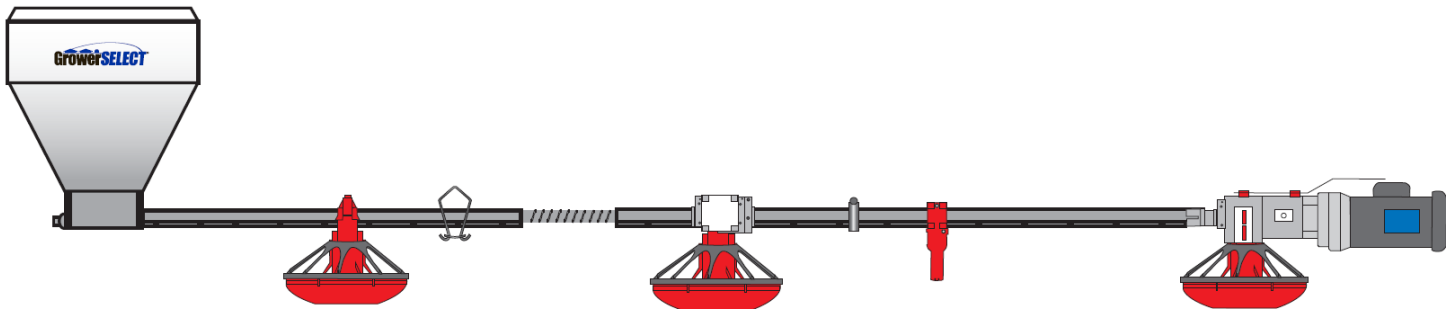


# Grower**SELECT**® Poultry Feed Systems

## Installation and Operating Instructions





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# Safety Information

Caution, Warning, and Danger Decals have been placed on the equipment to warn of potentially dangerous situations. Care should be taken to keep this information intact and easy to read at all times. Replace missing or damaged safety signs.

## CAUTION – AUTOMATIC EQUIPMENT



This decal is placed near the power drive unit.

Severe personal injury will result, if the electrical power is not disconnected, prior to servicing the unit.

## WARNING – ROTATING AUGER



This decal is placed on the clean-out cover of the Poultry Auger Control Unit.

Severe personal injury will result, if the electrical power is not disconnected, prior to servicing the unit. Use caution when working with the Auger – springing auger may cause personal injury.

## DANGER – ELECTROCUTION HAZARD



Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically states otherwise.

Ground all electrical equipment for safety.

All electrical wiring must be done by a qualified electrician in accordance with local and national electrical codes.

Ground all non-current carrying metal parts to guard against electrical shock. With the exception of motor overload protection, electrical disconnects and over current protection are not supplied with the equipment.

## Suspension Layout and Recommendations

### Installing the Main Line

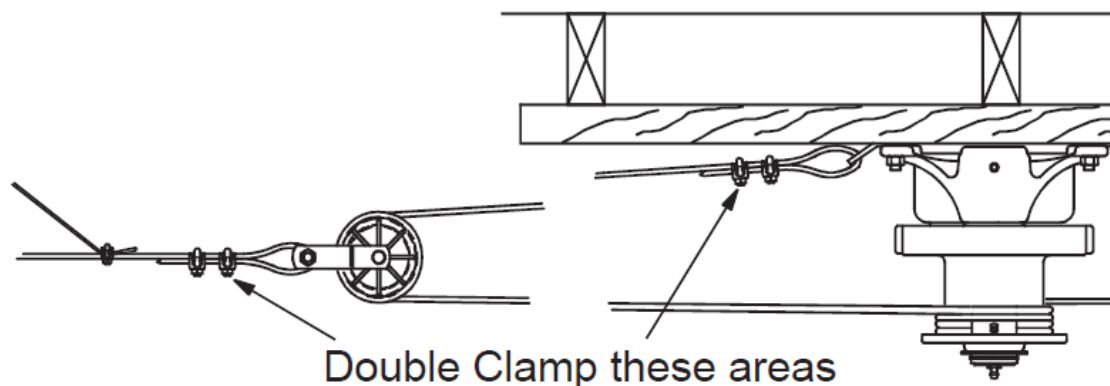
The typical Suspension Systems are based on ceiling heights of 14' with Suspension Drop points every 8'. DO NOT EXCEED 10' BETWEEN SUSPENSION DROPS.

Adequate overhead structure must be provided to support the weight of the feeders, hoppers, power drive units, etc. The type of installation required depends on the feeder line length.

**Note: Special support is required at each Hopper location.**

Power Drive Unit Locations: **The feeder line must be supported within 3' of the Power Drive Unit.** This is in addition to the required Power Drive Unit suspension. If the Control Unit or Hopper does not come out directly under a truss, fasten a pulley to a 2" X 8" board that will span 2 trusses and is capable of supporting 300 pounds for the Hopper and 75 pounds for the Control Unit.

Feed Hopper Locations: **The Feeder Line must be supported within 1' of the Feed Hopper.** This is in addition to the required Feeder Hopper suspension. After determining the type of suspension system required, decide where the Feeder Line is to be installed. Mark a straight line on the ceiling or rafters the full length of the Feeder Line. Use a string, chalk line, or the winch cable, temporarily attached with staples, to mark the line. Center the line directly over where the Feeder Line is to be installed. Double the clamps for feed lines over 350' as shown below.



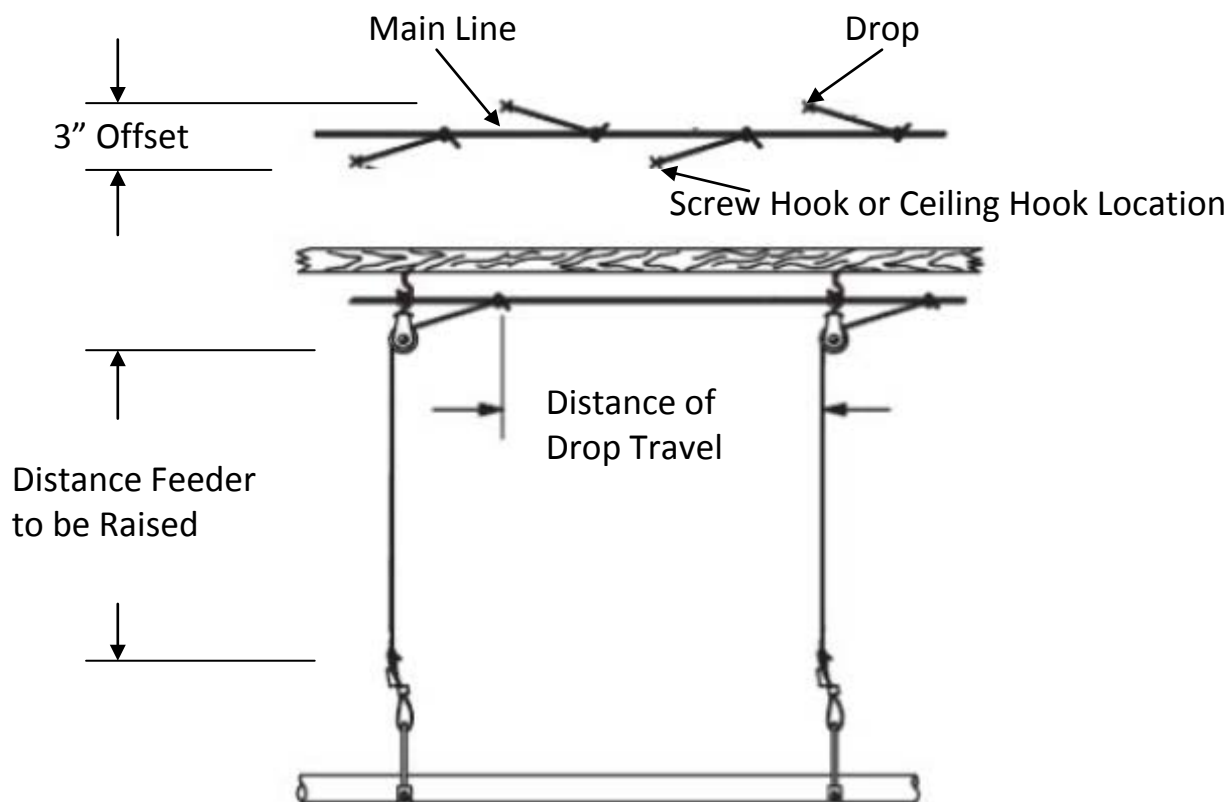
## Screw Hook Installation

The recommended distance between the drops for the feed pans is 8' on center. Do not exceed 10' spacing on drop lines.

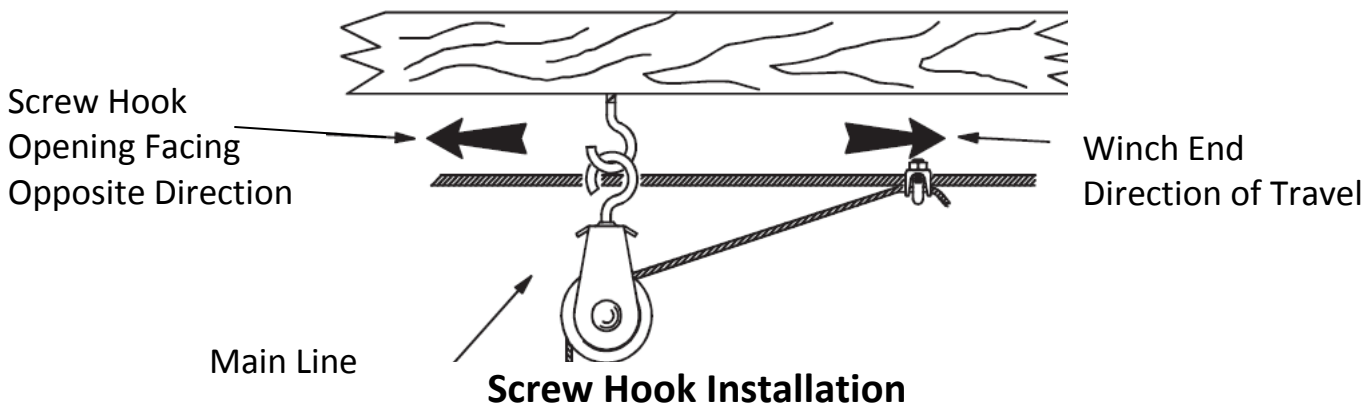
If the distance raised is greater than the distance between the drop spacing, offset the hooks 3" to each side of the line to prevent the cable clamps from interfering with the pulleys.

Screw the hook into the truss the full length of the threads to prevent bending.

The opening of the screw hook must be pointed away from the direction of travel when the winch raises the feeder line.

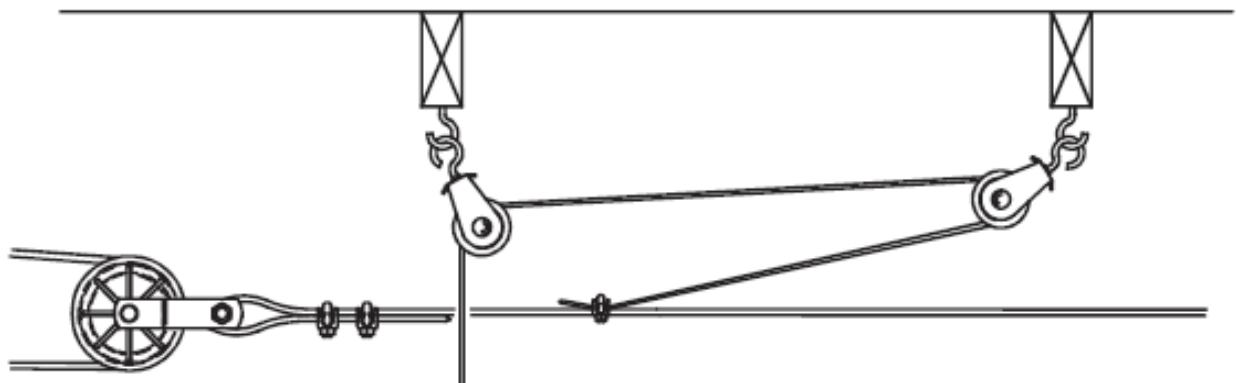


**Drop Line Offset**



### Drop Installation

1. Attach a 1-7/8" pulley or larger to each hook.
2. Thread the end of the drop through the pulley toward the winch. Clamp this end to the Main Line about 6" from the last pulley, using a 3/16" cable clamp or 3/16" aluminum sleeve.
3. Allow enough drop length for installation of the Adjustment Leveler. Sufficient cable is included to provide "double back" on drops located beneath and near the winch.



"Double Back" Cable Hookup

4. Begin installing suspension drops at the winch and proceed to the ends of the feeder line. Keep the main line tight between drops. It may be necessary to hang a weight on the end of the main line to maintain tension on the line.



## Feeder Line Assembly and Suspension

### General Installation Notes:

Installation of this equipment and related OEM (Original Equipment Manufacturer) equipment should be in accordance with these instructions, OEM’s installation instructions and local codes (if applicable). Failure to follow specified instructions may cause damage to equipment and/or personal injury or death. Take special note of any Warnings or Safety Decals on the equipment and in manuals. Always wear protective clothing and any applicable Personal Protective Equipment (Safety Glasses and/or Ear Plugs) when working with the equipment. Discarded materials, equipment and boxes should be recycled in accordance with local and national codes.

**Note: Power Units are to be wired in accordance with all Local, State and National Wiring Codes. All wiring sizes and fuse capacities are to be sized according to National Electrical Code specifications or other applicable regulations.**

### GROWER SELECT “CLASSIC FLOOD” FEED PAN INSTALLATION – MANAGEMENT GUIDE

Thank you for purchasing the “GrowerSELECT, Classic Flood” feed pan. This feed pan is designed to be used with 1 ¼” diameter galvanized feeder tube / auger type feed delivery systems. It will not perform as designed with any other diameter tubing or feed delivery system. Contact your local Hog Slat/Georgia Poultry store for advice on installing the “GrowerSELECT, Classic Flood” pan on any existing system before you attempt installation.

