

Direct Gear Drive Bin Sweep Auger (with Roller Wells)

Assembly and Operation Manual



PNEG-1421 Version: 4.0

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This manual is valid for the sweep catalog numbers in the table below:

Bin Diameter	6" DGD Sweep	8" DGD Sweep	10" DGD Sweep
15'	GPS61503	GPS81503	-
18'	GPS61803	GPS81803	-
21'	GPS62103	GPS82103	-
24'	GPS62403	GPS82403	GPS10242
27'	GPS62703	GPS82703	GPS10272
30'	GPS63003	GPS83003	GPS10302
33'	GPS63303	GPS83303	GPS10332
36'	GPS63603	GPS83603	GPS10362
39'	-	GPS83903	GPS10392
42'	-	GPS84203	GPS10422
48'	-	GPS84803	GPS10482

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

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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. The customer should report and note any damage or shortage on the bill of lading to justify their claim to the transport company.

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

This warranty provides you the assurance that the company will back its products when defects appear within the warranty period. In some circumstances, the company also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused or modified to change its performance beyond the factory specifications, the warranty will become void and field improvements may be denied.

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. Read and save these instructions.

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-0001-4

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.



Safety Cautions



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-0003-1

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.

Operate Motor Properly

- All electrical connections must be made in accordance with applicable local codes (National Electrical Code for the US, Canadian Electric Code, or EN60204 along with applicable European Directives for Europe). Make 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.

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.

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 can crush personnel and cause serious injury or death.

PNEG-1421 Direct Gear Drive Bin Sweep Auger (with Roller Wells)



ST-0047-1



ST-0009-3

ST-0037-1



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-0008-2

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.



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.

Date	Employee Name	Supervisor Name

3. Safety Decals

Check components shown below to ensure 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.



Decal Parts List

Check components shown below to ensure 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.





Power Sweep in Bins with Concrete Floors

NOTE: The company does not recommend setting the direct gear drive bin sweep auger unit in concrete. If installing a unit flush with a concrete floor, we recommend that the unit be installed in a preformed trench. Use Figure 4A below.



Figure 4A Concrete Trench Layout for 6", 8" and 10" Power Sweeps

Power Sweeps in Bins with Raised Metal Floors

For bins with raised metal floors, it is necessary to cut openings in the floor for the center well and intermediate wells. Make sure the metal floor is high enough above the concrete base so there is space for the wells. It would be convenient to complete assembly of the bin floor as the power sweep is being installed for better access to components under the floor.

 Locate the center of the bin and make a cut-out in the bin floor for the center well. See Figure 4B for cut-out size and location of 6" and 8" wells. See Figure 4C for 10" wells. Locate the vertical shaft between the gearboxes in the center of the bin. Place suitable supports under the center well to hold it in position.



Figure 4B 6" and 8" (15.24 cm 20.32 cm) Center and Intermediate Well(s) Bin Floor Cut-outs



Figure 4C 10" (25.40 cm) Center and Intermediate Well(s) Bin Floor Cut-outs

Intermediate Well Installation

1. Cut openings in the bin floor for the intermediate wells. See Figure 4B and Figure 4C on Page 15. The number of wells depends on bin size. The distances between intermediate wells and the center well should be equal. See Figure 4D and Chart below.

Bin Size	# of Intermediate Wells	Distance from Center of Bin to Wall (A)	Distance Between Center Well and First Intermediate Well (B)	Distance Between Wells (C)	Distance from Center of Bin to Angle Ring (D)
15'	1	7' - 5-1/2"	39-3/8"	*	9'-5"
18'	1	8' - 11-7/16"	36-3/4"	*	11'-5"
21'	2	10' - 5-5/16"	32-1/2"	49-3/4"	12'-5"
24'	2	11' - 11-1/4"	38-1/2"	55-3/4"	13'-11"
27'	2	13' - 5-3/16"	44-1/2"	61-3/4"	15'-5"
30'	2	14'-11"	50-1/2"	67-3/4"	16'-11"
33'	3	16' - 4-15/16"	39.563"	56.813"	18'-1"
36'	3	17' - 10-7/8"	42.563"	59.813"	19'-11"
39'	3	19' - 4-3/4"	47.063"	64.313"	21'-5"
42'	4	20' - 10-11/16"	39"	56-1/4"	23'-5"
48'	4	23' - 10-1/2"	46.2"	63.45"	26'-5"



Figure 4D

Unload Tube Installation

1. Cut an opening in the bin wall for the unloading tube to pass through. See Chart on Page 18 for hole information. Additional views of the holes can be found in Figure 4E, Figure 4F below and Figure 4G on Page 18.



Figure 4E 10" Tube



Figure 4F 8" Tube



Figure 4G 6" Tube

Tube Size	Hole Size and Location		
10"	13" Hole, approximately 6" below the bin floor, inline with the center well tube.		
8"	11" Hole, approximately 6-1/2" below the bin floor, inline with the center well tube.		
6"	9" Hole, approximately 7-1/2" below the floor, directly inline with the center well tube.		

2. From inside the bin, insert the angle ring end of the unload tube through the hole in the bin sidewall. **NOTE:** *Before installing tube, remove flight from inside of tube.*

3. Place the connecting band onto the end of the unload tube closest to the center well. (See Figure 4H.)



Figure 4H

4. Position the unload tube flush against the center well tube. (See Figure 41.)



Figure 4I

4. Installation



5. Slide the connecting band until it is equally positioned over both the unload tube and the center well tube. Position the connecting band so that it will not interfere with the control rods. (See Figure 4J.)

Figure 4J

6. Secure the connecting band with three (3) 5/16" x 1-1/2" bolts and serrated flange nuts, making sure the intermediate wells are aligned to the center wells.

Install Bin Flange

1. Attach the upper and lower bin flanges loosely to the auger tube using two (2) 5/16" x 1-1/2" bolts and serrated flange nuts. (See Figure 4K.)



Figure 4K

2. Next, install the clutch lock collar to the lower bin flange using two (2) 5/16" x 3/4" carriage bolts and serrated flange nuts. Install the bolt heads on the backside of the lower bin flange so they will be next to the bin wall when the flanges are attached to the bin. (See Figure 4L.)



Figure 4L

4. Installation

- 3. With the flange not yet attached to the bin wall, make sure that the bin wall opening is large enough for the clutch and well control rods to pass through the bin wall.
- 4. Slide the bin flanges flush up to the bin wall and tighten the bolts connecting the two (2) flanges.
- 5. Drill into the bin wall through the holes located on the four (4) corners of bin flanges. Fasten the bin flanges to the bin wall using four (4) 5/16" x 3/4" bin wall bolts and serrated flange nuts. (See Figure 4M.)



Figure 4M

6. Drill the remaining holes into the bin wall and attach the remaining 5/16" x 3/4" bin wall bolts and serrated flange nuts.

Center Well Slide Gate Assembly

- 1. Close the center slide gate completely.
- 2. Align control rod between holes in gate.
- 3. Attach control gate clamp to control rod by sliding 5/16" x 1-3/4" long roll pin through clamp and control pipe.
- 4. Fasten clamp to bottom side of control gate by using two (2) 5/16" x 3/4" long carriage bolts, flat washers and serrated flange nuts. (See Figure 4N.)

NOTE: 6" and 8" Rods attach on the TOP side of the center well gate.



Control Lever Installation (6" Systems)

- 1. Close all slide control gates and keep them closed.
- 2. Attach the control lever by sliding the safety snap-on pin through the lever and both control rods. Close the center well and intermediate well gates using the control lever and the various slots.
- 3. Place the safety snap-on pin through the center well control rod and the control lever as shown in *Figure 40*.



Figure 40 6" Systems

Rack and Pinion Installation (8" and 10" Systems)

- 1. Make sure all gates are fully closed.
- 2. Slip rack and pinion tube over center gate control rod and align holes, making sure rack and pinion is fully extended toward bin wall. (See Figure 4P.)
- 3. With rack and pinion resting on unload tube and tube holes aligned, insert one 5/16" x 1-3/4" bolt through the rack and pinion tube and center gate control rod. Fasten together with a nut. (See Figure 4P.)



Figure 4P 8" and 10" Systems

4. Installation

4. Slide wrench over shaft on rack and pinion, making sure the collar faces the gears. Fasten down with 3/8" flat washer and 3/8" x 3/4" hex bolt. (See Figure 4Q.)



