

# **CE Compliant 6", 8", 10" and 12" Horizontal Unload Auger Drive Kits**

Owner's Manual - Original Instructions

PNEG-1429CE

Version: 2.0

Date: 12-17-15



PNEG-1429CE

**All information, illustrations, photos, and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.**



# CE Declaration of Incorporation EC MACHINERY DIRECTIVE 2006/42/EC

1004 East Illinois Street, Assumption, IL, 62510, USA

+1 217 226 4429

The GSI Group declares that the machine, parts or equipment

## Horizontal Bin Unloader Power Heads

### Models:

Model	Type	Maximum Motor	Auger Maximum
G616101A	6"	1.5 kW	510 RPM
G616201A	6"	3.75 kW	510 RPM
G824100A	8"	1.5 kW	438 RPM
G824200A	8"	3.75 kW	438 RPM
G824300A	8"	5.63 kW	438 RPM
GC82420A	8"	3.75 kW	408 RPM
GC82430A	8"	7.5 kW	408 RPM
G103020A	10"	3.75 kW	350 RPM
G103030A	10"	14.25 kW	350 RPM
G103030B	10"	11.25 kW	438 RPM
G103040A	10"	15 kW	438 RPM
GC12302A	12"	5.63 kW	380 RPM
GC12303A	12"	7.5 kW	380 RPM
GC12304A	12"	15 kW	380 RPM

Inclusive of unload accessories.

### **With the following required elements:**

- 6" Outlet spouts GK7173, GK7181 or GK7177
- 8" Outlet spouts GK7174, GK7182 or GK7178
- 10" Outlet spouts GK7175, GK7183 or GK7179
- 12" Outlet spouts GK7176, GK7184 or GK7180
- Each of the above supplied and fitted with minimum 850 mm long rigid steel grain tube.

### **Meet the following clauses of the Essential Requirements of the Machinery Directive 2006/42/EC.**

- 1.1.2 and sub-clauses principles of safety integration
- 1.3.1 Risk of loss of stability
- 1.3.2 Risk of break-up during operation
- 1.3.7 Risk related to moving parts
- 1.3.8 Choice of protection against risks arising from moving parts
  - 1.3.8.1 Moving transmission parts
  - 1.3.8.2 Moving parts involved in the process



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- 1.3.9 Risks of uncontrolled movements
- 1.4 Required characteristics of guards and protective devices
  - 1.4.1 General requirements
  - 1.4.2 Special requirements for guards
    - 1.4.2.1 Fixed guards
- 1.5.4 Errors of fitting
- 1.5.5 Extreme temperatures
- 1.5.6 Fire
- 1.5.7 Explosion
- 1.5.8 Noise
- 1.5.9 Vibrations
- 1.5.13 Emissions of hazardous materials and substances
- 1.6 Maintenance
  - 1.6.1 Machinery maintenance
  - 1.6.4 Operator intervention
- 1.7 Information
  - 1.7.1 Information and warnings on the machinery
    - 1.7.1.1 Information and information devices
  - 1.7.2 Warning of residual risks
  - 1.7.4 Instructions
    - 1.7.4.1 General principles for the drafting of instructions
    - 1.7.4.2 Contents of the instructions but not inclusive of sub-clause (u)
    - 1.7.4.3 Sales literature

This declaration applies only to the mechanical elements of the above machines and does not imply conformity by any other items of equipment fitted to or connected with the above machines.

The equipment above must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of all relevant Directives, nor until these components have been assembled in the manner recommended in the attached manufacturers instructions.

Signed :

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### Safety Guidelines

Safety guidelines are general-to-specific safety rules that must be followed at all times. This manual is written to help you understand safe operating procedures and problems that can be encountered by the operator and other personnel when using this equipment. Save these safety guidelines for future reference.

As owner or operator, you are responsible for understanding the requirements, hazards, and precautions that exist and to inform others as required. Unqualified persons must stay out of the work area at all times.

Alterations must not be made to the equipment. Alterations can produce dangerous situations resulting in **SERIOUS INJURY or DEATH**.

This equipment must be installed in accordance with the current installation codes and applicable regulations, which must be carefully followed in all cases. Authorities having jurisdiction must be consulted before installations are made.

When necessary, you must consider the installation location relative to electrical, fuel and water utilities.

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

**ST-0001-3**

## Cautionary Symbols Definitions

Cautionary symbols appear in this manual and on product decals. The symbols alert the user of potential safety hazards, prohibited activities and mandatory actions. To help you recognize this information, we use the symbols that are defined below.



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



This symbol indicates a potentially hazardous situation which, if not avoided, **can result in serious injury or death.**



This symbol indicates a potentially hazardous situation which, if not avoided, **can result in minor or moderate injury.**



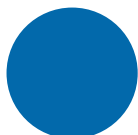
This symbol is used to address practices not related to personal injury.



This symbol indicates a general hazard.



This symbol indicates a prohibited activity.



This symbol indicates a mandatory action.

ST-0005-2

### Safety Cautions

#### Use Personal Protective Equipment

- Use appropriate personal protective equipment:

**Eye Protection**



**Respiratory Protection**



**Foot Protection**



**Hearing Protection**



**Head Protection**



**Fall Protection**



**Hand Protection**



- Wear clothing appropriate to the job.
- Remove all jewelry.
- Tie long hair up and back.

ST-0004-1

#### Follow Safety Instructions

- Carefully read all safety messages in this manual and safety signs on your machine. 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.
- If you do not understand any part of this manual or need assistance, contact your dealer.



ST-0002-1

### Maintain Equipment and Work Area

- Understand service procedures before doing work. Keep area clean and dry.
- Never service equipment while it is operating. Keep hands, feet, and clothing away from moving parts
- Keep your equipment in proper working condition. Replace worn or broken parts immediately.



ST-0003-1

### Operate Motor Properly

- All electrical connections must be made in accordance with the National Electric Code (US) or Canadian Electrical Code (CEC). Be sure equipment and bins are properly grounded.
- Lock-out power before resetting motor overloads.
- Do not repetitively stop and start the drive in order to free a plugged condition. Jogging the drive in this manner can damage the equipment and drive components.



ST-0009-2

### Rotating Auger Hazard

- Keep clear of rotating augers and moving parts.
- Do not remove or modify guards or covers.
- Lock-out power source before making adjustments, cleaning, or maintaining equipment.
- Failure to follow these precautions will result in serious injury or death.



ST-0037-1

### Stay Clear of Hoisted Equipment

- Always use proper lifting or hoisting equipment when assembling or disassembling equipment.
- Do not walk or stand under hoisted equipment.
- Always use sturdy and stable supports when needed for installation. Not following these safety precautions creates the risk of falling equipment, which could crush personnel and cause serious injury or death.



ST-0047-1

## 1. Safety

### Stay Clear of Rotating Parts

- Do not enter the bin while the equipment is in operation.
- Entanglement in rotating augers will cause serious injury or death.
- Keep all shields and covers in place at all times.
- Lock-out power source before making adjustments, cleaning, or maintaining equipment.



ST-0008-1

### Use Unload Equipment Properly

- Do not operate this equipment alone. Make sure someone nearby is aware of the proper shut down sequence in the event of an emergency.
- Do not allow any person intoxicated or under the influence of drugs to operate this equipment. All operators must be adequately rested and prepared to perform all functions of operating the equipment.
- Do not start equipment until all persons are clear of the work area and safety guards are in place.
- Do not allow anyone inside a bin, truck, or wagon which is being unloaded by an auger. Flowing grain can trap and suffocate in seconds.
- Use ample overhead lighting after sunset to light the work area.
- Always use caution to not hit the auger when positioning the load.
- Do not leave equipment operating while unattended.
- Be aware of pinch points, which can trap or catch objects and cause injury.
- Be sure all equipment is locked in position before operating.
- Always lock out all power sources to the equipment when unloading is finished.



ST-0051-1

## Safety Sign-Off Sheet

Below is a sign-off sheet that can be used to verify that all personnel have read and understood the safety instructions. This sign-off sheet is provided for your convenience and personal record keeping.

[illegible]

## 1. Safety

### Correct Use

1. Use only with GSI bin unload augers and direct drive power sweep augers, up to 48' diameter (14.63 m).
2. It is for conveying whole agricultural seeds and grains. No other use is permitted.
3. Never use when any person is inside the bin.
4. The installer and operator shall ensure the final installation fulfils the Essential Requirements of the Machinery Directive 2006/42/EC and the requirements in this manual.
5. Never use the auger with any guards removed.
6. Never enter the grain bin unless the power supply to the auger and all other equipment in the bin is OFF, TAGGED and LOCKED. (See Figure 1A.)



Figure 1A

7. Never leave the auger running unattended.
8. Always TURN OFF and LOCK the power supply to the auger before leaving it unattended.
9. Operators shall be:
  - Over 18 years
  - Trained
  - Not under the influence of drugs, alcohol or medication which could impair judgement.
10. Never modify the auger.
11. Never work alone.
12. Never start equipment until all persons are clear of the grain bin.
13. Keep hands and feet away from all moving parts.
14. Never act impulsively around the equipment.
15. Never allow anyone inside a bin, truck or wagon which is being loaded or unloaded. Flowing grain can trap and suffocate in seconds.

## Moving the Drive Unit

The drive unit may be installed to be transferred between grain bins. When moving, observe the following precautions:

1. Power supply to the motor should be made via a suitable electrical plug and socket.
2. Fit a socket outlet at each bin.
3. Ensure and test correct protective earth at each socket and weather proofing (recommended IP67).
4. The drive unit shall be moved using suitable lift equipment.
5. The motor will make the unit top heavy. Lift from the motor lifting eye or around the motor. A second lift point should be adjacent to the bin flange.

## Electrical Safety

Equipment shall include:



1. Fuse protected main power supply.
  - a. The electrical supply should include earth leakage protection, eg Residual Current Device (RCD) or Residual Current Circuit Breaker (RCCB), to provide automatic disconnection in the event of a fault.



2. Lockable main safety disconnect.
  - a. Disconnects all electrical power.



3. Lockable motor service disconnect.
  - a. Adjacent to each motor (or group of motors).
  - b. Disconnects all power to the motors.



4. Emergency stops.
  - a. Stops all equipment immediately when pressed.
  - b. Must remain engaged until manually disengaged.
  - c. Equipment shall not immediately re-start when the emergency stop is re-set.
  - d. The number of emergency stops should be decided based on a risk assessment.
5. Door safety interlocks - where doors provide access to dangerous machinery.
  - a. Immediately stops and prevents re-start of all equipment when the door is open.
  - b. Equipment shall not immediately re-start when the door is closed.
  - c. Safety switches shall be SIL3 in accordance with IEC62061:2005.
  - d. Safety circuits should be Category 3 in accordance with EN 954-1:1997 or PLc in accordance with ISO 13849-1:2006. (See Figure 1B on Page 14.)

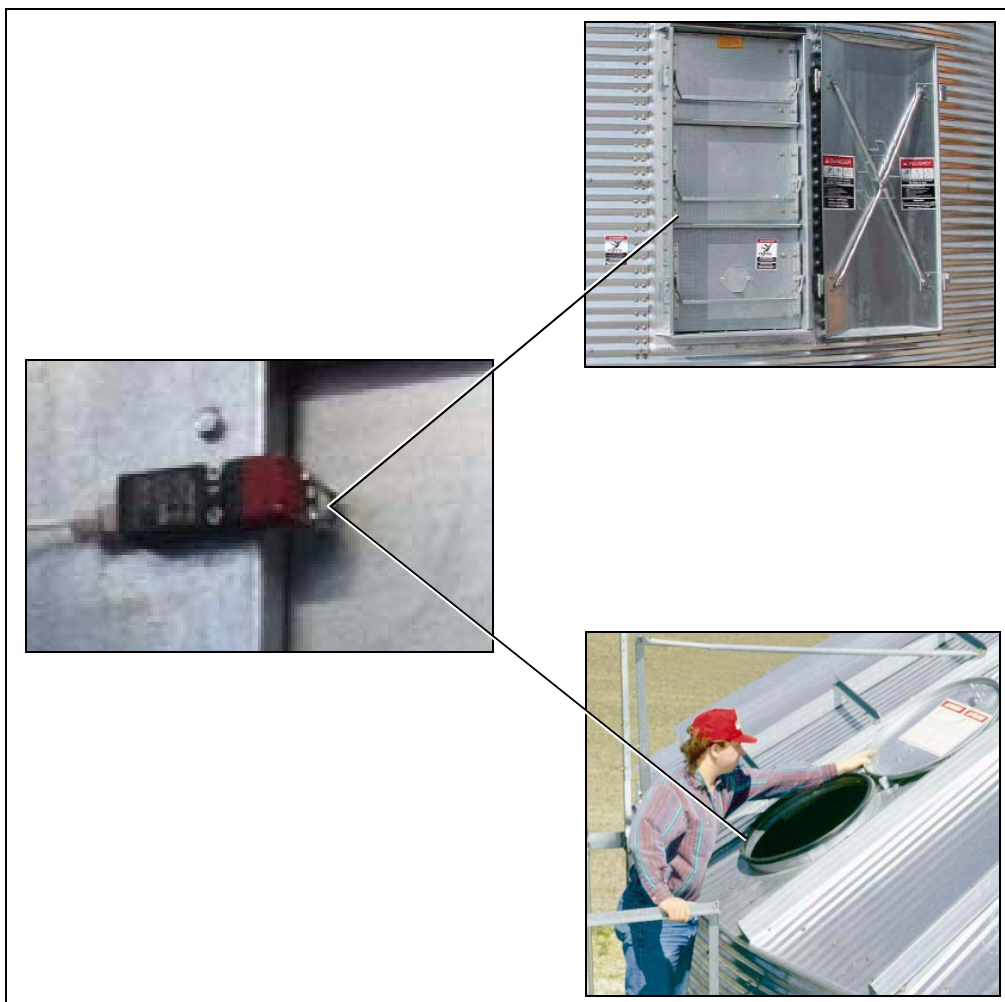


Figure 1B

6. The electrical supply must include a properly designed protective earth system (PE), with connection to all exposed conductive parts.



7. All motors shall be connected to protective earth at the terminal provided.

8. The control system shall include.

- a. Short circuit protection.



- b. Start/stop controls (labelled 1 and 0 respectively).



- c. Equipment shall not immediately re-start following re-establishment of power.

- d. Motor circuits shall include over current protection set according to the full load current, stated on the motor rating plate.

- e. Motor thermal protection may also be required.

9. All electrical design, installation and testing must be carried out by a qualified electrical engineer, in accordance with EU Directives and Standards, local laws and codes.

## Safety Guarding Requirements

Guards provided with the equipment must be fitted at all times when the equipment is in operation.