#### \*RECOMMENDED BIRDS PER PAN:

Broilers	4 – 5 lb. at market	60 – 90 birds per pan
Broilers	6 – 7 lb. at market	55 – 75 birds per pan
Broilers	8 – 9 lb. at market	50 – 65 birds per pan
Commercial Layer Pullet	0 – 20 weeks	40 – 60 birds per pan
Commercial Layer	18 + weeks	30 – 40 birds per pan

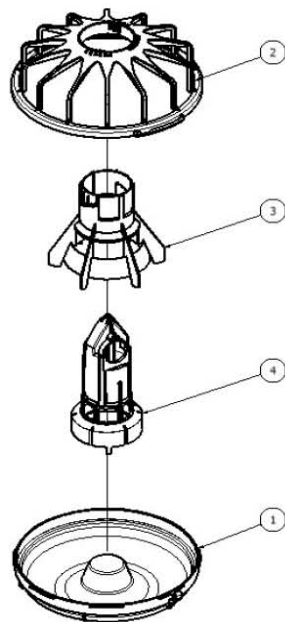
**\*Note:** Recommendations on number of birds per pan are made in “general” terms. Your climate, density, breed, genetics, house design and general management should be taken into consideration before determining the best number of pans for your facility. Hog Slat/Georgia Poultry makes no guarantees or warranties on performance based on these recommendations. Proper ventilation, feeder and drinker access, health care and the recommendations of your specific breed can change the number of birds per pan that best suits your needs. You should also consult with your integrator or genetics/breeder company for their industry standards.



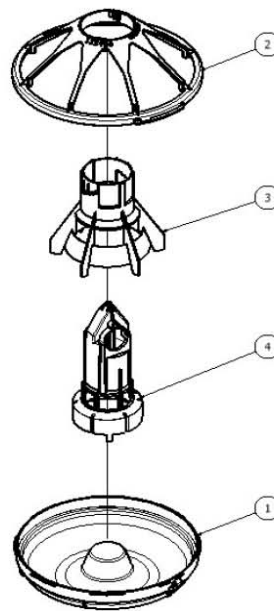


# GrowerSELECT

	Item	Fig 1	Fig 2
Grill	2	HS8000-2	HS8000-8
Cone	3	HS8000-3F	HS8000-3F
Support	4	HS8000-4F	HS8000-4F
Pan	1	HS8000-7	HS8000-7



**Fig 1**  
14 Spoke Extended Fins



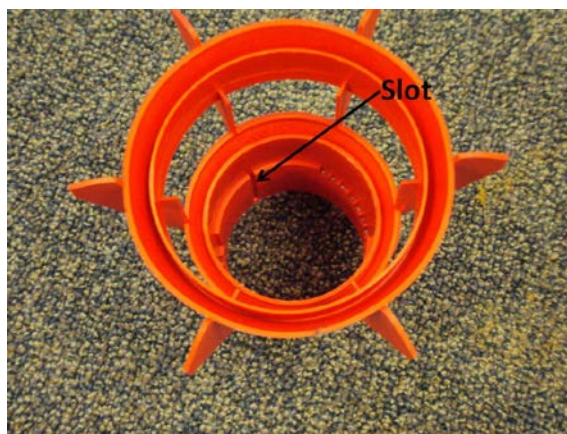
**Fig 2**  
8 Spoke Extended Fins



**STEP 1** – Insert the **Feeder Support** (part # HS8000-4) into the **Feeder Adjuster** (part # HS8000-3). Note: Guide tabs on **Feeder Support** (part # HS8000-4) should be positioned in corresponding slots on **Feeder Adjuster**.



Support



Adjuster



**STEP 2** – Holding the assembled Support and Adjuster with one hand, place the gray **Feeder Grill** (part # HS8000-2) over the top of the **Feeder Support** so that it comes to rest around both the Support and Adjuster. Note the small “arrow” in the **Adjuster** this arrow should be pointing at the numbered setting you desire. If you’re not sure what setting you desire, start with setting # 4. This setting does not affect the “Flood” feature of the pan and is easy to change later if need arises.



**STEP 3** – Put the **Feeder Pan** (part # HS8000-1) on the grill. First hang the pan onto the grill by hooking the “clean out” hinge into the grill’s “keeper”. Now rotate the pan upwards until in place. Be sure the pan is sealed on all sides and rotate the pan “clockwise” to tighten the pan onto the grill. Some force will be needed to insure proper locking of the pan in place.



Now that your pans are assembled, simply slide them onto your approved feeder tube and into position over the discharge holes.

#### **One important note concerning your feeder tubes**

As mentioned earlier, the Grower Select, Classic Flood pan is designed to work with 1 ¼” diameter feed tubes. There are basically 2 styles of feed tube on the market today. “Smooth Tube” and “Ribbed Tube”. “Smooth Tube” is just that. It is smooth on the outside and where the discharge holes are located there will be “tabs” protruding on either side of the hole to prevent the pans from sliding away from the discharge hole.

“Ribbed Tube” has a seam protruding on the side of the tube that runs the entire length of the feeder tube. This rib stops at the discharge hole to allow the feed pan to swivel on the tube then, the rib continues to the next hole and so on. The rib is there for 2 reasons. First it prevents the pans from sliding away from the discharge hole. Second it is used in conjunction with the hanger to prevent the tube from twisting and



causing the discharge hole to turn up, away from the feeder pan. Should the hole turn up and away from the feeder pan, feed cannot drop out into the pans.

See the picture below for the proper position of the hanger in relation to the discharge hole. The hanger used for “Ribbed Tube” is different than the one for “Smooth Tube”. It has an odd shape to allow the rib to rest in the cradle of the hanger, thereby preventing twisting of the tubes.



## MANAGEMENT GUIDE

### Getting Started:

As always with any new installation, run the feeding system prior to populating the barn to insure any minor problems with installation are addressed as soon as possible.

For the “typical” broiler application the lines should be lowered completely to allow the “classic flood” windows to open completely. Be careful not to allow “slack” in the winching cables as this will create problems when you decide to start raising the feed lines. Just lower the lines so all windows are open and cables are slightly taut.

Start the feeder motors to pull or push the feed down the feeder tubes. Once all pans are full the control pan will shut off the feed line motor.

### Feeding the flock at Day 1:

The flood windows allow large amounts of feed into the pans. This makes the “Classic Flood” an excellent feeder for starting baby chicks. However, this also can be a problem if the system is allowed to operate on “Full Automatic” DO NOT OPERATE THE SYSTEM IN FULL AUTOMATIC WITH THE FLOOD WINDOWS OPEN. THIS WILL CREATE THE OPPORTUNITY FOR EXCESSIVE FEED WASTAGE.

We recommend that you “manually feed” the birds while the feed pans are in full flood with the windows open. By “manually feeding” we mean that the system is turned off and is operated 2 – 3 times per day for the first 5 – 7 days. After day 7 you will need to “manually feed” them 3 or more times per day through 14 days of age. A time clock or the timer on your existing controller can do this for you if you wish. You should

consult with your integrator or breeder/genetics supplier for their feeding recommendations for your specific barns and climate.

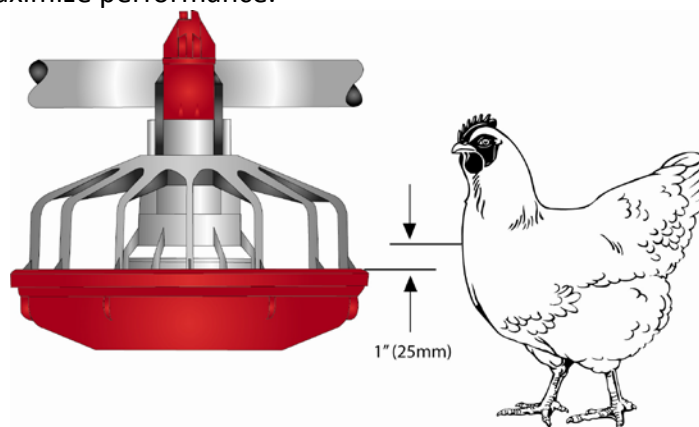
Even though the “Classic Flood” does an exceptional job of feeding young chicks, supplemental feeding is recommended. This is typically done through the aid of turn down spout type feed dispensers where by the feed is dispensed into a plastic or paper chick lid. Feed availability is the key to getting off to a good start and most producers incorporate this practice in modern chicken facilities. If you are not sure what you need, please contact your local Georgia Poultry or Hog Slat store for advice on what will work best for your situation.

### Moving on up:

As the birds get taller, so too should the “Classic Flood” be raised to accommodate the larger size of your flock. When to go from “Flood” to “Non-Flood” is something that will change with each flock and is somewhat dependent on the time of year, breed of bird, feed density, and other variables. Basically you will decide to raise the feeders out of the “Flood” stage around day 15 of age. This is a simple process. When the line itself is raised, the windows will close to stop the flooding and now the feed enters the pan from underneath the “adjustment” cone.

The first time you raise the lines to close the windows, you should do it when the birds have eaten down most of the feed from the pans. This will allow the windows to close easier. Raise the lines so that the bottom of the pans barely clear the litter. Sometimes there will be uneven places in your litter, don't be alarmed, birds will quickly level out the litter.

At this age and to market you want to use the birds' neck to help you conserve feed. In other words, the birds can now reach into the pan for feed and so you want to operate your pans at the optimum height so as to insure good growth without feed wastage. Continue to raise your feed lines so that the pans are at the optimum height on a regular schedule. (At least 3 times per week, but consult with your integrator and/or genetics provider for specific recommendations) Note also, you have suspension system that is equipped with individual drops with cable adjusters. This is to fine tune the level of your pans with the contours of the floor to maximize performance.



**Fine tuning:**

Remember earlier when we recommended setting your pans on # 4. If you find this is not enough feed in the pans during the grow out period, you can simply “turn the pan” to level 5. If you find that it’s too much feed, you can reduce it by turning the pan to level 3. There are 6 settings on the “Classic Flood” so you can find the one that best suits your bird and feed consistency. However, we recommend if you do make changes, make them gradually. Adjust only one number or setting at the time and then only do a few pans. Give it a couple of days to see what the results are and then make the decision to adjust more or all of the pans accordingly. As with all things concerning raising your birds, gradual changes are best.

**Generally speaking:**

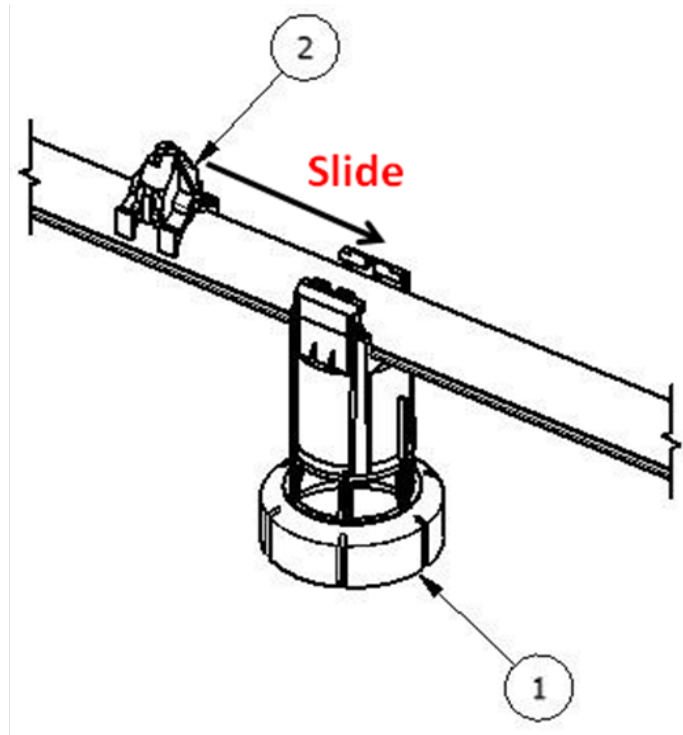
Feeder pans only work when properly fed. Sounds simple, but the same problems we’ve seen for 30 years still exist today. If control pans, motors and switches aren’t working properly, the pans are not going to get feed to them when needed and this will cost you in bird performance. Be sure you are maintaining your electrical systems that provide feed to these pans, as well as the augers and tubes too.

Shocker wires are a must with any “swinging” style feeder. The Grower Select, Classic Flood is no exception to this rule. Many producers today don’t run electricity on the training or shocker wires. You should in order to prevent fecal contamination in the feed, prevent premature rusting of the galvanized feeding tubes, clamps etc.... but even if you don’t run electricity through a shocker box, you must have the shocker wire in place and it must be held tight by springs to insure that your feeder pan will come back to “0” after it swings. Otherwise the feeder pan will get pushed up to one side by aggressive birds and spill feed or get caught and stay in that position allowing feed to flow onto the ground.

