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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Publication No. 34693
Printed 10/87

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SAFETY DECALS

Check components as specified below to insure that safety decals are present and in good condition. If a decal cannot be easily read for any reason or has been painted over, replace it immediately. Decals may be ordered through your Hutchinson Dealer.

CAUTION

1. READ AND UNDERSTAND THE OPERATOR'S MANUAL BEFORE OPERATING.
2. DO NOT REMOVE OR MODIFY ANY GUARDS.
3. MAKE CERTAIN EVERYONE IS CLEAR BEFORE OPERATING OR MOVING THE MACHINE.
4. KEEP HANDS, FEET, HAIR AND CLOTHING AWAY FROM MOVING PARTS.
5. STOP MACHINE AND LOCKOUT POWER TO ADJUST, SERVICE OR CLEAN.
6. DISCONNECT POWER BEFORE SETTING MOTOR OVERLOAD.
7. MAKE SURE AIR ELICIT ON HOPPERS IN UPHILL POSITION.
8. KEEP CHILDREN WELL CLEAR OF WORK AREA.

DECAL NO. 1002301
(Black and yellow)
Located on top surface of head section.

DANGER

DO NOT OPERATE WITH COVER OPEN!
• STOP MACHINE AND LOCKOUT POWER TO ADJUST, SERVICE OR CLEAN.
• KEEP HANDS, FEET, HAIR AND CLOTHING AWAY FROM MOVING CHAIN AND PADDLES.
FAILURE TO HEED WILL RESULT IN SERIOUS INJURY OR DEATH

DECAL NO. 1002310
(Black and white)
Located on side of boot section.

HOPPER SHOWN WITH OPTIONAL WHEEL KIT
POLICIES AND PROCEDURES

PRICES: Prices in effect at the 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 wherever 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 UNLITTLE AKA IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS 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.
OPERATING INSTRUCTIONS

Your new swing-away hopper is a valuable accessory to your Hutchinson Portable Model 50 Mass-Ter Mover. It permits unloading from a truck or wagon simply by driving by the Portable Mass-Ter Mover and then rolling the swing-away hopper into position. Complicated backing maneuvers are not necessary.

- Make certain everyone is clear before operating or moving the machine.
- 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.
- To maintain the economy and efficiency of your Hutchinson Swing-Away Hopper, regular and correct lubrication is a necessity. Neglect leads to reduced efficiency, excessive wear and needless down time.
- Never clean, adjust or lubricate a machine that is in operation.
- Avoid standing on the swing-away hopper assembly. This is an unsafe practice and can also cause structural damage to the swing-away hopper.

The swing-away hopper will roll to either side to a point nearly 90° to the Portable Mass-Ter Mover. Then drive by with trucks or wagons and roll the swing-away hopper to line back up with the Portable Mass-Ter Mover as close as possible.

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 equipment, one person shall be in a position to monitor the operation.

Any conveyor, when it is new or after it sits idle for a season, should go through a "break-in" period. It should be run at partial capacity at full speed until the inside of the housing becomes polished, before attempting full capacity. A failure will most likely occur when it is run at full capacity before it has a chance to get shined up.

If a unit is permitted to "load-up" at low speed, increased stress is put on the drive components and damage to the Mass-Ter Mover can result.

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.

OPERATING CAPACITIES

The results or capacities of conveyors can vary greatly under varying conditions. Different materials, moisture content, amount of foreign matter, methods of feeding and speed all play a role in the performance of the Mass-Ter Mover. Twenty-five (25%) moisture could cut capacity back as much as 50% under some conditions.
SHUTDOWN

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

Emergency Shutdown
Should the conveyor be immediately shutdown under load—disconnect and lockout the power source. Clear as much grain from hopper and housing as you can. Never attempt to restart when full.

NOTE: Starting the unit under load may result in damage to the conveyor.
Such damage is considered abuse of the equipment.
Reconnect power source and clear conveyor gradually.

⚠️ Whenever you must service or adjust your equipment, make sure you stop motor and lockout your power source!

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 taken to prevent anyone from operating the hopper when the operator is absent from the work area.

HYDRAULIC DRIVE: Remove ignition key or coil wire from pump (tractor).
ELECTRIC DRIVE: A main power disconnect switch capable of being locked only in the off position shall be provided.

TROUBLE SHOOTING

1. Extreme noise from housing.
   a. Conveyor chain is too loose. Check chain tension and adjust if necessary.
   b. Improper assembly or misalignment of housing. Loosen housing connection that is source of noise and disassemble. Check for end smoothness and grind if necessary.

2. Belt slippage on electric drive.
   a. Incorrect belt tension. Turn the adjustment bolts on the motor mount until proper tension is reached.
   b. Belt plugged. Clean the grain and any obstructions from the machine as is possible.

