10” ROOF AUGERS

OWNER’S & OPERATOR’S MANUAL

Effective September 26, 2024 **Publication No. 1034913**

MODEL NO’S.

10” ROOF AUGERS W/CLAMP-ON HOPPER

A10110RA
A10160RA
A10210RA
A10270RA

10” ROOF AUGERS W/RECEIVER HOPPER

A101750RB
A102250RB
A102750RB

AGI HUTCHINSON

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GENERAL SAFETY STATEMENT

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

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

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

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

SAFETY ALERT SYMBOL

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

BE ALERT! YOUR SAFETY IS INVOLVED.

WARNING

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

TABLE OF CONTENTS

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 means of contact. The serial number plate is located on the incline tube.

Right and Left Designation

When referencing the left, right, front or rear of the unit, it is always determined by standing at the inlet end of the auger and looking towards the discharge end.

OPERATOR QUALIFICATIONS

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

1. Some regulations specify that no one under the age of 16 may operate power machinery. This includes 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 machine.

***Federal Occupational Safety & Health Standards for Agriculture Subpart D, Section 1928.57 (a)(6).**

SIGN OFF SHEET

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

DATE	EMPLOYER SIGNATURE	EMPLOYEE SIGNATURE

MACHINE INSPECTION

After delivery of your new auger and/or completion of assembly and before each use, inspection of the machine is mandatory. This inspection should include, but not be limited to:

1. Check to see that all guards listed in the assembly instructions are in place and secured and functional.
2. Check all safety signs and replace any that are worn, missing or illegible. They are listed in the parts section. Safety signs may be obtained from your Dealer or ordered from the factory.
3. Are all fasteners tight?

DESIGNATED WORK AREA

Before starting the auger, a designated work area should be established around it.

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 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.

OPERATING INSTRUCTIONS

A roof auger is designed for permanent installation on the roof of a bin. The intake lies over the eave of the bin. The inlet hopper has a hinged lid that can be opened from the ground. The roof auger must be securely anchored.

Make certain everyone is clear before operating the machine.

ELECTRIC MOTOR DRIVES

Always use a motor with required H.P. suggested in the chart on page 5. Use a 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.

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.

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

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 Horizontal Bin Unloading Auger.

The horsepower recommendations are based on clean, dry shelled corn or wheat. High moisture grain (above 15%) will require greater power. The maximum possible capacity will be less with high moisture grain than with dry grain. Use chart on next page to determine size of motor required.

OPERATING INSTRUCTIONS - CONT.

ELECTRIC MOTOR DRIVES - CONT.

HORSEPOWER REQUIREMENT

Auger Length	11'	16'	17'	21'	22'	27'
Electric Motor	3 h.p.	5 h.p.	5 h.p.	5 h.p.	5 h.p.	7.5 h.p.

For higher moisture grain (up to 25%) the next larger motor may be used as a maximum.

FLIGHT SPEED INFORMATION

Proper auger flight speed is important for efficient operation of the auger.

1. If flight speed is too fast, excessive wear will result (See chart below).
2. If flight speed is too 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. Control the amount of grain fed into the auger inlet.

WARNING
Disconnect power before resetting motor overloads.
Make certain electric motor is grounded.

Model	*Motor Pulley Dia.	Drive Pulley Dia.	Recomm. Auger Speed	Max. Auger Speed	Min. Auger Speed
10" Roof Auger	3.0"	15"	350 rpm	450 rpm	300 rpm

***Motor pulleys are not furnished with the auger**

OPERATING CAPACITIES

The results or capabilities of screw conveyors or augers can vary greatly under varying conditions. Different materials, moisture content, amount of foreign matter, methods of feeding, and speed all play a role in the performance of the auger. Twenty-five percent (25%) moisture could cut capacity back by as much as 40% under some conditions.

BREAK-IN INFORMATION

Any screw type auger 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 the screw becomes polished and smooth before attempting full capacity. A failure will most likely occur when run full before it is polished up. It is recommended that several hundred bushels of grain be augered at partial capacity.

Never operate the auger when empty for any length of time, as excessive wear will result. If at all possible, do not stop or start the auger under load, especially before the flight and tube become well polished, as this may cause the auger to "freeze-up".

WARNING
During the initial start–up and the break–in period, the operator shall note any unusual vibrations or noises.
Keep all safety shields and devices in place.
Keep hands, feet and clothing away from moving parts.

OPERATING INSTRUCTIONS - CONT.

START-UP

It is important to be familiar with the following routine operation procedures before attempting start-up.

During the operation of the auger, one person shall be in a position to monitor the operation. Inspect the drive before adding power and know how to shut down in an emergency (See “Shut Down/Lockout”).

Visually inspect the auger periodically during operation. For efficient and safe operation, be aware of all the adjustments and checks which should be performed.

CAUTION

Make certain everyone is clear before operating the equipment.

The operator shall be aware of any unusual vibrations, noise and the loosening of any fasteners.

Keep all safety shields and devices in place.

Keep hands, feet and clothing away from moving parts.

Shut off and lockout power to adjust, service or clean.

Observe work area restrictions.

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

FULL LOAD OPERATION

To Start Auger:

1. Start electric motor before conveying grain.

To Stop Auger:

1. Allow the auger to empty before stopping.
2. Shut off electric motor and lockout power source.

SHUTDOWN

Normal Shutdown

Permit the auger to clean out before stopping the unit. Before the operator leaves the work area, the power source shall be locked out.

Emergency Shutdown

Should the auger be immediately shutdown under load, disconnect and lockout the power source.

Reconnect power source and clear auger gradually.

Note: Starting the unit under load may result in damage to the auger. Such damage is considered abuse of the equipment and is not covered under warranty.

LOCKOUT

The power source shall have a main disconnect box that can be locked only in the “Off” position. This is what “shutdown and lockout” refers to, shut off main power source and lock the handle or breaker switch in the “Off” position.

WARNING

If the operator must leave the work area, or whenever servicing or adjusting, the auger must be stopped and power source turned off and locked out.

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

OPERATING INSTRUCTIONS - CONT.

CLEAN-UP

1. Check to see that all safety guards and devices listed in the assembly instructions are in place, secured and functional.
2. Check all safety signs and decals. Replace any that are worn, missing or illegible. The safety signs are listed in the parts section of this manual. Safety signs can be obtained free of charge from your dealer or directly from the factory.
3. Check all fasteners and hardware to ensure they are tight.
4. Check electrical cords and connections.
5. Ensure drive belts are in good shape and tightened properly.