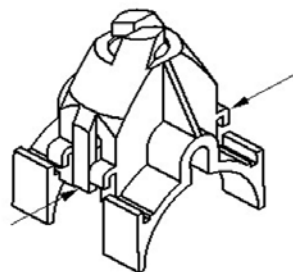
**TWO PIECE SUPPORT CONE USAGE AND ASSEMBLY**

The Two Piece Support Cone was originally intended to be a replacement part allowing easy replacement of damaged feed pans without having to disassemble the feed line for replacement of broken feed pan(s). Using the Two Piece Support, the pan can be replaced by simply following the procedure below:

1. Using suitable tool, cut the top out of the existing broken feed pan assembly allowing for removal.
2. Position replacement pan assembly containing the Two Piece Replacement Support in proper orientation under feed line.
3. Removable Top must be assembled by sliding into place (from left or right side) with feed pan assembly in place. **(Please Note: In the following illustration, the pan, grill and adjuster are not show for clarification but must be assembled in place before Removable Top is assembled.)**



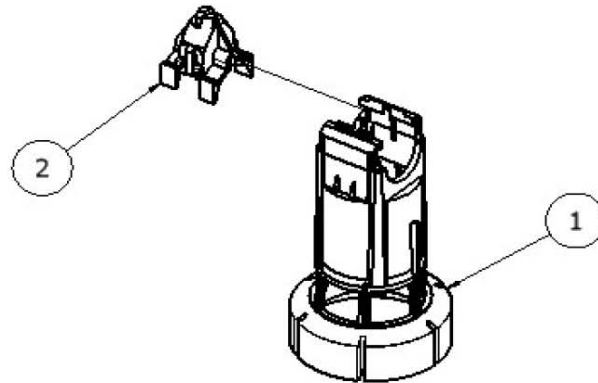
4. When assembling Removable Top (Part HS8000-6R) to support; Tabs on sides of Removable Top must be depressed to allow for assembly.



Depress Tabs on each side of Removable Top

The Two Piece Support Cone can also be used for “whole house” feeder replacement where disassembly of feed lines is not desired. In this instance, the same assembly procedure described above should be used to replace all of the feed pan assemblies.

When performing any maintenance or repairs; make sure that **Electric Power is Cut Off at Source** and proper **Safety Precautions** are observed by proper use of any Tools and use of Appropriate Safety Equipment.



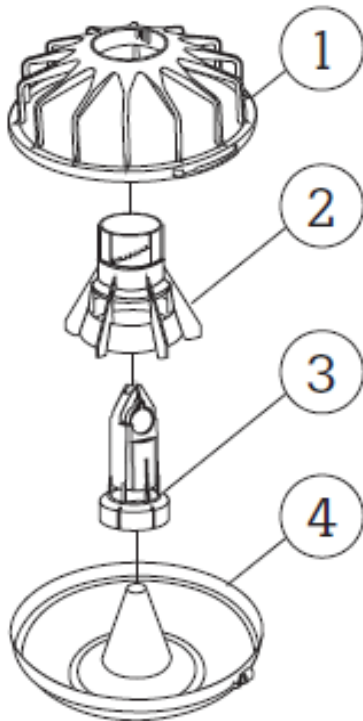
### Removal Top Components

	Item	Figure 1
Cone Support for Removal Top	1	HS8000-5R
Removal Top	2	HS8000-6R

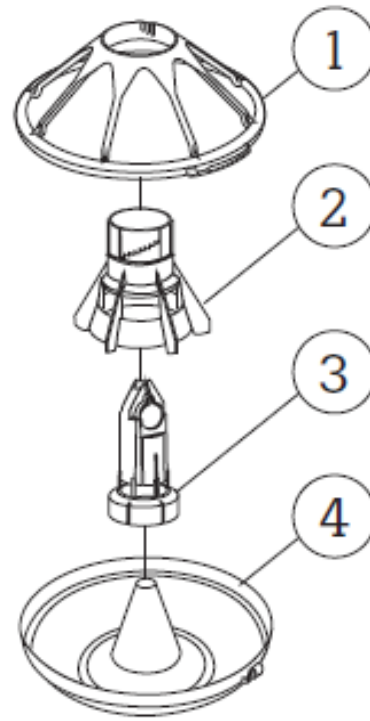


# Classic Flood Feeder Options – Pan Standard Cone 1 Piece Drop Tube

Option #1



Option #2



Option #1 HS8000 14 Spoke Grill, Standard Fin

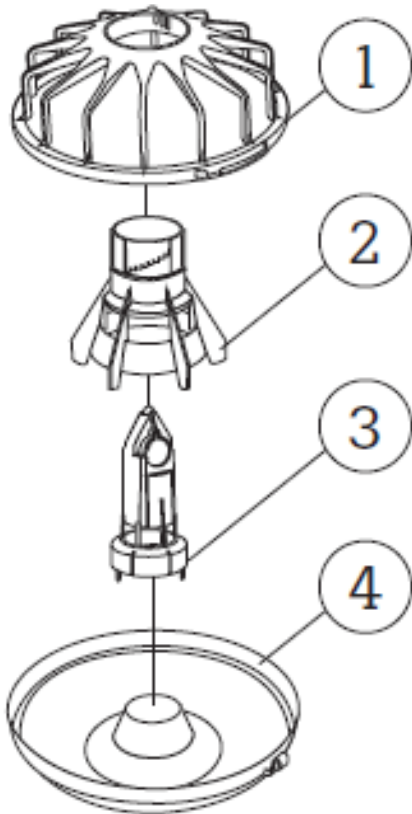
<u>Key</u>	<u>Part#</u>	<u>Description</u>
1	HS8000-2	Grill 14 Spoke
2	HS8000-3	Adjuster
3	HS8000-4	Support Cone
4	HS8000-1	Pan Standard Cone

Option #2 HS8000A 8 Spoke Grill, Standard Fin

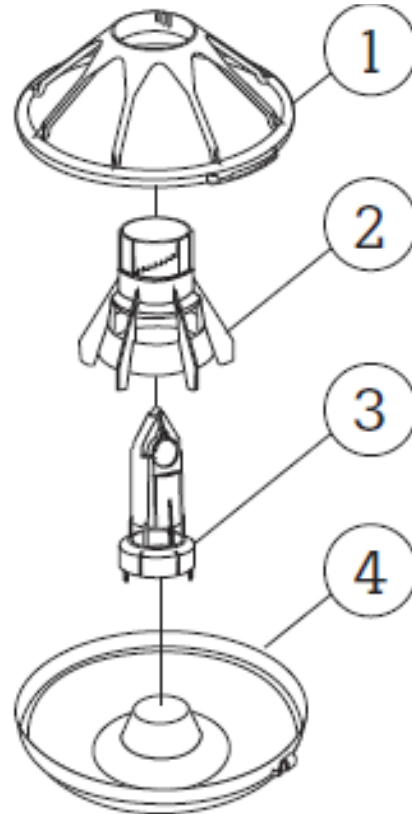
<u>Key</u>	<u>Part#</u>	<u>Description</u>
1	HS8000-8	Grill 8 Spoke
2	HS8000-3	Adjuster
3	HS8000-4	Support Cone
4	HS8000-1	Pan Standard Cone

# Classic Flood Feeder Options – Pan Shallow Cone 1 Piece Drop Tube

**Option #3**



**Option #4**



**Option #3 HS8000B 14 Spoke Grill, Extended Fin**

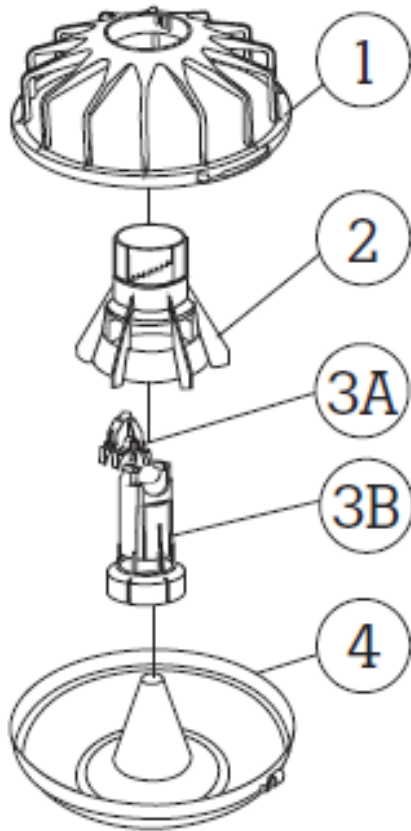
<u>Key</u>	<u>Part#</u>	<u>Description</u>
1	HS8000-2	Grill 14 Spoke
2	HS8000-3F	Adjuster with Fins
3	HS8000-4F	Support Cone with Fins
4	HS8000-7	Pan Shallow Cone

**Option #4 HS8000C 8 Spoke Grill, Extended Fin**

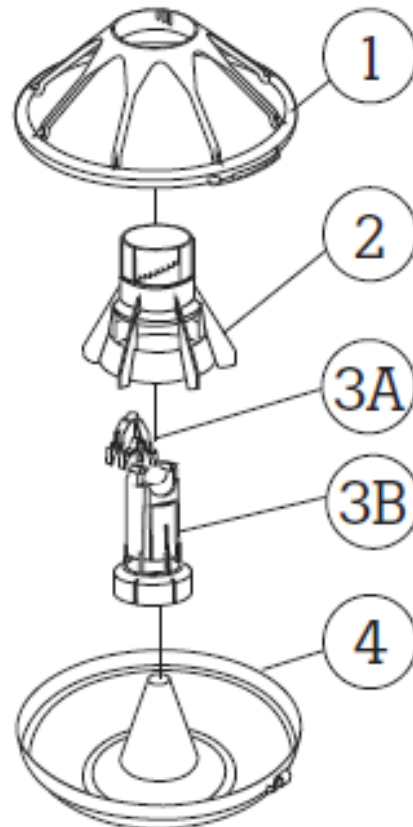
<u>Key</u>	<u>Part#</u>	<u>Description</u>
1	HS8000-8	Grill 8 Spoke
2	HS8000-3F	Adjuster with Fins
3	HS8000-4F	Support Cone with Fins
4	HS8000-7	Pan Shallow Cone

# Classic Flood Feeder Options – Pan Standard Cone 2 Piece Drop Tube

Option #5



Option #6



Option #5 HS8000D 14 Spoke Grill, Standard Fin

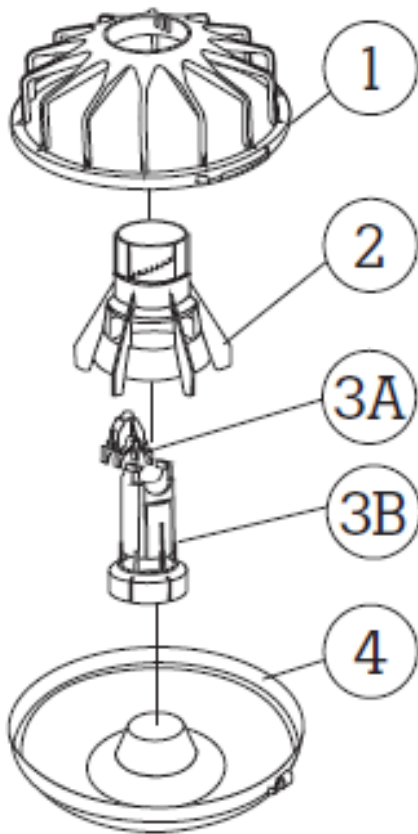
Key	Part#	Description
1	HS8000-2	Grill 14 Spoke
2	HS8000-3	Adjuster
3A	HS8000-6R	Removal Top Support Cone
3B	HS8000-5R	Support Cone Removal Top
4	HS8000-1	Pan Standard Cone

Option #6 HS8000E 8 Spoke Grill, Standard Fin

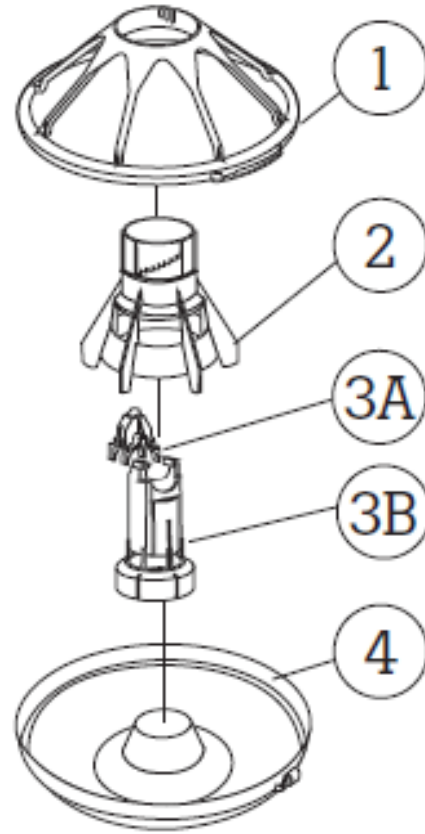
Key	Part#	Description
1	HS8000-8	Grill 8 Spoke
2	HS8000-3	Adjuster
3A	HS8000-6R	Removal Top Support Cone
3B	HS8000-5R	Support Cone Removal Top
4	HS8000-1	Pan Standard Cone

# Classic Flood Feeder Options – Pan Shallow Cone 2 Piece Drop Tube

**Option #7**



**Option #8**



**Option #7 HS8000F 14 Spoke Grill, Extended Fin**

<u>Key</u>	<u>Part#</u>	<u>Description</u>
1	HS8000-2	Grill 14 Spoke
2	HS8000-3F	Adjuster with Fins
3A	HS8000-6R	Removal Top Support Cone
3B	HS8000-5R	Support Cone Removal Top
4	HS8000-7	Pan Shallow Cone

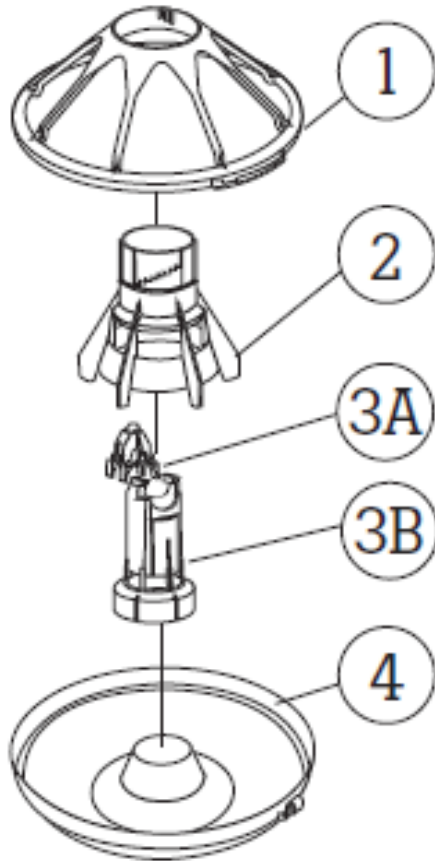
**Option #8 HS8000G 8 Spoke Grill, Extended Fin**