### Augers

1. End and intermediate intake guard. *(See Figure 1C.)*

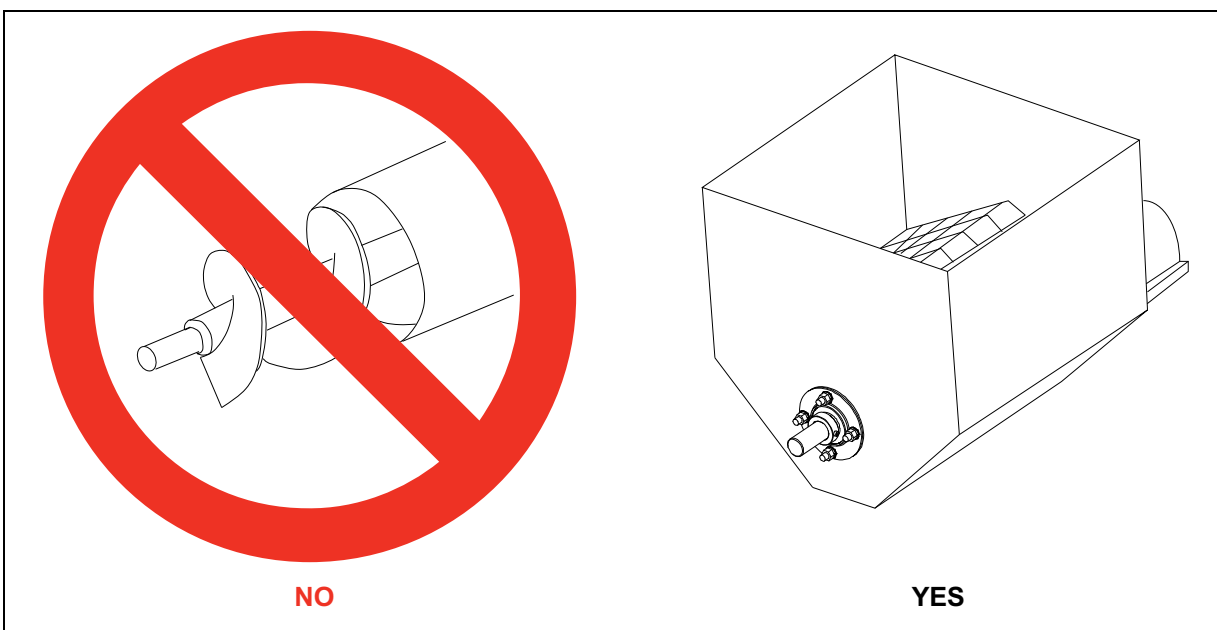


Figure 1C

2. End and intermediate outlet guarding. *(See Figure 1D.)*

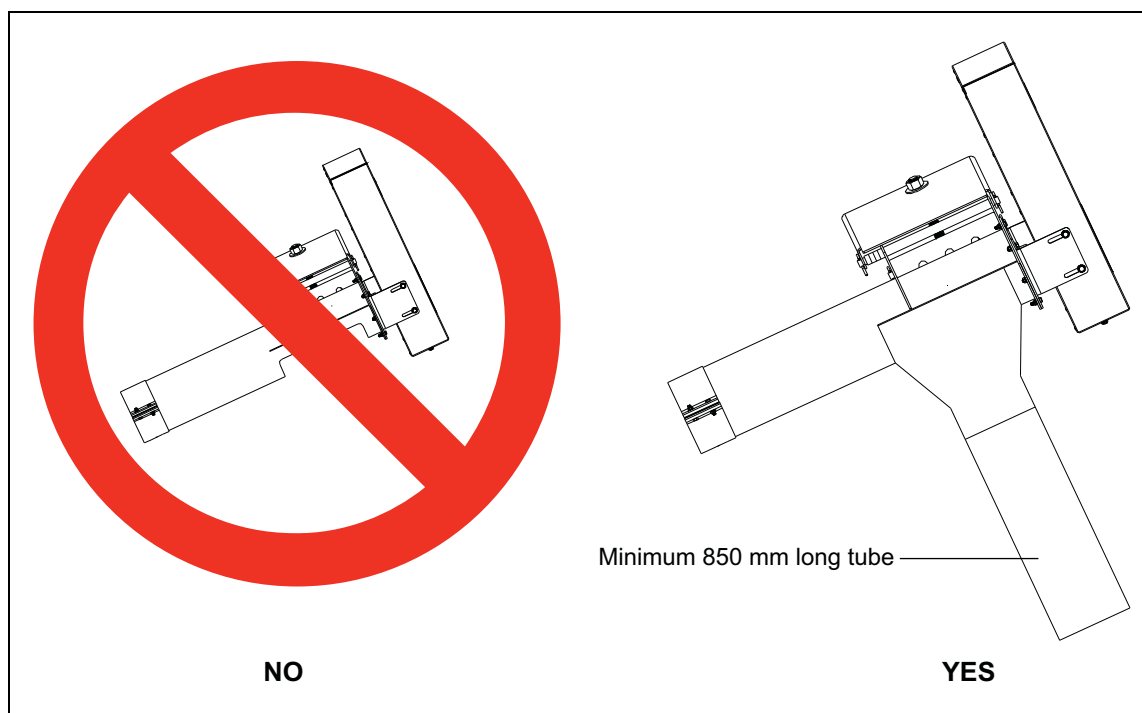


Figure 1D

## 1. Safety

3. A shorter tube may be used only where the tube is directly connected to other handling equipment.  
(See Figure 1E.)

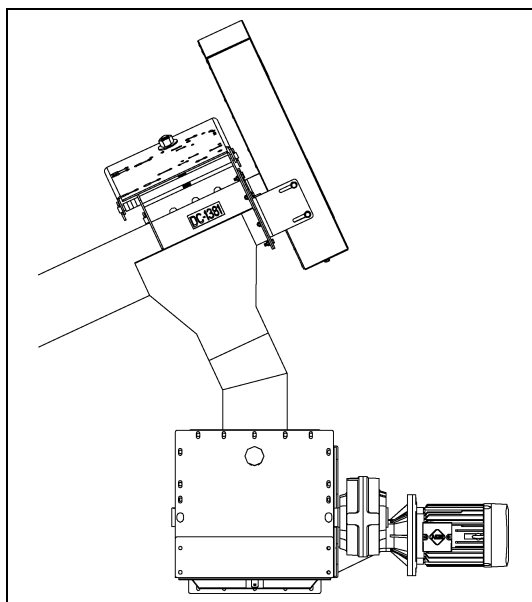


Figure 1E

## Drives and Power Transmission

1. Belt drive and pulley guard. (See Figure 1F.)

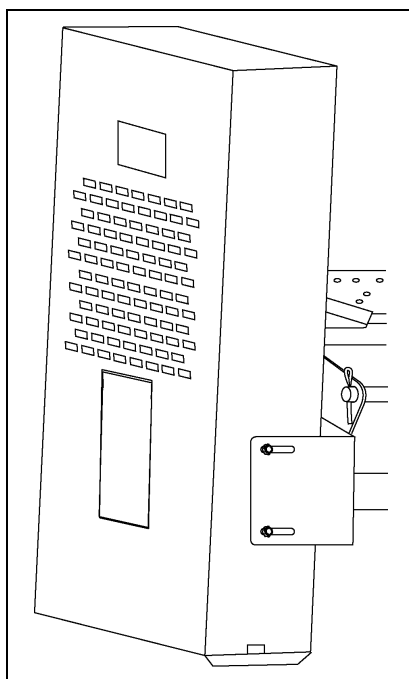


Figure 1F Auger Belt Drive

## Un-Guarded Moving Parts

Where parts are required to be exposed, eg sweep augers, stirring augers, they shall be located within enclosed areas (eg grain bin/grain dryer) and users prevented from gaining access during operation by use of electrical safety interlocks. See electrical safety section on [Page 13](#).

## Possible Hazards Inside Grain Bins

The inside of a grain bin, no matter what size, is a dangerous location. Grain bins should be kept **locked shut** at all times.



**NEVER** allow a child or untrained, inexperienced person to enter a grain bin.

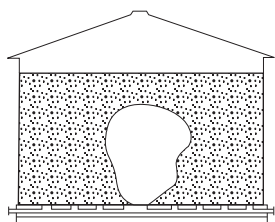
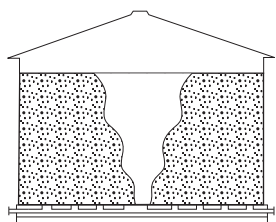
### Hazards present at any time may include:



Mass flow of grain when filling or emptying which could draw you in and cause suffocation/burial.



Bridged, crusted or capped grain which could collapse if you stand on it. It is recommended **NEVER** to walk on the surface of the stored material.



*If grain has stopped flowing, become bridged, capped or crusted, the **only safe way** to remedy this is from the outside of the bin.*



Exposed machinery such as fans, augers and conveyors with which you could become entangled.



*It is a recommended **additional** safety measure to fit grain bin doors and hatches with electrical interlock switches, to stop all equipment if the door or hatch is opened. However this does not override the need to lock out power before entering.*



Hazardous substances such as dust, mould spores, vapors and gases or low oxygen levels which could cause respiratory problems.



High temperature combustible material.



## 2. Safety Decals

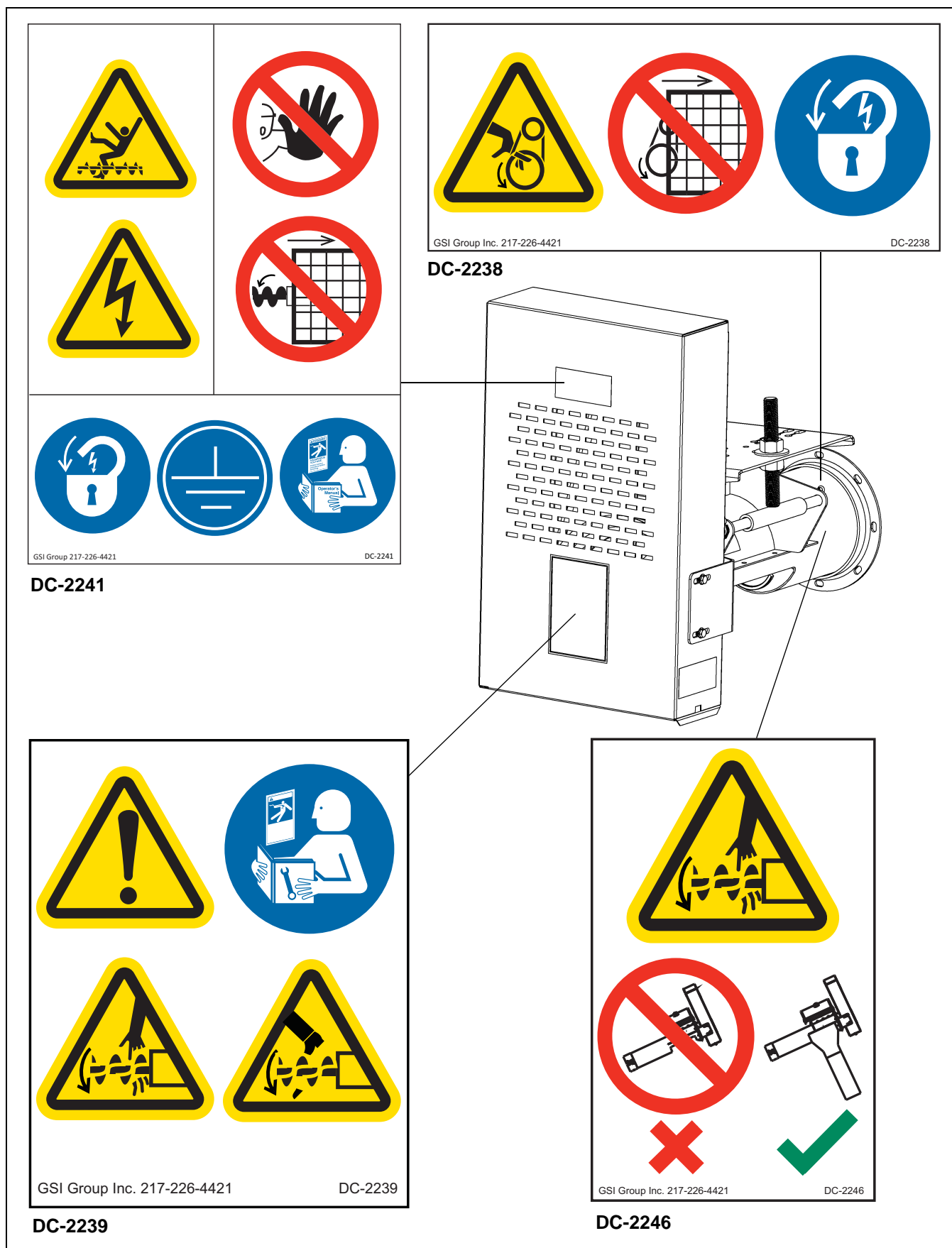


Figure 2A

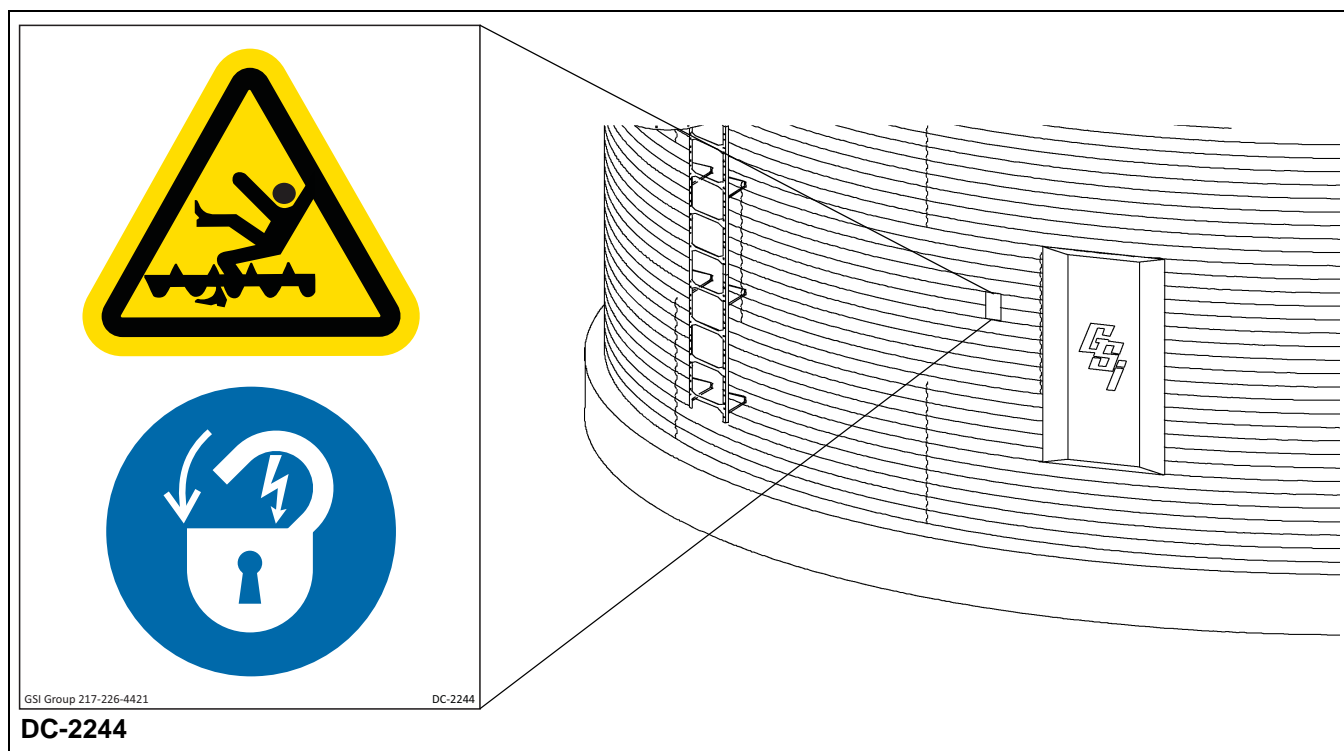


Figure 2B

1. Ensure all decals are fitted and legible.
2. International decals are available with the correct language pack (LPAK).
3. Please request LPAK-0020-\*\* if you did not receive it with your delivery.

## CE Mark and Rating Plate

Once the unload power head has been assembled with the power sweep auger, in accordance with the instructions given in this manual, the installer or supplier shall make the full Declaration of Conformity and apply the CE mark, in accordance with the EU Machinery Directive 2006/42/EC. The rating plate, supplied with the drive unit shall be fitted on the unload tube. ([See Figure 2C on Page 20.](#))

2. Safety Decals

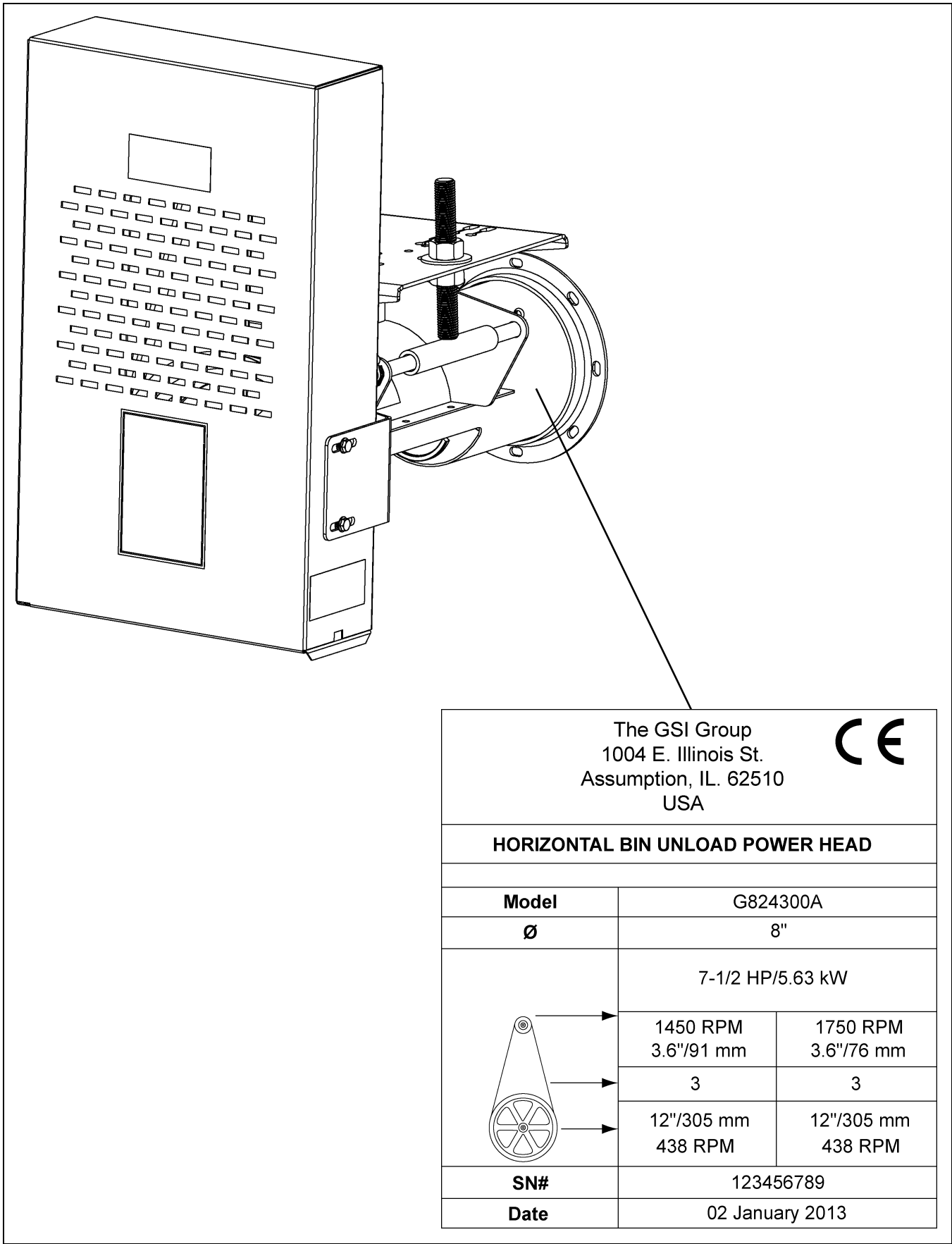
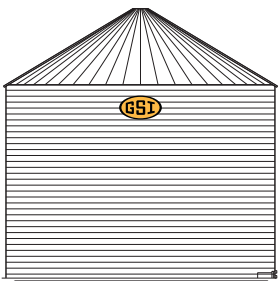
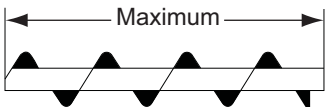
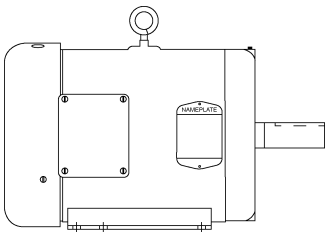


Figure 2C

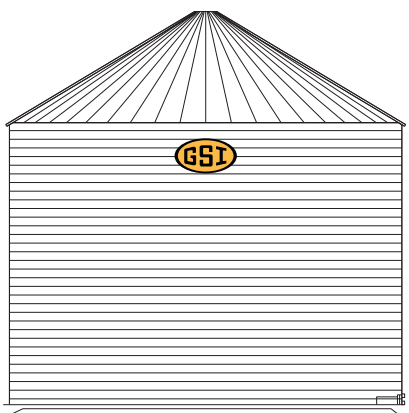
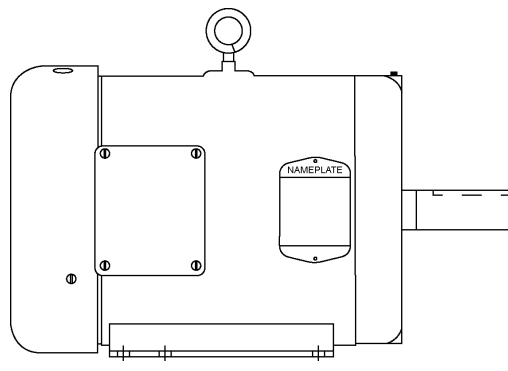
Model	Type	Maximum Motor	Auger Maximum	Motor Pulley (1450 RPM)	Motor Pulley (1700 RPM)	Auger Pulley	Belts
G616101A	6"	1.5 kW	510 RPM	107 mm	89 mm	305 mm	1
G616201A	6"	3.75 kW	510 RPM	107 mm	89 mm	305 mm	2
G824100A	8"	1.5 kW	438 RPM	91 mm	76 mm	305 mm	1
G824200A	8"	3.75 kW	438 RPM	91 mm	76 mm	305 mm	2
G824300A	8"	5.63 kW	438 RPM	91 mm	76 mm	305 mm	3
GC82420A	8"	3.75 kW	408 RPM	107 mm	89 mm	381 mm	2
GC82430A	8"	7.5 kW	408 RPM	107 mm	89 mm	381 mm	3
G103020A	10"	3.75 kW	350 RPM	91 mm	76 mm	381 mm	2
G103030A	10"	14.25 kW	350 RPM	91 mm	76 mm	381 mm	3
G103030B	10"	11.25 kW	438 RPM	114 mm	95 mm	381 mm	3
G103040A	10"	15 kW	438 RPM	114 mm	95 mm	381 mm	4
GC12302A	12"	5.63 kW	380 RPM	122 mm	102 mm	467 mm	2
GC12303A	12"	7.5 kW	380 RPM	122 mm	102 mm	467 mm	3
GC12304A	12"	15 kW	380 RPM	122 mm	102 mm	467 mm	4

