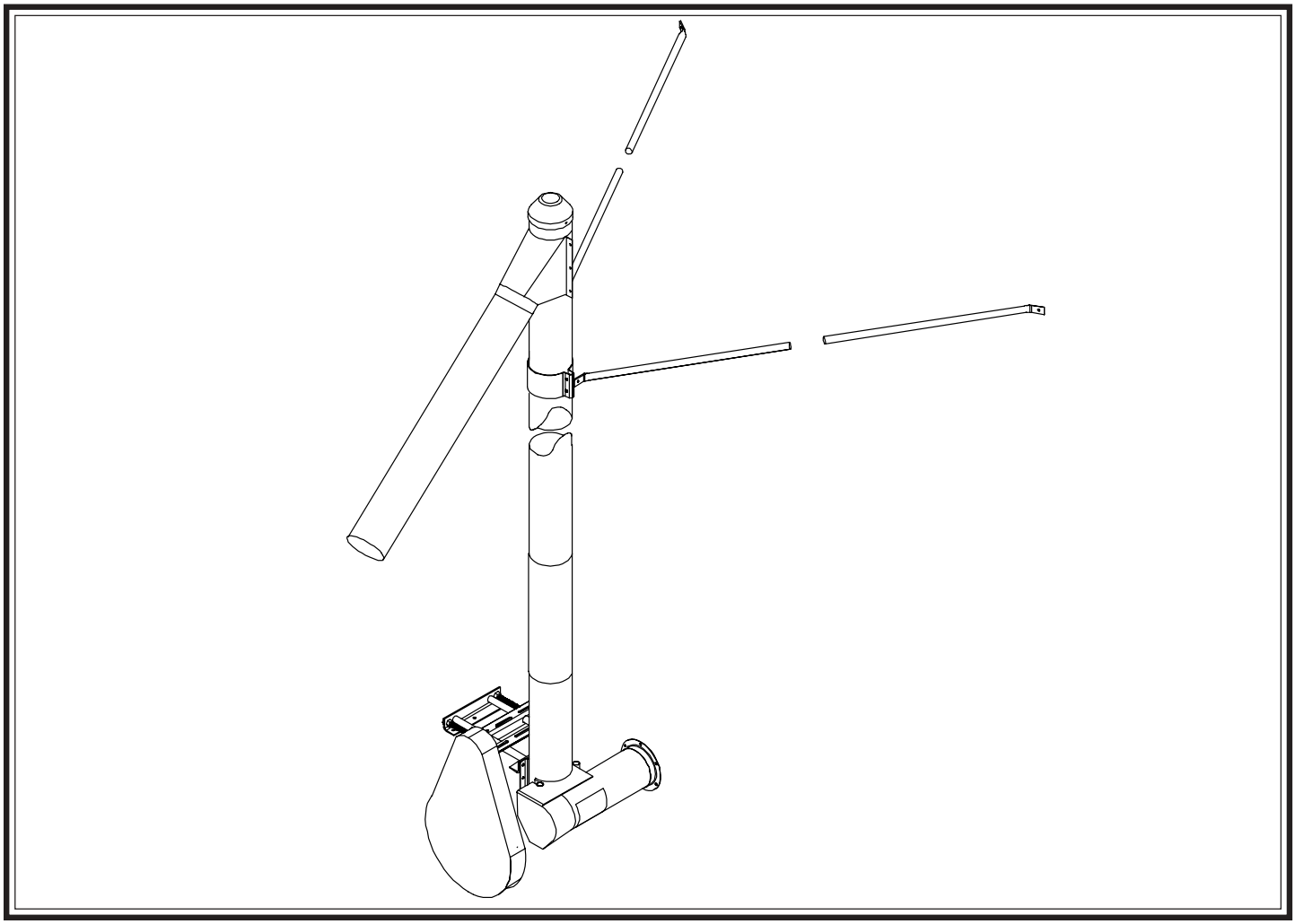
Pneg-760
April 15, 1999
Revision: 01

# 6", 8" and 10"
# Vertical Bin Unload Auger
## *Standard and Powerhead*

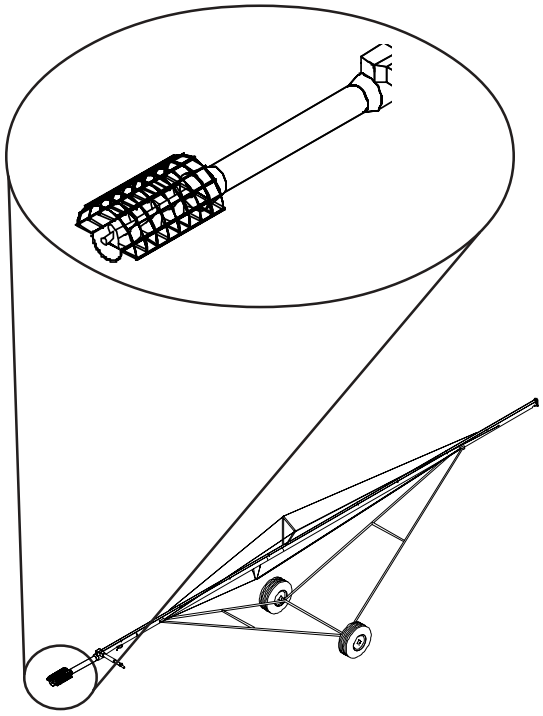
## *Installation & Operation Manual*



**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 equipmnent. Any misuse of the equipment may void the warranty.**

# GSI SAFETY 1st

*Replace missing guards and shields*
***FREE OF CHARGE!***



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

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

That is why GSI is implementing its ***SAFETY*** **1st** program. Should you ever need guards, shields, safety decals or owner/operator manuals, simply contact GSI, and we will supply you with them **FREE OF CHARGE**!

While it is our main goal for GSI 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 safety questions, please contact GSI:

PO Box 20
Assumption, IL. 62510
Ph: (217) 226-4421

## 1. General Information.

A. It is the plan of GSI to improve its 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. This equipment has been designed and manufactured to give years of dependable service. The care and maintenance of this equipment will affect the satisfaction and service obtained. By observing the instructions and suggestions recommended, the owner should receive competent service for many years. If additional information or assistance should be required, please contact the nearest dealer.

## 2. Electric Drive Motors.

**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. Reset and motor starting stations should be located so that the operator can see that all personnel are clear of the equipment.**

A. The horsepower requirement is determined by the bin size and lengths of horizontal flighting used in the unloading tube.