3. Hopper not working.
   On hydraulic driven hopper, check routing of hydraulic hose to see if properly attached to tractor and that the direction of chain travel is correct. The grain should be feeding into the housing.

4. Unit not running to full capacity.
   a. Grain is high in moisture. A low capacity will likely be achieved with high moisture grain. Excessive feeding of high moisture grain can cause plugging.
   b. Chain speed is too slow.
   c. Obstruction at intake.

5. Paddle breaking or bending.
   a. Paddles may be coming loose from the chain. Keep paddles securely connected to chain.
   b. Housing misalignment.
   c. Frequent starts under loads. Allow machine to clean out before shutting down.
   d. Sprockets may be off center. Align in center of housing.
   e. Overfeeding; adjust the feeding of the unit to allow less grain to enter while maintaining full speed.
For economical and efficient operation of your Mass-Ter Mover Swing-Away Hopper, maintain regular and correct lubrication. Neglect leads to reduced efficiency, excessive wear and needless down time.

Regular inspections should be established in order to ensure that the equipment is in good operating condition at all times. Use the "Machine Inspection" list below for guidelines.

**MACHINE INSPECTION**

After the conveyor is completely installed and before each seasonal use, inspection of the machine is mandatory.

⚠️ Lockout power before conducting the machine inspection.

1. Inspect the conveyor chain for loose bolts, missing chain parts, missing or damaged chain paddles and the overall chain condition.
2. Check chain tension.
3. On Electric Power Units, check belts condition and check for proper tension.
4. On Electric Power Units, inspect sheaves for alignment and see if they are securely fastened.
5. Check all safety signs and replace any that are worn, missing or illegible. The safety signs are listed in the front of this manual. Safety signs may be obtained from your Hutchinson Dealer or ordered from the factory.
6. On Electric Power Units, check that that the belt guard is installed.
7. Check conveyor sprockets to see if they are centered and set screws are tight.
8. On Hydraulic Power Unit, check hydraulic hoses and fittings for leaks.
9. On Electric Power Units, check drive chain to see if tight and sprockets are aligned.

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

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

**CONVEYOR CHAIN SPROCKET SHAFT BEARING MAINTENANCE**

The sprocket shaft bearings are self-aligning, sealed ball bearings which have been packed at the factory. They should be lubricated 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. Inspect bearing closely for wear, seal damage and shaft not centered in bearing housing. Replace damaged or worn bearings. Also check that the setscrews in the lock collars are tight against the shaft, securing the lock collars to the shaft.

Bearings 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 the inner ring. Lock the collar by tapping in direction of shaft rotation. Tighten setscrews.

**CONVEYOR CHAIN SPROCKETS**

The conveyor chain sprockets should be occasionally checked for movement or slipping on shaft. The sprockets must be centered in the middle of the housing. The setscrews in the sprocket hub should secure the sprocket to the shaft. Also check setscrews on the bearings. These should be tight, holding the shaft from slipping through the bearing.
CONVEYOR DRIVE CHAIN

It is important not to overtighten the conveyor chain. However, if the chain is not sufficiently tight, it will slip at the drive sprocket as capacity is increased. Should this occur, shut off the grain flow to the unit and shut down after the unit has emptied.

To check conveyor chain tension, open the inspection door and grasp one of the paddles and attempt to rotate it up toward the chain. See Fig. A below. Proper chain tension should allow only minimum rotation of the paddle, approximately 10°.

Inspect the conveyor chain for loose bolts, missing chain parts, missing or damaged chain paddles and the overall chain condition.

IMPORTANT SERVICE – MAINTENANCE NOTICE:

The life of the conveyor chain will be shortened when the chain is allowed to sit in water or is operated in acidic conditions, so avoid these situations.

To extend chain life, spray a light coat of oil on the chain after each season's use. Use extreme caution; keep away from moving chain and paddles.

CONVEYOR CHAIN TENSION ADJUSTMENT

Use the boot inspection door to gain access to the conveyor chain for adjustment.

The chain tension adjustment is located on the head section. (See Fig. B.) Move jam nuts on conveyor chain adjustment bolts in direction desired to either loosen or tighten chain. Jam nuts should be moved equal amounts so that sprocket shaft remains straight. Check it by measuring from the shaft at each bearing to the take-up plate.

If chain is still too loose after these adjustments, it may be necessary to remove one or more links from the chain.

Make sure main shaft is square with chain and housing.

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[Diagram showing conveyor chain tension adjustment process]
ELECTRIC POWER UNITS ONLY

DRIVE BELTS
The drive belt tension should be checked regularly. To tighten belts, turn the 3/8" nuts on the motor mount rods to move the motor mount assembly. Move both the rods the same distance so the motor mount assembly is parallel with top of conveyor trunking.

