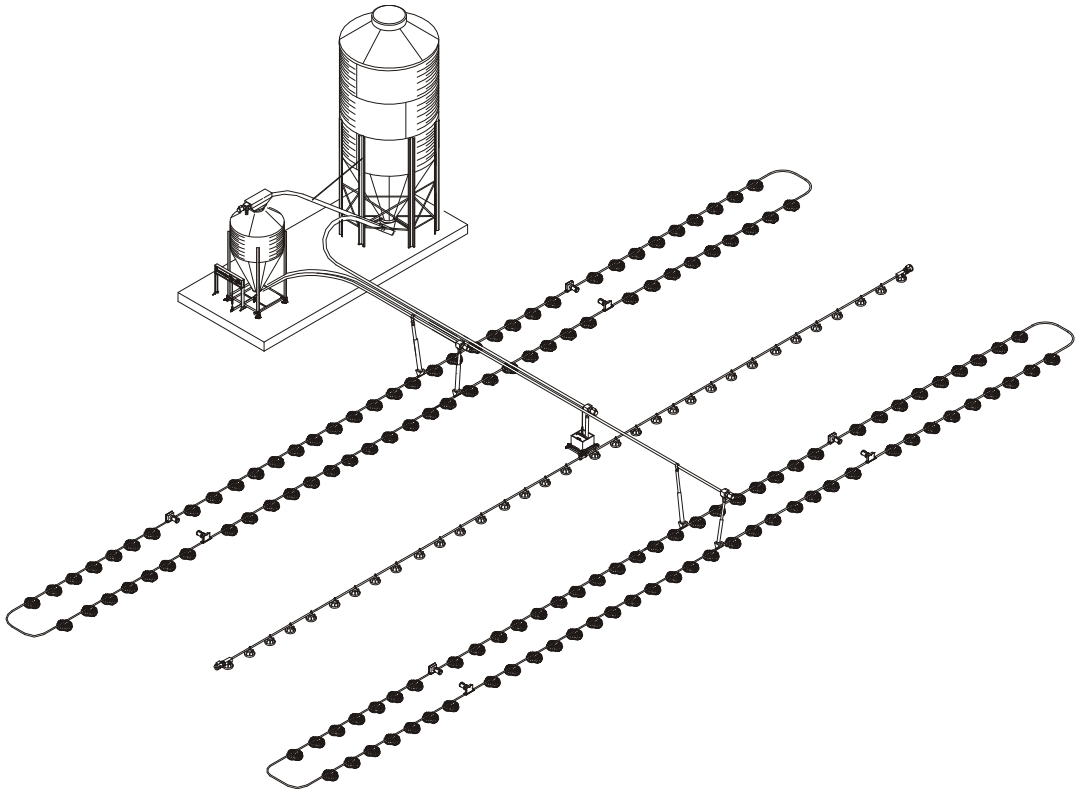
Installation and Operators Manual

GENESIS® Feeding System

Installation and Operation Manual



Installation and Operators Manual

July 2023 MF2322G

Chore-Time Limited Warranty

CTB, Inc. ("Chore-Time") warrants the new CHORE-TIME Products manufactured by Chore-Time to be free from defects in material or workmanship under normal usage and conditions, for One (1) year from the date of installation by the original purchaser ("Warranty"). Chore-Time provides for an extension of the aforementioned Warranty period ("Extended Warranty Period") with respect to certain Product parts ("Component Part") as set forth in the table below. If such a defect is determined by Chore-Time to exist within the applicable period, Chore-Time will, at its option, (a) repair the Product or Component Part free of charge, F.O.B. the factory of manufacture or (b) replace the Product or Component Part free of charge, F.O.B. the factory of manufacture. This Warranty is not transferable, and applies only to the original purchaser of the Product.

Component Part	Extended Warranty Period
RXL Fan (except motors and bearings)	Three (3) Years
TURBO® Fan (except motors and bearings)	Three (3) Years
TURBO® Fan fiberglass housing, polyethylene cone, and cast aluminum blade.	Lifetime of Product
TURBO® fan motor and bearings.	Two (2) Years
Chore-Time® Poultry Feeder Pan	Three (3) Years
Chore-Time® Rotating Centerless Augers (except where used in applications involving high moisture feed stuffs exceeding 17%)	Ten (10) Years
Chore-Time Steel Auger Tubes	Ten (10) Years
ULTRAFLO® Breeder Feeding System auger and feed trough.	Five (5) Years
ULTRAPAN® Feeding System augers .	Five (5) Years

CONDITIONS AND LIMITATIONS

THIS WARRANTY CONSTITUTES CHORE-TIME'S ENTIRE AND SOLE WARRANTY AND CHORE-TIME EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES, INCLUDING, WIHTOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES. CHORE-TIME shall not be liable for any direct, indirect, incidental, consequential or special damages 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. *Some jurisdictions prohibit limitations on implied warranties and/or the exclusion or limitation of such damages, so these limitations and exclusions may not apply to you. This warranty gives the original purchaser specific legal rights. You may also have other rights based upon your specific jurisdiction.*

Compliance with federal, state and local rules which apply to the location, installation and use of the Product are the responsibility of the original purchaser, and CHORE-TIME shall not be liable for any damages which may result from non-compliance with such rules.

The following circumstances shall render this Warranty void:

- Modifications made to the Product not specifically delineated in the Product manual.
- Product not installed and/or operated in accordance with the instructions published by the CHORE-TIME.
- All components of the Product are not original equipment supplied by CHORE-TIME.
- Product was not purchased from and/or installed by a CHORE-TIME authorized distributor or certified representative.
- Product experienced malfunction or failure resulting from misuse, abuse, mismanagement, negligence, alteration, accident, or lack of proper maintenance, or from lightning strikes, electrical power surges or interruption of electricity.
- Product experienced corrosion, material deterioration and/or equipment malfunction caused by or consistent with the application of chemicals, minerals, sediments or other foreign elements.
- Product was used for any purpose other than for the care of poultry and livestock.

The Warranty and Extended Warranty may only be modified in writing by an officer of CHORE-TIME. CHORE-TIME shall have no obligation or responsibility for any representations or warranties made by or on behalf of any distributor, dealer, agent or certified representative.

Effective: **April, 2014**

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Topic Page

About This Manual

The intent of this manual is to help you in two ways. One is to follow step-by-step in the order of assembly of your product. The other way is for easy reference if you have questions in a particular area.

Important: Read ALL instructions carefully before starting construction.

Important: Pay particular attention to all SAFETY information.

- *Metric measurements are shown in millimeters and in brackets, unless otherwise specified.* " " " equals inches and " ' " equals feet in English measurements.
  Examples:
  1" [25.4]
  4' [1 219]

- Optional equipment contains necessary instructions for assembly or operation.

- Very small numbers near an illustration (*i.e.,* 1257-48) are identification of the graphic, not a part number.

Note: The original, authoritative version of this manual is the English version produced by CTB, Inc. or any of its subsidiaries or divisions, (hereafter collectively referred to as "CTB"). Subsequent changes to any manual made by any third party have not been reviewed nor authenticated by CTB. Such changes may include, but are not limited to, translation into languages other than English, and additions to or deletions from the original content. CTB disclaims responsibility for any and all damages, injuries, warranty claims and/or any other claims associated with such changes, inasmuch as such changes result in content that is different from the authoritative CTB-published English version of the manual. For current product installation and operation information, please contact the customer service and/or technical service departments of the appropriate CTB subsidiary or division. Should you observe any questionable content in any manual, please notify CTB immediately in writing to: CTB Legal Department, P.O. Box 2000, Milford, IN 46542-2000 USA.

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 decals immediately.

Using the equipment for purposes other than specified in this manual may cause personal injury and/or damage to the equipment.

Safety–Alert Symbol

This is a safety–alert symbol. When you see this symbol on your equipment, be alert to the potential for personal injury. This equipment is designed to be installed and operated as safely as possible...however, hazards do exist.

Understanding Signal Words

Signal words are used in conjunction with the safety–alert symbol to identify the severity of the warning.

DANGER indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION indicates a hazardous situation which, if not avoided, MAY result in minor or moderate injury.

Safety Instructions

Follow Safety Instructions

Carefully read all safety messages in this manual and on your equipment safety signs. Follow recommended precautions and safe operating practices.

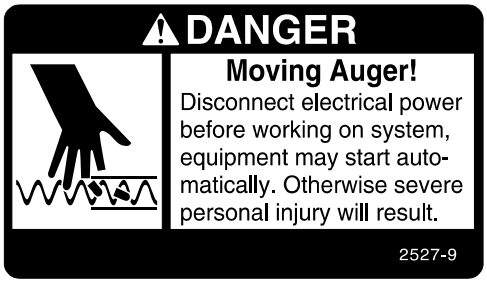
Keep safety signs in good condition. Replace missing or damaged safety signs.

Decal Descriptions

DANGER: Moving Auger

This decal is placed on the Panel Weldment.

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



DANGER: Electrical Hazard

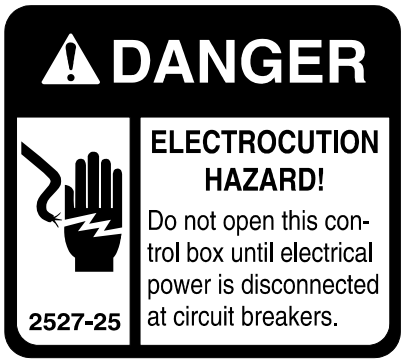
Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically state otherwise.

Ground all electrical equipment for safety.

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

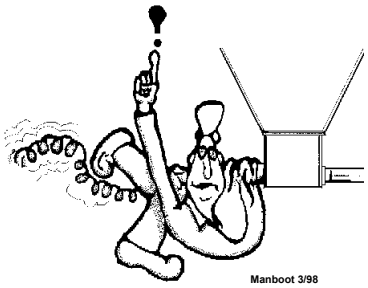
Ground all non-current carrying metal parts to guard against electrical shock.

With the exception of motor overload protection, electrical disconnects and over current protection are not supplied with the equipment.



CAUTION:

Use caution when working with the Auger—springing Auger may cause personal injury.



General

Support Information

The Chore-Time GENESIS® Feeding System has been designed to feed poultry types. Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury.

This manual is designed to provide comprehensive planning and installation information. The Table of Contents provides a convenient overview of the information in this manual.

Manufacturer's Recommendations: Birds per Pan

Type	Max weight and/or weeks of age	Feeders	Number of birds/pan
Broiler Breeder Pullet – rearing	0 – 18 weeks	GENESIS® Pullet	18
Broiler Breeder Pullet – rearing	0 – 18 weeks Hi-Yield	GENESIS® Pullet	18
Broiler Breeder Layer	17 + weeks	GENESIS® Breeder	16
Broiler Breeder Layer	17 + weeks Hi-Yield	GENESIS® Breeder	16

***Notice:** Please be advised that the maximum number of birds that may be successfully produced per feed pan may vary based upon such factors as climate, housing type or style, bird breeds, genetic factors of the birds at issue, grower management practices, etc. All other environmental and management circumstances, such as proper bird density per house, access to adequate nutrients in feed, access to adequate water supply, proper ventilation, adequate health care for the birds, and other similar factors, must meet industry standards and recommendations, if any, of applicable bird breeder companies.

* **NOTICE:** The above Manufacturer's recommendations do not constitute a product warranty and are in no way to be considered as a guarantee of performance for poultry production. In addition, the above information in no way alters or revises the terms and conditions of any applicable Chore-Time manufacturer's warranty.

Planning the System

GENESIS® Pullet Feeder Planning

Carefully planning the system prior to beginning the installation will save time and effort. Refer to the FLEX-AUGER® Fill System manual for fill system installation information and specifications.

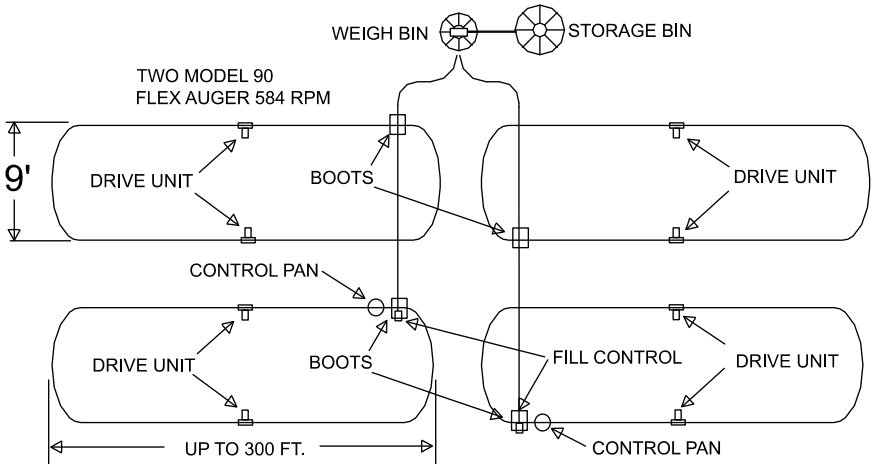
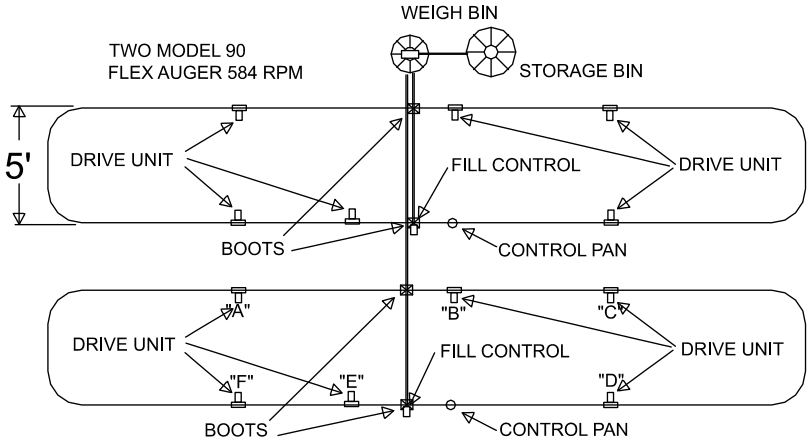


Figure 1.Pullet Feeder Planning

GENESIS® Breeder Feeder Planning



DRIVE UNIT LOCATION	"A"	"B"	"C"	"D"	"E"	"F"
LOOPS UP TO 300 FT.		X			X	
301 TO 450 FT.	X		X		X	
451 TO 600 FT	X		X	X		X
	PULLET 9'		BREEDER 5'			

Figure 2.Breeder Feeder Planning

Figure 1. shows a house with two feeder loops. The line lengths specified for determining power unit placement refer to the distance between the elbows. However, the total system length = line length x 2, plus the elbows (including the tube between the elbows)

The first loop shows the recommended placement of the power units, boots, control pans, and weigh bin.

For line lengths up to 300' *[X m]*, two (2) power units are recommended. The power units should be evenly spaced opposite each other. The power units should be placed in positions "B" and "E", **see figure 1.**

For line lengths from 301' to 450' *[X m],* three (3) power units are recommended. To determine the proper placement of the power units, add the total length of the system, including 3' *[1 m]* for each 90 degree end section and divide by three (3). This will give an approximate distance between power units, round up or down to the nearest suspension drop line. These power units should be staggered (two on one side, one on the other side). The power units should be placed in positions "A", "C", and "E", **see figure 1.**

For line lengths from 451' to 600' *[X m],* four (4) power units are recommended. To determine the proper placement of the power units, add the total length of the system, including 10' *[3 m]* for each 90 degree end section, and divide by four (4).This will give an approximate distance between power units, round up or down to the nearest suspension drop line. The power units should be placed in positions "A", "C", "D", and "F", **see figure 1.**

The control PAN should be located on the RETURN side of the feeder loop NEXT TO THE FILL CONTROL. The control will be installed next to the hopper on the return side of the feeder.

Note: The suspension drop lines are spaced 8' *[2.4 m]* apart all through the system. Systems using 10' *[3 m]* or 12' *[3.6 m]* tubes may be suspended on 10'*[3 m]* centers. Be sure to support the elbows as shown in this manual.

The feeder loop is 9' *[2.7 m]* wide FOR PULLETS and will be 5' *[1.5 m]* FOR BREEDERS.

Fill System Planning

The GENESIS® Feeder will require one Model 90 @584 rpm for two boots. The fill system control will be operated by a drop tube switch. Feed will travel from the control unit to the boot through telescoping drop tubes.

Do Not short cut your fill system

Sample Flex-Auger Layout (Reference Only)

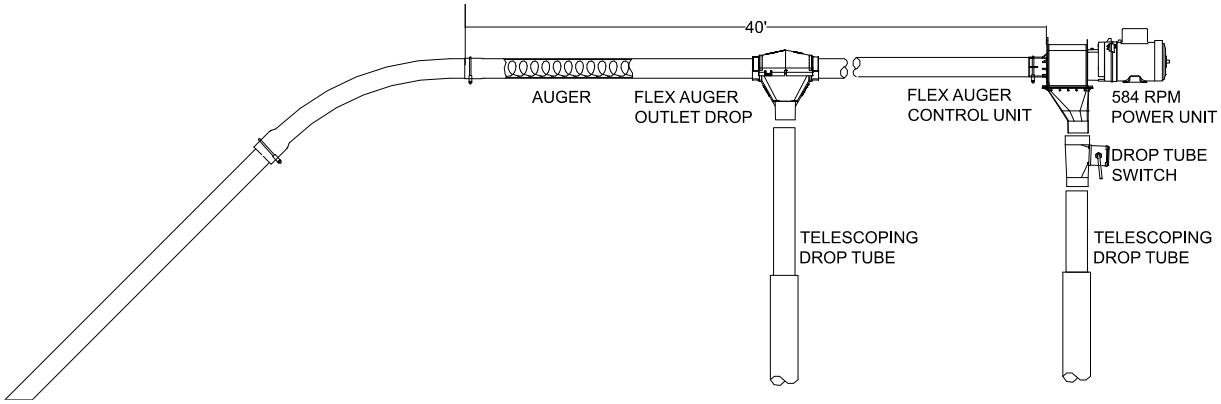


Figure 3.Sample Flex Auger Layout

General Installation Information

Please read the installation instructions in this manual prior to beginning the installation. This manual provides the necessary information on the installation, operation, and maintenance of the Chore-Time feeding equipment you have purchased.

Capacities and specifications

The GENESIS® feeding system utilizes a 129 RPM power unit providing a delivery capacity of approximately 65 pounds per minute per boot. A typical GENESIS® feeder with two boots has a capacity of approximately 130lb. per minute, which requires a high speed 584 rpm Model 90 Flex-auger for feed supply.

The GENESIS® system is available with 10' 3 holes, 10' 4 holes, 12' 3 hole and 12' 4 hole tubes, for versatility of various building sizes, bird types and bird densities.

System weight chart

Use the chart below as a reference guide for determining support load requirements of the feeding system.

Feeder Component	Load
Tube, Auger, Feed & Pan	5.0 lbs/ft *[7.5 kg/m]*
Power Unit	35 lbs *[15.88 kg]*
Feed Boots	25 lbs *[X kg]*

Laying out the Suspension System

1. The feeder line suspension system is a vital part of the feeding system. Proper planning and installation is necessary to insure proper operation of the system. A system weight chart is provided on this page that may be used to determine load requirements.
2. ***Figure 2. on page 8***, shows the proper suspension system for all feeder line lengths. Notice additional support must be provided at each feeder boot, power unit, and elbow location.

   IMPORTANT: Notice the feeder line **MUST BE SUPPORTED WITHIN 1 FOOT *[300 mm]* OF THE FEEDER BOOT AND DIRECTLY ABOVE THE MOTOR ON THE CONTROL UNIT.** If a control unit or feeder boot does not come out directly under a truss, fasten a pulley to a 2 x 8" *[50 x 300 mm]* board or other type of support that will span two (2) trusses.

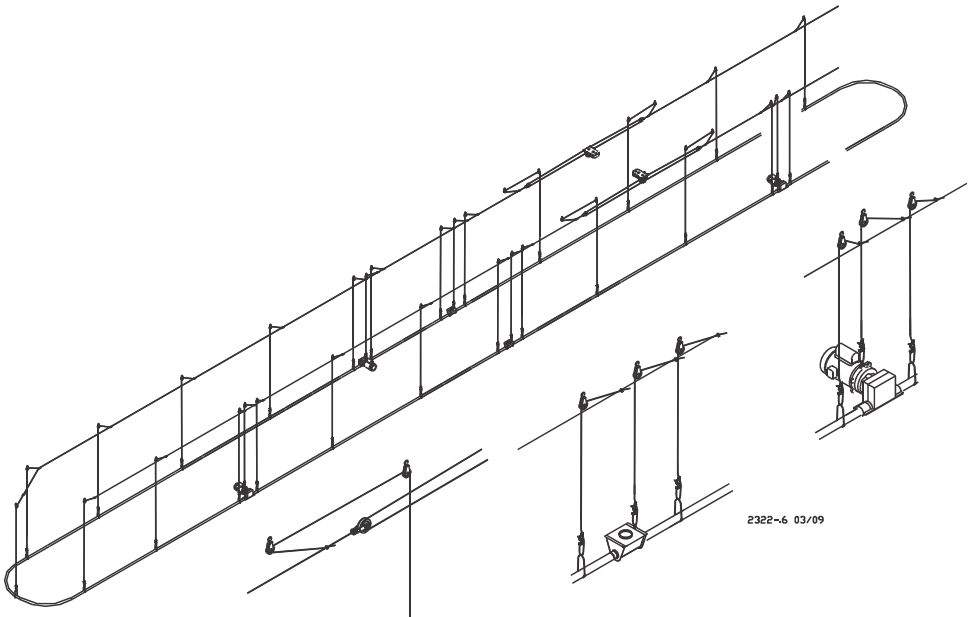


Figure 4. Suspension Layout

Installing the Suspension System

Determine where the feeder line is to be installed. Mark a straight line on the ceiling or trusses 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. Feeder lines over 350'*[107 m]* need to use a double back arrangement on the main cable line, see ***Figure 4. on page 10***.

The recommended distance between suspension drop lines is 8'*[2.4 m]* on center. DO NOT EXCEED 10'*[3 m]* spacing between drop lines.

If the distance raised is greater than the distance between the drop lines, offset the hooks 3"*[75 mm]* to each side of the line to prevent the cable clamps from catching the pulleys, ***see Figure 5.***

For installations using wood trusses, standard screw hooks or the optional ceiling hook may be used to hold the pulley assemblies.

For installations using steel trusses, ceiling hooks are available to hold the pulley assemblies.

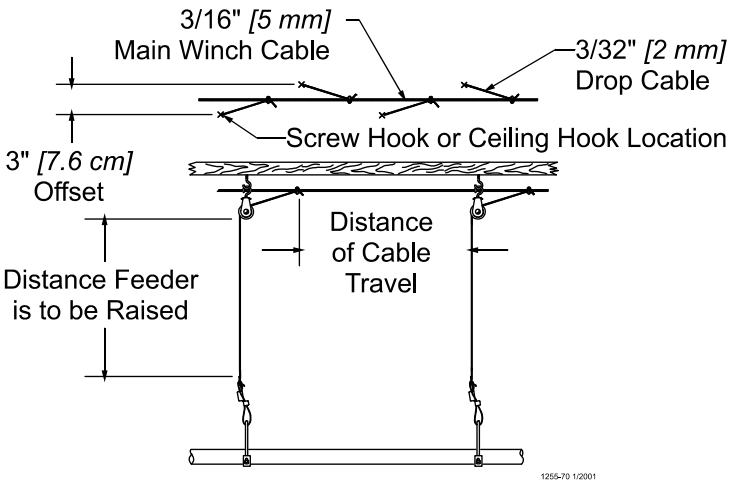


Figure 5. Drop line offset detail

Screw Hook Installation

Screw the hook into the truss the full length of the threads to prevent bending.The opening of the screw hooks must be pointed away from the direction of travel when the winch raises the feeder line.

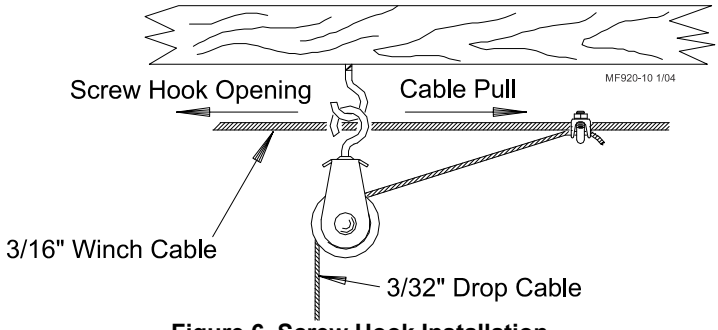


Figure 6. Screw Hook Installation

Ceiling Hook Installation

The ceiling hook may be used in a variety of installations. Depending on your ceiling or rafter type, install the ceiling hooks as shown.

