POLICIES AND PROCEDURES

PRICES: Prices in effect at time of shipment will apply. Price is 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: All orders must be shipped as they become available. Contact Hutchinson/Mayrath Customer Service for alternative shipping options or if cancellation is desired.

BACK ORDERS: 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 delivery. Once notified of concealed shortages Hutchinson/Mayrath will advise corrective action to be taken.

RETURN OF GOODS: All returns must be approved by Hutchinson/Mayrath prior to shipment. All return requests will be issued a return authorization number. No returns will be accepted without a return authorization number and prior authorization from the factory. All returns must be shipped prepaid. A 15% restocking charge will be applied to all returned merchandise. Custom Products may not be returned for credit. Only current products in new and salable condition may be returned. No safety devices may be returned for credit.

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

LIMITED WARRANTY: (a) For a period of (1) year after receipt of goods by the original consumer buyer, Hutchinson/Mayrath will supply free of charge replacement parts for parts that prove defective in workmanship or material. Defective parts must be returned freight prepaid. (b) This limited warranty does not extend to parts designed to wear in normal operation and be replaced periodically; or to damage caused by negligence, accident, abuse or improper installation or operation. (c) GOODS NOT MANUFACTURED BY HUTCHINSON/MAYRATH CARRY ONLY THE MANUFACTURER’S WARRANTY. (d) THIS UNDERTAKING IS IN LIEU OF ALL OTHER WARRANTIES, EXPLICIT 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) 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 HAVE LIABILITY FOR DIRECT DAMAGES IN EXCESS OF THE CONTRACT PRICE OF THE GOODS IN RESPECT OF WHICH CLAIM IS MADE. BUYER FURTHER AGREES THAT IN NO EVENT SHALL HUTCHINSON/MAYRATH ON ANY CLAIM OF ANY KIND HAVE LIABILITY FOR LOSS OF USE, LOSS OF PROFITS, OR FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.
GENERAL SAFETY STATEMENT

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

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

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

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

SAFETY ALERT SYMBOL

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

BE ALERT! YOUR SAFETY IS INVOLVED.

WARNING

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

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

1. Some regulations specify that no one under the age of 16 may operate power machinery. This includes augers. It is your responsibility to know what these regulations are in your own area or situation.

2. Current OSHA regulations state in part: "At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved."*

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

4. A person who has not read and understood all operating and safety instructions is not qualified to operate the auger system.

*Federal Occupation Safety & Health Standards for Agriculture Subpart D, Section 1928.57(a)(8).

SIGN OFF SHEET

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

<table>
<thead>
<tr>
<th>DATE</th>
<th>EMPLOYER SIGNATURE</th>
<th>EMPLOYEE SIGNATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

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SAFETY DECALS

Check components as specified below to ensure 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 dealer.

DANGER Sign No. 1002303 was supplied with Hutchinson bin unloading equipment. This safety sign should be applied to the side of the bin near the bin opening, so it will be viewed by people entering into the bin or storage building.

"DANGER" Decal 4-1/2" x 6-1/4"
Part No. 1001985

"CAUTION" Decal
Part No. 1002301
WORK AREA SAFETY AND DIAGRAMS

The diagram below will show the manufacturers designated work areas. These areas shall be marked off with colored nylon or plastic rope hung as portable barriers to define the designated work areas.

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 clean and free of all debris and tools which might cause accidental tripping and/or falling. It shall also be their responsibility to keep the work area clean and orderly during the operation.
ELECTRIC MOTOR DRIVE AUGERS

Always use a motor with required H.P. suggested in the Horsepower Recommendations section. Use motor that operates at 1750 R.P.M. Motor pulleys are not furnished with the auger.

POWER SOURCE

1. 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.

2. 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 a manual reset.

A main power disconnect switch capable of being locked only in the OFF position shall be provided. This shall be locked whenever work is being done on the auger.

Reset and motor starting controls must be located so that the operator has full view of the entire operation.

LOCKOUT

A main power disconnect switch capable of being locked only in the OFF position shall be provided. This shall be locked whenever work is being done on the auger.

