CHORE-TIME®

MODEL ATF™ and MODEL ATF™ PLUS Feeding System

Installation and Operators Manual

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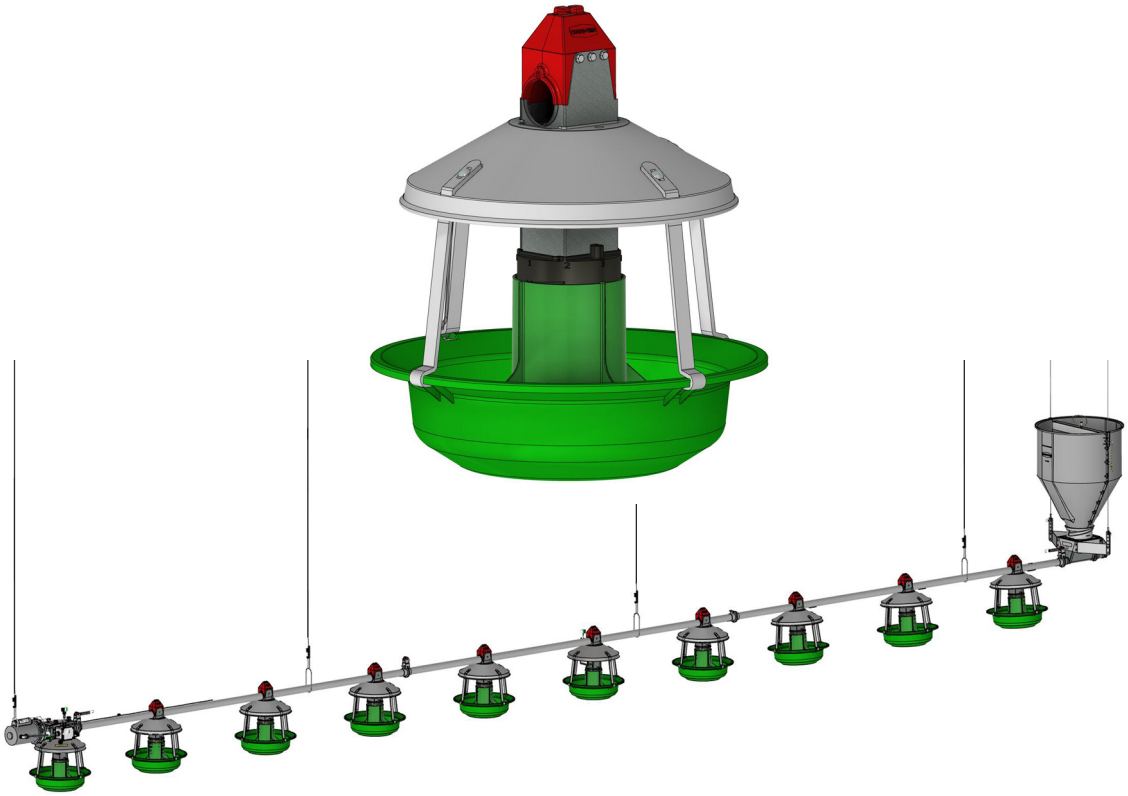

July 2022

MF2505A

Introduction

Limited Warranty

CTB, Inc. ("Chore-Time") warrants the new CHORE-TIME Model ATF^{TM} and ATF^{TM} Plus Feeders 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, WITHOUT 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

Safety

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.

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.

Follow Safety Instructions

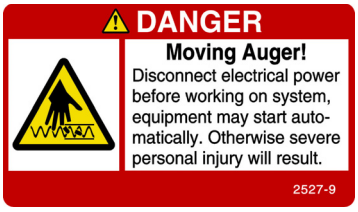
Carefully read all safety messages in this manual and on your equipment safety signs. Follow recommended precautions and safe operating practices.

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

Decal Descriptions

DANGER: Moving Auger

This decal is placed on the End Cap Weldment and Clean-out cover. Severe personal injury will result, if the electrical power is not disconnected, prior to servicing the equipment.