TROUBLE SHOOTING

Auger Vibration

Drive belts may be have been overtightened and are putting the head stub and flight in a bind. There should be approximately 1/2" of deflection when belts are firmly pressed in the center of the span. Damage can occur to the auger flighting, thus causing the noise.

Damage usually occurs because of foreign material having been run through the auger. It may be necessary to remove the flighting for inspection.

Low Capacity

The auger may not be getting enough grain. Check to make sure the intake has not bridged over restricting flow. The exposed flighting at the auger intake should be covered with grain to achieve maximum capacity.

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

Auger Plugs

The auger may be getting too much grain causing "jamming" inside the housing.

The motor may be too small or wired improperly (See horsepower recommendations on Page 5).

If wet grain or other hard–to–move material is being augered, use a larger size motor than recommended for normal use (See footnote to horsepower chart on Page 5).

Is the auger free of foreign material such as sacks, tarp corners, etc.? A plug at the discharge end will cause the auger to become plugged at the intake end.

ASSEMBLY INSTRUCTIONS

10" x 11', 16', 21' & 27' ROOF AUGERS w/CLAMP-ON HOPPER

The instructions below show a reference number in parenthesis ( ), this number refers to the item shown in the assembly illustration. It is recommended to read through the instructions first, before attempting assembly. This will help you become familiar with the procedures as well as what tools and/or materials may be needed.

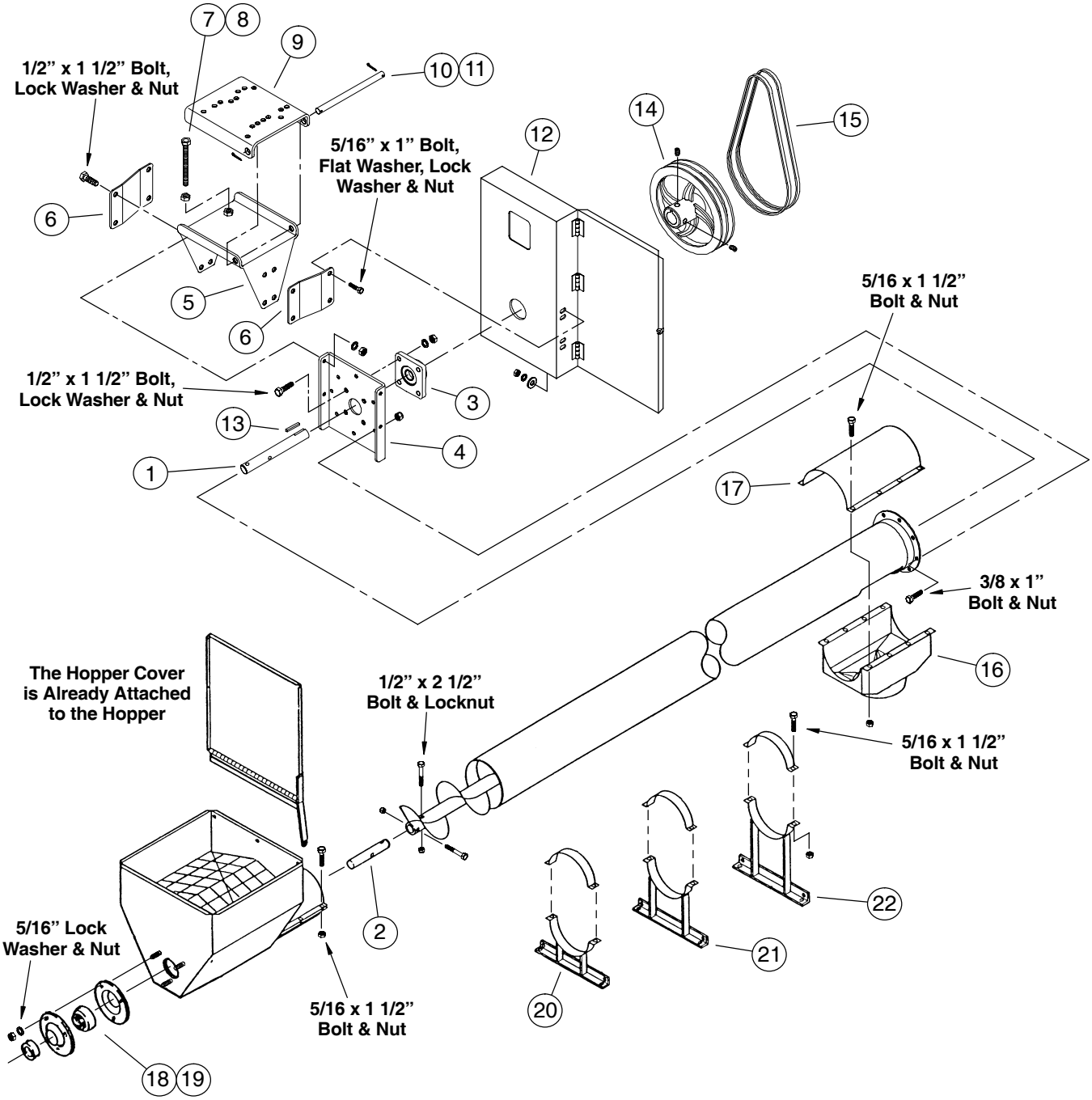
Assembly is the same for all roof auger models outlined in this manual.

1. Bolt the 10 1/2" long head shaft (1) into the discharge end of the flight and secure using two 1/2" x 2 1/2" bolts and locknuts.
2. Bolt the 9 1/2" long intake stub (2) into the intake end of the flight and secure using two 1/2" x 2 1/2" bolts and locknuts.
3. Attach the four-hole flanged bearing (3) to the head plate (4) as shown in the illustration on Page 9. Secure the bearing using four 1/2" x 1 1/2" bolts, lock washers and nuts (the bolt heads will be on the inside of the plate, the angles on the plate will face towards the hopper end of the auger).