HORSEPOWER RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>Horsepower needed when connected to average size standard unloading system</th>
<th>Horsepower needed when connected to average size standard unloading system</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>HP LENGTH</td>
<td>HP LENGTH</td>
</tr>
<tr>
<td>Use 3.5 Motor Pulley with 12&quot; Driven Pulley Auger Speed 650 RPM</td>
<td>3 HP 20'-30'</td>
<td>5 20'-30'</td>
</tr>
<tr>
<td></td>
<td>5 HP 31'-50'</td>
<td>7 1/2 31'-50'</td>
</tr>
<tr>
<td>8&quot;</td>
<td>Use 4.5 Motor Pulley with 15&quot; Driven Pulley Auger Speed 520 RPM</td>
<td>5 HP 20'-35'</td>
</tr>
<tr>
<td></td>
<td>7 1/2 36'-50'</td>
<td>10 31'-50'</td>
</tr>
<tr>
<td>10&quot;</td>
<td>Use 4.2 Motor Pulley with 15&quot; Driven Pulley Auger Speed 490 RPM</td>
<td>7 1/2 20'-30'</td>
</tr>
<tr>
<td></td>
<td>10 31'-40'</td>
<td>20 31'-50'</td>
</tr>
<tr>
<td></td>
<td>15 41'-50'</td>
<td></td>
</tr>
</tbody>
</table>

*Length indicated the length of Lowboy Auger.

NOTE: For Lowboy lengths over 50' long, consult the factory for horsepower and drive information.
START-UP AND BREAK-IN

Before operating the unit add #90 weight non-floating oil to the gearbox until it is half full. Check to see that belts are tensioned properly. Make sure all shields are in place and properly adjusted for belt and pulley clearance. Check the assembly instructions to see that all parts are assembled correctly. During the initial start-up and break-in period, the operator shall note any unusual vibrations or noises and take appropriate action. The bin well inside the bin should have a control gate. The controls for the control gate will either pull or push to open, depending on the type of well. The gate should be closed before start-up and closed before shut-down to permit the machine to clean out. Use the control gate to regulate a flow of less than full capacity until several hundred bushels of grain have been augered to polish the fighting assembly and tube.

Any screw conveyor when it is new or after it sets idle for a season should go through a “break-in” period. Augers should be run at partial capacity until the screw becomes polished and smooth before attempting full capacity. A failure will most likely occur when run full before it has “polished up.” It is recommended that several hundred bushels of grain be augered at partial capacity.

Never operate augers empty for any length of time as excessive wear will result. If at all possible, do not stop or start augers under load, especially before the flight and tube become well polished, as this may cause the auger to “freeze-up.” Continue to use the control gate as a flow control so the Lowboy Auger does not become plugged.

FULL LOAD OPERATION

During the regular operation of your equipment, one person shall be in a position to monitor the operation. It is also good practice to visually inspect the system periodically during the actual operation. Be alert for unusual vibrations, noises and the loosening of any fasteners.

⚠️ Observe work area restrictions. (See work area diagram.)

SHUTDOWN

A. NORMAL SHUTDOWN

Make certain the bin well control gates and the Lowboy Auger are empty before stopping the unit. Before the operator leaves the work area the power source shall be locked out. See page 5.

B. INTERMITTENT OPERATION SHUTDOWN

Consideration should be given to the proper size auger for a batch drying, or any intermittent type operations. When augers are stopped and restarted under full load, it may result in damage to the auger. Using a larger diameter auger and reducing its load level will be far better than subjecting a smaller diameter auger to high loads. If an auger is kept from absolute filling, it will make start-up easier and convey more efficiently.

In situations where an auger will be pressure-fed at the intake end it is advisable to use a device for restricting the flow. This will keep the tube from filling so full that it tends to “jam” the fighting. Examples of these situations where over-filling can occur: formed hopper pits under storage bins; dump pit to wet holding tank; bulk (hopper bottom) tank unloading. Slide gates and intake control gates can be used in the pressure are.

C. EMERGENCY SHUTDOWN

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

For efficient and safe operation, be aware of all the adjustments and checks which should be performed.

