PNEG-1430

6"-6", 6"-8", 8"-8", 8"-10", and 10"-12" 25 Degree Bin Unloader

Assembly & Operation Manual



6"-6", 6"-8", 8"-8", 8"-10", and 10"-12" 25 Degree Bin Unloader

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Introduction

READ THIS MANUAL carefully to learn how to properly use and install equipment. Failure to do so could result in personal injury or equipment damage.

INSPECT the shipment immediately upon arrival. The Customer is responsible for ensuring that all quantities are correct. Report any damage or shortages by recording a detailed description on the Bill of Lading to justify the Customer's claim from the Transport Firm.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your equipment and should be easily accessible when needed.

WARRANTY is provided as part of the company's support program for customers who use and maintain their equipment as described in the manual. The warranty is explained on the warranty page located on the inside of the back cover.

This warranty provides you the assurance that the company will back its products where defects appear within the warranty period. Should the equipment be abused, or modified to change its performance beyond the factory specifications, the warranty will become void.

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 it's safety instructions is a misuse of the equipment and may 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 Instructions

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.

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.

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.

OPERATE UNLOAD EQUIPMENT PROPERLY

Make sure ALL equipment is locked in position before operating.

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

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

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

NEVER work alone.

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

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

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.

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

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

NEVER drive, stand or walk under the equipment.

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

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



Operate Unload Equipment Safely

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machinery in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your dealer.



Read and Understand Manual.

INSTALL & OPERATE ELECTRICAL EQUIPMENT PROPERLY

To avoid serious injury or death, stay away from unit and make sure everyone is clear of all augers before starting or operating the unit.

Electrical 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.

Disconnect and lock out all power sources before installing wires/cables or servicing equipment .

Do not operate electric motor equipped units until motors are properly grounded.

Disconnect power on electrical driven units before resetting motor overloads.

Do not repetitively stop and start the drive in order to free a plugged condition. Jogging the drive in this type of condition can damage the equipment.



Electric Shock Hazard.

PREPARE FOR EMERGENCIES

Be prepared if fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



Keep Emergency Equipment Quickly Accessible.

WEAR PROTECTIVE CLOTHING Wear close fitting clothing and safety equipment **Eye Protection** appropriate to the job. Safety glasses should be worn at all times to protect eyes from debris. Wear gloves to protect your hands from sharp edges on plastic or steel parts. Gloves A respirator may be needed if a hog house has poor ventilation. Waste fumes can be toxic. Wear hard hat and steel toe boots to help protect your head and toes from falling debris. **Steel Toe** Remove all jewelry. **Boots** Tuck in any loose or dangling shoe strings. Long hair should be tied up and back. Respirator Hard Hat

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 instructions 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.
 - 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. Sub part 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 people 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	Employees Name (printed)	Employees Signature
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	



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

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 1**st design throughout all product lines. Safety is <u>NO ACCIDENT!</u>

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

While it is our main goal 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:

The GSI Group PO Box 20 1004 E. Illinois Street Assumption, IL 62510 Ph: 217-226-4421

SAFETY DECALS

Check components shown below to insure that the safety decals are in place and in good condition. If a decal cannot be easily read for any reason or has been painted over, replace it immediately. Contact your dealer or the manufacturer to order a replacement decal free of charge.



DECALS

SAFETY DECALS

Check components shown below to insure that the safety decals are in place and in good condition. If a decal cannot be easily read for any reason or has been painted over, replace it immediately. Contact your

dealer or the manufacturer to order a replacement decal free of charge.

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.





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

1. Attaching the Adapter Plate (For 6" to 8", 8" to 10", and 10" to 12")

- A. Align studs on Adapter Plate with the holes on the unload tubes angle ring.
- B. Insert studs through the holes and fasten down using nuts from tube end plate. (See Figure 1)

2. Assembling Support Stand

A. Insert Support Stand Base into Support Stand Top and secure with 3/8" x 1-1/4" bolt. (See Figure 2)

3. Attaching Support Stand to Tube

 Place Support Stand and Half Band around Tube and secure together with 5/16" Bolts and Whiz Nuts. (See Figure 3)







4. Attaching Flights

- A. Pull bin unload flight out of unload tube approximately one (1) foot.
- B. Remove Bearing Connecting Stub Bolts and Nuts from Connecting Stub.
- C. Position 25 Degree Unloader Assembly in-line with bin tube.
- D. Align holes in unload flight with holes in Bearing Connecting Stub and slide flight onto stub.
- E. With holes aligned secure with Bearing Connecting Stub Bolts and Nuts that were removed in step 4-B. (See Figure 4)