Steel Truss Installations

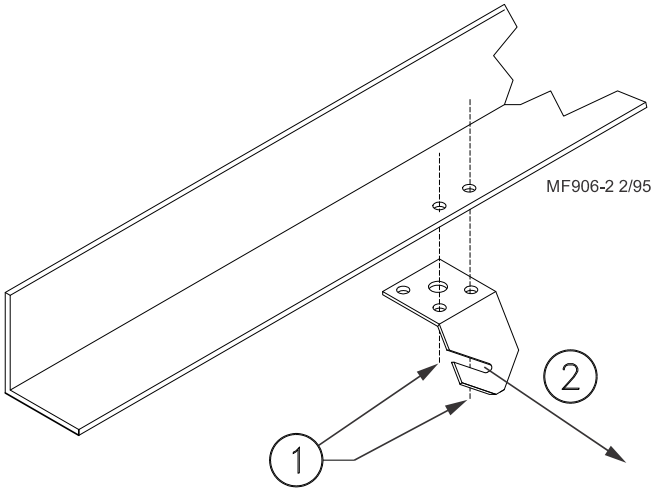


Figure 7. Narrow Steel Truss Ceiling Bracket Installation

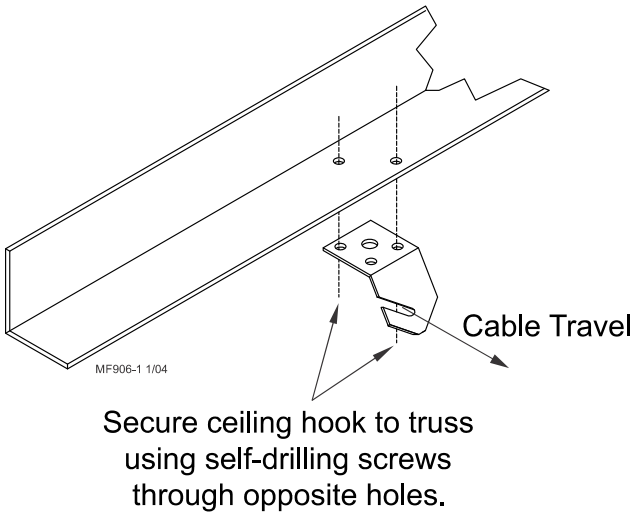


Figure 8. Steel Truss Ceiling Bracket Installation

Steel Truss Welded Installations

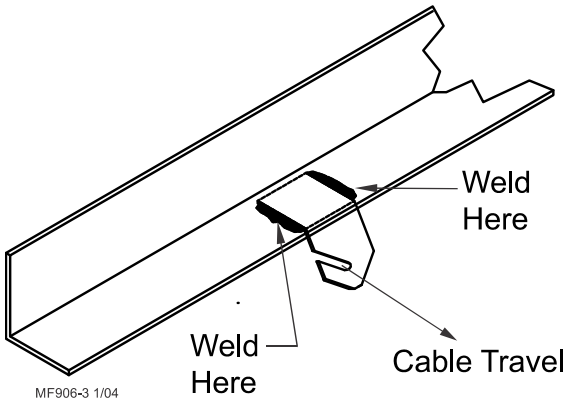


Figure 9. Welded Steel Truss Ceiling Bracket Installation

Wood Truss Installations

1. Secure Ceiling Hook to Truss using a 1/4-20 Lag Bolt through the large center hole.
2. After securing the ceiling hook to the truss, slide the swivel pulley into the slot as shown in **Figure 10.**

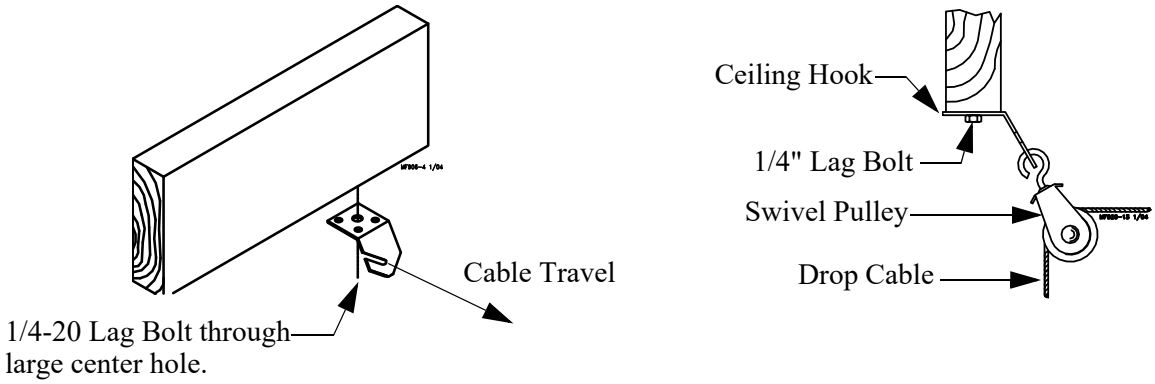


Figure 10. Wood Truss Ceiling Bracket and Pulley Installation

Power Lift Winch Installation

1. Bolt the power winch fully assembled to the power lift winch support, either a 2" x 8" *[50 x 200 mm]* board that will span at least three (3) rafters or a 3/8" *[9.5 mm]* thick steel plate welded to two (2) angle iron pieces each long enough to span at least two (2) rafters, using 5/16-18 supplied hardware. The brake mechanism will extend toward one side.

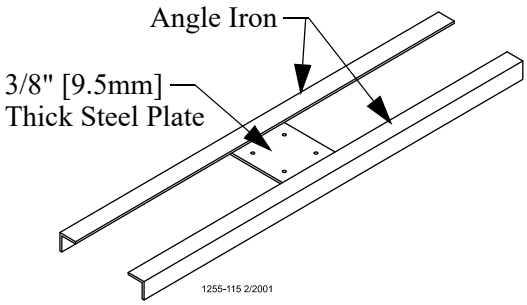


Figure 11. Optional Power Lift Winch Support detail

2. Install a cable hook, supplied in hardware package, between the mounting bolt and power winch frame as shown in **Figure 12.**
3. Attach the power lift winch support (with the winch secured) to the ceiling at the center of the feeder line, **see Figure 12.** The winch support must be parallel to the feeder line and must span at least three (3) rafters in a wood frame house and two (2) rafters in a steel frame house.
   If the boot is located at the center of the feeder line, locate the power winch a few feet offset from the center of the feeder line. However, the winch drum must be directly in line with where the main cable is to be installed.

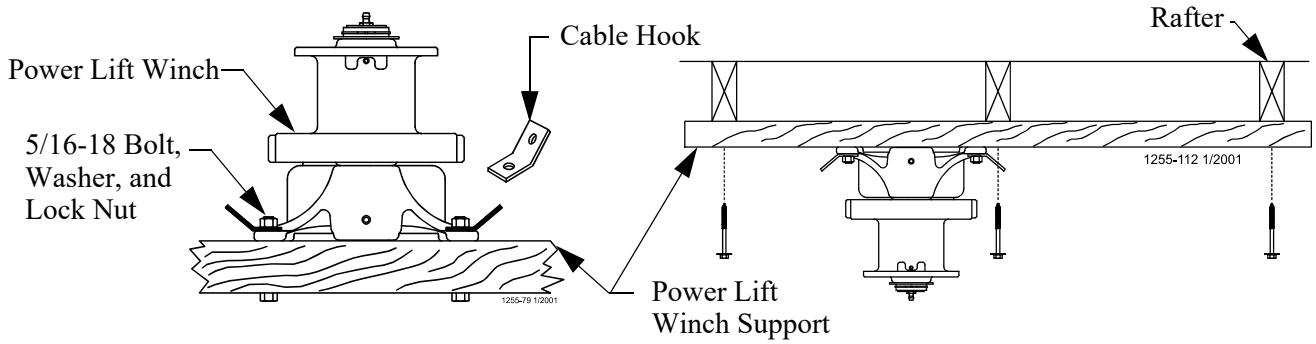


Figure 12.Mounting the Power Lift Winch

Installing the Main Winch Cable

1. Extend the 3/16" *[5 mm]* main winch cable the full length of the feeder line. Attach the cable temporarily to the ceiling with nails, staples, or some type of fastener. **Figure 13.** shows a double back arrangement for feed lines over 350' *[107 m].*

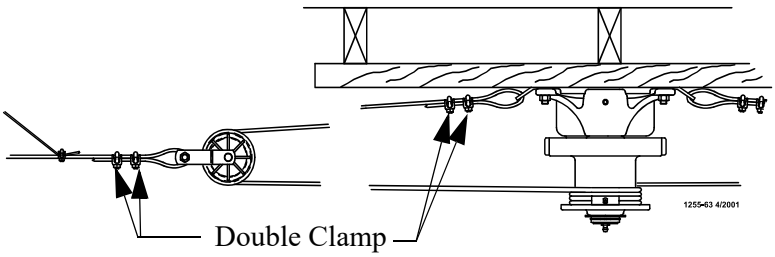


Figure 13. Double back arrangement, feed lines over 350' *[107 m]*

2. Route the cable through the winch drum relief located near the bottom of the drum. Tighten the set screw to anchor the cable to the drum, **see Figure 14.**
3. Turn the winch drum one full revolution. Guide the cable against the flange at the bottom of the winch drum. The cable must not wrap over itself on the drum but should be wrapped as close as possible to each previous wrap, **see Figure 15.**

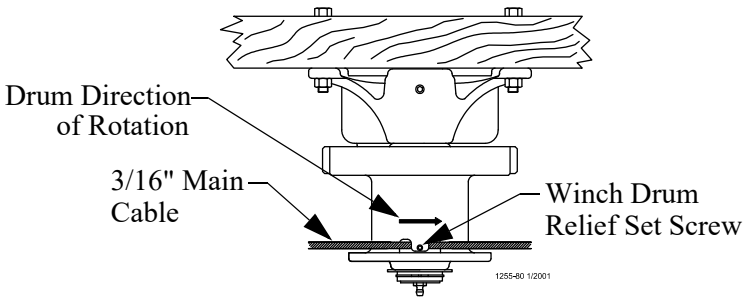


Figure 14. Attach cable to winch

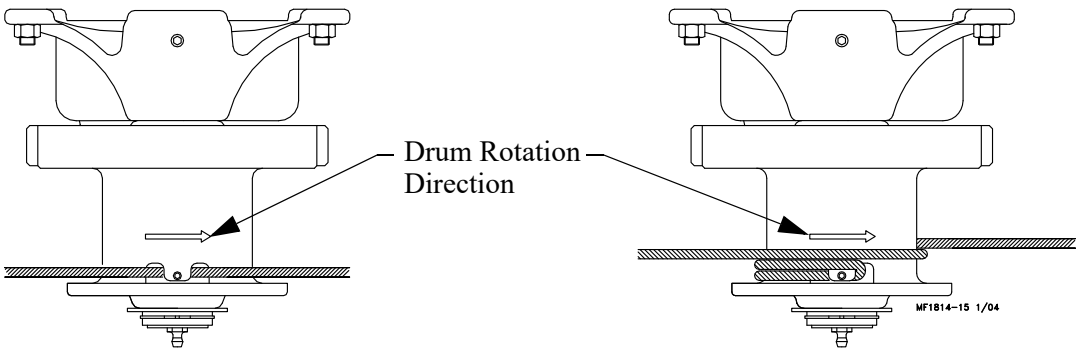


Figure 15.Drum Rotation Direction

Drop Installation

The suspension systems are based on a ceiling height of 14' *[4.3 m]* with suspension drop points every 8' *[2.4 m].* **DO NOT EXCEED 10' *[3 m]* BETWEEN SUSPENSION DROPS.**

IMPORTANT: Adequate overhead structure must be provided to support the weight of the feeders, feed drops, power units, etc. Special support is required at power unit and feeder boot locations.

The feeder line must be supported within 3' *[0.9 m]* of the power unit. This is in addition to the required power unit suspension. If the control pan or feeder boot does not come out directly under a truss, fasten a pulley to a 2" x 8" *[50 x 200 mm]* board or steel angle iron that will span two (2) trusses and is capable of supporting 300 lbs *[136 kg]* for the feeder boot and 75 lbs *[34 kg]* for the control pan.

1. Attach a 3004 pulley to each hook or ceiling bracket.
2. Thread the end of the 3/32" *[2.3 mm]* or 1/8" *[3.2 mm]* cable through the pulley toward the winch. Clamp this end to the 3/16" *[5 mm]* winch cable about 6" *[150 mm]* from the last pulley using a 3/16" cable clamp, **see Figure 17.**

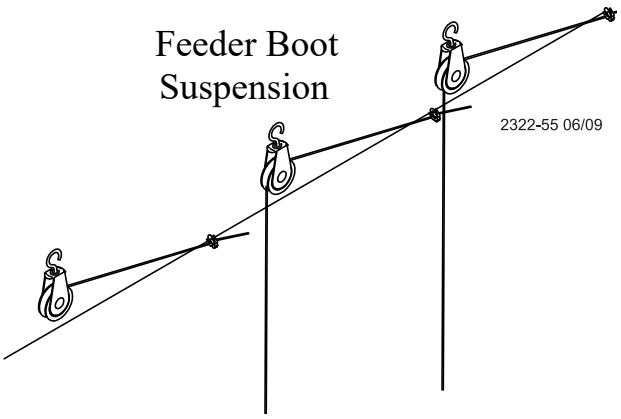
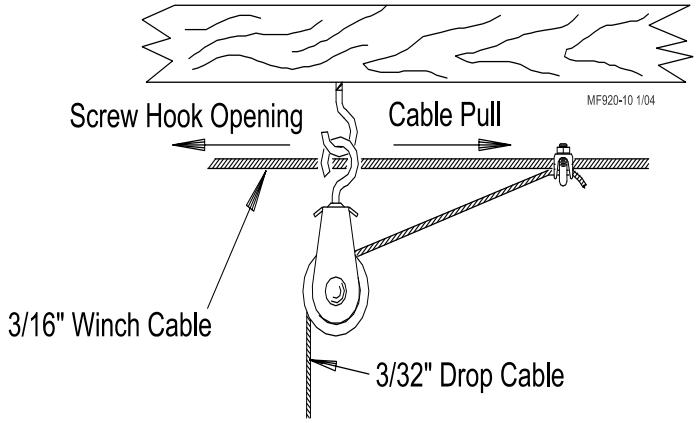


Figure 16. Feeder boot suspension.



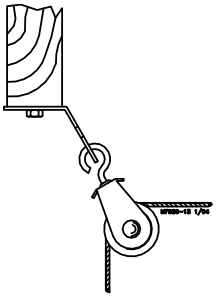


Figure 17.Drop

3. Allow enough cable length for installation to the feeder line and to the adjustment leveler. Sufficient cable is included to provide "throwbacks" on drops located beneath and near the winch. **Figure 18.** shows a "throwback" cable arrangement.

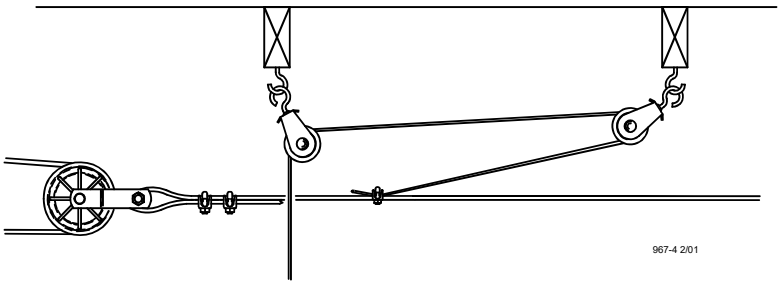


Figure 18. "Throwback" cable arrangement

4. Begin installing suspension drops at the winch and proceed to the ends of the feeder line.

   Keep the main cable tight between drops. It may be necessary to hang a weight on the end of the main cable to maintain tension.

Breeder Feeder Pan Assembly

Locate the Parts as shown below.

ITEM	PART NO.	DESCRIPTION
1	50339	Genesis Grill
2	50337	Adjustable Grill
3	51774	Slide Lock
4	51862	Feed Chute
5	50340	Support Cap
6	50338	Adjustment Knob
7	50341	Height Ring
8	50457	Feed Cone
9	50342	Genesis Pan

Figure 19.Breeder Feeder Parts

Feeder Pan Assembly Box Construction

Chore-Time recommends building an assembly box to aid in assembling the Feeder Pans

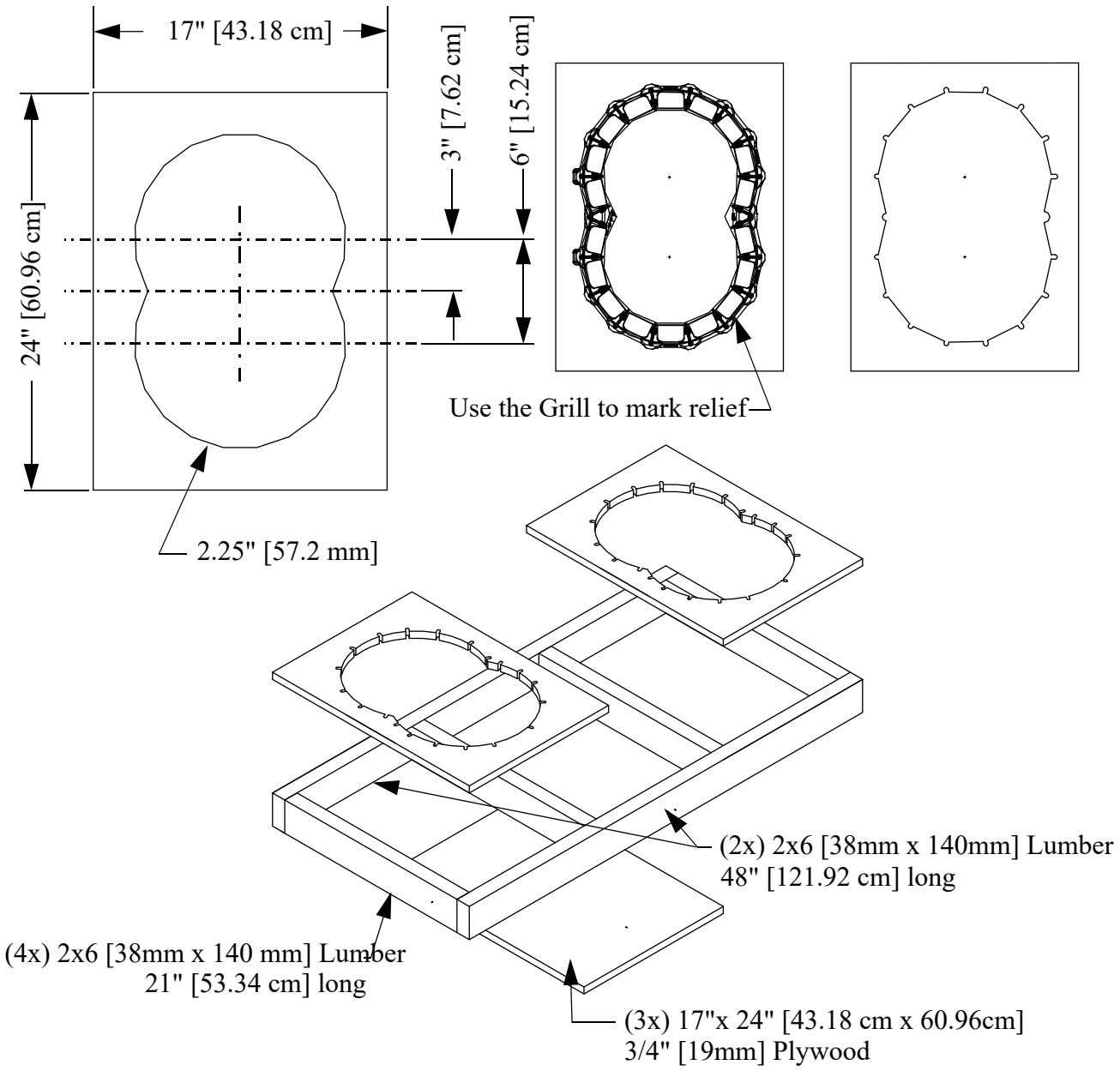


Figure 20.Feed Pan Assembly Box Construction

1. Cut a piece of 3/4" *[19 mm]* plywood 17"*[43.18 cm]* x 24"*[60.96 cm]*.
2. Center the grill on the 17"*[432 mm]* x 24"*[609 mm]* piece of plywood. Use a pencil and draw around the inside edge of the grill as shown in **Figure 20.** Mark a "V" at each strut location.
3. Remove the grill.
4. Use a spade bit to drill a hole at each strut location as shown in **Figure 20.**
5. Use a sabre saw to cut along the line.
6. Use FOUR (4) 21"*[53.34 cm]* and two (2) 48"*[121.92 cm]* 2 x 6 *[51 mm* x *236 mm]* pieces of lumber to construct the box sides. Nail the 3/4" *[19 mm]* plywood fixture to the box.

   It is important to use 6" *[152 mm]* sides for the box. Smaller BOARD will not allow sufficient depth for the grill to be placed in the box face down.

Breeder Pan Assembly Procedure

The following procedure includes all possible components for this feeder. If your installation does not include one of the components skip over it and go to the next step.

1. Place a Grill in the Pan assembly box fixture.
2. Install two (2) Adjustable Grills. Make sure to line up the arrows on the teeth for proper installation see **Figure 22.**

Figure 21. Place Grill into Assembly Fixture

Tip: Prior to installing the adjustable Grills align the teeth as shown in Figure 22. Hold the Grills together at the teeth and press them through the snaps as shown in Figure 22.

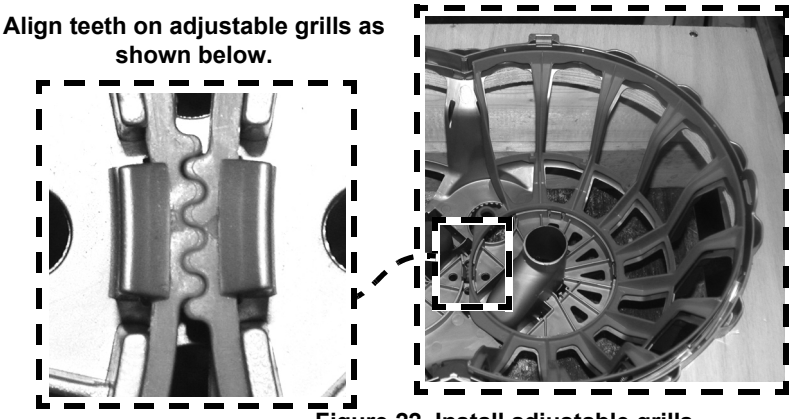


Figure 22. Install adjustable grills

3. Install two (2) Feed Cones see **Figure 23.**

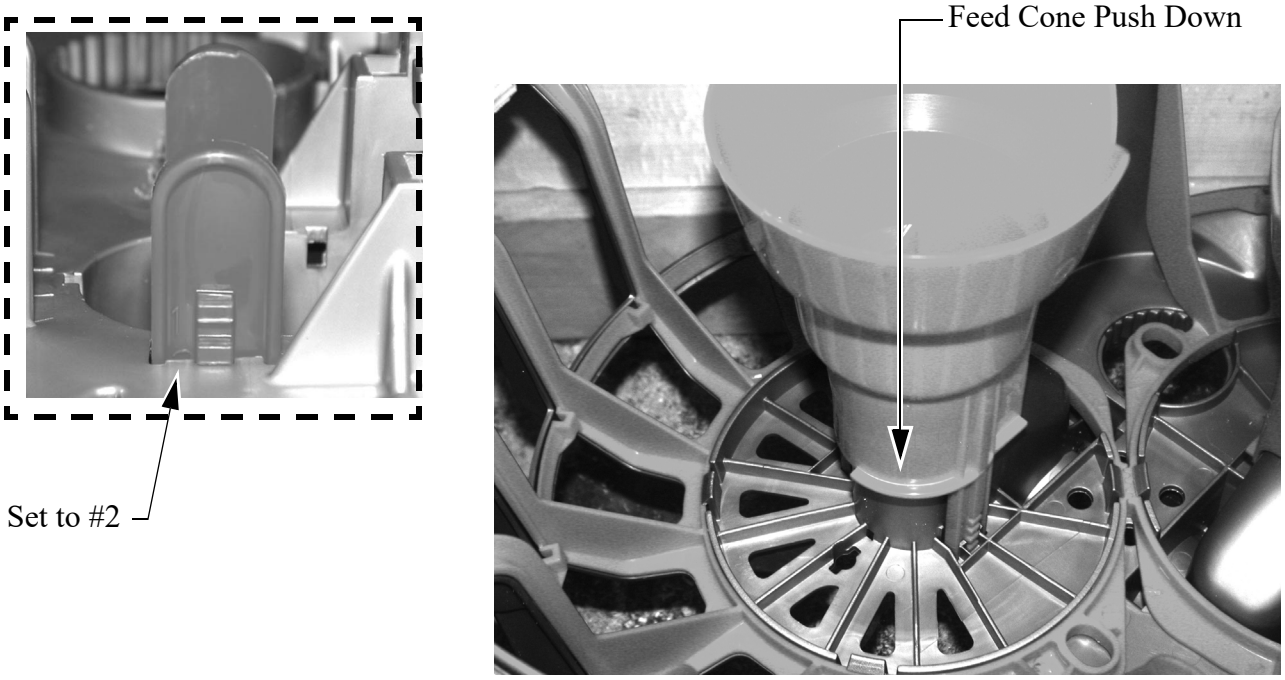


Figure 23.Feed Cone Installation

4. Install the Feeder Pan.
5. Remove pan assembly from the assembly fixture.
6. When snapping the Pan into the Grill, be sure that all retainer posts in the Pan are inside lower ring on Adjustable Grills

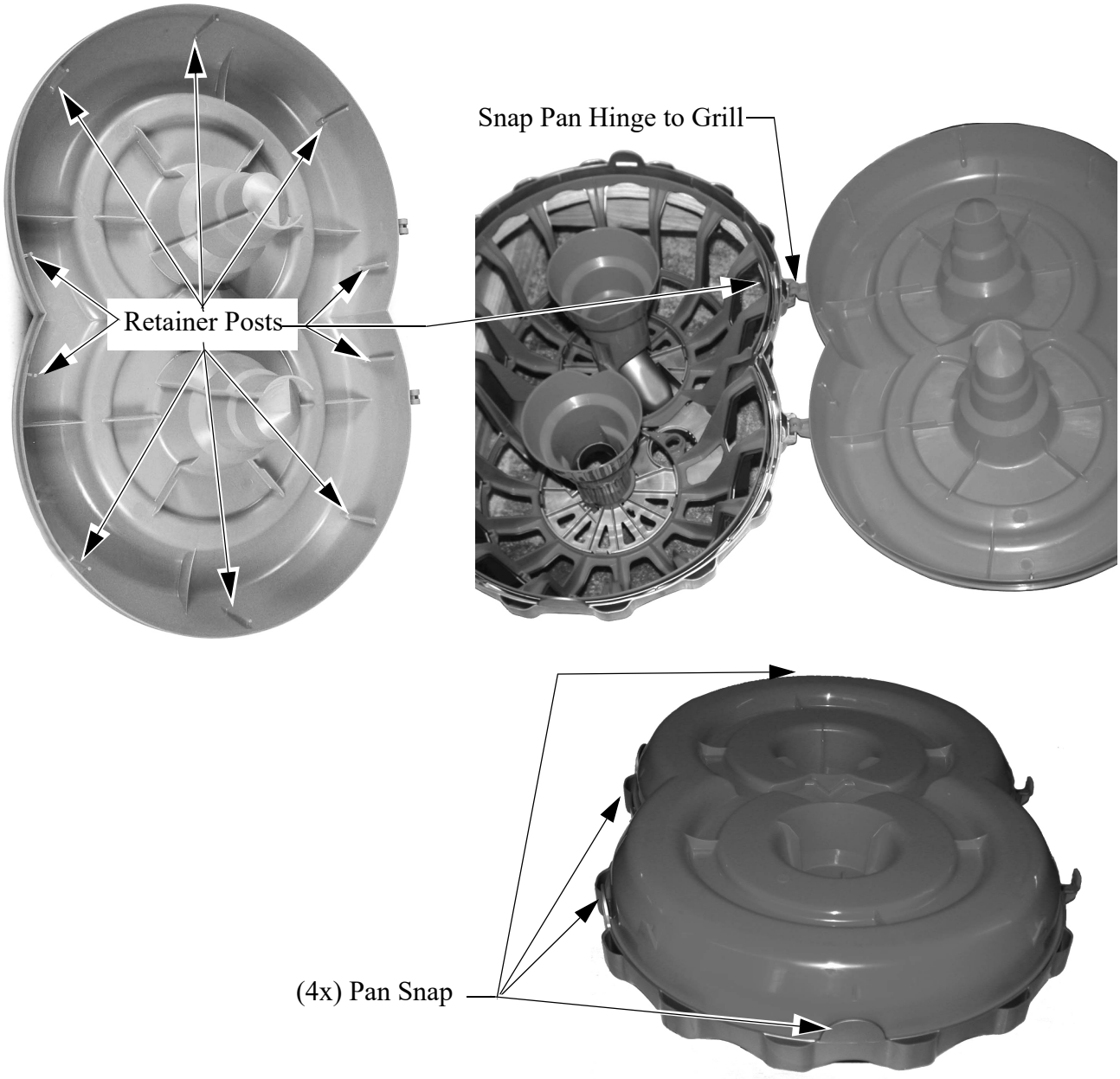


Figure 24. Install Feeder pan

Feeder Pan and Tube Assembly Fixture Construction

Chore-Time recommends building an assembly fixture to aid installation of the Feed Pans to the feeder tube. See Genesis Feed Tube spacing on **Figure 26. on page 20** for spacing dimensions "X"