### 3. Specifications

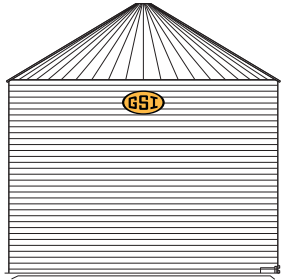
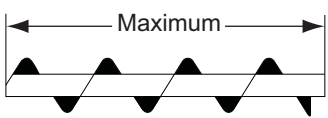
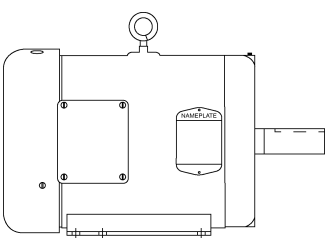
#### 6" with Standard Farm Unload

		
3.7 m - 4.9 m	2.97 m	0.56 kW
5.2 m - 5.8 m	3.58 m	0.75 kW
6.1 m - 6.7 m	3.89 m	
7.0 m - 7.6 m	4.34 m	
7.9 m - 8.5 m	4.80 m	1.1 kW
8.8 m - 9.4 m	5.26 m	1.5 kW
9.7 m - 10.3 m	5.86 m	
10.6 m - 10.9 m	6.17 m	

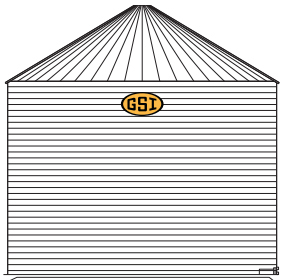
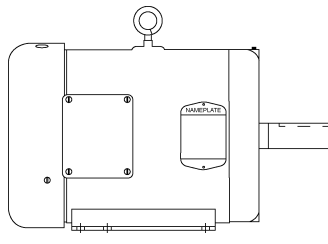
#### 6" with DGD Unload and Sweep

	
4.57 m	2.25 kW
5.49 m	
6.40 m	
7.32 m	
8.23 m	3.75 kW
9.15 m	
10.06 m	
10.98 m	

## 8" with Standard Farm Unload

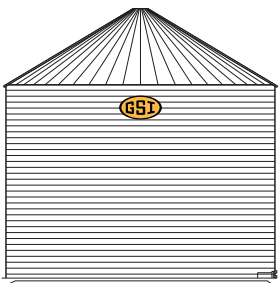
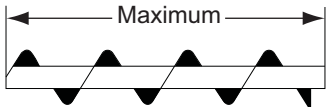
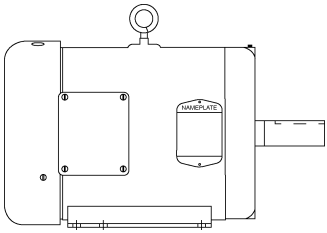
		
3.7 m - 4.9 m	3.00 m	1.1 kW
5.2 m - 5.8 m	3.60 m	1.5 kW
6.1 m - 6.7 m	3.91 m	
7.0 m - 7.6 m	4.37 m	2.25 kW
7.9 m - 8.5 m	4.83 m	
8.8 m - 9.4 m	5.28 m	3.75 kW
9.7 m - 10.3 m	5.89 m	
10.6 m - 10.9 m	6.20 m	
12.8 m	7.26 m	
14.6 m	8.18 m	

## 8" with DGD Unload and Sweep

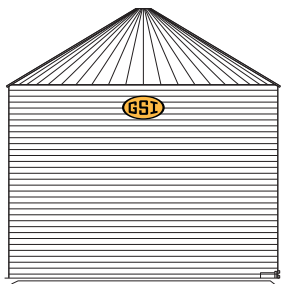
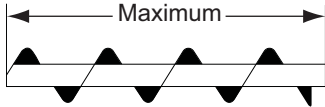
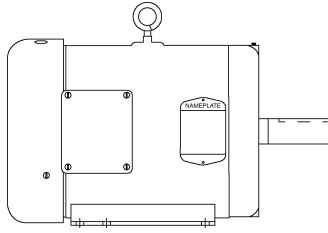
	
4.57 m	2.25 kW
5.49 m	
6.40 m	3.75 kW
7.32 m	
8.23 m	
9.15 m	
10.06 m	
10.98 m	5.62 kW
11.89 m	
12.80 m	
14.63 m	

### 3. Specifications

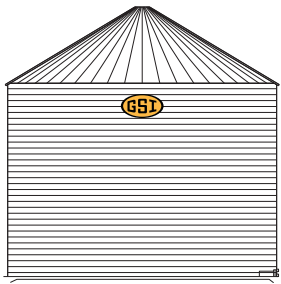
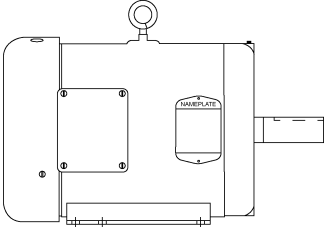
#### 8" with Commercial Bin Unload

		
7.32 m	4.42 m	2.25 kW
8.23 m	4.88 m	
9.15 m	5.47 m	
10.06 m - 10.36 m	5.95 m	3.75 kW
10.98 m	6.25 m	
11.3 m - 11.9 m	6.71 m	
12.2 m	7.01 m	
12.8 m	7.32 m	
14.6 m - 14.9 m	8.23 m	
16.5 m - 16.8 m	9.15 m	
18.3 m	10.06 m	
19.2 m	10.52 m	5.62 kW
20.7 m - 21 m	11.43 m	
21.9 m	11.89 m	
22.9 m	12.35 m	7.5 kW
23.8 m	12.96 m	
24.4 m	13.57 m	
25.0 m	13.87 m	
27.4 m	15.09 m	
28.0 m	15.40 m	

### 10" with Standard Farm Unload

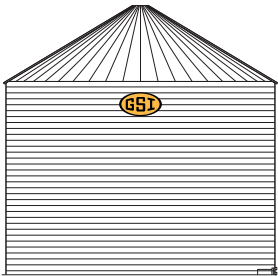
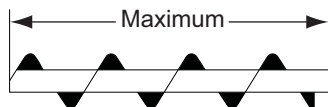
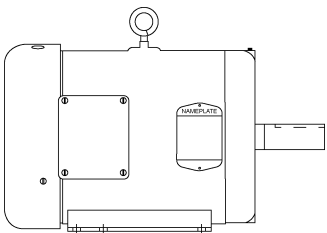
		
7.0 m - 7.6 m	4.42 m	3.75 kW
7.9 m - 8.5 m	4.88 m	
8.8 m - 9.4 m	5.34 m	
9.7 m - 10.3 m	5.95 m	
10.6 m - 11.2 m	6.25 m	5.62 kW
12.8 m	7.32 m	
14.6 m	8.23 m	

### 10" with DGD Farm Unload and Sweep

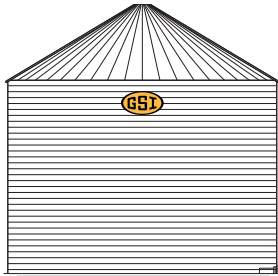
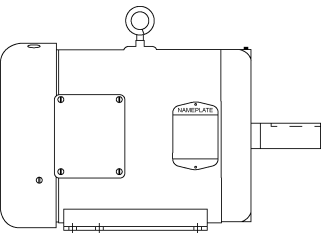
	
8.23 m	5.62 kW
9.15 m	
10.06 m	
10.98 m	
11.89 m	7.5 kW
12.80 m	
14.63 m	
8.23 m	

### 3. Specifications

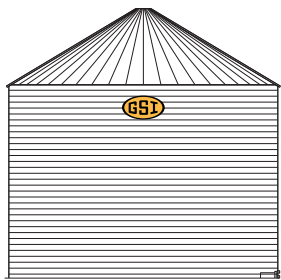
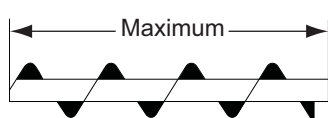
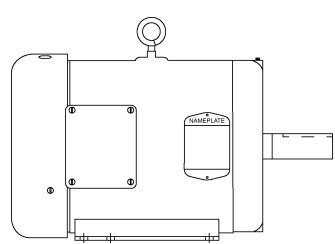
#### 10" Commercial with Commercial Unload

		
7.32 m	4.42 m	3.75 kW
8.23 m	4.88 m	
9.15 m	5.34 m	
10.06 m - 10.36 m	5.79 m	
10.97 m	6.25 m	
11.28 m - 11.88 m	6.71 m	5.62 kW
12.20 m	7.01 m	
12.80 m	7.32 m	
14.60 m - 14.94 m	8.23 m	
16.46 m - 16.76 m	9.15 m	
18.29 m	10.06 m	7.5 kW
19.21 m	10.52 m	
20.73 m - 21.03 m	11.43 m	
21.95 m	11.89 m	
22.87 m	12.35 m	
23.78 m	12.96 m	11.25 kW
24.39 m	13.57 m	
25.00 m	13.87 m	
27.44 m	15.09 m	
28.05 m	15.37 m	

#### 10" Commercial with 10" Commercial DGD Unload

	
10.98 m	11.25 kW
12.80 m	
14.63 m	
16.46 m	
18.29 m	
21.95 m	15 kW
22.87 m	
23.78 m	

### 12" Commercial with 12" Commercial Unload

		
7.32 m	4.42 m	5.62 kW
8.23 m	4.88 m	
9.15 m	5.34 m	
10.06 m - 10.36 m	5.79 m	
10.97 m	6.25 m	
11.28 m - 11.88 m	6.71 m	
12.20 m	7.01 m	7.5 kW
12.80 m	7.32 m	
14.60 m - 14.94 m	8.23 m	
16.46 m - 16.76 m	9.15 m	
18.29 m	10.06 m	11.25 kW
19.21 m	10.52 m	
20.73 m - 21.03 m	11.43 m	
21.95 m	11.89 m	
22.87 m	12.35 m	
23.78 m	12.96 m	
24.39 m	13.57 m	
25.00 m	13.87 m	15 kW
27.44 m	15.09 m	
28.05 m	15.37 m	
32.01 m	17.38 m	
34.45 m	18.50 m	
36.58 m	19.66 m	

#### 4. Assembly

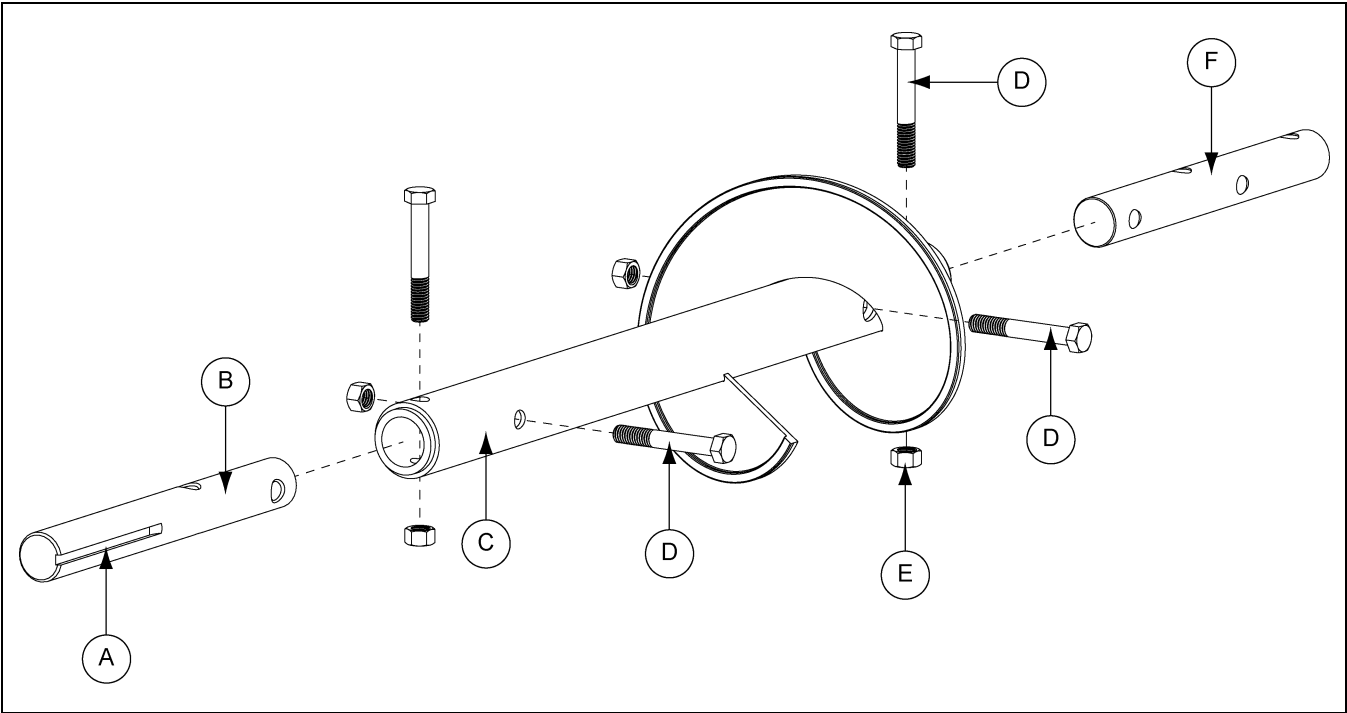
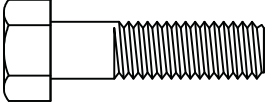
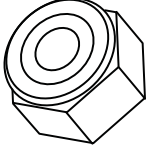


Figure 4A

Ref #	Description
A	Keyway
B	Drive Shaft
C	Discharge Flight
D	Bolt (See chart <a href="#">below</a> for sizes.)
E	Stover Nut (See chart <a href="#">below</a> for sizes.)
F	Connecting Shaft

Type					Qty
	Part #	Description	Part #	Description	
6"	S-7687	3/8"-16 x 2" (50 mm)	S-8251	3/8" Stover Nut	4
8"	S-8316	7/16"-14 x 3" (75 mm)	S-8317	7/16" Stover Nut	4
10"	S-8314	1/2"-13 x 3-1/2" (90 mm)	S-8315	1/2" Stover Nut	4
12"	S-7893	5/8"-11 x 4" (110 mm)	S-8606	5/8" Stover Nut	4

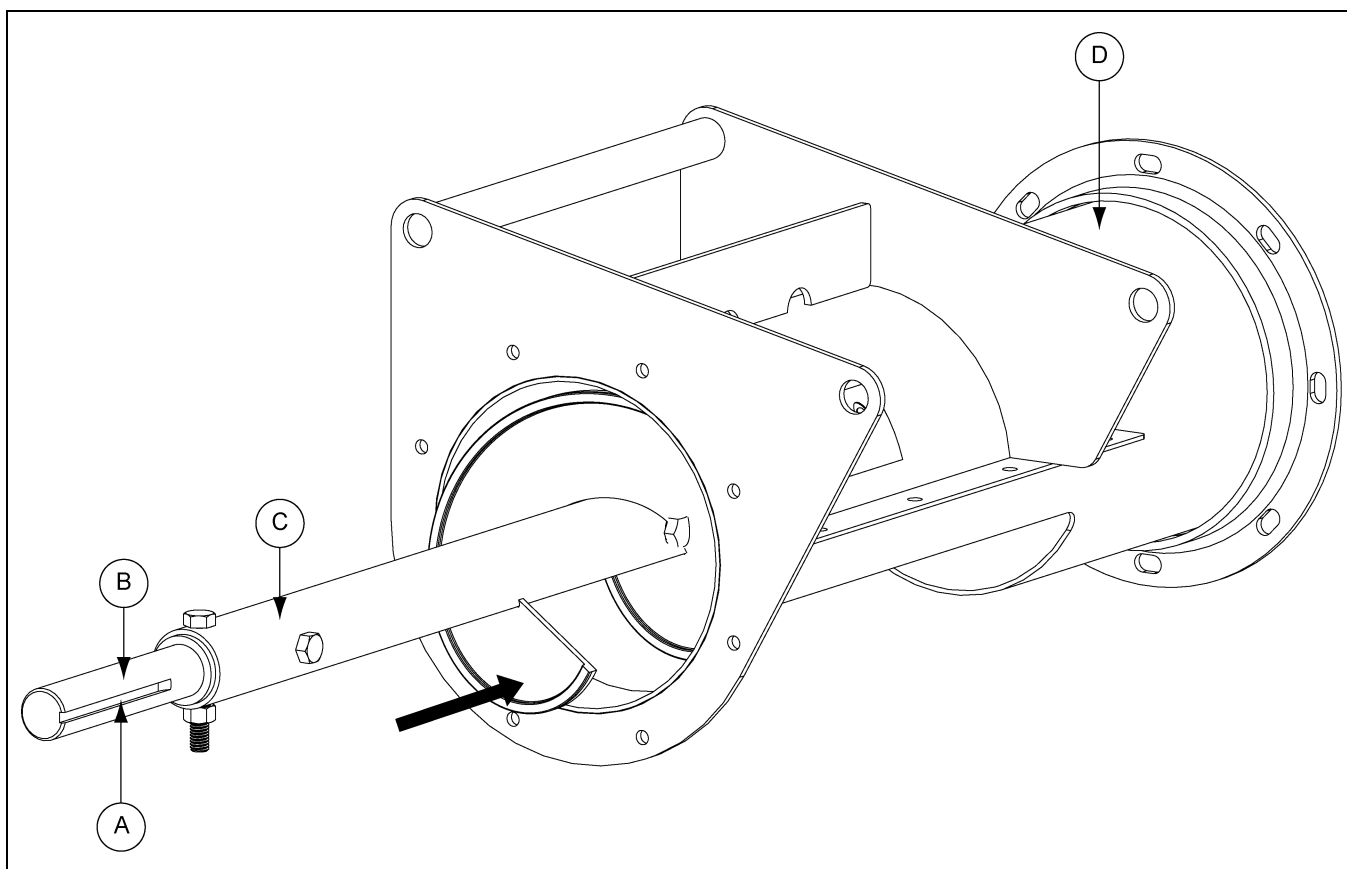


Figure 4B

Ref #	Description
A	Keyway
B	Drive Shaft
C	Discharge Flight
D	Discharge Tube

4. Assembly

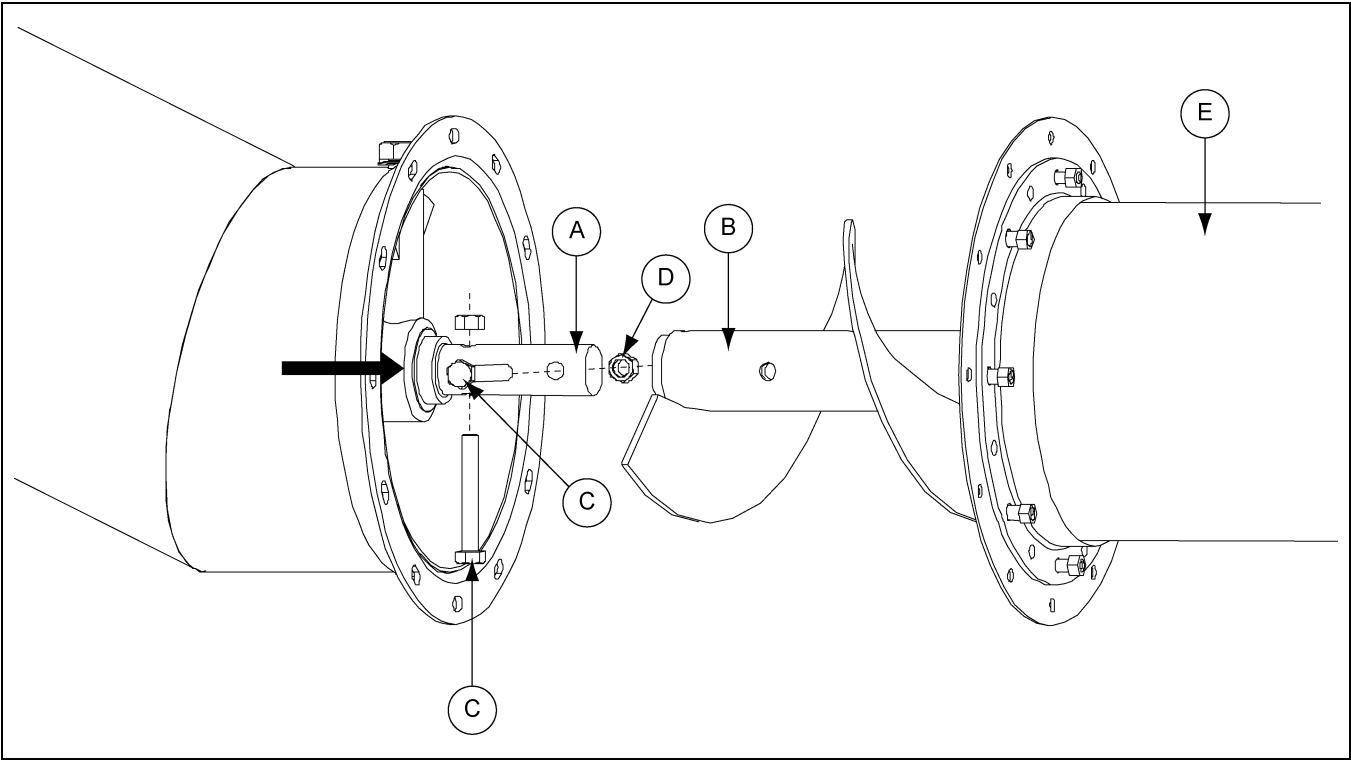
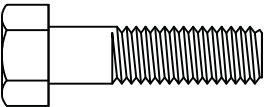
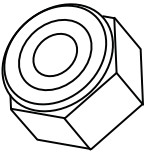