Figure 4Q 8" and 10" Systems

- 5. With rack and pinion fully extended, attach lower half band and secure to unload tube with six (6) 5/16" x 1-1/2" bolts, washers and serrated flange nuts. (See Figure 4R.)
- 6. To open all gates, with center gate closed, place second 5/16" x 1-3/4" bolt through center gate control rod and intermediate gate control rod and secure with nut.



Figure 4R 8" and 10" Systems

Clutch Control Installation

1. Slide the clutch control pipe through the bin flange and the support brackets on the intermediate and center wells. Slide the clutch control pipe into clutch collar on the center well. (See Figure 4S and Figure 4T.)









4. Installation

2. Bolt the clutch control pipe to the collar on the center well using a 5/16" x 1-3/4" long bolt and lock nut. (See Figure 4U.)





- 3. Attach the control rod clamp to the clutch rod by sliding 5/16" x 1-3/4" long roll pin through the clamp and control rod.
- 4. Fasten the clutch handle to the clamp using two (2) 5/16" x 3/4" carriage bolts, flat washers and serrated flange nuts. The short end of the clutch handle should be closest to the bin pad, so as not to interfere with it. Install the nuts so that they secure the roll pin in place. (See Figure 4V.)



Figure 4V

NOTE: <u>Clutch control pipe</u> is shipped INSIDE unload flight.

5. Check operation of clutch by pulling the handle to engage the clutch and then pushing the handle to disengage it. The control pipe should slide freely. Lock the control pipe into the disengaged position by tightening the bolt on the lock collar that is attached to the bin flange. (See Page 27.)

Installing the Unload Tube Flight

- 1. Begin by removing the tube end cap if you have not already done so.
- 2. Insert the flight into the tube with the square bushing end facing the center well and the round bushing end facing the discharge end of the tube. (See Figure 4W.)



Figure 4W

3. When the flight is approaching the center well shaft, it will be necessary to rotate flighting counterclockwise in order to get it to seat properly on the squared clutch shaft. When the flight is properly seated, the flight should be entirely inside the unload tube. It may be necessary to pull the flight out, a small amount and attempt this step multiple times in order to seat the flight properly. (See Figure 4X.)



Figure 4X

4. On the initial stage, install with an empty bin, the installer might want to open the center well and enter the bin to check and see that the flight is seated. Once they have seen that it has seated, they will know the proper position of the flight on the discharge end when it has seated properly. (See Figure 4X.)

Install the Sweep Flighting

- 1. Assemble the U-joint.
 - a. Insert the stub into the U-joint.
 - b. Secure the U-joint using a 5/16" x 2" roll pin. Drive the pin in with a hammer. (See Figure 4Y.)



Figure 4Y

- 2. Attach the U-joint.
 - a. Slide the U-joint onto the top gearbox output shaft.
 - b. Secure the U-joint using a 5/16" x 2" roll pin. (See Figure 4Z.)



Figure 4Z

3. Attach the pivot bracket to the left side of the gearbox using four (4) 3/8" x 3/4" flange bolts. (See Figure 4AA.)



Figure 4AA

4. Attach a flighting section to the U-joint stub located on the gearbox. Making sure that the Dura-Edge® side of the flight faces the center of the bin. Secure it with bolts (See Note for Bolt Size) and stover nuts. (See Figure 4AB.)



NOTE: 6" Two (2) 7/16" x 3" bolts 8" Two (2) 1/2" x 3" bolts 10" Two (2) 1/2" x 3" bolts



4. Installation

Use the *Chart below* to determine the number of flighting and shield sections needed for the length of sweep to be used.

Bin Size	# of Flighting and Shields Required	Standard Lengths	# of Flighting and Shields Required	Double Frame Door Lengths
15'	1	5'-6"		
18'	1	7'-0"		
21'	1	8'-6"		
24'	1	4'-4"		
24	1	5'-6"		
27'	1	5'-6"		
27	1	5'-10"		
20'	1	5'-6"	1	5'-6"
30	1	7'-4"	1	6'-10"
33'	1	5'-10"	1	5'-6"
	1	8'-6"	1	8' - 3-1/2"
36'	1	7'-4"	1	7'-0"
	1	8'-6"	1	8' - 3-1/2"
39'	1	8'-6"	1	8'-6"
	1	8'-10"	1	8' - 3-1/2"
42'	1	4'-4"	2	5'-6"
	1	7'-0"	1	71.01
	1	7'-4"	1	7'-4"
48'	1	7'-0"	1	5'-6"
	2	7'-4"	1	7'-0"
			1	8'-6"

5. Insert the connecting stub into the flighting. Secure it with bolts (See Note for Bolt Size on Page 31) and stover nuts. (See Figure 4AC.)





6. Place the hanger bearing bracket onto the connecting stub. (See Figure 4AD.)



Figure 4AD

- 7. Install the next section of flighting onto the connecting stub. Secure the flighting with bolts (See Note for Bolt Size on Page 31) and stover nuts. (See Figure 4AE.)
- 8. Keep repeating Step 5 on Page 32-Step 7 for additional sections of flighting.



Figure 4AE

Install the Flighting Shield

- 1. Install the first shield to the shield mounting bracket. Secure using two (2) 3/8" x 1-1/4" bolts, flat washers and lock nuts. (See Figure 4AF.)
- 2. Fasten the shield bracket to the pivot bracket on the gearbox using one 1/2" x 1/2" shoulder bolt and lock nut. (See Figure 4AF.)



Figure 4AF

3. Install the first and second flighting shield (when applicable) to the hanger bracket using two (2) 3/8" x 3" carriage bolts, flat washers and lock nuts. (See Figure 4AG.)







4. Install shield splice brackets to back side of flighting shields using four (4) 5/16" x 3/4" bolts, flat washers and serrated flange nuts. (See Figure 4AH.)

Figure 4AH

5. Keep repeating Step 3 on Page 34-Step 4 for additional sections of flighting shields.

Sweep Wheel Installation

- 1. Insert the input shaft of the reduction drive into the open end of the flight. Attach the drive to the flight with one 7/16" x 3" grade 8 bolt and stover nut for 6" or one 1/2" x 3" grade 8 bolt and stover nut for 8" and 10". (See Figure 4AI.)
- 2. Mount the reducer to the back shield with two (2) 3/8" x 1-1/4" serrated flange bolts, one flat washer and nylock nut.
- 3. Attach the wheel hub welded assembly to the reduction drive with one 3/8" x 2-1/2" grade 8 bolt and stover nut.
- 4. Attach the rubber discs and outer wheel disc to the wheel hub welded assembly with four (4) 5/16" x 2" grade 2 bolts and nylock nuts. *(See Figure 4AI.)*



Figure 4AI
Power Recommendations

- 1. The horsepower recommendations are for augering reasonably dry grain. High moisture grain above (15%) will require greater power if maximum capacity is to be maintained. The maximum possible capacity will be less with high moisture grain that with dry grain. Use and electric motor of the correct size that operates at 1750 RPM. DO NOT use a motor size that is greater than what is shown for the largest bin size in the column.
- 2. 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 start-up easier and will convey more efficiently.
 - **NOTE:** The auger capacity can fluctuate greatly under varying conditions. Moisture content, different commodities, amount of foreign matter and speeds all play a part in the performance of the auger. Twenty-five percent (25%) moisture may cut capacity by as much as forty percent (40%) under some conditions.

Bin	Horizontal Head		25° Head			Vertical Head			
Diameter	6"	8"	10"	6"	8"	10"	6"	8"	10"
15'	3	3	-	3	5	-	5	5	-
18'	3	3	-	3	5	-	5	5	-
21'	3	5	-	5	5	-	5	7-1/2	-
24'	3	5	7-1/2	5	5	10	5	7-1/2	10
27'	5	5	7-1/2	5	5	10	5	7-1/2	10
30'	5	5	7-1/2	5	7-1/2	10	7-1/2	7-1/2	15
33'	5	5	7-1/2	5	7-1/2	10	7-1/2	7-1/2	15
36'	5	7-1/2	10	5	7-1/2	10	7-1/2	7-1/2	15
39'	-	7-1/2	10	-	10	15	-	-	-
42'	-	7-1/2	10	-	10	15	-	-	-
48'	-	7-1/2	10	-	10	15	-	-	-

Horsepower Chart



- 1. Electric motors and controls must be installed by a qualified electrician and must meet the standards set by the National Electrical Code and all local and state codes.
- 2. A main power disconnect switch capable of being locked only in the OFF position shall be provided. This shall be locked whenever work is being done on the auger.
- 3. A magnetic starter should be used to protect the motor when starting and stopping. It should stop the motor in case of power interruption, conductor fault, low voltage, circuit interruption or motor overload. Then the motor must be restarted manually. Some motors have built-in thermal overload protection. If this type motor is used, use only those with a manual reset.
- 4. The motor starting controls must be located outside the bin. Locate the motor starting controls outside the bin but near the bin door so the operator has full view of the operation inside the bin.
- 5. Disconnect power before resetting motor overloads.
- 6. Reset and motor starting controls must be located so that the operator has full view of the entire operation.
- 7. Make certain electric motors are grounded.
- 8. Shut OFF power to adjust, service or clean.