   Slide the bearing and plate onto the head shaft (1) and secure the head plate to the housing flange using eight 3/8" x 1" bolts and nylon locknuts. Tighten bearing lock collar (tighten by rotating collar until it seats on bearing ring, then lightly tap collar in the direction of shaft rotation to lock collar in place, tighten setscrew).
4. Fasten the discharge spout (16) over the discharge opening as shown on Page 9. Secure using the back band (17) and eight 5/16" x 1 1/2" bolts and non-lock nuts.
5. Remove lock collar from tail bearing and attach the tail bearing (18) and flangettes (19) to the back of the hopper and secure using three 5/16" lock washers and non-lock nuts (the bolts are already welded to the hopper).
6. Slide the hopper assembly onto the end of the flight and housing while guiding the flight stub through the tail bearing. With the hopper securely against the end of the auger housing use three 5/16" x 1 1/2" bolts and non-lock nuts to clamp the hopper tube to the auger housing. Reinstall and tighten the lock collar and setscrew to lock into place.
7. Attach the motor mount support plate (5) and belt guard brackets (6) to the sides of the head plate (4) using four 1/2" x 1 1/2" bolts, lock washers and non-lock nuts (the guard brackets will be positioned on the outside of the support plate, use the back set of holes in the support plate for mounting).
8. Thread a 3/4" nut (7) onto the threaded adjustment rod (8) until the nut contacts the head of the rod. Install the rod into the nut welded to the support plate until the rod is all the way down.
9. Attach the motor mount (9) to the support plate using the 3/4" dia. x 14 5/8" pivot pin (10) and cotter pins (11).
10. Attach the belt guard (12) to the brackets previously installed on the support plate. Use four 5/16" x 1" bolts, flat washers, lock washers and non-lock nuts to attach the guard to the brackets (use the top set of slotted holes in the guard when mounting).
11. Install the 3/8" x 3" key (13) into the keyway on the end of the head shaft. Slide the sheave (14) onto the shaft until it is as close as possible to the head bearing lock collar without actually contacting the collar. Tighten the setscrews to secure sheave in place.
12. Use the chart on Page 12 to determine the mounting location for the electric motor **(the motor pulley, motor and its mounting hardware are not furnished).** Install the motor and pulley and align the pulley and sheave by placing a straight edge along the face of each. Install the belts (15) and using the threaded adjustment rod, tighten the belts. Once belts are tight, use the 3/4" nut to lock the adjustment rod into place (belts should have approximately 1/2" of deflection when firmly pressed at the center of the span).
13. Use the roof auger mounting brackets (20, 21 & 22) to secure the auger assembly to the bin roof. Secure the brackets to the auger using the half bands and 5/16" x 1 1/2" bolts and non-lock nuts. Space the brackets equally along the length of the auger.

ASSEMBLY INSTRUCTIONS - CONT.

10" x 11', 16', 21' & 27' ROOF AUGERS w/CLAMP-ON HOPPER



ASSEMBLY INSTRUCTIONS

10" x 17', 22' & 27' ROOF AUGERS w/RECEIVING HOPPER

The instructions below show a reference number in parenthesis ( ), this number refers to the item shown in the illustration on Page 11. It is recommended to read through the instructions first, before attempting assembly. This will help you become familiar with the procedures as well as what tools and/or materials may be needed.

1. Bolt the 10 1/2" long head shaft (1) into the discharge end of the flight and secure using two 1/2" x 2 1/2" bolts and locknuts.
2. Bolt the 9 1/2" long intake stub (2) into the intake end of the flight and secure using two 1/2" x 2 1/2" bolts and locknuts.
3. Attach the four-hole flanged bearing (3) to the head plate (4) as shown in the illustration on Page 9. Secure the bearing using four 1/2" x 1 1/2" bolts, lock washers and nuts (the bolt heads will be on the inside of the plate, the angles on the plate will face towards the hopper end of the auger).

   Slide the bearing and plate onto the head shaft (1) and secure the head plate to the housing flange using eight 3/8" x 1" bolts and nylon locknuts. Tighten bearing lock collar (tighten by rotating collar until it seats on bearing ring, then lightly tap collar in the direction of shaft rotation to lock collar in place, tighten setscrew).
4. Fasten the discharge spout (16) over the discharge opening as shown on Page 9. Secure using the back band (17) and eight 5/16" x 1 1/2" bolts and non-lock nuts.
5. Attach the four-hole flanged tail bearing (18) to the back of the hopper and secure using four 1/2" x 1 1/2" bolts and nylon locknuts (the bolts will be inserted from inside the hopper).
6. Loosely attach the connecting band (19) to the hopper tube. Slide the hopper assembly onto the end of the flight and housing while guiding the flight stub through the tail bearing. With the hopper securely against the end of the auger housing tighten the connecting band bolts to secure the hopper tube to the auger housing. **Tighten each of the connecting band bolts to 25 ft. lbs. making sure each one has been tightened.**

   IMPORTANT! Once connecting band bolts are tight, recheck all previously tightened bolts to verify they are tight. Even though they were tight when they were initially torqued, the previously tightened bolt will still have a tendency to become loose as the next bolt to it is tightened and so on. Recheck, tighten and recheck again to verify they are tight.