<u>Key</u>	<u>Part#</u>	<u>Description</u>
1	HS8000-8	Grill 8 Spoke
2	HS8000-3F	Adjuster with Fins
3A	HS8000-6R	Removal Top Support Cone
3B	HS8000-5R	Support Cone Removal Top
4	HS8000-7	Pan Shallow Cone

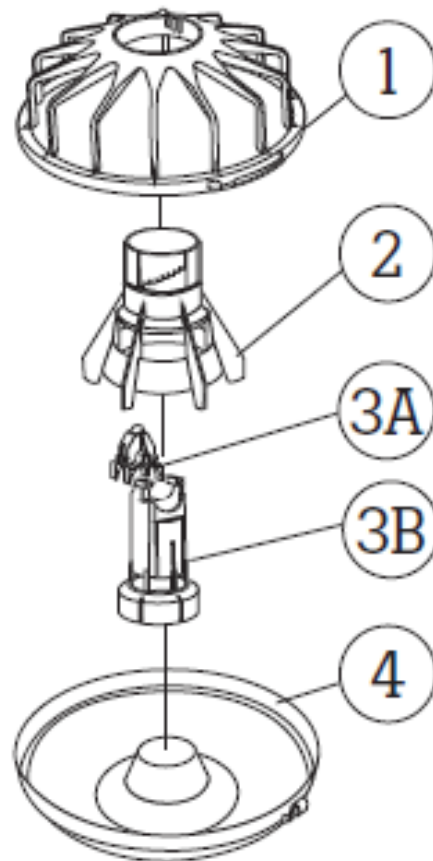
# Classic Flood Feeder Options – Pan Shallow Cone

## 2 Piece 45mm Drop Tube

Option #9



Option #10



Option #9 HS8000I 8 Spoke Grill, Standard Fin

Key	Part#	Description
1	HS8000-8	Grill 8 Spoke
2	HS8000-3	Adjuster
3A	HS8000-10	Removal Top 45mm
3B	HS8000-9	Support Cone 45mm
4	HS8000-7	Pan Shallow Cone

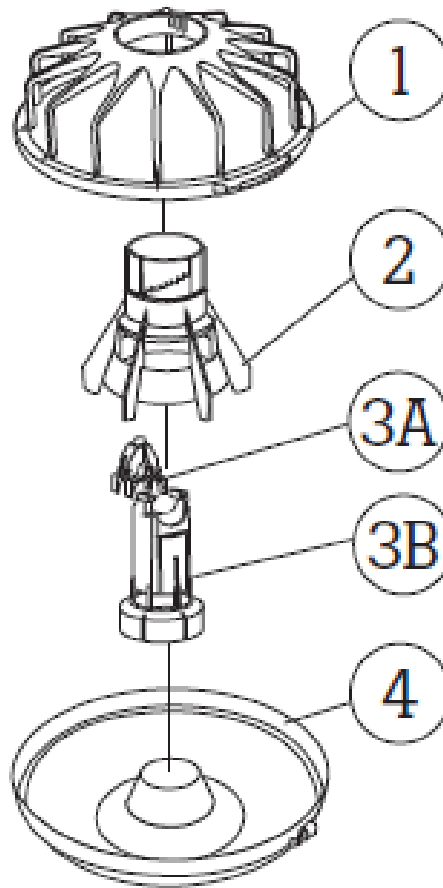
Option #10 HS8000M 14 Spoke Grill, Standard Fin

Key	Part#	Description
1	HS8000-2	Grill 14 Spoke
2	HS8000-3	Adjuster
3A	HS8000-10	Removal Top 45mm
3B	HS8000-9	Support Cone 45mm
4	HS8000-7	Pan Shallow Cone

# Classic Flood Feeder Options – Pan Shallow Cone

## 2 Piece 45mm Drop Tube

### Option #11

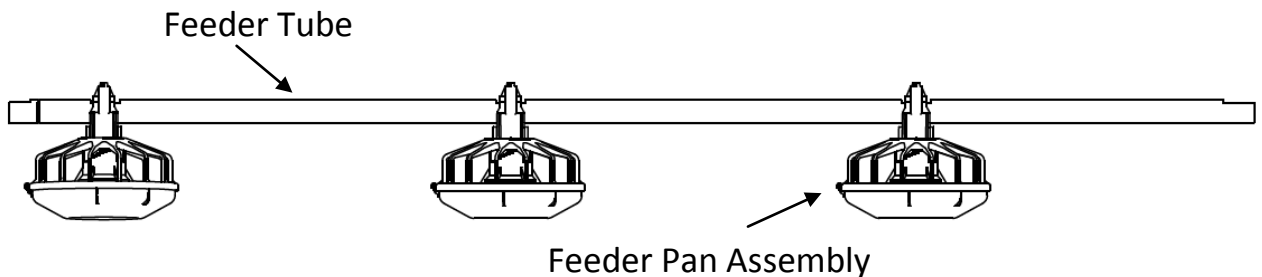


### Option #11 HS80000 14 Spoke Grill, Extended Fin

<u>Key</u>	<u>Part#</u>	<u>Description</u>
1	HS8000-2	Grill 14 Spoke
2	HS8000-3	Adjuster with Fins
3A	HS8000-10	Removal Top 45mm
3B	HS8000-9	Support Cone 45mm
4	HS8000-7	Pan Shallow Cone

## Feeder Pan and Tube Assembly Process

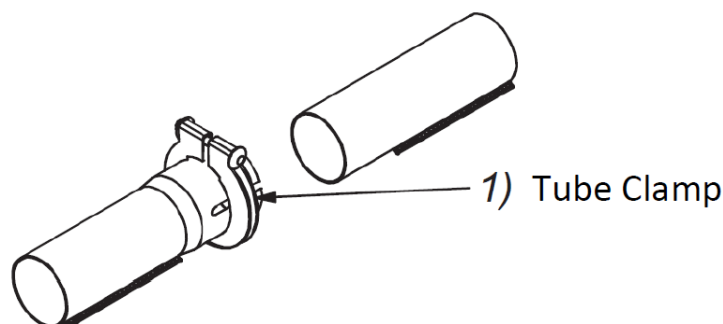
1. Slide one Feeder Pan Assembly per hole onto the auger tubes. **Note:** Install all the feeders on the tube in the same orientation. When sliding the feeders on the tube, make sure the grill openings are on the same side of the tube and the adjustment numbers are positioned toward center of house.
2. Rotate the auger tubes so that the seam is down, this holds the Pan Assemblies in place on the tubes.



## Assemble and Suspend the Feeder Line

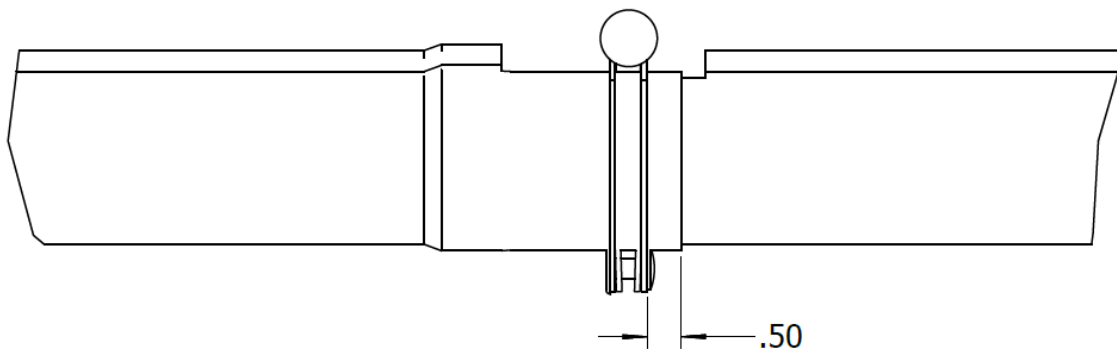
1. The auger tubes and feeders may be laid out end to end in approximately the final location of the line. **The belled end of each tube should be toward the Hopper end of the line.**
2. Connect the individual feeder tubes together by inserting the straight end of one tube as far as possible into the belled end of the next tube.

3. Place a Tube Clamp assembly at each tube joint.





Continue down the entire length of feeder line so that every joint is secured with a tube clamp. Figure below shows the proper location of the tube clamp on the tube joint. Clamp should be placed a minimum of 1/2" from belled end as shown. **Do not tighten the clamp at this time.**



4. Install the Hangers on the feed line tube at 8' or 10' intervals determined by the suspension drop lines. Make sure the outlet drop hole is downward when the Hangers are installed so feed will be allowed to flow into feeder pan.
5. Install Cord Adjuster within 6" of feeder line. Diagram A shows the proper cord routing around the cord adjuster. The small holes are for 1/8" cord and larger holes are for 3/16" cord. Tie knot on end of cord as shown. If using cable drops, Diagram B shows the proper routing of the cable lock adjuster.

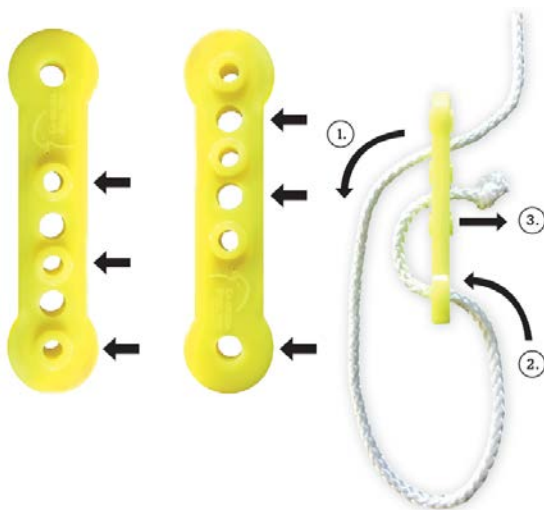


Diagram A

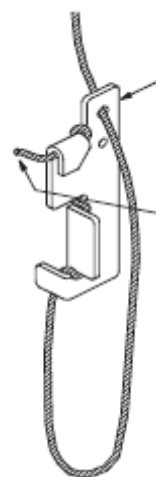


Diagram B



6. Following the installation of all drops, check drop lines before raising the feeder line.
7. Raise the feeder line to a convenient working height.
8. With the feeder line suspended, measure from the floor or ceiling to the auger tubes to level the system.
9. Before tightening each clamp:
  - Make sure each tube is level – no sagging or slopping.
  - Make sure straight end of tube is fully inserted in belled end of next tube.
  - Make sure clamps are located as shown.

Now tighten the Tube Clamps on the feeder tubes. Clamp the joints securely, but do not crush the tubes. Re-adjust all Cord Adjusters as needed and trim off any excess cord.



## Installing the End of Line Control Unit, Poultry Weldment, and Auger

### General Installation Notes:

Make sure that power is disconnected from system prior to servicing.

Installation of this equipment and related OEM equipment should be in accordance with these instructions, OEM's installation instructions and local codes (if applicable). Failure to follow specified instructions may cause damage to equipment and/or personal injury or death.

Take special note of any Warnings or Safety Decals on the equipment and in manuals.

Always wear protective clothing and any applicable Personal Protective Equipment (Safety Glasses and/or Ear Plugs) when working with the equipment.

Discarded materials, equipment and boxes should be recycled in accordance with local and national codes.

**Note: Control Pan is to be wired in accordance with all local, state and national wiring codes. All wiring sizes and fuse capacities are to be sized according to national electrical code specifications or other applicable regulations.**

### Safety Instructions:

Read all safety messages in this manual and on equipment safety decals. Follow recommended precautions and safe operating practices.

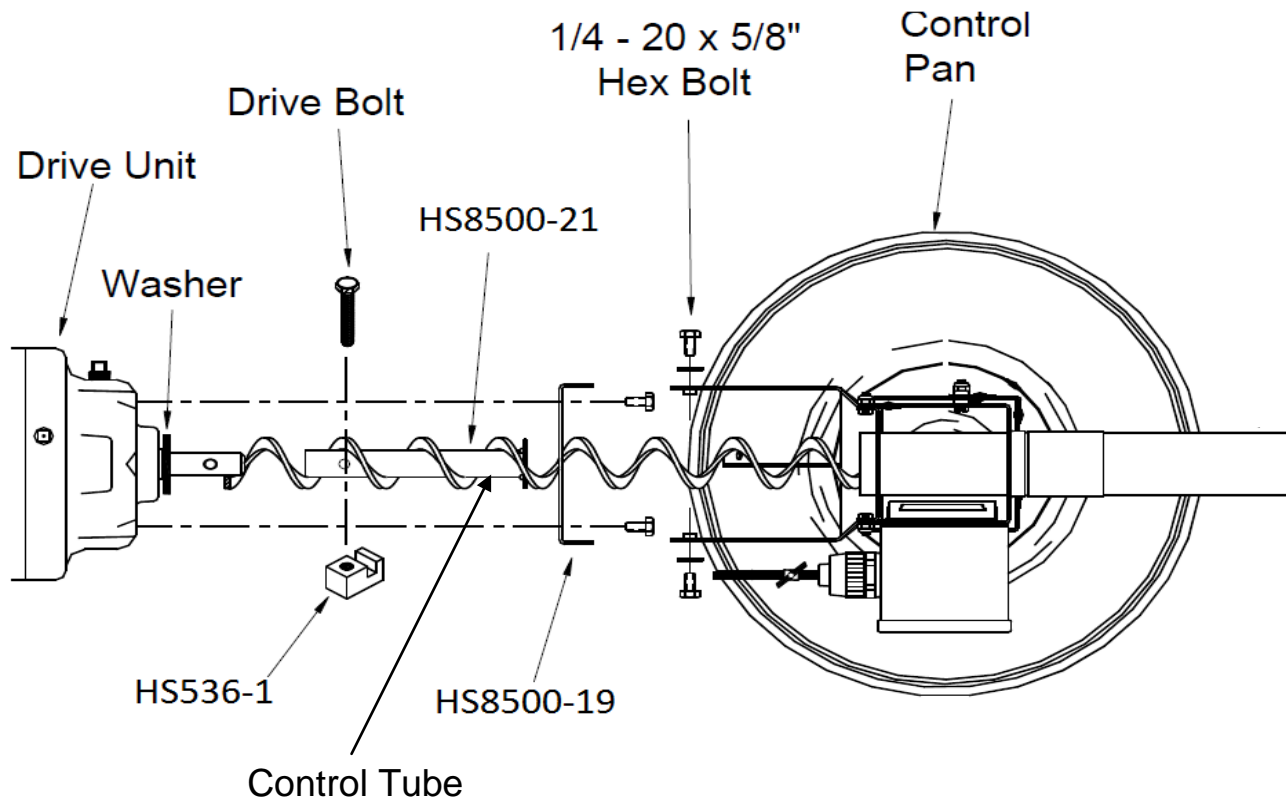
Ground all electrical equipment for safety.