B. This chart is a suggested horsepower requirement for standard Augers.

| | Vertical | | |
|---|---|---|---|
| **Bin Dia.** | **6" (15.24 cm)** | **8" (20.32 cm)** | **10" (25.40 cm)** |
| 15' (4.57 m) | 2 | 3 | - |
| 18' (5.49 m) | 2 | 3 | - |
| 21' (6.40 m) | 3 | 5 | - |
| 24' (7.32 m) | 3 | 5 | 5 |
| 27' (8.23 m) | 3 | 5 | 5 |
| 30' (9.14 m) | 3 | 7.5 | 7.5 |
| 33' (10.06 m) | 5 | 7.5 | 7.5 |
| 36' (10.97 m) | 5 | 7.5 | 7.5 |

## 2. Electric Drive Motors (cont.)

C. Horsepower recommendations are for augering reasonably dry grain at different angles. Grain with 15% or more moisture may require more horsepower if maximum capacity is to be maintained. Use a 2.5" to 3.0" (6.35 cm to 7.62 cm) motor pulley for a recommended auger speed of 550 - 650 RPM. (Motor pulley not furnished with auger).

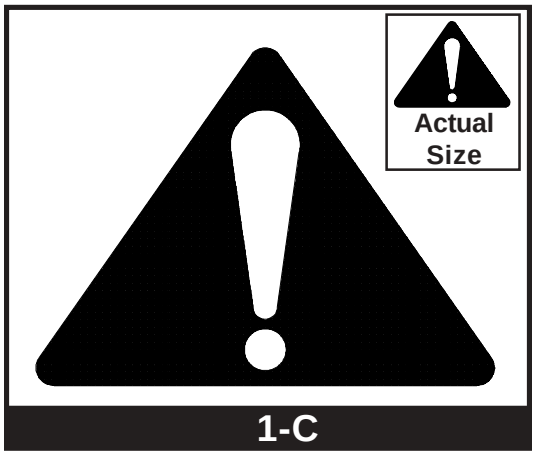
**Excessive wear will result if auger speed is in excess of 700 RPM and auger loadup will occur if auger speed is fewer than 500 RPM or flow gate is required. Auger speeds in excess of 750 RPM should be avoided, as excessive wear will result. Auger speeds fewer than 450 RPM require a flow control to restrict intake to the auger. High torque is required to turn the flighting if it is permitted to "jam" at low speed, and damage to the auger can result.**

**Electric motors and controls shall be installed by a qualified electrician, and must meet the standards set by the National Electrical Code and all local and state codes. Reset and motor starting controls shall be located where the operator has unrestricted access to the controls.**

D. A magnetic starter should be used for the operator's protection and that of the motor. This is to protect the operator against accidental restart caused by power interruption, conductor fault, low voltage, circuit interruption or motor overload. Therefore, the motor must be restarted manually. If using a motor with built-in thermal overload protection, make sure this type of motor has a manual reset.

**Disconnect and lockout power before resetting motor overloads. Make certain electric motors are grounded.**

## 1. General Safety Statements.




A. GSI's principle concern is your safety and the safety of others associated with grain handling equipment. We want to keep you as a customer. This manual is to help you understand safe operating procedures and some problems which may be encountered by the operator and other personnel.

B. As owner and/or operator, it is your responsibility to know what requirements, hazards and precautions exist, and to inform all personnel associated with the equipment or in the area. Safety precautions may be required from the personnel. Avoid any alterations to the equipment. Such alterations may produce a very dangerous situation, where SERIOUS INJURY or DEATH may occur.

C. This symbol is used to call attention to instructions concerning your personal safety. Watch for this symbol; it points out important safety precautions. It means "ATTENTION", "WARNING", "CAUTION", and "DANGER". Read the message that follows, and be cautious to the possibility of personal injury or death.

D. 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 installations are made.

## 1. General Safety Statements (cont.)

E. Untrained operators subject themselves and others to SERIOUS INJURY or DEATH. NEVER allow untrained personnel to operate this equipment.

F. Keep children and other unqualified personnel out of the working area at ALL times.

G. NEVER start equipment until ALL persons are clear of the work area.

H. Be sure ALL operators are adequately rested and prepared to perform ALL functions of operating this equipment.

I. Keep hair, loose clothing, and shoestrings away from rotating and moving parts. NEVER wear loose fitting clothing when working around augers.

J. NEVER allow any person intoxicated or under the influence of alcohol or drugs to operate the equipment.

K. 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.

L. Make sure someone is nearby who is aware of the proper shutdown sequence in the event of an accident or emergency.

M. NEVER work alone.

N. ALWAYS think before acting. NEVER act impulsively around the equipment.

O. Make sure ALL equipment is locked in position before operating.

P. Keep hands and feet away from the auger intake and other moving parts.

Q. NEVER attempt to assist machinery operation or to remove trash from equipment while in operation.

## 1. General Safety Statements (cont.)

R. NEVER drive, stand or walk under the equipment.

S. Use caution not to hit the auger when positioning the load.

T. Use ample overhead lighting after sunset to light the work area.

U. ALWAYS lockout ALL power to the equipment when finished unloading a bin.

V. Keep area around intake free of obstacles such as electrical cords, blocks, etc. that might trip workers.

## 2. Emergency Shutdown Sequence.

A. In an emergency, shutdown the power source.

## 3. Pinch Points.

**A pinch point is any place on the equipment which can injure an 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.

## 4. Shields and Guards.

A. ALWAYS keep belt guards in place during operation.

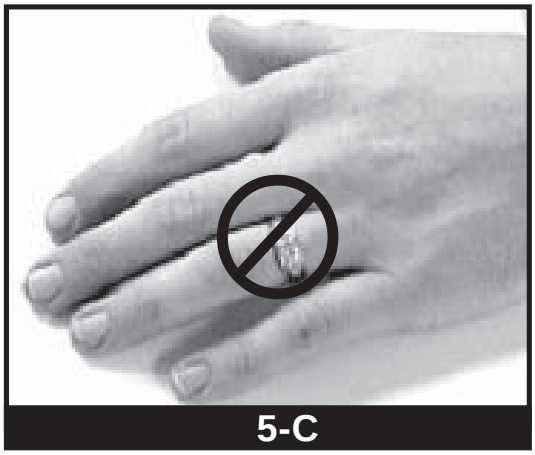
## 5. Personal Protective Equipment.

