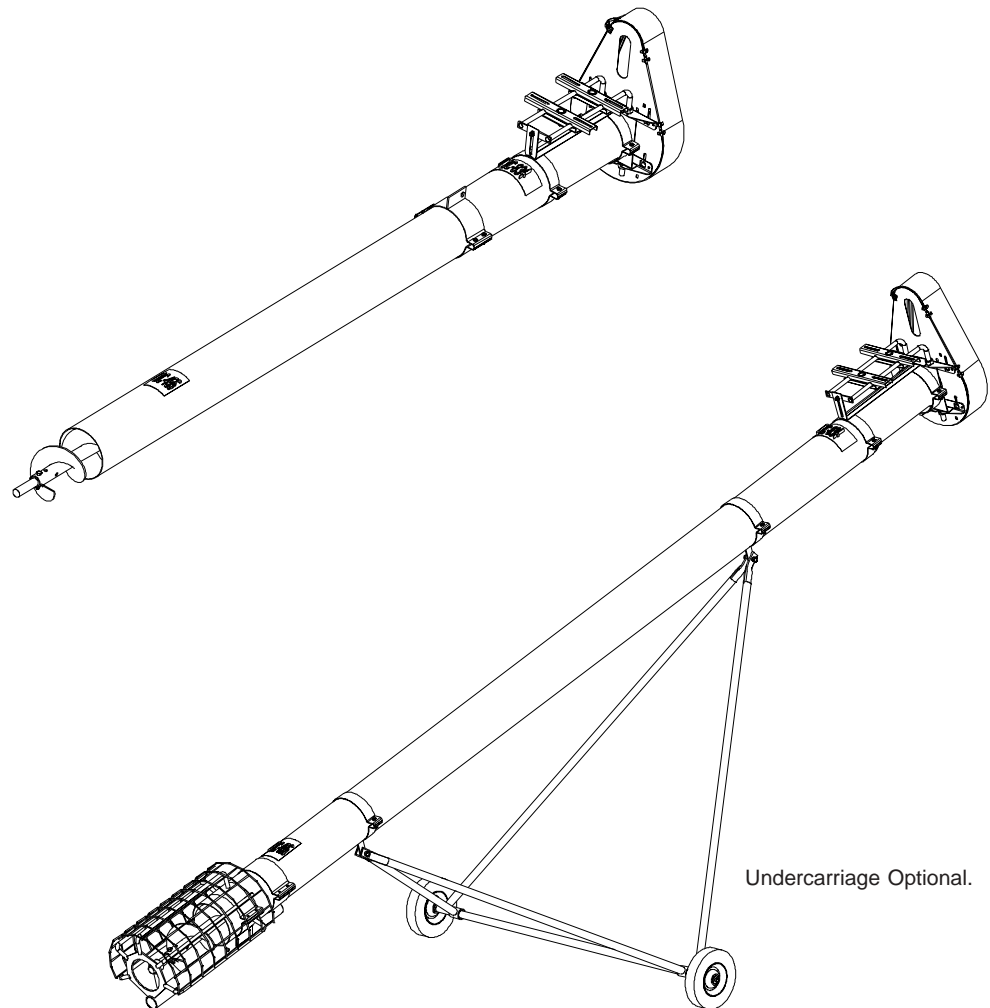


PNEG-199
06-25-01
Revision No. 2

8" Utility & Bulk Tank Augers

Assembly & Operation Manual



PNEG-199
06-25-01
Revision No. 2



PNEG-199

SAFETY GUIDELINES

This manual contains information that is important for you, the owner/operator, to know and understand. This information relates to protecting **personal safety** and **preventing equipment problems**. It is the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of these safety guidelines. To help you recognize this information, we use the symbols that are defined below.

Please read the manual and pay attention to these sections. Failure to read this manual and its safety instructions is a misuse of the equipment and can lead to serious injury or death.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.



NOTE indicates information about the equipment that you should pay special attention to.

SAFETY GUIDELINES

1. General Safety Guidelines

- A. **DO NOT** make any alterations to the equipment. Such alterations may produce a very dangerous situation, where **SERIOUS INJURY** or **DEATH** may occur.
- B. This equipment shall be installed in accordance with any regulations or installation codes that are required by law. Authorities having jurisdiction should be consulted before installations are made.
- C. Untrained operators subject themselves and others to **SERIOUS INJURY** or **DEATH**. **NEVER** allow untrained personnel to operate this equipment.
- D. Keep children and other unqualified personnel out of the working area at **ALL** times.
- E. **NEVER** start equipment until **ALL** persons are clear of the work area.
- F. Be sure **ALL** operators are adequately rested and prepared to perform **ALL** functions of operating this equipment.
- G. Keep hair, loose clothing, and shoestrings away from rotating and moving parts. **NEVER** wear loose fitting clothing when working around augers.
- H. **NEVER** allow any person intoxicated or under the influence of alcohol or drugs to operate the equipment.
- I. **NEVER** allow anyone inside a bin, truck, or wagon which is being unloaded by an auger or conveyor. Flowing grain can trap and suffocate in seconds.
- J. Make sure someone is nearby who is aware of the proper shutdown sequence in the event of an accident or emergency.
- K. **NEVER** work alone.
- L. **ALWAYS** think before acting. **NEVER** act impulsively around the equipment.
- M. Make sure **ALL** equipment is locked in position before operating.
- N. Keep hands and feet away from the auger intake and other moving parts.
- O. **NEVER** attempt to assist machinery operation or to remove trash from equipment while in operation.
- P. Use caution not to hit the auger when positioning the load.
- Q. Use ample overhead lighting after sunset to light the work area.
- R. **ALWAYS** lockout **ALL** power to the equipment when finished unloading.
- S. Keep area around intake free of obstacles such as electrical cords, blocks, etc. that might trip workers.

SAFETY GUIDELINES

2. Personal Protective Equipment

A. The proper personal protective equipment should be worn at **ALL** times by anyone in the work area.

**2-B**

B. **ALWAYS** wear safety glasses when in the work area.

**2-C**

C. The operator should **NEVER** wear jewelry.

**2-D, E**

D. Loose clothing should not be worn. Any clothing that becomes loosened should be tucked in tightly.

E. Loose or dangling shoe strings should be tucked in.

**2-F**

F. Long hair should be tied up and/or back.

SAFETY GUIDELINES

3. Emergency Shutdown Sequence

- A. In an emergency, shutdown the power source.

4. Pinch Points



NOTE: A *Pinch Point* is any place on the equipment which can injure the operator.

- A. Components of this equipment have sharp edges which can scrape and/or cut an operator.
- B. A moving auger can sever an operator's limbs or even kill him/her.

5. Shields and Guards

- A. **ALWAYS** keep **ALL** shields and guards in place during operation.

We will replace any missing shields or guards free of charge!

See (page VI) for more information on our Safety First program.

Safety **1st**

6. Operator Qualifications

- A. The User/Operator must be competent and experienced to operate auger equipment. Anyone who works with or around augers must have good common sense in order to be qualified. These persons must also know and meet all other qualifications, such as:
 - 1. Any person who has not read and/or does not understand all operation and safety procedures is not qualified to operate any auger systems.
 - 2. Certain regulations apply to personnel operating power machinery. Personnel under the age of 18 years may not operate power machinery, including augers. It is your responsibility, as owner and/or supervisor, to know what these regulations are in your area or situation.
 - 3. Unqualified or incompetent persons are to remain out of the work area.
 - 4. O.S.H.A. (Occupational Safety & Health Administration) regulations state:
"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." (Federal Occupational Safety & Health Standards for Agriculture. Subpart D, Section 19287.57 (a) (6).