5. Clamping Unloader to Bin.

- A. With Bolts secured, slide 25° Unloader assembly into position.
- B. Once the 25° Unloader assembly is positioned with its angle ring mated against the Adapter Plate, use the Quick Clamp Band to secure assembly to bin. (See Figure 5)

6. Installing the Motor Mount Adjuster

- A. Place Motor Mount Adjuster between the Head Plate & Back Plate on the Discharge Tube.
- B. Insert Pivot Rod through the Tube plates and Motor Mount Adjuster.
 Secure in place with two (2) 3/16" x 2" cotter pins. (See Figure 6)







ASSEMBLY

7. Installing the Motor Mount Plate

- A. Secure one (1) of the motor mount adjustment nuts and one (1) of the motor mount adjustment washers approximately 3/4 of the way down the motor mount adjuster's threaded shaft.
- B. Once the nut and washer is secure slip the Motor Mount Plate over the adjuster and align the pivot holes with the pivot tube. (See Figure 7-A)
- C. Slide the Motor Mount Pivot Rod through the pivot tube on the Discharge Tube.
- When the pivot rod begins to extend through the pivot tube install the spacers, BETWEEN the Back Plate and the inner face of the Motor Mount Plate. (See Figure 7-B)
- E. Secure Pivot Rod with (2) 3/16" x 2" Cotter Pins
- **NOTE:** The number of spacers will vary depending on size of unloader.

8. Installing the Belt Guard Brackets

- A. Align the holes on the Bearing Plate with the slots on the Belt Guard Mount-ing Brackets.
- B. Secure the Brackets with proper bolts, flat washers, and Whiz nuts. (See Chart Below) (See Figure 8)

Belt Guard Mounting Bracket Bolt						
5/16" - 18 x 1" Grade 5 Bolt	S-1196	6" to 6", 6" to 8" 8" to 8"				
3/8" - 16 x 1-1/4" Grade 5 Bolt	S-2071	8" to 10" & 10" to 12"				

NOTE: DO NOT tighten the bolts completely. The brackets will need to be rotated to align the slot in the Belt Guard with the shafts on the motor and flight.







9. Installing the Pulley

- A. Place and position the key into the keyway located on the Drive Shaft.
- B. Place the pulley onto the Drive Shaft with the Set Screw side of the pulley facing away from the Bearing Plate (See Fig. 9). Position the pulley so that it is as close to the lock collar as possible, but not touching it.
- C. Once the pulley is appropriately positioned, tighten the setscrew with a hex head wrench to secure it to the drive shaft. (See Figure 9)





10. Tightening the Lock Collar

- A. Using a punch and hammer, drive the lock collar clockwise or in the same direction as the shaft rotation. Once the lock collar is set in place, use a hex head wrench to tighten the lock collar by tightening the setscrew.
- **NOTE:** If the lock collar is not turned far enough, the setscrew will not lock it into place.

11. Installing the Motor (Not Provided).

- A. Attach the Motor to the Motor Mount Plate using appropriate bolts, lock washers, and hex nuts. (See Motor Bolt Chart)
- B. Install pulley onto motor shaft making sure that it is aligned with the flight pulley. It may be necessary to move spacers to gain shaft alignment. (See Figure 10)

Motor Bolt Chart					
Motor Size	Hex Bolt Size	Qty.			
56					
143T	5/16" x 1-1/4" - 18	4			
145T					
182T					
184T	$2/0" \times 4.4/4" = 46$	1			
213T	3/0 X 1-1/4 - 10	4			
215T					
254T	$1/2" \times 1.2/4"$ 12	4			
256T	1/2 1 1-3/4 - 13	4			

12. Installing the Belts

- A. Place the belts onto the pulleys.
- B. First screw the lower Motor Mount Adjustment Nut upward, raising the Motor Mount Plate, putting tension on the belts.
- C. Once the desired tension is reached tighten the Upper Motor Mount Adjustment Nut down onto the Motor Mount Plate locking it into place.

13. Installing the Belt Guard.

- A. With the belts properly tensioned remove the bottom Belt Guard cover and slip Belt Guard down over motor shaft.
- B. Bolt the Belt Guard to the Belt Guard Mounting Brackets, the brackets should still be loose at this time.
- C. Align the motor shaft and the Flight Drive Shaft in the Belt Guard's slot, making sure that the Belt Guard DOES NOT contact either pulley or shaft, and tighten down the Belt Guard Mounting Brackets to the Bearing Plate. (See Figure 13)
- D. Once the brackets are tightened slide the bottom cover back into place and secure with supplied bolt.