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

5-B

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

C. The operator should NEVER wear jewelry.



5-C

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

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

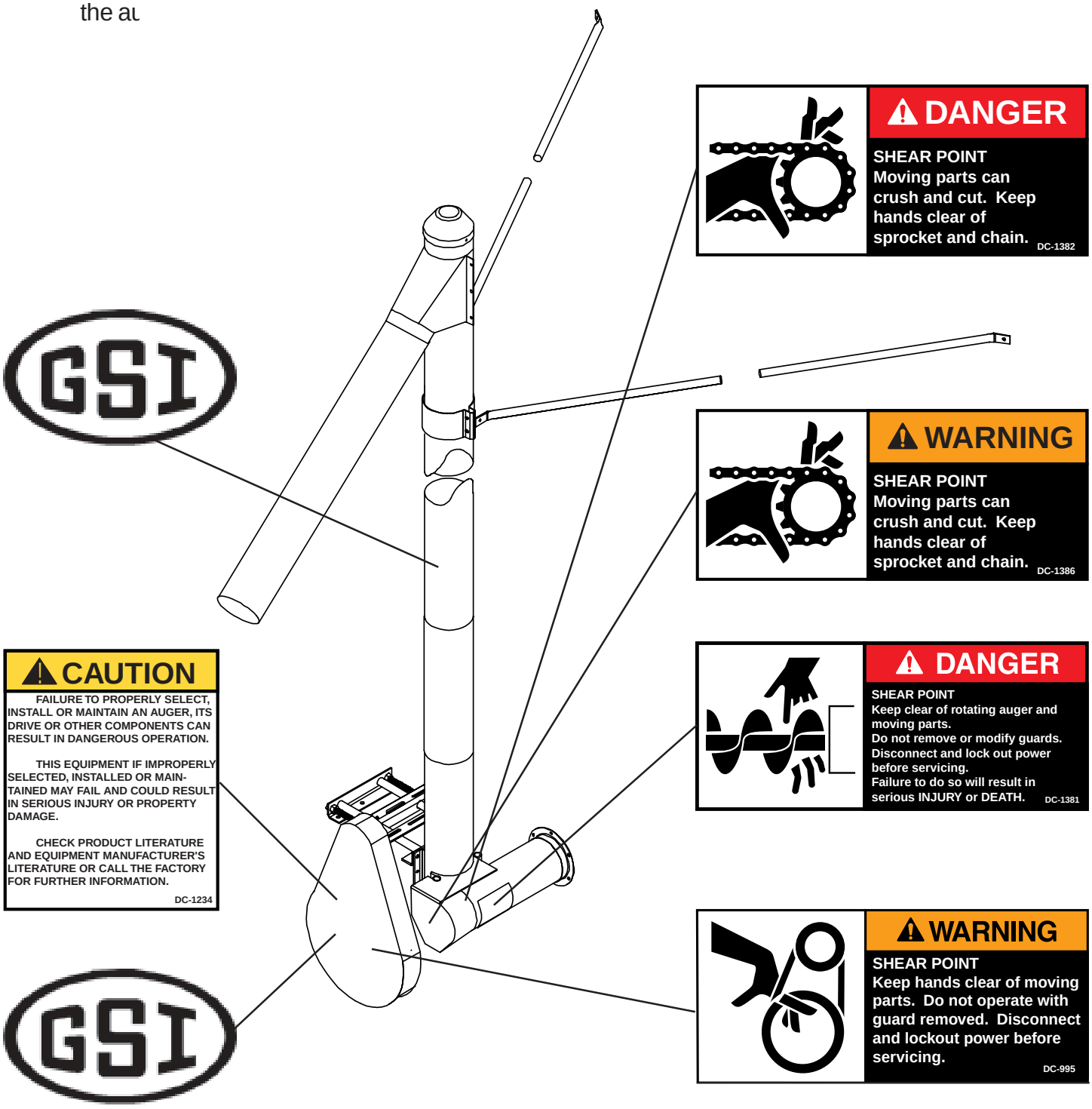
5-D, E

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

5-F

## 6. Decals.

A. The images below show the location of the decals and safety signs which should appear on the au




**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.**

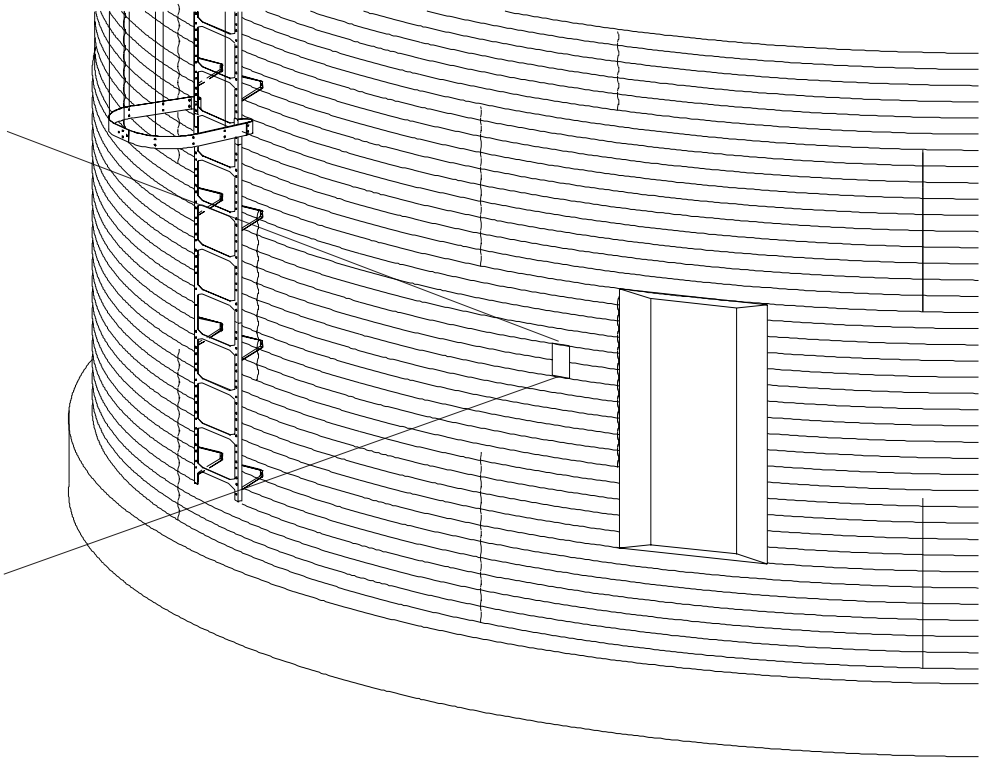
## 6. Decals (cont.)

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.

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

**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**

## 7. 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 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 em ployee is, or will be involved." (Federal Occupational Safety & Health Standards for Agriculture. Subpart D, Section 19287.57 (a) (6).

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'S SIGNATURE |
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## 1. Attach the Horizontal Flighting.

A. Attach the unload auger flighting to the horizontal flighting located in the vertical bin unload auger. Secure using bolt(s) and locknut(s).

**When applicable, unbolt the unload flighting from the direct gear drive center well.**

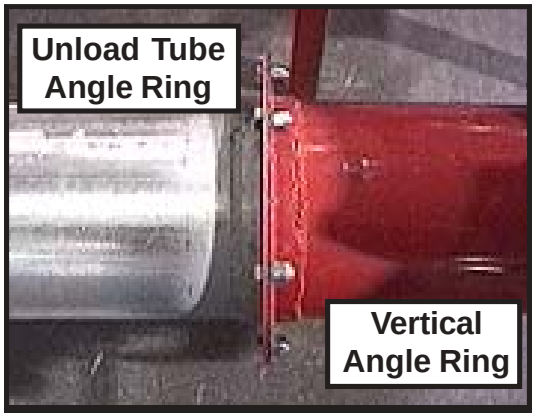
**6" - use one (1) 5/16" x 1-1/2" bolt and locknut Grade 5**
**8" - use two (2) 7/16" x 2-1/2" bolts and locknuts Grade 5**
**10" - use two (2) 1/2" x 2-1/2" bolts and locknuts Grade 5**