2. Starting the unit under load may result in damage to the auger. Such damage is considered abuse of the equipment.

3. Should the auger by immediately shut down under load -- disconnect and lockout the power source. Clear as much grain from hopper and auger as you can before attempting a restart.

⚠️ Whenever you must service or adjust your equipment, make sure you stop motor and lock out your power source!
LUBRICATION AND MAINTENANCE

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

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

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

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.

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 DP (non-foaming) oil until the level of the oil reaches the check port.

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

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

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

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

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

⚠️ KEEP ALL SAFETY SHIELDS AND DEVICES IN PLACE.
TROUBLE SHOOTING

LOWBOY CAPACITY

The auger may not be getting enough grain. Check to see that the bin well control gate is sufficiently open. Check auger speed. Refer to page 6. 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. Adjust control gate of bin well to decrease amount of grain being fed into auger.

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.

Check to see if belts are lined up and tensioned properly.

EXCESSIVE AUGER NOISE

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

IMPORTANT:

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

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

A0001374
ASSEMBLY INSTRUCTIONS

Choose an area of open ground where the auger may be laid out full length. If more than one section of auger housing will be used, lay the different sections in their approximate positions.

Lowboy units over 30' long will have a head tube section and an extension tube section. Fasten the flight section together with hex head capscrews and nuts. (See chart for bolt size.) Then connect the head tube section flange to extension tube section flange with hex head capscrews and locknuts. (See chart for bolt size.)

<table>
<thead>
<tr>
<th>UNIT</th>
<th>FLIGHT CONNECTION BOLTS</th>
<th>TUBE SECTION FLANGE BOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>(6) 5/16&quot; x 3/4&quot; HHCS</td>
<td>(4) 3/8&quot; x 1 3/4&quot; HHCS</td>
</tr>
<tr>
<td>8&quot;</td>
<td>(8) 5/16&quot; x 3/4&quot; HHCS</td>
<td>(4) 7/16&quot; x 2 1/2&quot; HHCS</td>
</tr>
<tr>
<td>10&quot;</td>
<td>(8) 5/8&quot; x 1&quot; HHCS</td>
<td>(4) 1/2&quot; x 3 3/4&quot; HHCS</td>
</tr>
</tbody>
</table>

GEARBOX ASSEMBLY

NOTE: If an optional drive shaft extension kit is to be installed, do it at this time. See instructions provided with the drive shaft kit.

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 60 EP (non-foaming) oil until the gearbox is half full.

Attach gearbox to band-on mount with four 3/8" x 3/4" hex head capscrews and lockwashers.

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

Secure gearbox mount to auger using halfband and four 5/16" x 1 1/2" hex head capscrews and locknuts.

Attach the drive shaft cover bracket to top of gearbox with two 3/8" x 3/4" hex head capscrews with lockwashers.

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DRIVE SHAFT COVERS

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. 1 on Page 9. Begin at the intake end of unit. Work up the unit, overlapping covers at each bearing stand.

TO INSTALL TWO-PIECE DRIVE SHAFT COVER

There is a special two piece section of drive shaft cover that installs between the gearbox and the first bearing stand. It telescopes together to vary in length. This telescoping cover consists of a standard piece that telescopes into a special piece of cover with retaining bottom edges. Center the slots in the covers over the hole in the mounting bracket. Place 1" O.D. flat washer over the slot in the cover and drive the self tapping slotted hex head screw through the hole in the mounting bracket. Tighten the metal screw down to the flat washer and cover. DO NOT over tighten and strip out the hole in the mounting bracket. See Fig. 3.

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. 3.

FIG. 3
ELECTRIC MOTOR DRIVE ASSEMBLY

Assemble electric motor mount as shown in Fig. 4. See page 5 in the Operating Procedure portion of this manual for motor size and motor sheave size.

FIG. 4

6" MODELS ONLY
2" WIDE HALF BAND
(Use 5/16" x 1 1/2" Bolts to fasten Halfband to Belt Guard Bracket.)
OPTIONAL UNDERCARRIAGE ASSEMBLY

Assemble the undercarriage as shown in Fig. 5. Bolt undercarriage to auger at about the center of the auger with 5/16" x 1 1/2" bolts and nuts.