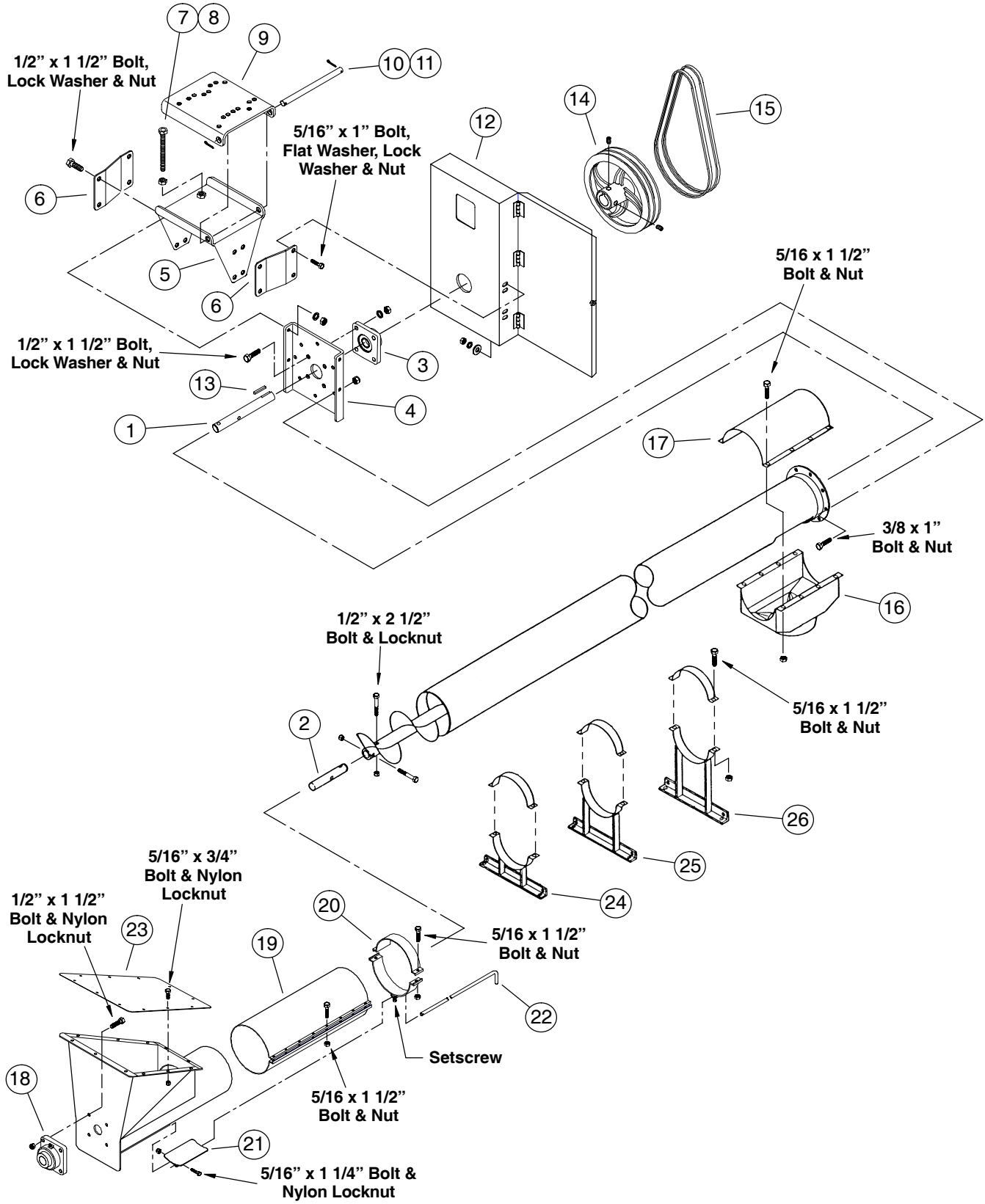
   Tighten the lock collar and setscrew on the tail bearing.
7 Loosely attach the 2" wide half band (21) to the front side of the connecting band with the short piece of pipe and setscrew positioned on the bottom (See Page 11). Insert the clean-out gate (22) into the track on the bottom side of the hopper tube. Insert the 44" long control rod through the short piece of pipe on the 2" wide half band and attach the end of the rod to the clean-out gate using one 5/16" x 1 1/4" bolt and nylon nut.

   Position the half band so that when the clean-out gate is completely closed, the control rod extends about 6" past the half band. Make sure the clean-out gate opens and closes smoothly and secure half band. Tighten the setscrew to lock the control rod into place.
8. Install the hopper cover using eleven 5/16" x 3/4" bolts and nylon locknuts.
9. Attach the motor mount support plate (5) and belt guard brackets (6) to the sides of the head plate (4) using four 1/2" x 1 1/2" bolts, lock washers and non-lock nuts (the guard brackets will be positioned on the outside of the support plate, use the back set of holes in the support plate for mounting).
10. Thread a 3/4" nut (7) onto the threaded adjustment rod (8) until the nut contacts the head of the rod. Install the rod into the nut welded to the support plate until the rod is all the way down.
11. Attach the motor mount (9) to the support plate using the 3/4" dia. x 14 5/8" pivot pin (10) and cotter pins (11).
12. Attach the belt guard (12) to the brackets previously installed on the support plate. Use four 5/16" x 1" bolts, flat washers, lock washers and non-lock nuts to attach the guard to the brackets (use the top set of slotted holes in the guard when mounting).
13. Install the 3/8" x 3" key (13) into the keyway on the end of the head shaft. Slide the sheave (14) onto the shaft until it is as close as possible to the head bearing lock collar without actually contacting the collar. Tighten the setscrews to secure sheave in place.
14. Use the chart on Page 12 to determine the mounting location for the electric motor **(the motor pulley, motor and its mounting hardware are not furnished).** Install the motor and pulley and align the pulley and sheave by placing a straight edge along the face of each. Install the belts (15) and using the threaded adjustment rod, tighten the belts. Once belts are tight, use the 3/4" nut to lock the adjustment rod into place (belts should have approximately 1/2" of deflection when firmly pressed at the center of the span).

ASSEMBLY INSTRUCTIONS

10" x 17', 22' & 27' ROOF AUGERS w/RECEIVING HOPPER

15. Use the roof auger mounting brackets (24, 25 & 26) to secure the auger assembly to the bin roof. Secure the brackets to the auger using the half bands and 5/16" x 1 1/2" bolts and non-lock nuts. Space the brackets equally along the length of the auger.