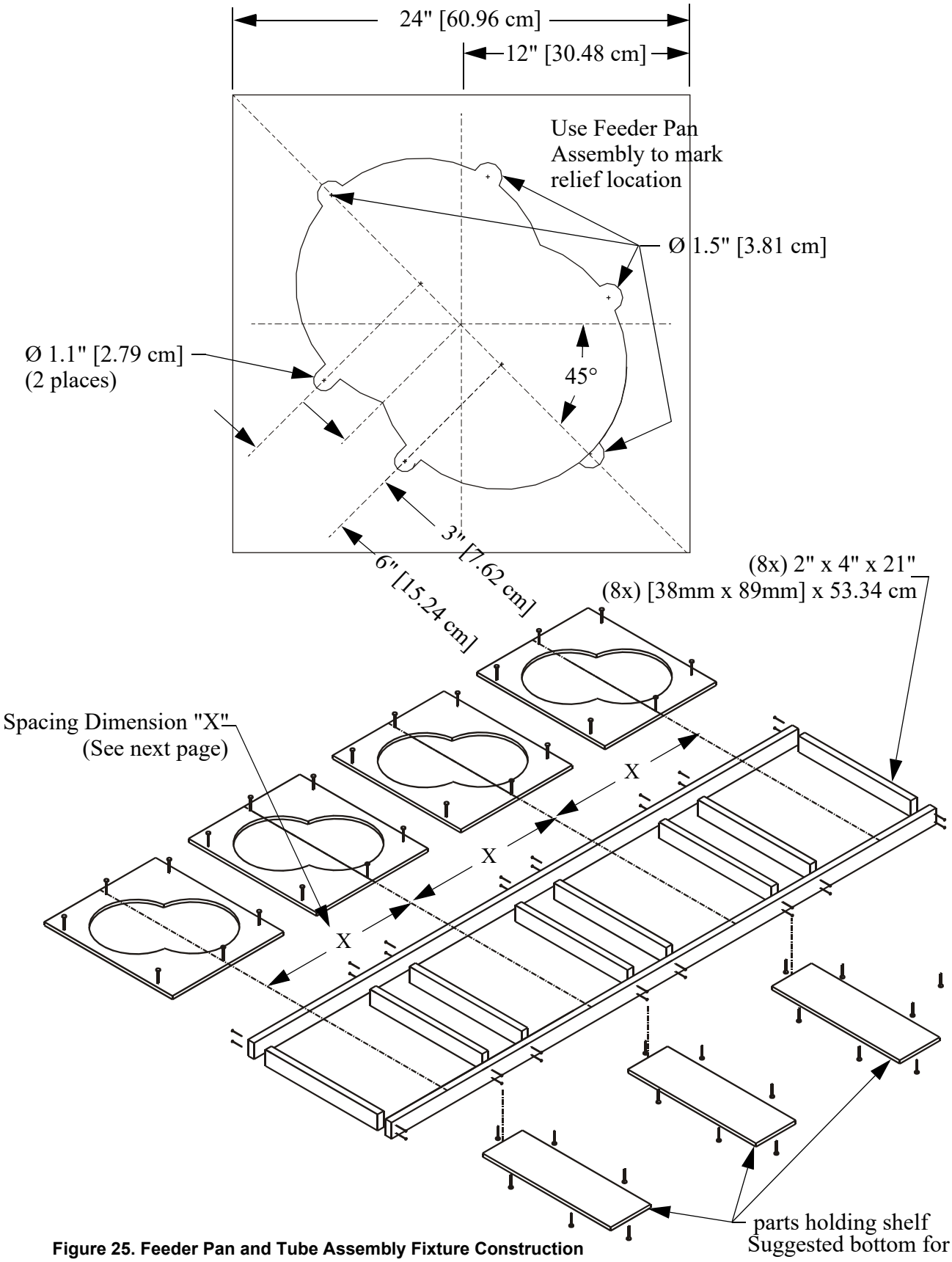


Figure 25. Feeder Pan and Tube Assembly Fixture Construction

Feeder Pan and Tube Installation Procedure

The following procedure includes all possible components for this feeder. If your installation does not include one of the components skip over it and go to the next step.

1. Place the assembled feeder pans into the assembly fixture with same orientation.

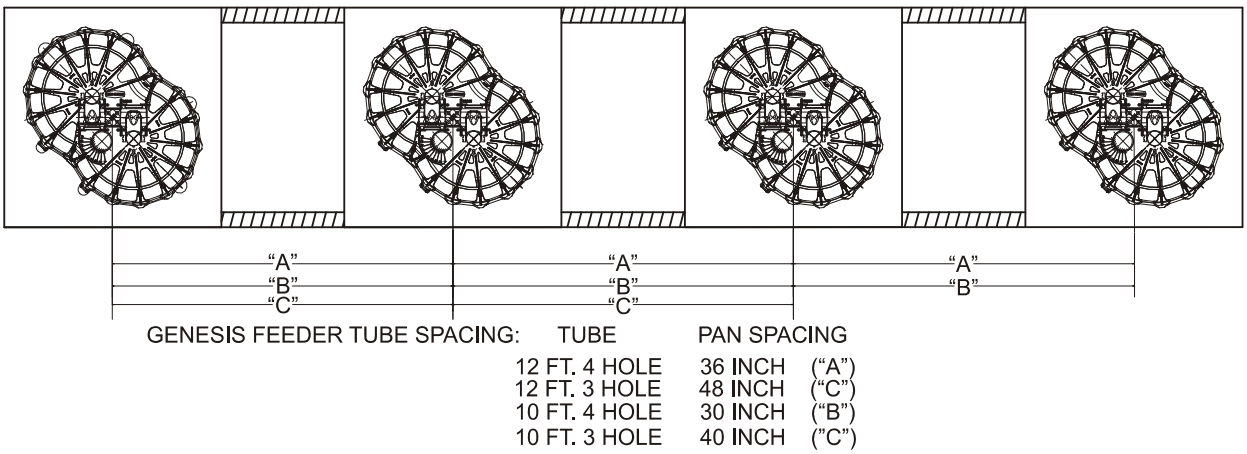


Figure 26. Pan Spacing

2. Install one (1) adjustment knob per Pan assembly. The Adjustable Grills should be set full open (50mm). Then snap adjustment knob in place.
3. With Knob installed, set Knob to 44mm or use setting from poultry company

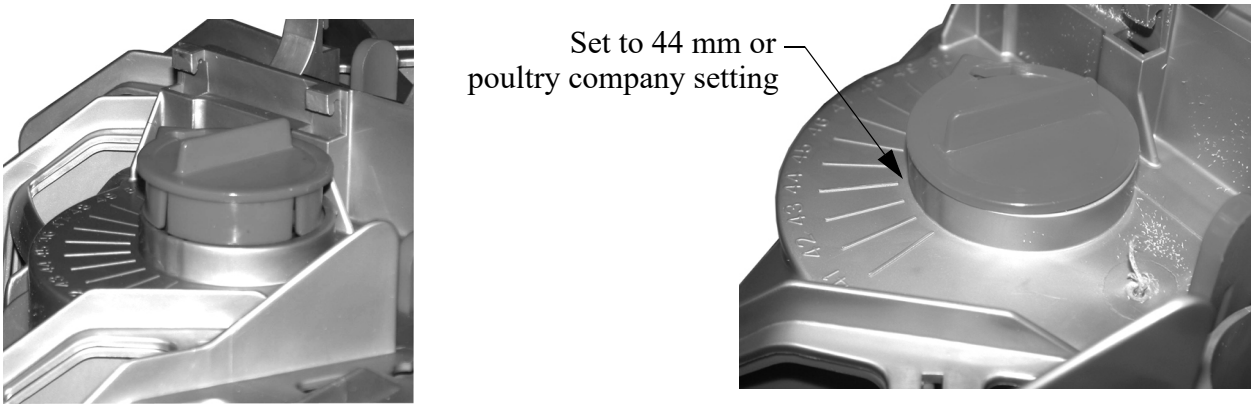


Figure 27. Adjustment Knob Installation

4. Install two (2) feed chutes per pan assembly.

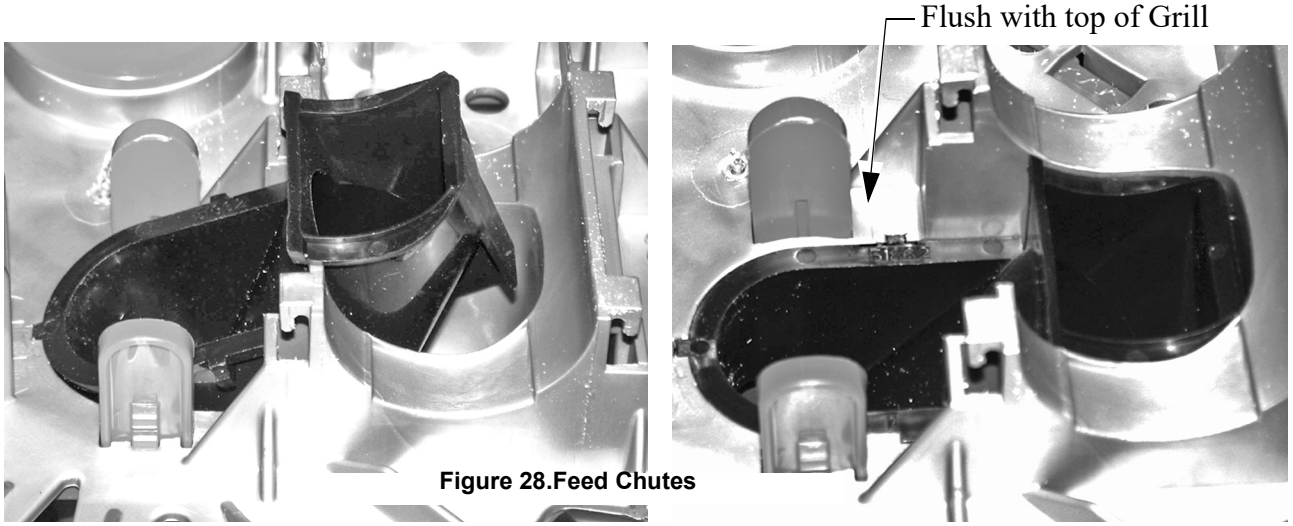


Figure 28.Feed Chutes

5. install one (1) Height Adjustment Ring. The height setting will determined by the Poultry company.

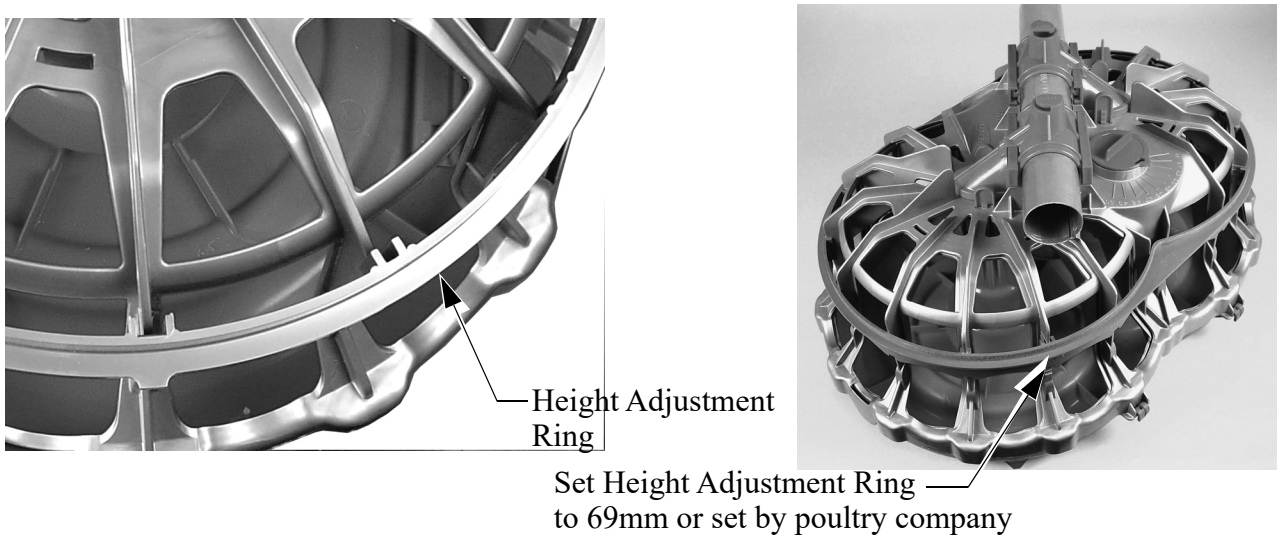


Figure 29.Adjustment Ring

6. Attach the Feeder Tube to the Feeder Pan assemblies.

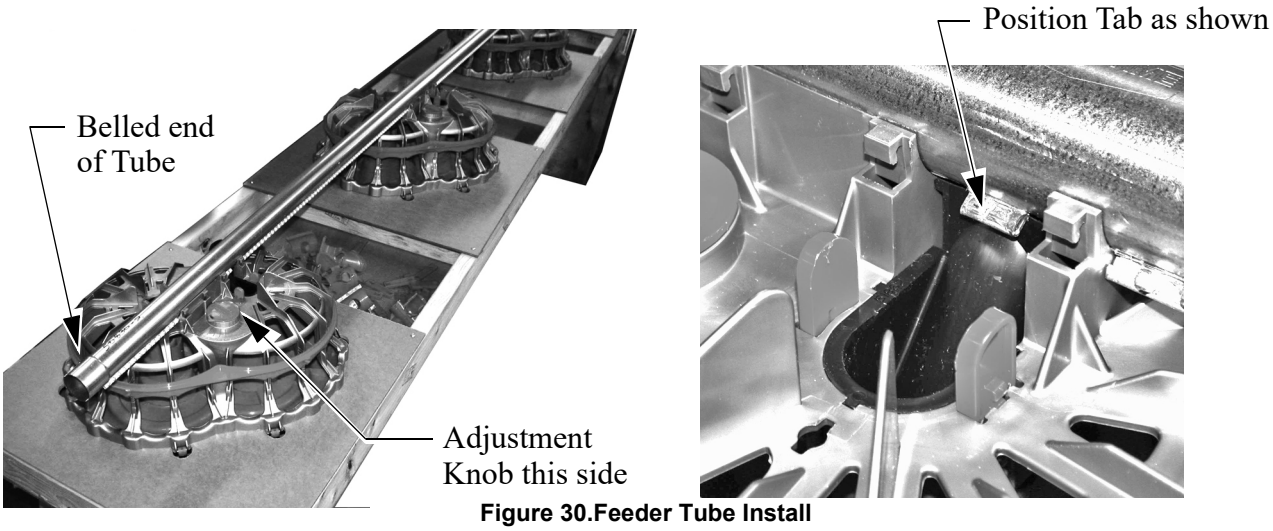


Figure 30.Feeder Tube Install

7. Install two (2) Support Caps over the Feeder Tube.

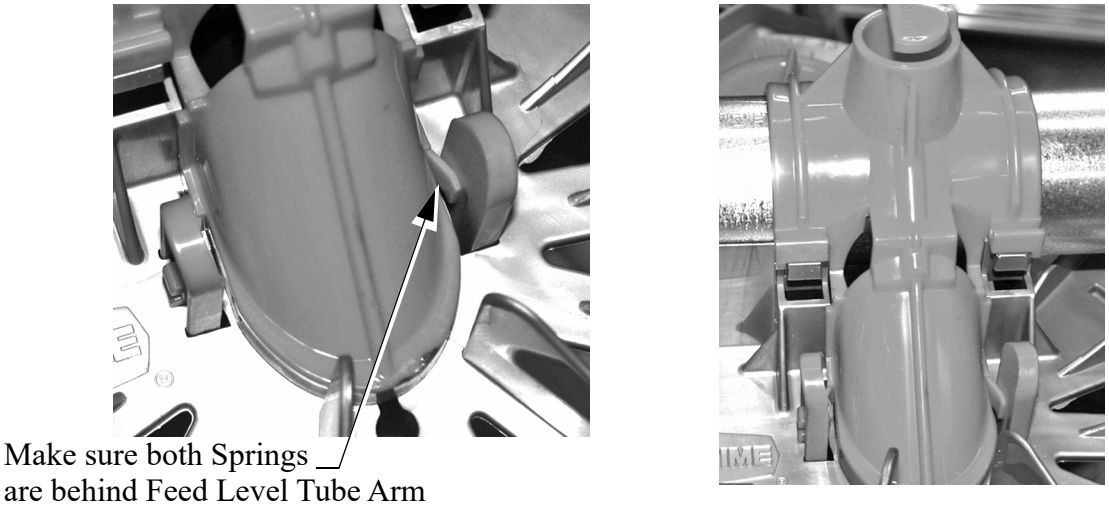


Figure 31.Feed Level Tube Arm

8. Install 4 Slide Locks per Pan. Start the open end of the lock to slide over the Support Cap and Grill top.

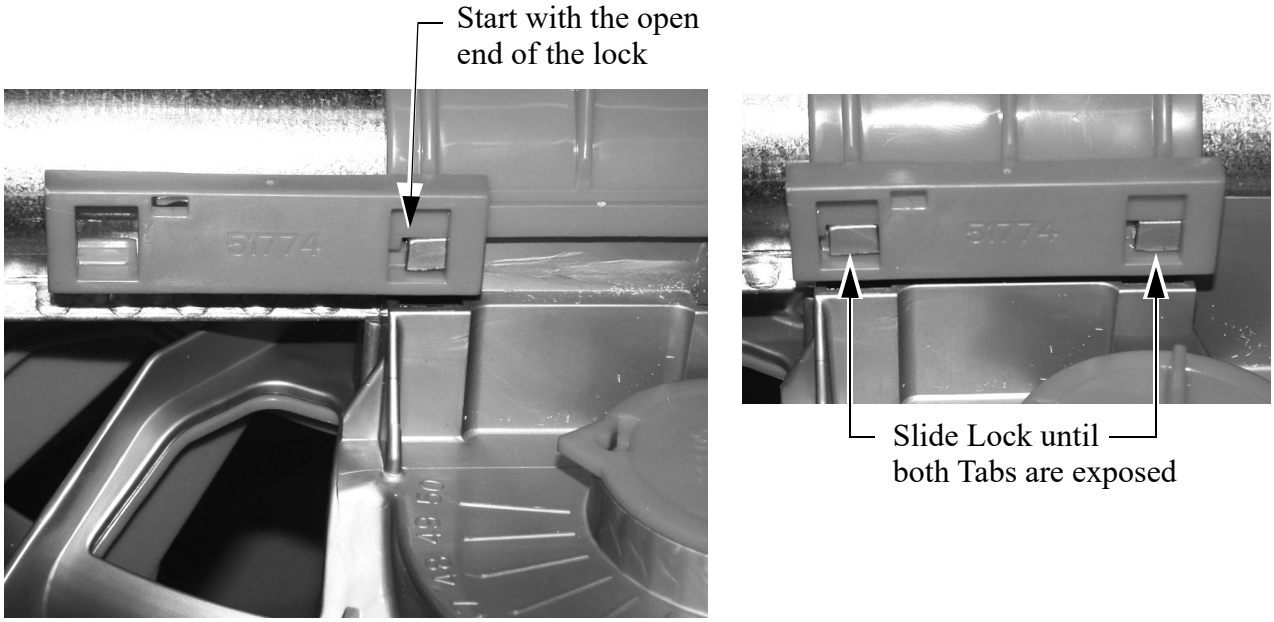


Figure 32.Slide Locks

9. Be sure that all Feed Tube are set to #2 position

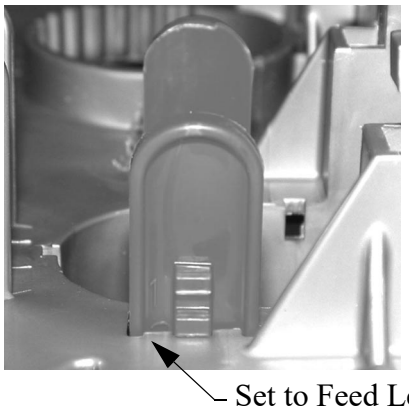


Figure 33.Feed Tube Setting

10. Remove the tube assembly from the fixture and continue assembling the remaining Feeder Pans and Tubes.

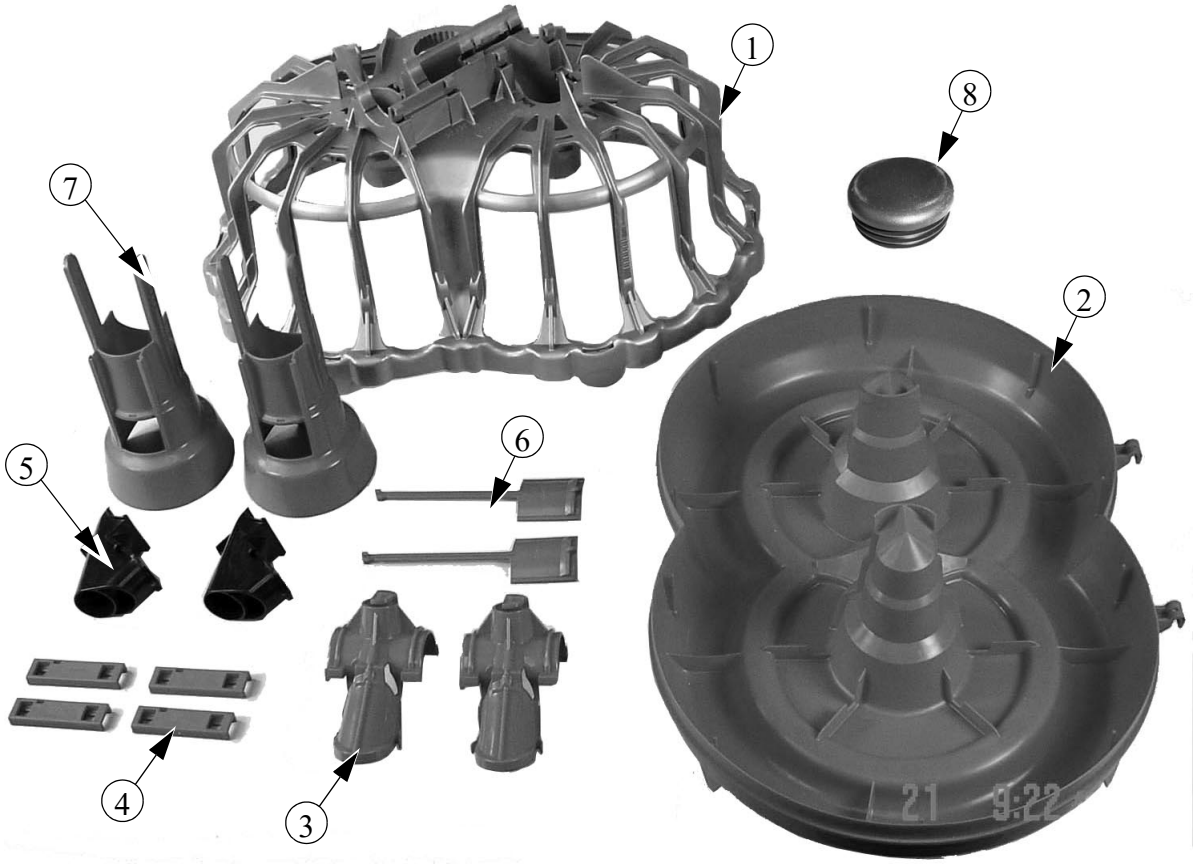
Assembly Check List

1. All Pans have two Feed Cones. **Figure 23. on page 17**.
2. Feed Level Setting set on #2. **See Figure 33.**
3. All Pans have two adjustable Grills. **See Figure 23.** Be sure that the adjustable Grill Bottom Ring is setting inside the retainer post in Pan.
4. Adjustment Knob installed and set. **See Figure 27.**
5. Height Ring set to 69mm or recommended setting from poultry company. **See Figure 29.**
6. Grill width set to 44mm or recommended setting from poultry company. **See Figure 27.**
7. all four Pans snaps, snapped in properly. raise the Feeder and check to see that all Pans are snapped in completely. **See Figure 24.**
8. All Pans installed in the correct direction. **See Figure 30.**
9. Slide Lock installed and two tabs showing. **See Figure 32.**
10. Springs are behind Feed Level Cone Arms. **See Figure 31.**

Feeder Pan Assembly

Pullet Pan Parts

Locate these parts before beginning to assemble the Pans



Item	Part Number	Description
1	50339	Genesis Grill
2	50342	Genesis Pan
3	50340	Support Cap
4	51774	Slide Lock
5	51862	Feed Chute
6	50345	Feed Gate
7	50344	Feed Cone w/Window
8	29523	Plug

