POLICIES AND PROCEDURES

PRIICES:
Prices in effect at time of shipment will apply. Prices are subject to change without notice. All prices are F.O.S. 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.

ORDERS:
Back orders will be shipped as they become available. Contact Hutchinson/Mayrath/TerraTrack 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/TerraTrack must be advised of all concealed shortages upon discovery. Once notified of concealed shortages, Hutchinson/Mayrath/TerraTrack will advise corrective action to be taken.

RETURN OF GOODS:
All returns must be approved by Hutchinson/Mayrath/TerraTrack 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 sellable condition may be returned. No safety devices may be returned for credit.

MODIFICATIONS:
It is the policy of Hutchinson/Mayrath/TerraTrack to improve its product whenever possible and practicable 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/TerraTrack 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/TerraTrack location. Only Hutchinson/Mayrath/TerraTrack 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/TERRATRACK CARRY ONLY THE MANUFACTURER'S WARRANTY.
(d) THIS UNDERTAKING 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 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) Improper 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/TERRATRACK HAVE LIABILITY FOR DIRECT DAMAGES IN EXCESS OF THE CONTRACT PRICE OF THE GOODS IN RESPECT TO WHICH CLAIM IS MADE. BUYER FURTHER AGREES THAT IN NO EVENT SHALL HUTCHINSON/MAYRATH/TERRATRACK 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.
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## 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 lower section of 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.

## 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 were worn, missing or illegible. The safety signs are listed on page P-1 and 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 full down position. Cable anchor on winch drum must be tight.
4. Are all fasteners tight?
5. Are all belts and chain properly adjusted? (See Maintenance Section.)
6. Check oil levels in gearbox and 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 spilling.

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

   PORTABLE AUGER IN TRANSPORT POSITION

<table>
<thead>
<tr>
<th>AUGER LENGTH</th>
<th>TRANSPORT HEIGHT</th>
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</thead>
<tbody>
<tr>
<td>15'0&quot;</td>
<td>12'11&quot;</td>
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<tr>
<td>16'6&quot;</td>
<td>12'11&quot;</td>
</tr>
<tr>
<td>17'3&quot;</td>
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<td>18'0&quot;</td>
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<tr>
<td>20'6&quot;</td>
<td>12'11&quot;</td>
</tr>
<tr>
<td>21'3&quot;</td>
<td>12'11&quot;</td>
</tr>
</tbody>
</table>

   IMPORTANT: Transport heights are figured with auger attached to towing vehicle with a drawbar height of 1'4". When the auger intake is resting on the ground, add 1'4" 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.

   2. 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 unencumbered auger should be seated against the down position 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.

   WHEN MOVING AUGER, HAZARD AREA - KEEP OUT
TRANSPORTING AUGER - CONT.

Comply with your state and local regulations governing masking, 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 15'-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 3 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

STEP 1
Locate auger next to bin.

STEP 2
Raise auger.

STEP 3
Back into position.

STEP 1
Move the auger slowly towards working position with towing vehicle—not by hand. Locate the auger on level ground as close as possible to the bin or other structure. Leave adequate room for loaded vehicles to reach the auger intake area conveniently. The wheels must be allowed to roll freely when raising, so be sure the area is clear of any obstructions.

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 must 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. Electrocuton can occur without direct contact.

STEP 2
Raise the auger only high enough to allow minimum clearance above the bin. See "WINCH INSTRUCTIONS" on page 5 for winch operating procedures. Observe all winch safety precautions.

STEP 3
Hook auger allowing 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.

Lower the auger until the discharge is directly over bin opening. See "WINCH INSTRUCTIONS" on page 5. Consider that the discharge end will lower a few inches as the auger fills with grain.

NOTE: When discharging into a grain spreader, always maintain at least 12 inches of space between the auger discharge and the spreader.

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

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PLACEMENT OF AUGER - cont.

STEP 3 - cont.
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 pin. If a hopper is to be used, install at this time.

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

HAND WINCH OPERATION (FRICITION TYPE)

Check the handle assembly on the winch 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.

⚠️ Keep hands away from winch drum during operation.

TO RAISE THE AUGER:

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

TO LOWER THE AUGER:

Turn the handle counter-clockwise; there will be no clicking sound. To stop while lowering the auger, lock the brake by turning the handle clockwise until you hear two clicks (about a 90° movement of the handle).

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

SAFETY REMINDERS - Be aware of the following precautions during operation:

- 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.
- Don’t use hands to guide cable onto winch drum during winch operation.
- Don’t allow auger to become hung up on other structures during lowering.
- Don’t continue to attempt to raise auger after slide reaches stop.

See the winch manufacturer’s information sheet that was shipped with this manual for additional winch information.

DESIGNATED WORK AREA

Before starting the auger, a designated work area should be established and properly marked. The following diagrams show the manufacturers designated work areas. These areas shall be marked off with colored nylon or plastic rope hung as portable barriers to define the designated work areas.

RULES FOR SAFE WORK AREA

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

⚠️ It shall be the duty of all operators to see that children and/or other persons stay out of the work area. 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.

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

A005506
DESIGNATED WORK AREA

PTO DRIVE UNITS

Support Discharge End and/or Anchor Intake

Overhead Wires
Keep Away

Under Auger and Undercarriage Area
Hazard - KEEP OUT

Work Area Authorized Personnel

ONLY

Wheels Should Be Choked

Wheel Checks

Gravity Wagon or Truck

Gravity Wagon or Truck

Auger Drive Area
KEEP OUT

Auger Intake Area
Hazard - KEEP OUT

ELECTRIC DRIVE UNITS

Support Discharge End and/or Anchor Intake

Overhead Wires
Keep Away

Under Auger and Undercarriage Area
Hazard - KEEP OUT

Work Area Authorized Personnel

ONLY

Auger Drive Area
KEEP OUT

Auger Intake Area
Hazard - KEEP OUT

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

START-UP AND BREAK-IN INFORMATION

It is essential to inspect your drive before adding power and mowing to shut down in an emergency. During the operation of your auger, one person shall be in a position to monitor the operation. Any screw conveyor when it is new or after it sets idle for a season should go through a "break-in" period. The auger should be run at partial capacity until several hundred bushels of grain have been augered to polish the flighting assembly and tube. When the screw and tube are polished and smoothed, the auger can be run full. Never operate the auger if 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 "freezeup."

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 flighting is permitted to "load-up", high torque will be required to turn the auger flighting, 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.

DIRECT PTO DRIVE INFORMATION

Only use a tractor with 540 RPM Power Take-Off.

The standard direct PTO may be driven from either side (as explained in the Direct PTO Drive Assembly Section). If the tractor output PTO shaft is operated at 540 RPM, the auger will have 540 RPM auger flight speed.

NOTICE: The PTO drive line furnished with the auger is equipped with a "Spring-Lok" coupler at the tractor end. This type coupler is spring loaded and will fit the standard 1 3/8" x 6" spline PTO output shaft from a tractor.

See that the PTO drive line is securely attached and the retaining balls of the "Spring-Lok" coupler lock into the ring groove of the tractor PTO output shaft. Check this by trying to pull the drive line off of the tractor PTO output shaft. The chain for the PTO drive line shield must be attached to the tractor to prevent the shield from rotating.

CHECK THE FOLLOWING BEFORE ADDING POWER:

1. Be certain that the PTO drive line is securely attached to the auger and the tractor.
OPERATING PROCEDURES

PTO DRIVE INFORMATION - CONT.

2. Align PTO driveline with tractor. The PTO driveline furnished with the auger is a pin stop type that is, the two telescoping sections will not separate. It is a good practice to operate the PTO driveline in as short a configuration as possible. Keep the PTO driveline in as straight a line as possible during operation. When connecting tractor and auger, always make sure the tractor axle and side of auger are parallel.