DANGER: Electrical Hazard

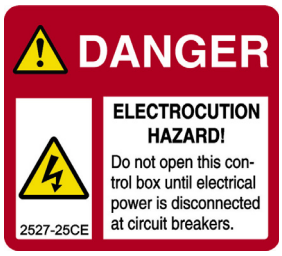
Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically state otherwise.

Ground all electrical equipment for safety.

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

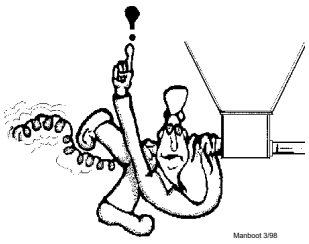
Ground all non-current carrying metal parts to guard against electrical shock.

Electrical disconnects and over current protection are not supplied with the equipment.



DANGER: Springing Auger

Use caution when working with Auger. Springing Auger may cause personal injury.



Attention: Read the Manual

See the manual for detailed installation instructions.

General

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.

The Chore-Time Adult Turkey Feeding System's have been designed to feed poultry. 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.

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.

Planning

MODEL ATF™ and MODEL ATF™ PLUS Recommendations & Guidelines

The Chore-Time Adult Turkey Feeder is recommended for birds 5 to 6 weeks old and over. **See "Manufacturer's Recommendations: Birds per Pan" on page 8** for feeder space recommendations.

Adult Tom Turkeys: 40 to 50 birds per pan.

Hen Turkeys: 60 birds per pan.

Operate the equipment, if possible, before birds are housed to check installation, switch operation, and fill the feeder lines with feed.

The oil coating on new auger will cause the auger to deliver feed at a slower rate. To reduce the load on the motor while the equipment is being broken in, auger 50 pound (20 kg) increments of feed out to the pans. Allow the system to run for approximately 30 seconds, then add another 50 pounds (20 kg) of feed. Repeat this procedure until feed has been supplied to all the pans. Do not feed grit with the Adult Turkey Feeder.

Birds avoid dark or cold areas. Do not locate a control unit in such an area. Also, do not locate the control unit close to the end of the building. Allow a minimum of 10 feet (3 m) between the control unit and the building wall. If these problems are anticipated, they can be corrected during installation. Otherwise, artificial lighting can partially correct the problem.

During the break-in period, check the feed level in the pans. Normally, 1" to 1-1/2" (25 to 38 mm) of feed in the pan controls feed waste. When birds are housed, monitor the feed level in the pans and adjust as needed. Note: When birds are debeaked, a deeper feed level is required. Adjust the feed level by raising or lowering the feed level cone.

The height of the feeder line can be adjusted easily and it should be raised periodically as birds grow. Keep the lip of the pan approximately at the point where the bird's neck joins the breast so that the birds must reach slightly. For the average 20 pound (9.1 kg) turkey, this will put the lip of the pan about 16 to 18 inches (405 to 455 mm) above the floor. Keeping the pans high results in less feed waste, less litter in pans, and easier bird movement.