SAFETY GUIDELINES

6. Operator Qualifications (*cont.*)

- B. As a requirement of OSHA, it is necessary for the employer to train the employee in the safe operating and safety procedures for this auger. We included this sign-off sheet for your convenience and personal record keeping. All unqualified persons are to stay out of the work area at all times. It is strongly recommended that another qualified person who knows the shutdown procedure is in the area in the event of an emergency. A person who has not read this manual and understands all operating and safety instructions is not qualified to operate the machine.

Date	Employer's Signature	Employee Signature
	1	
	2	
	3	
	4	
	5	
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	21	
	22	

SAFETY GUIDELINES

Safety 1st

Our equipment is built to provide many years of dependable service to our customers through durable craftsmanship.

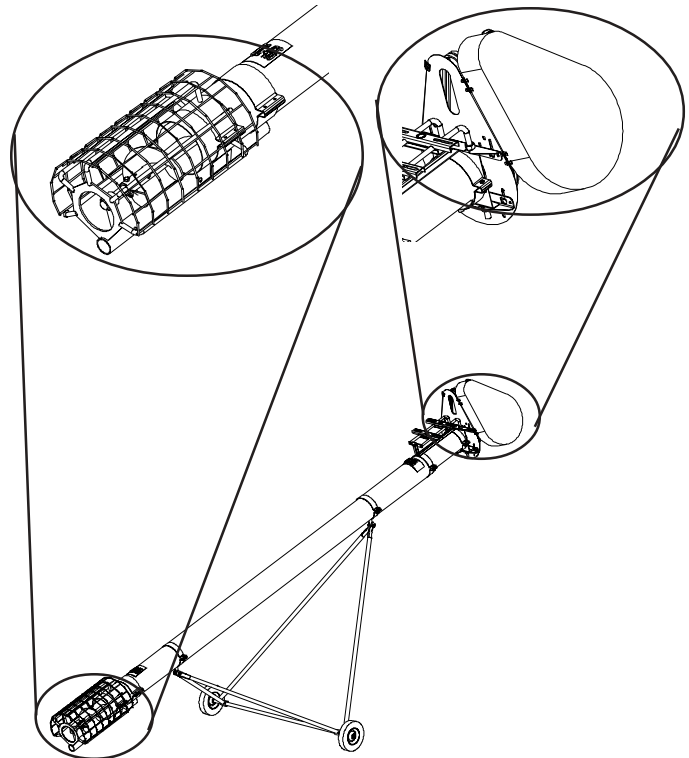
One of the most important aspects of our engineering is **SAFETY 1st** design throughout all product lines. At our company - safety is NO ACCIDENT!

That is why we have implemented a **SAFETY 1st** program. Should you ever need guards, shields, safety decals or owner/operator manuals, simply contact us or your local dealer, and we will supply you with them **FREE OF CHARGE!**

While it is our main goal for our company to be the world leader in auger manufacturing, it is always our first priority to keep our customers safe.

If you need any of the above listed safety items or have any safety questions, please contact the manufacturer or your local dealer.

We replace missing guards and shields
FREE OF CHARGE!



Personnel operating or working around this equipment should read this manual. This manual must be delivered with equipment to its owner. Failure to read this manual and its safety instructions is a misuse of the equipment. Any misuse of the equipment may void the warranty.

Safety Guidelines	i
SAFETY 1st	vi
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SAFETY DECALS

The Decal List below has all the safety decals that should be included with your equipment. The following pages show what the decals look like and where they should be located on the equipment. Inspect all decals and replace any that are illegible, worn, or missing. Contact your local dealer or the manufacturer to order replacement decals free of charge.

8" Utility & Bulk Tank Auger Decal List

Ref. #	Part #	Description	Size
1	DC-995	Warning - Shear Point	4-1/2" x 2"
2	DC-994	Danger - Shear Point	4-1/2" x 2"
3	DC-834	Danger - Unloading	9" x 3-3/4"
4	DC-1379	Notice - 1 -11	5-1/8" x 7-3/8"
5	DC-1395	Danger - Rotating Flight	4-1/4" x 6-1/4"
6	DC-455	Danger - Rotating Flight	4" x 5-3/4"

