

# 8" Commercial Vertical Replacement Drive Kit

Installation Manual

**PNEG-1555**

**Date: 04-23-07**

GSI GROUP



PNEG-1555



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### 1. 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.

## 2. SAFETY

### 2.1 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

### 2.2 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**

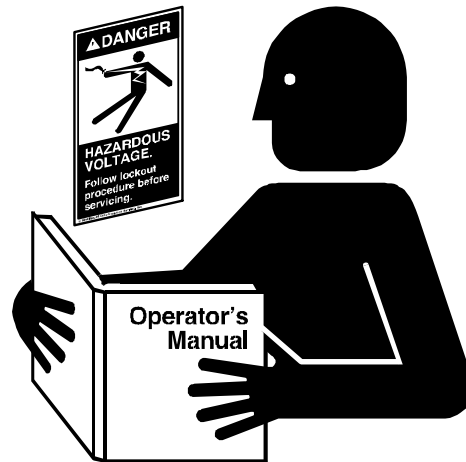
## Follow Safety Instructions

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**

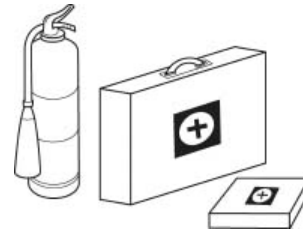
## Safety

### 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.



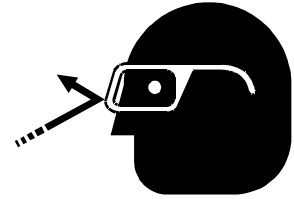
**Keep Emergency Equipment Quickly Accessible.**

### Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Safety glasses should be worn at all times to protect eyes from debris.

#### Eye Protection



Wear gloves to protect your hands from sharp edges on plastic or steel parts.

#### Gloves



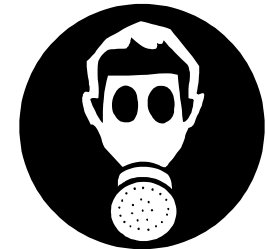
Wear steel toe boots to help protect your toes from falling debris.

#### Steel Toe Boots



A respirator may be needed if a hog house has poor ventilation. Waste fumes can be toxic.

#### Respirator



Remove all jewelry.

Tuck in any loose or dangling shoe strings.

Long hair should be tied up and back.

Wear hard hat to help protect your head.

#### Hard Hat





## 2.3 Operator Qualifications

1. 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.
  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. Sub part D, Section 19287.57 (a) (6).
2. 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.

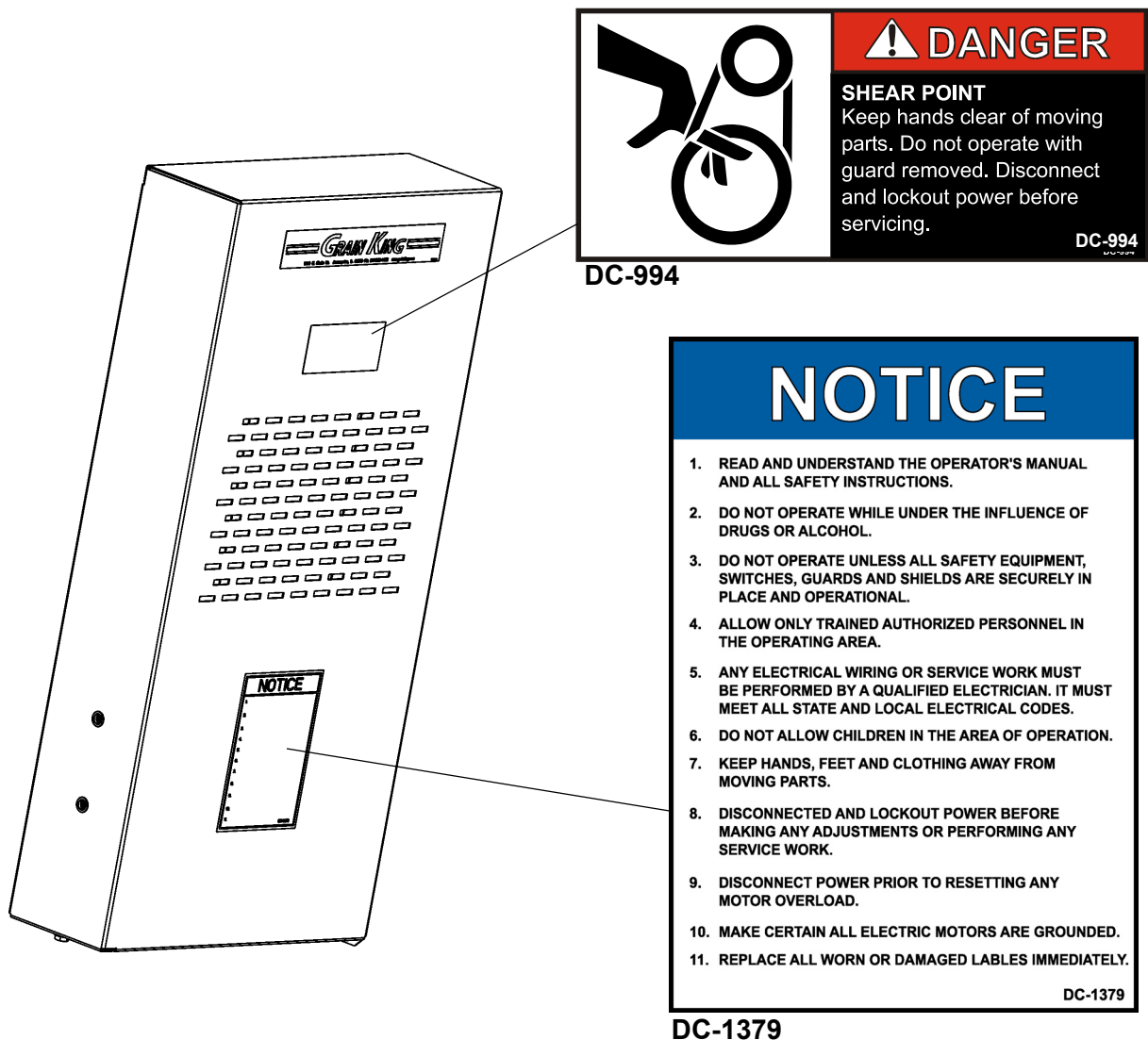
Date	Employees Name (Printed)	Employees Signature
	1	
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### 3. SAFETY DECALS

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.

**Contact:**

The GSI Group  
1004 E. Illinois Street  
Assumption, IL 62510  
Ph: 1-217-226-4421



#### Decal List

Part #	Description	Size
DC-994	Danger - Shear Point	4-1/2" x 2"
DC-1379	Notice	5-1/8" x 7-3/8"

## 4. INSTALLATION

### 1. Prepare the Powerhead.

- A. Disconnect and lockout all Power to the 8" Commercial Double-Drive Vertical Unload Auger.



**A main power disconnect switch capable of being locked only in the off position should be used. The Switch should be locked out whenever work is being done on the Powerhead.**

- B. After the Power has been disconnected and locked out, remove the existing Belt Guard Assembly on the Horizontal Drive.
  - a. Open the existing Belt Guard.
  - b. Adjust the Motor Mount Assembly to relieve the tension on the Drive Belts.
  - c. Remove the Drive Belts.
  - d. Remove the Motor Pulley and Drive Sheave.
  - e. Unbolt and remove the existing Belt Guard Assembly.
- C. Remove the Horizontal Drive Motor from the Powerhead.
- D. After the motor has been removed, loosen and remove the 3/4" Hex nut underneath the Motor Mount Sides, holding down the Motor Mount Assembly.