Manufacturer's Recommendations: Birds per Pan

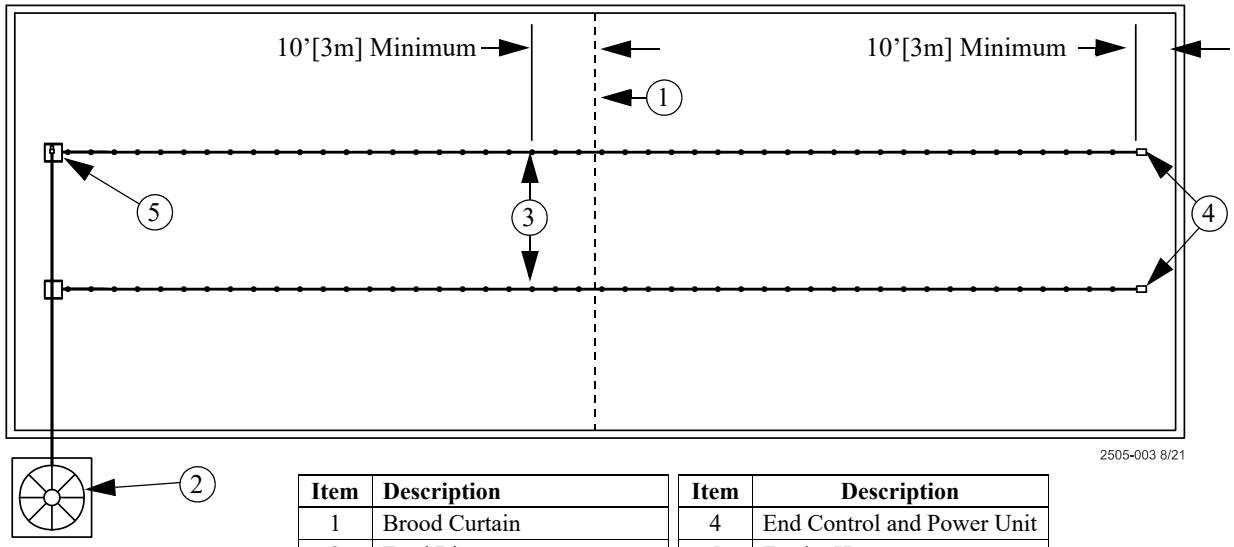
Type	Max weight and/or weeks of age	Feeders	Number of birds/pan
Broiler	4.5 lbs/2 kg.	Revolution 12, Models C2 Plus, C2 Plus S, C, H2, H2 Plus, FFR	60 - 90
Broiler	6 lbs/2.7 kg	Revolution 8 & 12, C2 Plus, C2 Plus S, G Plus, G Plus S, C, H2, H2 Plus,FFR	55 - 80
Broiler	7 lbs/3.1 kg	Revolution 8 & 12, C2 Plus, C2 Plus S, G Plus, G Plus S, C, H2, H2 Plus, FFR	55 - 75
Broiler	9 lbs/4.0 kg	Revolution 8, G Plus, G Plus S	45 – 65
Broiler Breeder Pullet – rearing	0 – 18 weeks	C2 Plus (Breeder), C2 Plus S (Breeder)	14 - 15
Broiler Breeder Pullet – rearing	0 – 18 weeks Hi-Yield	C2 Plus (Breeder), C2 Plus S (Breeder)	12-14
Broiler Breeder Male – rearing	0 -- 18 weeks	C2 Plus (Breeder), C2 Plus S (Breeder), G Plus (Breeder), G Plus S (Breeder)	11-13
Broiler Breeder Layer	17 + weeks	C2 Plus (Breeder), C2 Plus S (Breeder)	13 - 14
Broiler Breeder Layer	17 + weeks Hi-Yield	C2 Plus (Breeder), C2 Plus S (Breeder)	12 - 13
Broiler Breeder Male	17 + weeks	Revolution 8, G Plus (Breeder), G Plus S (Breeder)	8-10
Commercial Layer Pullet – rearing	0 – 20 weeks	Revolution 12, C2Plus, H2, H2 Plus	40-60
Commercial Layer	18 + weeks	Revolution 12, C2 Plus, C, H2, H2 Plus	30 - 40
Turkey Poult	0 – 5 weeks	Revolution 8, H2 Plus, H2, G Plus, G Plus S, Liberty	60 - 65
Turkey Poult	0 – 10 weeks	Revolution 8, G Plus, H2 Plus, H2, Liberty	40 - 50
Turkey Female	5 + weeks	ATF, ATF Plus	60
Turkey Male	5 + weeks	ATF Plus	40 - 50
Ducks	0 – 3 weeks	G Plus, G Plus S	60 - 70
Ducks	4 – 8 weeks	G Plus, G Plus S	50 - 60

***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 Suspension System

Optional Mid Line Controls may be used for partial house brooding. **(See Figure 1.)**