①
DC-995



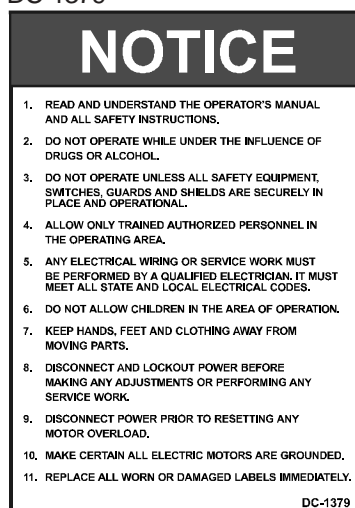
②
DC-994



③
DC-834



④
DC-1379



⑤
DC-1395

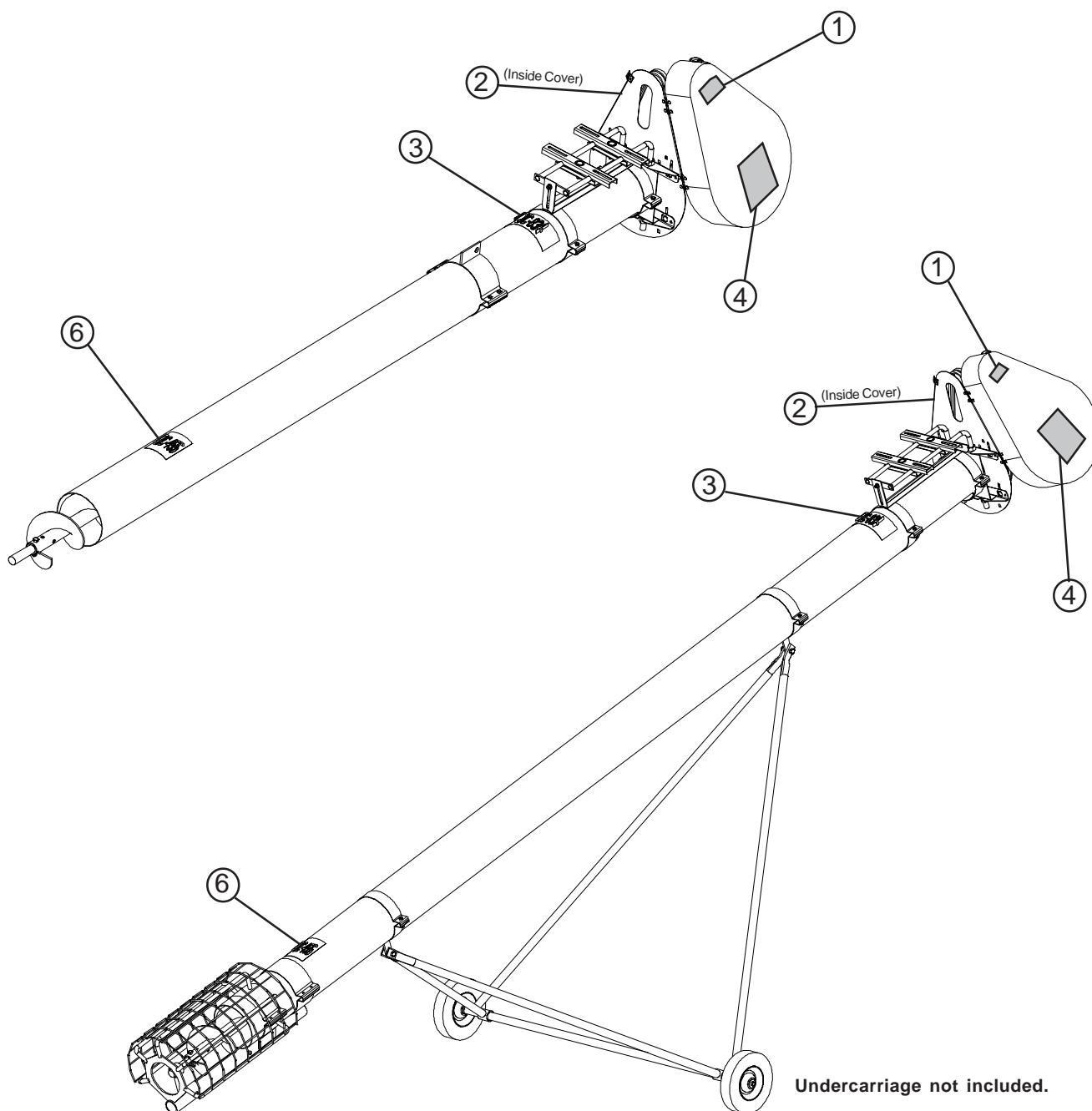


⑥
DC-455



SAFETY DECALS

- A. The images below show the location of the decals and safety signs which should appear on the Utility and Bulk Tank Augers.

**NOTE**

Please remember safety signs provide important safety information for people working near bin unloading equipment that is in operation. Any safety signs that are worn, missing, illegible or painted over should be replaced immediately. Obtain **FREE** replacements by contacting your dealer.

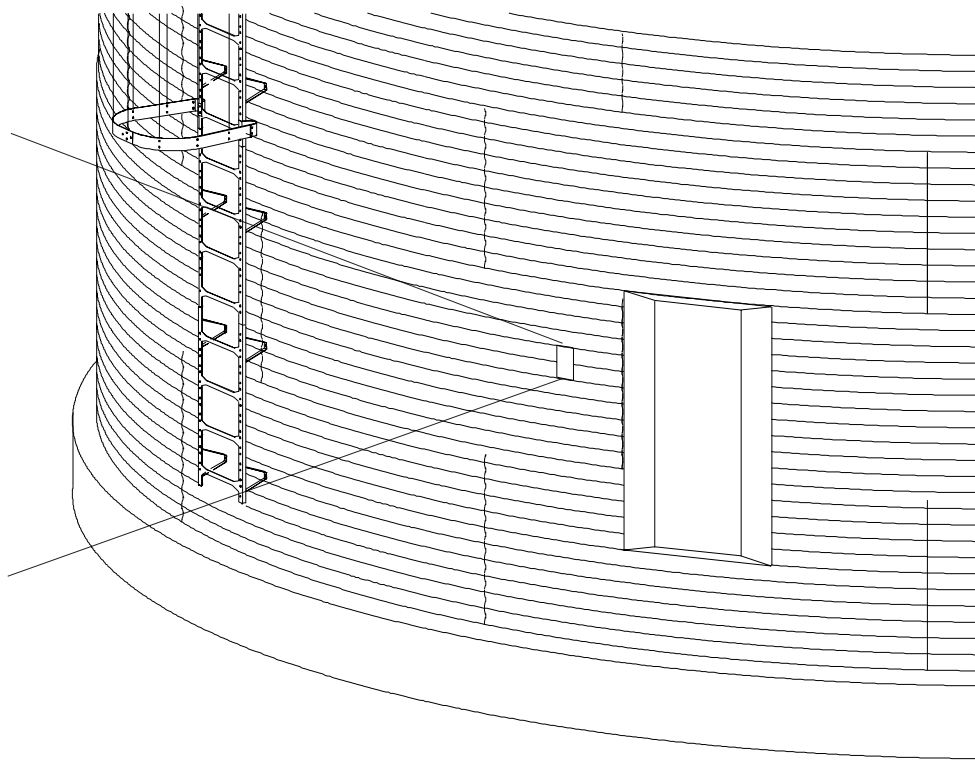
SAFETY DECALS

- A. DANGER Sign No. DC-1395 was supplied with your 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 storage building. Do not cover any safety signs or any other signs that are already there.
- B. If the safety sign location suggested is not in full view because of equipment modifications, other equipment in the area, or any reason, then locate the safety sign in a more suitable location.
- C. Be certain the surface is clean, dry and free of dirt and oil. Peel paper backing from decals and stick into place. The adhesive backing will bond on contact.

NOTE

Please remember, safety signs provide important safety information for people working near bin unloading equipment that is in operation.

DC-1395



⚠ WARNING

If the Safety Sign cannot be easily read for any reason or has been painted over, replace it immediately. Additional Safety Signs may be obtained *free of charge* from your dealer, distributor, or ordered from the factory.

Order SAFETY SIGN NO. DC-1395

1. General Information

- A. We reserve the right to improve our product whenever possible and practical to do so. We reserve the right to change, improve, and modify products at any time without obligation to make changes, improvements, and modifications on equipment sold previously.
- B. The 8" Utility and Bulk Tank Augers have been designed and manufactured to give years of dependable service. The care and maintenance of this machine will affect the satisfaction and service obtained. By observing the instructions and suggestions we have recommended, the owner should receive competent service for many years. If additional information or assistance should be required, please contact the factory or your local dealer.
- C. **Receiving Merchandise and Filing Claims**
- When receiving merchandise, it is important to check both the quantity of parts and their descriptions with the packing list enclosed within each package. All claims for freight damage or shortage must be made by the consignee within ten (10) days from the date of the occurrence of freight damage. The consignee should accept the shipment after noting the damage or loss.

2. Capacity

- A. The capacities may vary greatly under varying conditions. The following factors play a role in the performance of the auger:
- Speed
 - Angle of operation
 - Moisture content
 - Amounts of foreign matter
 - Different materials
 - Methods of feeding
- B. For example, a twenty-five percent (25%) moisture could cut capacity by as much as 40% under some conditions.