Before Filling the Bin

- 1. Read the instructional decal located on the upper bin flange to learn how to control the direct gear drive power sweep well gates.
- 2. Push the center well and the intermediate well control rods towards the bin to close well gates.
- 3. With the power shut OFF and locked out, enter the bin and position the sweep auger along side of the intermediate wells.
- 4. Open the center well cover plate and set it aside. While observing the clutch components in the center well, pull the clutch control pipe from the outside of the bin, until the two (2) clutch jaws are fully engaged. Make a distinguishing mark on the clutch control rod, outside the bin, to designate the fully engaged position.
- 5. Next, push the clutch control pipe toward the bin to disengage the two (2) clutch jaws. Verify that the clutch is fully disengaged in the center well. Make a distinguishing mark on the clutch control rod, outside the bin, to designate the fully disengaged position.
- 6. Tighten the clutch control pipe position lock out bolt.
- 7. Reinstall the center well cover plate.



DO NOT enter the grain bin unless all power driven equipment has been shut down and locked out. Never enter the grain bin unless monitored by another person.

DO NOT enter the bin if the grain has bridged or has flowed abnormally out of the bin as *Figure 5A* and *Figure 5B*. Suffocation can occur if grain suddenly breaks loose, burying persons who are inside the bin.



Figure 5A

Abnormal grain flow can easily fall and bury a person, suffocating them. DO NOT enter a bin with abnormal grain flow.



Figure 5B

Bridged grain can easily break loose and bury a person, suffocating them. DO NOT enter a bin with bridged grain.

Perform Pre-Start Checks



Failure to perform any or all of these pre-start checks may cause damage to the equipment and/or cause SERIOUS INJURY or DEATH to those in the work area. **CAUTION** Failure to perform any or all of these pre-start checks may also be a misuse of the equipment. Any misuse of the equipment may void the warranty.

- 1. Make sure ALL belts are tensioned properly.
- 2. Make sure ALL shields are in place and that the belt(s) and pulley(s) are able to move freely.

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

- 3. Inspect the drive unit for any problems or potential problems.
- 4. Be aware of any emergency shut down procedures. Two (2) people must always be in a position where the operation of the equipment can be monitored.
- 5. Before starting the auger for the first time, make sure that all parts are assembled correctly according to the instructions in this manual.



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

Operation



DO NOT start/stop the auger while it is under load, this may cause the auger to "jam".



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



Be aware of any unusual vibration or noises during the initial start-up and "break-in" period. If anything unusual is detected, immediately shut down the **CAUTION** auger and disconnect and lock out the power supply before servicing. Visually inspect the auger periodically during operation.

- A. Operation for 6" systems
 - 1. Start the unloading auger. The motor is located on the power head outside the bin on the unload tube. To figure out the horsepower needed for the equipment, use the horsepower chart on Page 37.
 - 2. The safety snap pin should be inserted through the center well control rod and the control lever. Make sure it has NOT been inserted through the intermediate well control rod. (See Figure 5C on Page 41.)
 - 3. Place control lever in the second slot and pull lever to open gradually until the desired flow is established. (See Figure 5C on Page 41.) It should not be necessary to open the gate more than 3" to 6".
 - 4. Always close well gates and allow the unloader to clean out before stopping the unloader. Do not open the gate more than 3"-6" as the flow of grain into the center well will be at a higher rate than what the unload system can remove. This will cause the auger to plug or jam.

5. Operation



Figure 5C

5. Operation

5. When grain flow stops from the center well, close the center well gate. Insert the safety snap pin through the control lever and both the intermediate and center well control rods as *Figure 5E*. The remaining grain should look similar to *Figure 5D*.







Figure 5E

6. Gradually open gates using the middle pivot slot until the desired flow of grain is reached. You should not open the gates more than 2" to 4". If gates need to be opened further, use the last slot for more leverage. (See Figure 5C on Page 41.) The remaining grain should look similar to Figure 5F.





- B. For 8" and 10" systems
 - 1. Start the unloading auger. The motor is located on the power head outside the bin on the unload tube. To find the horsepower needed for the equipment, use the horsepower chart *on Page* 37.
 - 2. Make sure the center well bolt is inserted through the rack and pinion tube and center well control rod. Make sure the intermediate well control rod is not attached to the center well control rod. (See Figure 5G.)





- Using the wrench on rack and pinion, open center gate until desired flow is established. It should not be necessary to open gate more than 3" to 6". Do not open the gate more than 3" to 6" as the flow of grain into the center well will be at a higher rate than what the unload system can remove. This will cause auger to plug or jam.
- 4. Always close the well gates and allow the unloader to clean out before stopping the unloader.
- 5. When grain flow stops from the center well, close the center well gate. Insert the intermediate well bolt through the intermediate well control rod and the center well control rod. Remaining grain should look like *Figure 5D on Page 42*.
- 6. Gradually open the gates until the desired flow of grain is reached. You should not open the gate more than 2" to 4". The remaining grain should look like *Figure 5F on Page 42*.

Engaging the Clutch for Bin Sweep

- 1. All power should be OFF and locked out before starting.
- Loosen the clutch control pipe position lock bolt. Pull on the clutch handle away from the bin to engage the clutch. Verify that the clutch is fully engaged, observing the distinguishing mark on the control rod, as done in *Step 5* in before filling the bin *on Page 38*.
- 3. Once the clutch has been engaged, tighten the clutch control pipe position lock bolt to hold the clutch control rod in the engaged position.



The center well gate must be FULLY open during the bin sweep operation.

4. Restore power and start the power sweep motor. The sweep auger will start along with the unload auger. The sweep auger will remain on the floor and clear most of the grain in one pass. A second pass will clean out additional grain, before final clean out.





Final Clean Out

The following procedure is recommended for cleaning the floor of the bin after the sweep auger has removed as much grain as possible.



DO NOT enter a grain bin unless all power driven equipment has been shut down and locked out.

- 1. Clean (scoop and sweep by hand) the outer area of the floor into a circular pile towards the center of the bin. (See Figure 51.)
- 2. Get out of the bin.
- 3. After making sure everyone is outside the bin and clear of the equipment, start the under floor unloader and the sweep auger. In a short time, the circular pile towards the center of the bin will have been removed.
- 4. Stop the equipment and lock out.
- 5. Scoop and sweep by hand the remaining floor area to the center of the bin.
- 6. Get out of the bin.
- 7. Repeat Steps 3-6 until all grain has been removed from the bin.



Figure 5I Top View of Bin



Keep out of bin while sweep is in operation. Rapidly traveling sweep auger. The sweep auger will move rapidly around the bin when the bin is nearly empty.



Stay clear of the under floor unloader at the bin wells. The under floor unloader is exposed at these locations in the bin floor.

Normal Shut Down

- 1. Before shutting down the unit, be sure the hoppers and augers are empty.
- 2. Disconnect and lock out the power source before leaving the work area.

Emergency Shut Down

- 1. Know how to shut down the auger in case of an emergency.
- 2. Do not restart the auger while it is under load.



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

- 3. Close the bin well control gates.
- 4. Reconnect and unlock the power source.
- 5. Clear the auger gradually, until there is no grain and there are no obstructions.

Storage Preparation

- 1. Close all wells to the discharge auger.
- 2. Position the direct gear drive sweep directly over the intermediate wells.

NOTE: Make sure that the clutch control rods are disengaged.

- 3. Be sure the unload tube is empty.
- 4. Shut down the auger.
- 5. Make sure all fasteners are tight.



DO NOT enter the grain bin unless all power driven equipment has been shut down.

Maintaining the Auger



Properly maintaining this equipment will help to ensure it continues to work properly. Failure to properly maintain this equipment may result in damage to the **DANGER** equipment or may cause SERIOUS INJURY or DEATH to the operator.

> Failure to properly maintain this equipment may also be a misuse of the equipment. Any misuse of the equipment may void the warranty.

