-1/2” (grade 5) bolt through the lower end holes of the transport mount brackets on the band-on jackstand mount. Secure with a nylon locknut.


**RUBBER BELTING ASSEMBLY**

Although some items are different in appearance and size for each unit, the following instructions are used for both the 8" and 10" Models. Any differences in hardware items will be noted according to each application.

1. Install the rubber belting along the inside edge of the swing-out hopper (the 8" & 10" Models use 8 clips and 1/4" x 3/4" bolts and nylon locknuts. Loosely attach each clip to the holes positioned around the upper edge of the hopper (the points of each clip should be facing up with the bolt heads on the inside.)

2. Set the belting inside each clip, so the belting is between the clip and the hopper and the edge of the belting is resting on the bolts. (See illustration above.) The belting does not go completely across the output end of the hopper. Keep the ends of the belting extended approximately 1" from the end of the clip and position the belting evenly around the hopper and through the corners.

3. Tighten the bolts to where the clip points draw into the belting and the smooth edge of the clips are in contact with the side of the hopper.
HOPPER AND INCLINE TUBE
8" & 10" BIN HOPPER

ASSEMBLY VIEW OF AUGER FLIGHT & STUB

REFERENCE (ITEM NO. 17) ASSEMBLY VIEW OF AUGER FLIGHT & STUB
# Hopper and Incline Tube

**8” & 10” Bin Hopper - Cont.**

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<td>Incline Flight Stub</td>
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<td>Intermediate Tube Weldment</td>
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