3. Specifications

8" Utility Augers

- 14 Gauge Housing
- 1.90" Flight Shaft
- .188" Flight
- 12" OD, 2 Belt, 1.25" Bore Sheave
- Optional 8" Utility Undercarriage (GUF80000) for one piece up to 33'
- Available lengths: 11', 16', 21', 27', 33', 41' (33' Dis. w/8' Ext.), 53' (33' Dis. w/20' Ext.)
- Available Extensions: 5', 10', 15', 20'
- Horsepower Requirements: 11' (1.5 HP), 16' (2 HP), 21' (3 HP), 27' (5 HP), 33' (5 HP), 41' (5 HP), 53' (7.5 HP)
- Utility Guard Included

8" Bulk Tank Augers

- 14 Gauge Housing
- 1.90" Flight Shaft
- .188" Flight
- 12" OD, 2 Belt, 1.25" Bore Sheave
- Available lengths: 11', 16', 21', 27', 33', 41', (33' Dis. w/8' Ext.)
- Available Extensions: 5', 10', 15', 20'
- Horsepower Requirements: 11' (1.5 HP), 16' (2 HP), 21' (3 HP), 27' (5 HP), 33' (5 HP), 41' (5 HP), 53' (7.5 HP)
- Auger Support Band Included

BULK TANK AUGER ASSEMBLY

- A. Screw one 3/4" hex nut (16) to the top of each motor mount rod (6).
- B. Slide the motor mount rods (6) through the head plate assembly (4).
- C. Line up slot on the plate end of the motor mount rods (6) with the slot on the head plate assembly (4). Fasten them together using 5/16" x 3/4" carriage bolt (19), a flat washer (20), and a nylock nut (21).
- D. Attach a 3/4" hex nut (16) onto the bottom of each motor mount rod (6). Tighten until nut rests against the head plate assembly (4).
- E. Adjust top 3/4" hex nuts (16) down until they rests against the top of the head plate assembly (4).
- F. Connect the two-hole flange bearing (5) to head plate assembly (4) using two 7/16" x 1-1/4" bolts (17) with stover nuts (25).
- G. Loosen the top and bottom nuts on the motor mount rods (6) to allow the belt guard mounting angles (10) to slide onto the motor mount rods (6). Once the angles are in place tighten nuts to keep mounting angles (10) in position.
- H. Connect head drive stub shaft (3) to flight (2) using two 7/16" x 2-1/2" bolts (24) with stover nuts (25).
- I. Slide head plate assembly (4) over discharge end of tube (1) and tighten the halfband clamps using four 5/16" x 1-1/2" (26) bolts with nylock nuts (21).
- J. Fasten belt guard (11) to mounting angles (10) using four 5/16" x 3/4" carriage bolts (19) with flat washers (20), and nylock nuts (21). **Do Not Fully Tighten.**
- K. Slide discharge end of flighting (2) into the intake end of the tube (1).
- L. Place head drive stub shaft (3) through head bearing (5) with enough extended to mount pulley (12) with key (15). Tighten lock collar on bearing and tighten setscrews in pulley.
- M. Place the top motor mount clips (9) on top of the motor mount rods (5). Place the bottom motor mount clips (8) directly underneath the top motor mount clips (9) and attach each pair together using two 3/8" x 2-1/2" carriage bolts (22) and 3/8" hex nuts (23). **Do not fully tighten so you can adjust them to the motor.**

NOTE

The motor, motor pulley, and motor hardware are not supplied.

- N. Attach the motor to the drive unit making sure that the motor is parallel with the auger housing. Use carriage bolts, flatwashers, lock washers, and nuts. Install the motor pulley to the motor. Align the motor pulley and driven pulley by sliding the motor mount clips along the motor mount rods. Tighten the motor mount clips.
- O. Install the belts (13) over the pulleys (12). Belt tension can be fixed by adjusting the height of the motor by turning the 3/4" nuts (16) on the threaded rods (6).
- P. After motor height is properly adjusted go back and tighten all bolts and nuts.
- Q. Close door on belt guard and latch.
- R. Place the truss support (27) on the top side of the auger tube (1) and attach using a halfband (28) with four 5/16" x 1-1/2" hex head capscrew (26) and four locknuts

Exploded view diagram of a mechanical assembly, likely a conveyor or auger system, showing various components numbered 1 through 28. The diagram includes labels for 'Discharge End' and 'Intake End'.

Key components and their approximate locations:

- 1:** Main shaft or frame.
- 2:** Helical auger or screw conveyor.
- 3:** Drive shaft or coupling.
- 4:** Structural support or bracket.
- 5:** Motor or actuator.
- 6:** Structural support or bracket.
- 7:** Drive shaft or coupling.
- 8:** Structural support or bracket.
- 9:** Motor or actuator.
- 10:** Structural support or bracket.
- 11:** Motor or actuator.
- 12:** Gear or pulley.
- 13:** Belt or chain.
- 14:** Drive shaft or coupling.
- 15:** Gear or pulley.
- 16:** Nut or fastener.
- 17:** Bearing or support.
- 18:** Structural support or bracket.
- 19:** Motor or actuator.
- 20:** Structural support or bracket.
- 21:** Motor or actuator.
- 22:** Structural support or bracket.
- 23:** Structural support or bracket.
- 24:** Bearing or support.
- 25:** Drive shaft or coupling.
- 26:** Structural support or bracket.
- 27:** Motor or actuator.
- 28:** Motor or actuator.

Lock out all power sources while installing or maintaining equipment.

Keep all safety devices and shields in place at all times until power source is locked out.