- 1. The U-joint must be lubricated with SAE multipurpose grease every 10 operational hours or after each use.
- 2. The upper and lower gearboxes in the center well should be half-full with oil. They must be checked and possibly filled with SAE 80W90 gear oil every 10 operational hours. Each gearbox should be filled up to the fill plug, approximately making them half-full overall. It is recommended to replace the oil in the gearboxes every season.
- 3. Use caution when repairing or replacing equipment parts.
- 4. Make sure ALL decals are legible and tightly attached to the auger. If necessary, replace them FREE OF CHARGE by contacting the dealer, warehouse or the manufacturer.
- 5. Mount controls for any electric motors at a safe distance from the machine and in a location accessible in case of an emergency.
- 6. Make sure ALL electrical wiring is not damaged and that it meets proper wiring codes.
- 7. Make sure ALL components are in good working condition before use.

8. Troubleshooting

Problem	Possible Cause	Solution	
	The drive belt may be too tight, binding the head stub and flight. Damage can	Adjust the drive belt to the proper tightness.	
The auger is vibrating.	occur to the auger flighting, causing noise. Damage usually is caused from foreign material being run through the auger.	It may be necessary to remove the flighting for inspection.	
Capacity is too low.	There may not be enough grain reaching the auger.	Make sure the intake has not bridged over, restricting flow. The flighting at the intake should be covered with grain for maximum capacity.	
	The auger is moving too slowly.	Check the auger speed. Low capacity will result from speeds slower than recommended.	
	The auger may be "jamming" because too much grain is reaching the auger.	Decrease the amount of grain the auger is gathering.	
	The motor may be too small or wired improperly.	If the motor is a newer light weight aluminum type, the next larger size may be desirable.	
The auger plugs.	The grain may be wet.	If wet grain or other hard-to-move material is being augered, use a larger size motor than recommended for normal use.	
	The auger may be jammed with foreign material.	Remove any foreign material in the auger.	
	The discharge end may be plugged.	Unplug any plugs at the discharge end of the auger.	
	Too much drag.	Check the clearance between the shield and the bin floor. Make sure there is room for the auger to move. Adjusting the shield may be necessary.	
The sweep flight and shield are no longer moving.	Worn sweep wheel.	The sweep wheel wears down over time. Replace the wheel.	
	Unconditioned grain.	Moisture and/or insects can cause the grain to harden or "Cake-up". Disconnect and lock out the power to the auger before going into the bin to correct this problem or to address any other problem.	

- 1. 6" Center Well Parts (See Pages 50-51.)
- 2. 8" Center Well Parts (See Pages 52-53.)
- 3. 10" Center Well Parts (See Pages 54-55.)
- 4. Shaft Assembly (See Pages 56.)
- 5. Center Connection Parts (See Pages 57.)
- 6. 6" Intermediate Well Parts (See Pages 58-59.)
- 7. 8" Intermediate Well Parts (See Pages 60-61.)
- 8. 10" Intermediate Well Parts (See Pages 62-63.)
- 9. 6" Bin Flange Parts (See Pages 64.)
- 10. 8" Bin Flange Parts (See Pages 65.)
- 11. 10" Bin Flange Parts (See Pages 66.)
- 12. 6" Well Gate Control Parts (See Pages 68.)
- 13. 8" and 10" Rack and Pinion (See Pages 70-71.)
- 14. Assembled Sweep Arm Components (See Pages 72-73.)
- 15. 6", 8" and 10" Flight and Shield Bundle (See Pages 74.)
- 16. Spacer Plates for Reduction Drive Wheel (See Pages 75.)
- 17. Reduction Wheel Drive Components (See Pages 76-77.)

6" Center Well Parts



6" Center Well Parts List

Ref #	Part #	Description	Qty
1	GK7231	6" Center Well with Rollers	1
2	S-2121	1/2" x 1-3/8" x 0.109" Flat Washer Type a Plated	14
3	GC03064	1-1/2" O.D. x 0.625W Nylatron Roller, Well	7
4	S-9422	Cotter Pin 1/2" Zinc (Pivot Point # RUE-22)	6
5	GK1689-RD	DS-6"-8" Center Well Offset Mounting Bracket (Red Powercoat)	1
6	S-9067	3/8"-16 x 3/4" Serrated Flange Bolt Zinc Grade 5	12
7	S-968	3/8"-16 Serrated Flange Nut Zinc Grade 5	6
8	GK80187	Gearbox, 6"-10" DS Standard, CW Rotation	1
9	GK1688-RD	Gearbox Mounting Bracket (Red Powercoat)	1
10	GK7089	6"-8" Clutch Stub Assembly SQR	1
11	GK7886	6"-8" Clutch Stub Support	1
12	S-9064	Flange Bolt 3/8"-16 x 1-1/2" Zinc Grade 5	2
13	S-7383	3/8"-16 Nylock Nut Zinc Grade 5	4
14	GK4410	Flange Bearing, 1" Bore, 2 Hole with Lock Collar 1.313" Peer Bearing #HCFTS205-16G	1
15	S-9066	3/8"-16 x 1-1/4" Serrated Flange Bolt Zinc Grade 5	2
16	GK1110	Sprocket, #50 22 Tooth 1" Bore w/ Keyway	1
17	S-9168	Square Key 1/4" x 1"	1
18	GK1705	Chain Roller #50 x 43P	1
19	D32-0015	Connecting Link #50 Roller Chain	1
20	S-7811	1/2"-13 x 2" HHCS Bolt, Zinc	1
21	GK80156	PS Center Well Pivot Bracket (Flat) - 2011 Present	1
22	S-8260	1/2"-13 Nylock Nut Zinc Grade 5	1
23	S-8399	Bolt, HHTB 5/8"-11 x 2" Zinc Grade 5	1
24	S-9259	5/8"-11 Flange Nut Zinc	1
25	GK1701	13 Tooth Idler Sprocket, 5/8" Bore, #50 w/ Bearing	1
26	S-6494	5/8"-11 Deformed Lock Nut Zinc Grade 5	1
27	S-7470	5/16"-18 x 1" Flange Bolt Zinc Grade 5	1
28	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2	7
29	S-7382	5/16"-18 Nylock Nut Zinc/Clear Grade 5	5
30	S-1937	5/16" Flat Washer Zinc SAE Grade 2	1
31	GK1704	Spring, Return x 5" x 0.063P Zinc	1
32	GK1693-RD	PS Clutch Pivot Bracket (Red Powercoat)	1
33	S-6606	Flange Bolt 5/16"-18 x 3/4" Zinc Grade 5	2
34	GK1698	Yoke, PS Clutch Replaces Hutch # 6828F	1
35	GK1697-RD	PS Clutch Yoke Bracket	2
36	S-7149	5/16"-18 x 1-3/4" HHTB Bolt Zinc Grade 5	4
37	GK1695-RD	PS Clutch Control Rod	1
38	GK1694-RD	PS Clutch Control Arm (Red Powercoat)	1
39	GK7229	Drive Cover Plate	1
40	GK7226	Slide Gate 6"/8"	1
41	S-8999	5/16"-18 x 1/2" HHCS Bolt Zinc Grade 5	2
42	S-858	5/8" Flat Washer USS Zinc Grade 2	1