Feed Pan Assembly Box Construction

Chore-Time recommends building an assembly box to aid in assembling the feeder pans

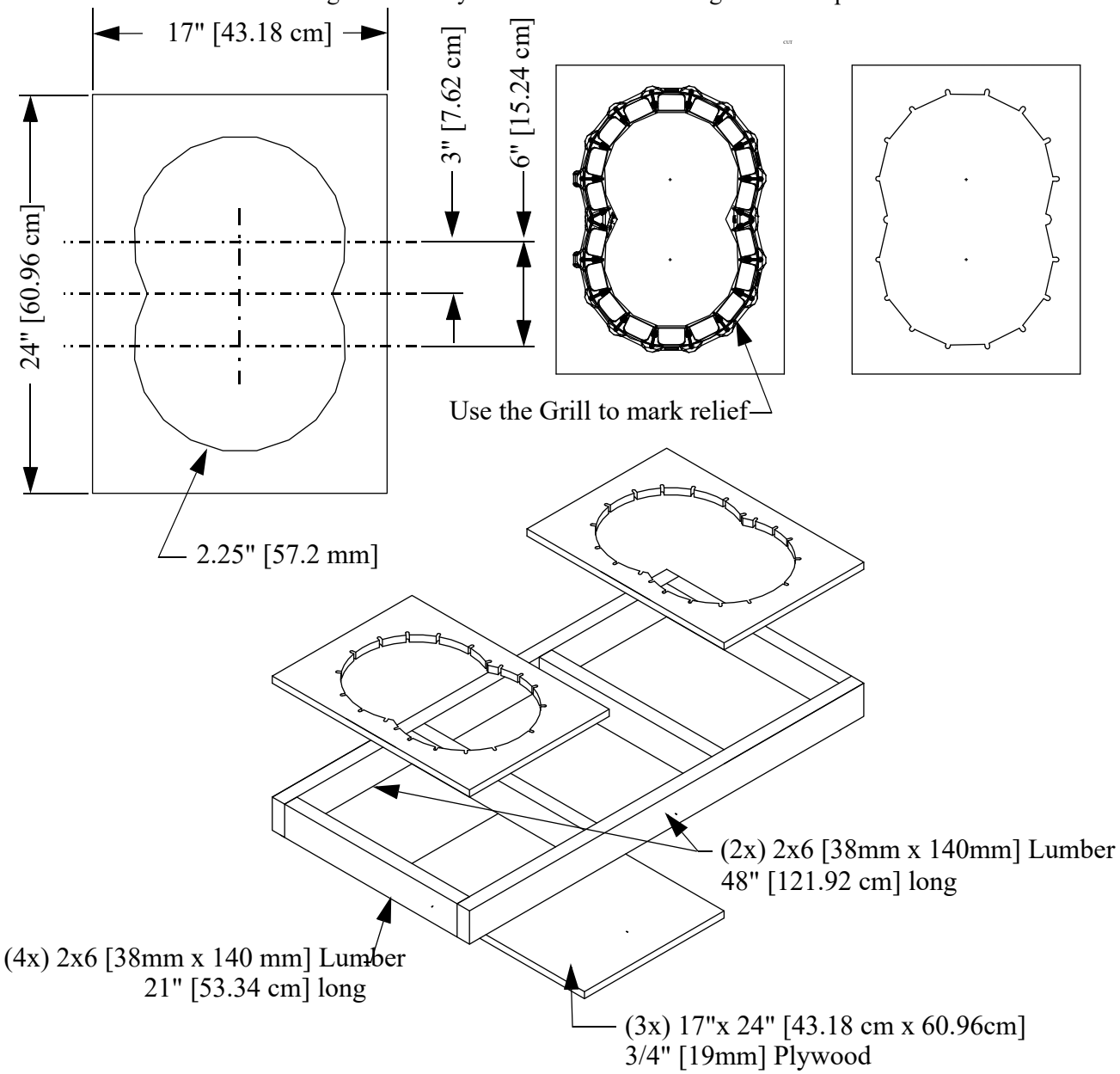


Figure 34. Feed Pan Assembly Box Construction

1. Cut a piece of 3/4" *[19 mm]* plywood 17"*[43.18 cm]* x 24"*[60.96 cm]*.
2. Center the grill on the 17"*[432 mm]* x 24"*[609 mm]* piece of plywood. Use a pencil and draw around the inside edge of the grill as shown in **Figure 34.** Mark a "V" at each strut location.
3. Remove the grill.
4. Use a spade bit to drill a hole at each strut location as shown in **Figure 34.**
5. Use a sabre saw to cut along the line.
6. Use FOUR (4) 21"*[53.34 cm]* and two (2) 48"*[121.92 cm]* 2 x 6 *[51 mm* x *236 mm]* pieces of lumber to construct the box sides. Nail the 3/4" *[19 mm]* plywood fixture to the box.

   It is important to use 6" *[152 mm]* sides for the box. Smaller BOARD will not allow sufficient depth for the grill to be placed in the box face down.

Pullet Pan Assembly Procedure

The following procedure includes all possible components for a PULLET Feeder Pan.

1. Place a Grill in the Pan assembly box fixture.

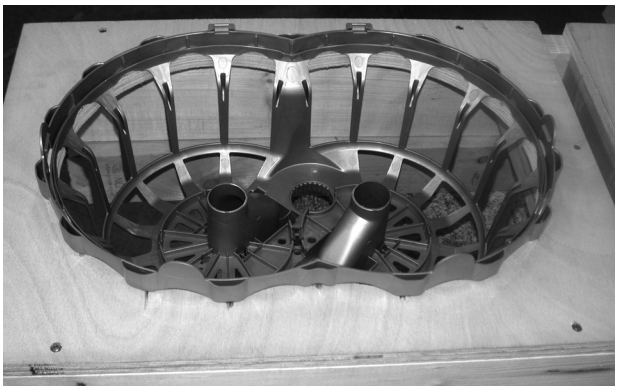


Figure 35. Place Grill into Assembly Fixture

2. Install two (2) Feed Cones see **Figure 36.**

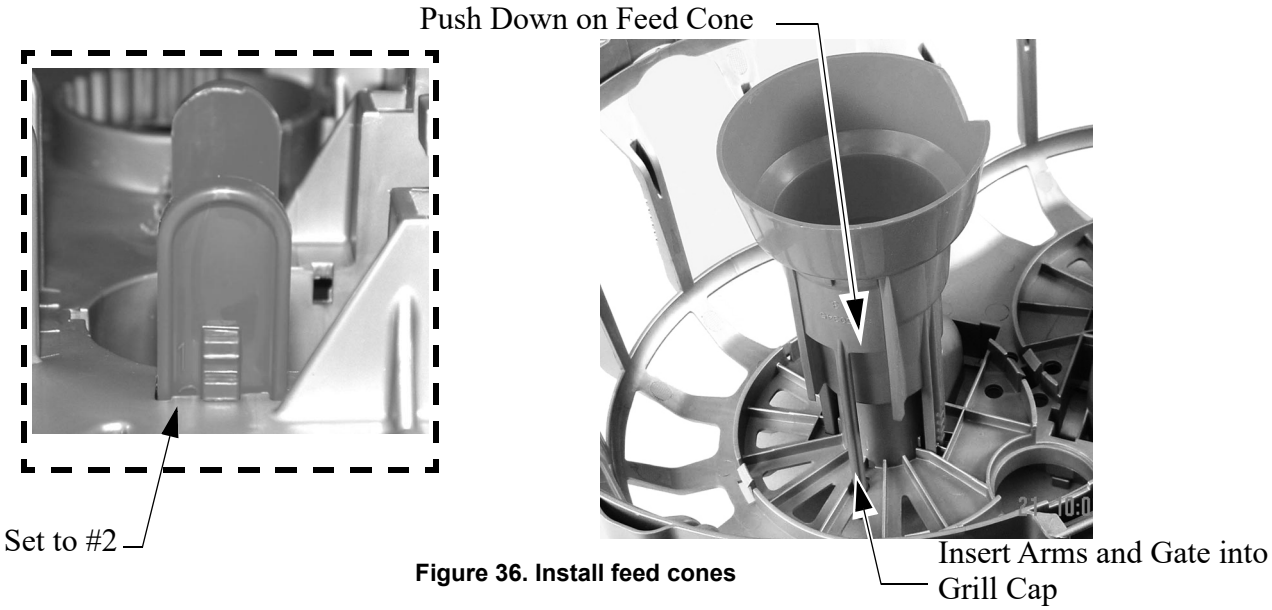


Figure 36. Install feed cones

3. Install the Feeder Pan

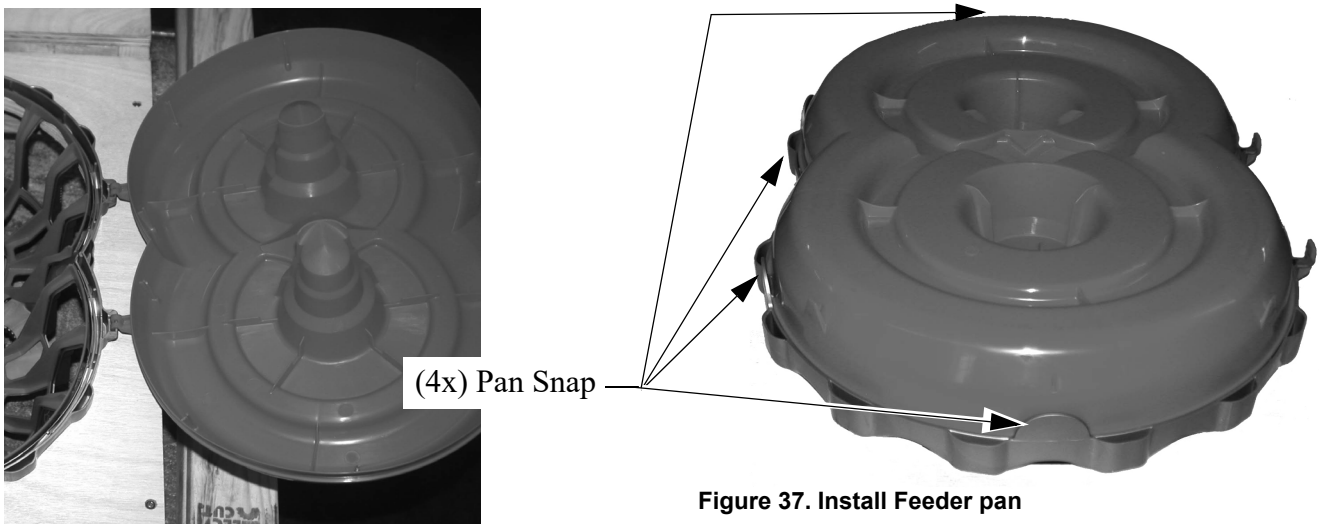


Figure 37. Install Feeder pan

4. Remove pan assembly from the assembly fixture.

Feeder Pan and Tube Assembly Fixture Construction

Chore-Time recommends building an assembly fixture to aid installation of the Feed Pans to the Feeder Tube.

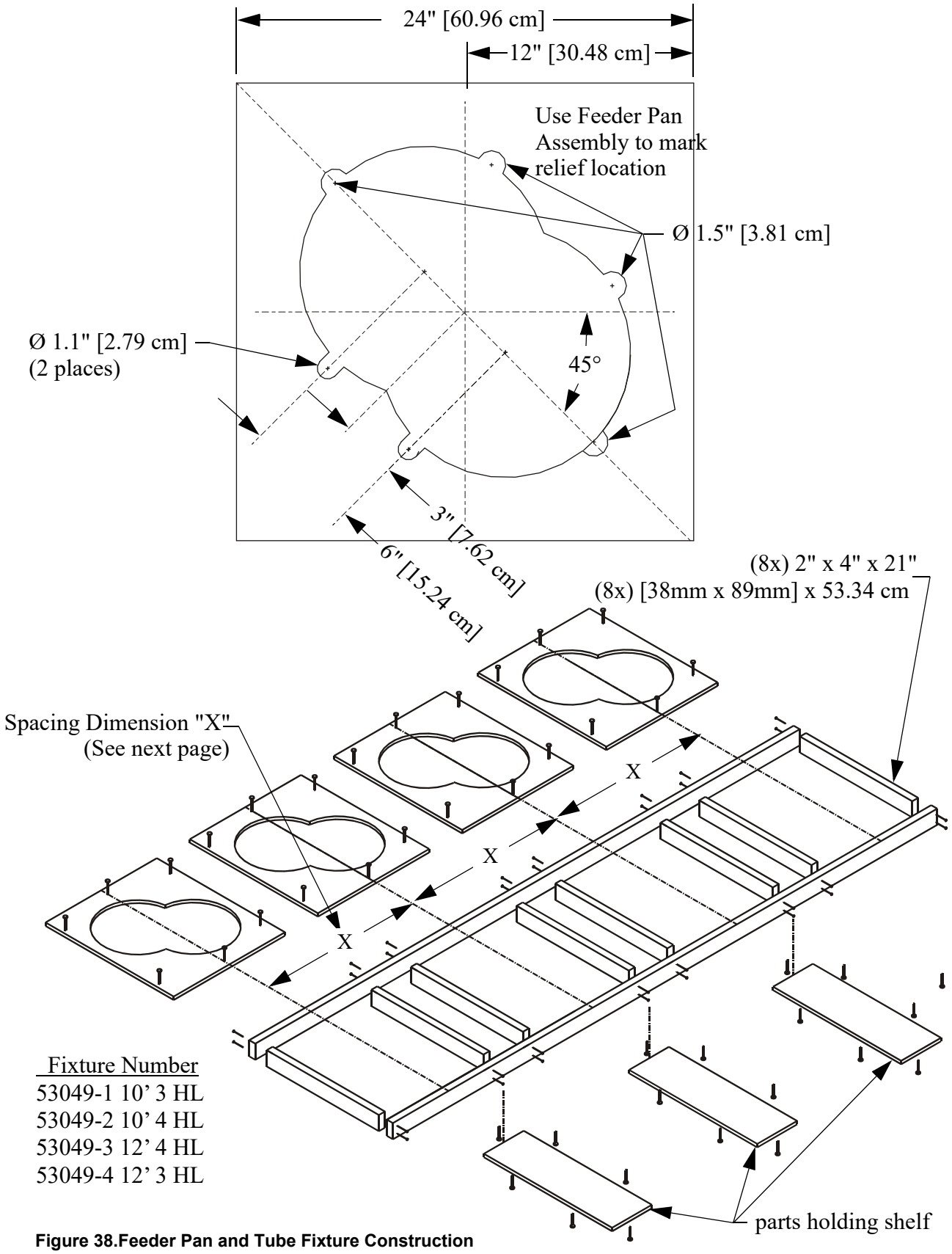


Figure 38.Feeder Pan and Tube Fixture Construction

Pullet Pan and Tube Installation Procedure

The following procedure includes all possible components for this feeder. If your installation does not include one of the components skip over it and go to the next step.

1. Place the assembled Feeder Pans into the assembly fixture with same orientation.

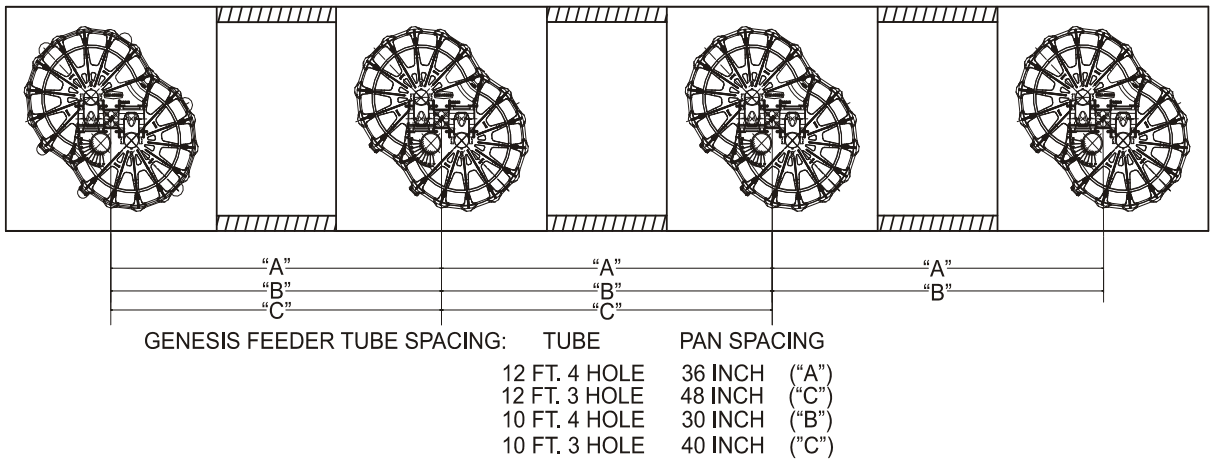


Figure 39. Pan Spacing

Feed Chute Installation

1. Install two (2) Feed Chutes per Pan Assembly.

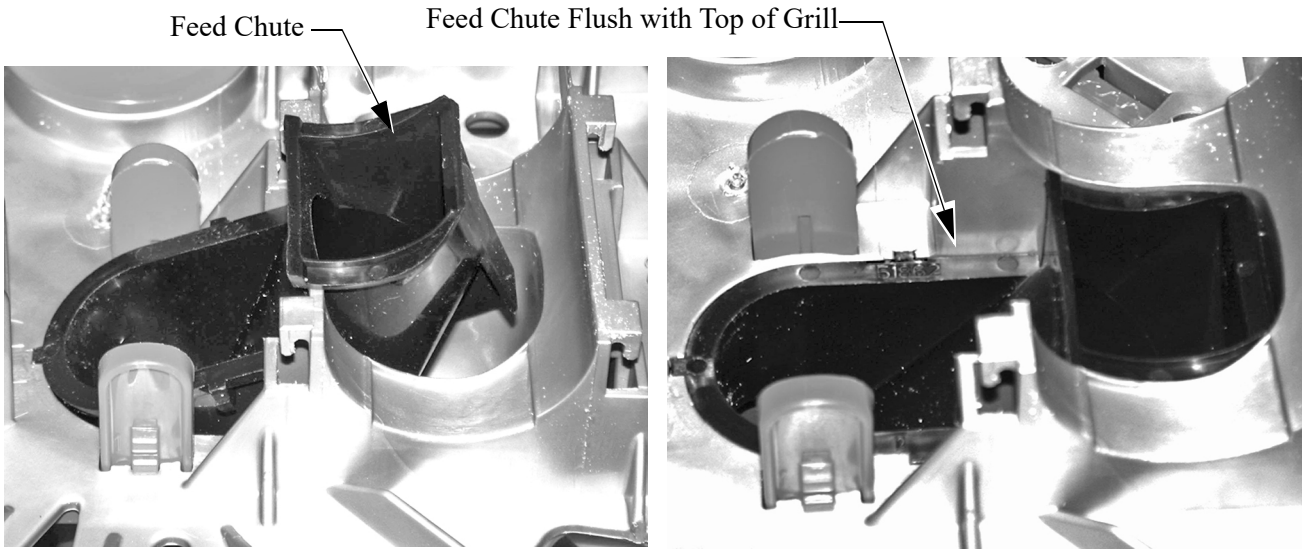


Figure 40.Feed Chute Installation

Feeder Tube Assembly

1. Install the Feeder Tube to the Feeder Pan Assemblies.

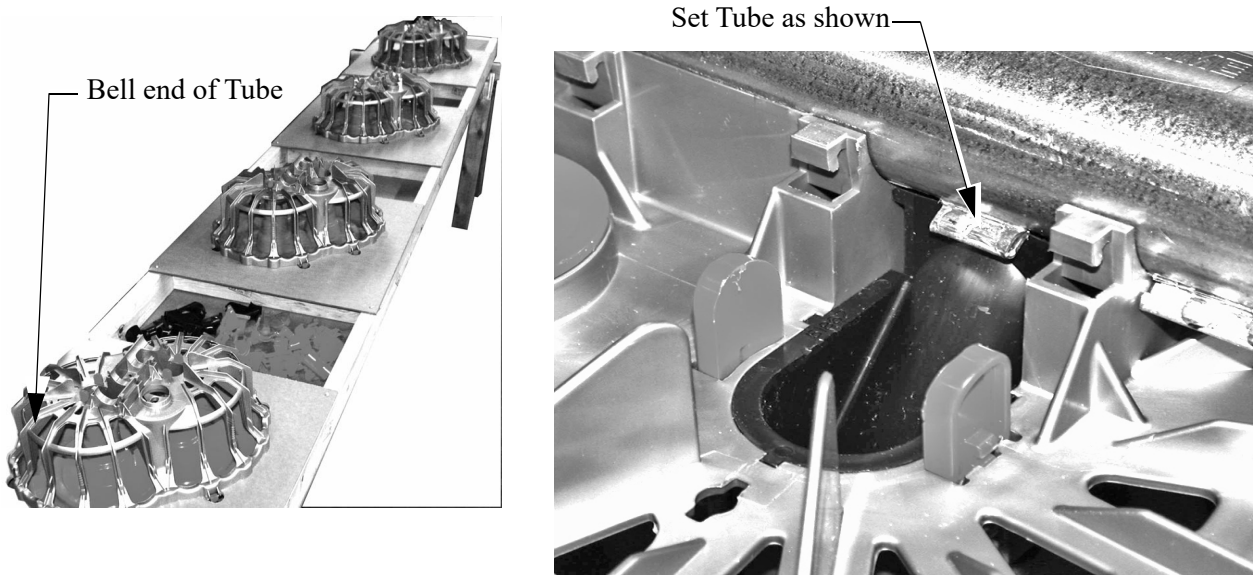


Figure 41.Attaching Feeder Tube to Pan Assemblies

2. Install two (2) Support Caps over the Feeder Tube.

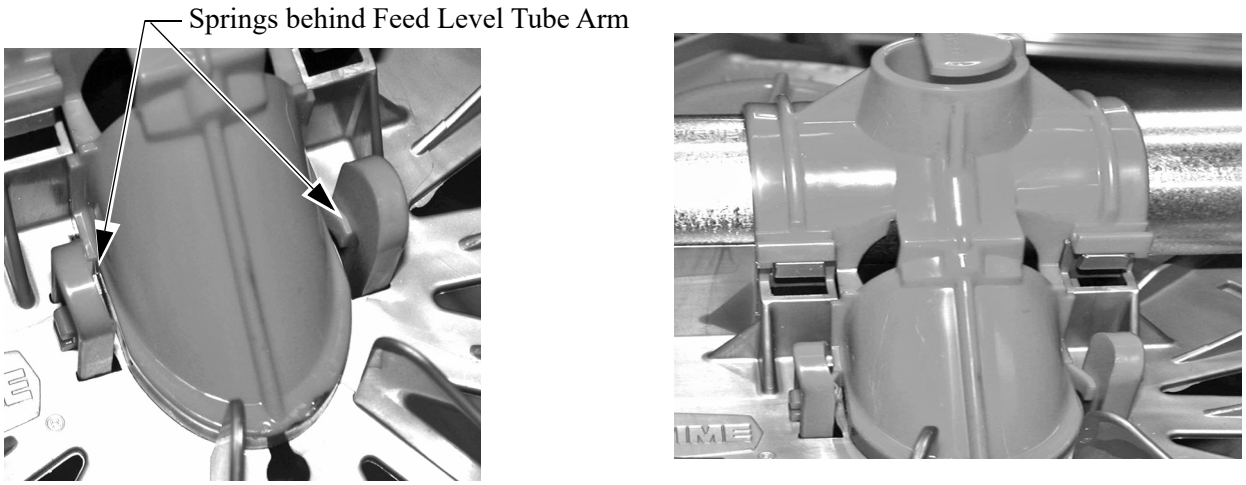


Figure 42.Installing Support Caps

3. Install 4 Slide Locks per Pan. Start the open end of the Lock to slide over the Support Cap and Grill Top.

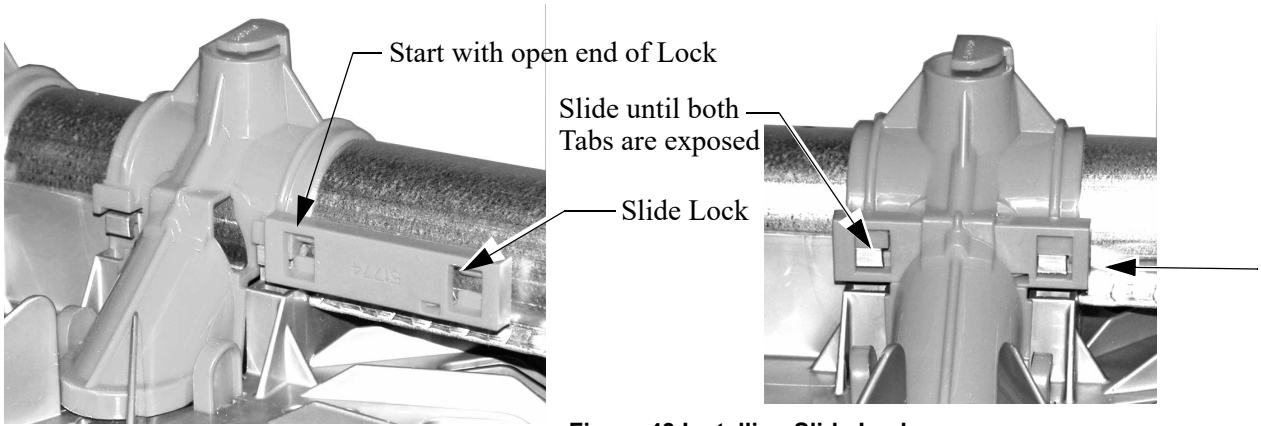


Figure 43.Installing Slide Locks

4. Be sure that all feed LEVEL CONES are set to #2 position

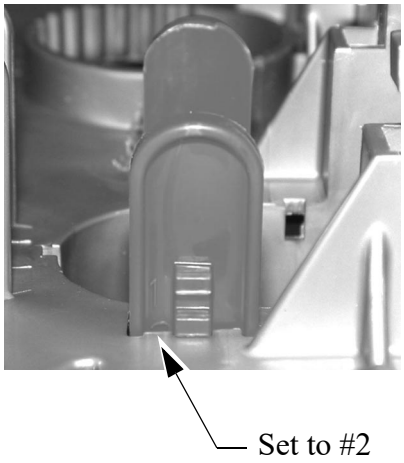


Figure 44.Feed Level Adjustment

5. Remove the tube assembly from the fixture and continue assembling the remaining feeder pans and tubes.

Assembly Check List

1. All Pans have two Feed Cones and Feed Gates. **Figure 36. on page 25**.
2. Feed Level Setting set on #2. **Figure 36. on page 25**
3. All four Pans snapped in properly. **Figure 37. on page 25**
4. Each Pan has two Support Caps.
5. Slide Lock installed and two tabs showing. **Figure 43. on page 28**
6. Springs are behind Feed Level Cone Arms. **Figure 42. on page 28**
7. All Pans installed in the correct direction.