Ground all non-current carrying metal parts to guard against electrical shock.

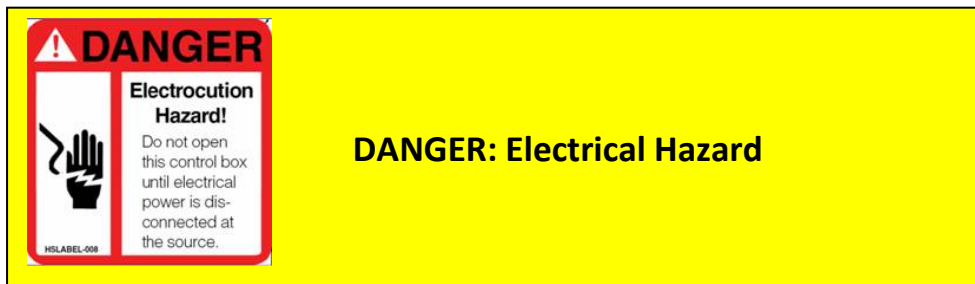
Always keep safety decals in good condition and replace missing or damaged decals.

**Do not connect rigid conduit to control pan enclosure.**

**HS8500 Installation Diagram:**



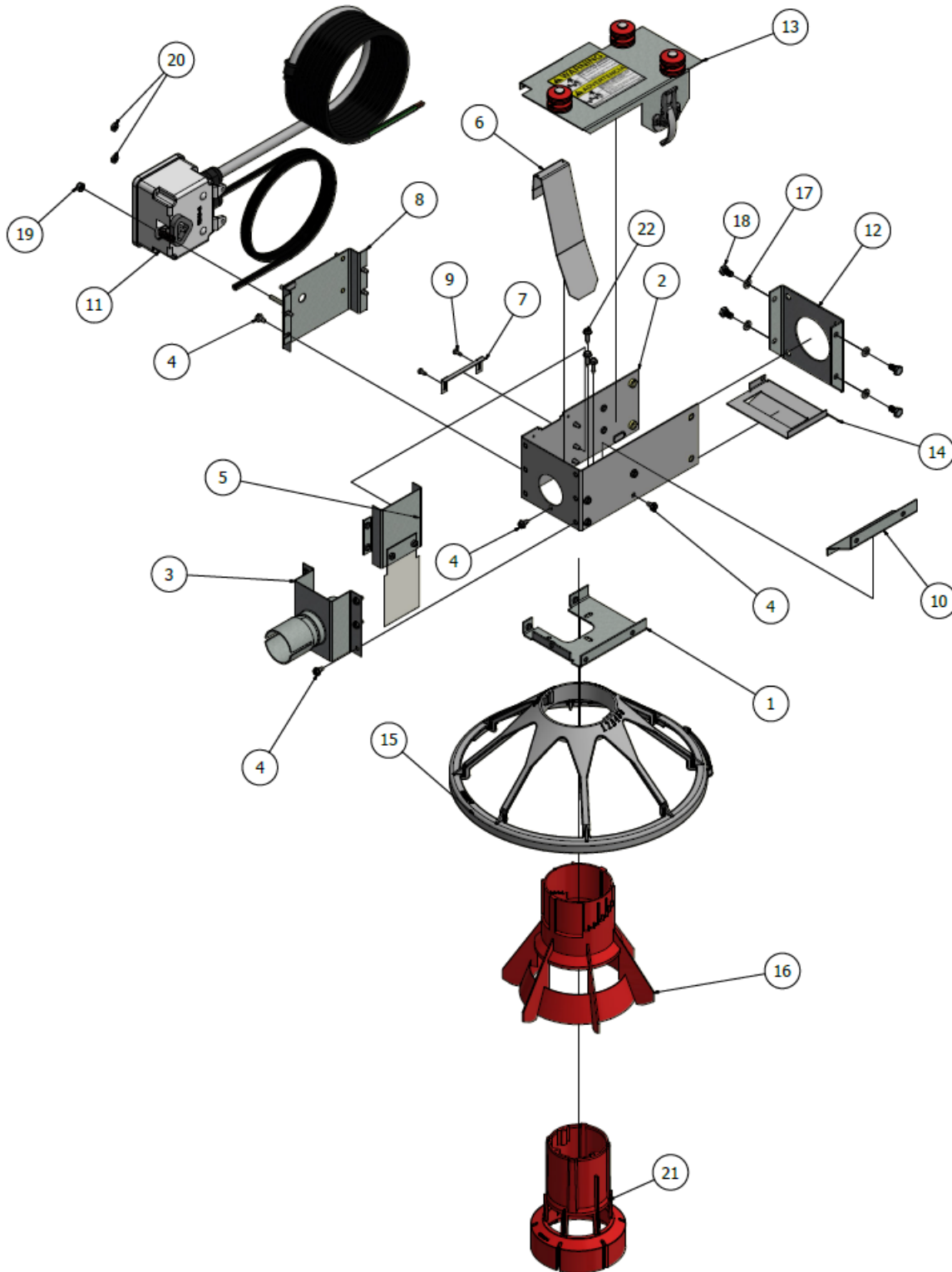
**Wiring:**



**IMPORTANT** Disconnect all electrical power before attempting installation of this (or any equipment), inspecting or servicing.  
 Ground all electrical equipment in accordance with applicable codes. Do not assume equipment will automatically be grounded due to incidental metal-to-metal contact.  
 ALL electrical wiring must be done by a qualified electrician in accordance with local and national electric codes.

**Motor Wiring:** see motor nameplate for wiring instructions.

### HS8500 End of Line Control Pan

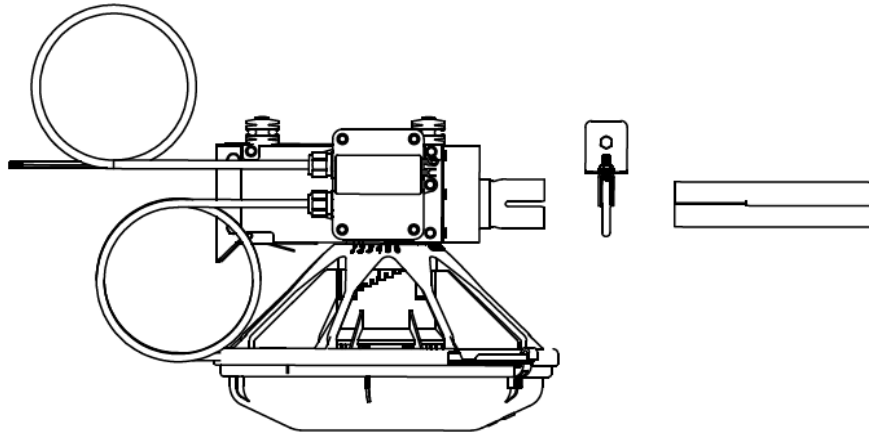


### HS8500 End of Line Control Pan Parts List

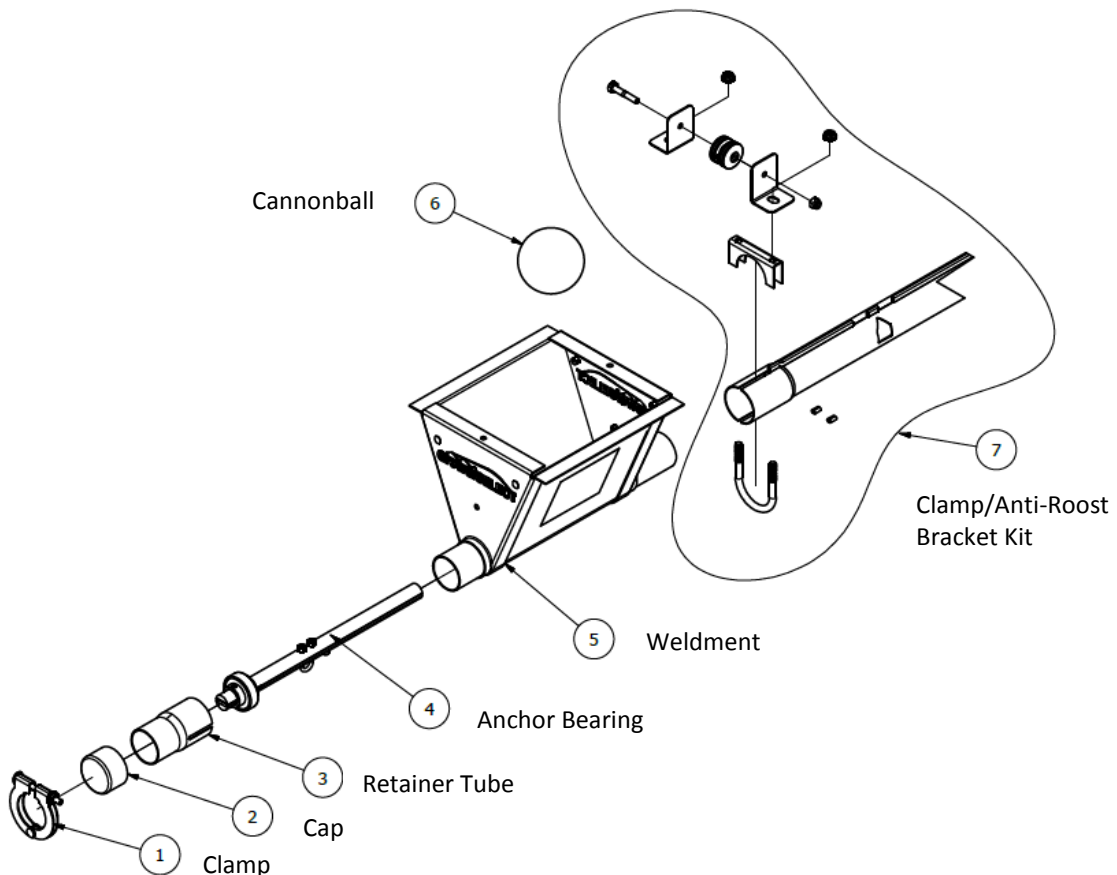
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	HS8500-16	BRACKET COMPLETE, BOTTOM - EOL CONTROL
2	1	HS8500-12	HOUSING COMPLETE, MAIN - EOL UNIT
3	1	HS8500-24	INLET, COMPLETE - EOL CONTROL
4	19	60930	SHW #10-24 X .375 ZP
5	1	HS8500-7	ASSY - PADDLE SHIELD - EOL CONTROL
6	1	HS8500-14	PADDLE, EOL CONTROL
7	1	HS8500-15	BRKT, RETAINER - EOL CONTROL PADDLE
8	1	HS8500-10	BRKT COMPLETE, CONTROL MODULE - EOL CONTROL
9	2	5289024	SCREW, 6-20 X .250 PAN HEAD TAPPING
10	1	HS8500-31	BRKT COMPLETE, HOPPER DIVIDER - EOL CONTROL
11	1	HS8250-4	ASSY- CONTROL HOUSING
12	1	HS8500-19	BRKT, DRIVE END - EOL CONTROL
13	1	HS8500-34	COVER ASSY, HOPPER - EOL CONTROL
14	1	HS8500-18	REAR SHIELD, HOPPER - EOL CONTROL
15	1	HS8000-2	GRILL, 14 SPOKE CHICKEN FEEDER
16	1	HS8000-3	CONE, ADJUSTMENT CHICKEN FEEDER
17	4	60596	WASHER, LOCK, HELICAL, 1/4 ZP
18	4	60500	HHC, 1/4-20 X .50 LG ZP
19	1	1121010500	NUT, HEX, NYLOC #10-32 UNF
20	2	60911	NUT, HEX, #10-32, ZINC
21	1	HS8500-37	CONE, SUPPORT MODIFIED - EOL CONTROL
22	3	60925	SCREW, 10-16 X .75 HEX TYPE B
	1	WNY25-1	WIRE NUT, YELLOW - CSA CERTIFIED

**\*ALTERNATE GRILL HS8000-8. 8 SPOKE  
PAN HS8000-7**

The End of Line Control (EOL) Unit must be at least 10 feet from the end of the building to allow birds access around the end of the feeder line.



1. Assemble the EOL unit to the Feeder Line Tube using a tube clamp. **DO NOT INSTALL THE POWER UNIT AT THIS TIME.**
2. Install the Poultry Weldment by sliding the straight end of the weldment into the belled end of the feeder tube. Install a clamp/anti-roost bracket on the bell and tighten. **DO NOT INSTALL ANCHOR BEARING AT THIS TIME.**



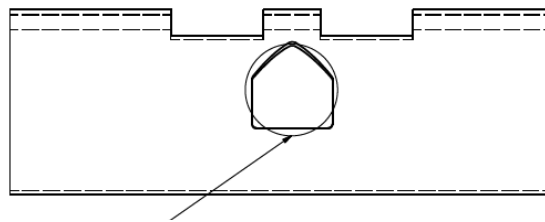


## HS8250 Mid-Line Control Pan

The Mid-Line Control makes it possible to operate the feeding system when birds are confined away from the End of Line Control Unit. Place the Mid-Line Control feeder at least 2 pans away from the curtain or partition.