Figure 4C

Ref #	Description
A	Bearing Connecting Stub
B	Bin Unload Flight
C	Bolt (See chart <a href="#">below</a> for sizes.)
D	Stover Nut (See chart <a href="#">below</a> for sizes.)
E	Unload Tube

Type					Qty
	Part #	Description	Part #	Description	
6"	S-7687	3/8"-16 x 2" (50 mm)	S-8251	3/8" Stover Nut	2
8"	S-8316	7/16"-14 x 3" (75 mm)	S-8317	7/16" Stover Nut	2
10"	S-8314	1/2"-13 x 3-1/2" (90 mm)	S-8315	1/2" Stover Nut	2
12"	S-7893	5/8"-11 x 4" (100 mm)	S-8606	5/8" Stover Nut	2

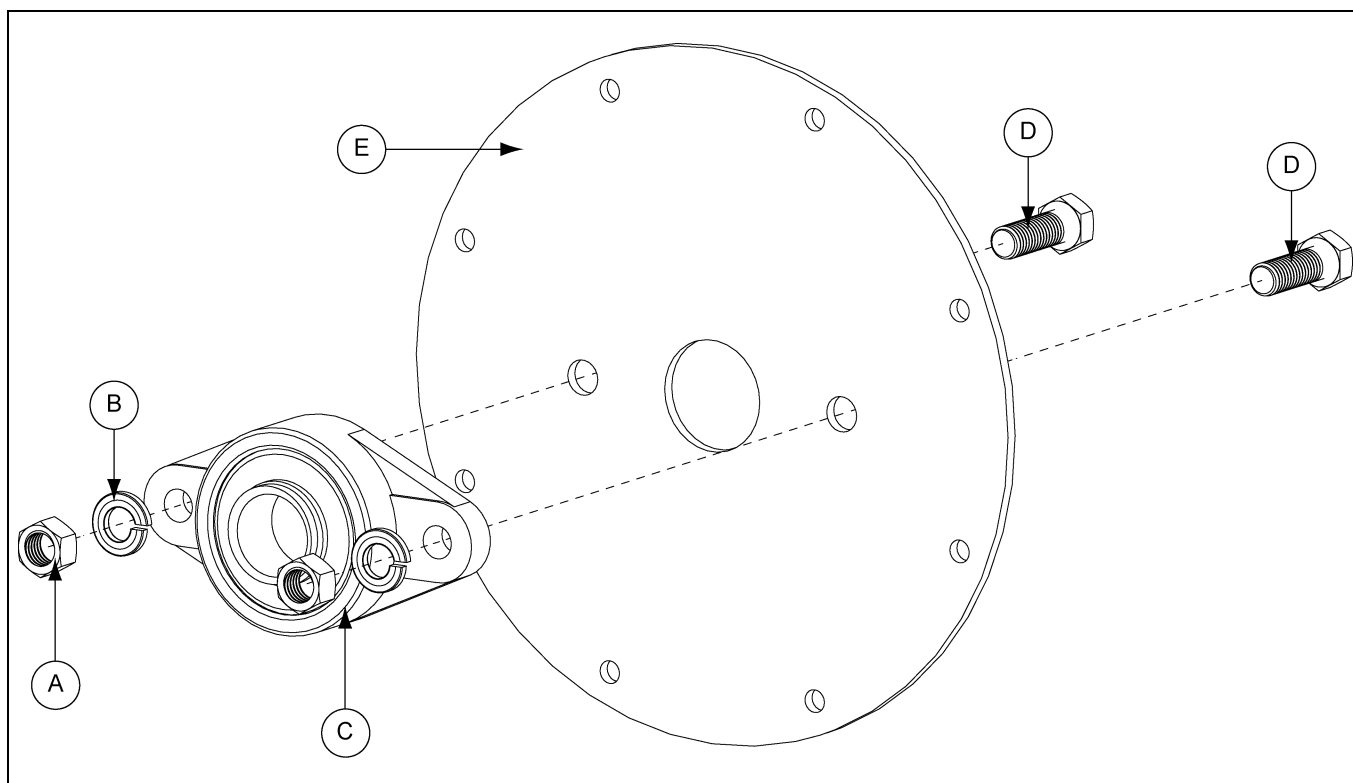
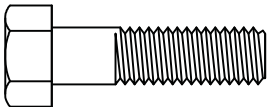
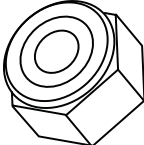
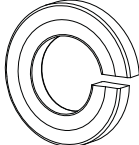


Figure 4D

Ref #	Description
A	Hex Nut (See chart <a href="#">below</a> for sizes.)
B	Split Lock Washer (See chart <a href="#">below</a> for sizes.)
C	Bearing Flange
D	Bolt (See chart <a href="#">below</a> for sizes.)
E	Bearing Plate

Type							Qty
	Part #	Description	Part #	Description	Part #	Description	
6"	S-7837	7/16"-14 x 1-1/2" (38 mm)	S-7332	7/16" Hex Nut	S-7014	7/16" Washer	2
8"	S-8760	1/2"-13 x 1-1/2" (38 mm)	S-3729	1/2" Hex Nut	S-236	1/2" Washer	2
10"	S-8760	1/2"-13 x 1-1/2" (38 mm)	S-3729	1/2" Hex Nut	S-236	1/2" Washer	4
12"	S-8399	5/8"-11 x 2" (50 mm)	S-4110	5/8" Hex Nut	S-3208	5/8" Washer	4

4. Assembly

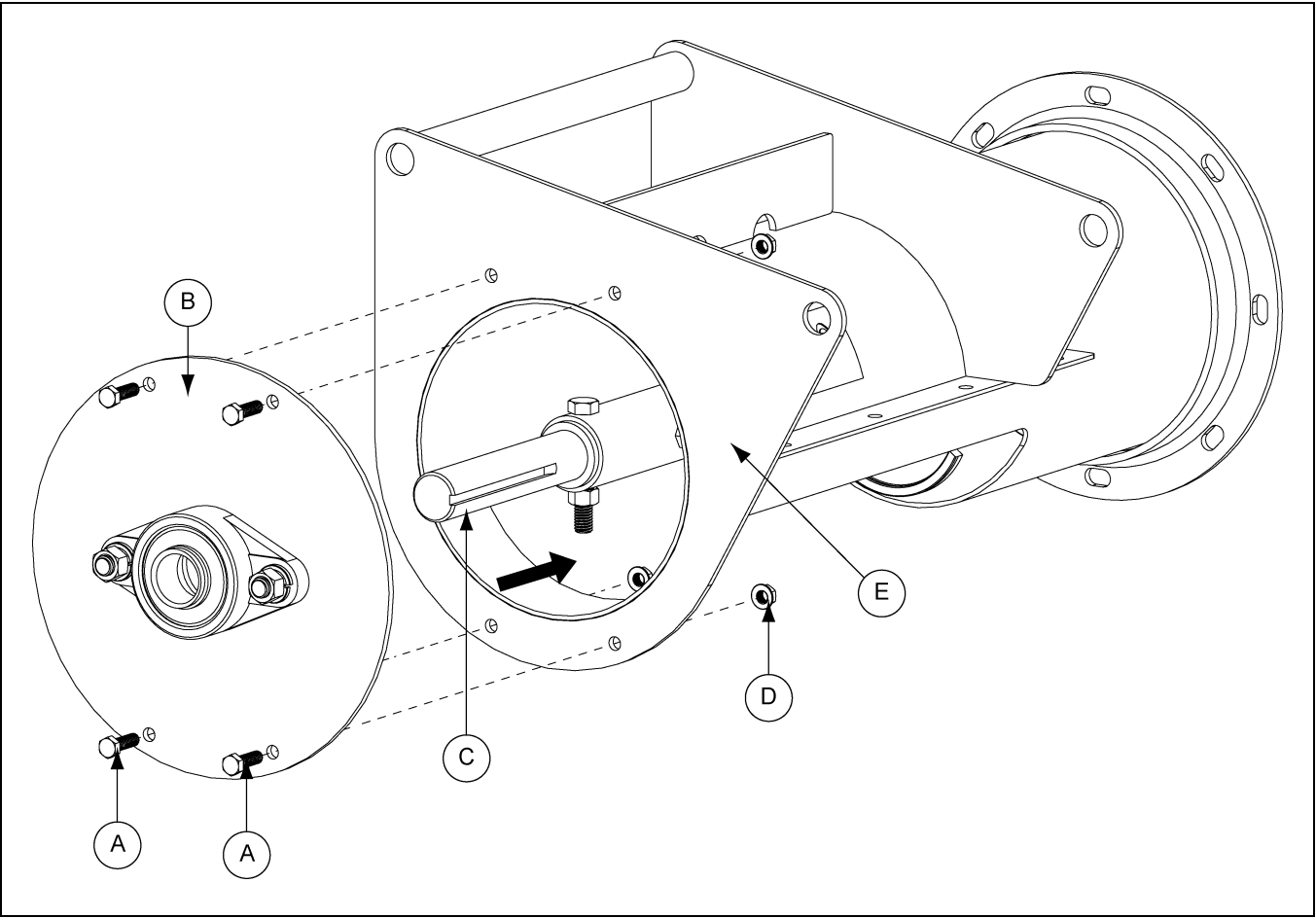
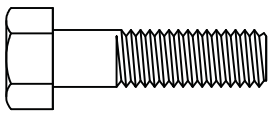
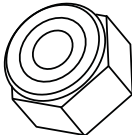


Figure 4E

Ref #	Description
A	Bolt (See chart <a href="#">below</a> for sizes.)
B	Bearing Plate
C	Drive Shaft
D	Serrated Flange Nut (See chart <a href="#">below</a> for sizes.)
E	Tube Flange

Type					Qty
	Part #	Description	Part #	Description	
6" and 8"	S-1196	5/16"-18 x 1" (25 mm)	S-3611	5/16" Flange Nut	4
10" and 12"	S-7469	3/8"-16 x 1" (25 mm)	S-968	3/8" Flange Nut	4

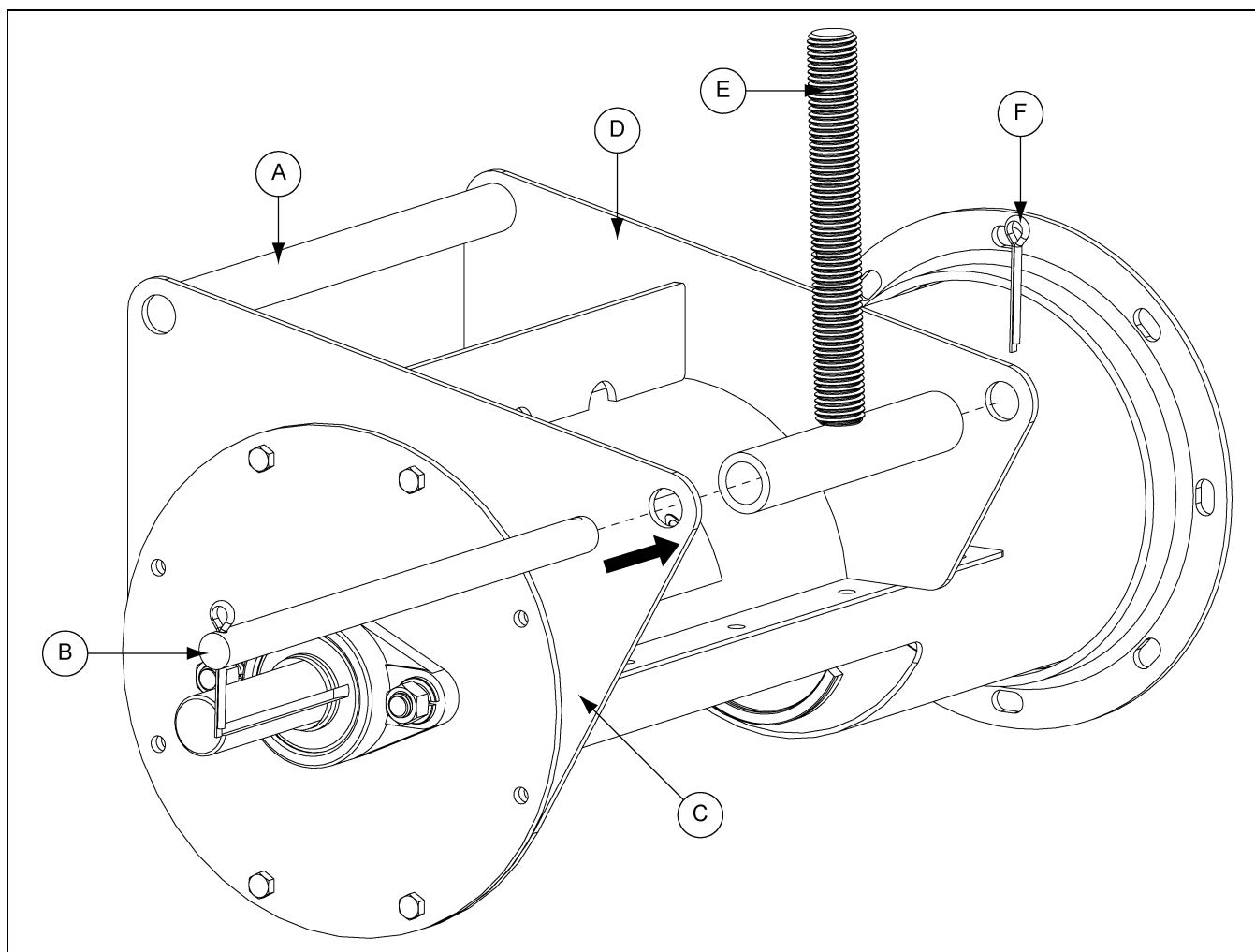
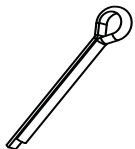


Figure 4F

Ref #	Description
A	Pivot Tube
B	Pivot Rod
C	Head Plate
D	Back Plate
E	Motor Mount Adjuster
F	Cotter Pin (See chart <a href="#">below</a> for sizes.)