**The Horizontal Flight Assembly is already installed in the vertical unit.**

## 2. Attach the Vertical Bin Unload Auger to the Unload Tube.

A. Slide the bin unloading auger flighting into the bin well unloading tube.

B. Bolt the angle ring located on the vertical to the angle ring located on the unload tube. Tighten with a wrench.



2-B

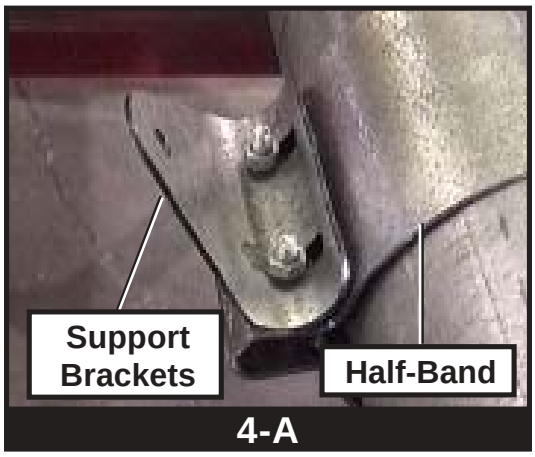
## 3. Adjust the stand.

A. Adjust the stand located on the bottom of the vertical to align the vertical auger with the unload tube and accomodate the weight of the vertical.

3-A

## 4. Attach the Half Bands and Mounting Ears.

A. Place the two (2) half bands around the vertical tube. Put the two support brackets for the telescoping tubes on the back of the half bands and bolt together with u-bolts and locknuts.

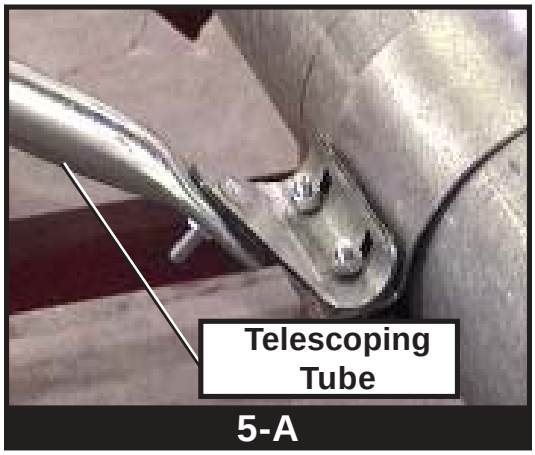


4-A

**6" - use two (2) 5/16" x 1-3/4" x 1-3/4" u-bolts and four (4) 5/16" locknuts**
**8" - use two (2) 5/16" x 1-3/4" x 2" u-bolts and four (4) 5/16" locknuts**
**10" - use two (2) 5/16" x 1-3/4" x 2" u-bolts and four (4) 5/16" locknuts**

## 5. Attach the Telescoping Tubes.

A. Bolt the telescoping tubes to the support brackets located on the half bands. Secure the tubes with two (2) 5/16" x 1-3/4" bolts, lockwashers, flatwashers and nuts.



5-A

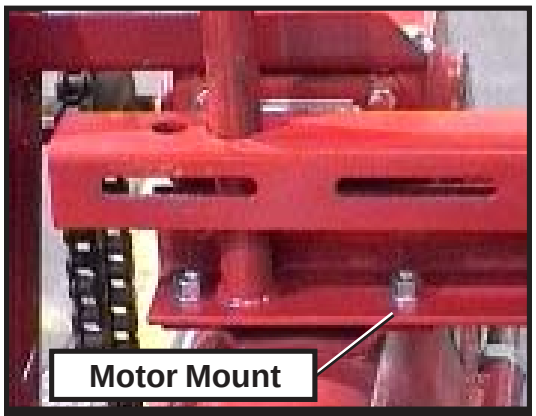
## 6. Attach the Belt Guard Mounting Angle.

A. Attach the belt guard mounting angle to the top two (2) holes located on the gearbox. Secure the mounting angle with two (2) 3/8" x 1" bolts, lockwashers and flatwashers.

6-A

## 7. Install the Motor Mount.

A. Attach the motor mount to the top two (2) holes ***above*** the gearbox located on the horizontal to vertical assembly. Secure it with two (2) 3/8" x 3/4" bolts, lockwashers, flatwashers and nuts.




7-A

## 8. Attach the Support.

A. Attach the support to the two (2) holes located under the adjusting end of the motor mount. Secure using two (2) bolts, lockwashers and nuts. Lower end of support attaches to the lower two holes of the gearbox.


8-A

**Top Holes**

**6" - use two (2) 3/8" x 1" bolts, lockwashers, flatwashers and nuts**
**8" - use two (2) 3/8" x 1" bolts, lockwashers, flatwashers and nuts**
**10" - use two (2) 3/8" x 1" bolts, lockwashers, flatwashers and nuts**

**Bottom Holes**

**6" - use two (2) 3/8" x 1" bolts, lockwashers and flatwashers**
**8" - use two (2) 3/8" x 1" bolts, lockwashers and flatwashers**
**10" - use two (2) 3/8" x 1" bolts, lockwashers and flatwashers**

## 9. Install the Motor (not provided.)

A. Using the chart located on page 1 to choose the correct motor that is necessary for the vertical bin unloading auger. Mount the motor onto the motor mounts.

**Please note: The motor or its hardware is not provided.**

## 10. Install the Belt Guard.

A. Bolt the belt guard to the belt guard mounting angle. Secure it with two (2) 5/16" x 3/4" carriage bolts, lockwashers, flatwashers and nuts.

10-A

## 11. Install the Motor Pulley (not provided.)

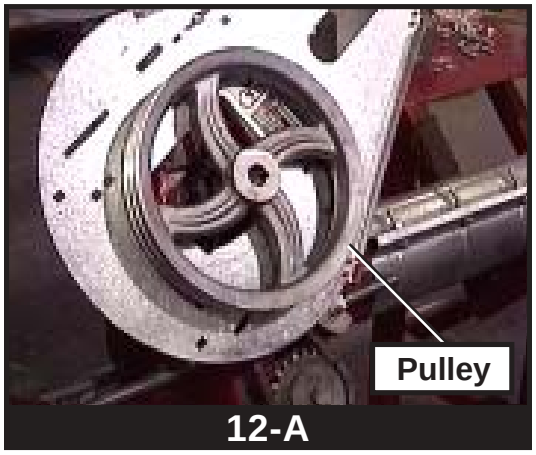
A. Install the motor pulley.

☛ **It is recommended that a 3-1/2" pulley is used on the motor.**

## 12. Install the Pulley.

A. Install the 12" pulley onto the gear box shaft. Place the pulley as close to the sprocket as possible.

☛ **The hub of the pulley should be facing inward.**



12-A

## 13. Install the Drive Chain Shield.

A. Attach the drive chain shield over the drive sprocket of the horizontal tube. Place the slot of the drive chain shield underneath the support stand nut.

| | Part # for the Chain Shield |
|---|---|
| 6" | GK1121 |
| 8" | GK1035 |
| 10" | GK2331 |

13-A

## 1. Perform Pre-start Checks.

**Failure to perform any or all of these pre-start checks may cause damage to the equipment and/or cause SERIOUS INJURY or DEATH to those in the work area.**

**Failure to perform any or all of these pre-start checks may also be a misuse of the equipment. Any misuse of the equipment may void the warranty.**

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.