1. **New Feeder Lines:** Leave one feeder pan assembly off the feeder tube at the point where the Mid-Line Control needs to be placed. The feeder line can be assembled and suspended before attaching the Mid-Line Control. The Mid-Line Control can be attached to the feeder line when the other pans are installed.  
**Existing Feeder Lines:** Cut the Grill Support and remove the feeder pan at the location where the Mid-Line Control will be installed.

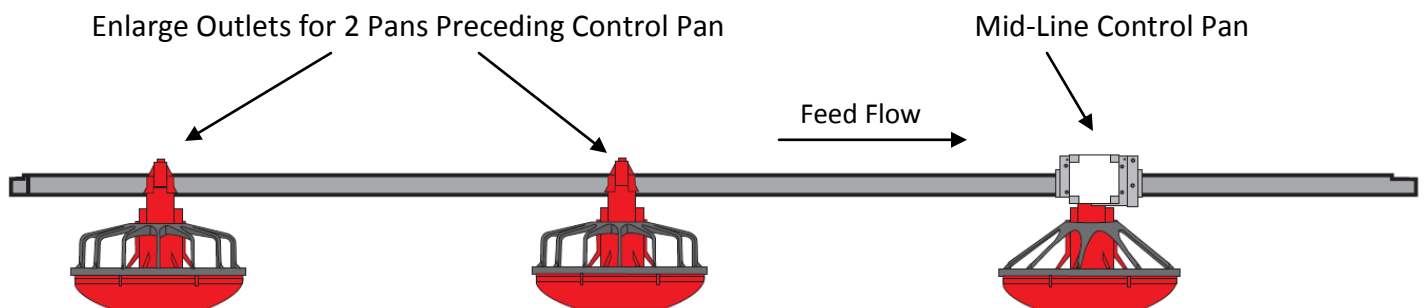
### New & Existing Feeder Line Tube Modifications:



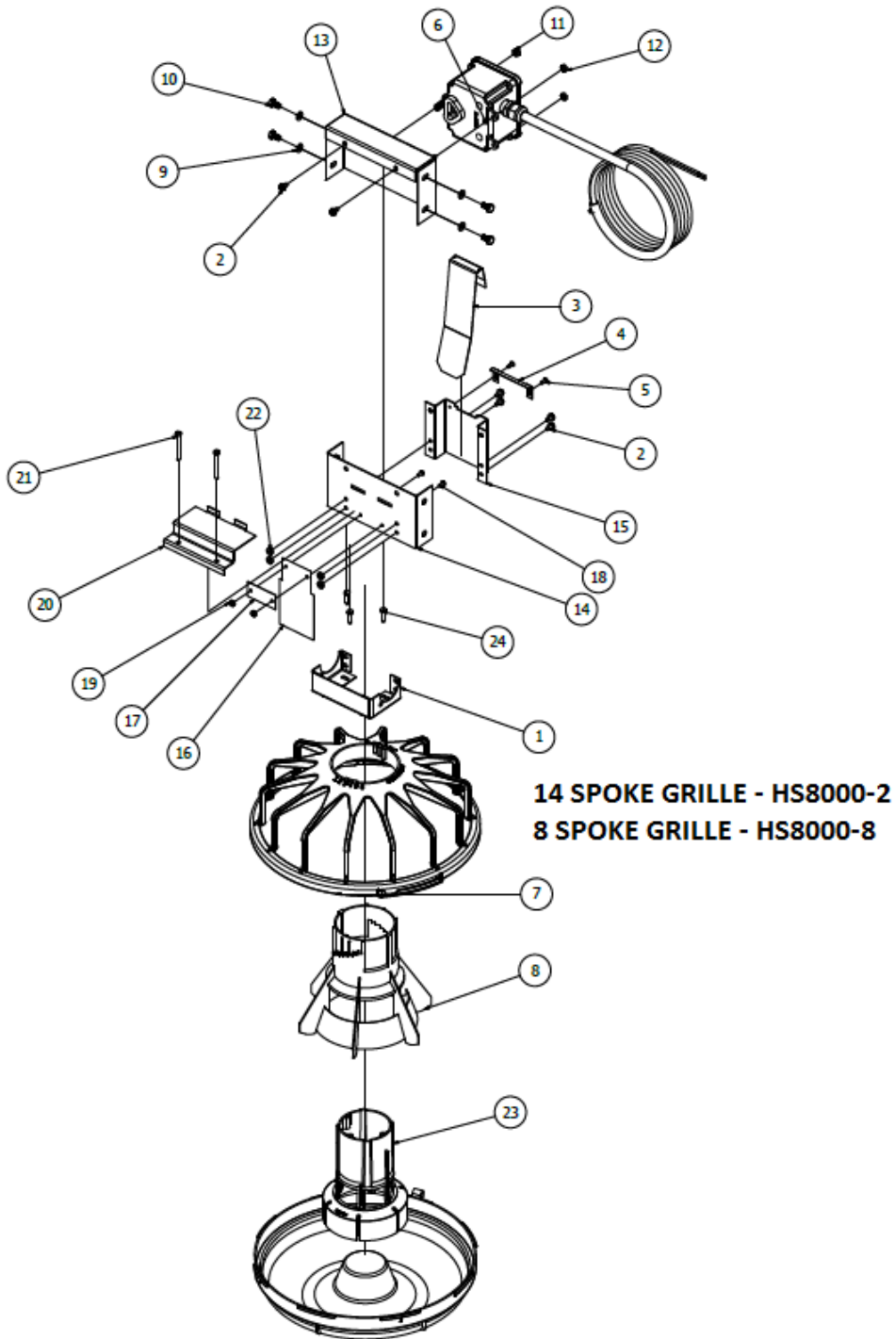
**Before mounting Mid-Line control pan, enlarge feed outlet to approximately 1.00" using a step drill bit. Also, enlarge two outlets preceding the control pan. All burrs inside the tube must be removed.**

### 2. Install the Mid-Line Control:

- a. Remove the two hex head screws on the control top
- b. Lift off the control top
- c. Cradle the feeder tube in the control housing. The feeder tube may have to be turned slightly to allow the pan to hang straight.
- d. Clamp the control in place by inserting tabs on the control top into the slots on the control body. Install and tighten the two hex head screws previously removed.



# HS8250 Mid-Line Control Pan



**HS8250 Mid-Line Control Pan Parts List:**

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	HS8250-6	Bracket Mounting Assembly
2	6	60930	Screw 10-24 X .375 Hex Head Washer Unslotted Zinc
3	1	HS8500-14	Paddle Control
4	1	HS8500-15	Control Paddle Bracket Retainer
5	2	5289024	Screw, 6-20 x.250
6	1	HS8250-4	Assembly, Control Housing
7	1	HS8000-2	Grill, 14 Spoke Chicken Feeder
8	1	HS8000-3	Cone Adjuster-Classic Flood Feeder
9	4	60596	Washer Lock 1/4"
10	4	60500	Bolt 1/4-20 X 1/2" Zinc
11	1	1170858	Nut Nylok SS 10-32
12	2	60911	Nut, Hex, 10-32 Zinc
13	1	HS8250-13	Bracket Housing Assembly
14	1	HS8250-11	Bracket Shield Mount Assembly
15	1	HS8250-8	Bracket Flapper Assembly
16	1	HS8500-28	Paddle Shield
17	1	HS8500-27	Plate Retainer
18	2	609210	Screw 6-32 X 5/16" Zinc
19	2	60912	Nut Hex Machine Screw #6-32 Zinc
20	1	HS8250-10	Cover, Mount
21	2	10C175MUHZ	Hex Head Unslotted 10-24 X 1-3/4" Zinc
22	4	10CNMAZ	Nut 10-24 Hex Zinc
23	1	HS8500-37	Cone Support EOL Control
24	3	60925	Screw 10-16 x .75 Hex Head Zinc

**\*ALTERNATE GRILL HS8000-8. 8 SPOKE  
PAN HS8000-7**

# GrowerSELECT Poultry Feed Auger Installation & Pre-Tensioning Procedure



Severe personal injury will result, if the electrical power is not disconnected, prior to installation or servicing.

Always wear protective clothing and protective glasses when working with auger. Use extreme caution when working with Poultry Feed auger. The auger is under tension and may spring back causing severe injury. Keep your hands away from the end of the auger tube to avoid injury when pushing the auger into the auger tubes

Handle the auger very carefully. Dropping the rolls of auger may cause the auger to kink. Do not install an auger that has a kink in it. The kink will cause the auger to wear the tube at that spot. If the kink cannot be straightened with pliers, the kink must be cut out and the auger brazed back together.

Two (2) people are recommended to install the Poultry Feed auger. One person will feed the auger into the tubing while the other person verifies the auger is not damaged. Make sure no foreign objects enter into the tubing.

1. Beginning at the unloader, push the auger into the auger tube through the rear of the unloader until the auger reaches the control unit at end of the line.
2. Attach the auger to the driver by rotating the driver and threading the auger through the anchor clamp.
3. Rotate the auger so that it is fully engaged on the Driver. Tighten the screws securely to clamp the auger to the control unit.
4. Cut off auger approximately 6 inches past unloader.
5. Run system without anchor bearing or feed in the line for 15 minutes. After 15 minutes, lock out power to drive unit.
6. Pull on the cut end of the auger at the unloader a couple of times until it begins to stretch, and then release it slowly. This will relax the auger to its natural length.

STEPS 5 & 6 ARE IMPORTANT BECAUSE IT WILL ALLOW NEW AUGER TO FIND ITS NATURAL LENGTH PRIOR TO STRETCHING PROCESS.

7. While the auger is relaxed, mark the auger where it exits the unloader. For single bin system, stretch the auger 2 inches for every 50 feet of system length. If it is a tandem

system, stretch the auger 4 inches for every 50 feet. Mark and cut the auger at that stretched length.

Note: For ease of cutting, pull the auger an additional 6 to 8 inches from unloader and use locking pliers to secure the auger prior to cutting.

8. If more than one coil is required for each feeder line, the auger ends will have to be brazed together.

## Auger Brazing

If the auger needs to be spliced or lengthened, locate the brazed joint closer to the power unit to minimize feed flow restriction in the line.

To align the auger for brazing, lay it in angle iron and clamp securely.

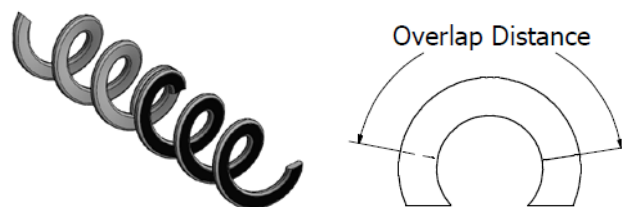
Rotate the auger to allow both the inside and outside edges of the augers to be brazed.

Place the ends of the auger against each other. **DO NOT SCREW ONE AUGER INSIDE THE OTHER** - This restricts the feed flow.

Figure below and the associated chart specify how far to lap the augers.

A bronze, flux-coated rod is recommended. The joint should be well filled and smooth so that it does not wear against the tube. Allow the joint to air cool.

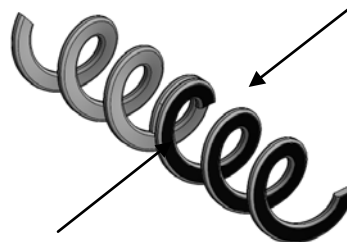
File the auger edges, as shown, to avoid damage to the auger tubes. Also, file off any brazing that extended beyond the outside radius of the auger flightings.



Auger Brazing

### Auger Overlap Distance

<b>Model 44</b>
<b>1.0" to 1.125"</b>
<b>25 to 29 mm</b>



File all sharp edges at brazed connections.

9. With locking pliers still attached, insert auger over the anchor and through the Auger Clamp until auger touches Anchor Bearing. Figure 18 shows the proper assembly of the Model 44 unloader components. Torque the set screw into Auger Clamp 10-12 ft.-lbs. Over tightening the set screw may cause damage to the Auger Clamp.

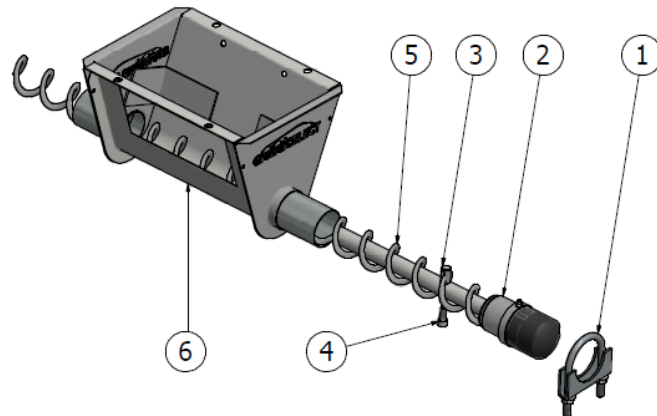


Figure 18. Model 44 Anchor and Bearing Installation

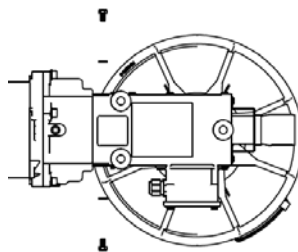
- 1 Anchor Bearing Clamp
- 2 Anchor Bearing
- 3 Auger Clamp
- 4 Screw for securing auger to the anchor
- 5 Auger
- 6 Unloader

Some of the Unloader Models have Anchor and Bearing Assemblies with Restrictors that may be shortened, if necessary, to increase capacity.