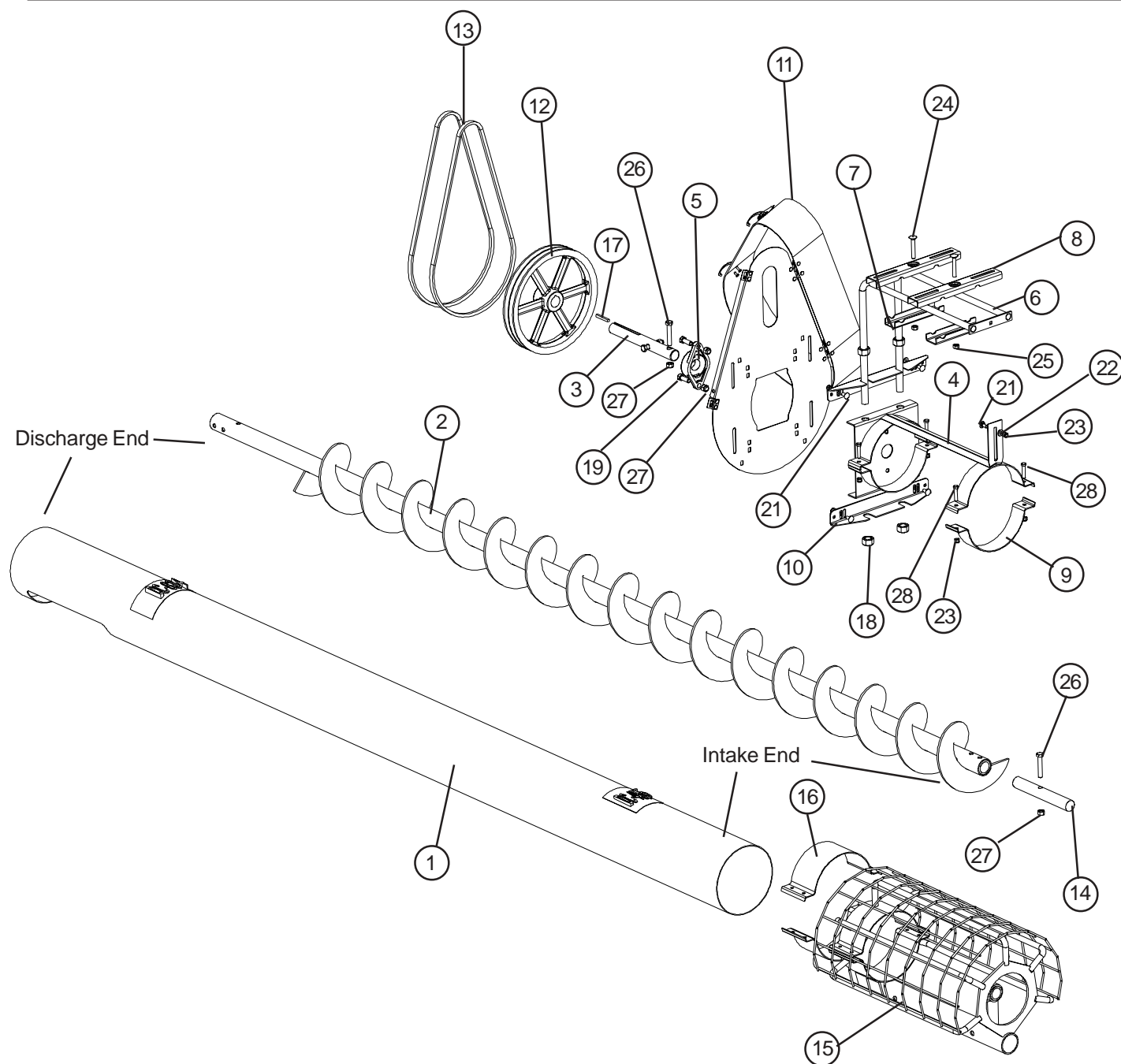
UTILITY AUGER ASSEMBLY

- A. Screw one 3/4" hex nut (18) to the top of each motor mount rod (6).
- B. Slide the motor mount rods (6) through the head plate assembly (4).
- C. Line up slot on the plate end of the motor mount rods (6) with the slot on the head plate assembly (4). Fasten them together using 5/16" x 3/4" carriage bolt (21), a flat washer (22), and a nylock nut (23).
- D. Attach a 3/4" hex nut (18) onto the bottom of each motor mount rod (6). Tighten until nut rests against the head plate assembly (4).
- E. Adjust top 3/4" hex nuts (18) down until they rests against the top of the head plate assembly (4).
- F. Connect the two-hole flange bearing (5) to head plate assembly (4) using two 7/16" x 1-1/4" bolts (19) with stover nuts (27).
- G. Loosen the top and bottom nuts on the motor mount rods (6) to allow the belt guard mounting angles (10) to slide onto the motor mount rods (6). Once the angles are in place tighten nuts to keep mounting angles (10) in position.
- H. Connect head drive stub shaft (3) to flight (2) using two 7/16" x 2-1/2" HHCS (grade 5) bolts (26) with locknuts.
- I. Slide head plate assembly (4) over discharge end of tube (1) and tighten the halfband clamps using four 5/16" x 1-1/2" (28) bolts and nylock nuts (23).
- J. Fasten belt guard (11) to mounting angles (10) using four 5/16" x 3/4" carriage bolts (21) with flat washers (22), and nylock nuts (23). **Do Not Fully Tighten.**
- K. Slide discharge end of flighting (2) into the intake end of the tube (1).
- L. Place head drive stub shaft (3) through head bearing (5) with enough extended to mount pulley (12) with key (17). Tighten lock collar on bearing and tighten setscrews in pulley.
- M. Place the top motor mount clips (8) on top of the motor mount rods (5). Place the bottom motor mount clips (7) directly underneath the top motor mount clips (9) and attach each pair together using two 3/8" x 2-1/2" carriage bolts (24) and 3/8" hex nuts (25). **Do not fully tighten so you can adjust them to the motor.**

NOTE**The motor, motor pulley, and motor hardware are not supplied.**

- N. Attach the motor to the drive unit making sure that the motor is parallel with the auger housing. Use carriage bolts, flatwashers, lock washers, and nuts. Install the motor pulley to the motor. Align the motor pulley and driven pulley by sliding the motor mount clips along the motor mount rods. Tighten the motor mount clips.
- O. Install the belts (15) over the pulleys (12). Belt tension can be fixed by adjusting the height of the motor by turning the 3/4" nuts (18) on the threaded rods (6).
- P. After motor height is properly adjusted go back and tighten all bolts and nuts.
- O. Close door on belt guard and latch.
- P. Slide intake guard (15) onto tubing (1) until the top tail stub (14) slides through the bushing on the intake guard (15). Attach the intake guard (15) to the tube using four halfbands (16) and eight 5/16" x 1-1/2" (28) hex head capscrews and eight locknuts.

UTILITY AUGER ASSEMBLY



⚠ DANGER

Lock out all power sources while installing or maintaining equipment.

⚠ DANGER

Keep all safety devices and shields in place at all times until power source is locked out.

1. Utility Augers Only

- A. Utility Augers are primarily designed as portable units. These augers are not designed for permanent installations. A utility auger has many different uses. Since it is not sold with an undercarriage or other method of support, it must be supported by the user satisfactorily for the specific job. Always be sure to fasten the discharge and intake end in place so the auger will stay in place throughout operation.

2. Bulk Tank Augers

- A. Bulk Tank Augers are designed for use in bulk tank unloading augers only. These units are not furnished with intake guards. **THEY ARE TO BE USED ONLY IN A BULK TANK.** If removed with the intention of using as a utility auger, an intake guard is required, order from parts page, and install prior to use.

⚠ DANGER

If you remove a bulk tank auger with the intention of using it as a utility auger, an intake guard is required, order one from parts page and install prior to use.

- B. Since it is not sold with an undercarriage or other method of support, it must be supported by the user satisfactorily for the specific job. Always be sure to fasten the discharge and intake end in place so the auger will stay in place throughout operation.

3. Horsepower Information for Electric Motors

- A. Horsepower recommendations are for augering reasonably dry grain at different angles. Grain with 15% moisture and above may require more horsepower if maximum capacity is to be maintained. Use a 2.5" to 3.0" motor pulley for a recommended auger speed of 550 to 650 R.P.M. Motor pulley not furnished. Excessive wear will result if auger speed is in excess of 700 R.P.M. and auger load up will occur if auger speed is less than 500 R.P.M. or flow gate is required.
- B. Auger speeds in excess of 750 R.P.M. should be avoided as excessive wear will result. Auger speed below 450 R.P.M. require a flow control to restrict intake to the auger. High torque is required to turn the flighting if it is permitted to "load up" at low speed and damage to the auger can result. An optional control gate is available for this purpose.

This Chart is a suggested horsepower requirement for standard 8" Utility and Bulk Tank Augers.

8" Horsepower Chart							
LENGTH:	11'	16'	21'	27'	33'	41'	53'
MOTOR H.P.	1.5	2	3	5	5	5	7.5

⚠ WARNING

Electrical controls and wiring should be installed by a qualified electrician. The motor disconnect switches and conductor cables should comply with the National Electrical Code and any local codes which apply. Motor starting control stations should be so located that the operator can see that all personnel are clear of the equipment.

3. Power Source

- A. Use electric motors that operate at 1750 R.P.M.
- B. Electric motors and controls should be installed by a qualified electrician and must meet the standards set by the National Electrical Code and all local and state codes.
- C. 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.

⚠ WARNING

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.

CAUTION

Disconnect power before resetting motor overloads.

⚠ WARNING

Make sure all electrical motors are grounded.

⚠ WARNING

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

⚠ DANGER

Shut off power to adjust , service, or clean the machinery.