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

C. Inspect the drive unit for any problems or potential problems.

D. Be aware of any emergency shutdown procedures. Two (2) people must always be in a position where the operation of the equipment can be monitored.

E. Before starting the auger for the first time, make sure that all parts are assembled correctly according to the instructions in this manual.

**Make certain ONLY trained operators are in the work area before operating or moving the machine. Two (2) people must always be in a position where the operation of the equipment can be monitored.**

## 2. Start the Auger.

A. Start the auger.

**DO NOT start or stop the auger while it is under load. Doing so may cause the auger to "jam."**

B. Run the auger through a "break-in" period, if it is being used for the first time or for the first time of the season.

C. Polish the flighting by running the auger at partial capacity until it is smooth, before attempting full capacity.

**Failures may occur if the auger is run full before it has been "polished" during the "break-in" period.**

**NEVER operate the auger empty. Operating augers empty for any length of time will cause excessive wear.**
**NEVER operator the auger at speeds higher than recommended. Auger flight speed in excess of recommended speed causes excessive wear.**

**Be aware of any unusual vibration or noises during the initial startup and "break-in" period. If anything unusual is detected, immediately shutdown the auger, and disconnect and lockout the power supply before servicing.**

## 1. Operate the Auger.

**The auger capacity can fluctuate greatly under varying conditions. Moisture content, different commodities, amount of foreign matter and speeds all play a part in the performance of the auger. Twenty-five percent (25%) moisture may cut capacity by as much as 40% under some conditions.**

A. Make certain there are at least two (2) people in the work area to monitor operations at all times.

B. Visually inspect the auger periodically during operation.

**Be alert for any unusual vibrations, noises and the loosening of any fasteners. If anything unusual is detected, immediately shutdown the auger, disconnect and lockout the power source before servicing.**

C. 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 big loads. If an auger is kept from absolute filling, it will make startup easier and will convey more efficiently.

## 1. Normal Shutdown.

A. Before shutting down the unit, be sure the hoppers and augers are empty.

B. Disconnect and lockout the power source before leaving the work area.

## 2. Emergency Shutdown.

A. Know how to shutdown the auger in case of an emergency.

B. Do not restart the auger while it is under load.

**NEVER start the equipment under load. Doing so may cause damage. This type of damage is considered a misuse of the equipment. Any misuse of the equipment may void the warranty.**

C. Close the bin well control gates.

D. Reconnect and unlock the power source.

E. Clear the auger gradually, until there is no grain and there are no obstructions.

## 3. Storage Preparation.

A. Close all wells to the discharge auger.

B. Be sure the unload tube is empty.

C. Shutdown the auger.

D. Make sure all fasteners are tight.

## 1. Maintain the Auger.

**ALWAYS shutdown and disconnect the power supply before adjusting, servicing or cleaning the equipment.**

A. Use caution when repairing or replacing equipment parts.

B. Make sure ALL decals are legible and tightly attached to the auger. If necessary, replace them **FREE OF CHARGE** by contacting GSI at:

GSI
P.O. Box 20
1004 E. Illinois St.
Assumption, IL 62510
(217) 226-4421

C. Ensure that ALL electric motors, etc. are operating at the proper speed.

D. Maintain proper adjustments on the belt(s).

E. Mount controls for any electric motors at a safe distance from the machine and in a location accessible in case of an emergency.

F. Make sure ALL electrical wiring is not damaged, and that it meets proper wiring codes.

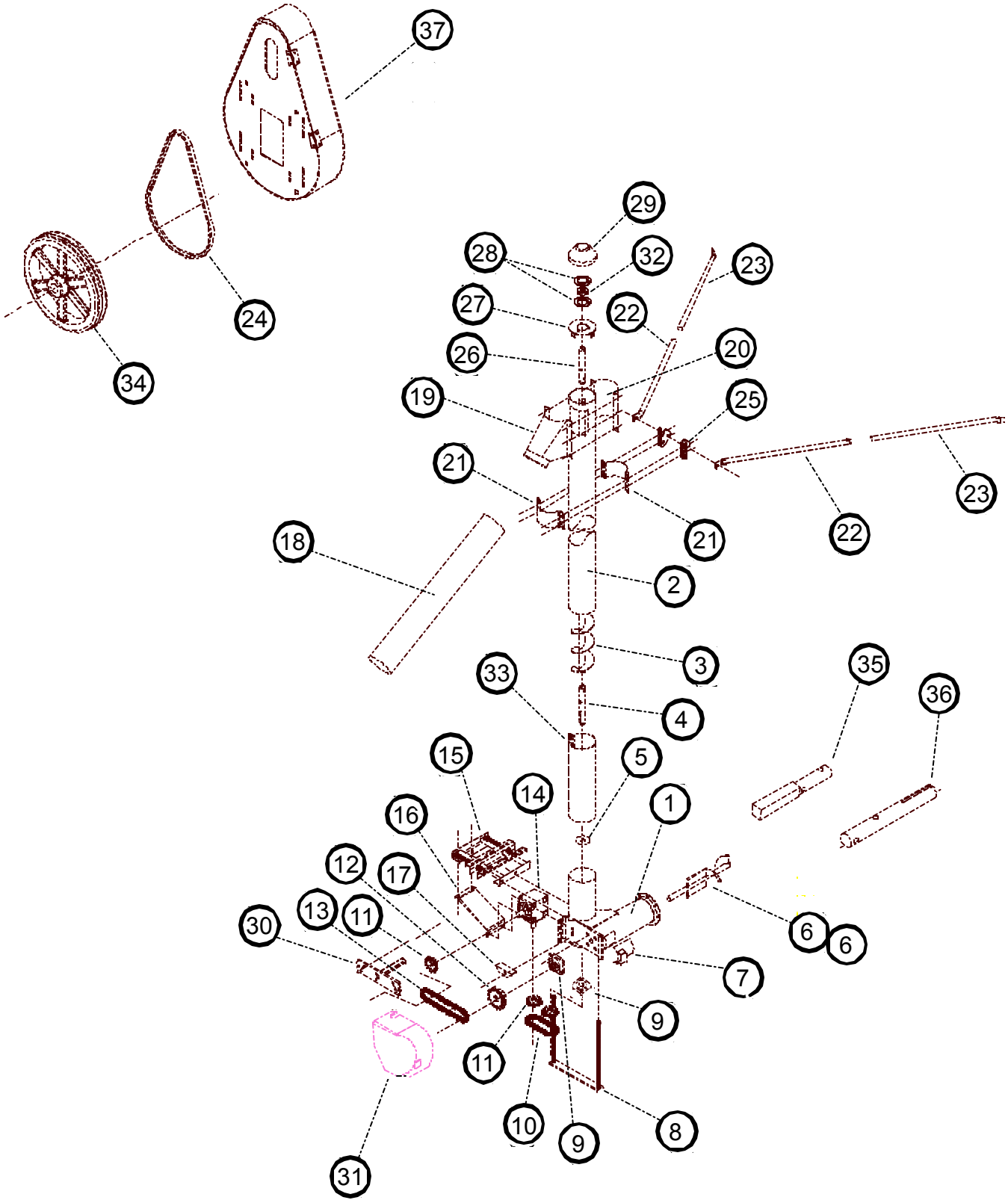
G. Make sure ALL components are in good working condition before use.