NOTE: It may be necessary to remove a metal drive shaft cover to install undercarriage. BE SURE cover is replaced after undercarriage is attached.

FIG. 5

LOWBOY AUGER TO UNLOADING TUBE ASSEMBLY

Attach flight of the auger assembly to the bin unloading flight using bolts recommended.

6' One 5/16" x 1 1/2" and one 3/8" x 1 3/4" long black hardened bolt and lock nut.
8' Four 7/16" x 2 1/2" long black hardened bolts and locknuts.
10' Four 1/2" x 3 1/4" long black hardened bolts and locknuts.

Slide unloading flight into unloading tube. Attach the auger to the unloading tube flange using 5/16" x 3/4" bolts, lock washers and nuts. Adjust the undercarriage to support the auger at a level equal to the power sweep unloaders.

POWER SWEEP APPLICATIONS

(Requires optional adapter connecting stub.)

The lowboy augers can be attached to power sweep units, by installing a square to round adapter connecting stub into the end of the auger flight.

Attach the lowboy auger to the unloading tube and flight. The square stub slips into the flight shaft of the unload auger and the housing flanges of the auger and unloader bolt together. Adjust the undercarriage to support the auger at a level equal to the power sweep unloader.
LOWBOY UNLOADING AUGER
PARTS LIST

SEE PAGE P-3 FOR ELECTRIC DRIVE COMPONENTS

TYP. BEARING STAND

---

A ENCLOSED HEAD DRIVE ASSEMBLIES

6" ENCLOSED DRIVE
COMPLETE ASSEMBLY NO. 1006251
RATIO 1 TO 1.27

---

1 5262A1 "90°" 6312L "90°" Lowboy Auger to Bin Unloading Right
2 5262A1 "90°" 1722C "90°" Lowboy Auger Head Section to Lowboy Extension Section
3 526255 "90°" 8303A "90°"
4 526251 "90°" 2131C "90°"
5 525064-1 Drive Shaft Cover - 5 5/8" long
6 525064-1 Drive Shaft Cover - 5 5/8" long
7 525064-1 Drive Shaft Cover - 0" long
8 525064-1 Drive Shaft Cover - 1 1/4" long
9 525064-1 w/Bearing Cap on Bottom
10 6382C Drive Shaft Bearing
11 5403B Flange & Bearing
12 54894 Drive Shaft Cover Mounting Clip

---

A ENCLOSED HEAD DRIVE ASSEMBLIES

---

1 638290-1 Aluminum Casting
2 638081-1 Aluminum Casting - Cover
3 1006253 4 60 Roller Chain - 32 pitch
4 630088 Gasot
5 842065 3/8" Plug - Vented
6 85174 1" Bearing Cone
7 835174-1 1" Bearing Cone (Timken No. 07100)
8 835049-1 1 1/4" Bore Sprocket - 15 teeth
9 1005-160 Stud Shaft 1 1/4" x 8 1/4"
10 550628 Stud Shaft 8 1/4" x 8 1/4"
11 835176-1 1" Bore Sprocket - 19 teeth
12 32046 5/16" x 1 1/4" IHCS
13 32041 5/16" Lockwasher
14 32023 3/8" x 2 1/2" Roll Pin
15 835169 Screw Shaft Seal - 1"
16 835169 Drive Shaft Seal - 1"
17 402341 Key
18 842093 Drain Plug - 1/4"
19 835175 1" Bearing Cup (Timken No. 07204)
20 835175 1" Bearing Cup (Timken No. 07204)
21 3422 1" Bearing Spacer
22 1001438 3/8" Pipe Plug
23 550630 Drive Shaft Mounting Clip
24 53183 Self-Tapping Screw
25 1002282 4" Long Coupler
26 835176-1 Key 1 1/4" x 1 1/2"
27 1001151 Decal - Notice Oil Level

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

ENCLOSED HEAD DRIVE ASSEMBLIES - CONT.