⚠ DANGER

Keep all safety guards and shields in place.

4. Maintenance

- A. The flange bearings on the head and tail ends of all units should be lubricated on frequent intervals.

⚠ DANGER

Never clean, adjust, or lubricate a machine that is in operation.

1. Start-up and Break-In

⚠ DANGER

ALWAYS keep ALL guards and shields in place, until all the power is disconnected and locked out.

- A. Make sure all belts are tensioned properly.
- B. Make sure ALL shields are in place and that the belt(s) and pulley(s) are able to move freely.
- C. Double check the assembly instructions to see that all parts have been assembled properly.
- D. During operation of equipment, one person should be in a position to monitor the entire operation.

NOTE

During the initial start-up and break-in period, the operator should note any unusual vibrations or noises and take the appropriate action.

⚠ WARNING

Make certain everyone is clear before operating or moving the machine.

- E. The bin well inside the bin should have a control gate. The gate should be closed before start-up and closed before shutdown to allow the machine to clean out.
- F. The controls for the control gate should either pull or push open, depending on the type of well you have. 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 flighting assembly and tube.
- G. Any new screw conveyor or one that has set idle for a season should go through a "break-in" period. This "break-in" consists of running the auger at half capacity until the screw becomes polished and smooth before attempting to run at full capacity. It is recommended that several hundred bushels of grain be augered at partial capacity.

CAUTION

Failure of your auger is very likely to occur if it is run at full capacity before the screw has become polished.

CAUTION

NEVER operate augers empty for any length of time as excessive wear will result.

- H. Do not stop or start augers under load, especially before the flight and tube become well polished, as this may cause the auger to "lockup".

CAUTION

Excessive wear will result if auger is run at speeds in excess of what is recommended.

- I. Do not run auger at too slow speed, this will load up or over load the auger. An loading up of the auger will cause the motor to over load and a higher torque will be required to turn the auger, which in turn may cause damage to the auger.

1. Normal Shutdown

- A. Make certain unloading tubes are empty before stopping the unit.
- B. Disconnect and lockout the power source before leaving the work area.

2. Emergency Shutdown

- A. Know how to shut down the auger in case of an emergency.
- B. Disconnect and lockout the power source.
- C. Close bin well control gates.
- D. Clear out as much grain from the auger and hopper as you can.

CAUTION

Never restart when under a full load. Starting unit under load may result in damage to the machine. Such damage is considered abuse of the equipment.

- E. Reconnect and unlock the power source.
- F. Gradually clear the auger until there is no grain or obstructions.

3. Lockout

- A. Always stop and disconnect the power source whenever the operator must leave the work area or for maintenance of the machinery.
- B. Make sure equipment is locked out and that the machinery cannot be started while the operator is not in the work area.

⚠ WARNING

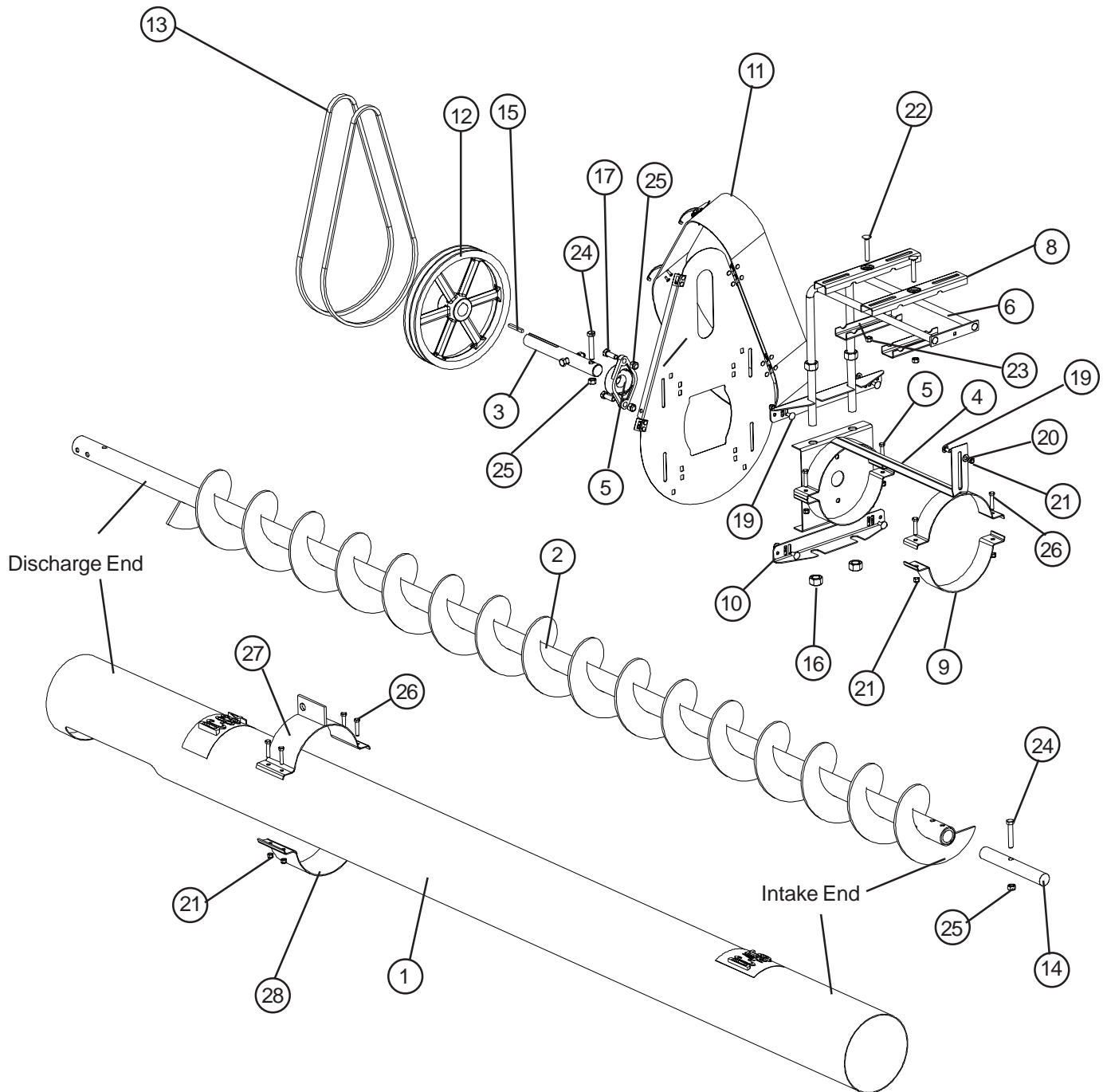
Use the type of main power disconnect switch that is capable of being locked only in the off position.

3. Storage Preparation

- A. Close all wells to discharge tube.
- B. Be sure the unload tube is empty.
- C. Make sure power source is disconnected and locked out.
- D. Check to see that all fasteners are secure.