   KEEP THE U-JOINT ANGLES EQUAL.

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

TO START AUGER:
1. Before starting the tractor, be certain power to PTO is off.
2. Start tractor.
3. Engage PTO at a slow RPM, then work up RPM to recommended speed.

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

TOP MOUNTED ELECTRIC MOTOR DRIVES:

Always use a motor with required H.P. suggested in charts shown on page 9. Use motor that operates at 1750 RPM.

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

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

NOTE: Motor pulleys are not furnished with the auger.
OPERATING PROCEDURES
TOP MOUNTED ELECTRIC MOTOR DRIVE (CONT.)

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.

<table>
<thead>
<tr>
<th>Horsepower Recommendations 8&quot; AUGERS</th>
<th>CHECK THE FOLLOWING BEFORE ADDING POWER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use 4.0&quot; O.D. pulley en motor</td>
<td>1. Check that belt guard is in place, secured and functional.</td>
</tr>
<tr>
<td>For 467 Auger Speed</td>
<td></td>
</tr>
<tr>
<td>Note: For high capacity use 4.5 O.D.</td>
<td></td>
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<tr>
<td>pulley en motor for 225 Auger Speed</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>HORSEPOWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>33&quot;</td>
<td>5</td>
</tr>
<tr>
<td>41&quot;</td>
<td>5</td>
</tr>
<tr>
<td>47&quot;</td>
<td>5-7 1/2</td>
</tr>
<tr>
<td>53&quot;</td>
<td>7 1/2-10</td>
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<tr>
<td>57&quot;</td>
<td>7 1/2-10</td>
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<tr>
<td>59&quot;</td>
<td>10-15</td>
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<tr>
<td>62&quot;</td>
<td>10-15</td>
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<tr>
<td>65&quot;</td>
<td>10-15</td>
</tr>
<tr>
<td>71&quot;</td>
<td>15-20</td>
</tr>
</tbody>
</table>

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.

OPERATING CAPACITIES

Capabilities of screw conveyors or augers can vary greatly under diverse 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. Roughly 320 BPH will be achieved augering dry grain. Maximum possible capacity will be less with high moisture grain (above 15%) than with dry grain.
OPERATING PROCEDURES

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. Therefore, if intermittent operation is to be carried out, it is advisable to reduce the load level. When kept from abolute filling, auger start-up is easier and operation is more efficient.

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. Precautions should be made to prevent anyone from operating the auger when the operator is absent from the work area.

DIRECT PTO DRIVE: Remove ignition key or coil wire from power source. (If this is impossible, remove the PTO driven shaft 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 shall be moved to a different bin for more conveying operations or cleaned up and stored.

---

Step 1
A. Empty all grain from the auger and clean up area.
B. Unite any anchors or remove all supports.
C. Disconnect the power source.
   Top Mounted Electric Drive - Unplug electric motor, wind up electric cables.
   Direct PTO Drive - Disconnect PTO driven motor from tractor and place in support provided for transporting.
NOTE: The bracket pin must be in place to hold the PTO driveline in the support during transporting.
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 3.
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 5.

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 2.

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 9. 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.

On motor drive augers, 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.

On electric powered units, 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 downtime.

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.

GEARBOX

The gearbox is shipped without oil. At field assembly of auger, 90 E.P. (non-foaming) oil is to be added to the gearbox until half full. Check and maintain the level regularly.

PTO DRIVELINE

Augers equipped with PTO driveline, should have the u-joints lubricated at approximately ten (10) hour intervals with SAE multipurpose type grease.

The PTO driveline is shipped with a shear bolt at the auger connection. The shear bolt protects the auger from damage if the auger becomes plugged or subjected to high loads. It is important to use the correct replacement bolt of the proper size and strength to insure that the shear device will protect the auger and operator. For 8" augers, order replacement shear bolt, Part No. 33046 - 5/16" - 18 x 1" long grade 5 bolt. Extra shear bolts are provided with auger.

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 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 THOUGH 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.

FRICITION 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 thin 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 pinion 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. See the operating procedures section for belt adjustment location.

01870A1-0 A003503
LUBRICATION AND MAINTENANCE (CONT’D)

BEARINGS

Drive Shaft Bearing

All drive shafts are supported by self-aligning, sealed ball bearings, which have been packed at the factory and require no further lubrication. There is no adjustment to be made to the bearings but to check that the retainers are firmly fastened to the bearing stand. Also check that the set screws 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 8” augers and should be repacked with grease and adjusted annually or as needed, determined by usage.

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 device where the auger may be laid out full length. Arrange the tube sections in their relative positions. The drive shafts on each section must be in line. Also, level the track on the upper section to the undercarriage mount and winch mount on the lower section.

For ease of assembly, place the tubes on stands or saw horses. This will aid the assembly of the undercarriage. Be sure the supports can bear the weight of the auger tubes. A stand height of about 36" is recommended.

NOTE: If optional corn screens are included, be aware that they are placed in different locations depending on the type of drive used to power the auger. If interference between the corn screens and drive components occurs, check to see that the proper corn screen housing is being used.

33' Model

41' Model

47' Model

53' Model

57' Model

59' Model
ASSEMBLY INSTRUCTIONS
LAY OUT THE AUGER TUBE - (CONT.)

62' MODEL

65' MODEL

71' MODEL

FIG. 2

SHIPPING BRACKET

Remove the shipping bracket from the drive shaft. See Figure 1 or 2 for locations of shipping brackets.

FLIGHT AND AUGER HOUSING

ASSEMBLY

NOTE: For units with optional internal flight bearings, go to page 16 for flight and housing assembly.

Step 1. Bolt the auger flighting sections together using two 7/16" x 9" (grade 8) black hex head cap screws and side depress locknuts. The lower flight will lap the upper flight about one inch. See Figure 3. NOTE: Flight connection between middle and head section on the 71' model does not lap.

Step 2. Install a 1/4" x 1 1/2" square key into the end of each drive shaft. Slide a 1" to 1" drive shaft coupler onto the end of one of the drive shafts.

Step 3. As you slide the auger housings together, couple the drive shafts.

Step 4. Be sure the auger housings are pushed tight together. Position the connecting band so half of the band is on each side of the joint. Secure the band using (6) 3/8" x 1 1/2" long (grade 5) hex head cap screws and nuts.
ASSEMBLY INSTRUCTIONS

AUGER FLIGHT AND AUGER HOUSING SECTION ASSEMBLY FOR UNITS WITH OPTIONAL INTERNAL FLIGHT BEARING

**Step 1.** Install a 1/4" x 1 1/2" long square key into the end of each drive shaft. Slide a 1" to 1" drive shaft coupler onto the end of one of the drive shafts.

**Step 2.** As you slide the auger housing section together, guide the drive shaft into the coupler and the tight connection stub (in the upper flight section) into the lower flight section.

**Step 3.** Using the inspection hole as an access, bolt the tight connection stub to the lower flight section using two 7/16" x 3" long (grade 8) black hex head capscrews and side depress locknuts.

**Step 4.** Slide the connecting band so it is spaced about half way on each auger housing. Tighten the connecting band in place using six 3/8" x 1 1/2" long (grade 5) hex head capscrews and nuts.

**BAND-ON TRACK TO AUGER HOUSING - 62' ONLY**

A band-on track is used on 62' and 65' models. See instructions on page 17 for band-on track assembly for 65' model.