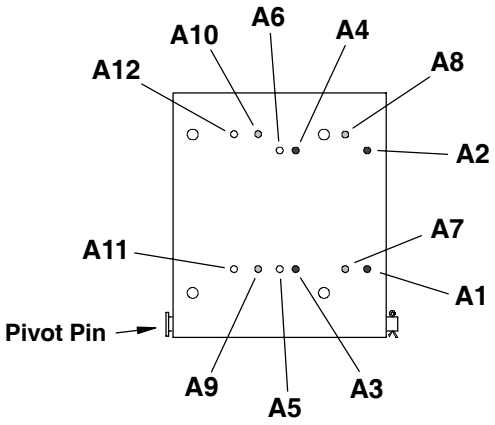


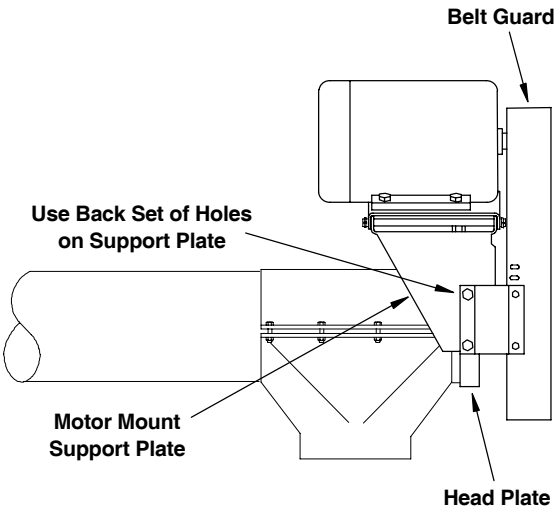
ASSEMBLY INSTRUCTIONS

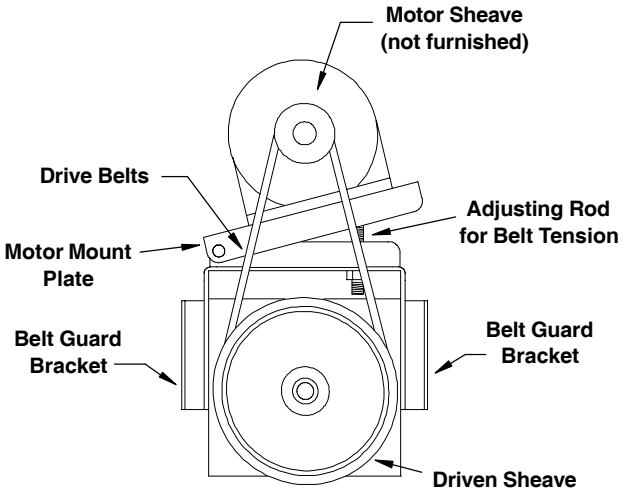
10” x 11’, 16’, 17’, 21’, 22’ & 27’ ROOF AUGERS

Motor Mount Location Chart

Motor Size HP	Motor Frame Size	Bolt Dia. Req’d.	Mount in Holes Marked (•)											
			A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
3 hp	182T	3/8”	•	•	•	•								
5 hp	184T	3/8”	•	•			•	•						
7.5 hp	213T	3/8”							•	•	•	•		
10 hp	215T	3/8”							•	•			•	•