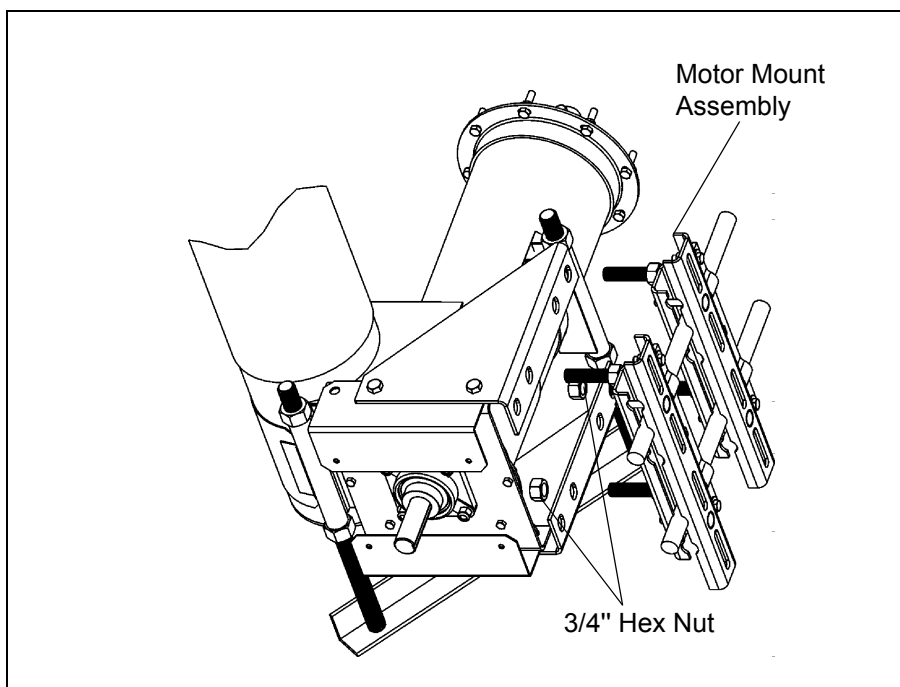


Figure 4A

## Installation

- E. Remove the Motor Mount Assembly.
- F. Unbolt the four (4) 1/2" x 1" Hex bolts, lock washers, and Hex nuts, and remove the existing Belt Guard Brackets and Motor Mount Sides.

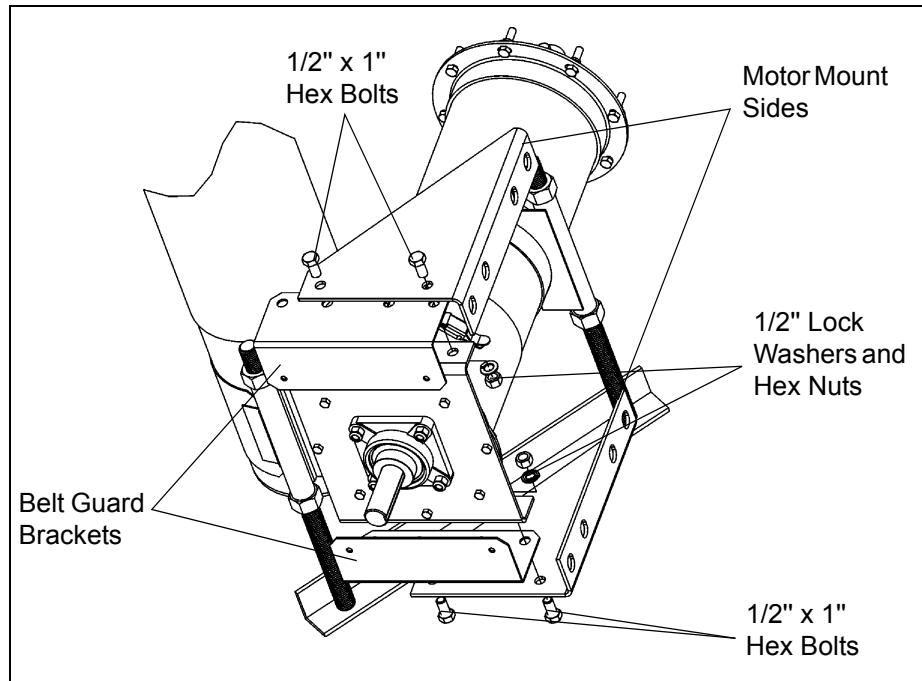


Figure 4B

- G. Loosen and remove the Lock Collar on the 1-1/4" Four (4) Hole Flange Bearing.

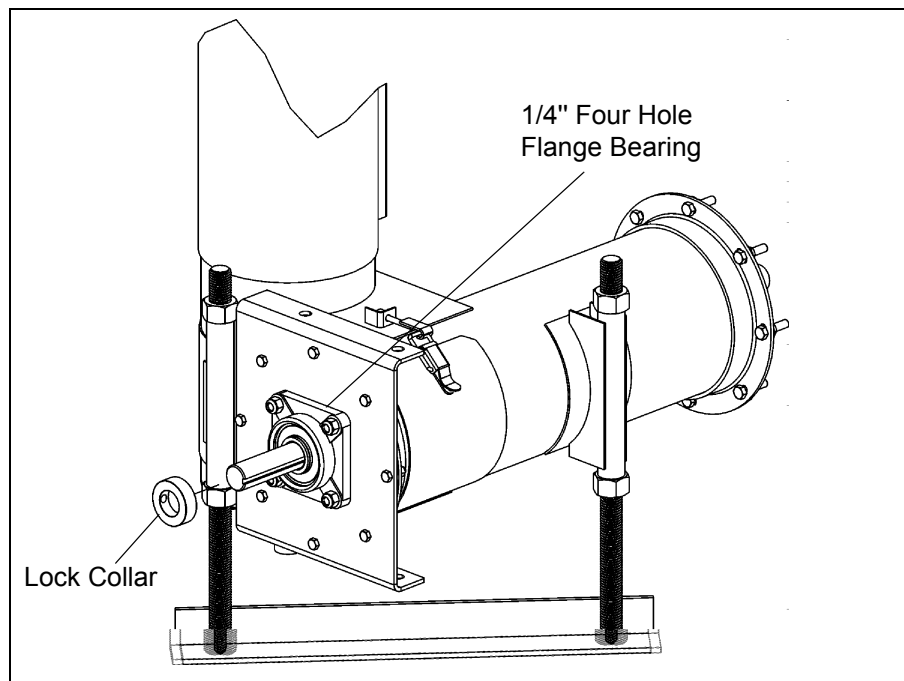
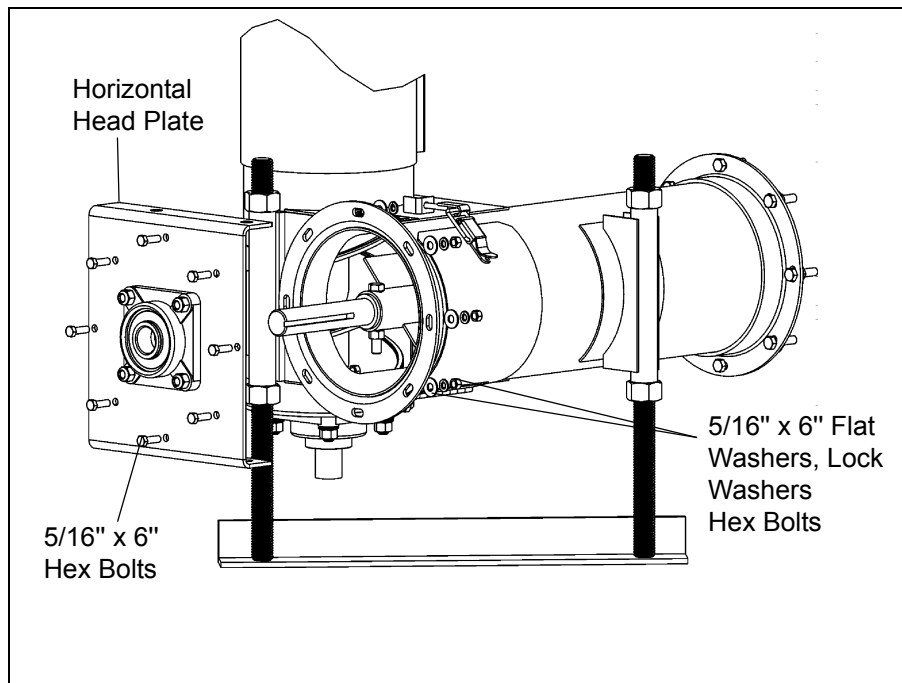