**Step 1.** Fasten the two connecting plates to the inside of the lower end of the track twisted to the upper auger housing, using two 3/8" x 1 1/4" long grade 5 hex head capscrews, flat washers, lockwashers and nuts per each connecting plate. **IMPORTANT:** The connecting plates must be assembled to the inside of the track.

**Step 2.** Position the band-on track under the lower auger housing section (with the holes in the track positioned toward the upper auger section.)

**Step 3.** Fasten the two connecting plates to the band-on track using two 3/8" x 1 1/4" grade 5 hex head capscrews, flat washers, lockwashers and nuts per each connecting plate. Using the slots in the connecting plate, slide the ends of the track together so they are touching.

**Step 4.** Using three 4" wide halfbands, secure the band-on track to the lower auger housing. Use four 5/16" x 1 1/2" long (Grade 5) hex head capscrews and nuts per each 4" wide halfband.
ASSEMBLY INSTRUCTIONS

BAND-ON TRACK TO AUGER HOUSING - 65 ONLY

A band-on track is used on 62 and 65 models. See instructions on page 16 for band-on track assembly for 62 models.

Step 1: Fasten the two connecting plates to the inside of the lower end of the track welded to the upper auger housing, using two 3/8" x 1 1/4" long (grade 5) hex head cap screws, flash washers, lock washers and nuts per each connecting plate. IMPORTANT: The connecting plates must be assembled to the inside of the track.

Step 2: Position the band-on track under the lower auger housing section (with the holes in the track positioned toward the upper auger section).

Step 3: Fasten the two connecting plates to the band-on track using two 3/8" x 1 1/4" (grade 5) hex head cap screws, flat washers, lock washers and nuts per each connecting plate. Using the slots in the connecting plate, slide the ends of the track together so they are touching.

Step 4: Using one 4" wide and two 2" wide half bands, secure the band-on track to the lower auger housing. Use four 5/16" x 1 1/2" long (grade 5) hex head cap screws and nuts per each 4" wide half band. Use two 5/16" x 1 1/2" long (grade 5) hex head cap screws and nuts per each 2" wide half band.

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. 8.

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.

FIG. 7

FIG. 8
ASSEMBLY INSTRUCTIONS

NOTICE - The assembly instructions on this page and page 19 and 20 are for PTO Driven Augers ONLY.

DRIVE SHAFT EXTENSION FOR PTO DRIVEN AUGER

*Step 1.* Bolt bearings to band on bearing stands. (On 47 models bolt bearings to the welded bearing stand on the lower tube section.) Attach each bearing using two retainers and one drive shaft cover mounting bracket. (See Fig. 9)

![Diagram of drive shaft extension](image)

**FIG. 9**

*Step 2.* Slide bearing stands onto extension drive shaft. Attach extension drive shaft to auger drive shaft using a coupler and two 1/4" x 1 1/2" square keys. See Fig. 12 on page 19 for correct band-on bearing stand spacing. Fasten band-on bearing stand in place, using half bands and two 5/16" x 1 1/2" (grade 5) hex head cap screws and nuts. Tighten two bearing setscrews to lock bearing to extension drive shaft.

GEARBOX ASSEMBLY

*Step 1.* Add oil to Gearbox. Gearboxes are equipped with two oil fill plugs and are shipped without oil. One plug is vented and must always be on the top side of the box. **IMPORTANT:** ADD 90 EP (non-foaming) oil until the gearbox is half full.

*Step 2.* Attach gearbox to band-on mount with four 3/8" x 3/4" long (grade 5) hex head cap screws and lockwashers.

*Step 3.* Set gearbox on auger and connect to drive shaft with coupler and two 1/4" x 1 1/2" long square keys. (See Fig. 11)

*Step 4.* Secure gearbox mount to auger housing using half band (with a manual container bracket) and four 5/16" x 1 1/2" long (grade 5) hex head cap screws and locknuts.

*Step 5.* Attach the drive shaft cover bracket to top of gearbox with two 3/8" x 3/4" long (grade 5) hex head cap screws with lockwashers.

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. 13 on page 20. Begin at the intake end of unit. Work up the unit, overlapping covers at each bearing stand. See page 21 for proper assembly of the drive shaft covers.

0102DA1 02135A1 0P3712 0D005609
ASSEMBLY INSTRUCTIONS

NOTICE: The assembly instructions on this page and pages 18 and 20 are for PTO Driven Augers Only.

FIG. 12

GEARBOX
33'
BAND-ON BEARING STAND
DRIVE SHAFT EXTENSION

GEARBOX
41'
BAND-ON BEARING STAND
DRIVE SHAFT EXTENSION

GEARBOX
47'
BAND-ON BEARING STAND
WELD-ON BEARING STAND
DRIVE SHAFT EXTENSION

GEARBOX
53'
BAND-ON BEARING STAND
DRIVE SHAFT EXTENSION

GEARBOX
57'
BAND-ON BEARING STAND (S)
DRIVE SHAFT EXTENSION

GEARBOX
59'
BAND-ON BEARING STAND (S)
DRIVE SHAFT EXTENSION

GEARBOX
62'
BAND-ON BEARING STAND (S)
DRIVE SHAFT EXTENSION

GEARBOX
65'
BAND-ON BEARING STAND (S)
DRIVE SHAFT EXTENSION

GEARBOX
71'
BAND-ON BEARING STAND (S)
DRIVE SHAFT EXTENSION
ASSEMBLY INSTRUCTIONS

NOTICE: The assembly instructions on this page and pages 18 and 19 are for PTO Driven Augers Only.

DO NOT operate auger without all drive shaft covers in place.
ASSEMBLY INSTRUCTIONS

DRIVE SHAFT COVERS

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 edge.

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. 14.

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. 14.

FIG. 14
ASSEMBLY INSTRUCTIONS

NOTICE - The assembly instructions on this page AND PAGES 23 AND THE TOP PORTION OF PAGE 24 are for [Top Mount] Electric Driven Augers ONLY.

DRIVE SHAFT EXTENSION FOR 47" ONLY

Step 1. Bolt bearings to weld-on bearing stand at the upper end of the lower auger section. (See Fig. 18 on page 23 for location.) Attach the bearing using two retainers and one drive shaft cover mounting bracket. (See Fig. 15.)

![Fig. 15]

Step 2. Slide 51" long drive shaft through bearing stand. Attach 51" long drive shaft to auger drive shaft using a coupler and two 1/4" x 1 1/2" square keys. Tighten two bearing set screws to lock bearing to 51" long drive shaft.

GEARBOX ASSEMBLY

Step 1. All oil to gearbox. Gearboxes are equipped with two oil fill plugs and are shipped without oil. One plug is vented and must always be on the top side of the box.

IMPORTANT: ADD 90 EP (non-foaming) oil until the gearbox is half full.

Step 2. Attach gearbox to band-on mount with four 5/8" x 3/4" long (grade 5) hex head capscrews and lockwashers.

NOTE: On 41" electric driven models only, the gearbox will be attached to a gearbox mount that is welded to the connecting band. (See Fig. 19 on page 23.)

Step 3. Set gearbox on auger and connect to drive shaft with coupler and two 1/4" x 1 1/2" long square keys. (See Fig. 17.) NOTE: On 41" models, the connecting band bolts may need to be loosened so the gearbox can be slid forward when the drive shaft coupler is installed. Tighten connecting band bolts after drive shaft coupler is installed.

Secure gearbox mount to auger using half band (with a manual container bracket) and four 5/16" x 1 1/2" long (grade 5) hex head capscrews and locknuts.

Step 4. Attach the drive shaft cover bracket to top of gearbox with two 5/8" x 3/4" long (grade 5) hex head capscrews with lockwashers.