8" Center Well Parts



8" Center Well Parts List

Ref #	Part #	Description	
1	GK7230	8" Center Well with Rollers Weld	1
2	S-2121	1/2" x 1-3/8" x 0.109" Flat Washer Type a Plated	
3	GC03064	1-1/2" O.D. x 0.625W Nylatron Roller Well	
4	S-9422	Cotter Pin 1/2" Zinc (Pivot Point # RUE-22)	6
5	GK1689-RD	DS 6"-8" Center Well Offset Mounting Bracket (Red Powdercoat)	1
6	S-9067	3/8"-16 x 3/4" Serrated Flange Bolt Zinc Grade 5	12
7	S-968	3/8"-16 Serrated Flange Nut Large Zinc Grade 5	6
8	GK80187	Gearbox, 6"-10" DS Standard, CW Rotation	1
9	GK1688-RD	Gearbox Mounting Bracket (Red Powdercoat)	1
10	GK7089	6"-8" Clutch Stub Assembly SQR	1
11	GK7886	6"-8" Clutch Stub Support	1
12	S-9064	Flange Bolt 3/8"-16 x 1-1/2" Zinc Grade 5	2
13	S-7383	3/8"-16 Nylock Nut Zinc Grade 5	4
14	GK4410	Flange Bearing, 1" Bore LC 1.313", 2 Hole With Lock Collar Peer Bearing #HCFTS205-16G	1
15	S-9066	3/8"-16 x 1-1/4" Serrated Flange Bolt Zinc Grade 5	2
16	GK1110	Sprocket, #50 22 Tooth 1" Bore w/ Keyway	1
17	S-9168	Square Key 1/4" x 1"	1
18	GK1705	Chain Roller #50 x 43P	1
19	D32-0015	Connecting Link #50 Roller Chain	1
20	S-7811	Bolt, HHCS 1/2"-13 x 2" Zinc	
21	GK80156	PS Center Well Pivot Bracket (Flat) - 2011 Present	
22	S-8260	1/2"-13 Nylock Nut Zinc Grade 5	
23	S-8399	Bolt, HHTB 5/8"-11 x 2" Zinc Grade 5	
24	S-9259	Flange Nut 5/8"-11 Zinc	
25	GK1701	13 Tooth Idler Sprocket, 5/8" Bore, #50 With Bearing, HRD Teeth	
26	S-6494	5/8"-11 Deformed Lock Nut Zinc Grade 5	
27	S-7470	5/16"-18 x 1" Flange Bolt Zinc Grade 5	1
28	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2	7
29	S-7382	5/16"-18 Nylock Nut Zinc/Clear Grade 5	5
30	S-1937	5/16" Flat Washer Zinc SAE Grade 2	1
31	GK1704	Spring, Return x 5" x 0.063P Zinc	1
32	GK1693-RD	PS Clutch Pivot Bracket (Red Powdercoat)	1
33	S-6606	Flange Bolt 5/16"-18 x 3/4" Zinc Grade 5	2
34	GK1698	Yoke, PS Clutch Replaces Hutch # 6828F	1
35	GK1697-RD	PS Clutch Yoke Bracket	2
36	S-7149	5/16"-18 x 1-3/4" HHTB Bolt Zinc Grade 5	4
37	GK1695-RD	PS Clutch Control Rod	1
38	GK1694-RD	PS Clutch Control Arm (Red Powdercoat)	1
39	GK7229	Drive Cover Plate	1
40	GK7226	DS 6"/8" Center Well Gate	1
41	S-8999	5/16"-18 x 1/2" HHCS Bolt Zinc Grade 5	2
42	S-858	5/8" Flat Washer USS Zinc Grade 2	

10" Center Well Parts



10" Center We	II Parts List
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Ref #	Part #	Description	Qty.
1	GK7227	10" P/S Center Well with Rollers Weld	1
2	S-2121	1/2" x 1-3/8" x 0.109" Flat Washer Type a Plated	14
3	GC03064	1-1/2" O.D. x 0.625W Nylatron Roller, Well	7
4	S-9422	Cotter Pin 1/2" Zinc (Pivot Point # RUE-22)	6
5	GK4429-RD	10" Low Profile, Plate Bracket Assembly (Red Powdercoat)	1
6	S-9067	3/8"-16 x 3/4" Serrated Flange Bolt Zinc Grade 5	12
7	S-968	3/8"-16 Serrated Flange Nut Large Zinc Grade 5	6
8	GK80187	Gearbox, 6"-10" DS Standard, CW Rotation	1
9	GK4430-RD	10" Low Profile, Rod Bracket Assembly (Red Powdercoat)	1
10	GK7090	10" Clutch Stub Assembly	1
11	GK7885	10" Clutch Stub Support	1
12	S-9064	3/8"-16 x 1-1/2" Flange Bolt Zinc Grade 5	2
13	S-7383	3/8"-16 Nylock Nut Zinc Grade 5	4
14	GK4410	Flange Bearing, 1" Bore, 2 Hole with Lock Collar 1.313" Peer Bearing #HCFTS205-16G	1
15	S-9066	3/8"-16 x 1-1/4" Serrated Flange Bolt Zinc Grade 5	2
16	GK1110	Sprocket, #50 22 Tooth 1" Bore with Keyway	1
17	S-9168	Square Key 1/4" x 1"	1
18	GK6830	Roller Chain #50 x 47P	1
19	D32-0015	Connecting Link #50 Roller Chain	1
20	S-7811	Bolt, HHCS 1/2"-13 x 2" Zinc	1
21	GK80156	PS Center Well Pivot Bracket (Flat) - 2011 Present	1
22	S-8260	1/2"-13 Nylock Nut Zinc Grade 5	1
23	S-8399	5/8"-11 x 2" HHTB Bolt, Zinc Grade 5	1
24	S-9259	5/8"-11 Flange Nut Zinc	1
25	GK1701	13 Tooth Idler Sprocket, 5/8" Bore, #50 with Bearing, HRD Teeth	1
26	S-6494	5/8"-11 Deformed Lock Nut Zinc Grade 5	1
27	S-7470	5/16"-18 x 1" Flange Bolt Zinc Grade 5	1
28	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2	7
29	S-7382	5/16"-18 Nylock Nut Zinc/Clear Grade 5	5
30	S-1937	5/16" Flat Washer Zinc SAE Grade 2	1
31	GK1704	Spring, Return x 5" x 0.063P Zinc	1
32	GK1693-RD	PS Clutch Pivot Bracket (Red Powdercoat)	1
33	S-6606	5/16"-18 x 3/4" Flange Bolt Zinc Grade 5	2
34	GK1698	Yoke, PS Clutch Replaces Hutch # 6828F	1
35	GK1697-RD	PS Clutch Yoke Bracket	2
36	S-7149	5/16"-18 x 1-3/4" HHTB Bolt Zinc Grade 5	4
37	GK1695-RD	PS Clutch Control Rod	1
38	GK1923-RD	DS 10" Clutch Control Arm (Red Powdercoat)	1
39	GK7228	DS 10" Center Well Cover	1
40	GK7224	DS 10" Center Well Gate	1
41	S-8999	5/16"-18 x 1/2" HHCS Bolt Zinc Grade 5	2
42	S-858	5/8" Flat Washer USS Zinc Grade 2	1

Shaft Assembly



Shaft Assembly Parts List

Ref #	Part #	Description	
1	GK6698	Center Well Square Shaft - 6" and 8"	
1	GK6699	Center Well Square Shaft - 10"	
2	GK4410	Flange Bearing, 1" Bore, 2 Hole with Lock Collar 1.313" Peer Bearing #HCFTS205-16G	
3	GK1699	13 Tooth Clutch Yoke Driver Jaw - 6" and 8"	
	GK6809	18 Tooth Clutch Yoke Driver Jaw - 10"	
4	S-8902	1" O.D. x 15/16" I.D. Groove Snap Ring	
5	S-8901	1/4" x 1/4" #21 Woodruff Key	
6	GK1696	Clutch Yoke Driven Sliding Jaw	

Center Connection Parts



Center Connection Parts List

Ref #	Part #	Description
	GK7129	Center Well Assembly - 6"
1	GK7130	Center Well Assembly - 8"
	GK7131	Center Well Assembly - 10"
	GK1624	Connecting Band - 6"
2	GK1677	Connecting Band - 8"
	GK1796	Connecting Band - 10"
3	S-2741	5/16"-18 x 1-1/2" HHCS Bolt Zinc Grade 5
4	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2
5	GK1726	1/2" Control Rod Clamp
6	S-8397	5/16" x 1-3/4" Spring Pin
7	S-6076	5/16"-18 x 3/4" Carriage Bolt Zinc Grade 2
8	S-1937	5/16" Flat Washer Zinc Grade 2
9	S-7149	5/16"-18 x 1-3/4" HHTB Bolt Zinc Grade 5
10	S-7382	5/16"-18 Nylock Nut ZN Grade 5
11	GK4460	Gearbox Pivot Bracket
12	S-9067	3/8"-16 x 3/4" Serrated Flange Bolt Zinc Grade 5
40	GK6175	Shield Mounting Bracket - 6" and 8"
15	GK4461	Shield Mounting Bracket - 10"
14	S-10110	1/2"-13 x 1/2" Shoulder Bolt
15	S-8260	1/2"-13 Nylock Nut Zinc Grade 5

6" Intermediate Well Parts



Ref #	Part #	Description
1	GC10126	6" Intermediate Well Weldment
2	GK1053	6" Half Band
3	GK6756	6" Intermediate Well Gate
4	GK6757	6" Intermediate Well Top Flange
5	GK6713	6" Control Rod Guide
6	GC00174	Control Gate Clamp with Dimple for 6" and 8"
7	GC03064	1-1/2" O.D. x 5/8" Nylatron Roller
8	S-2121	1/2" Flat Washer Plated, 9/16" I.D. x 1/10" x 1-3/8" O.D.
9	S-7241	1/8" x 1-1/4" Cotter Pin Zinc Grade 2
10	S-4275	5/16"-18 x 3/4" HHTB Bolt Zinc Grade 5
11	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2
12	S-1196	5/16"-18 x 1" HHCS Bolt Grade 5
13	S-8999	5/16"-18 x 1/2" HHCS Bolt Zinc Grade 5