Type			Qty
	Part #	Description	
6"-12"	S-6994	3/16" x 2" (50 mm)	2

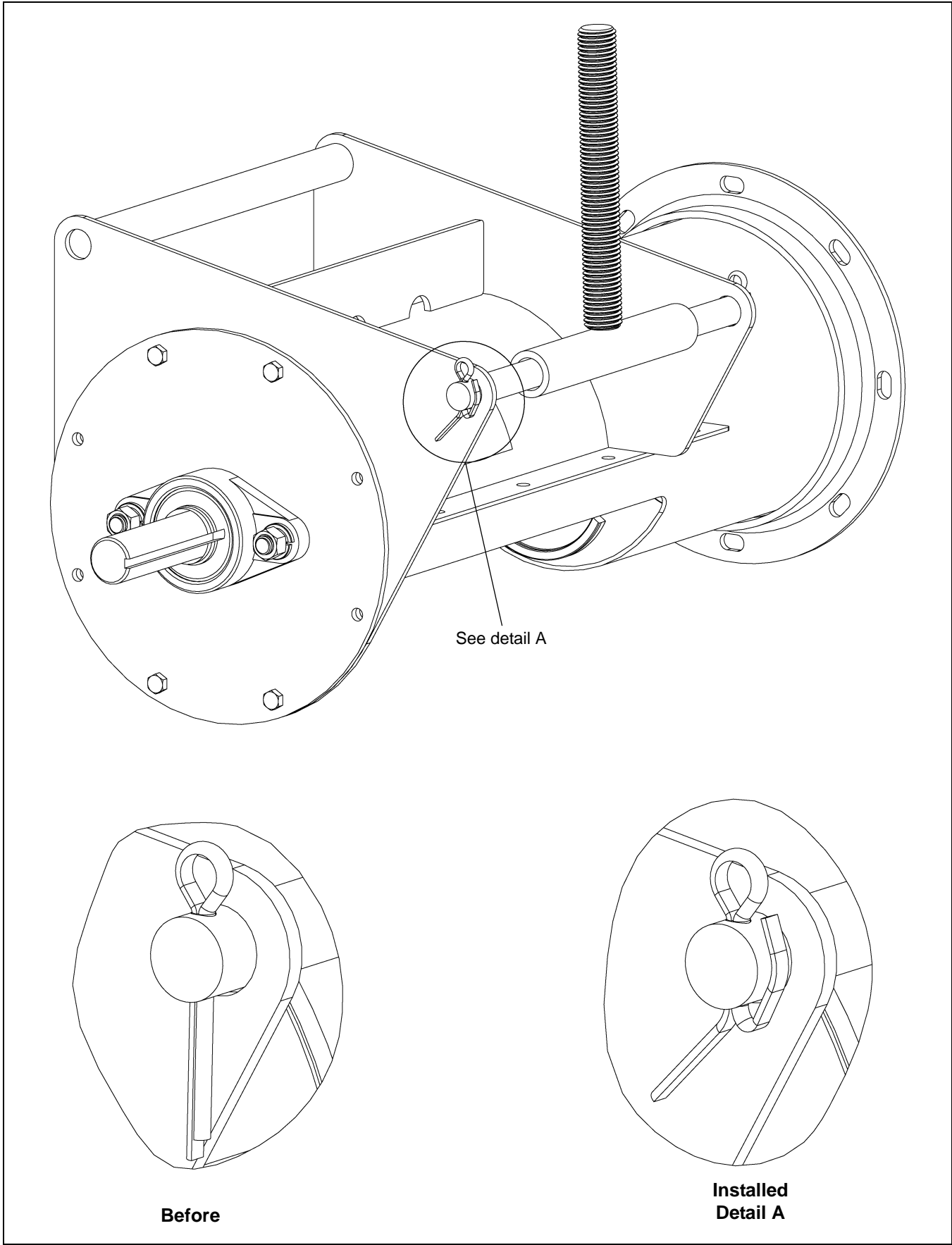


Figure 4G

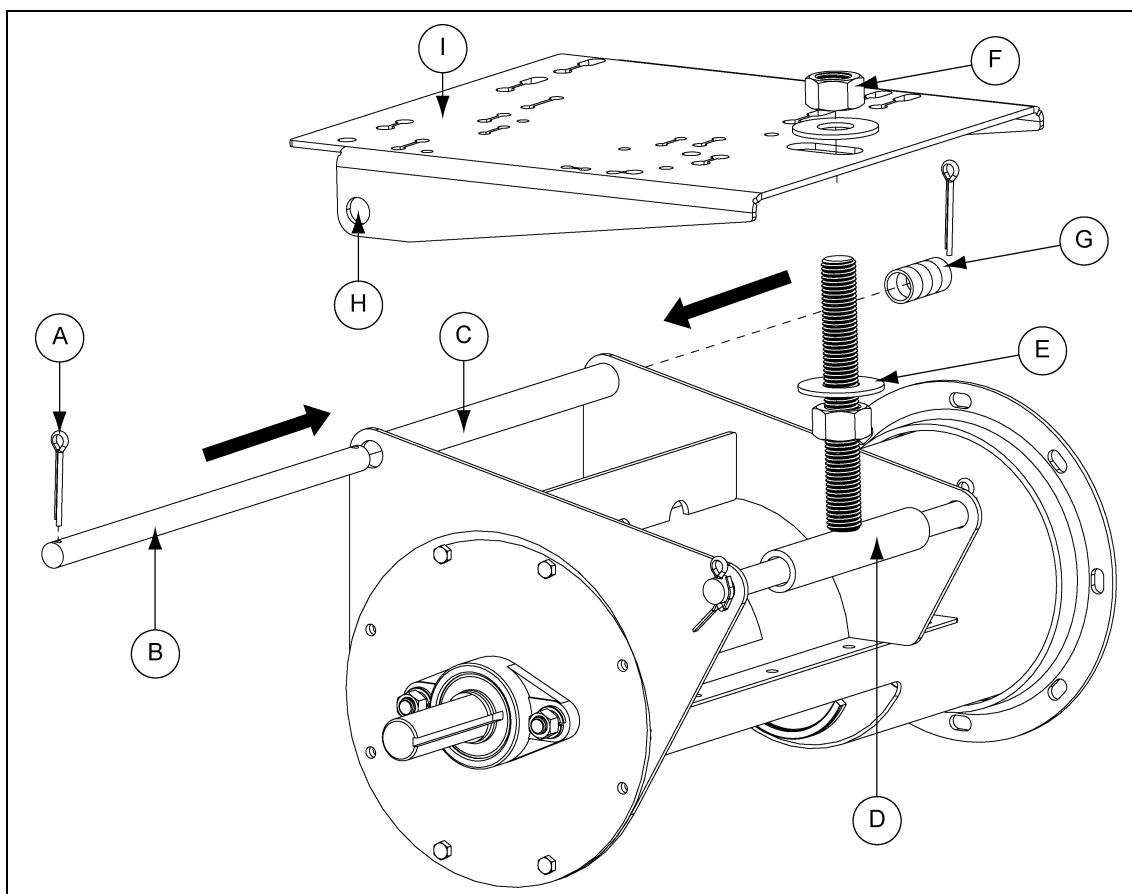
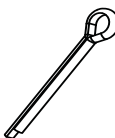
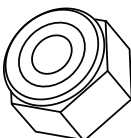
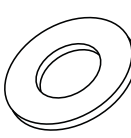
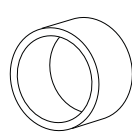


Figure 4H

Ref #	Description
A	Cotter Pin (See chart <a href="#">below</a> for sizes.)
B	Motor Mount Pivot Rod
C	Pivot Tube
D	Motor Mount Adjustment Shaft
E	Motor Mount Adjustment Washer (See chart <a href="#">below</a> for sizes.)
F	Motor Mount Adjustment Nut (See chart <a href="#">below</a> for sizes.)
G	Spacer (See chart <a href="#">below</a> for sizes.)
H	Pivot Hole
I	Motor Mount Plate

Type									Qty
	Part #	Description	Part #	Description	Part #	Description	Part #	Description	
6"-12"	S-6994	3/16" x 2" (50 mm)	S-240	1" Hex Nut	S-7835	1" Washer			2
8"-10"							GK7014	Pivot Spacer Tube	4
12"							GK7014	Pivot Spacer Tube	6

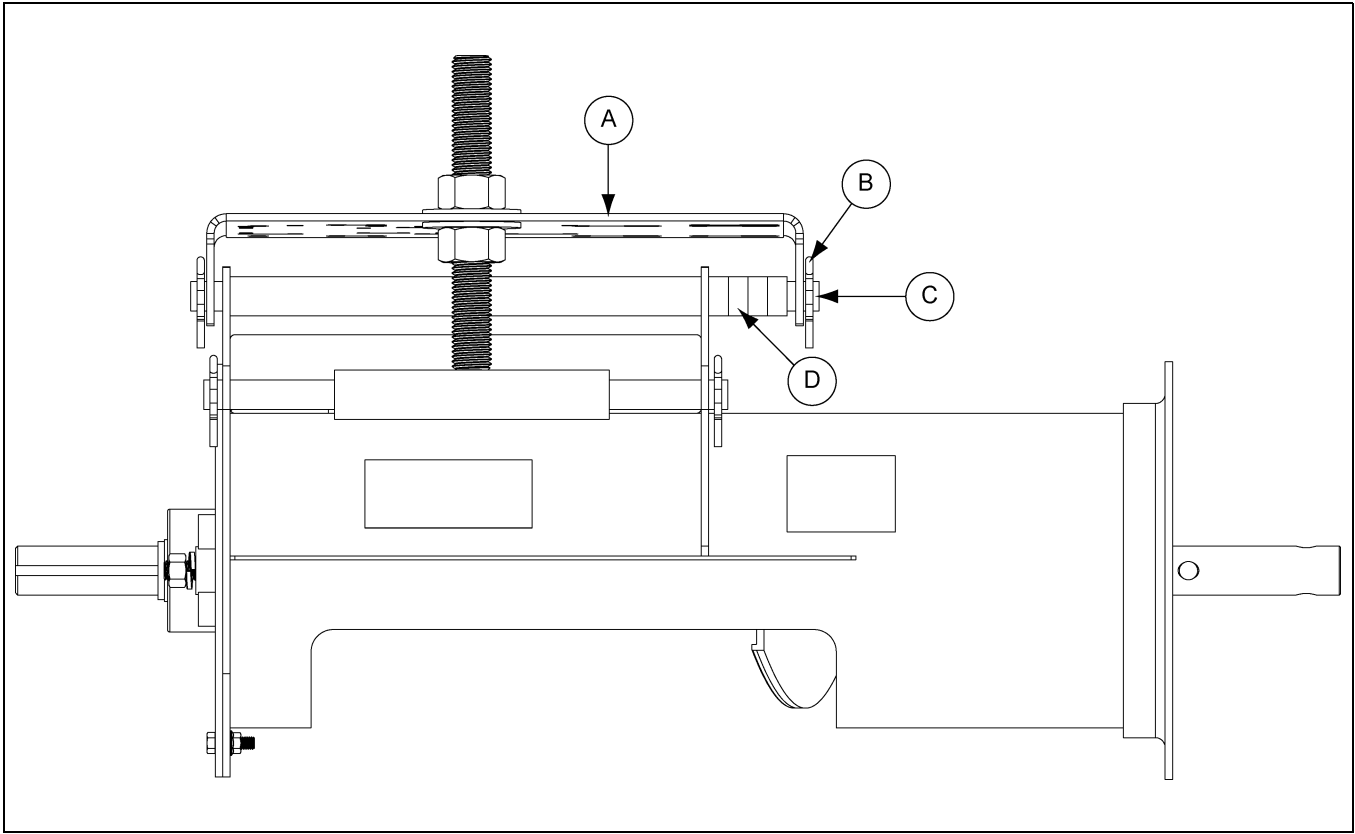


Figure 4I

Ref #	Description
A	Motor Mount Plate
B	Cotter Pin
C	Pivot Rod
D	Spacer

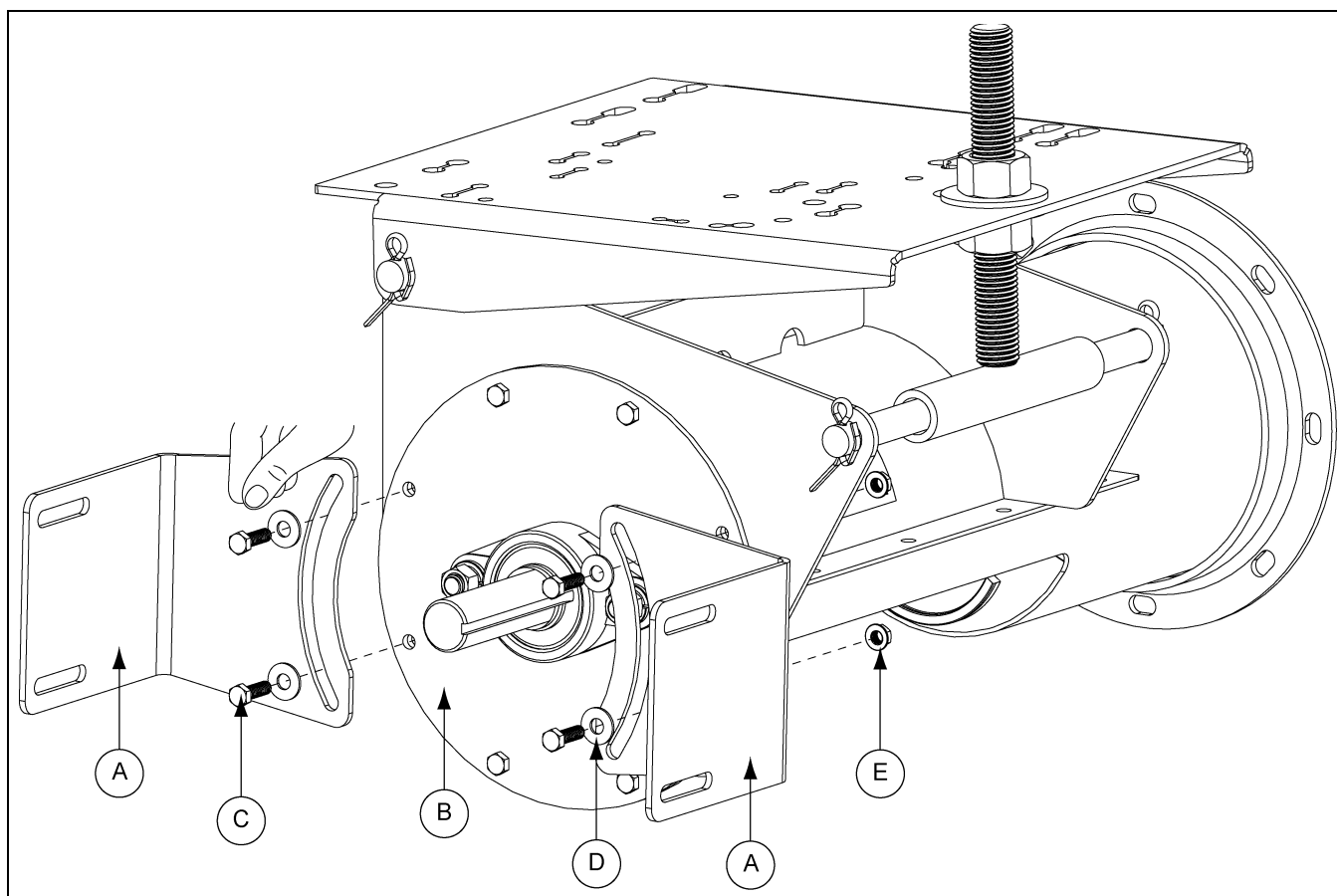
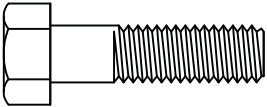
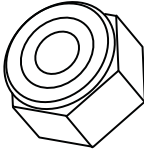
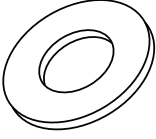


Figure 4J

Ref #	Description
A	Belt Guard Mounting Bracket
B	Bearing Plate
C	Bolt (See chart <a href="#">below</a> for sizes.)
D	Washer (See chart <a href="#">below</a> for sizes.)
E	Flange Nut (See chart <a href="#">below</a> for sizes.)

Type							Qty
	Part #	Description	Part #	Description	Part #	Description	
6" and 8"	S-1196	5/16"-18 x 1" (25 mm)	S-3611	5/16" Flange Nut	S-845	5/6" Washer	4
10" and 12"	S-7469	3/8"-16 x 1-1/4" (32 mm)	S-968	3/8" Flange Nut	S-248	3/8" Washer	4

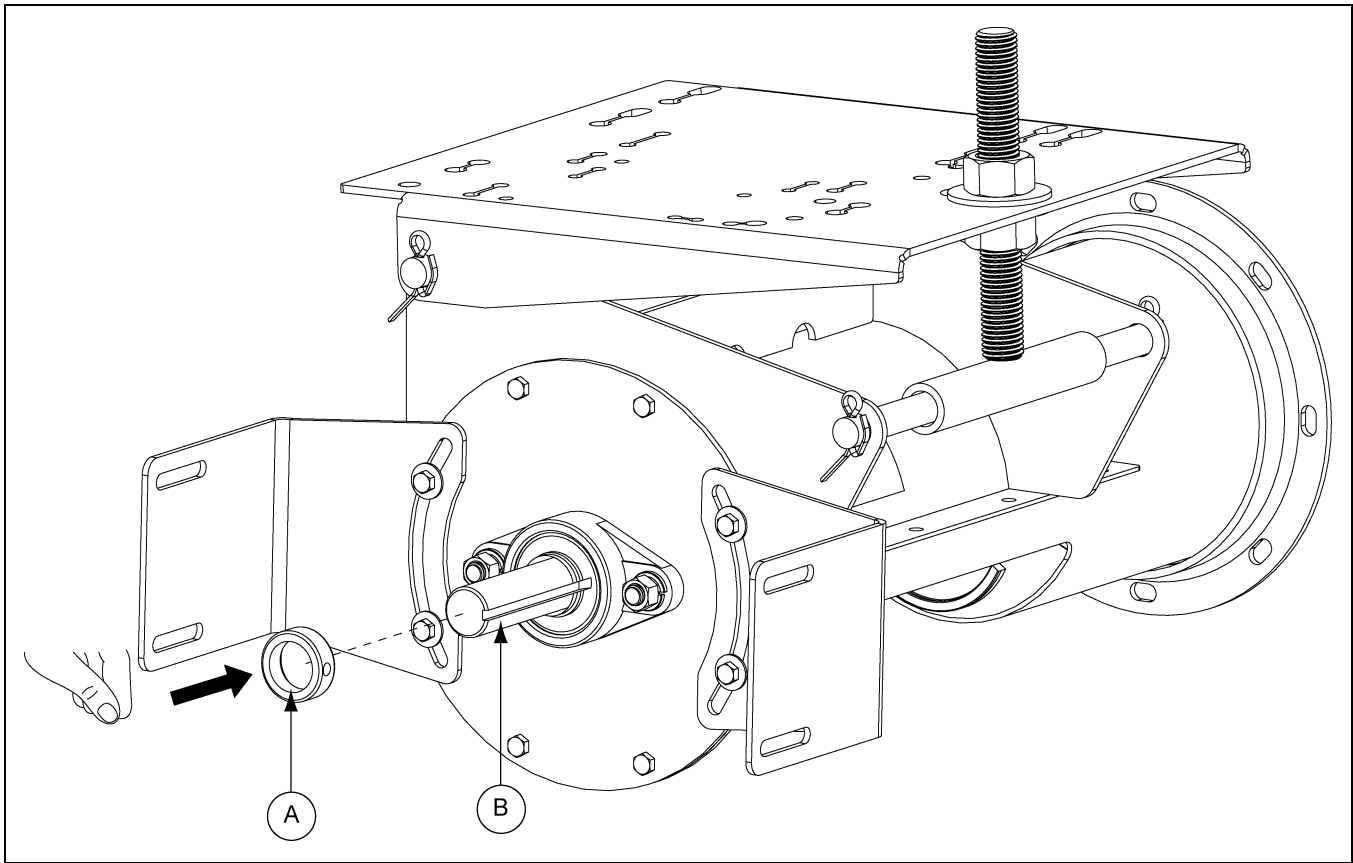


Figure 4K

Ref #	Description
A	Lock Collar
B	Drive Shaft

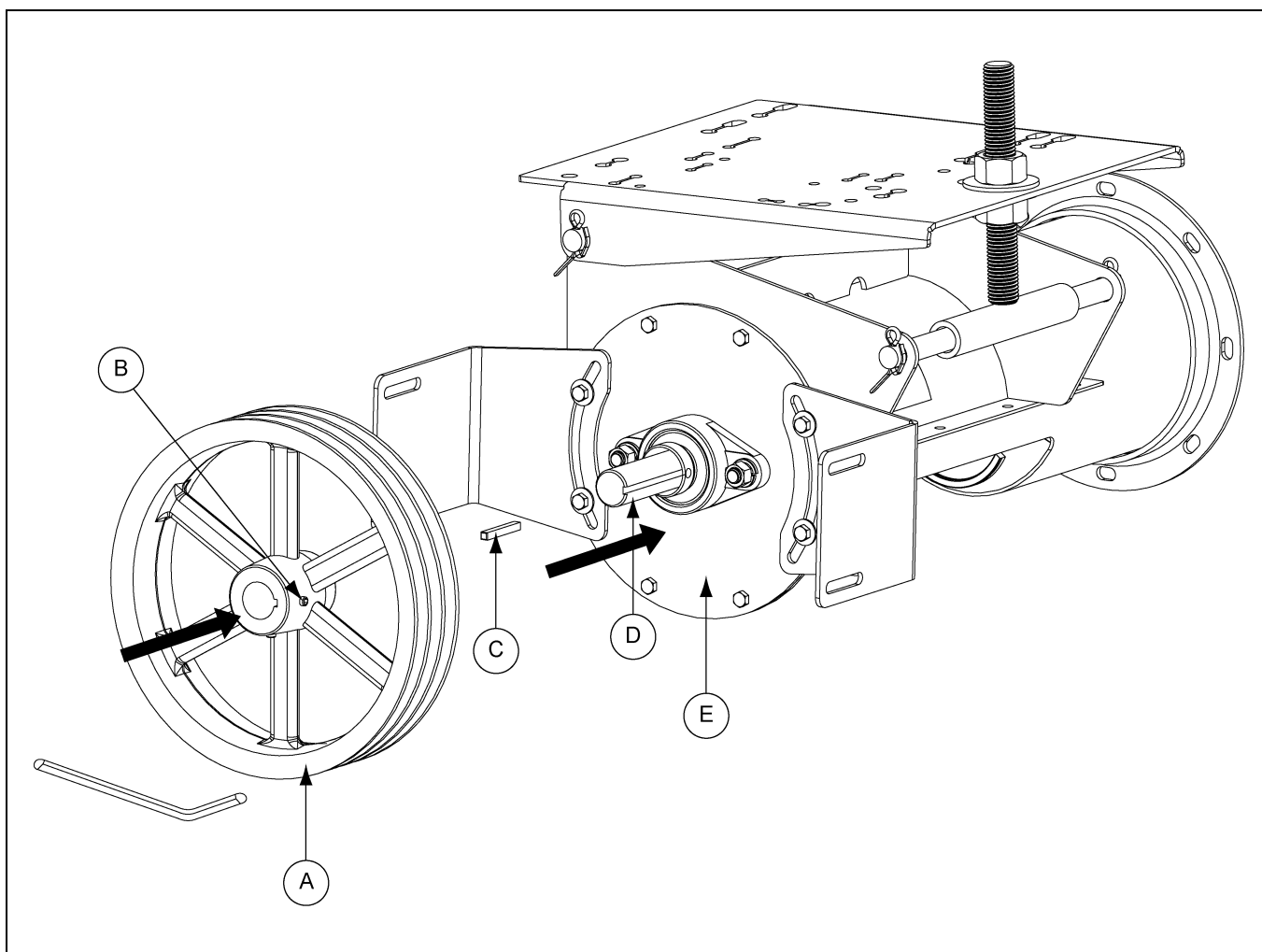


Figure 4L

Ref #	Description
A	Flight Pulley
B	Set Screw
C	Key
D	Drive Shaft
E	Bearing Plate