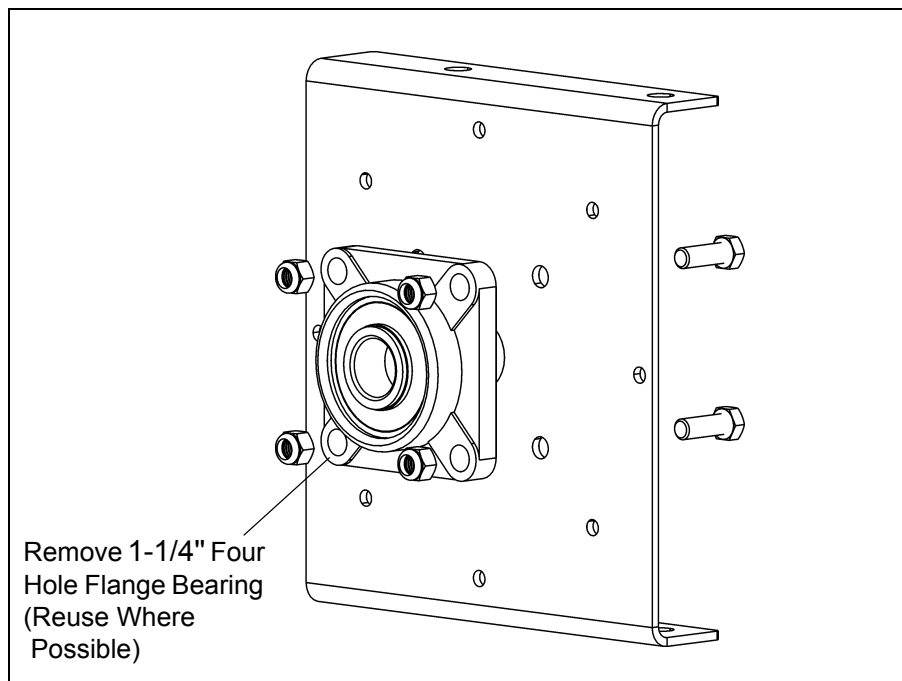
Figure 4C

- H. Remove the Horizontal Head Plate from the Vertical Auger by removing the eight (8) 5/16" x 1" Hex bolts, flat washers, lock washers and Hex nuts.



**Figure 4D**

- I. Unbolt and remove the 1-1/4" Four (4) Hole Flange Bearing. Where possible, this Bearing will be reused with the new Horizontal Drive parts.



**Figure 4E**

## Installation

### 2. Assembling the Motor Mount Plate to the new Head Plate.

- A. Position the Motor Mount Plate over the new Head Plate so that the Motor Mount Plate is almost flush with the new Head Plate, and so the Curved Side of the Motor Mount Plate is on the Left Side of the new Head Plate.

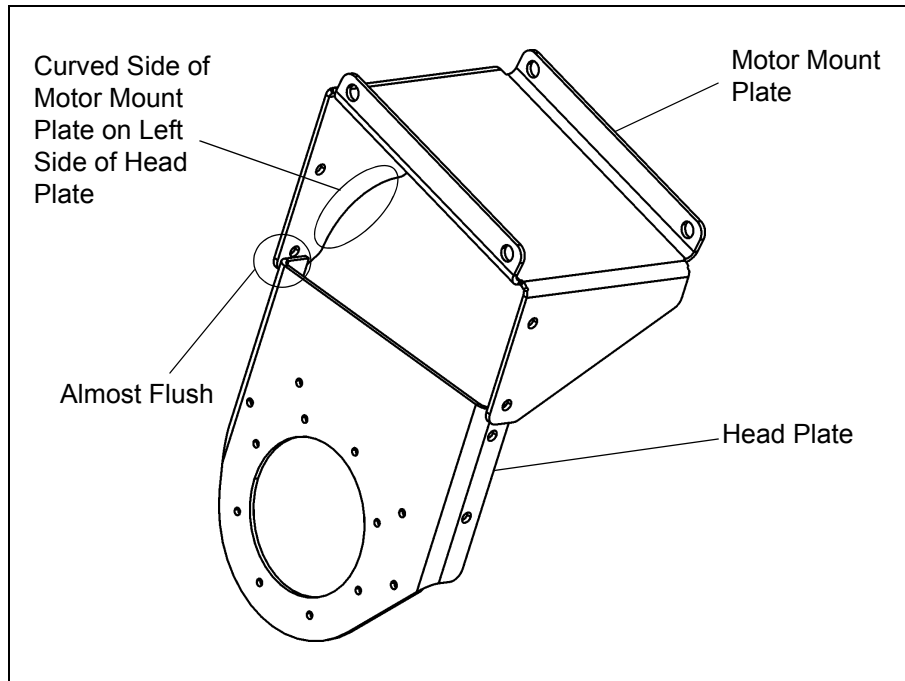


Figure 4F

- B. Bolt the Motor Mount Plate to the Head Plate using four (4) 1/2" x 1-1/2" Hex bolts and Serrated Flange nuts.

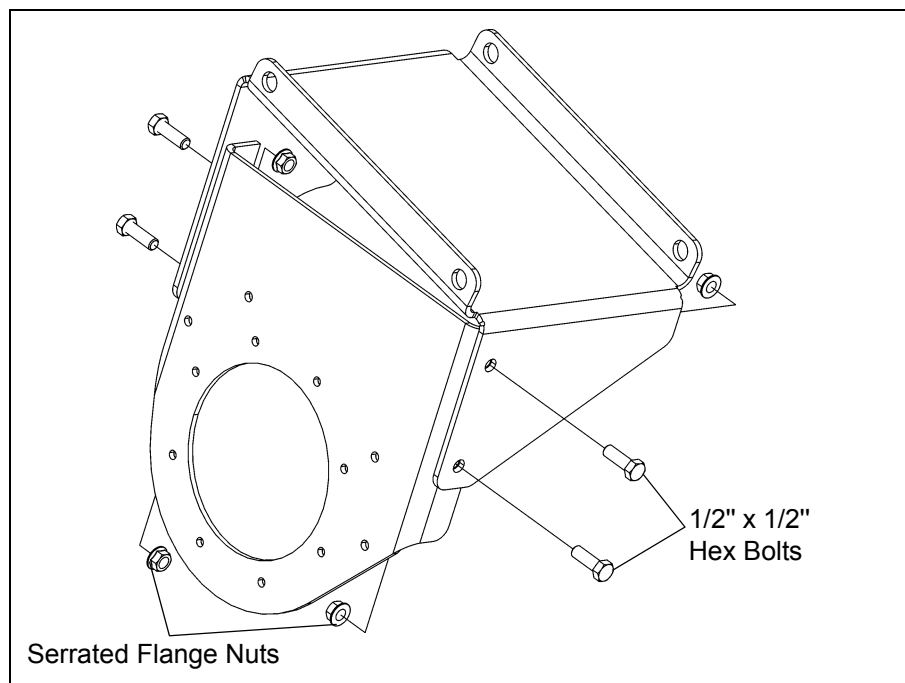
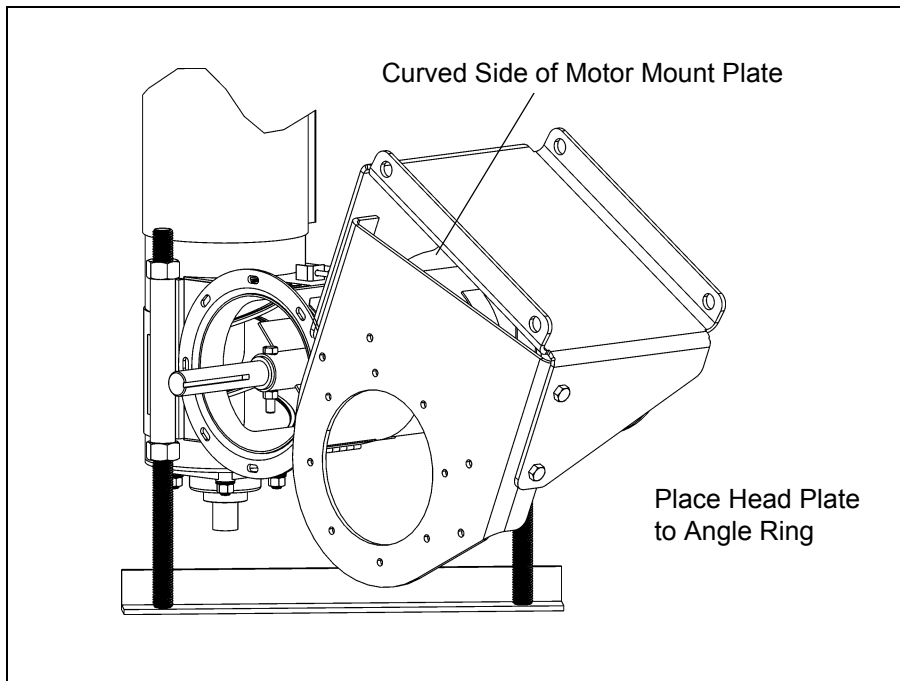