Feeder Loop Assembly and Suspension

Feeder Tube Loop Assembly

Note: The auger must travel in a clockwise direction when standing inside the loop.

1. Position the tubes end to end in approximately the final location of the line. The feeder tubes should be installed so the expanded (belled) end of each tube points in the opposite direction of the auger travel, **see Figure 45.**

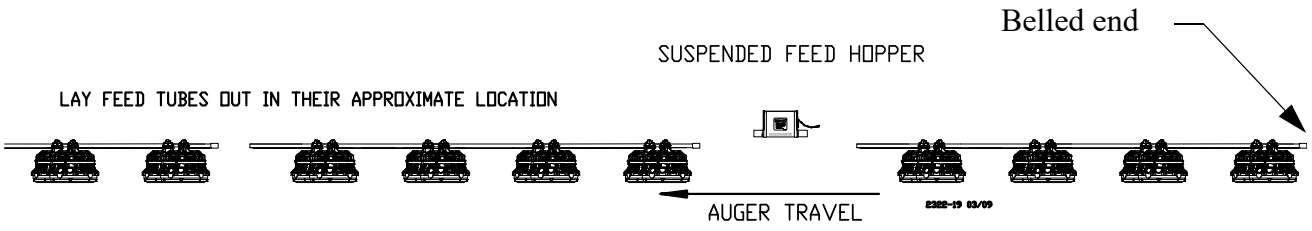


Figure 45. Tube layout

2. Systems with two (2) feeder boots (systems with over 500' *[152 m]* total auger length) must have feeder boot located as specified in *"Planning the System" on page 8.*

   Systems with one (1) feeder boot (systems less than 500' *[152m]* total auger length) may have the feeder boot located as specified, **see Figure 46.**

   Chore-Time recommends locating the feeder boot in the center of the loop as shown. However the feeder boot may be installed at the alternative location

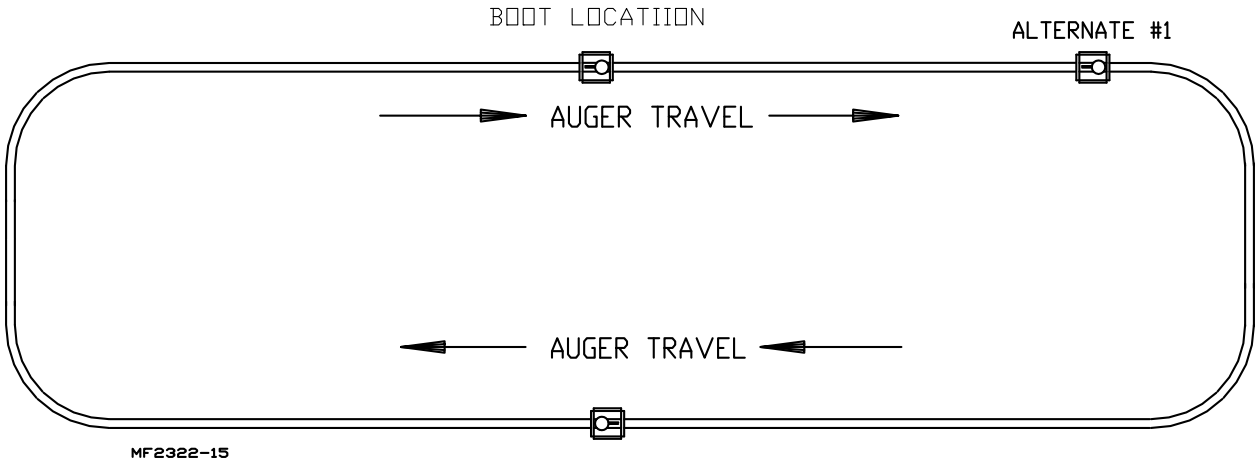


Figure 46. Feeder boot Layout

3. Beginning at the boot, assemble the tube connector and auger tubes as shown in the appropriate diagram. Insert the straight end of the tube as far as possible into the belled end of the next tube.

Note: The feed tubes should be installed clockwise around the system starting at the outlet end of one feeder boot. Continue through the elbows to the incoming end of the feeder boot.

Feeder boot installation:

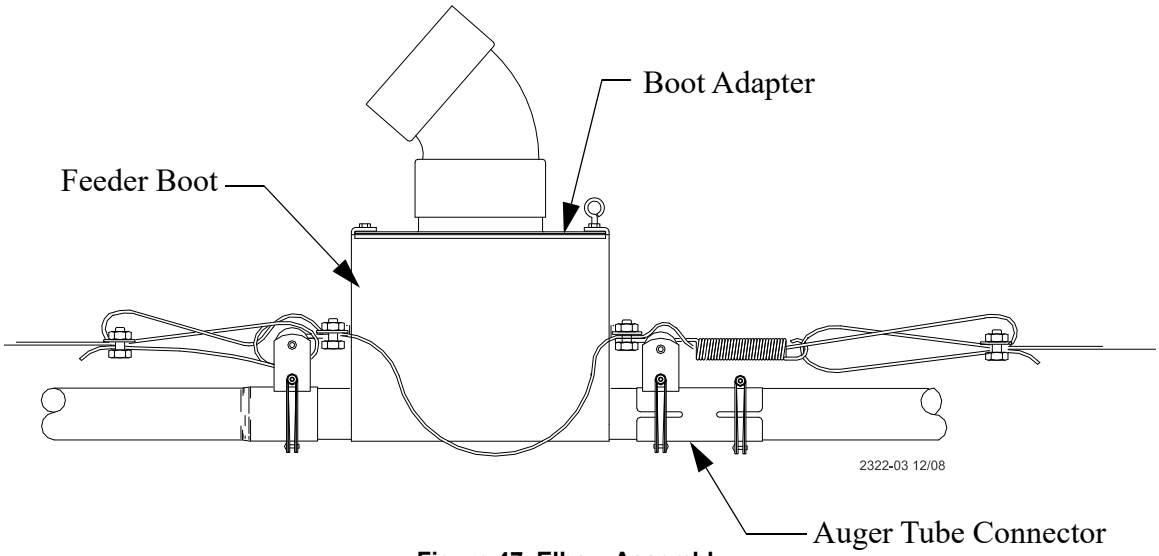


Figure 47. Elbow Assembly

Drive Unit Installation

4. Continue assembling the feeder line until a power unit location is reached. Refer to *"Planning the System" on page 8* to determine power unit locations for various system lengths.

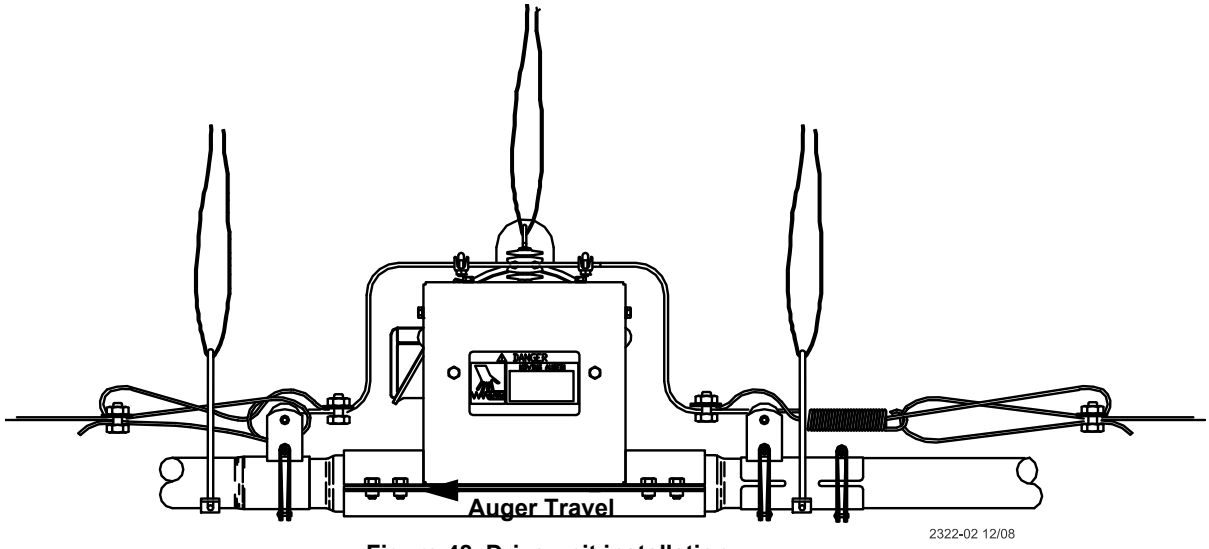


Figure 48. Drive unit installation

5. Remove the power unit from the base connector weldment and install the base connector weldment as shown, **see Figure 48.**
6. Loosen the four (4) bolts on the incoming side of the power unit base.

   Slide the belled end of the tube adapter into the incoming side of the power unit base. Tighten the four (4) bolts to secure the tube adapter to the power unit base, **see Figure 48.**

   Use a tube connector to connect the incoming straight section of the auger tube to the tube adapter. Secure using a standard clamp and an anti-roost clamp.
7. Loosen the four (4) bolts on the outgoing side of the base connector weldment.

   Slide the belled end of the tube adapter into the outgoing side of the power unit base. Tighten the four (4) bolts to secure the tube adapter to the power unit base.
8. Insert the belled end of the next tube section over the tube adapter, as shown in **Figure 48.** Secure using a clamp/anti-roost bracket.

9. Continue installing auger tubes until the elbows are reached.
10. Assemble the elbows and related components as shown in **Figure 49.** Temporarily support the elbows until the suspension system is installed.
11. Install the insulators around the elbows approximately as shown.

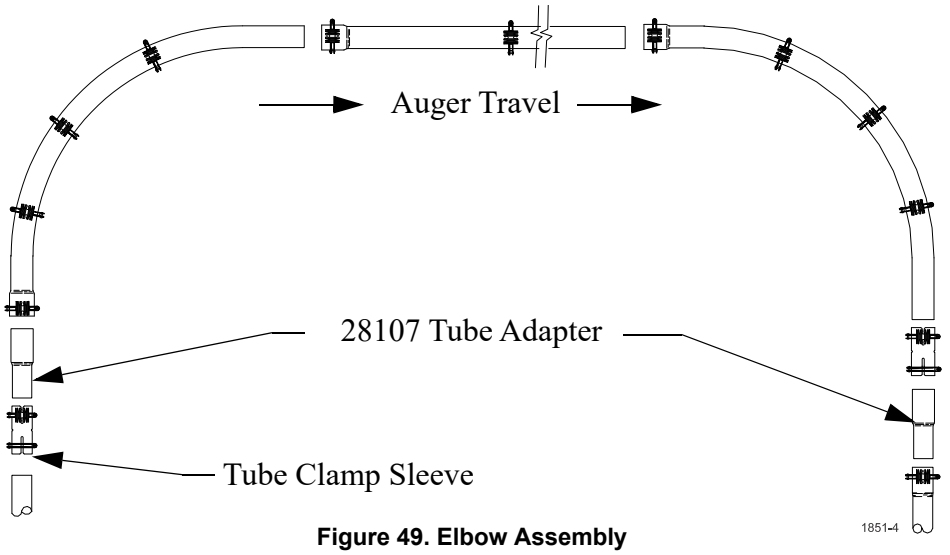


Figure 49. Elbow Assembly

12. Install the remaining auger tubes, power unit bases, feeder boot, and elbows.
13. Install the service section as shown in **Figure 50.**

Cut the belled end of the auger tube leaving 15" *[380 mm]* between tubes to install the service section.

Approximately 4" *[100 mm]* of the auger tube seam will need to be cut off to allow the service section to be installed.

Secure the service section base to the auger tubes by sliding the tubes into the base and fastening the service section clamps on top using the 1/4-20 supplied hardware. Do not install the service section cover at this time.

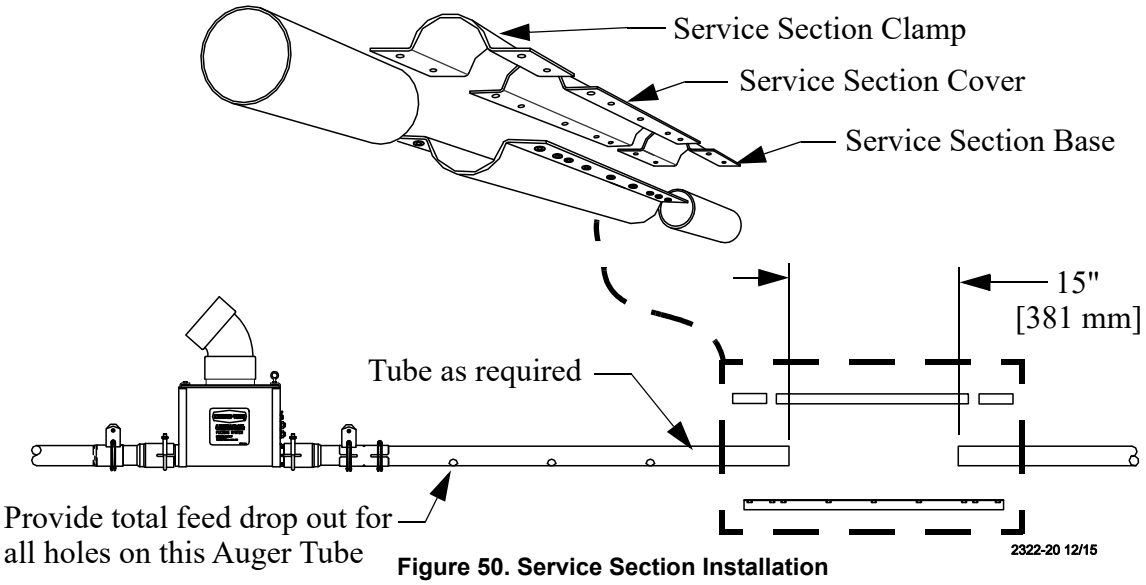


Figure 50. Service Section Installation

Feeder Control

The GENESIS® Control Pan uses a proximity switch to sense feed and cause the system to start and stop. The control switch has a sensitivity adjustment and delay adjustment screw. DO NOT ADJUST THE SENSIVITY.

The GENESIS® Feeder Control Pan is to be located just prior to the Feeder Boot location. If partial house brooding is used, the Feeder Control must be located on the side of the house next to the feeder boot on the return side of the feeder.

Do not hinder the bird movement around the Feeder Control Pan. Provide adequate lighting so the birds will not shy away from the feeder control area.

Feeder Control Pan

Control installation

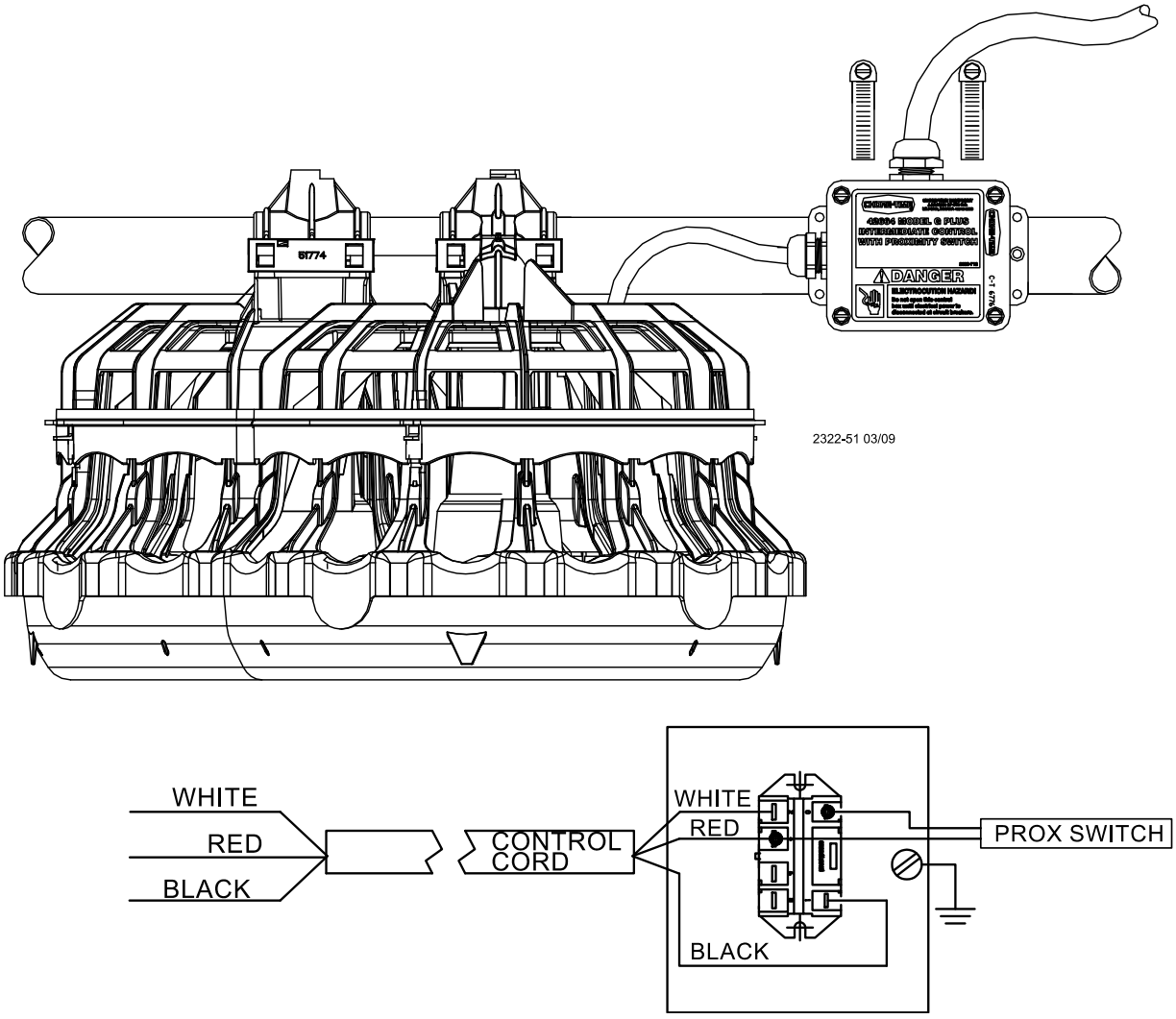


Figure 51. Feeder Control Installation

Install the Control Pan on the last tube before the Boot.(return side) The Pan will be installed the same as the other Pans. After the pan has been anchored to the tube, mount the Relay Box to the tube using two Hose Clamps, Next connect the wire from the Sensor Switch to the Relay Box. The Sensor has been preset to 3 minutes off delay.

Hanger Installation

Install the hanger around the tube as shown. The tube seam should be located in the hanger as shown. Install hangers wire form on the feeder tube at 8' *[2.4 m]* spacings as determined by the suspension drop locations. For proper installation of the hanger assembly **see Figure 52.**

Push the wire form down over the tube. Squeeze the wire form together and install the metal strap. Pull the assembly up until the hanger snaps on the tube.

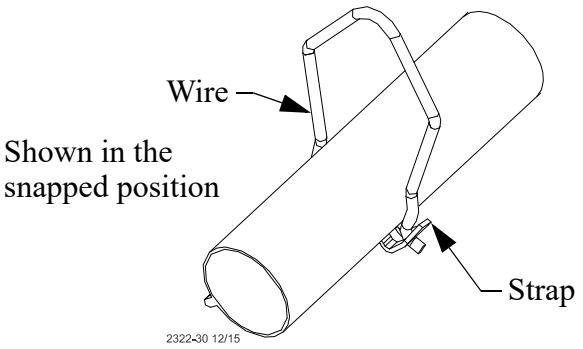


Figure 52. Hanger Installation

Install an adjustment leveler within 6" *[152 mm]* of the feeder line. **Figure 53.** shows the proper way to route the cable around the adjustment leveler.

Check all suspension drop cables before raising the feeder. Cables must be tracking properly on the pulleys.

Raise the feeder line to a convenient working height.

With the feeder line suspended measure from the floor or ceiling to the feeder line to level the system.

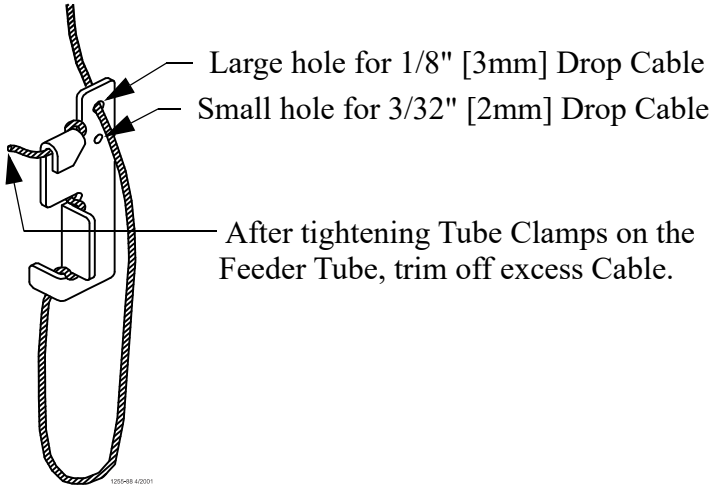


Figure 53. Adjustment Leveler Cable Threading

Installing Tube Clamps and Anti-Roost Brackets

Beginning at the boot, place a clamp/anti-roost bracket then on every fourth tube joint. **Figure 54.** shows the standard clamp and anti-roost bracket.

Systems using 10' *[3 m]* feeder tubes require a clamp/anti-roost bracket at every **fifth (5th) joint**. All other joints in the system use a standard tube clamp assembly.

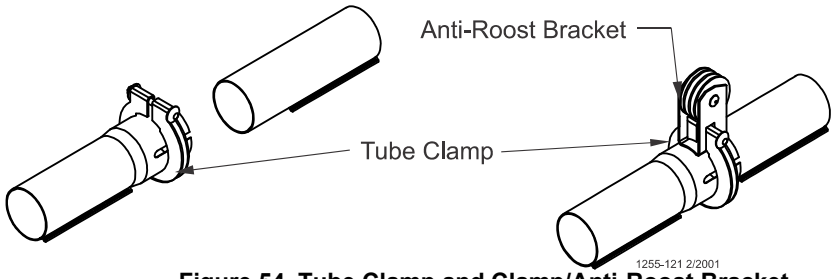


Figure 54. Tube Clamp and Clamp/Anti-Roost Bracket

Systems using 12' *[3.6 m]* feeder tubes require a clamp/anti-roost bracket at every **fourth (4th) joint**. All other joints in the system use a standard tube clamp assembly.

Continue installing clamps or clamp/anti-roost brackets the entire length of the feeder line so every joint is secured. Clamp/anti-roost brackets are used on each side of the drive units and at the elbows.

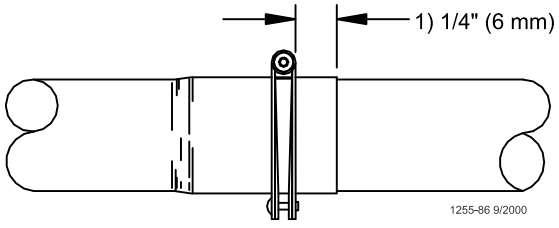


Figure 55. Tube Clamp Installation

Before tightening each clamp:

- Make sure each tube is level (Not sagging, sloping, etc.)
- Make sure the straight end of each tube is fully inserted in the belled end of the next tube.
- Make sure the hangers are properly installed with the tube seam,.....

Tighten the tube clamps on the feeder tubes. Clamp the joints securely, but do not crush the tubes.

Readjust the adjustment levelers as needed and trim off excess cable as shown in **Figure 53.**

Anti-Roost Installation

1. Unroll the anti-roost cable. Note: If the cable is unrolled as shown **see Figure 56.** Take 5 loops of the coil with one hand then changing hands to remove 5 loops as it is unrolled, it will lie flat during installation.

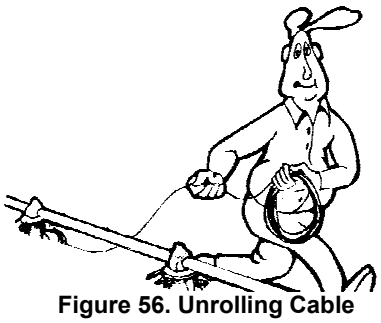


Figure 56. Unrolling Cable

2. Start at the feeder boot 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" cable clamp, **see Figure 57.**
3. Insert the cable in the insulator on the top of each grill support between the boot and the next anti-roost bracket.