6" Intermediate Well Parts List

Tube (14)

Part #	Description
GK6890	6" x 15' Bin 12" Well
GK6891	6" x 18' Bin 12" Well
GK6892	6" x 21' Bin 12" Well
GK6893	6" x 24' Bin 12" Well
GK6894	6" x 27' Bin 12" Well
GK6895	6" x 30' Bin 12" Well
GK6896	6" x 33' Bin 12" Well
GK6897	6" x 36' Bin 12" Well

Flight (15)			
Part #	Description		
GK7020	6" x 121-1/4" 15' Bin		
GK7021	6" x 145-1/4" 18' Bin		
GK7022	6" x 157-1/4" 21' Bin		
GK7023	6" x 175-1/4" 24' Bin		
GK7024	6" x 193-1/4" 27' Bin		
GK7025	6" x 211-1/4" 30' Bin		
GK7026	6" x 235-1/4" 33' Bin		
GK7027	6" x 247-1/4" 36' Bin		

8" Intermediate Well Parts



Ref #	Part #	Description
1	GC10129	8" Intermediate Well Weldment
2	GK1055	8" Half Band
3	GK6759	8" Intermediate Well Gate
4	GK6760	8" Intermediate Well Top Flange
5	GK6711	8" Control Rod Guide
6	GC00174	Control Gate Clamp with Dimple for 6" and 8"
7	GC03064	1-1/2" O.D. x 5/8" Nylatron Roller
8	S-2121	1/2" Flat Washer Plated, 9/16" I.D. x 1/10" x 1-3/8" O.D.
9	S-7241	1/8" x 1-1/4" Cotter Pin Zinc Grade 2
10	S-4275	5/16"-18 x 3/4" HHTB Bolt Zinc Grade 5
11	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2
12	S-1196	5/16"-18 x 1" HHCS Bolt Grade 5

8" Intermediate Well Parts List

Tube (14)

Part #	Description
GK6899	8" x 15' Bin 12" Well
GK6900	8" x 18' Bin 12" Well
GK6901	8" x 21' Bin 12" Well
GK6902	8" x 24' Bin 12" Well
GK6903	8" x 27' Bin 12" Well
GK6904	8" x 30' Bin 12" Well
GK6905	8" x 33' Bin 12" Well
GK6906	8" x 36' Bin 12" Well
GK6907	8" x 39' Bin 12" Well
GK6908	8" x 42' Bin 12" Well
GK6909	8" x 48' Bin 12" Well

Flight (15) Part # Description GK7028 8" x 121-1/4" 15' Bin GK7029 8" x 145-1/4" 18' Bin GK7030 8" x 157-1/4" 21' Bin GK7031 8" x 175-1/4" 24' Bin GK7032 8" x 193-1/4" 27' Bin GK7033 8" x 211-1/4" 30' Bin GK7034 8" x 235-1/4" 33' Bin GK7035 8" x 247-1/4" 36' Bin GK7036 8" x 265-1/4" 39' Bin GK7037 8" x 289-1/4" 42' Bin GK7038 8" x 325-1/2" 48' Bin





Ref #	Part #	Description
1	GC10131	Intermediate Well Weldment
2	GK1057	10" Half Band
3	GK6762	10" Intermediate Well Gate
4	GK6763	10" Intermediate Well Top Flange
5	GK6714	10" Control Rod Guide
6	GC09006	Control Pipe Clamp with Dimple
7	GC03064	1-1/2" O.D. x 5/8" Nylatron Roller
8	S-2121	1/2" Flat Washer Plated, 9/16" I.D. x 1/10" x 1-3/8" O.D.
9	S-7241	1/8" x 1-1/4" Cotter Pin Zinc Grade 2
10	S-4275	5/16"-18 x 3/4" HHTB Bolt Zinc Grade 5
11	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2
12	S-1196	5/16"-18 x 1" HHCS Bolt Grade 5
13	S-2741	5/16"-18 x 1-1/2" HHCS Bolt Zinc Grade 5

10" Intermediate Well Parts List

Tube (14)

Part #	Description
GK6921	10" x 24' Bin 12" Well
GK6922	10" x 27' Bin 12" Well
GK6923	10" x 30' Bin 12" Well
GK6924	10" x 33' Bin 12" Well
GK6925	10" x 36' Bin 12" Well
GK6926	10" x 39' Bin 12" Well
GK6927	10" x 42' Bin 12" Well
GK6928	10" x 48' Bin 12" Well

Flight (15)

Part #	Description
GK7039	10" x 175-1/4" 24' Bin
GK7040	10" x 193-1/4" 27' Bin
GK7041	10" x 211-1/4" 30' Bin
GK7042	10" x 235-1/4" 33' Bin
GK7043	10" x 247-1/4" 36' Bin
GK7044	10" x 265-1/4" 39' Bin
GK7045	10" x 289-1/4" 42' Bin
GK7046	10" x 325-1/4" 48' Bin

6" Bin Flange Parts



6" Bin Flange Parts List

Ref #	Part # Description		
1	GC10546	6" Top Bin Flange	
2	GC10547	6" Bottom Bin Flange	
3	GK1619	Clutch Control Rod Position Lock Flange	
4	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2	
5	S-2741	5/16"-18 x 1-1/2" HHCS Bolt Zinc Grade 5	
6	S-6076	5/16"-18 x 3/4" Carriage Bolt Zinc Grade 2	
7	S-275	5/16"-18 x 3/4" HH BIN Bolt YDP Grade 5	
8	See Page 67		
9		See Page 67	
10		See Page 67	
11	GC12074	Clutch Control Rod Handle	
12	S-8397	5/16" x 1-3/4" Spring Pin	
13	GK1726	1/2" Control Rod Clamp	
14	S-1937	5/16" Flat Washer Zinc Grade 2	
15	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2	
16	GK1206	6" End Cap	
17	S-275	5/16"-18 x 3/4" HH BIN Bolt YDP Grade 5	

8" Bin Flange Parts



8" Bin Flange Parts List

Ref #	Part #	t # Description	
1	GC10534	8" Top Bin Flange	
2	GC10536	8" Bottom Bin Flange	
3	GK1619	Clutch Control Rod Position Lock Flange	
4	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2	
5	S-2741	5/16"-18 x 1-1/2" HHCS Bolt Zinc Grade 5	
6	S-6076	5/16"-18 x 3/4" Carriage Bolt Zinc Grade 2	
7	S-275	5/16"-18 x 3/4" HH Bin Bolt YDP Grade 5	
8	See Page 67		
9	See Page 67		
10		See Page 67	
11	GC12074	Clutch Control Rod Handle	
12	S-8397	5/16" x 1-3/4" Spring Pin	
13	GK1726	1/2" Control Rod Clamp	
14	S-1937	937 5/16" Flat Washer Zinc Grade 2	
15	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2	
16	GK1216	8" End Cap	
17	S-275	5/16"-18 x 3/4" HH Bin Bolt YDP Grade 5	

10" Bin Flange Parts



10" Bin Flange Parts List

Ref #	Part # Description		
1	GC10560	10" Top Bin Flange	
2	GC10588	10" Bottom Bin Flange	
3	GK1619	Clutch Control Rod Position Lock Flange	
4	S-3611	5/16"-18 Serrated Flange Nut YDP Grade 2	
5	S-2741	5/16"-18 x 1-1/2" HHCS Bolt Zinc Grade 5	
6	S-6076	5/16"-18 x 3/4" Carriage Bolt Zinc Grade 2	
7	S-275	5/16"-18 x 3/4" HH Bin Bolt YDP Grade 5	
8	See Page 67		
9		See Page 67	
10		See Page 67	
11	GC12074	Clutch Control Rod Handle	
12	S-8397	5/16" x 1-3/4" Spring Pin	
13	GK1726	1/2" Control Rod Clamp	
14	S-1937	S-1937 5/16" Flat Washer Zinc Grade 2	
15	S-456	3/8"-16 Hex Nut YDP Grade 5	
16	GK2184	10" End Cap	
17	S-7469	3/8"-16 x 1" HHCS Bolt Zinc Grade 5	

6", 8" and 10" Bin Flange Parts

Control Pipe

NOTE: All two (2) piece pipes assemble with GC05323; 3/8" NPT x 1.0" pipe connector.