H. Make sure all components are in good working condition before use.

I. Grease the bearing at least two (2) times each season.

| Problem | Possible Cause | Solution |
|---|---|---|
| **1. Auger vibration.** | A. Drive belt may be overtightened, putting head stub and flight in a bind. Damage can occur to the auger flighting, thus causing noise. Damage usually is caused from foreign material having been run through the auger. | A1. It may be necessary to remove the flighting for inspection. |
| **2. Low capacity.** | A. The auger may not be getting enough grain. | A1. Check that the intake has not bridged over, restricting flow. The exposed flighting at the auger intake should be covered with grain to achieve maximum capacity. |
| | B. The auger is moving too slowly. | B1. Check the auger speed. Speeds slower than the recommended speed will result in low capacity. |
| **3. Auger plugs.** | A. The auger may be getting too much grain, causing "jamming" inside the housing. | A1. Decrease the amount of grain the auger is gathering. |
| | B. The motor may be too small or wired improperly. | B1. If the motor is a newer lightweight aluminum type, the next larger size should be considered. |
| | C. The grain may be wet. | C1. If wet grain or other hard-to-move material is being augered, use a larger size motor than recommended for normal use. |
| | D. The auger may be jammed with foreign material. | D1. Be sure there is no foreign material in the auger such as sacks, tarp corners, etc. |
| | E. The discharge end may be plugged. | E1. Make sure the discharge end of the auger is not plugged. A plug of the discharge end will cause an auger plug. |