REF NO. | PART NO. | DESCRIPTION
--- | --- | ---
1 | 1001459 | Aluminum Casting
2 | 840203-2 | Aluminum Casting - Cover
3 | 842054 | #60 Roller Chain - 36 pitch
4 | 842036 | Gasket
5 | 468026 | 3/8" Plug
6 | 830174 | 1" Bearing Cone
   (Timken No. 07100)
7 | 106322 | 1 1/4" Bearing Cone
   (Timken No. 15123)
8 | 40039 | 1 1/4" Bore Sprocket - 19 tooth
9 | 553629 | Stub Shaft 1 1/4"
10 | 539028 | Stub Shaft 1"
11 | 855176-1 | 1" Bore Sprocket - 19 tooth
12 | 33046 | 5/16" x 1" HHCS
13 | 33144 | 5/16" Lockwasher
14 | 03200 | 5/8" x 2 1/2" flat Pin
15 | 855169 | Screw Shaft Seal - 1 1/4"
16 | 836169 | Drive Shaft Seal - 1 1/4"
17 | 4020A1 | Key
18 | 842963 | Drain Plug - 1/4"
19 | 836175 | 1" Bearing Cup
   (Timken No. 07204)
20 | 106323 | 1 1/4" Bearing Cup
   (Timken No. 15245)
21 | 4542 | 1" Bearing Spacer
22 | 1001438 | 3/8" Pipe Plug (Vented)
23 | *553630 | Drive Shaft Mounting Clip
24 | *33143 | Self-Taping Screw
25 | *1002392 | 4" Long Coupler
26 | *8371C | Key 1/4" x 1/2"
27 | 1001311 | Decal - Notice Oil Level

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

REF NO. | PART NO. | DESCRIPTION
--- | --- | ---
1 | 1001563 | Aluminum Casting
2 | 1001532 | Aluminum Casting - Cover
3 | 41380 | #60 Roller Chain - 34 Pitch
4 | 1001573 | Gasket
5 | 468026 | 3/8" Plug
6 | 106322 | 1 1/4" Bearing Cone
   (Timken No. 15123)
7 | 035439 | 1 1/2" Bearing Cone
   (Timken No. L68949)
8 | 1001576 | 1 1/2" Bore Sprocket - 17 tooth
9 | 1001574 | Stub Output Shaft - 1 1/2"
10 | 1001575 | Stub Input Shaft 1 1/4"
11 | 1002599 | 1 1/4" Bore Sprocket - 17 tooth
12 | 4727-1 | 5/16" x 1 1/4" HHCS
13 | 33144 | 5/16" Lockwasher
14 | 03190 | 5/8" x 2 1/2" Flat Pin
15 | 035860 | Output Shaft Seal - 1 1/2"
16 | 835166 | Input Shaft Seal - 1 1/4"
17A | 4020A1 | Square Key 1/4" x 1"
17B | 1002276 | Square Key 3/8" x 1"
18 | 459025 | Drain Plug - 3/8"
19 | 106323 | 1 1/4" Bearing Cup
   (Timken No. 15245)
20 | 035440 | 1 1/2" Bearing Cup
   (Timken No. L68949)
21 | 1001438 | 3/8" Pipe Plug (Vented plug)
22 | *553630 | Drive Shaft Mounting Clip
23 | *33143 | Self-Taping Screw
24 | *1002392 | 4" Long Coupler
25 | *8371C | Key 1/4" x 1/2"
26 | *1001311 | Decal - Notice Oil Level

01885A1 A0001380
B GEARBOX COMPONENTS FOR GEARBOX 1001592

This gearbox is purchased from NECO. The word "NECO" is in raised letters on the housing.

B GEARBOX COMPONENTS FOR GEARBOX 1006130

The gearbox is purchased from NECO. The word "NECO" is in raised letters on the housing.
**# B GEARBOX COMPONENTS FOR GEARBOX 1001592-1**

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

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**# B GEARBOX COMPONENTS FOR GEARBOX 1006130-1**

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

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1/03 0311A1 0001383
### OPTIONAL UNDECARRIAGE COMPONENTS

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1/02  0801A1-A  A004817