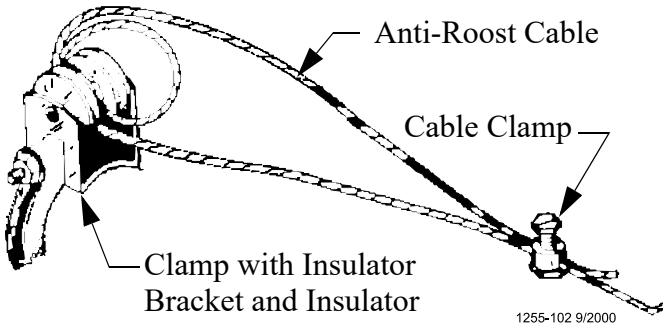


Figure 57. Anti-Roost Cable at feed drop location

4. Attach a spring in the center groove at the second anti-roost bracket and cut the cable at this point, **see Figure 58.**
5. Thread the ends of the cable through the end of the spring. Pull the cable tight so there is 3/4 to 1" *[20 to 25 mm]* of stretch in the spring. Clamp the cable to form a loop and cut off any excess, **see Figure 58.**
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" cable clamp, **see Figure 58.**

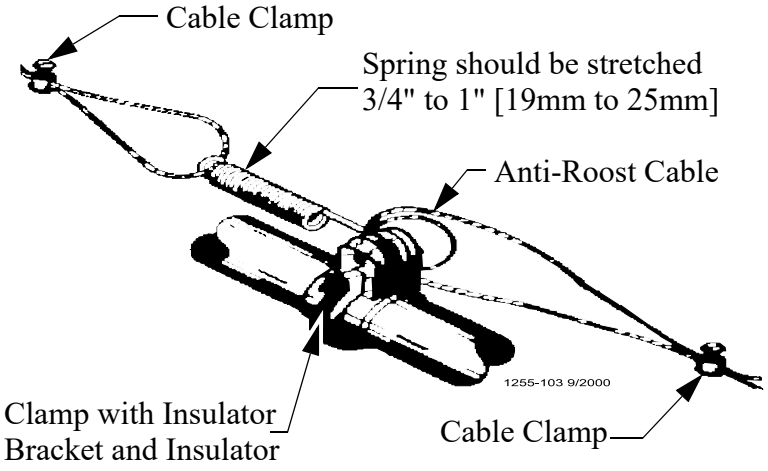


Figure 58. Anti-Roost Mid-line Connection

7. Run the cable to the next insulator, attach a spring in the center groove a 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 this installation until the anti-roost cable is installed along the entire feeder line.
9. At the control pan, after clamping the cable to the spring, cut the cable about 8 to 10" *[200 to 250 mm]* 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 the cable clamp supplied with the control unit, **see Figure 59.**

10. Install the wire form on the control unit insulators. Be sure the guard snaps into the retainers molded into the insulators, **see Figure 59.**
11. Anti-Roost clamps must be installed around the elbows, **see Figure 60.**

The anti-roost wire is provided to be used around the elbows. Snap it down in the center groove of the insulators on the elbows, **see Figure 60.**

Install a jumper wire from the training cable to the anti-roost wire using a supplied cable clamp.

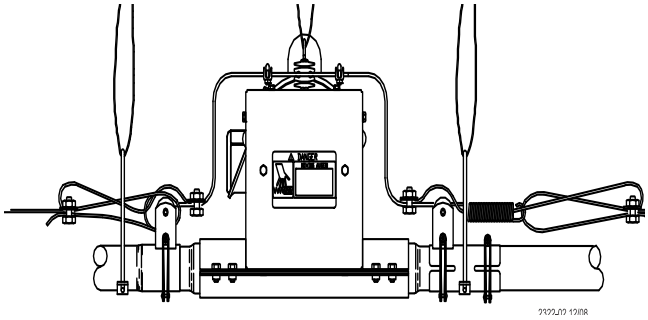


Figure 59. Anti-Roost Installation at the Drive Unit

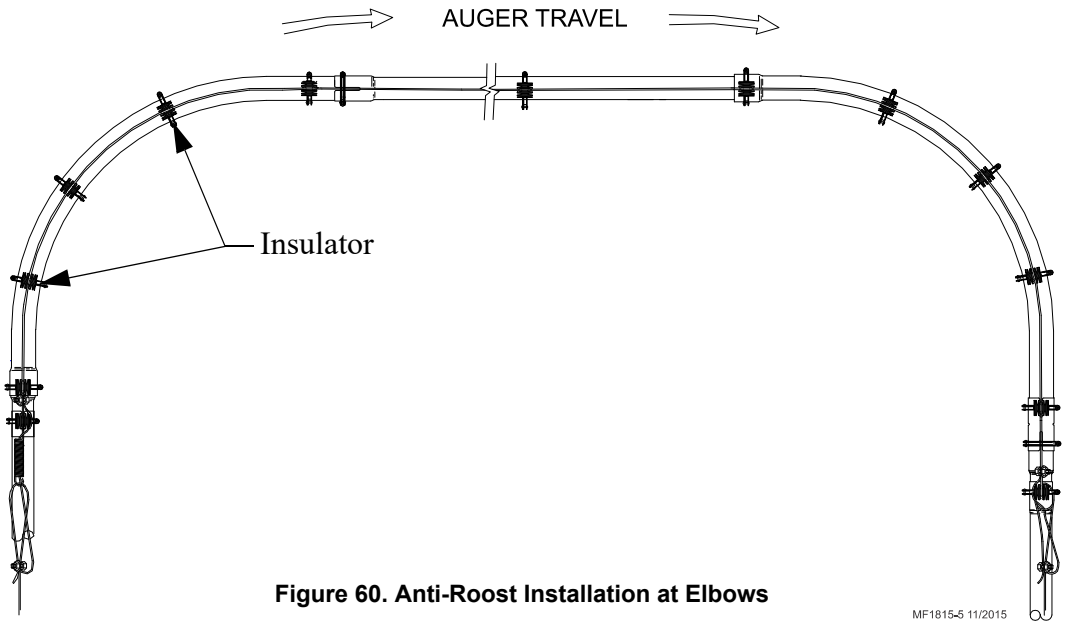


Figure 60. Anti-Roost Installation at Elbows

12. Continue installing the Anti-roost Cable, Spring, etc. similarly around the system.
13. Install the high voltage wire from the insulator on one side of the boot to the insulator on the other side of the boot, **see Figure 61.**

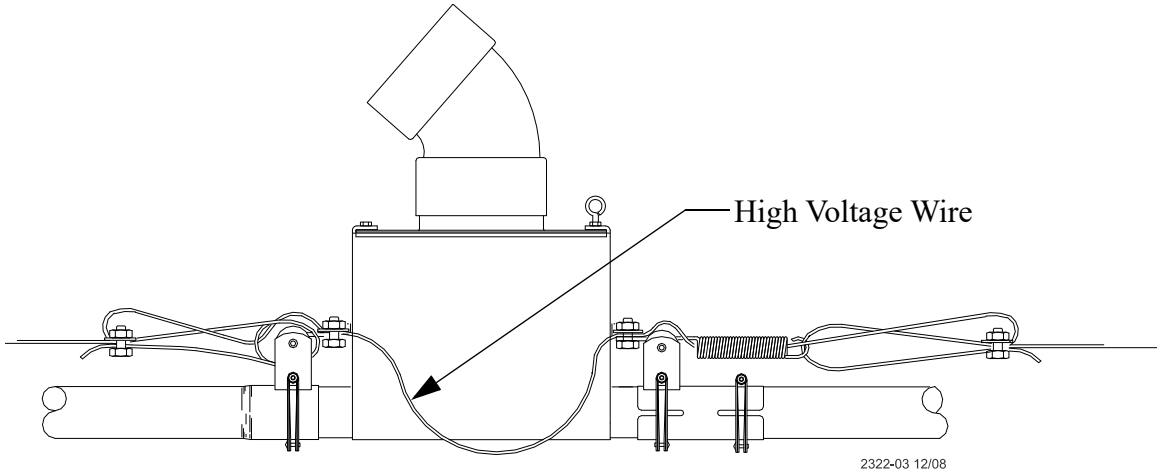


Figure 61. High Voltage Wire Installation

14. Install the line Charger to the side of the Feeder Tube with two (2) Tube Clamps (included in the parts package). Connect the charge cable to the Anti-roost Line using the supplied Cable Clamp, **see Figure 62.**

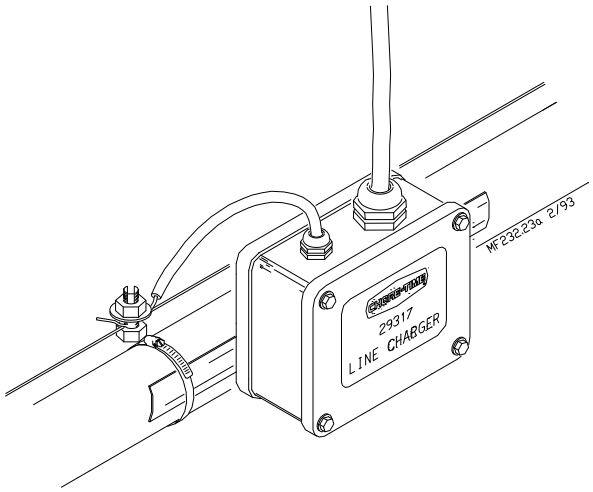
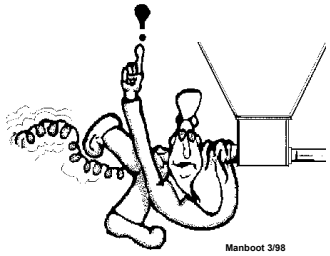


Figure 62. Line Charger Installation

15. The anti-roost system *must* be on a separate electrical circuit. This allows the system to be disconnected by a switch near the door. Use only the voltage listed on the line charger to operate it.

Auger Installation

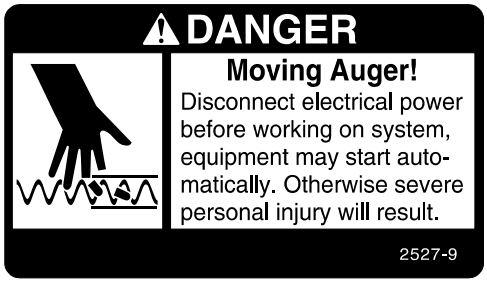
NOTE: Use extreme caution when working with the auger. The auger is under tension and may spring causing personal injury. Wear protective clothing, gloves, and safety glasses when working with the auger.



BE CAREFUL WHEN WORKING WITH THE AUGER!

To avoid kinking the auger, be careful not to drop the rolled auger when handling. Inspect the auger carefully as it is installed. Small kinks may be straightened. Large kinks must be removed and the auger brazed back together.

Cut the leading 18" *[450 mm]* off each roll of auger. Also, cut out any other destroyed auger sections and reconnect the auger as specified in the auger connector or auger brazing section of this manual.



In preparation for the auger installation, complete the following.

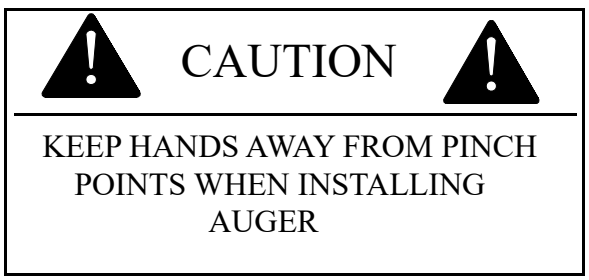
- The power unit and driver assemblies must be removed from the base connector weldment. An auger driver must be installed on each base connector weldment, **see Figure 63.**
- The service section cover must be removed to install the auger.

1. Begin feeding one end of the auger into the auger tubes through the service section.

   Chore-Time recommends always feeding the auger into the tubes from the outside of the coil (this has a plastic cap on the end of the auger). This will insure the auger flightings will match.

   Push the auger, by hand, to the first auger driver. The auger driver may then be used to pull the auger through the tubes. An auger driver should be installed at each motor location to aid in pulling the auger around the system, **see Figure 63.**

2. If more than one auger is to be installed, the tail end of the first auger and the leading end of the second auger must be connected with an auger connector.



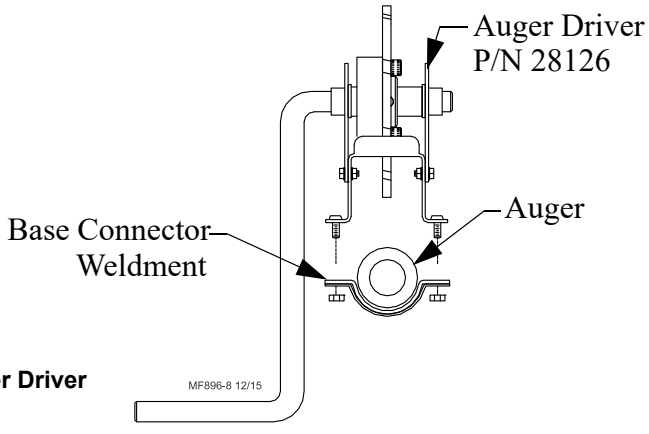


Figure 63.Auger Driver

3. Continue installing auger until it reaches the service section.
4. Cut excess auger off coil. Leave enough auger to work with when stretching and connecting the auger.
5. Pull on one end of the auger until the other end moves. Release the auger and allow it to relax to it's free length.
6. Use locking pliers to hold on end of the auger in place while stretching the auger, **see Figure 64.**

   Allow approximately 4 to 6" *[100 to 150 mm]* of auger to extend past the locking pliers to allow for auger connector (or brazing) installation.

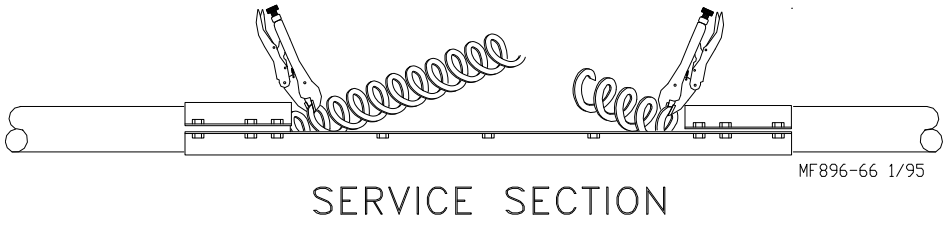


Figure 64. Stretching the auger

7. Determine the amount of stretch required.

   The amount of stretch required is 6" per 100' *[150 mm per 30 m]* of total system length.

   For example: If the system has an overall system length of 300' *[91.4 m]*, the required auger stretch is 18" *[460 mm]*.
8. From the relaxed position, stretch the auger (as determined above) by pulling on the loose end.
9. Mark the auger where it is to be cut.
10. Pull another 18" *[460 mm]* of auger and install another set of locking pliers to keep the auger from springing back into the auger tube, ***see Figure 64.***
11. Cut the auger at the mark. File the end of the auger smooth so there are no sharp edges.

    Make sure the auger is not deformed or twisted from cutting. Deformed auger will not match well with the other end of the auger and may cause problems passing through drive units.

Auger Connector Installation

The auger connector is designed to fasten the ends of the auger together without welding. Note: It is not to be used with rotating auger systems.

1. Screw the auger connector into one end of the auger.
2. Untwist the remaining end of the auger 1-1/2 turns so when it is threaded onto the first end of the auger it will return to its relaxed position. Auger ends must be overlapped **- Not butted,** when threaded into the track of the auger connector, **see Figure 65.**

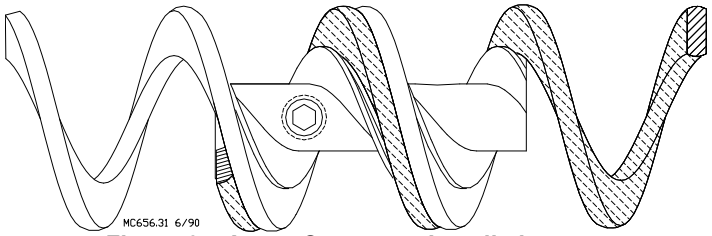


Figure 65. Auger Connector Installation

3. Stretch the auger and twist the auger ends together. Both ends of the auger should be even with the end of the auger connector.
4. Tighten each set screw until it touches the auger. Then tighten and additional **1/4** turn maximum.

   Be careful not to over tighten the setscrews and deform the auger. Over tightening the set screws may cause the auger to jam up in the power units.
5. File both ends of the auger so they are the same diameter as the rest of the auger.

Alternative auger connection - Auger Brazing

The auger may be brazed according to these instructions to obtain a strong joint.

Screw the auger together about 120 degrees (1/3 turn) and secure in the welding fixture, **see Figure 66.**

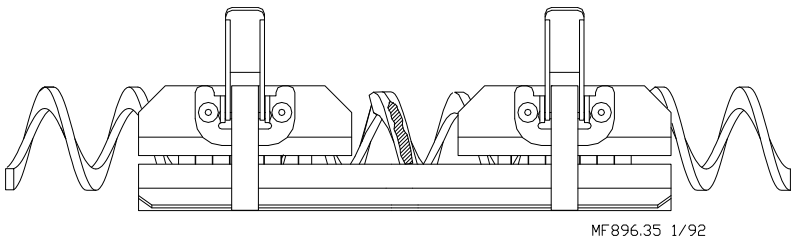


Figure 66.Welding Fixture

Slowly heat the auger and apply a braze to the **inside** of the auger. Allow it to cool slightly, then rotate the welding fixture and braze the **outside** of the auger.

The braze should extend 1/8 to 1/4" *[3 to 6 mm]* from the end of each auger. DO NOT BRAZE ALL THE WAY TO THE END. This allows the auger to flex in either direction as it travels around the elbows without becoming weakened, **see Figure 67.**

Things to remember

- To insure a good braze, clean dirt, oil, etc. off both ends of the auger.
- A bronze, flux coated filler rod is recommended.
- The joint should be smooth and well filled.
- Do not over heat the auger, apply just enough heat to melt the filler rod.
- Allow the auger to air cool.
- File all edges smooth.
- The outside diameter of the auger at the braze should not be larger than the rest of the auger.

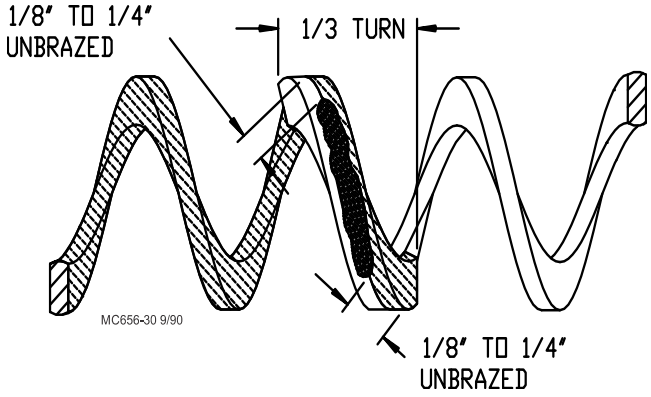


Figure 67. Brazing

Feeder Management

This section Provides you with valuable information concerning feeder operation and management. It is important that you read this information and understand how the feeding system was designed to operate. Once you become familiar with the system, you may *custom operate* it to fit your individual needs.

Initial Start-up of the GENESIS® Feeding System

The Feeding system should be operated prior to birds being housed to make sure the installation is correct, the switches function properly, and to fill the feeder lines with feed.

ESTIMATED FEED VOLUMN FOR RECHARGE FEEDER LINE:

Each new bird placement requires charging the fill system(s) and feeder loops with fresh feed.

To estimate the volume of feed required to fully charge the fill system, feeder lines and feeder pans use the following examples.

For **PULLETS** with brood windows open and feed cone level settings at #2, it will require approximately 255 pounds of feed for every 100 feet of feeder loop length. This figure would be higher if using supplemental feeders.

Example: A pullet house with two (2) 200 foot feeder loops would require approximately *1020 pounds of feed to initially charge the system. *Based on mash feed at 40 lbs/cubic foot density.

2 feed loops X 200 ft. = 400 ft. 400 ft /100 =4 4 X 225 pounds = 1020 pounds

For **Breeder Hens** with feed cone level settings at #2, it will require approximately 180 pounds of feed for every 100 feet of feeder loop length.

Example: A breeder house with two (2) 400 foot feeder loops would require approximately * 1440 pounds of feed to initially charge the system. * Based on mash feed at 40lbs/per cubic foot density.

2 feed loops X 400 ft = 800ft. 800 ft /100 = 8 8 X 180 pounds = 1440 pounds.

It is common practice to use partial house brooding during the early days of breeder pullet production. The GENESIS® pullet buildings have the feeder split in 4 loops. Only the two loops in the brood area will be operated during brood time. The Genesis® Breeder building will have two loops.

The feeder tubes and Auger are supplied from the factory with a protective oil coating that will cause the system to deliver feed at a reduced rate. The oil coating will also create a larger load on the power unit (motor) until the system has been cleaned of the oil.

Feeding controls

The following controls may be used to supply start and run times. The loop control allows manual or auto operation of the individual feeder loops. With time set on the timer controls, you may operate the feeder loops manual.

The GENESIS® Feeding System may be controlled by any of the following controls. The 34380 Control Panel or the 50360 Breeder Control with the 50388, 8 Channel Timer. Refer to the instructions supplied with each control for information. The GENESIS® system may also be controlled by the Chore-Tronic 2 with the breeder chip.

See the individual instruction manuals for operation information.

Start up operation

1. Lower feeder lines so the feed pans are resting on the floor. Although the major weight of the feeder lines will be on the floor, do not remove all the weight from the suspension system and allow the cables to become slack.
2. With time set on timer control. At the loop control set the switch to manual this apply power to the feeder loops to check the operation. Allow to operate empty for 2-3 minutes.
3. With the shut-off slide on the feed bin boot closed, energize the Flex-Auger® fill system. After operation of approximately 1-2 minutes, open the boot slide 1/2 way to allow feed to be conveyed to the feeders.
4. Once feed begins to be dispensed into the feeder boot(s), manually shut-off the fill system.

5. Apply power again to the feeder lines. Operate the fill system manually to dispense approximately 50 lb. *[23 kg]* increments of feed into the feeder boot(s). Allow the feeder boot to become empty for 30 seconds between each increment to reduce load on the feeder motor. Continue this procedure until feed has been dispensed to all the feeder pans. When the feed reaches the control pan, the feeder line will be shut-off.
6. Once the feeder lines have been initially filled with feed, manually dispensing feed in 50 lb. *[23 kg]* increments will no longer be necessary. The shut-off slide on the Flex-Auger® fill system must be **completely opened.** Refer to the Flex-Auger fill system Operator's Manual for information when multiple feed bins are used.

General Operation of the GENESIS® Feeding system

These recommendations are the guideline to aid producers with the use of the feeding system. With experience a feeding program will be developed to enhance the feeding systems performance. Several factors such as feed content, type of birds, climate, lighting programs, and etc. may dictate change from these recommendations.

The GENESIS® Pullet Feeder

The pullet feeder has feed gates which allows the feeder pan, when gate is open, to be filled with feed for the brooding of young birds. Start young birds with the feeder line lowered so the feed pans are resting on the floor and the feed gates are completely open. Although the major weight of the feeder lines will be on the floor, do not remove all the weight from the suspension system and allow the cables to become slack.

It is advisable to provide supplemental feed during the first few days for the young birds. This is especially true when partial house brooding is used. Supplemental feeders such as the CHORE-TIME® E-Z START™ Chick feeder, provide extra feeding space and access to feed.

With the feeders lowered to the floor and the feed gates open, the operation of the feeder will allow a high level of feed to be placed into the feed pans making it easy for the birds to find feed, adapt to the feeder, and begin to eat.

Chore-Time recommends the pullets be started with the loop control on "AUTO" setting. This will allow the feeder loops to RUN with the control pan assemblies controlling the operation of the feeder loops.

Once the brooding is completed (at 2-3 weeks) the feed gates and supplemental feeders should be closed and the loop control should be switched to "BYPASS" setting. This will allow the feeder loops to run continuous until the daily feed ration has been drawn from the weigh bin.

The GENESIS® Breeder FEEDER

Chore-Time recommends that the breeder birds be started with the loop control on "AUTO" setting. This will allow the feeder loops to RUN with the control pan assemblies controlling the operation of the feeder loops. The feeding will be started by the timer control. The control will only need a short run time to latch in the relays to control the feeder and fill system.

The height and width opening on the feeder should be check periodicity. These setting will be determined by the bird company. (Example 44mm for width and 70mm for the height)

The scale feed amount will be set by the bird service person.

Feeder height and feed level

As the birds grow and become acclimated to the feeder pans, the feeder will need to be raised to the grow-out position. Before raising the feeder, it is recommended to allow the birds to eat the feed level down below the feed flood windows. This will ease the process of the feed flood windows closing properly.

The feeders should be set on the #2 position for pullet and hen applications. See **Figure 68.**.

The # 2 setting will allow the feeding system to maintain a full charge in the tube at all times with most feeds. Feed texture and consistency, type of bird, or other variables may make it necessary to change to another feed setting position. The combination of proper pan height, feeder setting, and feeder operation will result in optimum feeder performance (refer to **Figure 69** for pan height information). The operator will learn what performs best for his/her situation with experience

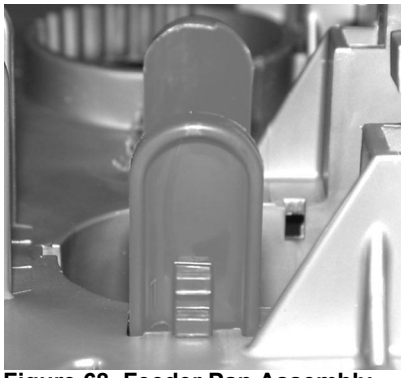
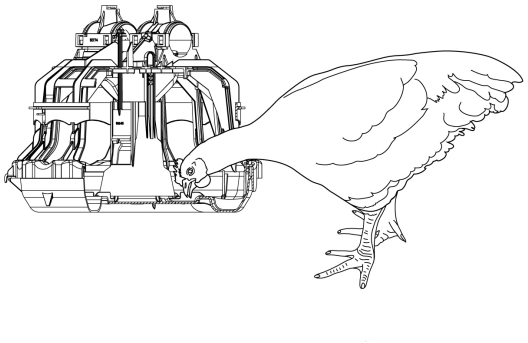
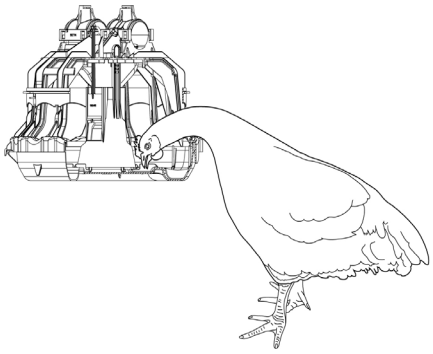


Figure 68. Feeder Pan Assembly adjustment

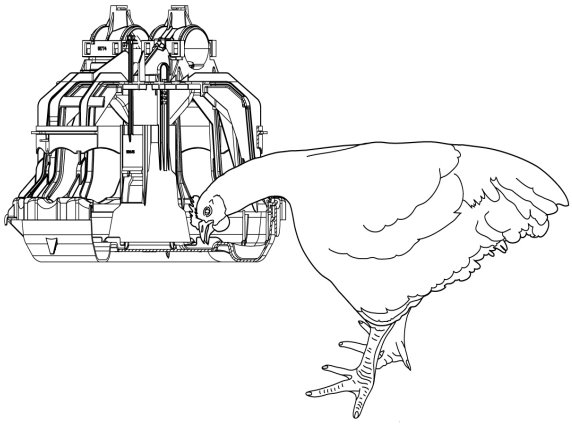
Feeder height illustrations.