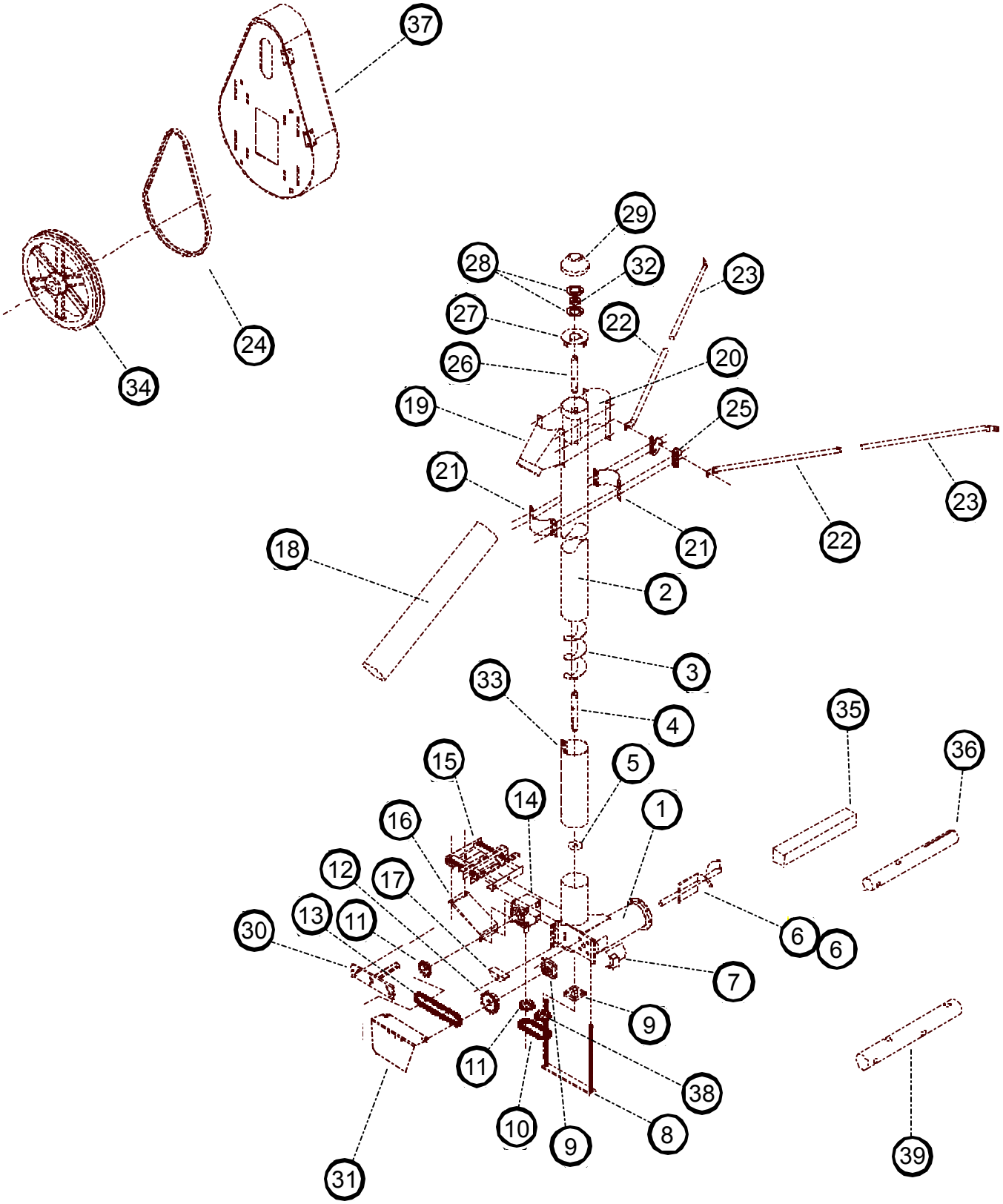
# 6" Vertical Bin Unloading Auger



# 6" Vertical Bin Unloading Auger

| Ref # | Part # | Description |
|---|---|---|
| 1 | GK1044 | Horizontal to Vertical Tube Assembly with Latch and Hole Cover |
| 2 | GK1050G | Vertical Tube |
| 3 | GK1045 | 6" Vertical Flighting |
| 4 | GK1116 | Bottom Drive Stub, 1' x 7-7/8" long |
| 5 | GK1113 | Rubber Gasket, 1" (2.54 cm) I.D. x 3-1/4" (8.26 cm) O.D. |
| 6 | GK1047 | Horizontal Flight Assembly |
| 6 | GK2180 | Horizontal Flight Assembly DGD Sweep |
| 7 | GK1119 | Inspection Hole Cover with 1/2 Hinge and Latch |
| 8 | GK1046 | Stand (with nuts) |
| 9 | GK1049 | 2-hole Flange Bearing - 1" (2.54 cm) Bore w/ L.C. |
| 10 | GK1112 | Roller Chain, lower #50 (33 pitch including connecting link) |
| 11 | GK1014 | 15-tooth Sprocket #50 - 1" (2.54 cm) Bore (Keyway) |
| 12 | GK1110 | 22-tooth Sprocket #50 - 1" (2.54 cm) Bore (Keyway) |
| 13 | GK1111 | Roller Chain, side #50 (53 pitch including connecting link) |
| 14 | GK1007 | A115 1:1 Bevel Gearbox |
| 15 | GK1120 | 6" Motor Mount |
| 16 | GK1036 | Motor Mount Support |
| 17 | GK1020 | Chain Tightener Block |
| 18 | GK1124 | 6" x 3' (.91 m 15.24 cm) Spout Tube |
| 19 | GK1123 | 6" x 45° Spout (less backband) |
| 20 | GK1125 | 6" x 45º Backband for Spout |
| 21 | GK1122 | 6" x 4" wide (10.16 cm) wide Halfband (galvanized) |
| 22 | GK1028 | Telescoping Tube (less setscrew - 28" (71.12 cm) long) |
| 23 | GK1033 | Telescoping Anchor Tube - 26" (66.04 cm) long |
| 24 | GK1308 | B46 Belt |
| 25 | GK1034 | Mounting Ear |
| 26 | GK1117 | Top Stub Shaft, 1" x 7" (2.54 cm x 17.78 cm) long |
| 27 | GK1114 | 6" top Bearing Plate |
| 28 | GK1319 | 3 Hole Flangette for 1" (2.54 cm) |
| 29 | GK1115 | 6" Vertical Cap |
| 30 | GK1029 | Belt Guard Support |
| 31 | GK1121 | 6" Chain Shield |
| 32 | GK1049 | 1" Bearing w/ Lock Collar |
| 33 | GK1048 | 6" Connecting Band |
| 34 | GK1321 | 2B Sheave 12" (30.48 cm) O.D. with 1" (2.54 cm) Bore |
| 35 | GK2020 | Square to Round Connecting Stub DGD Sweep |
| 36 | GK1116 | 6" Drive Stub |
| 37 | GK1454G | Belt Guard Assembly |
| N/S | GK1026 | Latch Anchor Weldment |
| N/S | GK1032 | Square Drive Key - 1/4" (0.64 cm), 1" (2.54 cm) long |
| N/S | GK1058 | Square Drive Key - 1/4" (0.64 cm), 3-3/8" (8.57 cm) long |