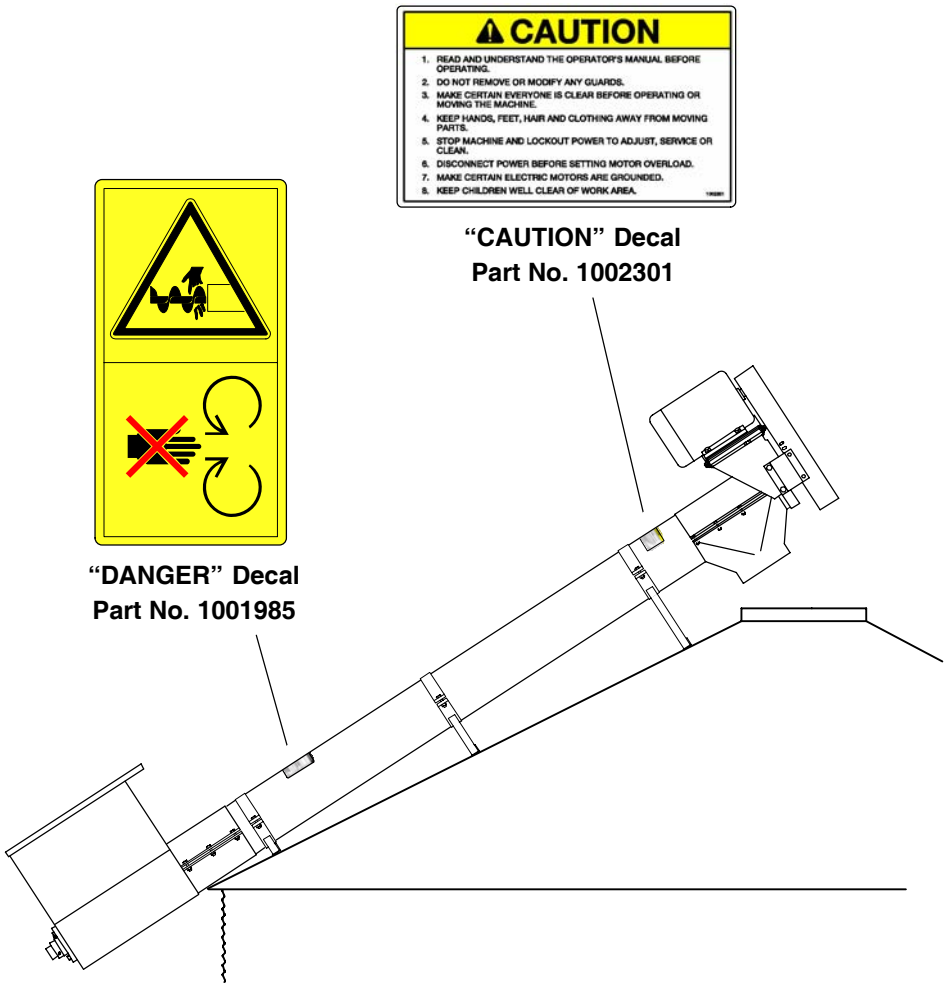




Front View
Shown as Reference Only

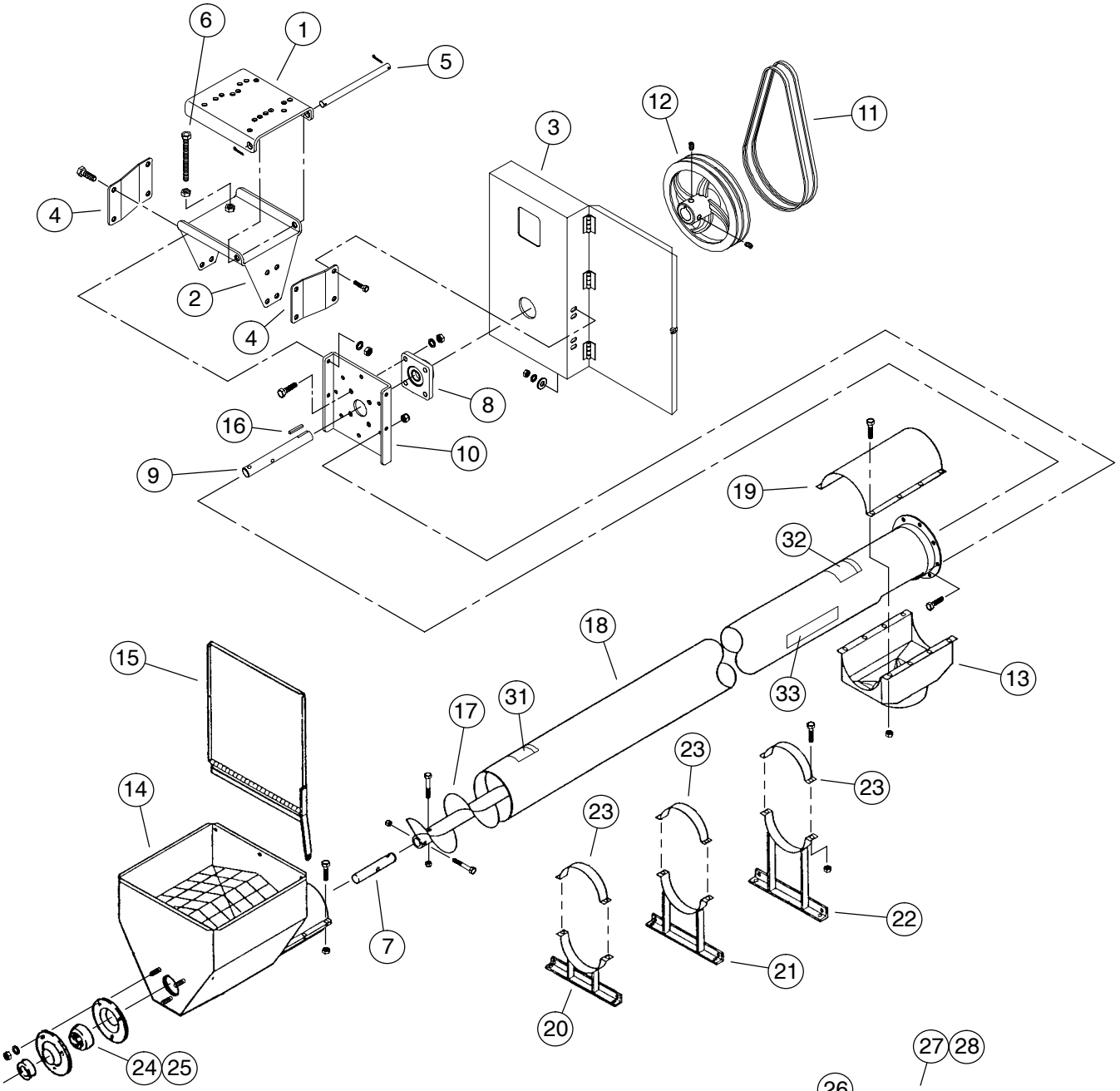
SAFETY SIGNS

Check all safety signs and replace any that are worn, missing or illegible. The safety signs and their locations are shown below. Safety signs may be obtained free of charge from your dealer or directly from the factory.



PARTS LIST

10” x 11’, 16’, 21’ & 27’ ROOF AUGERS w/CLAMP–ON HOPPER



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Optional Internal Bearing Detail
16’, 21’ & 27’ Models Only