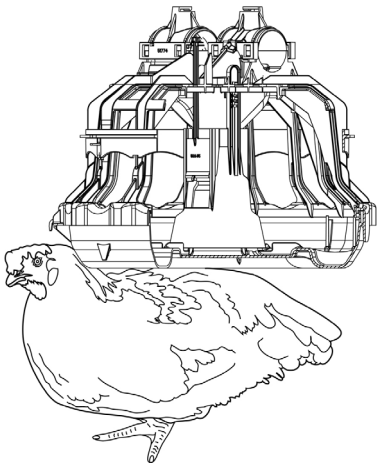
Feeder to LOW



Feeder to HIGH



Correct eating high



Feeder to HIGH

Figure 69. Feeder Pan Assembly height adjustment

Lighting programs

As lighting programs have become common place. It is recommended to always provide lighting during the feeding period of the day.

Electro-guard Operation

The electro-guard chargers should be operated on a separate electrical circuit so the anti-roost system can be shut off using a switch next to the entrance door when someone enters the building. Birds are less likely to become wild and flighty if the anti-roost is off when people are in the building.

Maintenance

Floor Feeding System Maintenance

The GENESIS® Feeding 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.

Gear Head Maintenance

Refer to **Figure 70.**

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 SAE 40W oil when necessary.

The oil in the gearheads should be replaced every 12 months with new SAE 40W 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 magnet on 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 Gearheads: Add approximately 9 oz. (266 ml) of SAE 40W oil through top hole. This should be just enough oil to reach the side Pipe Plug.

   3-Stage Gearheads (3261-9, 3261-12, 3261-14): Add approximately 13 oz. (384 ml) of SAE 40W 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.

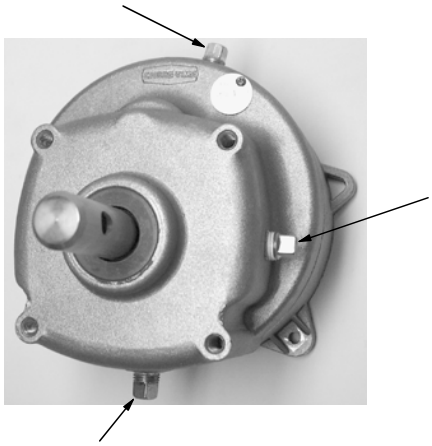
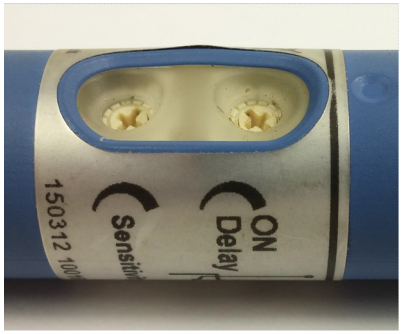


Figure 70. Gearhead Maintenance

Check equipment for loose hardware after the first flock and then every 6 months. Tighten if necessary.

Sensor Probe OFF Delay and sensitivity adjustment



The Sensitivity adjustment has been factory set and adjusting screw fixed in position with a drop of adhesive sealant.

Before attempting any adjustment of sensitivity, make sure the sensor tip is fully seated against the black feed chute in the grill assembly. With power to the control unit, the red \orange indicator light between the sensor adjustment screws should be ON, constant if there is no feed in the feed chute. Once the feed chute is full of feed, the indicator light should begin to FLASH slowly indicating the time delay OFF has begun. Once the time delay has timed out, and the control unit is full of feed, the feeder line should stop running and the indicator light should be OFF.

If sensitivity adjustment should be needed, the adhesive sealant will need to be carefully removed to allow rotation of the sensitivity screw. To adjust the sensitivity.

- With feed chute full of feed, rotate the adjustment screw to full counter clockwise position.
- Slowly rotate the screw clockwise until light just begins to FLASH slowly.
- Once the feed flows out of the feed chute, the indicator light should return to constant ON.

The OFF Time Delay adjustment has been factory set to approximately 3 minutes.The switch is designed with a 0-10 minute delay.

To adjust the time delay:

- Rotate the delay adjustment screw clockwise to increase delay time, Make small adjustments.
- Rotate the adjustment screw counter clockwise to shorten the delay time. Make small adjustments.

Feeder Line

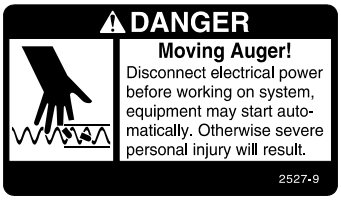
Keep anti-roost cables tightly stretched. This increases the effectiveness of the electro-guard anti-roost system and keep the pans from being tilted when birds push against them.

Remove all feed from the feeder when there are no birds in the house and when the building is washed and disinfected.

Turn the feeders off prior to removing the birds from the house. This will allow them to clean the feed out of the pans.

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

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

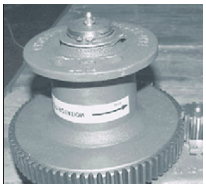


If the system must be disassembled, extreme caution must be used to prevent injury from springing auger. Refer to **Figure 71.**

Power Lift Winch Maintenance

Refer to **Figure 71.**

Grease the winch every 6 months with 1 to 2 shots of common industrial or automotive grease.
DO NOT OVER GREASE THE WINCH.



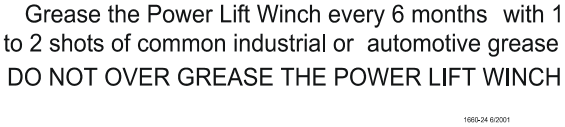


Figure 71. Maintenance to the Power Lift Winch

Agri-Timer

Replacing the batteries in the Agri-Timer

A. Disconnect electrical service at the breaker.
B. Remove the (6) screws and the face of the control.
C. Cut the wire ties to allow for battery removal.
D. Replace the existing batteries with new "AAA" batteries.
E. Replace wire ties to secure the new batteries in place.
F. Reinstall the face of the timer and secure using (2) screws previously removed.
G. Reconnect electrical service to the Agri-Time Control.

Wiring

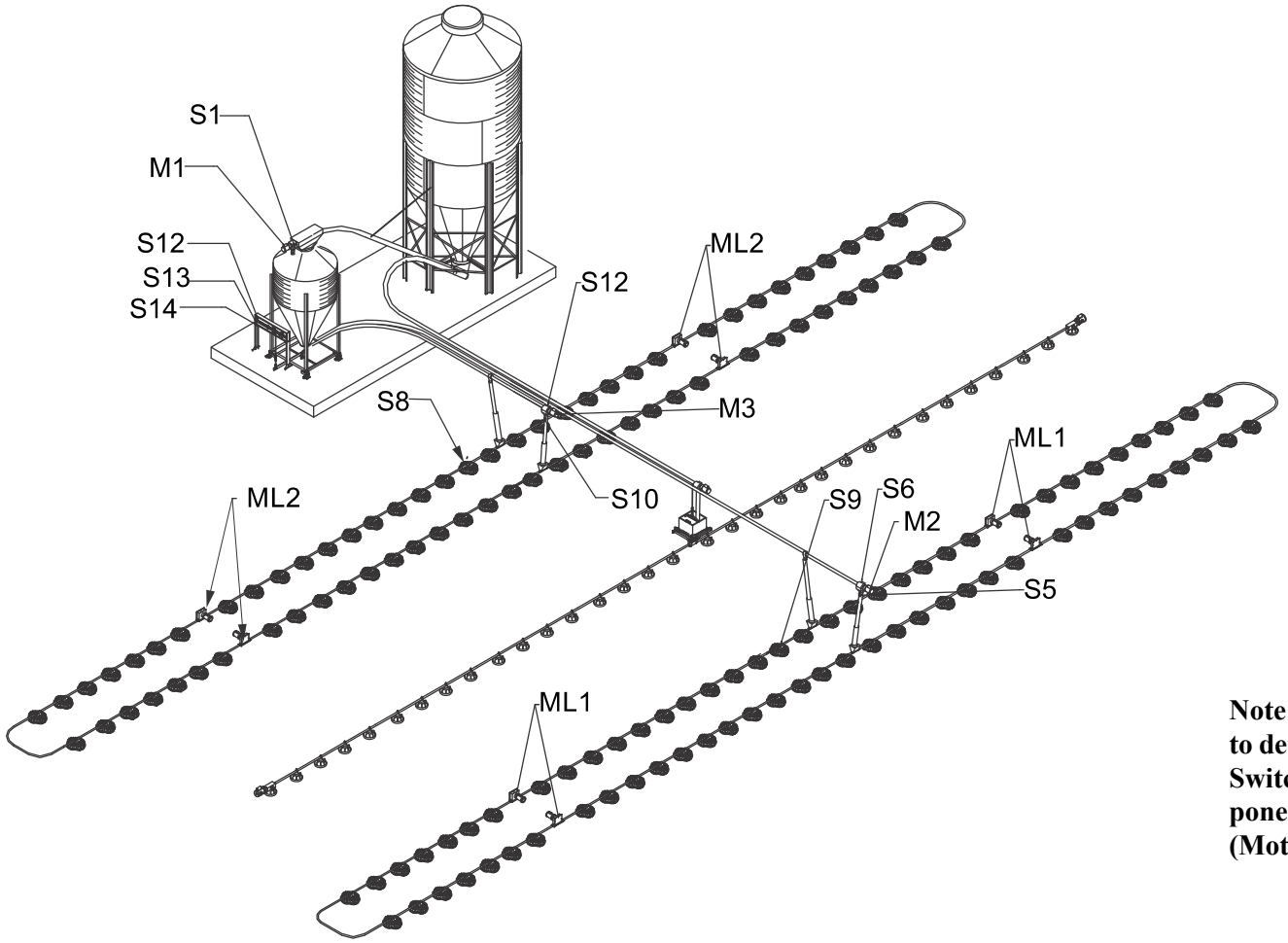
Disconnect electrical power before inspecting or servicing the equipment, unless the maintenance instructions specifically state otherwise.

Wire the electrical equipment according to the wiring diagrams in this manual.

All field wiring must be done by a qualified electrician, according to local and national codes. Failure to do so may cause personal injury or damage to the equipment.

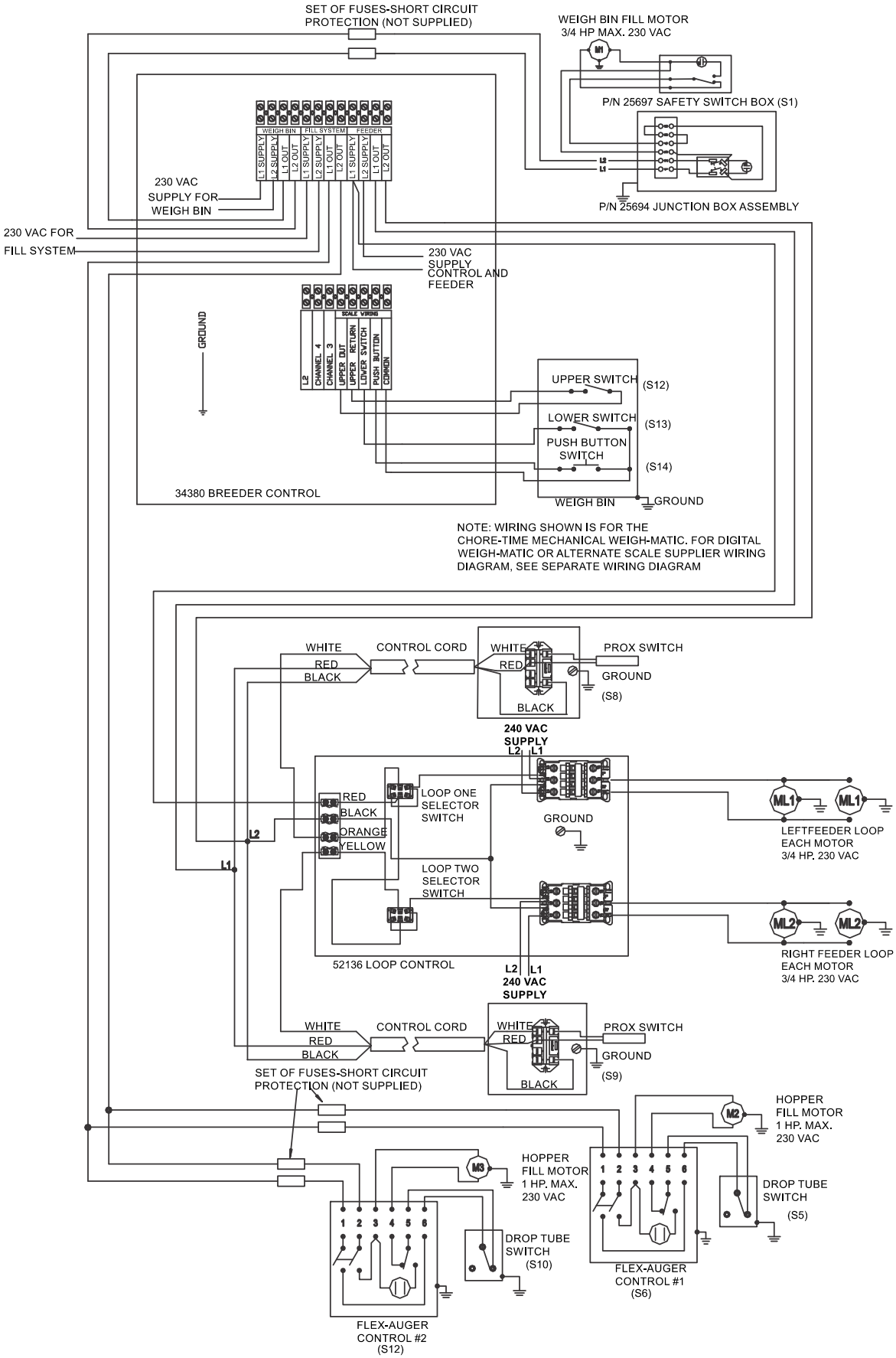
Ground all electrical equipment!

Do not operate the equipment without the covers and guards properly positioned.

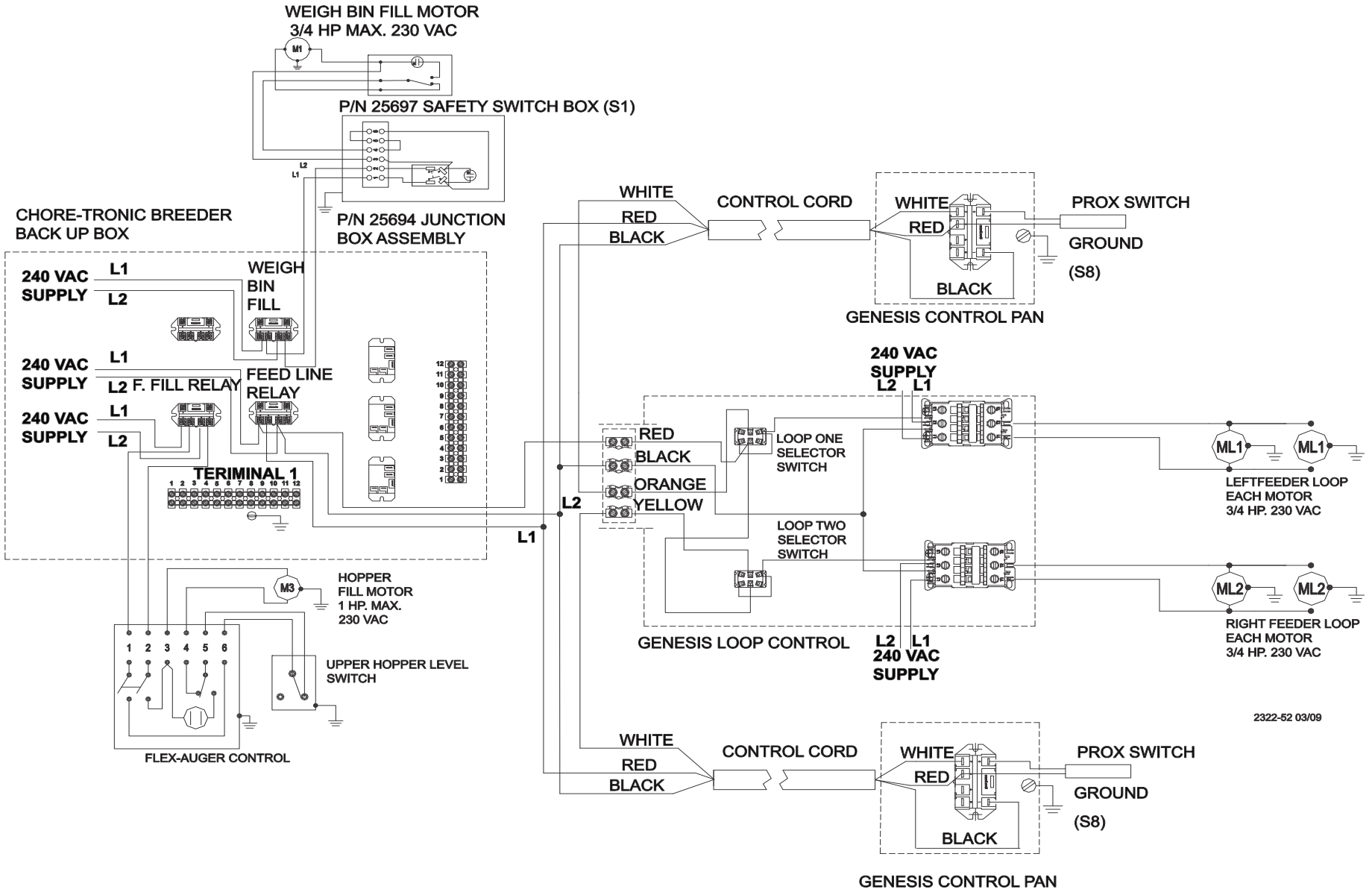


Note: Refer to this diagram as required to determine the location of Power Units, Switches, Control Units etc. Each component is coded with M1, S2, ML1 (Motor #1, Switch #2, Drive Unit #1).

GENESIS® Feeder with 34380 Breeder Control

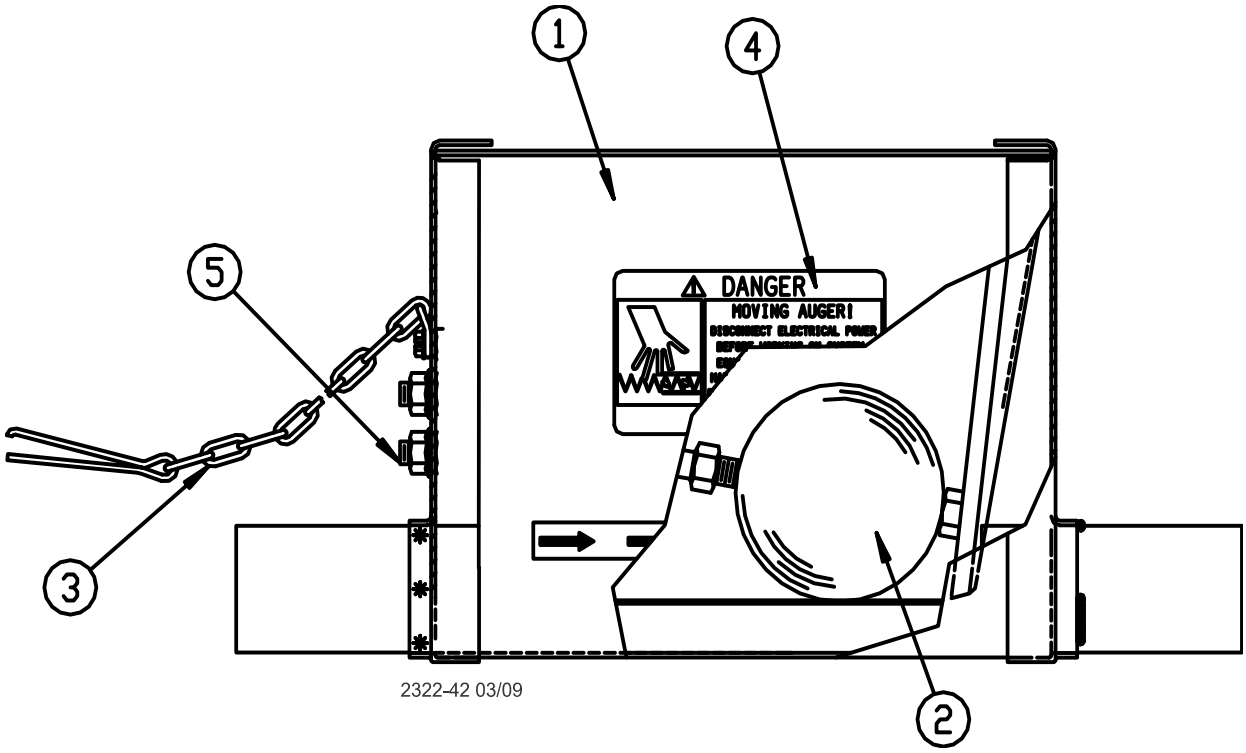


GENESIS® Feeder with CHORE-TRONICS® Control



PART LIST

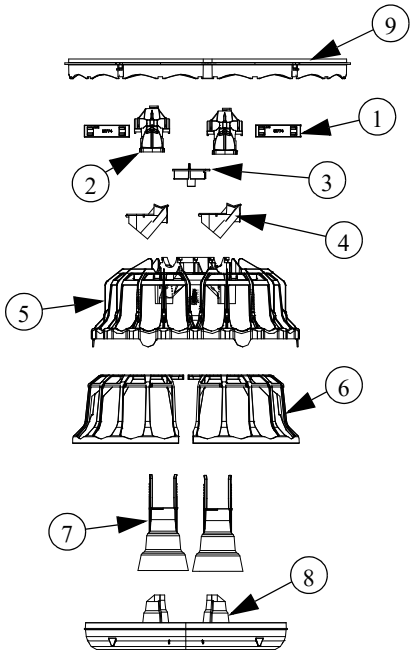
Feed Line Boot (Part No. 34824)



Item	Part No.	Description
1	34811	Boot Weldment
2	34804	Agitator Assembly
3	2683	Latch Pin Assembly
4	2527-9	Danger Decal
5	34823	5/16" U-bolt

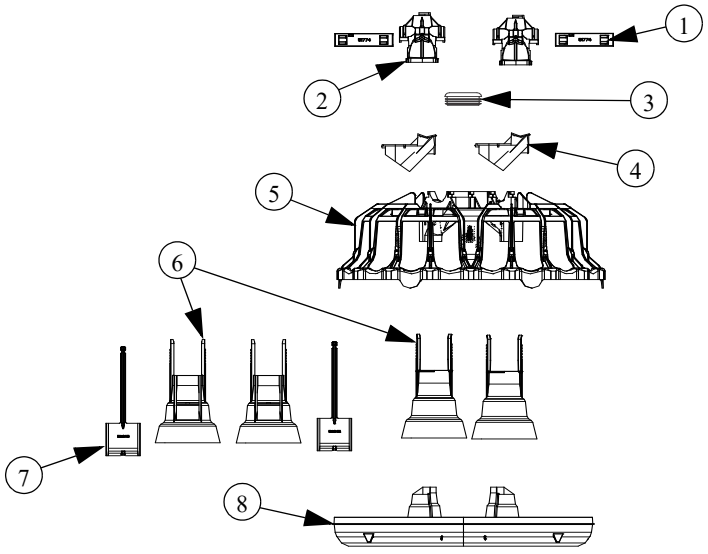
GENESIS® Feeder Pan Assemblies

Breeder Pans (51367 and 51366)



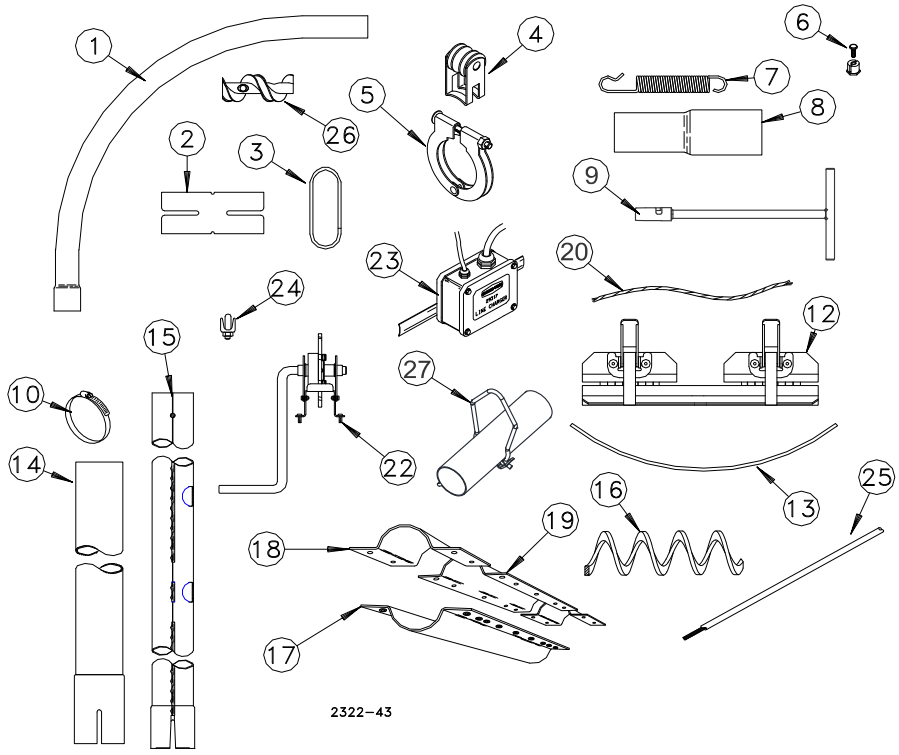
		51367 Breeder Pan w/out Height Ring	51366 Breeder Pan with Height Ring
Item	**Description**	**Part No.**	
1	Slide Lock	51774	51774
2	Support Cap	50340	50340
3	Adjustable Knob	50338	50338
4	Feed Chute	51862	51862
5	Main Grill	50339	50339
6	Adjustable Grill	50337	50337
7	Feed Cone	50457	50457
8	Feeder Pan	50342	50342
9	Height Ring	--	50341

Pullet Pans



		51369 Breeder Pan w/out Windows	51368 Pullet Pan with Windows
Item	**Description**	**Part No.**	
1	Slide Lock	51774	51774
2	Support Cap	50340	50340
3	Plug	29523	29523
4	Feed Chute	51862	51862
5	Main Grill	50339	50339
6	Feed Cone	50457	50344
7	Feed Gate	--	50345
8	Feeder Pan	50342	50342