Figure 4G

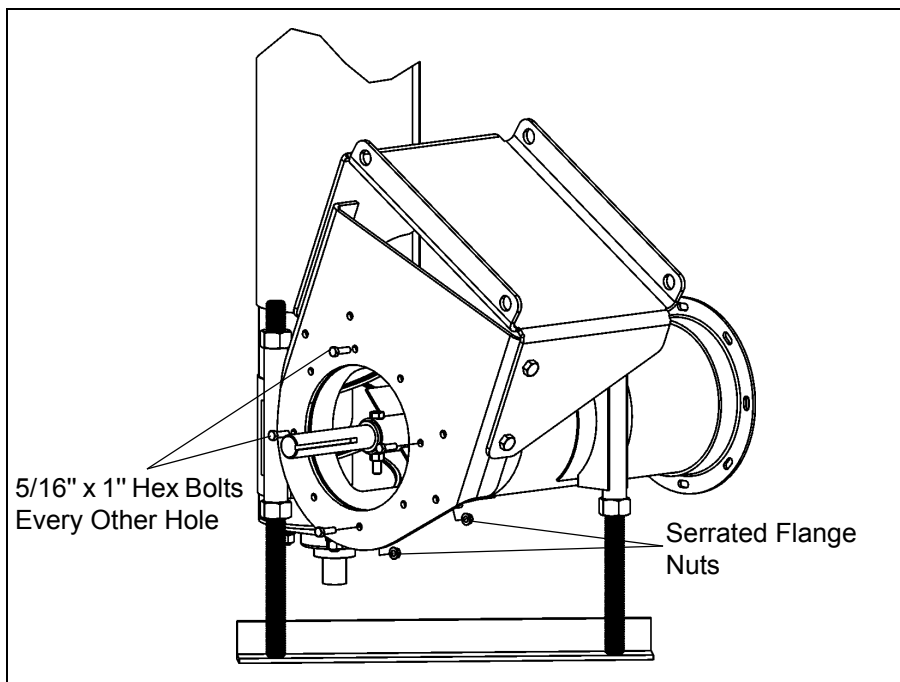
### 3. Installing the Head Plate Assembly to the Auger.

- A. Place the Head Plate Assembly against the Angle Ring on the Horizontal Tube.



**Figure 4H**

- B. Rotate the Head Plate Assembly so that the Curved Side of the Motor Mount Plate is as close as possible to the Vertical Connecting Band, while making sure that the Mounting Holes in the Head Plate still align with the Mounting Holes in the Angle Ring.



**Figure 4I**

## Installation

- C. Bolt the Head Plate Assembly to the Angle Ring on the Horizontal Tube using four (4) 5/16" x 1" Hex bolts and Serrated Flange nuts. Use every other hole to attach the Assembly to the Tube.

**Note:** *Where the first Bolt and Nut is placed in the Head Plate and Angle Ring is irrelevant. It is important to use every other Mounting Hole in the Head Plate and Angle Ring.*

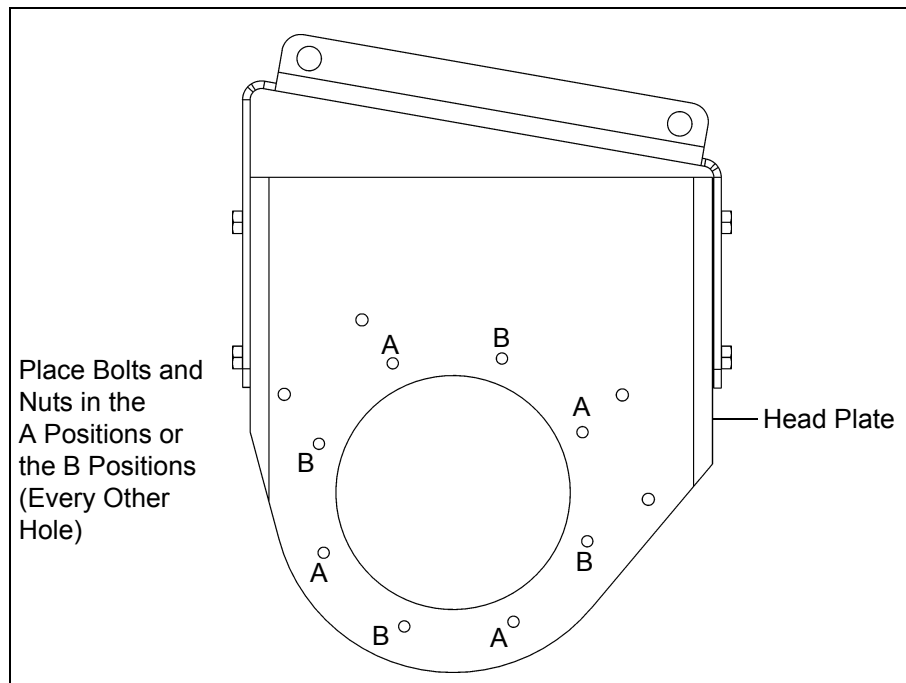
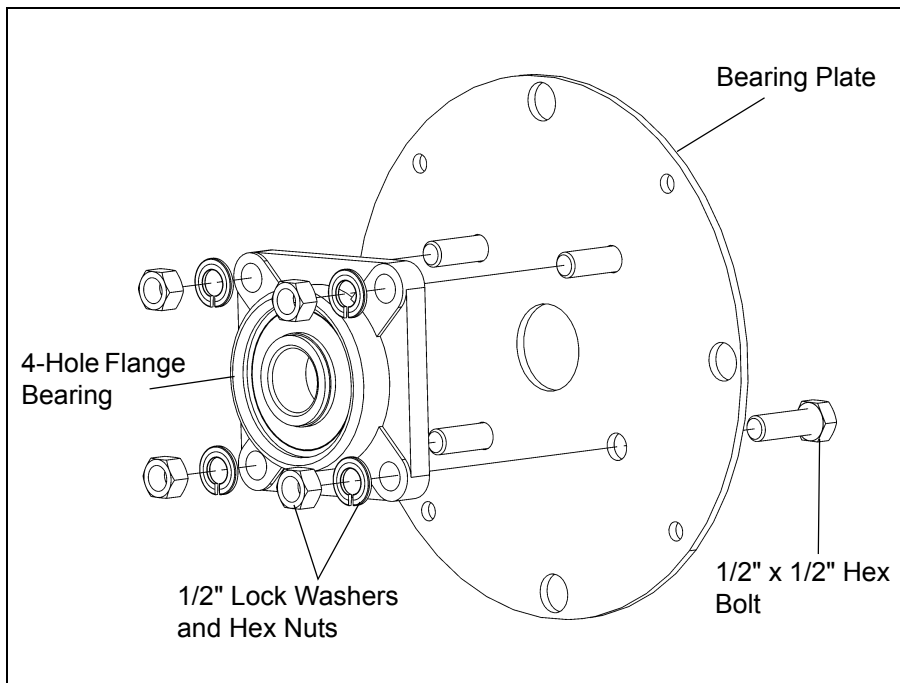