PARTS LIST

10” x 11’, 16’, 21’ & 27’ ROOF AUGERS w/CLAMP–ON HOPPER

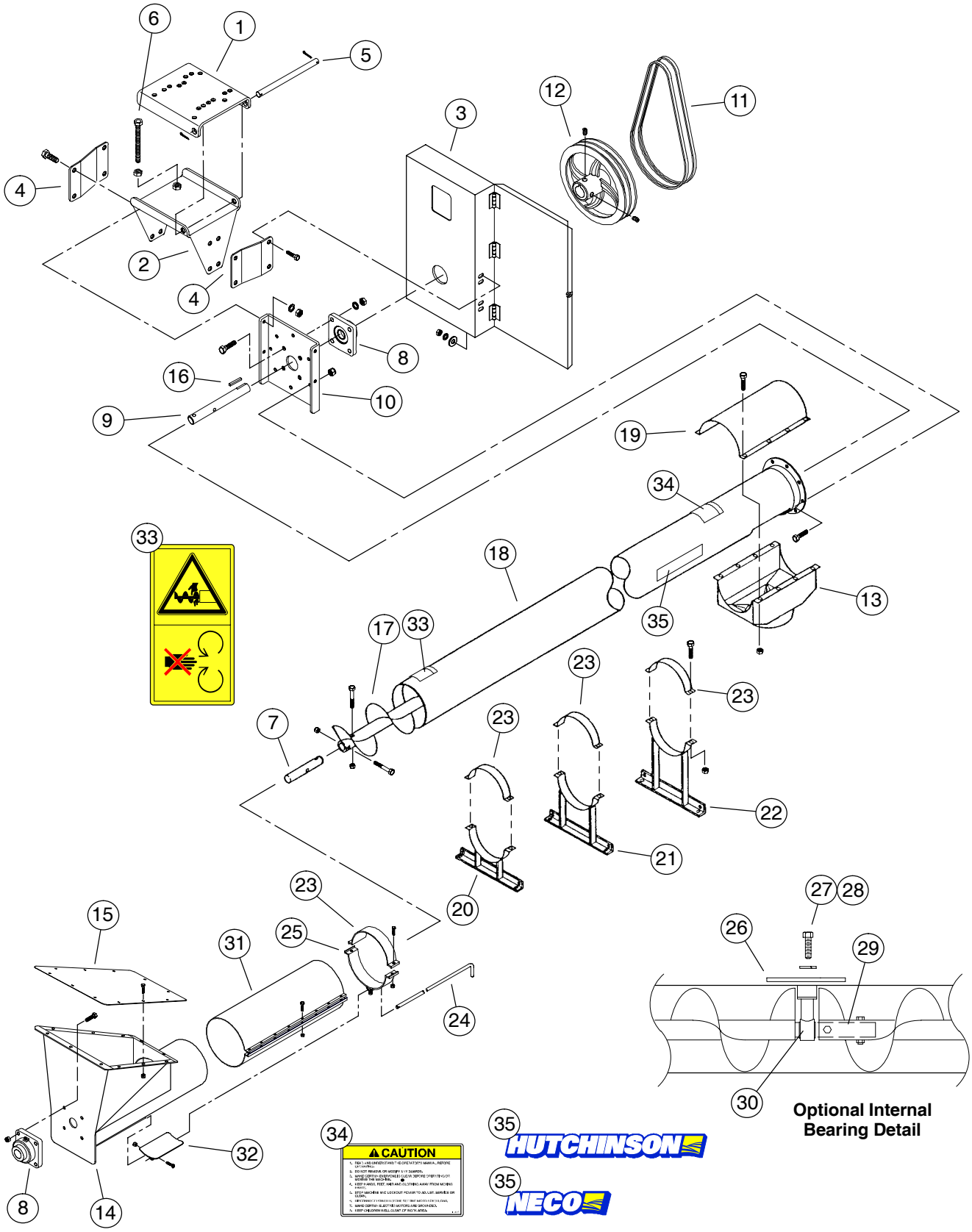
REF. NO.	PART NO.	DESCRIPTION
1	1022136	Motor Mount Plate
2	1022139	Motor Mount Support Plate
3	1009102	Belt Guard
4	1009099	Belt Guard Mount Bracket
5	1018789	Pivot Shaft (motor mount)
6	1022381	Adjustment Rod (motor mount)
7	1006A	Tail Stub, 1.50” x 9.50”
8	1010A	Bearing 1.50” bore, 4 hole flange
9	1040a	Head Stub, 1.50” x 10.50”
10	2141C	Head Plate
11	40122	Belt, B–62
12	40159	Sheave, 2B 15” w/1.50” bore
13	2007A	Head Spout, 90
14	631252	Hopper, Roof Auger
15	631254	Hopper Lid
16	4073A1	Key, Square Drive, 3/8” x 3” long
17	1016905	Flighting Assembly for 11’ (10’–11” long, less stub)
(17)	2114C	Flighting Assembly, Head, f/16’, 21’ & 27’ (10’–10” long, less stub)
(17)	1011320	Flighting Assembly, Intermediate f/27’(9’–9.75” long, with stub)
(17)	1032307	Flighting Assembly, Lower, f/16’ (75 5/8” long, with stub)
(17)	1032306	Flighting Assembly, Lower, f/21’ (135 5/8” long. with stub)
(17)	1032888	Flighting Assembly, Lower, f/27’ (63 5/8” long, with stub)
18	1015912–0F	Auger Housing, f/11’ (10’ long), Hutch
(18)	1015912N–0F	Auger Housing, f/11’ (10’ long), NECO
(18)	1034915–130	Auger Housing, f/16’ (15’ long), Hutch
(18)	1034915N–130	Auger Housing, f/16’ (15’ long), NECO
(18)	1034916–130	Auger Housing, f/21’ (20’ long), Hutch
(18)	1034916N–130	Auger Housing, f/21’ (20’ long), NECO
(18)	1034917–130	Auger Housing, f/27’ (25’ long), Hutch
(18)	1034917N–130	Auger Housing, f/27’ (25’ long), NECO
19	2806D	Back Band, 10” x 18” long
20	6303A1	Roof Bracket, 10” (3” tall)
21	6304A1	Roof Bracket, 10” (7” tall)
22	6305A1	Roof Bracket, 10” (11” tall)
23	5035A1	Half Band, 10” x 2” wide
24	40207	Bearing w/collar, 1.50” bore
25	40208	Bearing Flangette
26	1012296	Mount Plate f/Internal Bearing (16’, 21’ & 27’ only)
27	33276	Bolt, 5/8” x 1 1/2” G5, f/internal bearing
28	D1171	Lock Washer, 5/8”, f/internal bearing
29	1011167	Stub, Flight Connecting, welded to lower flight and intermediate sections, f/internal bearings on 16’, 21’ and 27’
30	4010A91	Hanger, Internal Bearing, w/bronze bushing (f/16’, 21’ & 27’)
– –	1051D	Bronze Bushing, 1 1/2” (not illustrated)
– –	1012298	Positioning Bar f/internal bearing (not illustrated)
31	1001985	Decal, Danger: Rotating Auger
32	1002301	Decal, Caution: Read and Understand...
33	1001128	Decal, Hutchinson
(33)	1048742	Decal, NECO

Optional Extension Components

1015928–0A	5’ Extension Auger Housing (5’ long)
1015928–0F	10’ Extension Auger Housing (10’ long)
1015925–0L	15’ Extension Auger Housing (15’ long)
1015925–0R	20’ Extension Auger Housing (20’ long)
1015983	5’ Extension Flight (4’–9.75” long)
1011320	10’ Extension Flight (9’–9.75” long)
1012D	Connecting Band, Auger Housing

PARTS LIST

10” x 17’, 22’ & 27’ ROOF AUGERS w/RECEIVING HOPPER



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10” x 17’, 22’ & 27’ ROOF AUGERS w/RECEIVING HOPPER

REF. NO.	PART NO.	DESCRIPTION
1	1022136	Motor Mount Plate
2	1022139	Motor Mount Support Plate
3	1009102	Belt Guard
4	1009099	Belt Guard Mount Bracket
5	1018789	Pivot Shaft (motor mount)
6	1022381	Adjustment Rod (motor mount)
7	1006A	Tail Stub, 1.50” x 9.50”
8	1010A	Bearing 1.50” bore, 4 hole flange
9	1040A	Head Stub, 1.50” x 10.50”
10	2141C	Head Plate
11	40122	Belt, B–62
12	40159	Sheave, 2B 15” w/1.50” bore
13	2007A	Head Spout, 90
14	1027915	Hopper, Roof Auger, f/17’, 22’ & 27’
15	1027886	Hopper Lid, f/17’, 22’ & 27’
16	4073A1	Key, Square Drive, 3/8” x 3” long
17	2114C	Flighting Assembly, Head, f/17’, 22’ & 27’ (10’–10” long, less stub)
(17)	1011320	Flighting Assembly, Intermediate f/27’(9’–9.75” long, with stub)
(17)	1032307	Flighting Assembly, Lower, f/17’ (75 5/8” long, with stub)
(17)	1032306	Flighting Assembly, Lower, f/22’ (135 5/8” long. with stub)
(17)	1032888	Flighting Assembly, Lower, f/27’ (63 5/8” long, with stub)
18	1034915–130	Auger Housing, f/17’ (15’ long), Hutch
(18)	1034915N–130	Auger Housing, f/17’ (15’ long), NECO
(18)	1034916–130	Auger Housing, f/22’ (20’ long), Hutch
(18)	1034916N–130	Auger Housing, f/22’ (20’ long), NECO
(18)	1034917–130	Auger Housing, f/27’ (25’ long), Hutch
(18)	1034917N–130	Auger Housing, f/27’ (25’ long), NECO
19	2806D	Back Band, 10” x 18” long
20	6303A1	Roof Bracket, 10” (3” tall)
21	6304A1	Roof Bracket, 10” (7” tall)
22	6305A1	Roof Bracket, 10” (11” tall)
23	5035A1	Half Band, 10” x 2” wide
24	5312A1	Control Lever f/clean–out gate
25	6130A1	Half Band, w/lock, for control lever
26	1012296	Mount Plate f/Internal Bearing (17’, 22’ & 27’ only)
27	33276	Bolt, 5/8” x 1 1/2” G5, f/internal bearing
28	D1171	Lock Washer, 5/8”, f/internal bearing
29	1011167	Stub, Flight Connecting, welded to lower flight and intermediate sections, f/internal bearings on 17’, 22’ and 27’
30	4010A91	Hanger, Internal Bearing, w/bronze bushing (f/17’, 22’ & 27’)
31	1012D	Connecting Band, f/10” tubing, 30” long
32	1027908	Gate, Clean–out
– –	1051D	Bronze Bushing, 1 1/2” (not illustrated)
– –	1012298	Positioning Bar f/internal bearing (not illustrated)
33	1001985	Decal, Danger: Rotating Auger
34	1002301	Decal, Caution: Read and Understand...
35	1001128	Decal, Hutchinson
(35)	1048742	Decal, NECO