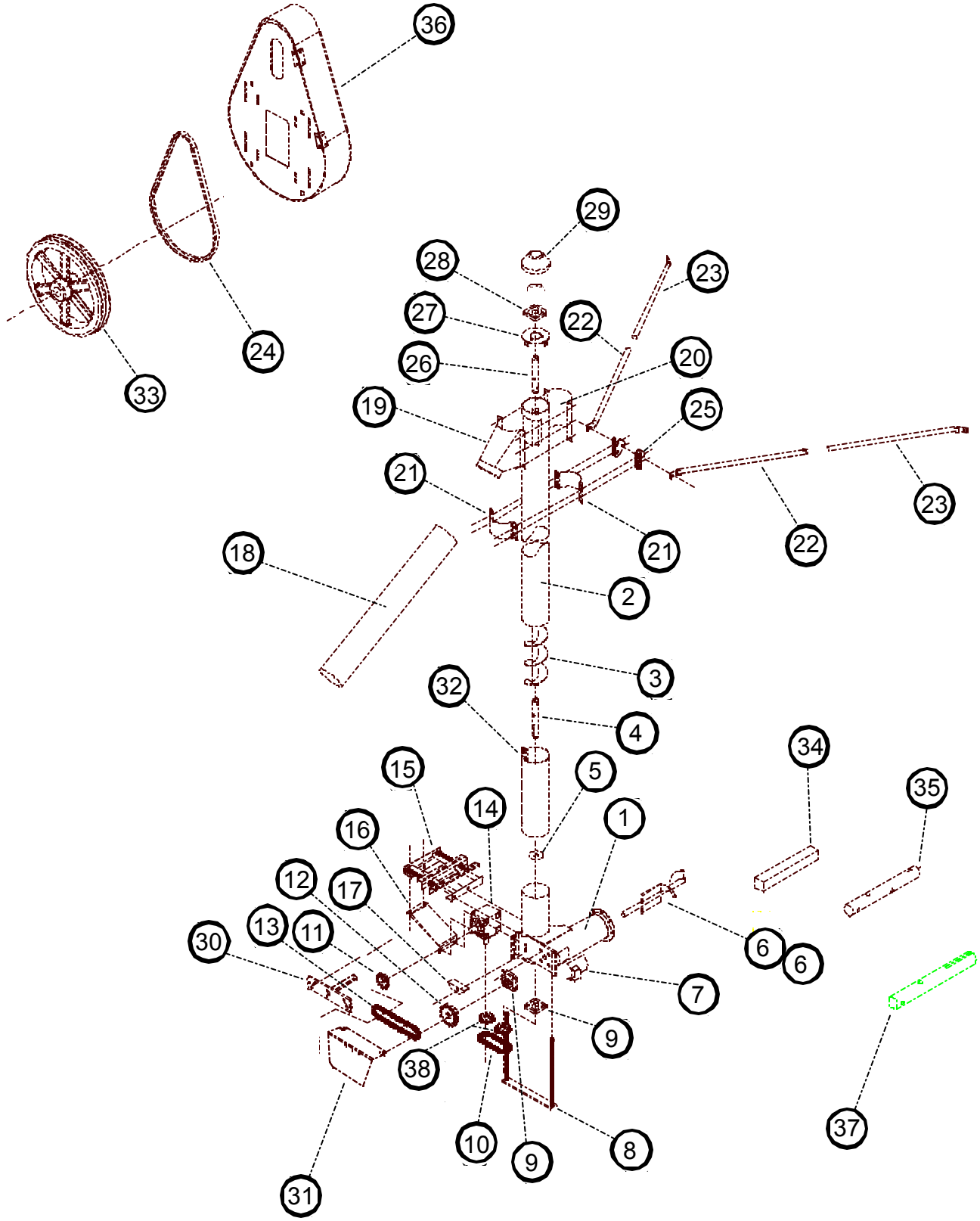
# 8" Vertical Bin Unloading Auger



# 8" Vertical Bin Unloading Auger

| Ref. # | Part # | Description |
|---|---|---|
| 1 | GK1003 | Horizontal to Vertical Tube Assembly with Latch and Hole Cover |
| 2 | GK1019G | 12' 6" (3.66 m 15.24 cm) Vertical Auger Housing |
| 3 | GK1004 | 14' 5" (4.27 m 12.70 cm) Vertical Flighting Assembly |
| 4 | GK1018 | Bottom Drive Stub - 1-1/4" x 8-5/8" (3.18 cm x 21.91 cm) long |
| 5 | GK1113 | Rubber Gasket (bottom seal) 1" (2.54 cm) I.D. x 3-1/4" (8.26 cm) O.D. |
| 6 | GK1005 | Horizontal Flight Assembly |
| 6 | GK2183 | Horizontal Flight Assembly DGD Sweep |
| 7 | GK1025 | Inspection Hole Cover with 1/2 Hinge and Latch |
| 8 | GK1006 | Stand with Nuts |
| 9 | GK1017 | 1-1/4" (3.18 cm) Bearing 4-Hole Flange (greasable) |
| 10 | GK1023 | Roller Chain #50 (40 Pitch including Connecting Link) |
| 11 | GK1014 | 15-tooth Sprocket, #50 x 1" (2.54 cm) Bore (Keyway) (Gearbox) |
| 12 | GK1022 | 22-tooth Sprocket, #50 x 1-1/4" (3.18 cm) Bore (Keyway) |
| 13 | GK1024 | Roller Chain #50 (69 Pitch including Connecting Link) |
| 14 | GK1007 | A115 1:1 Bevel Gearbox |
| 15 | GK1120 | Motor Mount |
| 16 | GK1036 | Motor Mount Support |
| 17 | GK1020 | Chain Tightener Block |
| 18 | GK1039 | 8" x 3' (0.91m 20.32 cm) Spout Tube |
| 19 | GK1038 | 8" x 45° Spout less Back Band |
| 20 | GK1125 | 8" x 45º Back Band |
| 21 | GK1059 | 8" x 4" (10.16 cm) wide Half Band (Galv.) |
| 22 | GK1033 | Telescoping Anchor Tube - 26" (66.04 cm) long |
| 23 | GK1028 | Telescoping Tube less Setscrews - 28" (71.12 cm) long |
| 24 | GK1308 | B46 Belt |
| 25 | GK1034 | Mounting Ear |
| 26 | GK1012 | Top Stub Shaft - 1-1/4" x 6-3/4" (3.18 cm 17.15 cm) long |
| 27 | GK1010 | 8" Top Bearing Plate |
| 28 | GK1009 | 3-Hole Flangette |
| 29 | GK1011 | 8" Vertical Cap |
| 30 | GK1029 | Belt Guard Support |
| 31 | GK1035 | 8" Chain Shield for Vertical |
| 32 | GK1008 | 1-1/4" (3.18 cm) Bearing 3-Hole Flangette with Lock Collar |
| 33 | GK1015 | 8" Connecting Band |
| 34 | GK1321 | 12" (30.48 cm) 2-groove Pulley x 1" (2.54 cm) Bore |
| 35 | GK1872 | Square Connecting Stub DGD Sweep |
| 36 | GK1328 | Round Connecting Stub |
| 37 | GK1454G | Belt Guard Assembly |
| 38 | GK1021 | 15-Tooth Sprocket #50 x 1-1/4" Bore |
| 39 | GK1328 | Connecting Stub |
| N/S | GK1026 | Latch Anchor Weldment |
| N/S | GK1027 | Small Inspection Hole Cover with 1/2 Hinge and Latch |
| N/S | GK1032 | Square Drive Key - 1/4" (0.64 cm), 1" (2.54 cm) long |
| N/S | GK1058 | Square Drive Key - 1/4" (0.64 cm) Side Shaft of Gearbox - 3-3/8" (8.57 cm) long |

# 10" Vertical Bin Unloading Auger



# 10" Vertical Bin Unloading Auger

| Ref. # | Part # | Description |
|---|---|---|
| 1 | GK2314 | Horizontal to Vertical Tube Assembly with Latch and Hole Cover |
| 2 | GK2321G | 10" Vertical Auger Housing |
| 3 | GK2317 | 10" Vertical Flighting Assembly |
| 4 | GK2326 | Bottom Drive Stub - 1-1/4" x 8-5/8" (3.18 cm x 21.91 cm) long |
| 5 | GK1113 | Rubber Gasket (bottom seal) 1" (2.54 cm) I.D. x 3-1/4" (8.26 cm) O.D. |
| 6 | GK2316 | 10" Horizontal Flight Assembly |
| 6 | GK3516 | 10" Horizontal Flight Assembly DGD Sweep |
| 7 | GC04093 | Inspection Hole Cover with 1/2 Hinge and Latch |
| 8 | GK2310 | 10" Stand Weldment |
| 9 | GK1017 | 4-Hole Flangette (greasable) w/L.C. |
| 10 | GK2322 | Roller Chain #50 (46 Pitch including Connecting Link) |
| 11 | GK2323 | 15-tooth Sprocket, #60 x 1" (2.54 cm) Bore (Keyway) (Gearbox) |
| 12 | GK2324 | 22-tooth Sprocket, #60 x 1-1/4" (3.18 cm) Bore (Keyway) |
| 13 | GK2325 | Roller Chain #60 (72 Pitch including Connecting Link) |
| 14 | GK2320 | A101 1:1 Bevel Gearbox |
| 15 | GK2329 | 10" Motor Mount |
| 16 | GK2330 | 10" Motor Mount Support |
| 17 | GK1020 | Chain Tightener Block |
| 18 | GK1885 | 10" x 3' (0.91m 20.32 cm) Spout Tube |
| 19 | GK1881 | 10" x 45° Spout less Back Band |
| 20 | GK2333 | 10" Back Band |
| 21 | GK1301 | 10" x 4" wide Half Band (Galv.) |
| 22 | GK1033 | Telescoping Anchor Tube - 26" (66.04 cm) long |
| 23 | GK1028 | Telescoping Tube less Setscrews - 28" (71.12 cm) long |
| 24 | GK1323 | B48 Belt |
| 25 | GK1034 | Mounting Ear |
| 26 | GK1884 | Top Stub Shaft - 1-1/4" x 9" (3.18 cm 22.86 cm) long |
| 27 | GK2315 | 10" Vertical Head Plate |
| 28 | GK1017 | 4 Hole Flange Bearing w/L.C.1 1/4" Bore |
| 29 | GC01380 | 10" Vertical Cap |
| 30 | GK2328 | Belt Guard Support |
| 31 | GK1331 | 10" Chain Shield |
| 32 | GK1883 | 10" Connecting Band |
| 33 | GK2332 | 3-Groove Pulley 12" x 1" Bore |
| 34 | GK2022 | 10" Square Connecting Stub DGD Sweep |
| 35 | GK1339 | 10" Round Connecting Stub |
| 36 | GK1454G | Belt Guard Assembly |
| 37 | GK1340 | 10" Drive Stub |
| 38 | GK2327 | 19 Tooth Sprocket #60 x 1-1/4" Bore |
| N/S | GK1026 | Latch Anchor Weldment |
| N/S | GK1027 | Small Inspection Hole Cover with 1/2 Hinge and Latch |
| N/S | GK1032 | Key - 1/4" x 1" (0.64 cm) x (2.54 cm) long |
| N/S | GK1058 | Key - 1/4" x 3-3/8" (0.64 cm) x (8.57 cm) long |

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