Figure 4J

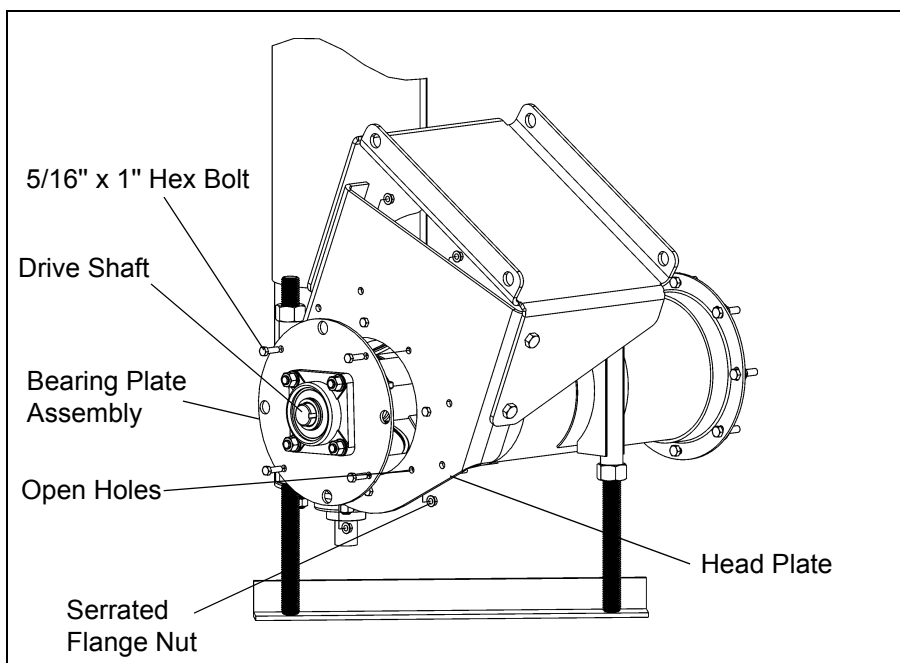


4. Assemble the Bearing to the Bearing Plate.
  - A. Using the previously removed 1-1/4" Four (4) Hole Flange Bearing, bolt it to the Bearing Plate using four (4) 1/2" x 1-1/2" Hex bolts, lock washers and Hex nuts.



**Figure 4K**

5. Assemble the Bearing Plate Assembly to the Head Plate.
  - A. Slide the Bearing Plate over the Drive Shaft and lineup the Bearing Plate Assembly in front of the Head Plate.



**Figure 4L**

## Installation

- B. Bolt the Bearing Plate Assembly to the Head Plate using four (4) 5/16" x 1" Hex bolts and Serrated Flange nuts.
- C. Slide the Bearing Lock Collar over the Drive Shaft up to the Bearing. Using a Hammer and Punch, drive it onto the Bearing in the clockwise direction, the same direction of the Auger Flight rotation.

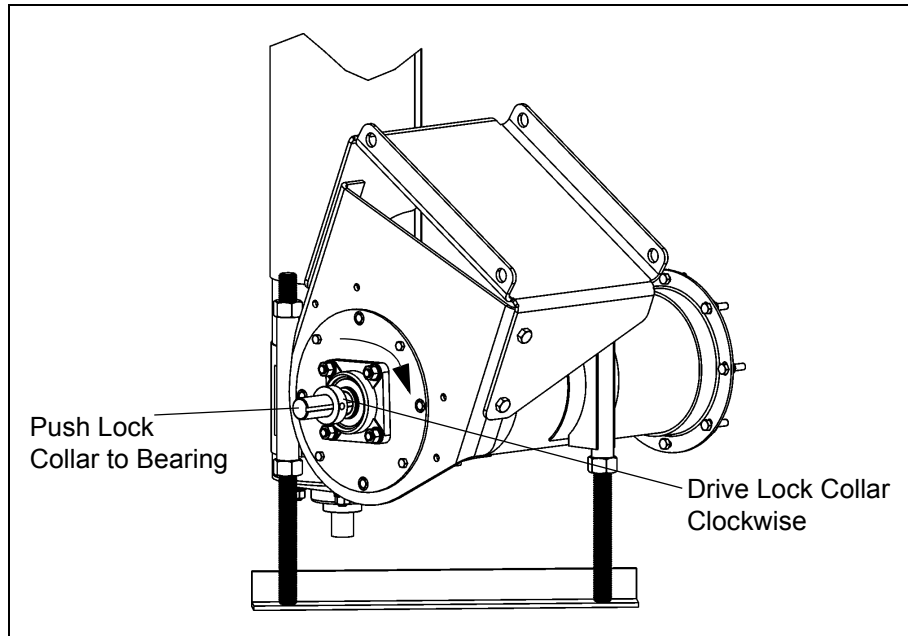


Figure 4M

- D. Tighten the Set Screw on the Lock Collar to the Drive Shaft.
6. Assemble Belt Guard Brackets to the Head Plate.
- A. Place the Left and Right Hand Belt Guard Brackets up to the Head Plate. The Left Hand Bracket is longer than the Right Hand Bracket.

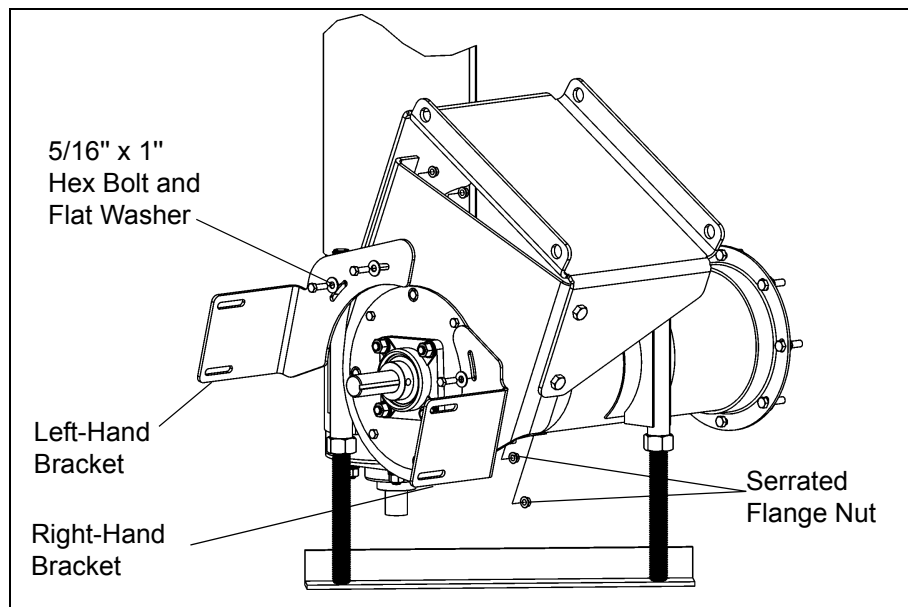


Figure 4N

- B. Loosely bolt the Brackets to the Head Plate using four (4) 5/16" x 1" Hex bolts, flat washers, and Serrated Flange nuts.
7. Installing the Motor Mount Adjuster.
- A. Place the Motor Mount Adjuster between the Bottom pivot holes on the Motor Mount Plate.
  - B. Insert the Pivot Rod through the Front Bottom pivot hole, the Motor Mount Adjuster, and the Back Bottom pivot hole. Secure the Pivot Rod in place with two (2) 3/16" x 2" Cotter pins. ([See Figure 40](#))

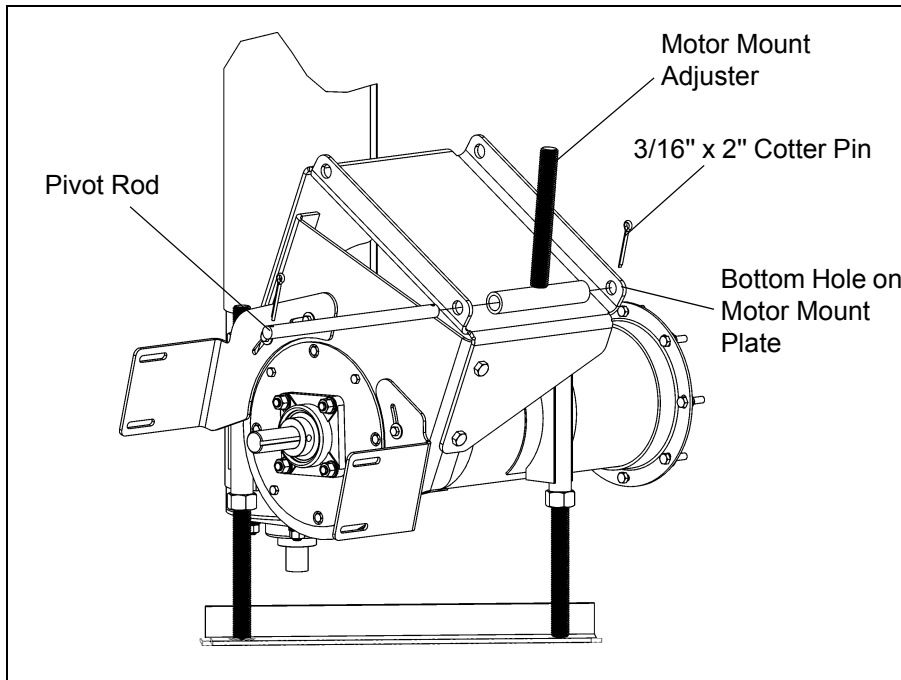


Figure 40

## Installation

- C. With the Cotter pins in the Pivot Rod, bend one tab of the Cotter pin back so that it touches the Pivot Rod, and bend the other tab of the Cotter pin away from the first tab. (See Figure 4P)