Optional Extension Components

1015928–0A	5’ Extension Auger Housing (5’ long)
1015928–0F	10’ Extension Auger Housing (10’ long)
1015925–0L	15’ Extension Auger Housing (15’ long)
1015925–0R	20’ Extension Auger Housing (20’ long)
1015983	5’ Extension Flight (4’–9.75” long)
1011320	10’ Extension Flight (9’–9.75” long)
1012D	Connecting Band, Auger Housing

WARRANTY

AG GROWTH INTERNATIONAL INC. – FORM OF LIMITED WARRANTY

Ag Growth International Inc. (“AGI”) warrants that the goods and/or services being supplied (the “Goods”) will be free from defects in materials and workmanship under normal conditions, use, service, and maintenance, for a period of twelve (12) months from the date of first operation of the Goods, but in no event more than eighteen (18) months from the date of delivery of the Goods to the end-user (the “Warranty Term”). If the Goods are being used for rental purposes, the Warranty Term for the subject Goods shall be limited to 90 days.

Subject to AGI’s sole discretion, if the Goods, or a component thereof, are found to have a default in materials and/or workmanship within the Warranty Term, AGI will, at its own option and expense, repair or replace the subject Goods or refund the purchase price for the applicable Goods. Any warranty related expenses incurred on behalf of or by the end-user without the prior written consent of AGI shall be the sole responsibility of the end-user. Expenses relating to travel, customs or import duties and tariffs, equipment rental, and any costs associated with accessing the Goods are the sole responsibility of the customer. Warranty shall be void in the event the Goods are returned or disposed of without the written consent of AGI.

The customer shall not assert a claim that the Goods are defective unless the customer gives written notice to AGI of such defect within forty-eight (48) hours of discovering such defect. In the event of a warranty claim, the customer must complete any and all information required by AGI in order to properly assess or investigate the claim. AGI shall be given a reasonable opportunity to inspect and test the Goods in question. Failure by the customer to notify AGI of such claim within 48 hours shall operate as a waiver of any and all such claims by the customer.

THIS IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY AGI WITH RESPECT TO THE GOODS AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTIBILITY OR FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS, OR OTHERWISE, AND WHETHER OR NOT AGI’S GOODS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY AGI FOR BUYER’S USE OR PURPOSE.

This limited warranty extends solely to Goods manufactured by AGI and does not cover any third-party parts, components, or materials. To the extent permitted by the manufacturer, AGI will pass on applicable warranties on third-party parts, components or materials to the end-user. This warranty does not extend to any losses or damages due to misuse, use of a kind and/or to a degree not reasonably expected to be made of the Goods, any use of the Goods which is not an intended use as specified in AGI’s published product literature or otherwise specified by AGI in writing, accident, acts of God, abuse, neglect, normal wear and tear (including corrosion and cosmetic issues), any equipment attached to or used in conjunction with the Goods, any field modifications or substitutions to original Goods, component damage incurred during shipping and handling, unauthorized modification or alteration, used beyond rated capacity, or improper installation, maintenance or application.

THE SOLE AND EXCLUSIVE REMEDY FOR ANY CLAIM HEREUNDER SHALL BE LIMITED TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE. AGI SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE AND IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL AGI’S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PURCHASE PRICE OF THE GOODS. BUYER AGREED THAT IN NO EVENT SHALL AGI’S

LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES. THE TERM "CONSEQUENTIAL DAMAGES" SHALL INCLUDE, BUT NOT BE LIMITED TO, LOSS OF ANTICIPATED PROFITS, LOSS OF USE, LOSS OF REVENUE, FAILURE TO MEET GOVERNMENT AND/OR ADMINISTRATIVE REQUIREMENTS, CLEAN UP COSTS, COST OF CAPITAL AND DAMAGE OR LOSS TO OTHER GOODS, PROPERTY OR EQUIPMENT.

To the fullest extent permitted by law, Buyer, on behalf of itself, its suppliers, their agents, employees or any entity or person for which Buyer is or may be responsible ("Indemnitors") shall fully indemnify, save and hold AGI, its agents, employees, officers, directors, partners and related entities harmless from and against all liability, damage, loss, claims, demands, actions and expenses of any nature whatsoever, including, but not limited to reasonable attorney's fees which arise out of or are connected with: (a) any negligent act, error or omission by any Indemnitor in the performance of this agreement; (b) the failure of the Indemnitor to comply with the laws, statutes, ordinances or regulations of any governmental or quasi-governmental authority; or (c) the material breach of any term or condition of this agreement by any of the Indemnitors. Without limiting the generality of the foregoing, the indemnity hereinabove set forth shall include all liability, damage, loss, claims, demands, and actions on account of personal injury, death or property loss to any third party, any Indemnitee, any of Indemnitee's employees, agents, licensees or invitees. The indemnity set forth herein shall survive any termination of this agreement.

THIS WARRANTY IS NON-TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL END-USER AND SHALL BE CONSIDERED VOID IF NOT REGISTERED WITHIN 30 DAYS OF RECEIPT OF THE GOODS BY THE ORIGINAL END USER.

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