1. Electric Drive Motors.



A. Knowing the bin size and the length of flighting to be used in the unloading tube will be necessary to determine how much horsepower is required for the job.

B. Use the chart below to determine the size of motor required. Use a larger motor when encountering high moisture or when high capacity is required.

25°	Grain Bin Diameter									
Horsepower	15' 18' 21' 24' 27' 30' 33' 36' 42'								48'	
6"	2	2	3	3	3	3	5	5	-	-
8"	3	3	5	5	5	7-1/2	7-1/2	7-1/2	7-1/2	7-1/2
10"	-	-	-	5	5	7-1/2	7-1/2	7-1/2	10	10

Note: For high capacity or high moisture, use one size larger motor.

Longer Belt Note: Longer belts may be required when using larger framed motors due to high capacity or high moisture applications.

C. The following horsepower recommendations are for augering fairly dry grain. Use an electric motor of the proper size that operates at 1750 RPM. Motor pulleys are not furnished with the auger.

D. A magnetic starter should be used for the operator's protection and for the protection 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. Perform Pre-start Checks.



- 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. 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.

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

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.

CAUTION

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.

CAUTION

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.



1. Operate the Auger.



- 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.

SHUTDOWN

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.
- 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.

CAUTION

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.

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 your dealer or the manufacturer.
- 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. Check the auger flighting to make sure it is in good working condition.
- I. Check the internal bearing bracket, bearing and universal joint to make sure they are in good working order.
- J. Grease bearing at least two (2) times each season.

25° UNLOADER PARTS

	25° Unloader Parts							
Ref #	Description	Part #	System	Ref #	Description	Part #	System	
		GK1280	6" to 8"	12	Hanger Bearing Lock Washer			
1	Adapter Plate	GK1298	8" to 10"		5/9" Look Machor	\$ 2200	6" to 6",6" to 8",	
		GK2013	10" to 12"			5-3208	8" to 8" & 8" to 10"	
		GK1013	6" to 6"		3/4" Lock Washer	S-233	10" to 12"	
2	Quick Clamp Band	GK1279	6" to 8" & 8" to 8"		Unload Tube			
_	Quick olamp Balla	GK1299	8" to 10"		6" 25 Deg Tube Assembly	GK7072	6" to 6"	
		GK2012	10" to 12"	13	8" 25 Deg Tube Assembly	GK7073	6" to 8" & 8" to 8"	