Center Well Control Pipe (8)		Intermediate Well Control Pipe (9)			Clutch Control Pipe (10)		
Size	Part #	Description	6" Part #	8" or 10" Part #	Description	Part #	Description
15'	GC09110	0.840" O.D. x 7'	GC10360	GC11114	1" O.D. x 5' 1.851"	GK1709	0.840" O.D. x 10'
18'	GC09111	0.840" O.D. x 8' 6"	GC10359	GC11115	1" O.D. x 6' 10.475"	GK1720	0.840" O.D. x 11' 6"
21'	GC09112	0.840" O.D. x 10'	GC10358	GC11117	1" O.D. x 8' 6.824"	GK1730	0.840" O.D. x 13'
24'	GC09113	0.840" O.D. x 11' 6"	GC10357	GC11118	1" O.D. x 9' 8.726"	GK1744	0.840" O.D. x 14' 6"
27'	GC09114	0.840" O.D. x 13'	GC10356	GC11119	1" O.D. x 10' 8.726"	GK1749	0.840" O.D. x 16'
30'	GC09115	0.840" O.D. x 14' 6"	GC10355	GC11120	1" O.D. x 11' 8.726"	GK1754	0.840" O.D. x 17' 6"
33'	GC09116	0.840" O.D. x 16'	GC10354	GC11121	1" O.D. x 14' 1.664"	GK1761	0.840" O.D. x 19' 6"
36'	GC09117	0.840" O.D. x 17' 6"	GC10353	GC11122	1" O.D. x 515' 4.664"	GK1769	0.840" O.D. x 20' 6"
20'	CC00118			CC11122	1" O D x 16' 6 164"	GK1766	0.840" O.D. x 1'
39	GC09118	0.640 O.D. X 19	-	GCTT23	1 O.D. x 16 6.164	GK1776	0.840" O.D. x 21'
40'	CC00110			0011124		GK1784	0.840" O.D. x 2' 6"
42	GC09119	0.640 O.D. X 20 6	-	GC11124	1 O.D. X 18 8.226	GK1776	0.840" O.D. x 21'
40'	GK1776	0.840" O.D. x 21'		- GC11125	GC11125 1" O.D. x 21'	GK1718	0.840" O.D. x 5' 6"
40	GC09075	0.840" O.D. x 2' 6"	-			GK1776	0.840" O.D. x 21'

6" Well Gate Control Parts



6" Well Gate Control Parts List

Ref #	Part #	Description
1	GK5063-BS	6" Control Lever Handle Weldment - Bin Silver
2	S-8480	3/8" x 2-3/4" Safety Snap Pin

NOTES

8" and 10" Rack and Pinion



Ref #	Part #	Description
3	GK6838	8" Rack and Pinion Housing Assembly
3	GK6966	10" Rack and Pinion Housing Assembly
4	GK80079	8" Rack and Pinion Body Assembly
4	GK80080	10" Rack and Pinion Body Assembly
5	GC09859	Spur Gear 10DP 1" Face 22T
6	GK6841	Rack and Pinion Spacer Tube
7	GK4211	1" I.D. x 1-1/2" O.D. Flat Washer 10 Gauge Zinc
8	GK6845	Rack and Pinion Crank Shaft
9	S-4377	5/16" x 2" Grooved Roll Pin
10	GK1603	8" Half Band
10	GK5116	10" Half Band
11	S-2741	5/16"-18 x 1-1/2" HHCS Bolt Zinc Grade 5
12	S-845	5/16" Flat Washer Zinc Grade 2
13	S-3611	5/16"-18 Serrated Flange Nut Zinc Grade 2
14	S-7149	5/16"-18 x 1-3/4" HHTB Bolt Zinc Grade 5
15	S-396	5/16" Hex Nut Zinc Grade 2
16	S-9067	3/8"-16 x 3/4" Serrated Flange Bolt Zinc Grade 5
17	S-248	3/8" Flat Washer Zinc Grade 2
18	GK7260	3/4" Wrench Assembly
19	GC10316	Rack Bar 10P x 1" x 14"
20	S-8999	5/16"-18 x 1/2" HHCS Bolt Zinc Grade 5

8" and 10" Rack and Pinion Parts List

Assembled Sweep Arm Components




Assembled Sweep Arm Components (Continued)



Assembled Sweep Arm Components Parts List

System	Ref #	Part #	Description
6"	1	GK6175	Shield Mounting Bracket
8" and 10"	1	GK4461	
ALL	2	GK1266	Universal Joint 1" Bore x 5" Long
6"	- 3	GK1678	Universal Joint Stub Shaft 1-1/4" x 5-3/4"
8" and 10"	3	GK5929	Universal Joint Stub Shaft 1-1/2" x 5-3/4"
6"	4	GK1736	Connecting Shaft 1-1/4" x 11-1/2"
8" and 10"	4	GK1951	Connecting Shaft 1-1/2" x 11-1/2"
6"	5	GK2107	Decring Stand Accomply
8" and 10"	5	GK1954	Bearing Stand Assembly
ALL	6	GK5615	Shield Splice Plate
6"	7	GK80023	Reduction Wheel Drive, 7.889:1, Gear
8" and 10"		GK7960	Reduction Wheel Drive, 7.889:1, Gear
6"	0	GK80071-BS	Wheel Hub Wolded Assembly - Pla Silver
8" and 10"	8	GK80072-BS	Wheel Hub Welded Assembly - Bin Silver
6"	0	GK4218	Wheel Disc, Rubber, 11"
8" and 10"	9	GK4241	Wheel Disc, Rubber, 13"
6"	10	GK4219	
8" and 10"	10	GK4240	
ALL	11	S-2086	3/8"-16 x 1-1/2" HHCS Bolt Zinc Grade 8
ALL	12	S-4377	5/16" x 2" Grooved Roll Pin
ALL	13	S-248	3/8" Flat Washer Zinc
ALL	14	S-7383	3/8" Nylock Nut Zinc Grade 5
6"	15	S-8317	7/16"-14 Stover Nut Zinc Grade C
8" and 10"	15	S-8315	1/2"-13 Stover Nut Zinc Grade C
6"	16	S-8316	7/16"-14 x 3" HHCS Bolt Zinc Grade 8
8" and 10"	10	S-8252	1/2"-13 x 3" HHCS Bolt Zinc Grade 8
ALL	17	S-8055	3/8"-16 x 3" Carriage Bolt Zinc Grade 5
ALL	18	S-4275	5/16"-18 x 3/4" HHTB Bolt Zinc Grade 5
ALL	19	S-1937	5/16" Flat Washer Zinc Grade 2
ALL	20	S-3611	5/16"-18 Serrated Flange Nut Zinc Grade 2
ALL	21	S-9066	3/8"-16 x 1-1/4" Serrated Flange Bolt Zinc Grade 5
ALL	22	S-10107	3/8"-16 x 2-1/2" HHCS Bolt Zinc Grade 8
ALL	23	S-8251	3/8"-16 Stover Nut Grade C
ALL	24	S-7382	5/16"-18 Nylock Nut ZN Grade 5
ALL	25	S-7329	5/16"-18 x 2" HHCS Bolt Zinc Grade 2

6", 8" and 10" Flight and Shield Bundle



6" Flight and Shield Bundle Parts List

Bundle #	Part #	Description
GK6180	GK6178	6" x 4'-4" Flight Weldment
GR0100	GK5605	6" x 4'-4" Shield Assembly
CK6191	GK5932	6" x 5'-6" Flight Weldment
GROIDI	GK5687	6" x 5'-6" Shield Assembly
CK5017	GK2134	6" x 5'-10" Flight Weldment
GROOT	GK4537	6" x 5'-10" Shield Assembly
CK6192	GK5933	6" x 7'-0" Flight Weldment
GR0102	GK5688	Description6" x 4'-4" Flight Weldment6" x 5'-6" Flight Weldment6" x 5'-6" Shield Assembly6" x 5'-10" Flight Weldment6" x 5'-10" Shield Assembly6" x 7'-0" Flight Weldment6" x 7'-0" Shield Assembly6" x 7'-4" Flight Weldment6" x 7'-4" Flight Weldment6" x 8'-6" Flight Weldment6" x 8'-6" Shield Assembly6" x 8'-6" Flight Weldment6" x 8'-10" Flight Weldment6" x 8'-10" Flight Weldment
CK6192	GK6179	6" x 7'-4" Flight Weldment
GR0105	GK5606	6" x 7'-4" Shield Assembly
CK6184	GK5934	6" x 8'-6" Flight Weldment
GK6184	GK5689	6" x 8'-6" Shield Assembly
GK5018	GK2129	6" x 8'-10" Flight Weldment
91/3010	GK4538	6" x 8'-10" Shield Assembly