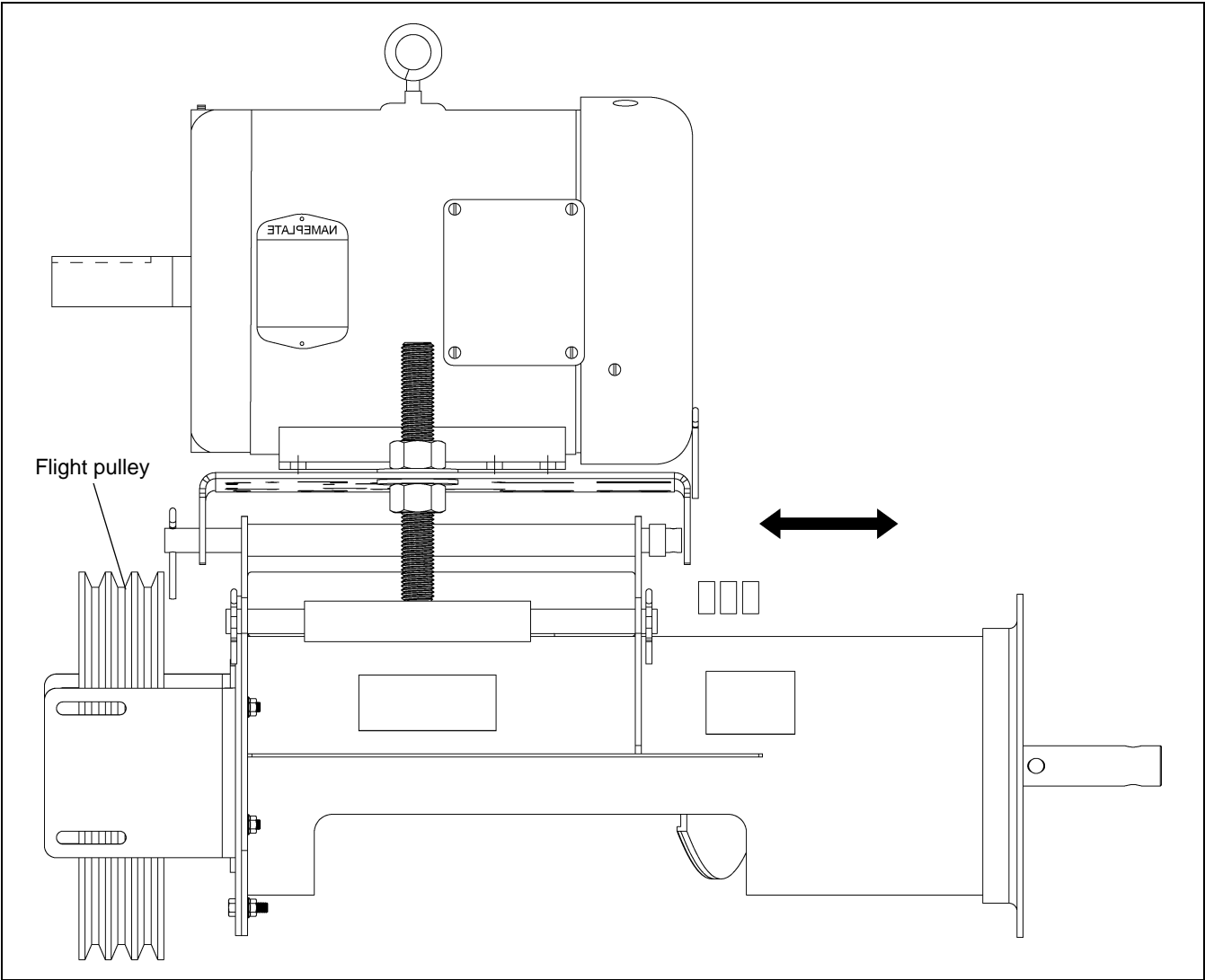
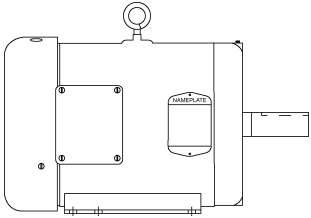
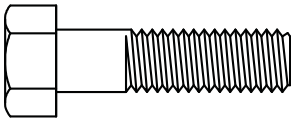


Figure 4M

		Qty
56	5/16"-18 x 1-1/4"	4
143T		
145T		
182T 184T	3/8"-16 x 1-1/4"	4
213T 215T		
254T 256T	1/2"-13 x 1-3/4"	4

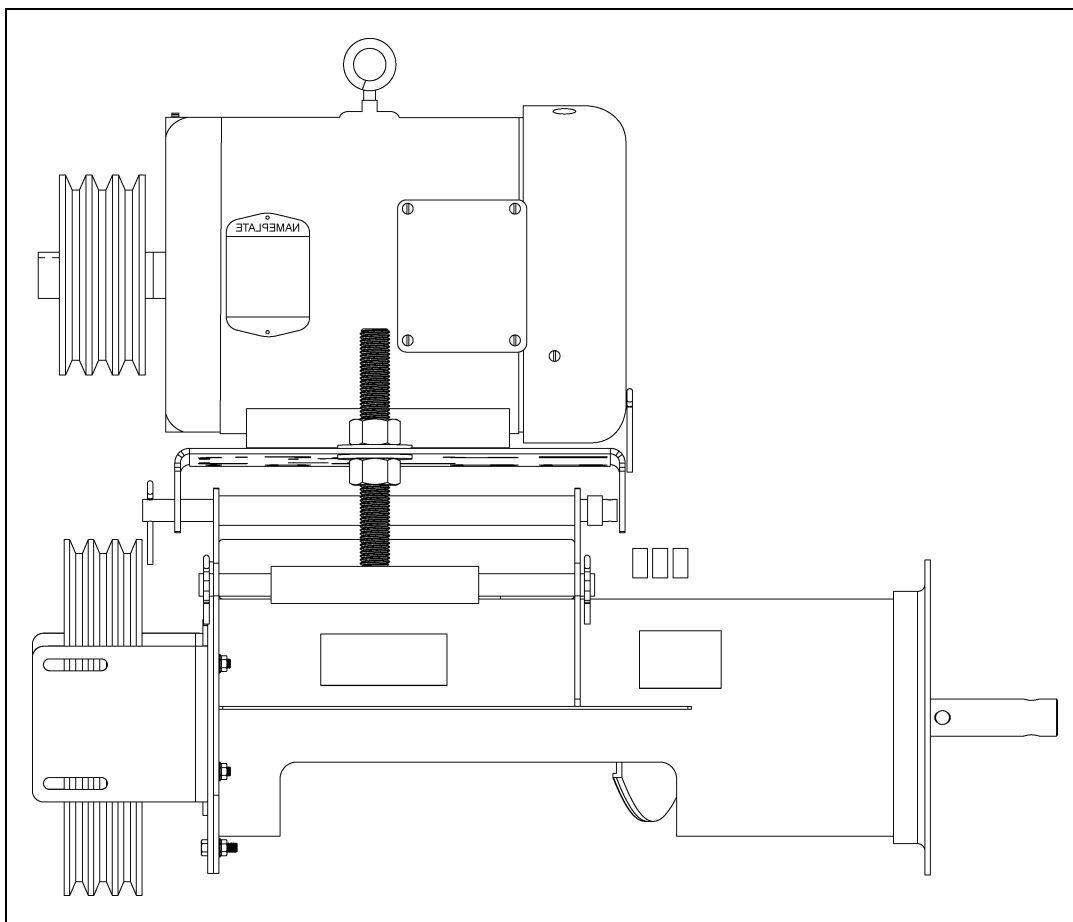


Figure 4N

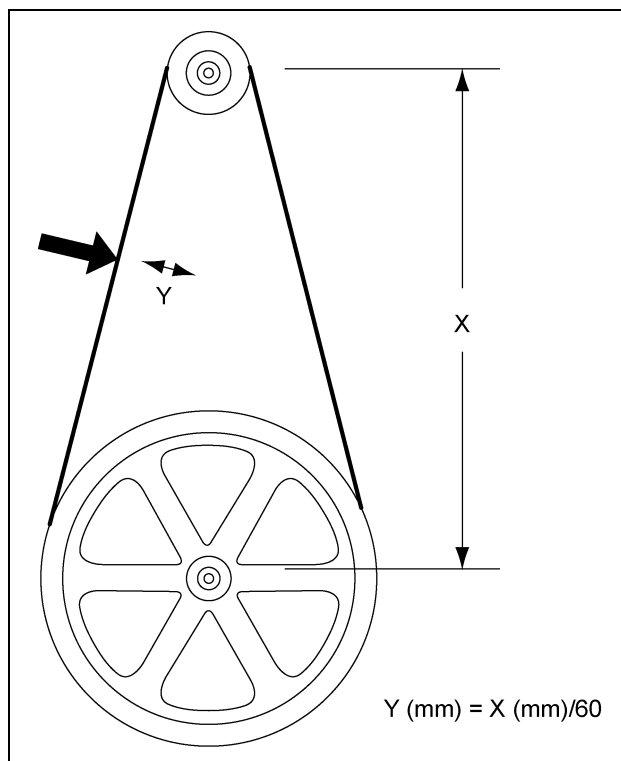


Figure 4O

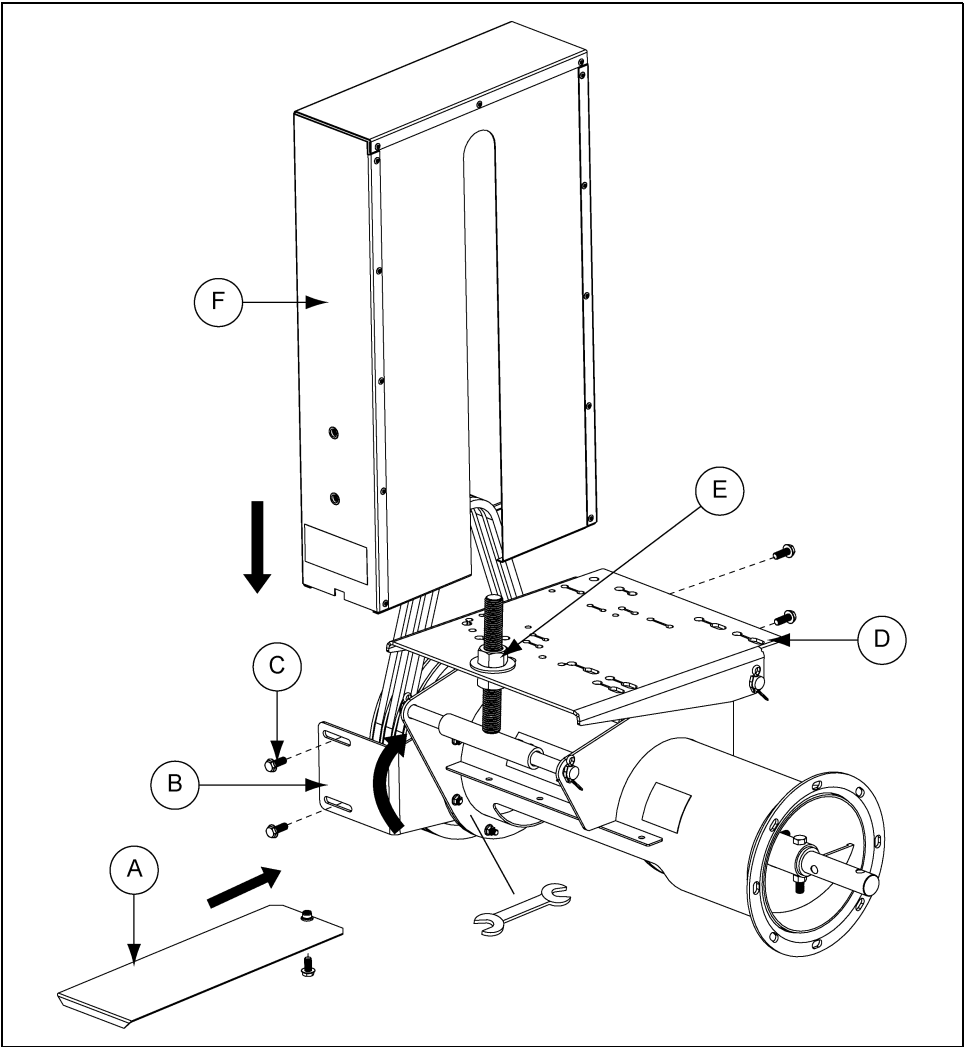
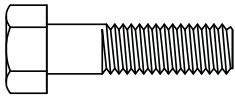


Figure 4P

Ref #	Description
A	Bottom Belt Guard Cover
B	Belt Guard Mounting Bracket
C	Bolt (See chart <a href="#">below</a> for sizes.)
D	Motor Mount Plate
E	Motor Mount Adjustment Nut
F	Belt Guard

Type			Qty
	Part #	Description	
6"-12"	S-9067	3/8"-16 x 3/4" (19 mm)	1
	S-9065	3/8"-16 x 1" (25 mm)	4

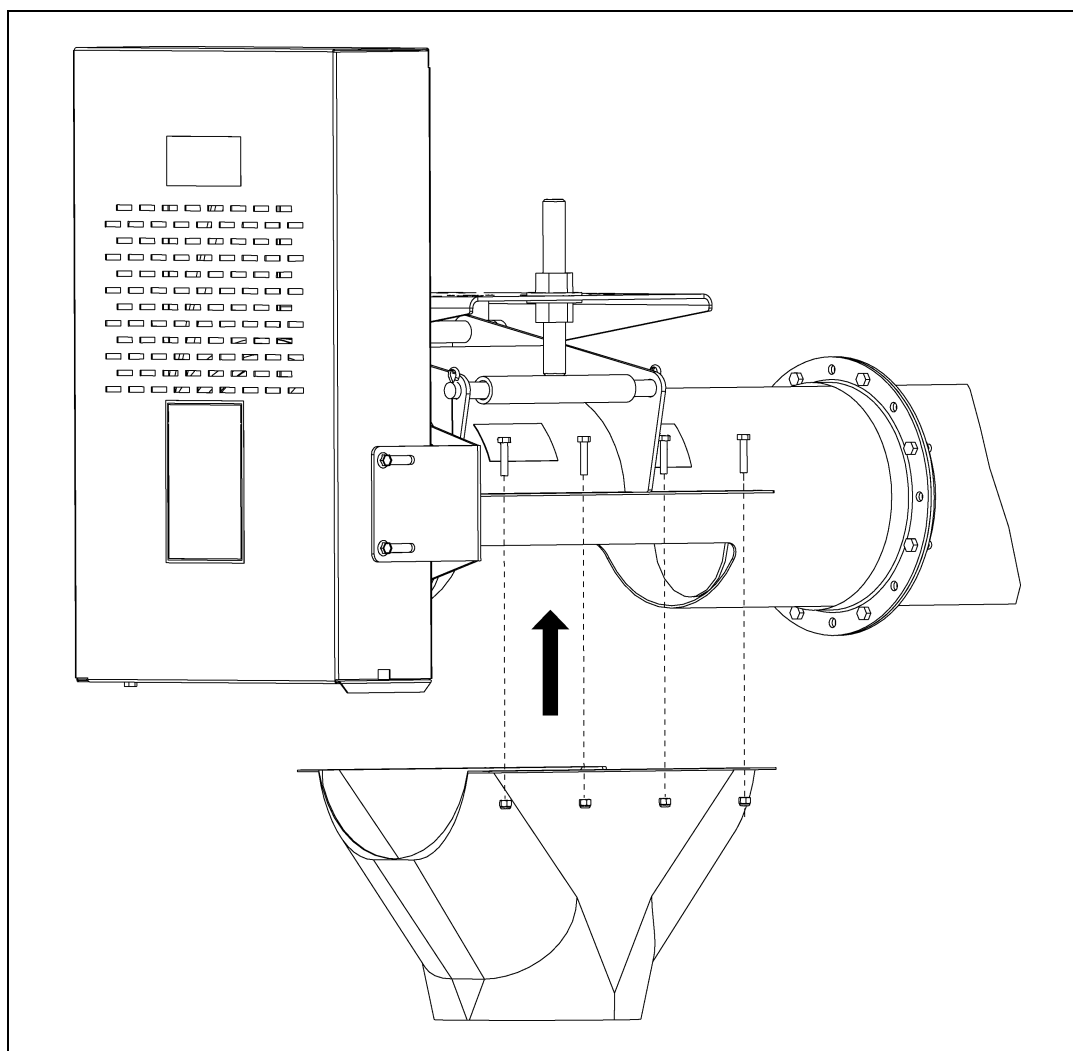
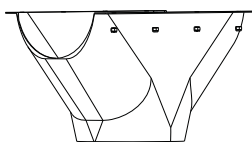
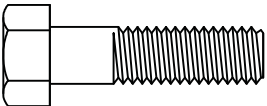
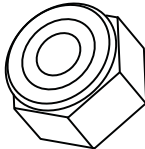


Figure 4Q

Type							Qty
	Part #	Description	Part #	Description	Part #	Description	
6"	GK7173 x 1	Discharge Spout	S-1196	5/16" x 1" (25 mm)	S-7382	5/16" Nylock Nut	6
8"	GK7174 x 1	Discharge Spout	S-9065	3/8"-16 x 1" (25 mm)	S-7382	5/16" Nylock Nut	8
10"	GK7175 x 1	Discharge Spout	S-2741	5/16"-18 x 1-1/2" (25 mm)	S-7382	5/16" Nylock Nut	8
12"	GK7176 x 1	Discharge Spout	S-2741	5/16"-18 x 1-1/2" (25 mm)	S-7382	5/16" Nylock Nut	10

Controls are not supplied with the auger. Refer to electrical section [on Page 13](#) for minimum electrical control requirements. [See Figure 5A](#) below for example control and safety circuit.