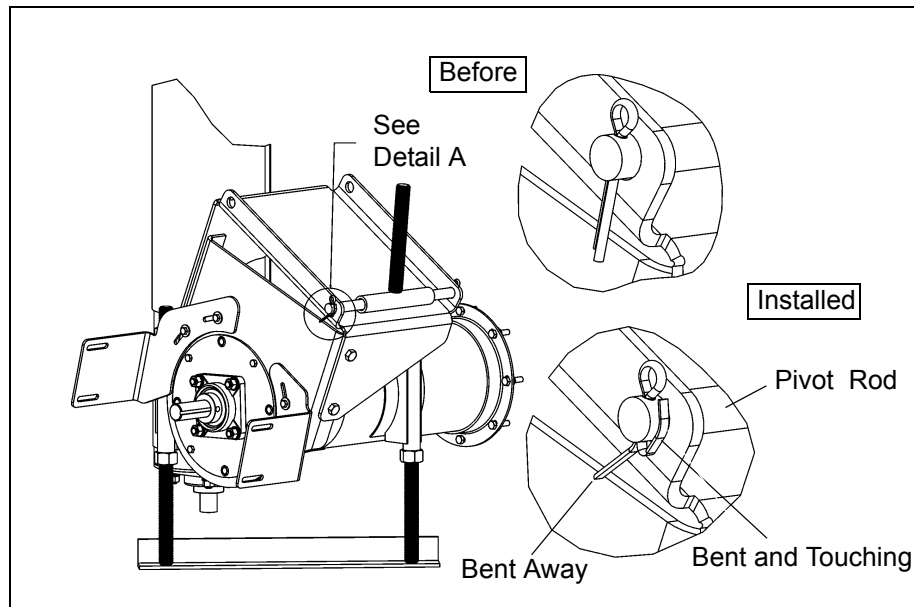


Figure 4P

### 8. Installing the Motor Plate.

- A. Thread one (1) of the Motor Mount Adjustment Nuts and one (1) the Motor Mount Adjustment Washers approximately  $\frac{3}{4}$  of the way down the Motor Mount Adjuster's threaded rod.
- B. Once the nut and washer are in place, slip the Motor Plate over the adjuster and align its pivot holes with the Top pivot holes on the Motor Mount Plate. (See Figure 4Q)

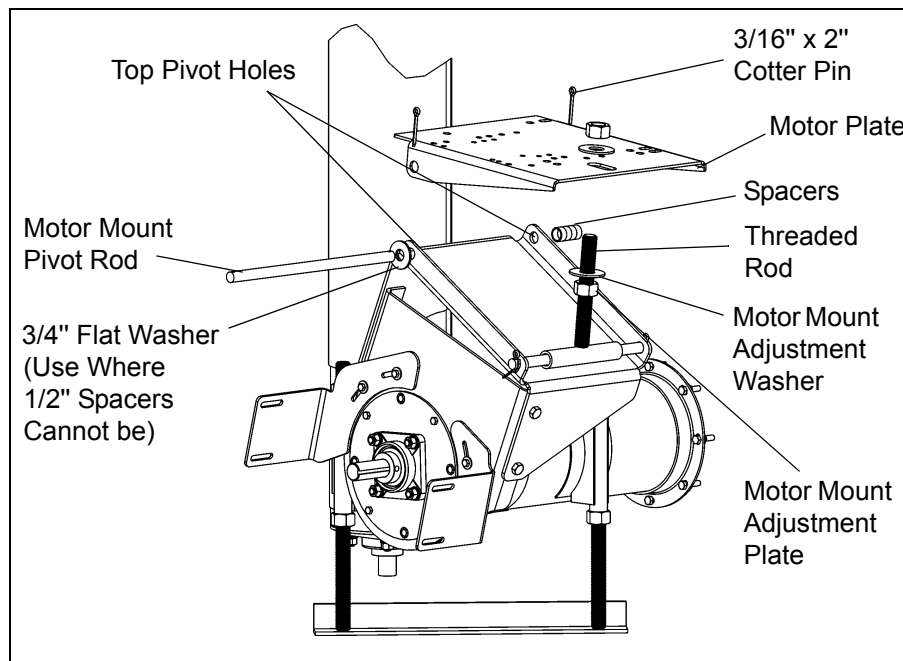
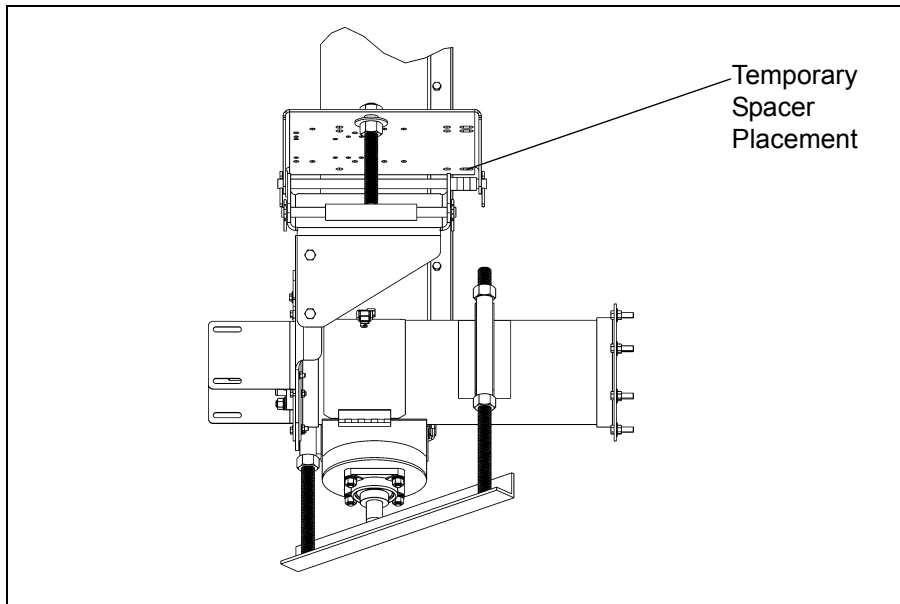


Figure 4Q

- C. Slide the Motor Mount Pivot Rod through the pivot holes on the Motor Plate and Motor Mount Plate. Insert the 3/4" Flat Washer between the Motor Plate and the Motor Mount Plate for the Front pivot hole.
- D. When the Pivot Rod begins to extend through the Back pivot hole on the Motor Mount Plate, install the spacers BETWEEN it and the inner face of the Motor Plate.  
(See Figure 4R)