Step 5. On 41" models only, use a plain 4" wide halfband, fasten the halfband with a manual container bracket to the auger housing 45" from intake end of the auger tube. (See Fig. 18 on page 23 for location drawing.) Use four 5/16" x 1 1/2" long (grade 5) hex head capscrews and nuts to secure halfbands to auger housing.

01025448 021195A1 041277A2 A00002610
ASSEMBLY INSTRUCTIONS

NOTICE - The assembly instructions on this page and on pages 22 and the top portion of page 24 are for (Top Mount) Electric Driven Augers ONLY.

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. 18 below and Fig. 20 on page 24. Begin at the intake end of unit, work up the unit, overlapping covers at each bearing stand. See page 21 for proper assembly of the drive shaft covers.

DO NOT operate auger without all drive shaft covers in place.

FIG. 19
FOR 41' ONLY

FIG. 18
ASSEMBLY INSTRUCTIONS

NOTICE - The assembly instructions on the top portion of this page and on pages 22 and 23 are for (Top Mounted) Electric Augers ONLY.

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 a pint of 90 EP (non-foaming) oil or 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

NOTE: Top Truss is not required on 33' Model.

TOP TRUSS - 41' AUGER

Step 1. To assemble the bolt-together type truss, attach the two vertical truss tubes to the truss mounts on the auger housing using 5/8" x 1 1/2" long (grade 5) hex head cap screws, lock washers and nuts. (See Fig 25.) To locate the truss mounts on the auger housing, measure from the head plate (at the discharge end). It should be 21'-2" back on the tube for 41' models.

Step 2. Attach the truss top crossmember (24" long) to the vertical tubes using 5/8" x 1 1/2" long (grade 5) hex head cap screws, lock washers and nuts. DO NOT tighten at this time.

IMPORTANT: Be sure to slide the hex head cap screws through the cable clamp clips before putting hex head cap screws through the horizontal tube. The hex head cap screws must go through the horizontal tube from the top.

Step 3. Attach cables to upper cable anchors at discharge end using two cable clamps per each. NOTE: Secures the clamp u-bolts against the loose end of the cable.

Step 4. Run the cables over the center truss and attach using cable clips. DO NOT tighten cable clips down at this time.

Step 5. Install eye bolts through anchors at intake end, using flat washer and two nuts per each eyebolt. (See Fig. 26.)

Step 6. Attach cables to eye bolts using two cable clamps per cable. NOTE: Secure the clamp u-bolts against the loose end of the cable. (See Fig. 26.)

Step 7. Using eye bolts, tighten cable to remove slack to where the truss is reasonably snug. Tighten both cables the same. DO NOT over tighten. Some adjustment can be made after the auger is completely set up.

Step 8. Adjust the truss support to where it is 90° to the tube. Tighten cable clips on top of truss to secure cable in place. Tighten the 5/8" x 1 1/2" long hex head cap screws mounting truss assembly to auger housing.

FIG. 25

41' MODEL SHOWN

FIG. 26
ASSEMBLY INSTRUCTIONS

TOP TRUSS - 47", 53" & 57" AUGER

**Step 1.** To assemble the bolt-together type truss, attach the two vertical truss tubes to the truss mounts on the auger housing using 5/8" x 9" long (grade 5) hex head cap screws, lockwashers and nuts. (See Fig. 27.)

To locate the truss mounts on the auger housing, measure from the head end of the auger housing (at the discharge end). It should be 24'-2" back for 47", 53" & 57" models.

**Step 2.** Attach the truss top crossmember (24" long) to the vertical tubes using 5/8" x 1 1/2" long (grade 5) hex head cap screws, lockwashers and nuts. **DO NOT** tighten at this time.

**IMPORTANT:** Be sure to slide the hex head cap screws through the cable clamp clips before putting hex head cap screws through the horizontal tube. The hex head cap screws must go through the horizontal tube from the top.

**Step 3.** Attach cables to upper cable anchors at discharge end using two cable clamps per each cable.

**NOTE:** Secure the clamps u-bolts against the loose end of the cable.

**Step 4.** Run the cables over the center truss and attach using cable clips. **DO NOT** tighten cable clips down at this time.

**Step 5.** Install eye bolts through anchors at intake end, using flat washer and two nuts per each eye bolt. (See Fig. 28.)

**Step 6.** Attach cables to eye bolts using two cable clamps per cable. **NOTE:** Secure the clamp u-bolts against the loose end of the cable. (See Fig. 28.)

**Step 7.** Using eye bolts, tighten cable to remove slack to where the cable is reasonably snug. Tighten both cables the same. **DO NOT** overtighten. Some adjustments can be made after the auger is completely set up.

**Step 8.** Adjust the truss support to where it is 90° to the tube. Tighten cable clips on top of truss to secure cable in place. Tighten the 5/6" x 9" long hex head cap screw mounting truss assembly to auger housing.

**47" MODEL SHOWN**

**53" AND 57" SIMILAR**

<table>
<thead>
<tr>
<th>UNIT SIZE</th>
<th>CABLE TRUSS LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>47&quot; Models</td>
<td>31'-6&quot;</td>
</tr>
<tr>
<td>53&quot; Models</td>
<td>31'-6&quot;</td>
</tr>
<tr>
<td>57&quot; Models</td>
<td>36'-3&quot;</td>
</tr>
</tbody>
</table>

**EYEBOLT**

**CABLE CLIP**

**24" LONG HORIZONTAL TUBE**

**LOWER CABLE ANCHOR**

**TRUSS MOUNT**

**5/8" x 1-1/2" Long (Grade 5) Hex Head Cap Screw with Lockwasher & Nut**

**SADDLE PORTION OF CABLE CLAMP**

**LOWER CABLE ANCHOR**

**FLAT WASHER**

**LATCH PORTION OF CABLE CLAMP**

**EYEBOLT AND CABLE CLAMP DETAIL**

**Fig. 28**
Step 1. Attach the center truss to the auger housing using the 3/4" x 10 1/2" attachment pin and cotter pins provided with the center truss. To locate the truss mount on the auger housing, measure from the head end of the auger housing (discharge end). It should be 24'-2" back on 59' models, 25'-7" back on 62' models, and 30'-0" back on 65' models.

Step 2. Attach cables to the upper cable anchors at the discharge end using two cable clamps per each cable. NOTE: Secure the clamps u-bolt against the loose end of the cable.

Step 3. Run the cables over the center truss and attach, using a cable clamp to secure cable to the top of the truss. **DO NOT** tighten these cable clamps at this time.

Step 4. Install eye bolts through anchors at intake end, using flat washer and two nuts per each eye bolt. See Fig. 30.

Step 5. Attach cables to eye bolts using two cable clamps per each cable. NOTE: Secure the clamp u-bolt against the loose end of the cable. See Fig. 30.

Step 6. Using eye bolts, tighten cable to remove slack to where the cable is reasonably snug. Tighten both cables the same. **DO NOT** over tighten. Some adjustments can be made after the auger is completely set up.

Step 7. Adjust the truss support to where it is 90° to the tube. Tighten cable clamps on top of the truss.

---

**65° MODEL SHOWN (59° & 62° ARE SIMILAR)**

<table>
<thead>
<tr>
<th>UNIT</th>
<th>CABLE SIZE</th>
<th>CABLE LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>59' MODELS</td>
<td>40'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>62' MODELS</td>
<td>42'-0&quot;</td>
<td>45'-0&quot;</td>
</tr>
<tr>
<td>65' MODELS</td>
<td>42'-0&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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**FIG. 29**

**FIG. 30**

**EYEBOOLT AND CABLE CLAMP DETAIL**

**TRUSS CABLE**

(See chart for length.)
ASSEMBLY INSTRUCTIONS
TOP & BOTTOM TRUSS FOR 71” MODELS ONLY

Step 1. Loosely bolt the 39 1/2" and 30" long truss sides to the main truss mount using 5/8" x 2" long (grade 5) hex head cap screws with nylon locknuts. See Figures 31 and 32A.