## Pre-Start Checks



***Do not start the auger until final checks have been made:***

1. ***Correct belt tension.*** (See Figure 40 on Page 41.)
2. ***All guarding in place.*** (See Page 15.)
3. ***Assembly in accordance with this manual.***

## Start-Up

1. Start briefly and check for smooth running.
2. Part load the auger and allow the system to run for 10 minutes.
3. Check motor current and set overload relay.
4. Allow the auger to run empty before stopping.

## Operation

1. Observe rules for auger operation. (See Page 12.)
2. Do not run the system for long periods unloaded.

## Normal Shut Down



***Never stop the auger under load.***

1. Disconnect and lock out before leaving the site.

## Emergency Shut Down

1. Press one of the emergency stops, installed with the system. (See Page 13.)
2. Disconnect and lock out power.
3. Close all grain control gates/wells.
4. Do not re-start until the issue requiring emergency stoppage has been cleared.

## Clearing Blockages

1. Check all downstream systems are unblocked and running freely.
2. Keep all control gates/wells closed.
3. Attempt to clear the blockage by start/stop of the motor.
4. DO NOT override the motor overload relay.
5. If removal of the power head is required, disconnect and lock out ALL power first.
6. Remove power head and clear blockage manually.
7. Re-assemble and re-fit all guards.
8. Attempt to run the system.

## 7. Maintenance

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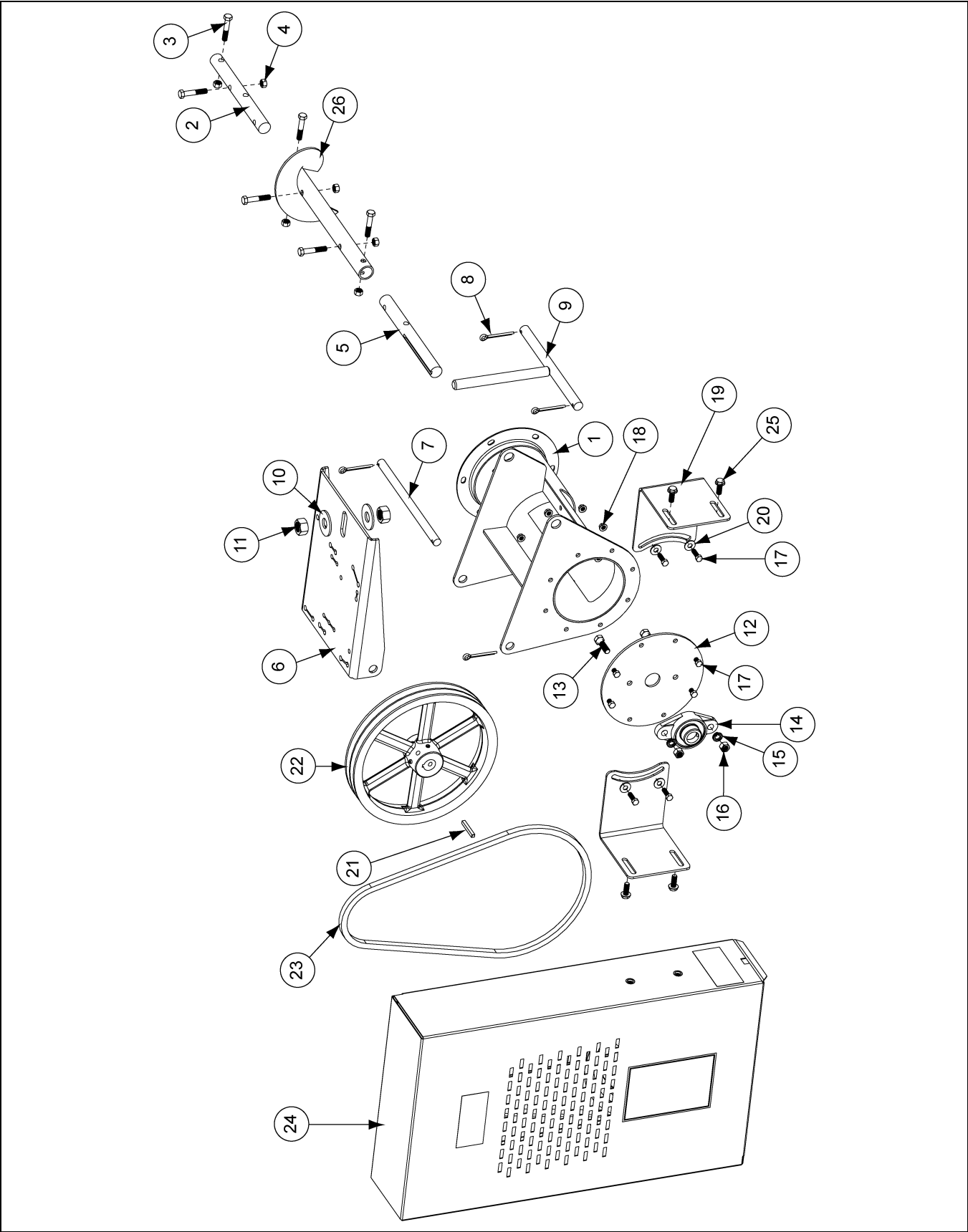


***Shut down and lockout all power before carrying out maintenance.***

1. Check correct belt tension every 30 days of running (or if slipping). [\(See Figure 40 on Page 41.\)](#)
2. Grease bearings every 3 months of running. Use standard high temperature grease.

1. 6" Farm Duty Horizontal Drive Unit Parts - ([See Pages 48 and 49.](#))
2. 8" Farm Duty Horizontal Drive Unit Parts - ([See Pages 50 and 51.](#))
3. 8" Commercial Duty Horizontal Drive Unit Parts - ([See Pages 52 and 53.](#))
4. 10" Farm and Commercial Duty Horizontal Drive Unit Parts - ([See Pages 54 and 55.](#))
5. 12" Commercial Duty Horizontal Drive Unit Parts - ([See Pages 56 and 57.](#))

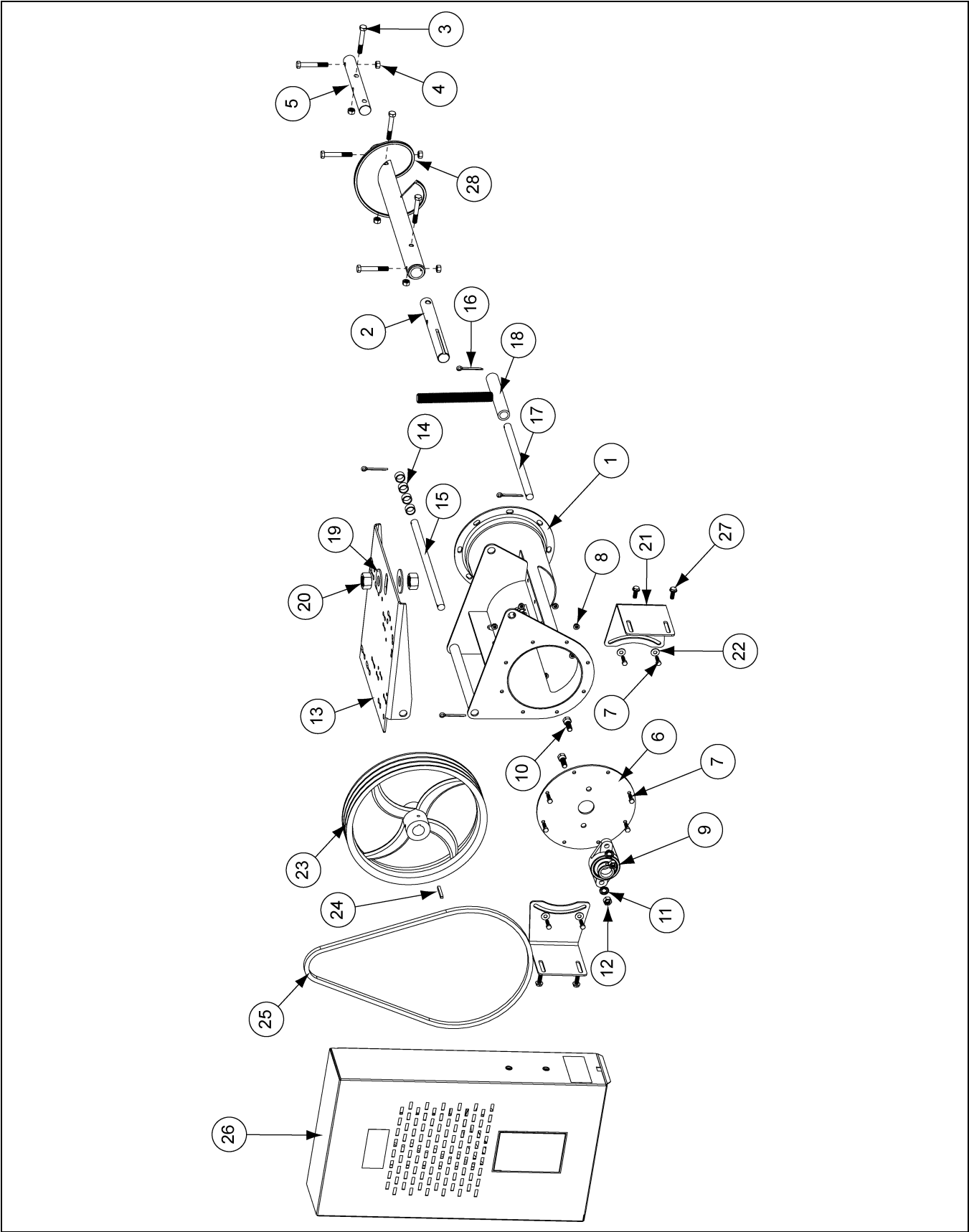
6" Farm Duty Horizontal Drive Unit Parts



## 6" Farm Duty Horizontal Drive Unit Parts List

Ref #	Part #	Description
1	GK6996	6" Discharge Tube
2	GK1351	Connecting Shaft - 1" O.D. x 9.59"
3	S-7687	<b>Flight Attachment Bolt</b> - Bolt, HHCS 3/8"-16 x 2" Zinc Grade 8
4	S-8251	<b>Flight Attachment Nut</b> - Stover Nut 3/8"-16 Zinc Grade C
5	GK2025	Drive Shaft - 1" O.D. x 10"
6	GK7052-Y	Motor Mount Plate
7	GK7058	Motor Mount Plate Pivot Rod
8	S-6994	Cotter Pin 3/16" x 2" Zinc Grade 2
9	GK7060	Motor Mount Adjuster
10	S-866	<b>Motor Mount Adjuster Washer</b> - Flat Washer 3/4" USS ZN Flat Grade 2
11	S-234	<b>Motor Mount Adjuster Nut</b> - Hex Nut 3/4"-10 Zinc Grade 5
12	GK7061-BS	Bearing Plate - Bin Silver
13	S-7837	<b>Bearing Bolt</b> - Bolt, HHCS 7/16"-14 x 1-1/2" Zinc Grade 5
14	GK1049	Bearing, 1" Bore, 2 Hole Flange with Locking Collar
15	S-7014	<b>Bearing Lock Washer</b> - Split Lock Washer 7/16" Zinc
16	S-7332	<b>Bearing Nut</b> - Hex Nut 7/16"-14 YDP Grade 5
17	S-1196	Bolt, HHCS 5/16"-18 x 1" Zinc Grade 5
18	S-3611	Flange Nut 5/16"-18 YDP Grade 2
19	GK7062	Belt Guard Mounting Bracket
20	S-845	<b>Belt Guard Mounting Bracket Washer</b> - Flat Washer 5/16" YDP Grade 2
21	S-4513	Square Key 1/4" x 2"
22	GK1309	Sheave, 12" O.D., 1" I.D., 1 Groove
22	GK1321	Sheave, 12" O.D., 1" I.D., 2 Groove
23	GK1308	V-Belt B46
23	GK1323	V-Belt B48
24	GK7005	Belt Guard - 12" and 15"
25	S-9065	<b>Belt Guard Bolt</b> - Flange Bolt 3/8"-16 x 1" Zinc Grade 5
26	GK1865	5" Discharge Flight

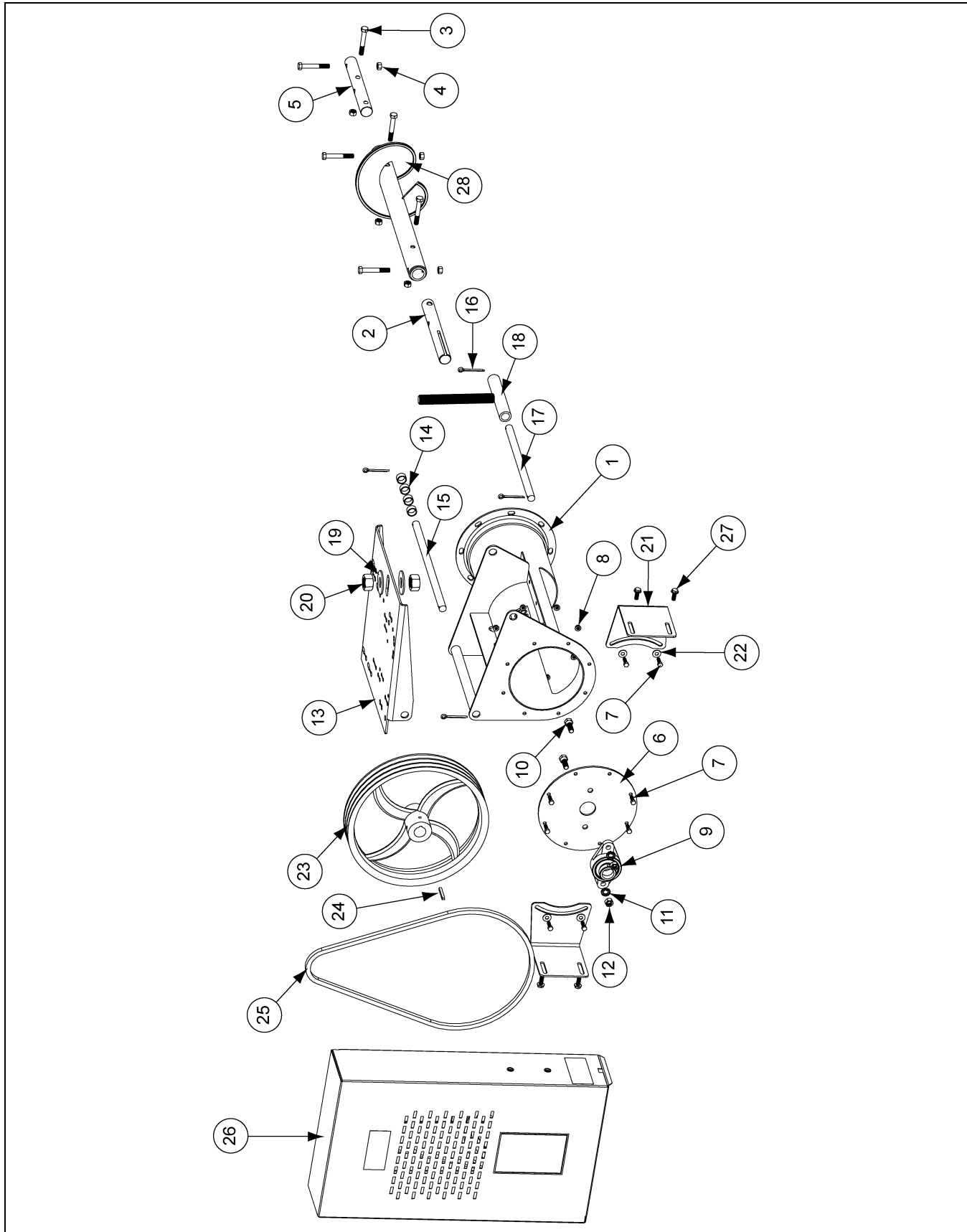
8" Farm Duty Horizontal Drive Unit Parts



## 8" Farm Duty Horizontal Drive Unit Parts List

Ref #	Part #	Description
1	GK6997	8" Discharge Tube
2	GK1331	Drive Shaft - 1-1/4" O.D. x 10-1/2"
3	S-8316	<b>Flight Attachment Bolt</b> - Bolt, HHCS 7/16"-14 x 3" Zinc YDP Grade 8
4	S-8317	<b>Flight Attachment Nut</b> - Stover Nut 7/16"-14 Zinc Grade C
5	GK1328	Connecting Shaft - 1-1/4" O.D. x 9-1/2"
6	GK6987-BS	Bearing Plate - Bin Silver
7	S-1196	Bolt, HHCS 5/16"-18 x 1" Zinc Grade 5
8	S-3611	Flange Nut 5/16"-18 YDP Grade 2
9	GK1330	Bearing, 1-1/4" Bore, 2 Hole Flange with Locking Collar
10	S-8760	<b>Bearing Bolt</b> - Bolt, HHCS 1/2"-13 x 1-1/2" Zinc Grade 5
11	S-236	<b>Bearing Lock Washer</b> - Split Lock Washer 1/2" Zinc
12	S-3729	<b>Bearing Nut</b> - Hex Nut 1/2"-13 YDP Grade 5
13	GK6986-Y	Motor Mount Plate
14	GK7014	Pivot Spacer Tube
15	GK7013	Motor Mount Pivot Rod
16	S-6994	Cotter Pin 3/16" x 2" Zinc Grade 2
17	GK7012	Motor Mount Adjuster Pivot Rod
18	GK6942	Motor Mount Adjuster
19	S-7835	<b>Motor Mount Adjuster Washer</b> - Flat Washer 1" I.D. x 2" O.D. Zinc
20	S-240	<b>Motor Mount Adjuster Nut</b> - Hex Nut 1"-8 Zinc Grade 5
21	GK7006	Belt Guard Mounting Bracket
22	S-845	<b>Belt Guard Mounting Bracket Washer</b> - Flat Washer 5/16" YDP Grade 2
23	GK1869	Sheave, 15" O.D., 1-1/4" I.D., 2 Groove
23	GK2234	Sheave, 15" O.D., 1-1/4" I.D., 3 Groove
24	S-4513	Square Key 1/4" x 2"
25	GK1952	V-Belt B50
26	GK7005	Belt Guard - 12" and 15"
27	S-9065	<b>Belt Guard Bolt</b> - Flange Bolt 3/8"-16 x 1" Zinc Grade 5
28	GK1325	7" Discharge Flight