<i>Problem</i>	<i>Possible Cause</i>	<i>Solution</i>
1. The auger is vibrating.	A. Damage can occur to the auger flighting, causing noise. Damage usually is caused from foreign material being run through the auger.	A1. It may be necessary to remove the flighting for inspection.
	A. Drive belt may be overtightened, putting head stub and flight in a bind.	A1. Loosen the drive belts.
2. Capacity is too low.	A. There may not be enough grain reaching the auger.	A1. Make sure the intake has not bridged over, restricting flow. The flighting at the intake should be covered with grain for maximum capacity.
	B. The auger is moving too slowly.	B1. Check the auger speed. Low capacity will result from speeds slower than recommended.
3. The auger plugs.	A. The auger may be "jamming" because too much grain is reaching the auger.	A1. Use the control gates to decrease the amount of grain the auger is gathering.
	B. The grain may be wet.	B1. If wet grain or other hard-to-move material is being augured, use a larger size motor than recommended for normal use.
	C. The auger may be jammed with foreign material.	C1. Remove any foreign material in the auger.
	D. The motor may be too small or wired incorrectly.	D1. Check wiring or consider using the next larger size motor.

8" BULK TANK AUGER

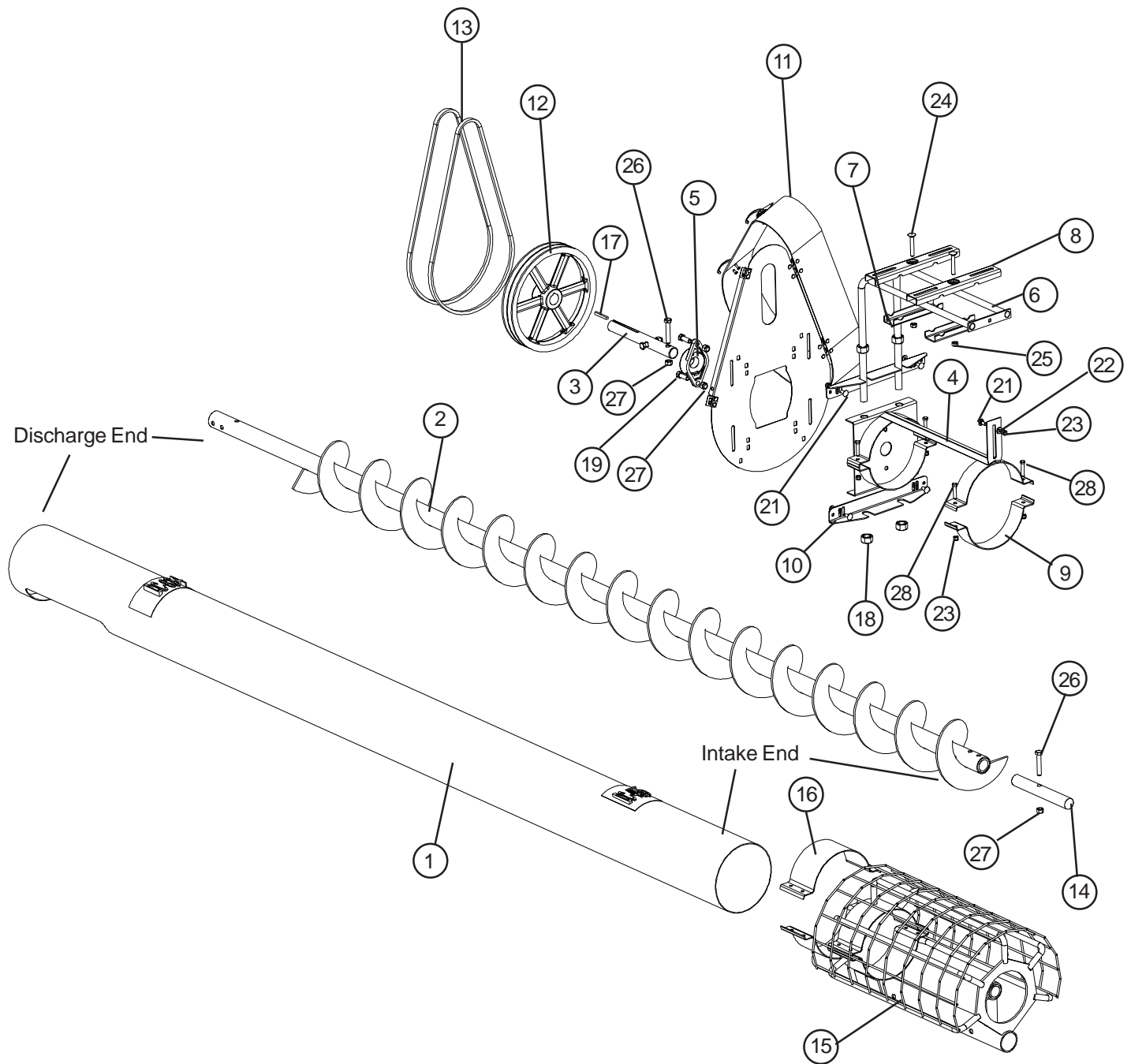


8" BULK TANK AUGER

8" BULK TANK AUGER PARTS LIST

Ref. No.	Part No.	Description	Qty.
1	GK2872	Discharge Tube 8" x 10'	
1	GK2873	Discharge Tube 8" x 15'	
1	GK2874	Discharge Tube 8" x 20'	
1	GK2875	Discharge Tube 8" x 26'	
1	GK2876	Discharge Tube 8" x 32'	
1		Dis. Tube 8" x 40' - GK2876 (8" x 32' Dis Tube) + GK2877 (8" x 8' Ext. Tube)	
2	GK2879	Flight - 8" x 11'	
2	GK2880	Flight - 8" x 16'	
2	GK2881	Flight - 8" x 21'	
2	GK2882	Flight - 8" x 27'	
2	GK2883	Flight - 8" x 33'	
2		Flight - 8" x 41' - GK2883 (8" x 33' Flight) + GK2894 (8" x 8' Ext. Flight)	
2		Flight - 8" x 53' - GK2883 (8" x 33' Flight) + GK2895 (8" x 20' Ext. Flight)	
3	GK1331	Head Stub Shaft 1-1/4" x 10-1/2"	1
4	GK1329	8" Head Plate Weldment	1
5	GK1330	2-Hole Flange Bearing w/ 1-1/4" Bore & Lock Collar	1
6	GK1327	Motor Mount Rod Weldment	1
7	GK1064	Bottom Motor Mount Strap/Clip	2
8	GK1063	Top Motor Mount Strap/Clamp	2
9	GK1055	8" x 2" Wide Halfband 12 Gauge Galvanized	1
10	GK1311	Belt Guard Mount Angle	2
11	GK1454	Poly Belt Guard Assembly	1
12	GK1335	Sheave: Aluminum 12" x 1-1/4" B - 2B	1
13	GK1323	V-Belt B-48	2
14	GK1884	Top Tail Stub Shaft - 1-1/4" x 9"	1
15	S-4513	1/4" x 1/4" x 2" Long Square Key	1
16	S-234	Hex Nut 3/4" - 10 Zinc Grade 5 Zinc	4
17	S-3886	7/16" - 14 x 1-1/4" HHCS Grade 5	2
19	S-6076	5/16" - 18 x 3/4" Carriage Bolt Zinc Grade 2	5
20	S-1937	5/16" Flat Washer Grade 2 Zinc SAE	5
21	S-7382	5/16" - 18 Nylock Nut Zinc Grade 5	9
22	S-6995	3/8" - 16 x 2-1/2" Carriage Bolt Zinc Grade 5	2
23	S-456	Hex Nut 3/8" - 16 Zinc YDP Grade 5	2
24	S-7372	7/16" - 14 x 2-1/2" HHCS Grade 8 Zinc	3
25	S-8317	Stover Nut 7/16"-14 Zinc Grade C	5
26	GK2741	5/16"-18 x 1-1/2" Zinc Grade 5	4
27	GK2922	Truss Support Weldment with Hardware	1
28	GK1059	8" x 4" Wide Galvanized Halfband	1