Sheaves must be aligned with each other. Check alignment by placing straight edge across the outer face of both sheaves. Check that drive keys are properly installed and mounting bolts in sheave taper lock bushings are tight.

Replace damaged or worn belts.

JACK SHAFT BEARING
The jack shaft is supported by self-aligning, sealed ball bearings, which have been packed at the factory and require no further lubrication. Check that the retainers are firmly fastened to the bearing stand. Also check that the setscrews in the lock collars are tight against the jack shaft, securing the lock collars to the jack shaft.

DRIVE CHAIN
Keep the chain tight to reduce wear on chain and drive sprocket. If the chain and sprockets are badly worn, they should be replaced for smoother operation. Tighten the drive chain by using the 3/8" x 6" threaded rods to raise the motor mount assembly.

HYDRAULIC DRIVE ONLY
Hydraulic motors when used properly can be a very good source of power. Hydraulics, on the other hand, are a sophisticated system and can create problems if not properly installed. Ordinarily, the size motors required can be plugged into the standard outlets on the back of a tractor and be expected to work adequately. Most newer tractors have a hydraulic pump capable of supplying enough oil. The problems are usually encountered by built-in restrictors in the stock valves -- 1/2" lines supplying tractor outlets -- the snap couplers themselves act as restrictors. Speeding up the tractor to overcome any of the above areas will only result in excess heat build-up which could damage the tractor or the motor.

HYDRAULIC MOTOR
The Swing-out hopper is driven by a Char-Lynn® Hydraulic Motor.

The Char-Lynn® hydraulic motor is built to extremely high standards and should be treated as such. It should be returned to your nearest service center or to the factory if in need of repair. Trained personnel repair and test returned motors so that they meet the highest quality standards. Upon request, before repairs are made, the owner will be notified of the cost and probable cause of the failure. The only exception to the above is the replace-ment of the high-pressure shaft seal.
DRIVE ASSEMBLY

A separate assembly instruction sheet has been provided in box that the drive components were shipped in. This sheet should provide complete instructions for the drive received in that box. If assembly is not clear or the sheet is missing, please contact the Hutchinson Division.

BASIC HOPPER ASSEMBLY

MODEL 50 SHOWN (MODEL 55 IS ASSEMBLED IN THE SAME MANNER)

- 3/8" x 1" LONG HHCS W/LOCKWASHERS & NUTS
- 3/8" x 2" LONG HHCS W/LOCKWASHERS & NUTS
- 5/8" x 4" BOLT W/NUTS
CHAIN

Bolt paddles to chain as shown below with back-up plate between paddle and bracket. The take-up in the head section should be adjusted all the way towards the tail section to provide the maximum amount of adjustment after the chain is installed. Insert chain and paddles through trunking and around main sprockets at ends. Join with connecting link provided. IMPORTANT: Install chain so the paddle mounting brackets will be behind the paddles as grain is moved up the trunking. See Fig. A.

See page 7 for chain tension adjustment.

MODEL 50
USES SINGLE
CONVEYOR CHAIN

MODEL 85
USES DOUBLE
CONVEYOR CHAIN

NOTE: UNIT SHOWN WITH PARTIAL LOAD.
**SHORT BOOT SECTION PARTS**

**MODEL 50**

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<td>553468</td>
<td>Tail Shaft 1 1/4&quot; x 17&quot; long turned to 1&quot;</td>
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<td>3</td>
<td>41139</td>
<td>Sprocket 55Bt. 9 tooth, 1 1/4&quot; Bore with &quot;C&quot; hub</td>
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<tr>
<td>4</td>
<td>8371C</td>
<td>Square Key, 1/4&quot; x 1 1/2&quot; long</td>
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<tr>
<td>5</td>
<td>8341D</td>
<td>Bearing, 1&quot; 4-Hole Flange (SD)</td>
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<td>34218</td>
<td>Danger Decal, &quot;Moving Chain and Paddles&quot;</td>
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**MODEL 85**

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<td>Bearing, 1&quot; 4-Hole Flange (SD)</td>
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01092A1
# BASIC SWING AWAY HOPPER PARTS

## MODEL 50

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<td>Wheel Bracket</td>
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## HEAD SECTION PARTS

### MODEL 50

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<td>5</td>
<td>8371C</td>
<td>Square Key, 1/4&quot; x 1 1/2&quot; long</td>
</tr>
<tr>
<td>6</td>
<td>62537</td>
<td>Cover Plate Weldment</td>
</tr>
<tr>
<td>7</td>
<td>53647</td>
<td>Square Key, 1/2&quot; x 5 3/8&quot; long</td>
</tr>
<tr>
<td>8</td>
<td>7308C</td>
<td>Take-up Bolt, 3/4&quot; x 10&quot;</td>
</tr>
<tr>
<td>9</td>
<td>7307C</td>
<td>Set Collar 3/8&quot;</td>
</tr>
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