8" and 10" Flight and Shield Bundle Parts List

Bundle #	Part #	Description
CK6195	GK5911	8"/10" x 4'-4" Flight Weldment
GR0105	GK5757	8"/10" x 4'-4" Shield Assembly
CK6196	GK5912	8"/10" x 5'-6" Flight Weldment
GR0100	GK5690	8"/10" x 5'-6" Shield Assembly
CK4927	GK2080	8"/10" x 5'-10" Flight Weldment
GR4027	GK4740	8"/10" x 5'-10" Shield Assembly
GK80238	GK80239	8"/10" x 6'-10" Flight Weldment
GR00230	GK80240	8"/10" x 4'-4" Flight Weldment 8"/10" x 4'-4" Flight Weldment 8"/10" x 5'-6" Flight Weldment 8"/10" x 5'-6" Shield Assembly 8"/10" x 5'-10" Flight Weldment 8"/10" x 5'-10" Flight Weldment 8"/10" x 6'-10" Flight Weldment 8"/10" x 7'-0" Flight Weldment 8"/10" x 7'-0" Shield Assembly 8"/10" x 7'-4" Flight Weldment 8"/10" x 8'-6" Flight Weldment 8"/10" x 8'-6" Shield Assembly 8"/10" x 8'-6" Shield Assembly 8"/10" x 8'-6" Shield Assembly 8"/10" x 8'-10" Flight Weldment 8"/10" x 8'-6" Shield Assembly
CK6197	GK5913	8"/10" x 7'-0" Flight Weldment
GROIOT	GK5691	8"/10" x 7'-0" Shield Assembly
CK6199	GK5914	8"/10" x 7'-4" Flight Weldment
GR0100	GK5756	8"/10" x 7'-4" Shield Assembly
CK6190	GK5915	8"/10" x 8'-6" Flight Weldment
GK0189	GK5692	8"/10" x 8'-6" Shield Assembly
01/ 4000	GK2074	8"/10" x 8'-10" Flight Weldment
Gr.4020	GK4745	8"/10" x 8'-10" Shield Assembly





Spacer Plates for Reduction Drive Wheel Parts List

System	Part #	Thickness	Length	Width	Hole Diameter	Hole Spacing
	GK4209	14 Gauge				
6"	GK4208	12 Gauge	5"	2"	7/16"	4"
	GK4207	1/4"				
8" and 10"	GK4224	14 Gauge		2-1/2"	7/16"	5"
	GK4225	12 Gauge	6"			
	GK4226	1/4"				

Reduction Wheel Drive Components



Ref #	Part #		Description	
	GK5903	GK5904	Description	
1	GK4219	GK4240	Outer Wheel Disk	
2	GK4218	GK4241	Wheel Disk, Rubber	
3	GK4217	GK4242	Inner Wheel Weldment	
4	S-7329	S-7329	5/16"-18 x 2" HHCS Bolt Zinc Grade 2	
5	S-7382	S-7382	5/16"-18 Nylock Nut ZN Grade 5	
6	GK4223	GK4223	Outer Drive Housing Weldment with Bushing	
7	GK4211	GK4211	1" I.D. x 1-1/2" O.D. Flat Washer 10 Gauge Zinc	
8	GK4234	GK4234	#40 40T Sprocket with Hub	
9	GK4215	GK4215	Housing Ring with Grease Zerk	
10	GK4233	GK4233	# 40 Double Roller Chain with Link	
11	S-4383	S-4383	5/16" x 2-1/4" Rolled Spring Pin	
12	GK4210	GK4210	1" I.D. x 1-1/2" O.D. Flat Washer 14 Gauge Zinc	
13	GK4213	GK4228	Inner Drive Housing Weldment with Bushing	
14	S-7076	S-7076	5/16"-18 x 2-1/2" HHCS Bolt Zinc Grade 5	
15	GK4232	GK4233	Bearing, 1" I.D., 2 Hole Flange	
16	S-968	S-968	3/8"-16 Serrated Flange Nut Zinc Grade 5	
17	GK6526	GK6526	Drive Shaft, with Sprocket and Roll Pin	
18	DC-1687	DC-1687	Shipped without Grease Decal	

Reduction Wheel Drive Components Parts List

Reduction Wheel Drive Additions Components Parts List

System	Part #	Description			
Complete Drive					
6"	GK5903	Reduction Wheel Drive, 4:1, Chain			
8" and 10"	GK5904	Reduction Wheel Drive, 4:1, Chain			
	Bushing for Drives				
6"	GK4205	Bushing 1" x 1" x 4-3/8"			
8" and 10"	GK4206	Bushing 1-1/2" x 1" x 4-3/8"			
	Hardware for Flight, Bushing and Drive Shaft				
6"	S-6762	3/8"-16 x 2-1/2" HHCS Bolt Zinc Grade 5			
8" and 10"	S-8677	3/8"-16 x 3" HHCS Bolt YDP Grade 8			
ALL	S-8251	3/8"-16 Stover Nut Grade C			
Hardware for Shield and Drive Housing					
6"	S-3727	3/8"-16 x 1-3/4" HHCS Bolt YDP Grade 8			
8" and 10"	S-8706	3/8"-16 x 1-3/4" HHTB Bolt Zinc Grade 5			
ALL	S-248	3/8" Flat Washer Zinc			
ALL	S-7383	3/8" Nylock Nut Zinc Grade 5			

NOTES

Limited Warranty - N.A. Grain Products

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 from the date of shipment (or, if shipped by vessel, 14 months from the date of arrival at the port of discharge). If, in GSI's sole judgment, a product is found to have a defect in materials and/or workmanship, GSI will, at its own option and expense, repair or replace the product or refund the purchase price. This Limited Warranty is subject to extension and other terms as set forth below.

Warranty Enhancements:

The warranty period for the following products is enhanced as shown below and is in lieu of (and not in addition to) the above stated warranty period. (Warranty Period is from date of shipment.)

	Product	Warranty Period
	Grain Bin Structural Design	5 Years
Storago	 Roof, doors, platforms and walk arounds 	
Storage	• Flooring (when installed using GSI specified floor support system for that floor)	
	Hopper tanks	
	Dryer Structural Design - (Tower, Portable and TopDry)	5 Years
	• Includes (frame, portable dryer screens, ladders, access doors and platforms)	
Conditioning	All other Dryer parts including:	2 Vooro
	 Electrical (controls, sensors, switches and internal wiring) 	2 16015
	Bullseye Controllers	2 Years
	Bucket Elevators Structural Design	5 Years
Material Handling	Towers Structural Design	5 Years
wateriarrianumy	Catwalks Structural Design	5 Years
	Accessories (stairs, ladders and platforms) Structural Design	5 Years

Conditions and Limitations:

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION SET FORTH HEREIN; SPECIFICALLY, GSI DISCLAIMS ANY AND ALL OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH: (I) ANY 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.

The sole and exclusive remedy for any claimant is set forth in this Limited Warranty and shall not exceed the amount paid for the product purchased. This Warranty only covers the value of the warranted parts and equipment, and does not cover labor charges for removing or installing defective parts, shipping charges with respect to such parts, any applicable sales or other taxes, or any other charges or expenses not specified in this Warranty. GSI shall not be liable for any other direct, indirect, incidental or consequential damages, including, without limitation, loss of anticipated profits or benefits. Expenses incurred by or on behalf of a claimant without prior written authorization from the GSI warranty department shall not be reimbursed. 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. Prior to installation, the end-user bears all responsibility to comply with federal, state and local codes which apply to the location and installation of the products.

This Limited Warranty extends solely to products sold by GSI and does not cover any parts, components or materials used in conjunction with the product, that are not sold by GSI. GSI assumes no responsibility for claims resulting from construction defects, unauthorized modifications, corrosion or other cosmetic issues caused by storage, application or environmental conditions. Modifications to products not specifically delineated in the manual accompanying the product at initial sale will void all warranties. 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.

Notice Procedure:

In order to make a valid warranty claim a written notice of the claim must be submitted, using the RMA form, within 60 days of discovery of a warrantable nonconformance. The RMA form is found on the OneGSI portal.

Service Parts:

GSI warrants, subject to all other conditions described in this Warranty, Service Parts which it manufactures for a period of 12 months from the date of purchase unless specified in Enhancements above.

(Limited Warranty - N.A. Grain Products_ revised 19 October 2018)

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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