Step 2. Bolt the short cross brace between the 39 1/2" long truss sides using two 3/8" x 1 1/2" long (grade 5) hex head cap screws and nylon locknuts. Bolt the top cross brace between the truss sides and the vertical truss tube using two 3/8" x 1 1/2" long (grade 5) hex head cap screws and nylon locknuts. Bolt the other end of the vertical truss tube to the 30" truss sides using two 3/8" x 1 1/4" long (grade 5) hex head cap screws and nylon locknuts. See Figure 32A. Tighten the hardware holding the truss sides to the truss mount.

Step 3. Loosely bolt 39 1/2" long truss sides to upper truss mount. See Figures 31 and 32B. Bolt the cross braces between the truss sides with 3/8" x 1 1/4" long (grade 5) head cap screws and nylon locknuts. Tighten the hardware holding the truss sides to truss mount.

Fig. 31

Fig. 32A

Fig. 32B
Step 4. Install eyebolts into the six lower cable anchors with eyes toward discharge end of auger. Use two nuts on each eyebolt. See Figure 33A.

Step 5. Before the upper cable anchor/stop can be attached, the undercarriage slide must be installed on the track. See Figure 33B. To accomplish this, 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 undercarriage slide onto the track from the discharge end. Be sure the gate is installed on the track so that it cannot be removed from the track after the cable anchor/stop has been attached.

Step 6. Attach cable anchor/stop to upper end of track. See Figures 31 and 34.

Step 7. Attach truss cables as shown in Figure 31 to six upper cable anchors using two cable clamps per each cable. NOTE: Secure clamp with u-bolt against the loose end of the cable. See also Figure 34.

Step 8. Run the cables over the truss crossbraces, then toward the intake end of the auger. See Figure 31.

**FIG. 33A**

**FIG. 33B**

**FIG. 34**
ASSEMBLY INSTRUCTIONS
TOP & BOTTOM TRUSS FOR 71' MODELS ONLY
TRUSS CABLE RIGGING

Step 9. Attach the cables to the truss sides. On the upper truss, use 3/8" cable clamps to fasten the cables to truss sides. See Figure 34A. On the main truss, use a 3/8" u-bolt and two locknuts to hold two cables to each truss side. See Figure 34B. On the undertruss, use 3/8" cable clamps. See Figure 34C.

IMPORTANT: DO NOT tighten the clamps and u-bolts at this time. The cables must be able to freely slide through the clamps or u-bolts while taking up the slack in step 11.

FIG. 34A

FIG. 34B

FIG. 34C

Step 10. Attach truss cables to eyebolts (from step 4) using two 1/4" cable clamps per each cable. NOTE: Secure clamp with u-bolt against loose end of cable. See Figure 33A.

Step 11. Using eyebolts, tighten cables to remove slack so that cables are reasonably snug. Tighten pairs of cables equally. DO NOT OVERTIGHTEN. Sight down the tube to make sure all sections are straight. Some adjustment can be made after auger is completely set up.

Step 12. Tighten the 3/8" cable clamps and u-bolts holding the cable to the truss sides.
ASSEMBLY INSTRUCTIONS

HUB AND SPINDLE TO UNDERCARRIAGE ASSEMBLY

The 4 bolt hubs, bearings, seals and spindles are assembled at the factory and are pressure packed with grease at that time.

Slide the 4 bolt hub and spindle assembly into the undercarrige axle and secure with 1/2" (grade 5) hex head cap screw and nylon locknut. See Fig. 35.

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 auger end. DO NOT use drive shaft to lift auger. Use a sling completely around auger housing assembly for lifting. Install the undercarrige slide onto the track from the discharge end. Be sure the undercarrige is installed on the track in a manner whereby it cannot be removed from the track after the unit has been installed. See Fig. 36.

UNDERCARRIAGE STOP TO TRACK ASSEMBLY

A stop must be bolted on or near the discharge and of the undercarrige track on all lengths of augers. Use two 1/2" x 1 1/2" long (grade 5) hex head cap screws, lock washers and nuts to secure the stop to the track.

UNDERCARRIAGE SLIDE STOP ASSEMBLY FOR 47" ONLY

On the 47" models only, a stop MUST be bolted on the intake end of the undercarrige track, 20" from the end. Use two 1/2" x 1 1/2" long (grade 5) hex head cap screws, lock washers and nuts. See Fig. 38.

FIG. 35

4 BOLT HUB AND SPINDLE ASSEMBLY

FIG. 36

OUTSIDE EDGE OF UNDERCARRIAGE SLIDE HOUSING

FIG. 37A

UNDERCARRIAGE SLIDE

FIG. 37B

UPPER STOP IS BOLTED TO THE DISCHARGE END OF THE UNDERCARRIAGE TRACK

FIG. 38

INTAKE END OF UNDERCARRIAGE TRACK

LOW RIDER STOP FOR 47P

END OF UNDERCARRIAGE TRACK

22" FOR 53" & 67" MODELS

FOR 53" MODEL

23" FOR 53" & 67" MODELS

FOR 57 MODEL

DISCHARGE

DISCHARGE

02158A1 01053A1 01035A2-C 01025A2-D 01035A2-E A0005622
ASSEMBLY INSTRUCTIONS
LOWER UNDERCARRIAGE ARMS TO AUGER HOUSING ASSEMBLY FOR 33', 41', 47', 53', 59', 62' & 65' MODELS

Lift the auger tube assembly high enough to attach the lower arm of undercarriage to auger housing assembly. Keep undercarriage slide against the upper undercarriage stop by securing temporarily with chain. Bolt the lower arm of the undercarriage to mount welded on lower auger housing, using four 1/2" x 1 1/4" long (grade 5) hex head cap screws and nylon locknuts. See Fig. 39.

**TABLE 39**

<table>
<thead>
<tr>
<th>MODEL SIZE</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>33'</td>
<td>7-1/8&quot; (187)</td>
</tr>
<tr>
<td>41'</td>
<td>8-3/8&quot; (117)</td>
</tr>
<tr>
<td>47'</td>
<td>10-1/2&quot; (129)</td>
</tr>
<tr>
<td>53'</td>
<td>12-1/4&quot; (137)</td>
</tr>
<tr>
<td>59'</td>
<td>14-3/8&quot; (171)</td>
</tr>
<tr>
<td>62'</td>
<td>16-3/8&quot; (191)</td>
</tr>
<tr>
<td>65'</td>
<td>18-3/8&quot; (197)</td>
</tr>
</tbody>
</table>

**IMPORTANT - On 57', 59', 62' & 65' MODELS**
Continue to support the auger with the lifting means after the undercarriage has been attached and until the bottom truss is completely installed and the truss cable is tightened. See Bottom Truss Assembly Instructions on page 33 for 57' & 59' models or page 34 for 62' and 65' models.

**FOR 8" x 71' MODEL**
ONLY
Lift the auger housing assembly high enough to attach the lower arm of undercarriage to auger housing assembly. Keep undercarriage slide against the upper undercarriage stop by securing temporarily with chain. Attach lower arm of undercarriage to auger housing assembly using four 5/8" x 1 1/2" long (grade 5) hex head cap screws and nylon locknuts. See Fig. 40.

**FIG. 39**

**FIG. 40**
BOTTOM TRUSS FOR 57' AND 59' ONLY

Step 1. Install center stand-off support to bottom side of auger housing with a half band using six 5/16" x 1 1/2" long (grade 5) hex head cap screws and nylon locknuts. See Detail A.