	Bearing Connecting Stub				10" 25 Deg Tube Assembly	GK7074	8" to 10"	
	1" x 7-7/8"	GK5706	6" to 6"		12" 25 Deg Tube Assembly	GK7075	10" to 12"	
3	1" x 8-1/2"	GK7241	6" to 8"		Stand Connecting Band Bolts			
	1-1/4" x /-//8"	GK1283	8" to 8"	14	5/16" - 18 x 1-1/2" Grade 5 Bolt	S-2741	6" to 6",6" to 8",	
	1-1/4" x 9"	GK7240	8" to 10"				8" to 8" & 8" to 10"	
	1-1/2" X 9"	GK7242	10° to 12°		5/16" - 18 x 1-3/4" Grade 5 bolt	S-7149	10" to 12"	
	Bearing Connecting Stub Bolts	0.0700			Half Band			
4	3/8" - 16 x 2-1/2" Grade 5 Bolt	S-6762	6" t0 6" & 6" t0 8"		6" x 4" 12GA	GK1122	6" to 6"	
	7/16" - 14 x 3" Grade 5 Bolt	S-8316	8" to 8" & 8" to 10"	15	8" x 4" 12GA	GK1059	6" to 8" & 8" to 8"	
	1/2" - 13 x 3-1/2" Grade 5 Bolt	S-8314	10" to 12"		10" x 4" 12GA	GK1301	8" to 10"	
	Bearing Connecting Stub Nuts	0.007/			12" x 4" 12GA	GK2014	10" to 12"	
5	3/8" - 16 Stover Nut	S-8251	6" to 6" & 6" to 8"		Motor Mount Adjustment Washer			
	7/16" - 14 Stover Nut	S-8317	8" to 8" & 8" to 10"	16	3/4" Flat Washer	S-866	6" to 6"	
	1/2" - 13 Stover Nut	S-8315	10" to 12"	_	1" Flat Washer	S-7835	6" to 8",8" to 8",	
	U-Joint Pin						8" to 10" & 10" to 12"	
6	5/16" x 1-3/4" Rolled Pin	S-8397	6" to 6", 6" to 8"		Motor Mount Adjustment Nut			
		0 70 45	& 8" to 8"	17	3/4" - 10 Hex Nut	S-234	6" to 6"	
	3/8" x 2-1/2" Rolled Pin	5-7245	8° to 10° & 10° to 12°		1" - 8 Hex Nut	S-240	6" to 8" , 8" to 8" ,	
7		0.0100	10" to 10"			01/7070	8" to 10" & 10" to 12"	
	1/4" X 1-1/2" Square Key	5-9169	10° to 12°	10		GK7052	6" to 6"	
		GC06392		18	Motor Mount Plate	GK6986	6" to 8", 8" to 8",	
8	Hanger Bearing	GC06394				01/7000	8" to 10" & 10" to 12"	
		GC06396		10		GK7060	6" to 6"	
	Compositing Stub	GC06398	10° to 12°	19	Motor Mount Adjustment Weldment	GK6942	6" to 8", 8" to 8",	
	Connecting Stub						8" to 10" & 10" to 12"	
0	1" x 6"	GK1267		20	Motor Mount Adjustment Pivot Rod	GK7012	6" to 8", 8" to 8",	
9	1 1/4" × 6 1/2"	CK1200	& 8 10 8	- 04		0.0004	8" to 10" & 10" to 12"	
		GK 1290	0 10 10 10" to 12"	21	3-16" x 2" Cotter Pin	S-6994	ALL	
	1-1/4 (0 2 x 0-1/2	GK2000	10 10 12	22	Motor Mount Plate Divet Ded	GK7058		
10	0- Joint		6" to 6" 6" to 9"	22	Motor Mount Plate Pivot Rod	GK7013	6" 10 8" , 8" 10 8" , 0" to 40" 8 40" to 40"	
	1" Bore x 5" Long	GK1266	0 100 , 0 100				8" to 10" & 10" to 12"	
	1 1/4" Poro x 7 " Long	CK1201	23		Pivot Spacer Tube	GK7014	0 (08 ^{°°} , 8 ^{°°} (08 ^{°°} ,	
	1-1/4" Bore w/ Key Moy x 7 " Long	GK 1291	10" to 12"		-			
11	Hanger Bearing Polt	GR2009	10 10 12	24	Polt Cuard	GK7005		
	nanger bearing bolt	S-7886	6" to 6" 6" to 9"	24	Beit Guard	01/7000	8 10 8 & 8 TO 10"	
	5/8" - 11 x 1-3/4" Grade 8 Bolt					GK/068	10 10 12	
		0.000	8" to 8" & 8" to 10"					
	3/4" - 10 x 2" Grade 8 Bolt	5-869	10" to 12"					