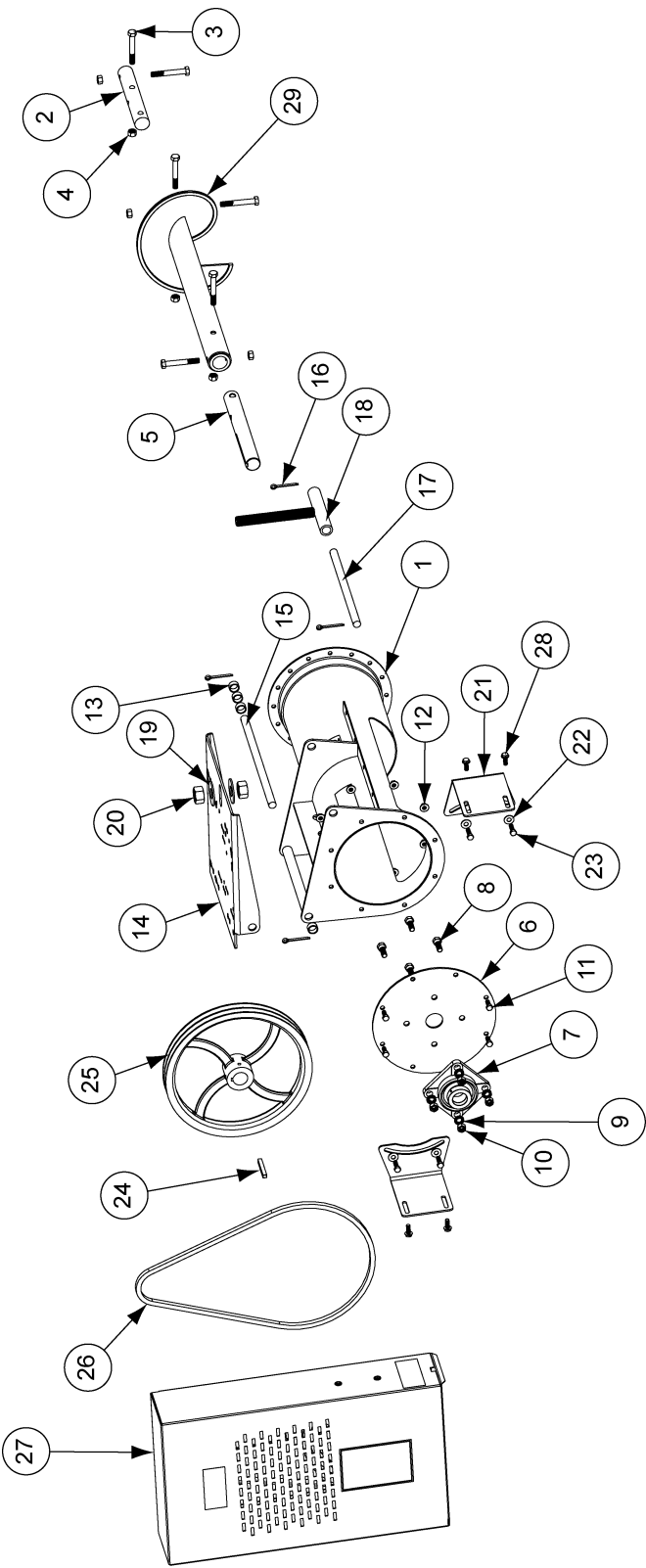
8" Commercial Duty Horizontal Drive Unit Parts



## 8" Commercial Duty Horizontal Drive Unit Parts List

Ref #	Part #	Description
1	GK6997	8" Discharge Tube
2	GK1331	Drive Shaft - 1-1/4" O.D. x 10-1/2"
3	S-8316	<b>Flight Attachment Bolt</b> - Bolt, HHCS 7/16"-14 x 3" Zinc YDP Grade 8
4	S-8317	<b>Flight Attachment Nut</b> - Stover Nut 7/16"-14 Zinc Grade C
5	GK1328	Connecting Shaft - 1-1/4" O.D. x 9-1/2"
6	GK6987-BS	Bearing Plate - Bin Silver
7	S-1196	Bolt, HHCS 5/16"-18 x 1" Zinc Grade 5
8	S-3611	Flange Nut 5/16"-18 YDP Grade 2
9	GK1330	Bearing, 1-1/2" Bore, 2 Hole Flange with Locking Collar
10	S-8760	<b>Bearing Bolt</b> - Bolt, HHCS 1/2"-13 x 1-1/2" Zinc Grade 5
11	S-236	<b>Bearing Lock Washer</b> - Split Lock Washer 1/2" Zinc
12	S-3729	<b>Bearing Nut</b> - Hex Nut 1/2"-13 YDP Grade 5
13	GK6986-Y	Motor Mount Plate
14	GK7014	Pivot Spacer Tube
15	GK7013	Motor Mount Pivot Rod
16	S-6994	Cotter Pin 3/16" x 2" Zinc Grade 2
17	GK7012	Motor Mount Adjuster Pivot Rod
18	GK6942	Motor Mount Adjuster
19	S-7835	<b>Motor Mount Adjuster Washer</b> - Flat Washer 1" I.D. x 2" O.D. Zinc
20	S-240	<b>Motor Mount Adjuster Nut</b> - Hex Nut 1"-8 Zinc Grade 5
21	GK7006	Belt Guard Mounting Bracket
22	S-845	<b>Belt Guard Mounting Bracket Washer</b> - Flat Washer 5/16" YDP Grade 2
23	GK1869	Sheave, 15" O.D., 1-1/4" I.D., 2 Groove
23	GK2234	Sheave, 15" O.D., 1-1/4" I.D., 3 Groove
24	S-4513	Square Key 1/4" x 2"
25	GK1346	V-Belt B57
26	GK7005	Belt Guard - 12" and 15"
27	S-9065	<b>Belt Guard Bolt</b> - Flange Bolt 3/8"-16 x 1" Zinc Grade 5
28	GK1325	7" Discharge Flight

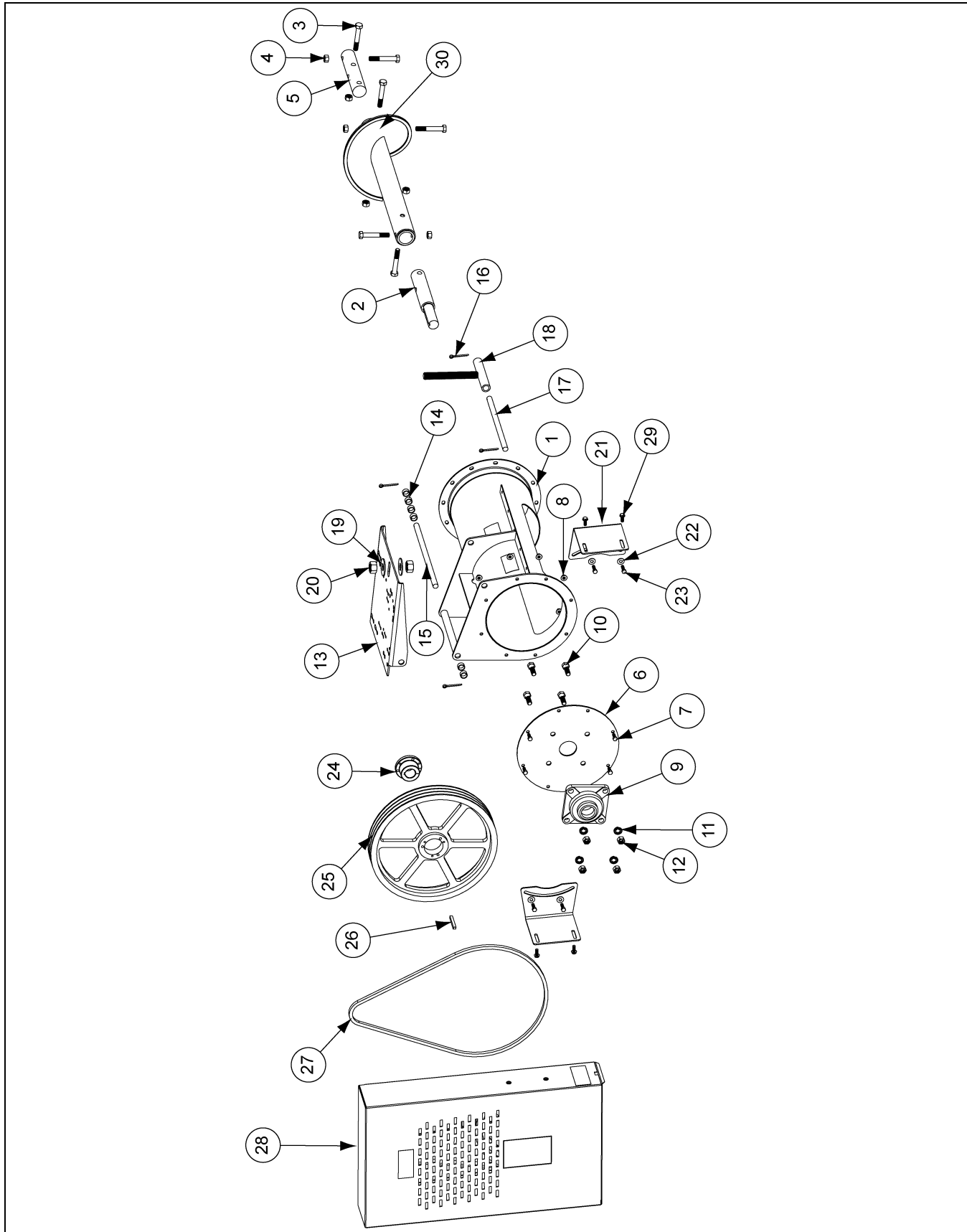
10" Farm and Commercial Duty Horizontal Drive Unit Parts



## 10" Farm and Commercial Duty Horizontal Drive Unit Parts List

Ref #	Part #	Description
1	GK6998	10" Discharge Tube
2	GK1339	Connecting Shaft - 1-1/2" O.D. x 9-1/2"
3	S-8314	<b>Flight Attachment Bolt</b> - Bolt, HHCS 1/2"-13 x 3-1/2" YDP Grade 8
4	S-8315	<b>Flight Attachment Nut</b> - Stover Nut 1/2"-13 Zinc Grade C
5	GK1289	Drive Shaft - 1-1/2" O.D. x 12-1/2"
6	GK7017-BS	Bearing Plate - Bin Silver
7	GK1343	Bearing, 1-1/2" Bore, 4 Hole Flange with Locking Collar
8	S-8760	<b>Bearing Bolt</b> - Bolt, HHCS 1/2"-13 x 1-1/2" Zinc Grade 5
9	S-236	<b>Bearing Lock Washer</b> - Split Lock Washer 1/2" Zinc
10	S-3729	<b>Bearing Nut</b> - Hex Nut 1/2"-13 YDP Grade 5
11	S-7469	<b>Bearing Plate Bolt</b> - Bolt, HHCS 3/8"-16 x 1" Zinc Grade 5
12	S-968	Flange Nut 3/8"-16 ZN Grade 5 Wide Flange
13	GK7014	Pivot Spacer Tube
14	GK6986-Y	Motor Mount Plate
15	GK7013	Motor Mount Pivot Rod
16	S-6994	Cotter Pin 3/16" x 2" Zinc Grade 2
17	GK7012	Motor Mount Adjuster Pivot Rod
18	GK6942	Motor Mount Adjuster
19	S-7835	<b>Motor Mount Adjuster Washer</b> - Flat Washer 1" O.D. x 2" O.D. Zinc
20	S-240	<b>Motor Mount Adjuster Nut</b> - Hex Nut 1"-8 Zinc Grade 5
21	GK7018	Belt Guard Mounting Bracket
22	S-248	<b>Belt Guard Mounting Bracket Washer</b> - Flat Washer 3/8", 7/16" I.D. x 1" O.D. YDP
23	S-2071	<b>Belt Guard Mounting Bracket Bolt</b> - Bolt, HHCS 3/8"-16 x 1-1/4" Zinc Grade 5
24	S-9181	Square Key 3/8" x 3"
25	GK1345	Sheave, 15" O.D., 1.5" I.D., 2 Groove
25	GK1304	Sheave, 15" O.D., 1.5" I.D., 3 Groove
25	GK3541 + D03-0264	Sheave, 15" O.D. SF Bushing I.D. 4 Groove + SF Bushing, 1.5" I.D.
26	GK1346	V-Belt B57
26	MHC00028	V-Belt BX60
27	GK7005	Belt Guard - 12" and 15"
28	S-9065	<b>Belt Guard Bolt</b> - Flange Bolt 3/18"-16 x 1" Zinc Grade 5
29	GK1991	9" Discharge Flight

12" Commercial Duty Horizontal Drive Unit Parts



## 12" Commercial Duty Horizontal Drive Unit Parts List

Ref #	Part #	Description
1	GK6999	12" Discharge Tube
2	GK2006	Drive Shaft - 2" O.D. x 13"
3	S-7893	<b>Flight Attachment Bolt</b> - Bolt, HHCS 5/8"-11 x 4" YDP Grade 8
4	S-8606	<b>Flight Attachment Nut</b> - Stover Nut 5/8"-11 Zinc Grade C
5	GK2319	Connecting Shaft - 2" O.D. x 9-1/2"
6	GK7064-BS	Bearing Plate - Bin Silver
7	S-7469	<b>Bearing Plate Bolt</b> - Bolt, HHCS 3/8"-16 x 1" Zinc Grade 5
8	S-968	Flange Nut 3/8"-16 ZN Grade 5 Wide Flange
9	GK2004	Bearing, 2" Bore, 4 Hole Flange with Locking Collar
10	S-8399	<b>Bearing Bolt</b> - Bolt, HHTB 5/8"-11 x 2" Zinc Grade 5
11	S-3208	<b>Bearing Lock Washer</b> - Split Lock Washer 5/8" Zinc
12	S-4110	<b>Bearing Nut</b> - Hex Nut 5/8"-11 Zinc Grade 5
13	GK6986-Y	Motor Mount Plate
14	GK7014	Pivot Spacer Tube
15	GK7013	Motor Mount Pivot Rod
16	S-6994	Cotter Pin 3/16" x 2" Zinc Grade 2
17	GK7012	Motor Mount Adjuster Pivot Rod
18	GK6942	Motor Mount Adjuster
19	S-7835	<b>Motor Mount Adjuster Washer</b> - Flat Washer 1" O.D. x 2" O.D. Zinc
20	S-240	<b>Motor Mount Adjuster Nut</b> - Hex Nut 1"-8 Zinc Grade 5
21	GK7065	Belt Guard Mounting Bracket
22	S-248	<b>Belt Guard Mounting Bracket Washer</b> - Flat Washer 3/8", 7/16" I.D. x 1" O.D. YDP
23	S-2071	<b>Belt Guard Mounting Bracket Bolt</b> - Bolt, HHCS 3/8"-16 x 1-1/4" Zinc Grade 5
24	GK4248	SK Bushing, 1-1/2" Bore
24	NRD-00027	TL Bushing 2517, 1-1/2" Bore
25	GK2567	Sheave, 18.4" O.D., SK Bushing, 2 Groove
25	GK2570	Sheave, 18.4" O.D., SK Bushing, 3 Groove
25	MHC00809	Sheave, 18.4" O.D., TL Bushing 2517, 4 Groove
26	S-9181	Square Key 3/8" x 3"
27	MHC00486	V-Belt BX70
28	GK7068	Belt Guard - 18.4"
29	S-9065	<b>Belt Guard Bolt</b> - Flange Bolt 3/8"-16 x 1" Zinc Grade 5
30	GK7265	11" Discharge Flight

# NOTES

## GSI Group, LLC Limited Warranty

The GSI Group, LLC ("GSI") warrants products which it manufactures to be free of defects in materials and workmanship under normal usage and conditions for a period of 12 months after sale to the original end-user or if a foreign sale, 14 months from arrival at port of discharge, whichever is earlier. The end-user's sole remedy (and GSI's only obligation) is to repair or replace, at GSI's option and expense, products that in GSI's judgment, contain a material defect in materials or workmanship. Expenses incurred by or on behalf of the end-user without prior written authorization from the GSI Warranty Group shall be the sole responsibility of the end-user.

### Warranty Extensions:

The Limited Warranty period is extended for the following products:

	Product	Warranty Period	
<b>AP Fans and Flooring</b>	Performer Series Direct Drive Fan Motor	3 Years	* Warranty prorated from list price: 0 to 3 years - no cost to end-user 3 to 5 years - end-user pays 25% 5 to 7 years - end-user pays 50% 7 to 10 years - end-user pays 75%
	All Fiberglass Housings	Lifetime	
	All Fiberglass Propellers	Lifetime	
<b>AP and Cumberland</b>	Flex-Flo/Pan Feeding System Motors	2 Years	
<b>Cumberland Feeding/Watering Systems</b>	Feeder System Pan Assemblies	5 Years **	** Warranty prorated from list price: 0 to 3 years - no cost to end-user 3 to 5 years - end-user pays 50%
	Feed Tubes (1-3/4" and 2.00")	10 Years *	
	Centerless Augers	10 Years *	
	Watering Nipples	10 Years *	
<b>Grain Systems</b>	Grain Bin Structural Design	5 Years	
<b>Grain Systems Farm Fans Zimmerman</b>	Portable and Tower Dryers	2 Years	† Motors, burner components and moving parts not included. Portable dryer screens included. Tower dryer screens not included.
	Portable and Tower Dryer Frames and Internal Infrastructure †	5 Years	

GSI further warrants that the portable and tower dryer frame and basket, excluding all auger and auger drive components, shall be free from defects in materials for a period of time beginning on the twelfth (12<sup>th</sup>) month from the date of purchase and continuing until the sixtieth (60<sup>th</sup>) month from the date of purchase (extended warranty period). During the extended warranty period, GSI will replace the frame or basket components that prove to be defective under normal conditions of use without charge, excluding the labor, transportation, and/or shipping costs incurred in the performance of this extended warranty.

### Conditions and Limitations:

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION SET FORTH ABOVE. SPECIFICALLY, 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. The sole and exclusive remedy is set forth in the Limited Warranty, which shall not exceed the amount paid for the product purchased. This warranty is not transferable and applies only to the original end-user. GSI shall have no obligation or responsibility for any representations or warranties made by or on behalf of any dealer, agent or distributor.

GSI assumes no responsibility for claims resulting from construction 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 void the Limited Warranty.

This Limited Warranty shall not extend to products or parts which have been damaged by negligent use, misuse, alteration, accident or which have been improperly/inadequately maintained. This Limited Warranty extends solely to products manufactured by GSI.

Prior to installation, the end-user has the responsibility to comply with federal, state and local codes which apply to the location and installation of products manufactured or sold by GSI.

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.



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