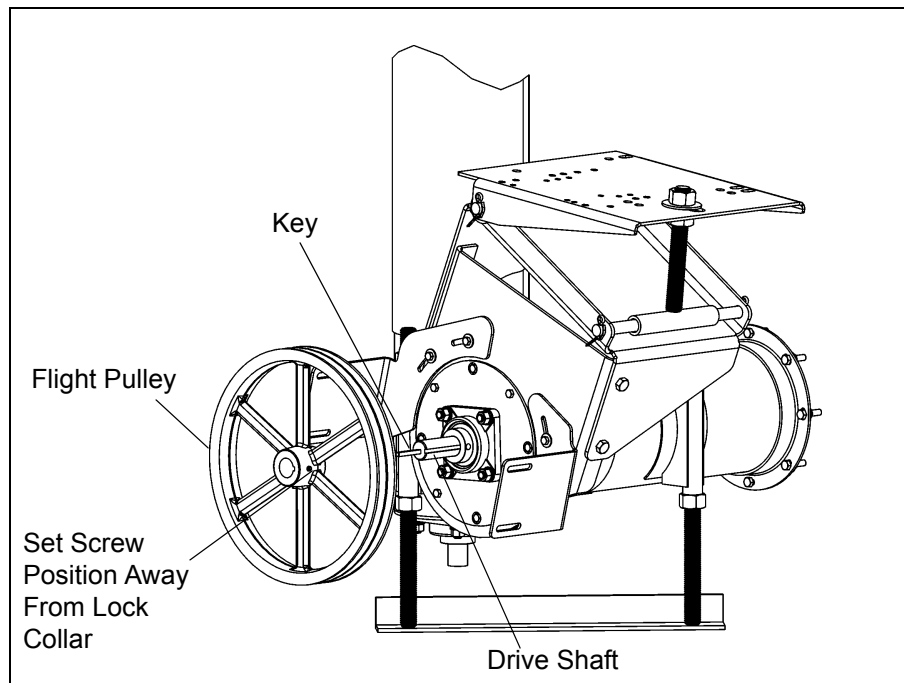


**Figure 4R**

- E. Secure the Motor Mount Pivot Rod in place with two (2) 3/16" x 2" Cotter pins. With the Cotter pins in the Pivot Rod, bend one tab of the Cotter pin back so that it touches the Pivot Rod, and bend the other tab of the Cotter pin away from the first tab.
  - F. Loosely install the Upper Motor Mount Adjustment Washer and Nut onto the threaded rod, over the Motor Mount Plate.
9. Installing the Pulley.
- A. Place and position the key into the keyway located on the Drive Shaft.
  - B. If applicable, assemble the supplied Sheave Bushing to the Flight Pulley. Place the Flight Pulley onto the Drive Shaft with the setscrew side of the Flight Pulley facing away from the Bearing Plate. Position the Flight Pulley so that it is as close to the lock collar as possible, but not touching it.

## Installation

- C. Once the Pulley is appropriately positioned, tighten the setscrew with a Hex head wrench to secure it to the Drive Shaft. ([See Figure 4S](#))



**Figure 4S**

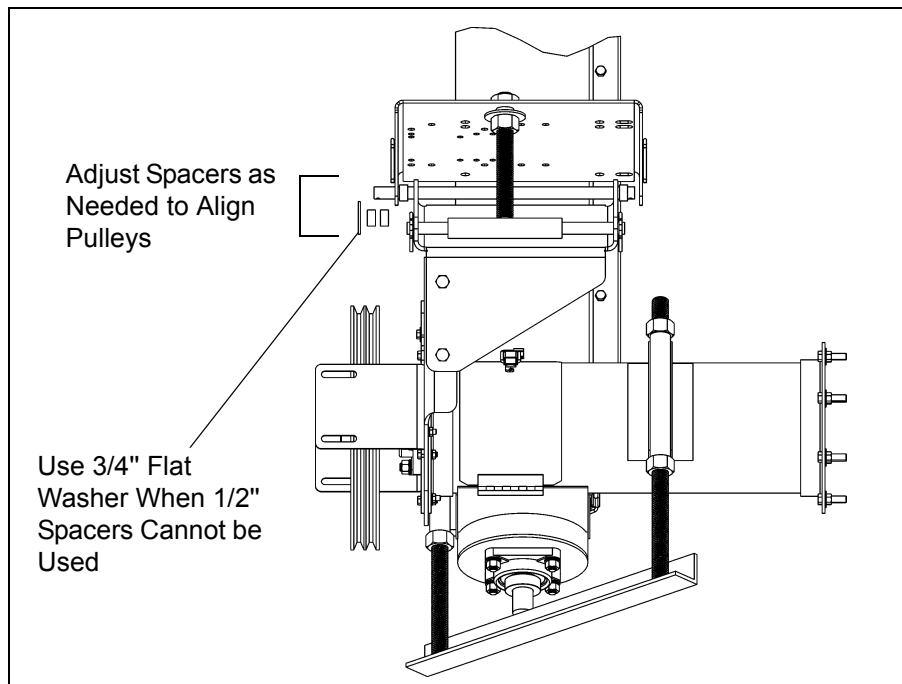
### 10. Installing the Motor (NOT PROVIDED)

- A. Attach the Motor to the Motor Mount Plate using appropriate bolts, lock washers, and Hex nuts. ([See Table](#) Below.)

#### Motor Bolt Selection

Motor Frame	Hex Bolt Quantity & Size
56 143T 145T	(4) 5/16"-18 x 1-1/4"
182T 184T 213T 215T	(4) 3/8"-16 x 1-1/4"
254T 256T	(4) 1/2"-13 x 1-3/4"

- B. Install the Drive 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. Use the 3/4" flat Washer where the 1/2" Spacers cannot be used. (*See Figure 4T*)



**Figure 4T**

### 11. 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 and putting tension on the belts.
- C. Once the desired tension is reached, tighten the Upper Motor Mount Adjustment Nut down onto the Motor Plate locking it into place.

### 12. Installing the Belt Guard.

- A. With the belts properly tensioned, remove the bottom Belt Guard Cover.
- B. Slip the Belt Guard down over the Motor and Drive Sheaves, enclosing the Drive belts.

## Installation

- C. Bolt the Belt Guard loosely to the Belt Guard Brackets with four (4) 3/8" x 3/4" Flange bolts.

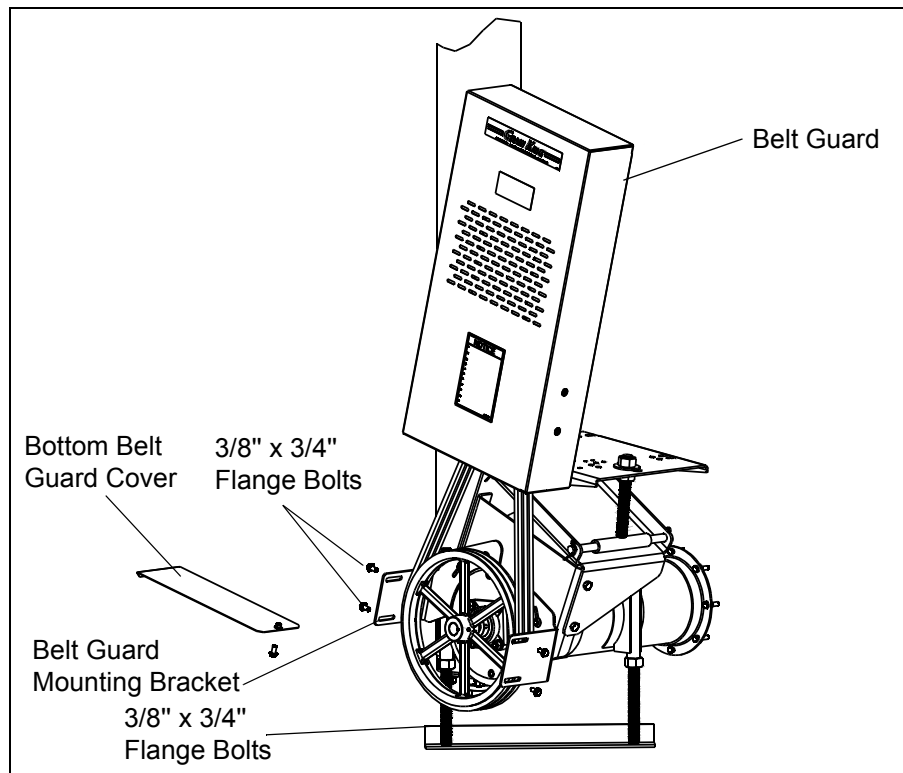


Figure 4U

- D. Center the Belt Guard slot with the Motor Shaft and the Auger Drive Shaft. Make sure the Belt Guard DOES NOT contact the pulleys, belts, or bearing, and tighten the Belt Guard to the Belt Guard Mounting Bracket(s).
- E. Once the Belt Guard is secured, slide the Bottom Belt Guard Cover back into place and secure it with the 3/8" x 3/4" Flange bolt previously removed.