25° UNLOADER PARTS



25° UNLOADER PARTS (CONT.)

	25° Unloader Parts							
Ref #	Description	Part #	System	Ref #	Description	Part #	System	
	Sheave				Flight Connection Nuts			
	12" Diameter x 1" Bore 2 Belt	GK1321	6" to 6"		3/8" - 16 Stover Nut	S-8251	6" to 6"	
	12" Diameter x 1-1/4" Bore 2 Belt	GK1335	6" to 8" , 8" to 8" ,	27	7/16" 14 Stover Nut	C 0217	6" to 8" & 8" to 8"	
25	15" Diameter x 1-1/2" Bore 2 Belt	01/40.45	8" to 10" 2 Belt	37	7/16 - 14 Stover Nut	3-0317	8" to 10" (Conn. Shaft)	
		GK 1345	10" to 12" 2 Belt		1/2" - 13 Stover Nut	S-8315	8" to 10" (Drive Shaft)	
	15" Diameter x 1-1/2" Bore 3 Belt	CK1304	8" to 10" 3 Belt		5/8" - 11 Stover Nut	S-8606	10" to 12"	
	13 Diameter x 1-1/2 Dole 3 Deit	GK 1304	10" to 12" 3 Belt		Bearing Nuts			
	Sheave Key				7/16" - 14 Hex Nut	S-860	6" to 6"	
26	1/4" x 2" Key	S-4513	6" to 6", 6" to 8"	38	1/2" - 13 Hex Nut	S-7510	6" to 8" , 8" to 8"	
		0.0404	8" to 8"			0 4440	8" to 10"	
	3/8" x 3" Key	S-9181	8" to 10" & 10" to 12"		5/8" - 11 Hex Nut	S-4110	10" to 12"	
		GK7062	6" t0 6"		Bearing Lock Washers	0 704 4	0" += 0"	
27	Belt Guard Mounting Brackets	GK7006	6" t0 8" & 8" t0 8"	20	7/16" LOCK Washer	5-7014		
	-	GK7018	8 10 10	39	1/2" Lock Washer	S-236	0 10 8 , 8 10 8 9" to 10"	
	Polt Cuard Mounting Procket Polt	GK7065	10 to 12		E/0" Look W/oobor	6 2200	8 10 10 10" to 12"	
	Ben Guard Mounting Bracket Bon		6" to 6" 6" to 8"		5/6 LOCK Washel	3-3200	10 10 12	
28	5/16" - 18 x 1" Grade 5 Bolt	S-1196	0 100,0 100 9" to 9"		1" 2 Holo Elongo w/ Look Collor	CK1040	6" to 6"	
	3/8" - 16 x 1-1/4" Grade 5 Bolt	S-2071	0 10 0 8" to 10" & 10" to 12"	40	1 2 Hole Flange w/ Lock Collar	GK 1049	6" to 8" & 8" to 8"	
	Belt Guard Mounting Bracket Washer	3-2071		-10	1-1/2" 4 Hole Flange w/ Lock Collar	GK13/3	8" to 10"	
	ben Guaru Mounting Bracket Washer		6" to 6" 6" to 8"		2" 4 Hole Flange w/ Lock Collar	GK 2004	10" to 12"	
29	5/16 Flat Washer	S-845	8" to 8"		Bearing Plate Bolts	0112004	10 10 12	
	3/8" Flat Washer	S-248	8" to 10" & 10" to 12"		Bearing Flate Boits		6" to 6" 6" to 8"	
30	3/8" - 16 x 1" Grade 5 Bolt	S-9065		41	5/16" - 18 x 1" Grade 5 Bolt	S-1196	8" to 8"	
	Bearing Plate Nut	0 0000			3/8" - 16 x 1" Grade 5 Bolt	S-7469	8" to 10" & 10" to 12"	
	Bearing Flate Nut		6" to 6" 6" to 8"		GK7061	6" to 6"		
31	5/16" - 18 Whiz Nut	S-3611	8" to 8"			GK6987	6" to 8" & 8" to 8"	
	3/8" - 16 Whiz Nut	S-968	8" to 10" & 10" to 12"	42	Bearing Plate	GK7017	8" to 10"	
		GK2825	6" to 6"			GK7064	10" to 12"	
		GK1278	6" to 8" & 8" to 8"		Bearing Bolts			
32	Support Stand Top	GK1300	8" to 10"		7/16" - 14 x 1-1/4" Grade 5 Bolt	S-3886	6" to 6"	
		GK2011	10" to 12"	43	1/2" 12 x 1 1/2" Crode 5 Pet	C 0760	6" to 8", 8" to 8"	
33	Support Stand Base	GK1277	ALL		1/2 - 13 x 1-1/2 Grade 5 Bolt	3-0700	8" to 10"	
34	5/16" - 18 Whiz Nut	S-3611	ALL		5/8" - 11 x 2" Grade 5 Bolt	S-8399	10" to 12"	
	Flight Connection Bolts				Discharge Flight			
	3/8" - 16 x 2-1/2" Grade 5 Bolt	S-6762	6" to 6"		6" 25 Degree Weldment	GK2827	6" to 6"	
35	7/16" - 14 x 3" Grade 8 Bolt	S-8316	6" to 8" , 8" to 8" ,	44	8" 25 Degree Weldment	GK1268	6" to 8" & 8" to 8"	
55		0 0010	8" to 10" (Conn. Shaft)		10" 25 Degree Weldment	GK6396	8" to 10"	
	1/2" - 13 x 3-1/2" Grade 8 Bolt	S-8314	8" to 10" (Drive Shaft)		12" 25 Degree Weldment	GK2001	10" to 12"	
	5/8" - 11 x 4" Grade 5 Bolt	S-8345	10" to 12"	45	3/8" -16 x 1-1/4" Grade 5 Bolt	S-2071	ALL	
	Drive Shaft				Belts			
	1" x 10"	GK2025	6" to 6"		B48 V-Belt	GK1323	6" to 6"	
36	1-1/4" x 10-1/2"	GK1331	6" to 8" & 8" to 8"	46	B50 V-Belt	GK1952	6" to 8" & 8" to 8"	
	1-1/2" x 11-1/2"	GK1289	8" to 10"		B57 V-Belt	GK1346	8" to 10"	
	2" x12"	GK2006	10" to 12"		B62 V-Belt	GK2546	10" to 12"	

25° UNLOADER PARTS



TROUBLESHOOTING

Problem	Possible Cause	Solution			
1. Auger vibration.	A. Drive belt may be overtight- ened, 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. A2. Adjust the drive belt to the proper tension. 			
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 cov- ered 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 "jam- ming" 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 light- weight 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.			

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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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