10. Carefully remove the locking pliers and attach the Anchor Bearing Assembly to the Unloader with Anchor Bearing Clamp.

11. Place a HS527 cannonball into the unloader.

12. Attach the Gearhead Assembly to the EOL unit using 1/4-20 X 1/2' bolts and lock washers as shown.



## **GrowerSELECT Poultry Feed Auger Run-in Procedure**

All Installations of Hog Slat's Poultry Feed Auger should be Run-in using the following procedure. This procedure applies to new installations as well as just auger replacement in existing auger tubing. This also assumes that the recommended auger pretension procedure is complete.

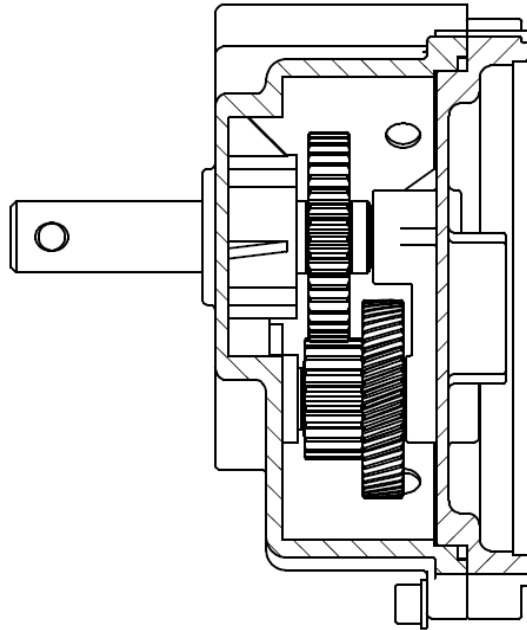
1. Close the slide on the unloader.
2. Run the system dry for 15 - 30 minutes. While the system is running, close all drops except for the one furthest from the feed bin.
3. After dry run-in, leave the system running while slowly opening the slide 1" to 1-1/2". Allow feed to enter the system for 1 minute (approximately 50 pounds of feed), and then close the slide.
4. Go to the last drop and wait for all the feed in the line to exit the system.
5. Repeat steps 3 and 4 three additional times until feed is clean and dry.

This process removes the manufacturing grease and oil from auger and tubes. Failure to completely remove grease and oil will result in excessive feed build up causing auger to plug and bind.

6. At this point the auger system is ready to be run normally, with the slide in the fully open position.

# HSGR Series Gearheads

## Specifications, Parts List & Pinion Specifications



### Gearhead Naming Designation

<u>Part Number</u>	<u>Description</u>
<b>HSGR001</b>	<b>Gear Head 352/290 RPM at 60/50 Hz-58</b>

Output RPM with Motor Running at 60 Hz      Output RPM with Motor Running at 50 Hz      Output Shaft Diameter (5/8")

All Output RPMs are based on a standard 1725 RPM input motor running at either 60 Hz (1725 RPM) or 50 Hz (1425 Rpm).



# Gearhead Specifications Chart

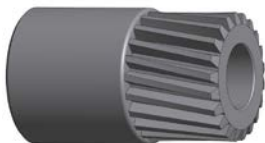
The chart below provides Gearhead specification information for the various GrowerSelect applications (fill systems, feeders, etc).

Gearhead	Output Shaft Size	Motor Hz	Motor RPM	Output RPM	Primary Applications
HSGR001	5/8	60	1725	352	M55 & Poultry
HSGR002	7/8	60	1725	352	M75, M90, M125
HSGR005	7/8	60	1725	216	Power Winch
HSGR006	7/8	60	1725	441	M75, M90, M125
HSGR006	7/8	50	1425	364	M75, M90, M125, Primarily used in Europe 50 Hz
HSGR007	5/8	60	1725	441	M55 & Poultry
HSGR007	5/8	50	1425	364	M55 & Poultry, Primarily used in Europe 50 Hz
HSGR008	7/8	60	1725	256	M75, Chain Disk, & Extension System
HSGR008	7/8	50	1425	213	M75, Chain Disk, & Extension System, Primarily used in Europe 50Hz
HSGR010	5/8	60	1725	693	Poultry High Speed Drive Units
HSGR010	5/8	50	1475	573	M75, Chain Disk, & Extension System, Primarily used in Europe 50Hz
HSGR016	5/8	60	1725	216	Poultry Feed Line

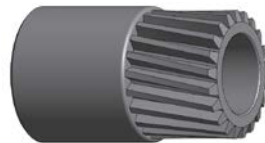
## Pinion Specifications

Pinion	Motor Shaft Size	Gear Head
HSP03	1/2"	HSGR001, HSGR002, HSGR006, HSGR007, HSGR008, HSGR010
HSP04	5/8"	HSGR001, HSGR002, HSGR006, HSGR007, HSGR008, HSGR010
HSP05	1/2"	HSGR005, HSGR016

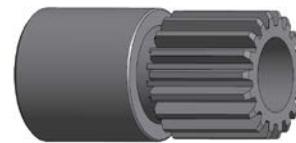
HSP03



HSP04



HSP05



## Gearbox Set-up

The Gearbox is preassembled to motor for the more conventional application with the output shaft at top configuration. If the specific application requires: the gearbox can be rotated 180° so that shaft is at bottom.

**Make sure the solid Hex Plug is always on bottom of Gearbox and Vent Plug is on top of Gearbox.**

Gearbox must be filled with correct amount of specified 80-W90 Gear Oil prior to running system. Please refer to "Maintenance of the Grow-Flex System" on page 70 for details. A bottle of GrowerSELECT oil, is supplied with Drive Unit. It is also available for separate sale at any Hog Slat or Georgia Poultry Retail Store; and on-line.

**Note: Failure to fill Gear Box with proper amount of Gear Oil or failure to use proper Type of Gear Oil can result in premature unit failure.**

After filling Gearbox with proper type and amount of gear oil, vent plug should be assembled to the top of Gearbox.

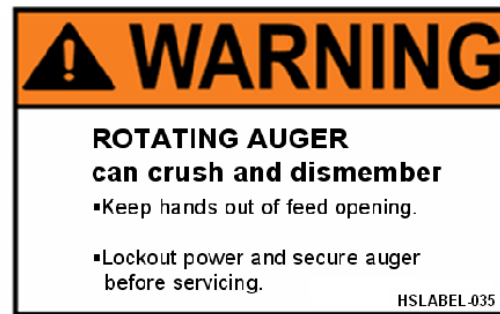
## Anti-Roost Installation

1. Unroll the bulk anti-roost cable. Note: Unroll the cable taking 5 loops of coil with one hand, then changing hands to remove 5 loops as it is unrolled, it will lie flat during installation.
2. Start at the hopper end of the line and form a loop around the anti-roost bracket. For best results, make a double loop around the anti-roost insulator in the center groove of the insulator and fasten with a 1/16" aluminum sleeve.
3. Insert the cable in the insulator on the top of each Grill Support between the hopper and the next anti-roost bracket.
4. Attach a spring in the center groove at the second anti-roost bracket and cut the cable at this point.
5. Thread the end of the cable through the end of the spring. Pull the cable tight so that there is 3/4" to 1" of stretch in the spring. Clamp the cable to form a loop and cut off any excess.
6. Attach the cable to the insulator. For best results, make a double loop around the anti-roost insulator in the center groove of the insulator and fasten with a 1/16" aluminum sleeve.
7. Run the cable to the next insulator, attach a spring in the center groove at the anti-roost bracket and cut the cable at this point. The cable should be positioned in the insulator built into the top of each grill support along the feeder line.
8. Repeat the installation until the anti-roost cable is installed along the entire feeder line.
9. At the control unit, after clamping the cable to the spring, cut the cable about 8" to 10" longer than necessary. Feed the end of the cable through the center of the spring around the first insulator on the control unit, and clamp the cable using a 1/16" aluminum sleeve.
10. Install the control rod onto the control unit insulators. Be sure the guard snaps into the retainers molded into the insulators.

## Trouble Shooting the Poultry Feed System

ALWAYS DISCONNECT POWER TO THE SYSTEM WHEN SERVICING OR MAINTAINING THE EQUIPMENT. FAILURE TO DISCONNECT POWER MAY CAUSE INJURY OR DEATH.

Maintenance and repair to the system must be performed by a qualified technician only.



Problem	Possible Cause	Corrective Action
Delivery system will not run.	No power to the system.	Check circuits, fuses, and on-off switches on the equipment.
	Motor overloaded and stopped.	Check for foreign material in the line. Push the motor reset button.
	Safety switch actuated in the Control Unit. (Red pilot light will be lit).	Determine reason for feed packing in the Control Unit. Feed level switch out of adjustment?
Motor overloads after running briefly.	Motor too small.	Use recommended size motor for line length.
	Low voltage (motor runs slow and overheats).	Check line voltage at the motor; use adequate size wire in circuits.
	Foreign object in the auger (motor runs, stalls, and then auger spins in reverse).	Check auger line, pull auger to remove objects.
	Motor wired in reverse (motor runs, stalls, no feed conveyed).	Disconnect power and change wire connections (direct drive power unit shaft at rear of motor turns clockwise).
	Unloader Anchor too tight.	Check for Anchor binding.
	Wet feed being conveyed or allowed to stand in auger tubes. Defective motor (over heats with- out load).	Clean auger and tubes; avoid conveying wet feed or empty line after each feeding. Replace motor.

<b>Problem</b>	<b>Possible Cause</b>	<b>Corrective Action</b>
Motor runs, but auger does not turn.	Sheared driver bolt at Control Unit.	Replace driver bolt.
	Broken power unit pinion.	Examine pinion on motor shaft; replace BOTH gear head and pinion if pinion is damaged.
Auger wears holes in tubes.	Auger kinked or poorly brazed.	See Auger Brazing section in this manual
Elbows wear out.	Auger is stretched too tight; horizontal L.H. turn; auger has been running dry.	Lengthen auger; Install an Extension Hopper.
Excessive auger vibration and noise.	System has been operated too often without feed (auger has scored the auger tubes).	Replace damaged auger tubes; be sure auger has proper amount of stretch.
	Tubes inadequately supported.	Support the tubes every 5' (1.5 m) or closer.
	Horizontal L.H. turn.	No outlet drops on or just before an elbow; lengthen the auger; install an Extension Hopper ahead of elbows.
Fill system short cycles.	Control end feed level switch does not provide large enough feed differential.	Use a time clock to program operating cycles. Use Control end feed level switch w/lockout and time clock.

## Maintenance of the Poultry Feed System

The Poultry Feed Delivery System requires minimum maintenance. However, a routine periodic inspection of the equipment will prevent unnecessary problems.

Maintenance should be done by a qualified technician.

**ALWAYS DISCONNECT POWER TO THE SYSTEM WHEN SERVICING OR MAINTAINING THE EQUIPMENT. FAILURE TO DISCONNECT POWER MAY CAUSE INJURY OR DEATH.**



1. Periodically check and tighten the delivery system hardware.
2. Apply grease to anchor bearing fittings regularly, using an automotive or industrial type grease.
3. Keep the Poultry Auger tubes level. Adjust if necessary. Wear increases at the points where tubes sag.
4. Replace the Plastic Shipping Plug in the power unit gear head with the Vented Plug during installation of the Power Unit.
5. Check the oil level in the gear heads at installation and every 6 months. The Pipe Plug, on the side of the gear head, indicates proper oil level. Add HS450 (80-W90 gear oil) when necessary.

**The oil in the gear heads should be replaced every 12 months with new HS450 gear oil.**

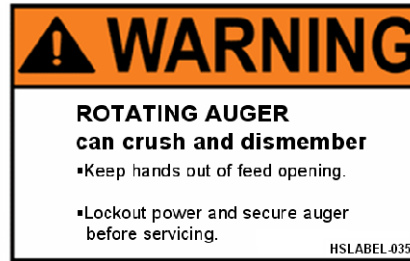
- A. Remove the bottom Pipe Plug to drain the oil. Discard used oil in accordance with local and national codes.
- B. Wipe any debris off the bottom Pipe Plug and reinstall. Remove the side Pipe Plug and (top) Vent Plug.
- C. Set the power unit in the horizontal position.
- D. 2-Stage Gear Heads: Add approximately 9 oz. (266 ml) of HS450 gear oil through top hole. This should be just enough oil to reach the side Pipe Plug.

3-Stage Gear Heads: Add approximately 13 oz. (384 ml) of HS450 gear oil through top hole. This should be just enough oil to reach the side Pipe Plug.

- E. Install the side Pipe Plug and (top) Vent Plug.

6. If the system is not to be used for an extended period of time, remove all the feed from the auger lines.

Disconnect power to the system to prevent accidentally starting the system.