Step 2. Attach 1/4" cable to upper anchor. (On 57' model, use 38'-0" long cable and on 59' models, use 40'-0" long cable). Using an overhead knot and one cable clamp, secure the clamp v-bolt against the loose end of the cable. See Detail B.

Step 3. Install eyebolt in lower anchor pipe on undercarriage mount. Use 1/2" flat washer and two nuts. See Detail C.

Step 4. Run cable through pipe on center stand-off and fasten to eyebolt in lower anchor. Secure cable with an overhead knot and one cable clamp, attach the clamp v-bolt against the loose end of the cable.

Step 5. Use eyebolt to tighten cable to remove "slack" from auger assembly. DO NOT over tighten.

Step 6. After truss is tight, the support used to lift the auger can be removed and auger will be able to stand unsupported.

NOTE: Install the cable pulley and clevis assembly to the lower lift cable anchor on the undercarriage track. See Fig. 42.

FIG. 41
(59' MODEL SHOWN 57' SIMILAR)

FIG. 42

CABLE PULLEY AND CLEVIS DETAIL D

1/2" x 2" LONG (GRADE 5) HEX HEAD CAPSCREW IMPORTANT: INSTALL HEX HEAD CAPSCREW SO THE HEAD IS ON THE TOP SIDE OF THE CLEVIS WHEN CLEVIS IS ASSEMBLED ON THE AUGER.

1/2" NYLON LOCKNUT IMPORTANT: USE LOCKNUT AND TIGHTEN SO BUSHING WILL NOT TURN AGAINST THE CLEVIS. TORQUE TO 80 FT.LBS.

010204Z 02556A 013203A2 A0005024
ASSEMBLY INSTRUCTIONS

BOTTOM TRUSS FOR 62' & 65'

Step 1. Install center stand-off support to bottom edge of undercarriage track. See Fig. 42 for center stand-off location.

Use six 5/8" x 1 1/2" long (number 5) hex head cap screws, flat washers, lock washers and nuts to secure center end-off support to undercarriage track. NOTE: Use a flat washer on the top and the bottom of each bolt.

Step 2. Attach bottom three cable to upper anchor. See Detail B. Use an overhand knot and one cable clamp. Secure the clamp u-bolt against the knoe end of the cable.

Step 3. Install eyebolt in lower anchor pipe on undercarriage mount and secure with 1/2" flat washer and two nuts. See Detail C.

Step 4. Run cable through pipe on center stand-off and fasten to eyebolt in lower anchor. Secure cable with an overhand knot and one cable clamp. Attach the clamp u-bolt against the loose end of the cable.

Step 5. Use eyebolt to tighten cable to remove "sag" from auger assembly. DO NOT overtighten.

Step 6. After truss is tight, the support used to let the auger can be removed and auger will be able to stand unsupported.

FIG. 42
ASSEMBLY INSTRUCTIONS

WINCH HANDLE TO WINCH BODY ASSEMBLY

Align slot of handle with flat portion of winch pivot shaft. Use hex nut to hold handle in place and tighten securely. See Fig. 43. For additional winch information, follow the instructions and precautions listed in the materials supplied with the winch from the manufacturer.

LIFT CABLE TO WINCH DRUM ASSEMBLY

On 37, 41, 47, 53, 57, 65, 62 and 65 Models, attach 3/16" lift cable to winch drum so cable will wrap under winch drum, when turning winch handle in clockwise direction.

On 71 Models, attach 1/4" lift cable to winch drum so cable will wrap over winch drum, when turning winch handle in counterclockwise 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 nuts. Be sure that the carriage bolt heads are on the inside of the drum. See Fig. 44.

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 nuts to attach winch to mount. See Fig. 45.

WINCH LOCATION

| MODEL | SIZE | A
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>37</td>
<td>6&quot;</td>
<td>6-7/8</td>
</tr>
<tr>
<td>41</td>
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</tr>
<tr>
<td>71</td>
<td>6&quot;</td>
<td>6-7/8</td>
</tr>
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</table>

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

LIFT CABLE RIGGING

Step 1. Fig the lift cable around the cable pulleys. Different lengths of auger will require different rigging. Use the chart to determine the proper rigging pattern for your model of auger.

Step 2. Install lift cable to undercarriage slide using two 1/4" cable clamps. **NOTE:** Secure the clamps u-bolt against the loose end of the cable.

### CABLE LENGTHS

<table>
<thead>
<tr>
<th>Model</th>
<th>Cable</th>
</tr>
</thead>
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</tr>
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<td>68&quot;</td>
</tr>
<tr>
<td>71&quot;</td>
<td>71&quot;</td>
</tr>
</tbody>
</table>

**FIG. 46**

Anchor cable to undercarriage slide crosstube

Cable anchor at intake end of undercarriage track

NOTE: The 57" and 59" models require a bottom truss. Be sure to run the lift cable through the legs of the center stand-off when routing cable from winch to the undercarriage slide.

Cable pulley assembly at intake end of undercarriage track

Anchor cable to undercarriage slide crosstube

Cable pulley assembly at intake end of undercarriage track on center truss stand-off (62" and 65" only)

Cable wrapped over winch drum for 8" x 71"

Cable wrapped under winch drum for 8" x 62" & 65"
ASSEMBLY INSTRUCTIONS
DIRECT P.T.O. DRIVE ASSEMBLY

NOTE: P.T.O. Drives can be driven from either the right or left hand side of the auger.
ALL ILLUSTRATIONS SHOW GEARBOX IN LEFT DRIVE POSITION.

To change the drive for a right hand drive, turn the gearbox over and bolt the other side to the gearbox mount. The vent plug in the gearbox must be put on the top side of the box. The PTO driveline support is installed on the other side of the auger housing.

Step 1. Attach PTO driveline to gearbox, using 1/4" x 1 1/2" long square drive key.
IMPORTANT! For setscrew to be properly engaged on the gearbox input shaft, the gearbox input shaft MUST be slid into the driveline yoke until the setscrew will sit in flat portion of gearbox input shaft. See Fig. 47. DO NOT extend the gearbox input shaft beyond the inside end of the yoke.

Step 2. Remove 3/8" x 3/4" long (grade 5) hex head capscrews that hold the gearbox shield bracket to the top of the gearbox.

Step 3. Slide input shaft shield over end of PTO driveline, then install the shield and chain bracket onto the gearbox shield bracket. Replace the 3/8" x 3/4" long (grade 5) hex head capscrews and lockwashers.

Step 4. Place the PTO driveline support 46" up the auger housing from center of gearbox and attach in place using a halfband and two 5/16" x 1 1/2" long (grade 5) hex head capscrews and nuts. Be sure support is not installed where it is covering a safety sign. Position PTO driveline support to the auger so that PTO driveline is parallel with the drive shaft cover. See Fig. 49 on page 38.

Step 5. Install retaining pin by slipping the short bent end of pin through hole in PTO driveline support and through slot of other side. Allow long end of pin to rotate down. This will secure pin in place. Set PTO driveline into the support to be sure support is installed properly. See Fig. 49 on page 38.

NOTE: The PTO driveline is equipped with a shear bolt at the auger connection. The shear bolt protects the auger from damage if the auger becomes plugged or subjected to high loads. It is important to use the correct replacement bolt of the proper size and strength to insure that the shear device will protect the auger and operator.

Order replacement shear bolt, Part No. 33046 - 5/16"-18 x 1" long Grade 5 bolt.