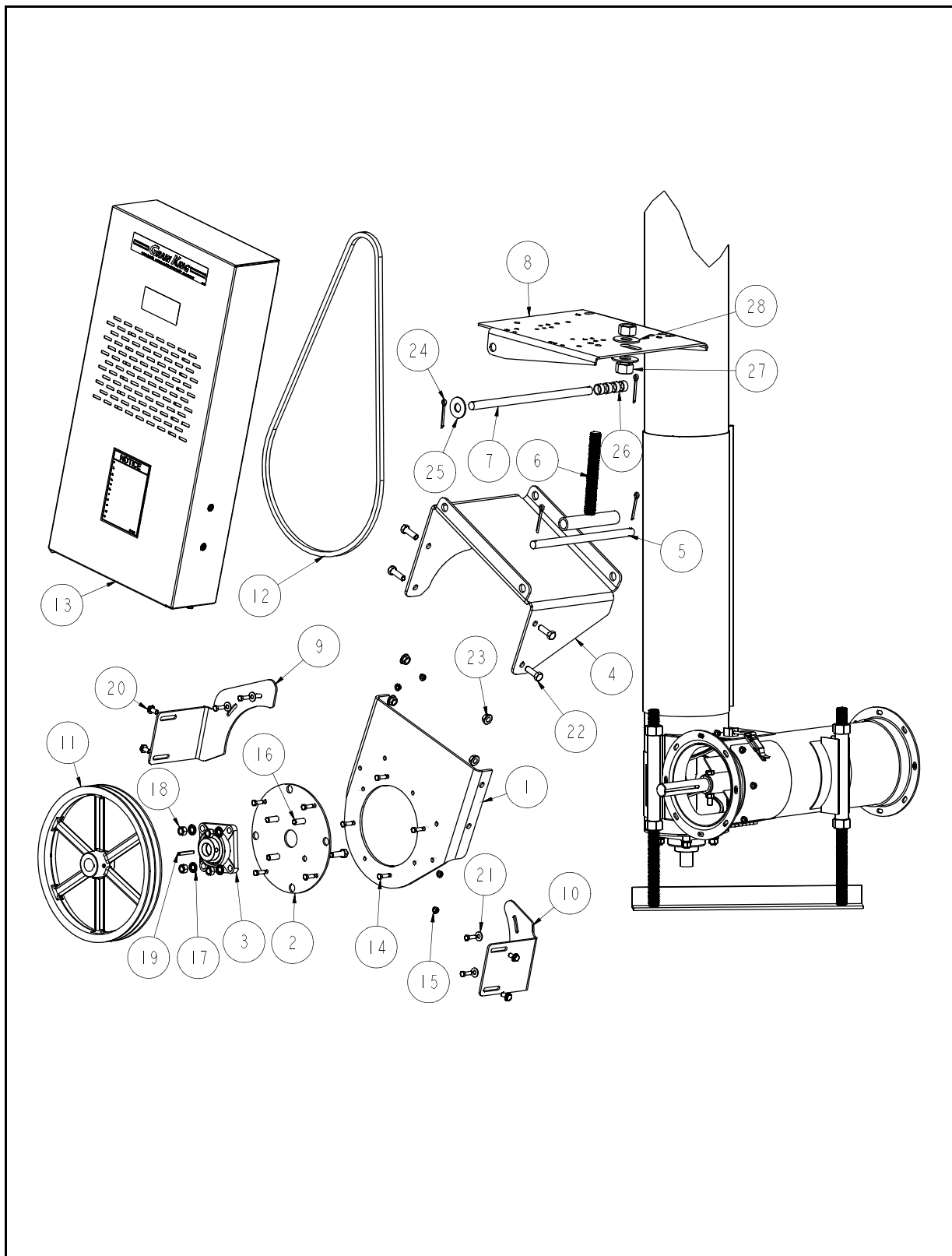


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# NOTES

## 5. PARTS LIST

### 1. Replacement Drive Kit Components



## Double-Drive Vertical Retro Belt Guard Kit

Ref #	Part #	Description
1	GK7769	Head Plate
2	GK7768	Bearing Plate
3	GK1017	1-1/4" 4-Hole Flange Bearing w/ Lock Collar
4	GK7771	Motor Mount Plate
5	GK7012	Motor Mount Adjustment Pivot Rod
6	GK6942	Motor Mount Adjustment Weldment
7	GK7013	Motor Mount Pivot Rod
8	GK6986	Motor Plate
9	GK7770	Left-hand Belt Guard Bracket
10	GK7767	Right-hand Belt Guard Bracket
11	GK1869	15" x 1-1/4" Bore 2B
	GK2234	15" x 1-1/4" Bore 3B
12	MHC00487	Belt-V BX71
13	GK7773	Double-Drive Vertical 8" Retro Belt Guard
14	S-1196	5/16"-18 x 1" HHCS Zinc Grade 5
15	S-3611	5/16"-18 Serrated Flange Nut Zinc Grade 2
16	S-7528	1/2"-13 x 1-1/2" HHCS Zinc Grade 2
17	S-236	1/2" Lock Washer Zinc
18	S-7510	1/2"-13 Hex Nut Zinc Grade 2
19	S-4513	1/4" x 1/4" x 2" Key
20	S-9067	3/8"-16 x 3/4" Flange Bolt Zinc Grade 5
21	S-845	5/16" Flat Washer Zinc Grade 2
22	S-8760	1/2"-13 x 1-1/2" HHCS Zinc Grade 5
23	S-8506	1/2"-13 Serrated Flange Nut Zinc
24	S-6994	3/16" x 2" Cotter Pin
25	S-866	3/4" Flat Washer Zinc Grade 2
26	GK7014	Pivot Spacer Tube
27	S-240	1"-8 Hex Nut Zinc Grade 5
28	S-7835	1" Flat Washer Zinc

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
<b>1) Auger vibration</b>	1) Drive belt may be overtightened, putting head stub and flight in a bind. Damage can occur to the auger flighting, thus caused noise. Damage usually caused from foreign material having been run through the auger.	1) It may be necessary to remove the flighting for inspection 2) Adjust the drive belt to the proper tension
<b>2) Low Capacity</b>	1) The auger may not be getting enough grain.	1) 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.
	2) The auger is moving too slowly.	2) Check the auger speed. Speeds slower than the recommended speed will result in low capacity.
<b>3) Auger plugs</b>	1) The auger may be getting too much grain, causing "jamming" inside the housing.	1) Decrease the amount of grain the auger is gathering.
	2) The motor may be too small or wired improperly.	2) If the motor is a newer light-weight aluminum type, the next larger size should be considered.
	3) The grain may be wet.	3) If wet grain or other hard-to-move material is being augered, use a larger size motor than recommended for normal use.
	4) The auger may be jammed with foreign material.	4) Be sure there is no foreign material in the auger such as sacks, tarp corners, etc.
	5) The discharge end may be plugged.	5) Make sure the discharge end of the auger is not plugged. A plug of the discharge end will cause an auger plug.

## 7. WARRANTY

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

EXCEPT FOR THE LIMITED WARRANTY EXPRESSED ABOVE, GSI MAKES NO FURTHER WARRANTY OF ANY KIND, EXPRESS 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 GSI OR (II) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF GSI REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCTS.

GSI SHALL NOT 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 IS AS SET FORTH IN THE LIMITED WARRANTY EXPRESSED ABOVE, WHICH SHALL NOT EXCEED THE AMOUNT PAID FOR THE PRODUCT PURCHASED. THIS WARRANTY IS NOT TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER. GSI SHALL HAVE NO OBLIGATION OR RESPONSIBILITY FOR ANY REPRESENTATIONS OR WARRANTIES MADE BY OR ON BEHALF OF ANY DEALER, AGENT OR DISTRIBUTOR OF GSI.

GSI ASSUMES NO RESPONSIBILITY FOR CLAIMS RESULTING FROM ERECTION DEFECTS OR UNAUTHORIZED MODIFICATIONS TO PRODUCTS WHICH IT MANUFACTURED. MODIFICATIONS TO PRODUCTS NOT SPECIFICALLY DELINEATED IN THE MANUAL ACCOMPANYING THE EQUIPMENT AT INITIAL SALE WILL NULLIFY THE PRODUCT WARRANTY THAT MIGHT HAVE BEEN OTHERWISE AVAILABLE.

THE FOREGOING WARRANTY SHALL NOT EXTEND TO PRODUCTS OR PARTS WHICH HAVE BEEN DAMAGED BY NEGLIGENT USE, MISUSE, ALTERATION OR ACCIDENT. THIS WARRANTY EXTENDS SOLELY TO ONLY PRODUCTS MANUFACTURED BY GSI. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. GSI RESERVES THE RIGHT TO MAKE DESIGN OR SPECIFICATION CHANGES AT ANY TIME.

PRIOR TO INSTALLATION, PURCHASER HAS THE RESPONSIBILITY TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES WHICH MAY APPLY TO THE LOCATION AND INSTALLATION OF PRODUCTS MANUFACTURED OR SOLD BY GSI.

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(revised December 2005)

**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.**

G S I G R O U P



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