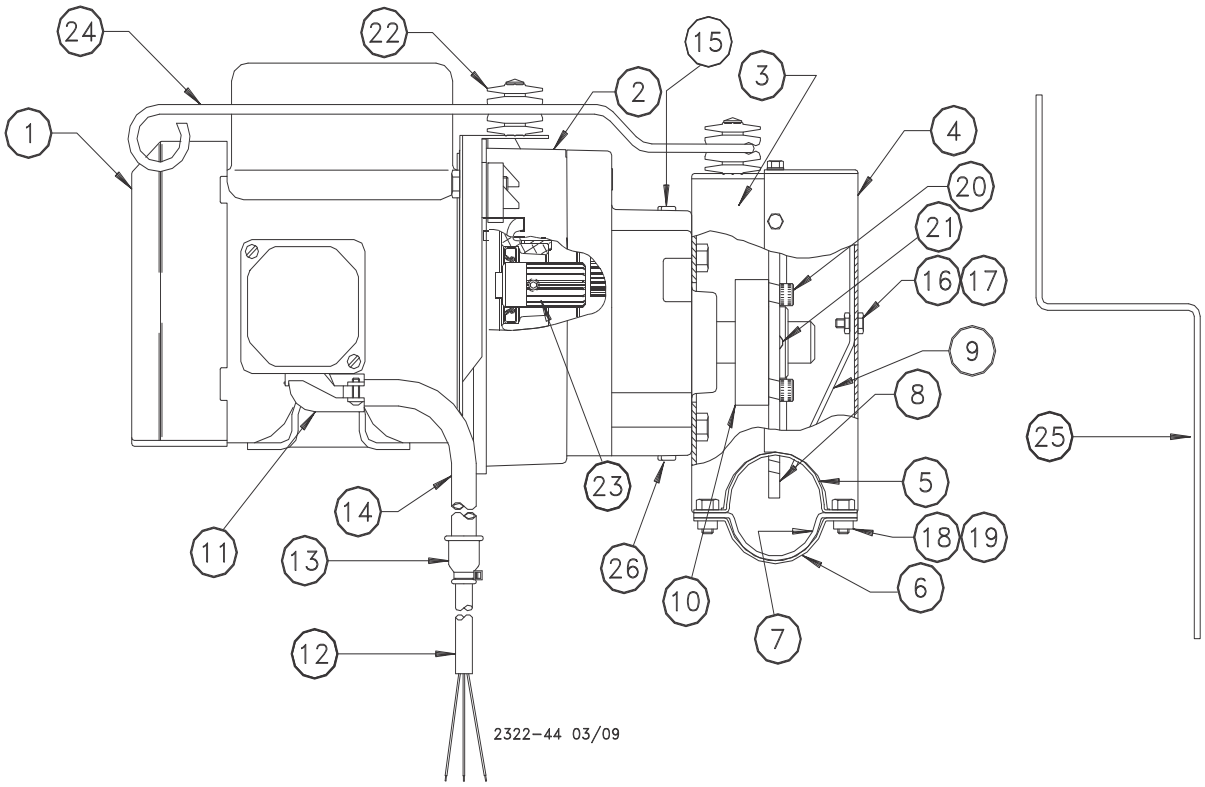
Line Components



Item	Part No.	Description
1	40532	90 Steel Elbow
2	2123 29691	1.75 Tube Connector 2" Tube Connector
3	4207	2" Hanger
4	24060	Insulator Bracket
5	24063 29520	1.75 Dia. Tube Clamp 2" Tube Clamp
6	1826	Small Clamp
7	7551	Anti Roost Spring
8	28107	Tube Adapter
9	53520	Gate Tool
10	8643	Band Clamp
12	25494	Welding Fixture
13	1922	1/16" Cable

Item	Part No.	Description
14	28128	Extension Tube
15	50830-1 50830-2 50830-3 50830-4 50830-5 50830-6 50830-7 50830-8	10’ 4 hole Tube 12’ 4 hole Tube 10’ 3 hole Tube 10’ 4 hole 4 Ez hole 12’ 4 hole 4 Ez hole 12’ 3 hole 10’ 3 hole 3 Ez hole 12’ 3 hole 3 Ez hole
16	28103-0	Auger
17	28153	Service Section Base
18	28151	Service Section Clamp
19	28152	Service Section Cover
20	1922	1/16" Cable
22	28126	Auger Driver
23	29317	Line Charger
24	14898	1/8" Cable Clamp
25	28994-330	Hi Voltage Cable
26	29055-2	Auger Connector
27	51763	Tube Hanger

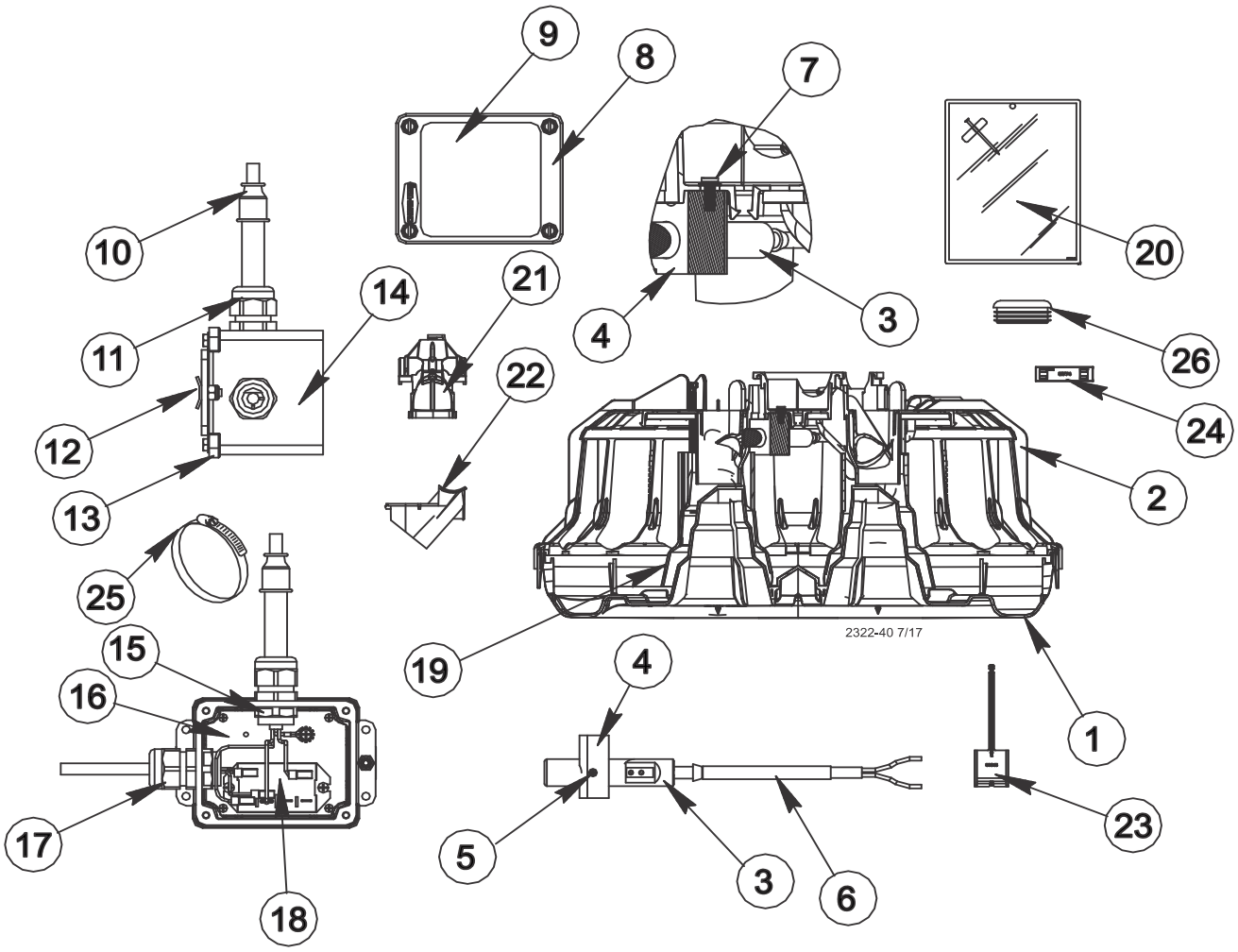
GENESIS® Drive Units: 51357 1 PH., 52614 3 PH. 50 HZ, 52615 3 PH. 60 HZ.



Item	Part No.	Description
1	5051	3/4 Hp 1 Ph 50/60 Hz Motor
	28034EUR	3/4 Hp. 3 Ph 50/60 Hz Motor
2	3261-8	129 Rpm Gearhead
	52616	156 Rpm Gearhead
3	28149	Drive Unit Housing
4	8208	Drive Unit Cover
5	9634	End Connector
6	9636	Base Connector
7	8210	Wear Shoe
8	8463	Drive Gear
9	24674	Auger Brace
10	8213	Drive Gear Hub
11	4228	Connector 90 Deg.
12	27719	Cord Assembly
13	7815	Reducer Seal
14	7814	Gray Vinyl Tube

Item	Part No.	Description
15	3523	Vent Plug
16	4416-3	10-24 X .50 Hex Hd Screw
17	34019	10-24 Lock Nut
18	1269	Lock Nut 1/4-20
19	1487	1/4-20 X .500 Hex Bolt
20	6850-1	5/16-18 X /875 Shcs
21	8699	Dowel Pin
22	28104	Anti Roost Insulator
23	3245	Pinion For 3261-8
	52617	14 Tooth Pinion For 52616
24	28150	Anti Roost Wire
25	29695	Hi Voltage Jumper
26	30160	Drain Plug

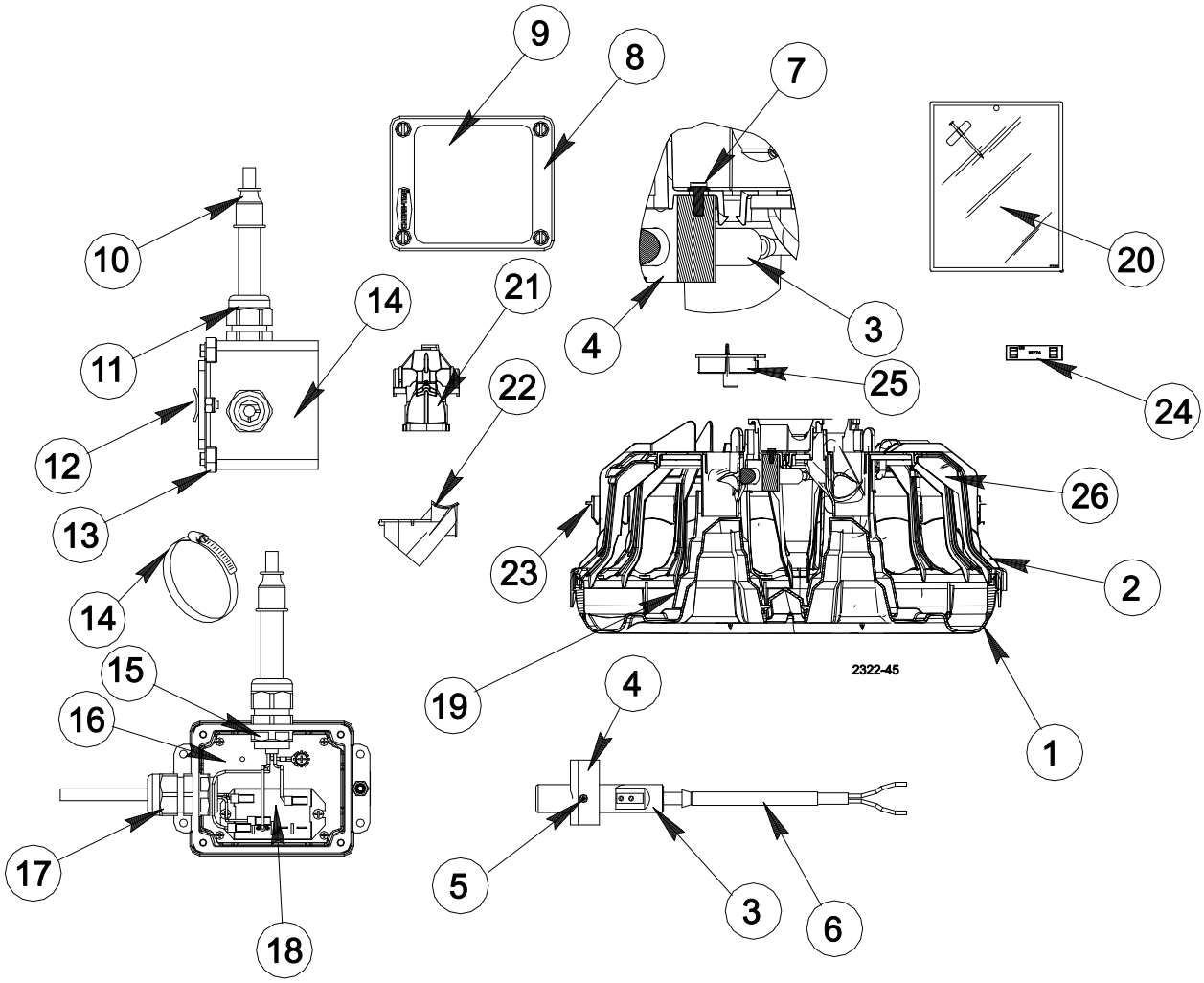
GENESIS® Pullet Control Pan: 52272



ITEM	PART NO.	DESCRIPTION
1	50342	Feeder Pan
2	52134	Machined Grill
3	52312	Sensor Switch
4	52313	Sensor Anchor Block
5	52314	#8 X .25 Plastic Screw
6	14454-10	Black Tubing
7	28075	#10 X .375 Sftp
8	6776	Junction Box Cover
9	2529-924	Control Decal
10	4999-114	Power Cord Assembly
11	24685	Liquid Tight Connector
12	52315	Mount Bracket
13	6956	Junction Box Mount Cov

ITEM	PART NO.	DESCRIPTION
14		
15	43662	Plastic Conduit Nut
16		
17	23779	Liquid Tight Connector
18	28904	Power Relay
19	50344	Feed Cone
20	52350	Management Guide
21	50340	Support Cap
22	51862	Feed Chute
23	50345	Feed Gate
24	51774	Slide Lock
25	3527	Band Clamp
26	29523	Cap Plug

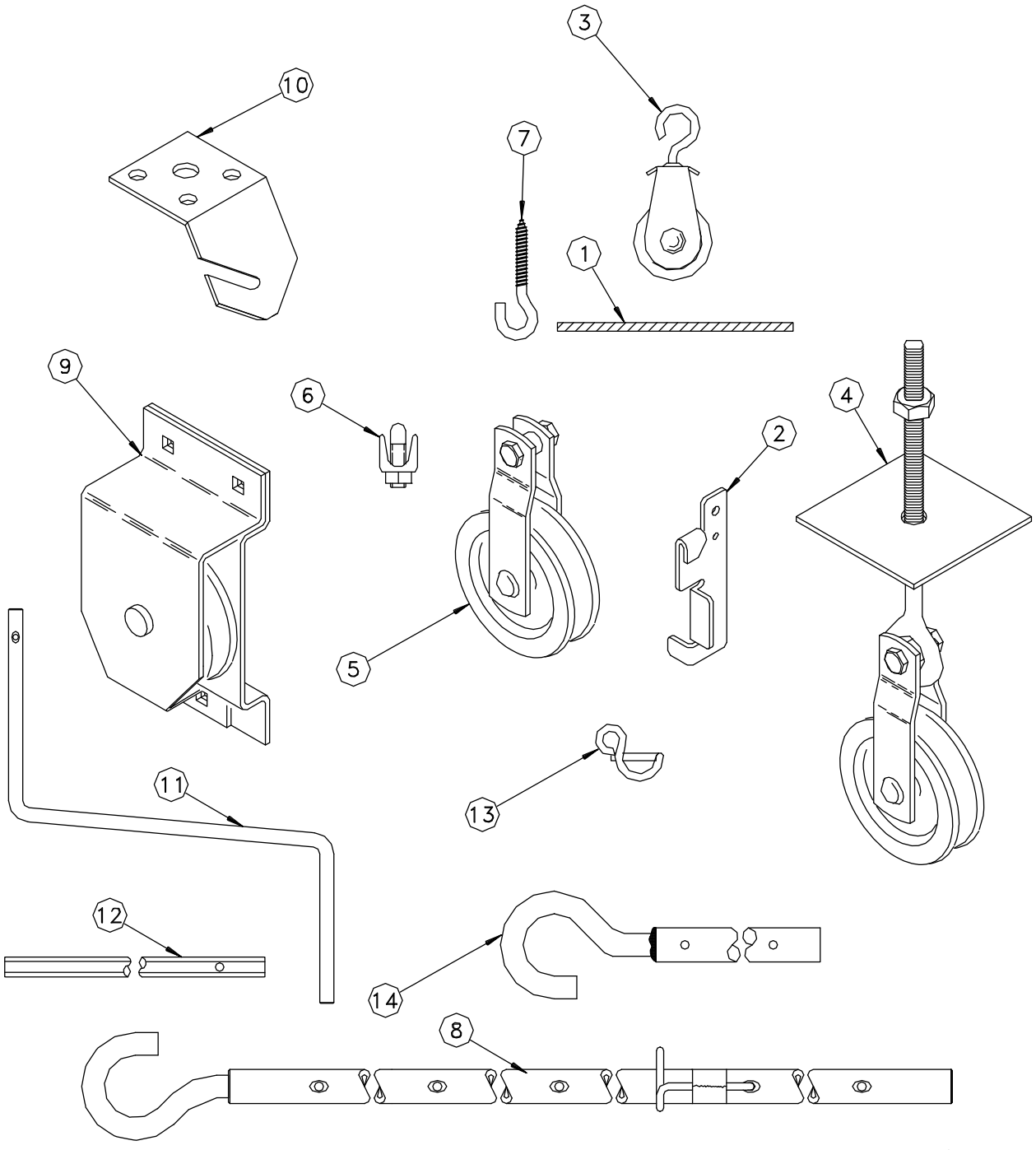
GENESIS® Breeder Control Pan: 52132



ITEM	PART NO.	DESCRIPTION
1	50342	Feeder Pan
2	52134	Machined Grill
3	52312	Sensor Switch
4	52313	Sensor Anchor Block
5	52314	#8 X .25 Plastic Screw
6	14454-10	Black Tubing
7	28075	#10 X .375 Sftp
8	6776	Junction Box Cover
9	2529-924	Control Decal
10	4999-114	Power Cord Assembly
11	24685	Liquid Tight Connector
12	52315	Mount Bracket
13	6956	Junction Box Mount Cov

ITEM	PART NO.	DESCRIPTION
14	3527	Band Clamp
15	43662	Plastic Conduit Nut
16	52316	Relay Mount Bracket
17	23779	Liquid Tight Connector
18	28904	Power Relay
19	50344	Feed Cone
20	52684	Management Guide
21	50340	Support Cap
22	51862	Feed Chute
23	50341	Height Ring
24	51774	Slide Lock
25	50338	Adjustment Knob
26	50337	Adjustable Grill

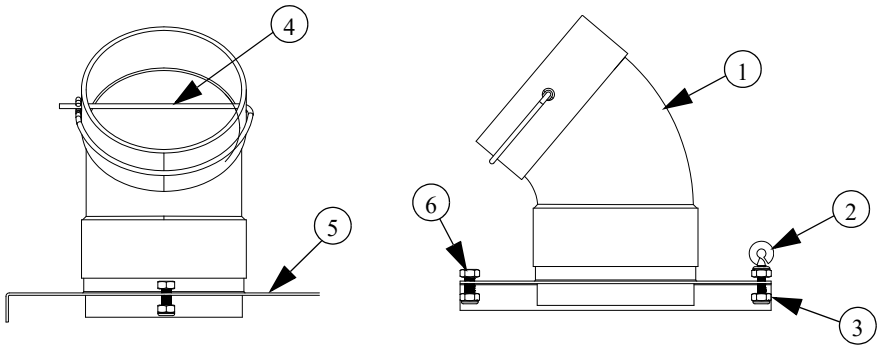
Feeder Line Suspension



Item	Part No.	Description
1	1213 27975	3/16"Cable 7x7 1/8" Cable
2	14337	Cable Lock
3	3004	Small Pulley
4	2014	Heavy Duty Pulley
5	2500	Pulley
6	732	3/16" Cable Clamp
7	2014	Large Screw Hook

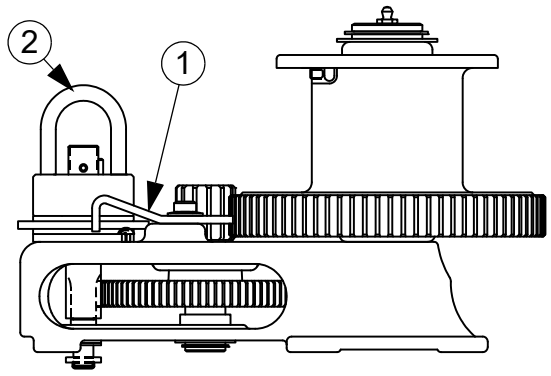
Item	Part No.	Description
8	47637	Extendable Drive Tube
9	28429	Pulley Assembly
10	28550	Ceiling Hook
11	3148	Handle Shank
12	2886	Drill Adapter Shaft
13	3761	Winch Handle Pin
14	2884-1	Drive Tube 4’

Boot Adapter Part No. 52271



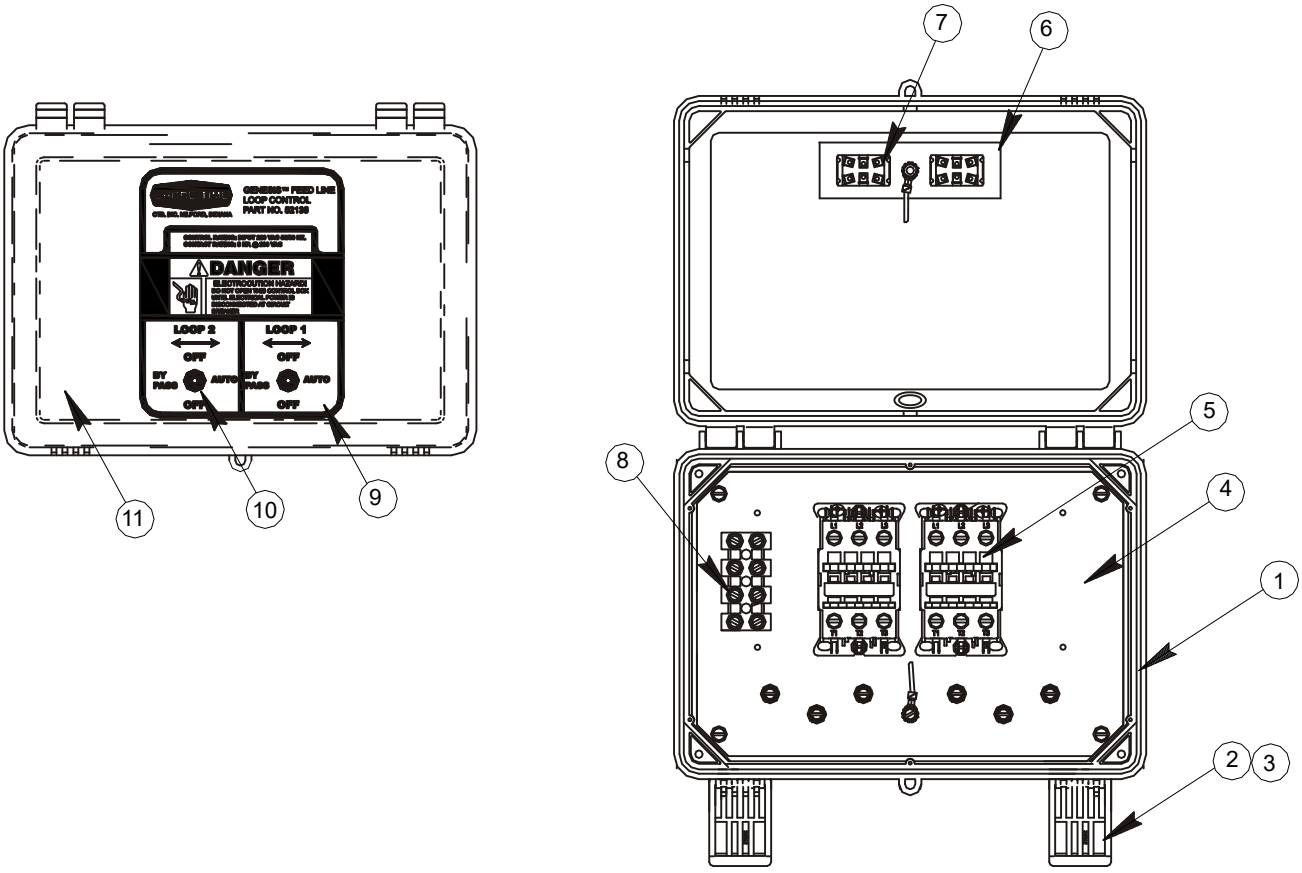
Item	Part No.	Description
1	52269	Elbow Assembly
2	22911	1/4-20 Eye Bolt
3	1269	1/4-20 Lock Nut
4	41657	Hair Pin Large
5	41518	Adapter Plate
6	1487	1/4-20 X .5 Hex Bolt

Power Winch (Part No. 47687)



Item	Qty.	Description	Part No.
1	1	Pawl	47687-5
2	1	Input Shaft Assembly	47687-1

GENESIS® Loop Control: 52136



Item	Part No.	Description
1	30860-3	8 X 10 Box
2	30863	Pivet Latch
3	30862	Box Latch
4	52167	Rear Mount Panel
5	49949-230	Contactor
6	52163	Grounding Panel
7	50699	Dpdt Switch
8	34925-4	Terminal Block
9	2529-926	Cover Decal
10	1739	Switch Boot
11	52165	Lid Gray Machined

MADE TO WORK.

BUILT TO LAST.®

Revisions to this Manual

Page No.	Description of Change	ECO
58	Was 2883 Winch	35577

For additional parts and information, contact your nearest Chore-Time distributor or representative.
Find your nearest distributor at: www.choretime.com/contacts

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