01326A1-A
03540A1
A0005629
ASSEMBLY INSTRUCTIONS

DIRECT P.T.O. DRIVE ASSEMBLY - CONT.

IMPORTANT:
DO NOT INSTALL THE SUPPORT WHERE THE BANDS WILL COVER ANY SAFETY SIGNS ON THE AUGER HOUSING.

TOP MOUNTED ELECTRIC MOTOR DRIVE ASSEMBLY

Assemble electric motor mount as shown in Fig. 50. See page 9 in the operating procedure portion of this manual for motor size and motor sheave size. NOTE: Motor sheave is not furnished with drive kit.

2 GROOVE 6" PULLEY
(For 35, 41, 47 & 57. Use a 1/4" x 2" long key)

5/8" x 1" long (grade 5) hex head cap screw with lock washer, flat washer and nut

3/8" x 1" long (grade 5) hex head cap screw with lock washer

3/4" x 1 1/4" long (grade 5) hex head cap screw with lock washer and nut

1/4" x 1 1/2" long (grade 5) hex head cap screw used with a nut

FIG. 49

FIG. 50
ASSEMBLY INSTRUCTIONS

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 in different locations depending on the drive used to power the auger.

Direct PTO Drive - The snap-in bracket is welded to the bottom halfband used to fasten the gearbox mount to the auger housing. See Fig. 49 on page 38.

Top Mounted Electric Drive - The snap-in bracket is welded to the bottom halfband used to fasten the gearbox mount to the auger housing. See Fig. 50 on page 38.

Note: On 41" models the snap-in bracket is welded to a halfband which is mounted to the auger housing 40" from intake end of the auger.

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 and P-2 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 auger housing.

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 shaft first read the Operator's Manual. Failure to read the manual and its safety instructions is a misuse of the equipment.
# PARTS LIST

## SAFETY SIGNS & 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.

![Diagram of safety signs and decals](image)

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>QTY.</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
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<td>CAUTION - GENERAL (On Main Auger Housing)</td>
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<td>DANGER - POWER LINES (On Main Auger Housing)</td>
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<tr>
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<td>1025079</td>
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<td>DANGER - UPENDING HAZARD (On Main Auger Housing)</td>
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<td>1025080</td>
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<td>DANGER - ROTATING DRIVELINE (On Main Auger Housing)</td>
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<td>2</td>
<td>DANGER - ROTATING SHAFT (On Main Auger Housing)</td>
<td>89mm x 168mm</td>
</tr>
</tbody>
</table>

*ONLY USED ON AUGERS WITH OPTIONAL INTERNAL BEARINGS*
PARTS LIST
SAFETY SIGNS AND DECALS

1. !
2. ◀️
3. ▼
4. ◀️
5. ◀️
6. ◀️
# MAIN AUGER COMPONENTS

## ENCLOSED HEAD DRIVE

<table>
<thead>
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<th>REF. NO.</th>
<th>DESCRIPTION</th>
<th>STANDARD DRIVE COMPLETE PART NO.</th>
<th>RATIO 1 TO 1</th>
<th>OPTIONAL REDUCTION DRIVE COMPLETE PART NO.</th>
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*These items are NOT part of the complete assembly. They are sold separately.*
# PARTS LIST

## MAIN AUGER COMPONENTS

NOTE: Auger housing and drive shaft assembly are supplied with the specified drive shaft and drive shaft bearings.

## MAYRATH HOUSINGS

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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## HUTCHINSON HOUSINGS

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A0005836
### MAYRATH HOUSINGS FOR OPTIONAL INTERNAL BEARINGS

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<td>8&quot; Galv. Housing, Upper</td>
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<td>R/PTO and Electric Drive only</td>
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<td>1009799</td>
<td>R/PTO and Electric Drive</td>
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<td>1009802</td>
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<td>1014731-242</td>
<td>10/75 (32'-0&quot; long)</td>
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<td>1014732-252</td>
<td>10/71 (32'-0&quot; long)</td>
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### HUTCHINSON HOUSINGS FOR OPTIONAL INTERNAL BEARINGS

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<td>R/PTO and Electric Drive</td>
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<td>1009805C</td>
<td>8&quot; Galv. Housing, Lower</td>
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**NOTE:** Auger housings shown with drive shaft attached are supplied with the specified drive shaft and drive shaft bearings.
## Main Auger Components

### Auger Flight Sections

**Standard Duty Flight (7 GA. Flight on 1.90" O.D. Tubing)**

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<tr>
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<td>Flight 192&quot; (32.2&quot; long)</td>
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<tr>
<td>18-19</td>
<td>100614</td>
<td>Flight, Upper 641, 47, 53, 57, 59, 62 &amp; 66 (33.4&quot; long)</td>
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<td>19</td>
<td>100615</td>
<td>1977 (150&quot; long)</td>
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<td>100616</td>
<td>Flight, Carrier (includes connecting stub) 171&quot; (20.5&quot; long)</td>
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<tr>
<td>21-28</td>
<td>100617</td>
<td>Flight, Lower (includes connecting stub) 141&quot; (8.3&quot; long)</td>
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<td>22</td>
<td>100618</td>
<td>147&quot; (14.2&quot; long)</td>
</tr>
<tr>
<td>23</td>
<td>100619</td>
<td>155&quot; (20.5&quot; long)</td>
</tr>
<tr>
<td>24</td>
<td>100620</td>
<td>157&quot; (24.3&quot; long)</td>
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<tr>
<td>25</td>
<td>100621</td>
<td>159&quot; (26.5&quot; long)</td>
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<tr>
<td>26</td>
<td>100622</td>
<td>162&quot; (29.5&quot; long)</td>
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<tr>
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<td>100623</td>
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<tr>
<td>28</td>
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### Heavy Duty Flight (1/4" Thick Flight on 1.90" O.D. Tubing)

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<td>19</td>
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<td>171&quot; (10.5&quot; long)</td>
</tr>
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<td>20</td>
<td>100628</td>
<td>Flight, Carrier (includes connecting stub) 141&quot; (33.3&quot; long)</td>
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<td>21-28</td>
<td>100629</td>
<td>Flight, Lower (includes connecting stub) 141&quot; (8.3&quot; long)</td>
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<td>22</td>
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<td>147&quot; (14.2&quot; long)</td>
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<td>23</td>
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### Flight Connecting Components

**For Standard Flight**

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<td>8329A</td>
<td>Connecting Stub (1 1/4&quot; x 9 1/2&quot; long)</td>
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<td>100699</td>
<td>Connecting Bolt 7/16&quot; x 9&quot; long (grade B)</td>
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<td>39</td>
<td>100636</td>
<td>Side Auger Lock Nut 7/16&quot;</td>
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<tr>
<td>40</td>
<td>8330C</td>
<td>Tall Stub 1 1/4&quot; x 7 3/4&quot; long</td>
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**For Optional Internal Bearing Flight**

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<td>42</td>
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<td>Connecting Stub 1 1/4&quot; x 11/2</td>
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<td>1045D</td>
<td>Inspection Hole Cover (small)</td>
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*Note: All parts and specifications are subject to change without notice.*
PARTS LIST

MAIN AUGER COMPONENTS

TOP TRUSS & UNDERTRUSS
FOR 71' MODELS ONLY

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<td>Truss Cable, 1/4&quot; x 43'-0&quot; long</td>
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A0005041
## UNDERCARRIAGE COMPONENTS

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<td>Winch</td>
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### Diagram

- Parts labeled with numbers correspond to the table entries.
- The diagram shows the components and their relative positions for clarity.

---

### Notes

- The table lists various components with their corresponding part numbers and descriptions.
- The diagram visualizes the assembly, with numbers indicating specific parts.