8" UTILITY AUGER



8" UTILITY AUGER

8" UTILITY TANK AUGER PARTS LIST

Ref. No.	Part No.	Description	Qty.
1	GK2872	Discharge Tube 8" x 10'	
1	GK2873	Discharge Tube 8" x 15'	
1	GK2874	Discharge Tube 8" x 20'	
1	GK2875	Discharge Tube 8" x 26'	
1	GK2876	Discharge Tube 8" x 32'	
1		Dis. Tube 8" x 40' - GK2876 (8" x 32' Dis Tube) + GK2877 (8" x 8' Ext. Tube)	
2	GK2879	Flight - 8" x 11'	
2	GK2880	Flight - 8" x 16'	
2	GK2881	Flight - 8" x 21'	
2	GK2882	Flight - 8" x 27'	
2	GK2883	Flight - 8" x 33'	
2		Flight - 8" x 41' - GK2883 (8" x 33' Flight) + GK2894 (8" x 8' Ext. Flight)	
2		Flight - 8" x 53' - GK2883 (8" x 33' Flight) + GK2895 (8" x 20' Ext. Flight)	
3	GK1331	Head Stub 1-1/4" x 10-1/2"	1
4	GK1329	8" Head Plate Weldment	1
5	GK1330	2-Hole Flange Bearing w/ 1-1/4" Bore & Lock Collar	1
6	GK1327	Motor Mount Rod Weldment	1
7	GK1064	Bottom Motor Mount Strap/Clip	2
8	GK1063	Top Motor Mount Strap/Clip	2
9	GK1055	8" x 2" Wide Halfband 12 Ga. Galvanized	1
10	GK1311	Belt Guard Mount Angle	2
11	GK1454	Poly Belt Guard Assembly	1
12	GK1335	Sheave: Aluminum 12" x 1-1/4" B - 2B	1
13	GK1323	V-Belt B-48	2
14	GK1884	Top Tail Stub Shaft - 1-1/4" x 9"	1
15	GK3501	8" Utility Intake Guard (With Hardware)	1
16	GK5118	8" x 4" Wide 21 Ga. Painted Halfband	1
17	S-4513	1/4" x 1/4" x 2" Long Square Key	1
18	S-234	Hex Nut 3/4" - 10 Zinc Grade 5	4
19	S-3886	7/16" - 14 x 1-1/4" HHCS Grade 5 Zinc	2
21	S-6076	5/16" - 18 x 3/4" Carriage Bolt Zinc Grade 2	5
22	S-1937	5/16" Flat Washer Zinc Grade 2 SAE	5
23	S-7382	5/16" - 18 Nylock Nut Zinc Grade 5	9
24	S-6995	3/8" - 16 x 2-1/2" Carriage Bolt Zinc Grade 5	2
25	S-456	Hex Nut 3/8" - 16 Zinc YDP Grade 5	2
26	S-7372	7/16" - 14 x 2-1/2" HHCS Grade 8 Zinc	3
27	S-8317	Stover Nut 7/16-14 Zinc Grade C	5
28	GK2741	5/16"-18 x 1-1/2" Zinc Grade 5	4

THE COMPANY WARRANTS ALL PRODUCTS MANUFACTURED TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USAGE AND CONDITIONS FOR A PERIOD OF TWELVE (12) MONTHS AFTER RETAIL SALE TO THE ORIGINAL END USER OF SUCH PRODUCTS. OUR ONLY OBLIGATION IS, AND PURCHASER'S SOLE REMEDY SHALL BE TO REPAIR OR REPLACE, AT THE COMPANY'S OPTION AND EXPENSE, PRODUCTS THAT, IN THE MANUFACTURERS SOLE JUDGEMENT, CONTAIN A MATERIAL DEFECT DUE TO MATERIALS OR WORKMANSHIP. ALL DELIVERY AND SHIPMENT CHARGES TO AND FROM THE FACTORY WILL BE PURCHASER'S RESPONSIBILITY. EXPENSES INCURRED BY OR ON BEHALF OF THE PURCHASER WITHOUT PRIOR WRITTEN AUTHORIZATION FROM AN AUTHORIZED EMPLOYEE OF THE COMPANY SHALL BE THE SOLE RESPONSIBILITY OF THE PURCHASER.

EXCEPT FOR THE ABOVE EXPRESS LIMITED WARRANTIES, THE COMPANY MAKES NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH (i) PRODUCT MANUFACTURED OR SOLD BY THE COMPANY OR (ii) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF THE COMPANY REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCT OR PRODUCTS.

IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOSS OF ANTICIPATED PROFITS OR BENEFITS. PURCHASER'S SOLE AND EXCLUSIVE REMEDY SHALL BE LIMITED TO THAT STATED ABOVE, WHICH SHALL NOT EXCEED THE AMOUNT PAID FOR THE PRODUCT PURCHASED. THIS WARRANTY IS NOT TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER. WE SHALL HAVE NO OBLIGATION OR RESPONSIBILITY FOR ANY REPRESENTATIVE OR WARRANTIES MADE BY OR ON BEHALF OF ANY DEALER, AGENT OR DISTRIBUTOR OF THE COMPANY.

THE COMPANY ASSUMES NO RESPONSIBILITY FOR FIELD MODIFICATIONS. MODIFICATIONS TO THE PRODUCT NOT SPECIFICALLY COVERED BY THE CONTENTS OF THIS MANUAL WILL NULLIFY ANY PRODUCT WARRANTY THAT MIGHT HAVE BEEN OTHERWISE AVAILABLE. THE USE OF OUR EQUIPMENT TO HANDLE MATERIALS OTHER THAN FREE FLOWING, NONABRASIVE AND DRY MATERIALS, AS INTENDED, WILL RESULT IN THE VOIDING OF THIS LIMITED WARRANTY.

THE FOREGOING WARRANTY SHALL NOT COVER PRODUCTS OR PARTS WHICH HAVE BEEN DAMAGED BY NEGLIGENT USE, MISUSE, ALTERATION, OR ACCIDENT. ANY NEGLIGENT USE, MISUSE, ALTERATION, OR DAMAGE DUE TO ACCIDENT, AS DETERMINED BY A COMPANY REPRESENTATIVE, MAY VOID THE WARRANTY. THIS WARRANTY COVERS ONLY PRODUCTS MANUFACTURED BY THE COMPANY. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. WE RESERVES THE RIGHT TO MAKE DESIGN OR SPECIFICATION CHANGES AT ANY TIME, BEARING NO RESPONSIBILITY TO MAKE SIMILAR DESIGN OR SPECIFICATION CHANGES ON PREVIOUSLY SOLD MERCHANDISE.

PRIOR TO INSTALLATION, PURCHASER HAS THE RESPONSIBILITY TO RESEARCH AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES WHICH MAY APPLY TO THE LOCATION AND INSTALLATION.

This Equipment shall be installed in accordance with the current installation codes and applicable regulations which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installation occurs.



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