7. If the system must be disassembled, extreme caution must be used to prevent injury from springing auger.

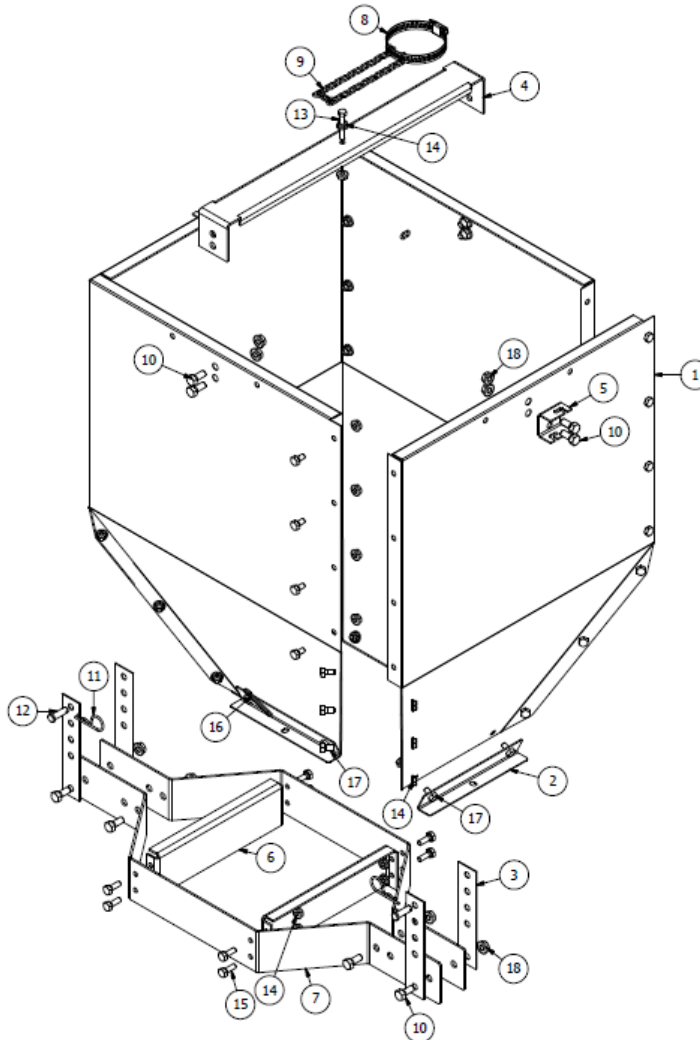
- A. Disconnect power to the entire system.
- B. Pull the Anchor Bearing Assembly and approx. 18" (45 cm) of auger out of the unloader.
- C. Place a clamp or locking pliers on the auger to prevent it from springing back into the auger tubes.
- D. Remove Anchor Bearing Assembly.
- E. Carefully release the clamp securing the auger.

**CAUTION: Stand clear...the auger will spring back into the tubes.**

F. Remove remaining system components in the opposite order they were installed, according to this manual



**HS569-120 120 Pound Feed Line Hopper**



**Figure 1**

**HS569-120**

REF#	QTY	PART #	DESCRIPTION	REF#	QTY	PART #	DESCRIPTION
1	4	HS569-1	SIDE SHEET, HOPPER, 120#	10	12	60508	Hex Bolt 5/16-18 X 0.75"
2	4	HS569-4	BRACKET, BOOT HANGER	11	2	606351	Cotter Hairpin 0.093" Dia X 2"
3	4	HS569-3	BRACKET, HOPPER ADJUSTMENT	12	2	60802	Clevis Pin 5/16 X 1.06"
4	1	HS569-7	Top Brace 120#	13	1	616510	Plain Hex Head Machine Screw 1/4-20 X 1.5"
5	2	HS569-8	Cable Guide Bracket	14	46	60577	Hex Flange Nut 1/4-20
6	2	HS569-10	Suspension Brace	15	8	60501	Hex Bolt 1/4-20 X 0.75"
7	2	HS569-9	Suspension Bracket Small	16	1	60699	Cotter Pin 3/16 X 2.0"
8	1	FP28030076	Hose Clamp 1-7/8" To 5" 1/2" Band	17	36	60500	Hex Bolt 1/4-20 X 0.5"
9	1	60673	Chain #2 Bowtye Weldless Zinc 12" Long	18	12	60624	Hex Flange Nut 5/16-18





**HS569-200**

REF#	QTY	PART #	DESCRIPTION	REF#	QTY	PART #	DESCRIPTION
1	4		SIDE SHEET, HOPPER, 200#	10	13	60508	Hex Bolt 5/16-18 X 0.75"
2	4		BRACKET, BOOT HANGER	11	2	606351	Cotter Hairpin 0.093" Dia X 2"
3	4		BRACKET, HOPPER ADJUSTMENT	12	2	60802	Clevis Pin 5/16 X 1.06"
4	1		Top Brace 200#	13	1	616510	Plain Hex Head Machine Screw 1/4-20 X 1.5"
5	2		Cable Guide Bracket	14	54	60577	Hex Flange Nut 1/4-20
6	2		Suspension Brace	15	8	60501	Hex Bolt 1/4-20 X 0.75"
7	2		Suspension Bracket Large	16	1	60699	Cotter Pin 3/16 X 2.0"
8	1	FP28030076	Hose Clamp 1-7/8" To 5" 1/2" Band	17	44	60500	Hex Bolt 1/4-20 X 0.5"
9	1	60673	Chain #2 Bowtye Weldless Zinc 12" Long	18	13	60624	Hex Flange Nut 5/16-18
				19	2		Support Hopper Angled 200#

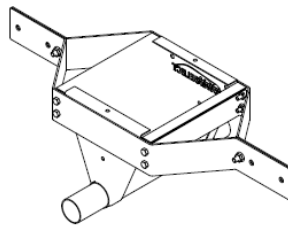
**HS569-300**

REF#	QTY	PART #	DESCRIPTION	REF#	QTY	PART #	DESCRIPTION
1	4		SIDE SHEET, HOPPER, 300#	10	13	60508	Hex Bolt 5/16-18 X 0.75"
2	4		BRACKET, BOOT HANGER	11	2	606351	Cotter Hairpin 0.093" Dia X 2"
3	4		BRACKET, HOPPER ADJUSTMENT	12	2	60802	Clevis Pin 5/16 X 1.06"
4	1		Top Brace 300#	13	1	616510	Plain Hex Head Machine Screw 1/4-20 X 1.5"
5	2		Cable Guide Bracket	14	58	60577	Hex Flange Nut 1/4-20
6	2		Suspension Brace	15	8	60501	Hex Bolt 1/4-20 X 0.75"
7	2		Suspension Bracket Large	16	1	60699	Cotter Pin 3/16 X 2.0"
8	1	FP28030076	Hose Clamp 1-7/8" To 5" 1/2" Band	17	48	60500	Hex Bolt 1/4-20 X 0.5"
9	1	60673	Chain #2 Bowtye Weldless Zinc 12" Long	18	13	60624	Hex Flange Nut 5/16-18
				19	2		Support Hopper Angled 300#



### Assembly:

1. Assemble (4) Side Sheet Hopper Panels (Ref# 1) as shown above in Figure 1 using Hex Bolts 1/4-20 X 0.5" (Ref# 17) and Hex Flange Nuts 1/4-20 (Ref# 14). Hand Tighten
2. Attach (4) Boot Hanger Brackets (Ref# 2) to the outside of the hopper body as shown above in Figure 1 using Hex Bolts 1/4-20 X 0.5" (Ref# 17) and Hex Flange Nuts 1/4-20 (Ref# 14). Hand Tighten
3. Attach (2) Cable Guide Brackets (Ref# 5) to outside of hopper body as shown above in Figure 1 using Hex Bolts 5/16-18 X 0.75" (Ref# 10) and Hex Flange Nuts 5/16-18 (Ref# 18). Hand Tighten
4. Attach Top Brace (Ref# 4) to outside of hopper body as shown above in Figure 1 using Hex bolts 5/16-18 X 0.75" (Ref# 10) and Hex Flange Nuts 5/16-18 (Ref# 18). Hand Tighten
5. Loosely assemble (2) Suspension Brackets (Ref# 7) and (2) Suspension Braces (Ref# 6) as shown above in Figure 1 using Hex Bolts 1/4-20 X 0.5" (Ref# 17), Hex Flange Nuts 1/4-20 (Ref# 14), Hex bolts 5/16-18 X 0.75" (Ref# 10) and Hex Flange Nuts 5/16-18 (Ref# 18).
6. Position assembled Suspension Brackets and Suspension Braces around the body of the Unloader as shown in Figure 3 below. Hand Tighten.



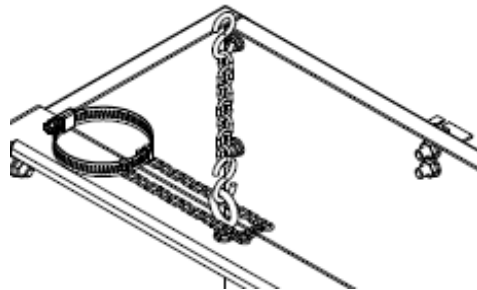
**Figure 3**

7. Attach (4) Hopper Adjustment Brackets (Ref# 3) as shown above in Figure 1 using Hex bolts 5/16-18 X 0.75" (Ref# 10) and Hex Flange Nuts 5/16-18 (Ref# 18). Hand Tighten.
8. Suspend Lower Assembly using Clevis Pins (2) (Ref# 12) and Hairpins (2) (Ref# 11) from feed system support cables.
9. Slide bottom of hopper body into upper channel of the Unloader and secure with Cotter Pin (Ref# 16) as shown above in Figure 1.
10. Redirect suspension cables to travel through Cable guide bracket to provide lateral support.
11. Attach Hose Clamp (Ref# 8) to Top Brace (Ref# 4) using 1/4-20 X 1.5" Machine Screw (Ref# 13), Hex Flange Nuts 1/4-20 (Ref# 14), and Chain (Ref# 9).

**Single Point Suspension:**

**HS569-120 120 Pound Hopper**

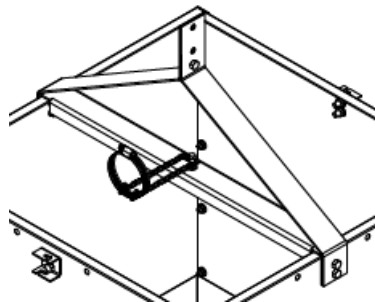
If hopper requires only 1 point suspension included Eye Bolt can be attached to Top Brace to provide a contact point for single point suspension as shown in Figure 4 for 120 Pound Hopper.



**Figure 4**

**HS569-200, HS569-300 200 & 300 Pound Hoppers**

If hopper requires only 1 point suspension Angled Support Brackets (Ref# 19) can be attached around the Top Brace to provide a contact point for single point suspension as shown in Figure 5 for 200 and 300 Pound Hoppers.



**Figure 5**

## Replacement Parts List

Part Image	Part Number	Description
	HS532	Boot Weldment Poultry Single
	HS533	Boot Weldment Poultry Twin
	HSAB45UP	Anchor Bearing Feed Line Model 45 U
	HSFA-44	Auger Flexible 44mm Grower Select
	HSPFT175-409	Tube Poultry Feed 1.75 4 On 9'
	HSPFT175-410	Tube Poultry Feed 1.75 4 On 10'
	HSPFT175-809	Tube Poultry Feed 1.75 8 On 9'


	<p>HSPFT175-810</p>	<p>Tube Poultry Feed 1.75 8 On 10'</p>
	<p>HS577</p>	<p>Kwik-Start Chick Feeder Drop</p>
	<p>HS597</p>	<p>Switch Assembly Hopper Level Control</p>
	<p>HS8000</p>	<p>Classic Flood Feed Pan</p>
	<p>HS8250</p>	<p>Mid-Line Control Pan</p>
	<p>HS8500</p>	<p>End of Line Control Pan</p>
	<p>HS8501</p>	<p>G-Logic Control Pan</p>



	<p>HS614</p>	<p>Tube Bracket Control Unit</p>
	<p>HSH022</p>	<p>Feed Line Hanger</p>
	<p>HSH023</p>	<p>Feed Line Hanger</p>
	<p>HSH024</p>	<p>Feed Line Clamp</p>
	<p>HS532-15</p>	<p>Clamp / Insulator Kit</p>
	<p>52260-500</p>	<p>Anti-Roost / Shocker Cable</p>
	<p>HS17016</p>	<p>Shocker Spring</p>

	<p>HSCA-1</p>	<p>Feed Line Drop Cord Adjuster</p>
	<p>HSH018</p>	<p>Cable Adjuster</p>
	<p>HS538</p>	<p>Auger Lock and Drive Kit</p>
	<p>HS450</p>	<p>Gear Oil Grower Select</p>
	<p>HS9021D1-P</p>	<p>Drive Unit 1/2HP 352RPM 5/8" Shaft Poultry Feed Line Used on feed lines up to 250 feet</p>
	<p>HS9022D1-P</p>	<p>Drive Unit 3/4HP 352RPM 5/8" Shaft Poultry Feed Line Used on feed lines over 250 feet</p>
	<p>HS9021A</p>	<p>Motor 1/2 HP 115/208-230 Volt 1725 RPM 50/60 Hz 1/2" Shaft Used on Drive Unit HS9021D1-P</p>



	<p>HS9022A</p>	<p>Motor 3/4 HP 115/208-230 Volt 1725 RPM 50/60 Hz 1/2" Shaft</p> <p>Used on Drive Unit HS9022D1-P</p>
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# Hog Slat Limited Warranty

Hog Slat warrants products to be free from defects in material or workmanship for a period of twenty-four (24) months from the date of **original purchase**. Hog Slat will credit, repair, or replace, at its option any product deemed defective within this time period. Labor costs associated with the replacement or repair of the product are not covered by the Seller/Manufacturer.

## Warranty Extension Coverage

The Limited Warranty period is extended for the following products:

GrowerSelect HS8000 Poultry Feeder	5 Years (from the date of installation)
GrowerSelect Feed Line Tube	10 Years (from the date of installation)

## Conditions and Limitations

1. The product must be installed by and operated in accordance with the instructions published by the **Seller/Manufacturer or Warranty will be void**.
2. Warranty is void if **all components** are not original equipment supplied by the **Seller/Manufacturer**.
3. This product must be purchased from and installed by an authorized retailer/distributor or certified representative thereof or the Warranty will be void.
4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under the Warranty.
5. This Warranty applies only to components/systems for the care of poultry and livestock. Other applications in industry or commerce are not covered by this Warranty.
6. This Warranty applies only to the Original Purchaser of the product.

The **Seller/Manufacturer** shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to suffer as a result of any defect in the product. **“Consequential” or “Special Damages”** as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.

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**This equipment must be installed in accordance with all State and Local Codes and applicable Regulations which should be followed in all cases. Authorities having jurisdiction should be consulted before installations are made.**



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Market: Poultry