---

### Additional Information

- **Winch**: Refers to a component listed as a part number.
- **Cable Clamp 1/4"**: A part used in the assembly, noted for its specific size.
- **Cotter Pin 1/4" x 2" long**: A small component for assembly security.
- **10 x 4.5 KBO 4-Bolt Wheel**: A wheel component important for the vehicle's undercarriage.
- **Cable Pulleys**: Components essential for the cable system within the undercarriage assembly.

---

### Image Reference

- The image at the bottom of the page offers a visual guide to the component parts, aiding in the understanding of their placement and function.

---

### Legal Information

- The page reference P-12 indicates this is part of a larger document or manual, possibly related to vehicle assembly or maintenance.
## PARTS LIST

**UNDERCARRIAGE COMPONENTS**

**SPINDLE & HUB ASSEMBLIES**

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<tr>
<td>8</td>
<td>Lug Bolt</td>
<td>106241</td>
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<td>9</td>
<td>Washer</td>
<td>106252</td>
<td>106252</td>
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<tr>
<td>10</td>
<td>Slotted Hex Nut</td>
<td>106250 (5/8&quot;)</td>
<td>106250 (5/8&quot;)</td>
<td>106250 (5/8&quot;)</td>
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<tr>
<td>11</td>
<td>Cotter Pin</td>
<td>D1148</td>
<td>D1148</td>
<td>D1148</td>
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<td>12</td>
<td>Hub Cap</td>
<td>106244</td>
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</tr>
</tbody>
</table>

* Furnished with Caps Only.
## PARTS LIST

### DIRECT PTO DRIVE COMPONENTS

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>---</td>
<td>PTO Driveline (See page P-15 for parts breakdown.)</td>
</tr>
<tr>
<td>2</td>
<td>862113</td>
<td>PTO to Gearbox Shield</td>
</tr>
<tr>
<td>3</td>
<td>---</td>
<td>Gearbox (See page P-17 for parts breakdown.)</td>
</tr>
<tr>
<td>---</td>
<td>1001592-1</td>
<td>f/33', 41', 47', 53' &amp; 57'</td>
</tr>
<tr>
<td>---</td>
<td>1006130-1</td>
<td>f/99', 62', 65' &amp; 71'</td>
</tr>
<tr>
<td>4</td>
<td>---</td>
<td>Gearbox Mount</td>
</tr>
<tr>
<td>---</td>
<td>1002716</td>
<td>f/33', 41', 47', 53' &amp; 57'</td>
</tr>
<tr>
<td>---</td>
<td>9525A1</td>
<td>f/41'</td>
</tr>
<tr>
<td>---</td>
<td>842157</td>
<td>f/99', 62', 65' &amp; 71'</td>
</tr>
<tr>
<td>5</td>
<td>---</td>
<td>Halfband w/Manual Container Brkt.</td>
</tr>
<tr>
<td>---</td>
<td>1006005</td>
<td>f/9' x 93', 41', 47', 53' &amp; 57'</td>
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<tr>
<td>---</td>
<td>1006169</td>
<td>f/8' x 59', 62', 65' &amp; 71'</td>
</tr>
<tr>
<td>6</td>
<td>8571C</td>
<td>Square Key 1/4' x 1 1/2' long</td>
</tr>
<tr>
<td>7</td>
<td>1025407</td>
<td>PTO Driveline Support</td>
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<td>8</td>
<td>---</td>
<td>Driveline Support Pin</td>
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<td>9</td>
<td>5003A1</td>
<td>Halfband</td>
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<td>---</td>
<td>---</td>
<td>Manual Container</td>
</tr>
<tr>
<td>10</td>
<td>1025611</td>
<td>Chain Attach Bracket</td>
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</tbody>
</table>
NOTE: Repair parts for PTO drivelines can also be purchased directly from:
Weasler Engineering, Inc.
P.O. Box 558
West Bend, WI 53095

REF. NO  DESCRIPTION
---  PTO Driveline Complete
1  Spring Lock Flange Repair Kit
2  End Yoke
3  U-Joint Cross Repair Kit
4  CE Warning Decal
5  Chain Kit
6  Non-Grating Guard Repair Kit
7  Outer Stay Sign
8  CE Guard Label
9  Outer Guard
10  Inner Guard
11  Safety Sign (not shown)
12  Yoke & Ball Seat Assembly
13  Shear Bolt & Nut Kit (See Note)
14  .375 - 16 x .38 long Setscrew
15  .375 - 16 x .50 long Setscrew

HUTCHINSON/ MAYRATH  HUTCHINSON/ MAYRATH  WEASLER
PART NO.  PART NO.  PART NO.
102-4077  202-21373  102-4077
26-10070  26-110070  26-10070
12061-1000  12061-1000  14121-1010
40015  03-10077  40024
13-14891  13-14891  13-14891
19-15083  19-15083  19-15083
19-15112  19-15112  19-15086
13-10001  13-10001  13-10001
13-15139  13-15139  13-15139
97-21373  97-21373  97-21372
96-21373  96-21373  96-21372
13-10022  13-10022  13-10022
40-50010  40-50010  40-50016
1004778  - -  1004778
33170  11-10215  33170
11-11035  11-11035  11-11035

Note: Shear Bolt Kit includes (6) 5/16" - 18 x 1" long Grade 5 hex bolts and locknuts.

03347A1  A0006645
# TOP MOUNTED ELECTRIC DRIVE COMPONENTS

<table>
<thead>
<tr>
<th>REF.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1001582</td>
<td>Gasblock (See page P-17 for parts breakdown.)</td>
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<tr>
<td></td>
<td>1006130</td>
<td>5/8&quot; x 55, 47, 55, 87 &amp; 87.5&quot;</td>
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<tr>
<td>2</td>
<td>1002718</td>
<td>Gasblock Mount</td>
</tr>
<tr>
<td></td>
<td>842157</td>
<td>5/8&quot; x 55, 92, 65, 67 &amp; 71&quot;</td>
</tr>
<tr>
<td>3</td>
<td>1060035</td>
<td>idler w/Bracket</td>
</tr>
<tr>
<td></td>
<td>1006169</td>
<td>5/8&quot; x 59, 62, 65 &amp; 71&quot;</td>
</tr>
<tr>
<td>4</td>
<td>1003749</td>
<td>Motor/Frame</td>
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<tr>
<td></td>
<td>1003750</td>
<td>5/8&quot; x 59, 62, 65 &amp; 71&quot;</td>
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</tbody>
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<table>
<thead>
<tr>
<th>REF.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>5</td>
<td>1003819</td>
<td>Belt Guard</td>
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<tr>
<td>6</td>
<td>1000703</td>
<td>Belt Guard Bracket</td>
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<tr>
<td>7</td>
<td>1003169</td>
<td>Belt Guard spacer 2H 1/2 - 1&quot; Bore 55/8 x 32, 41, 47, 55 &amp; 87.5&quot;</td>
</tr>
<tr>
<td>8</td>
<td>401376</td>
<td>Aluminum Sheave 2H 1/16&quot; Bore 55/8 x 32, 41, 47 &amp; 55&quot;</td>
</tr>
</tbody>
</table>
| 9    | 401405  | 55/8 x 32, 41, 47, 55 & 87.5"
| 10   | 406614  | Aluminum Sheave 3/8 15 - 1 1/4" Bore 7/8 x 55/8"
| 11   | 100487  | Manual/Container w/Caps |
| 12   | 100496  | Cap 1/Manual Container |

010251-L  A000546
This gearbox is purchased from Weasler. The word "CHINA" will be inscribed on the housing.

The gearbox is purchased from Weasler. The word "CHINA" will be inscribed on the housing.