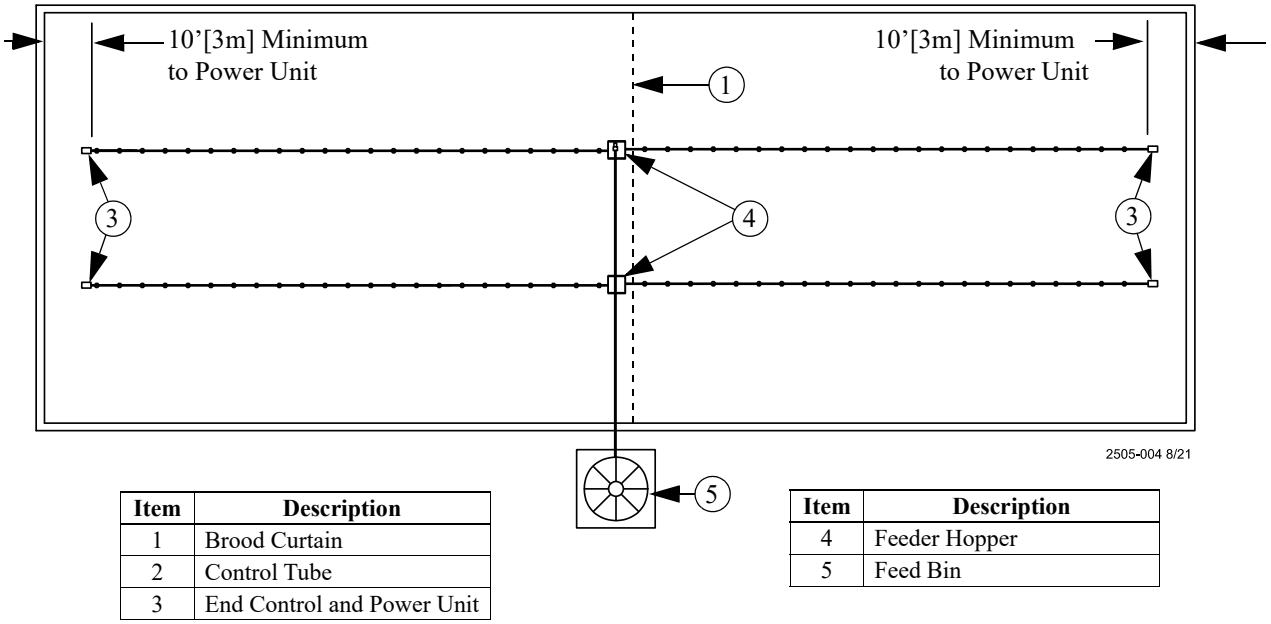


Item	Description
1	Brood Curtain
2	Feed Bin
3	Mid Line Control

Item	Description
4	End Control and Power Unit
5	Feeder Hopper

Figure 1. Component location diagram for systems up to 400 feet *[122 m]*. (Top View).

Systems with line lengths over 400' *[122 m]* should be split in the center, as shown in **Figure 2.** This will reduce auger running time and eliminate the need for Mid-Line Controls for partial house brooding.



Item	Description
1	Brood Curtain
2	Control Tube
3	End Control and Power Unit

Item	Description
4	Feeder Hopper
5	Feed Bin

Figure 2. Component location diagram for systems over 400 feet *[122 m]*. (Top View).

Suspension System

The feeder line suspension system is a vital part of your feeding system. Proper planning and installation is necessary to insure proper operation of the system. Use the chart to the right as a reference guide for determining support load requirements for your system.

Component	Weigh in pounds (kg)
Tube, Auger, Feeders, & Feed	9 lbs./ft (13.4 kg./m)
Power Unit & Control Unit Assembly	50 lbs. (22.6 kg)
150 lb. Feed Hopper & Feed	180 lbs. (81.6 kg)
Power Winch	40 lbs. (18.1 kg)

The type of installation required depends on feeder line length. **Figure 3. on page 11** shows the suspension system for feeder line lengths up to 350’ (107 m). **Figure 4. on page 12** shows the suspension system for feeder lines over 350’ (107 m).

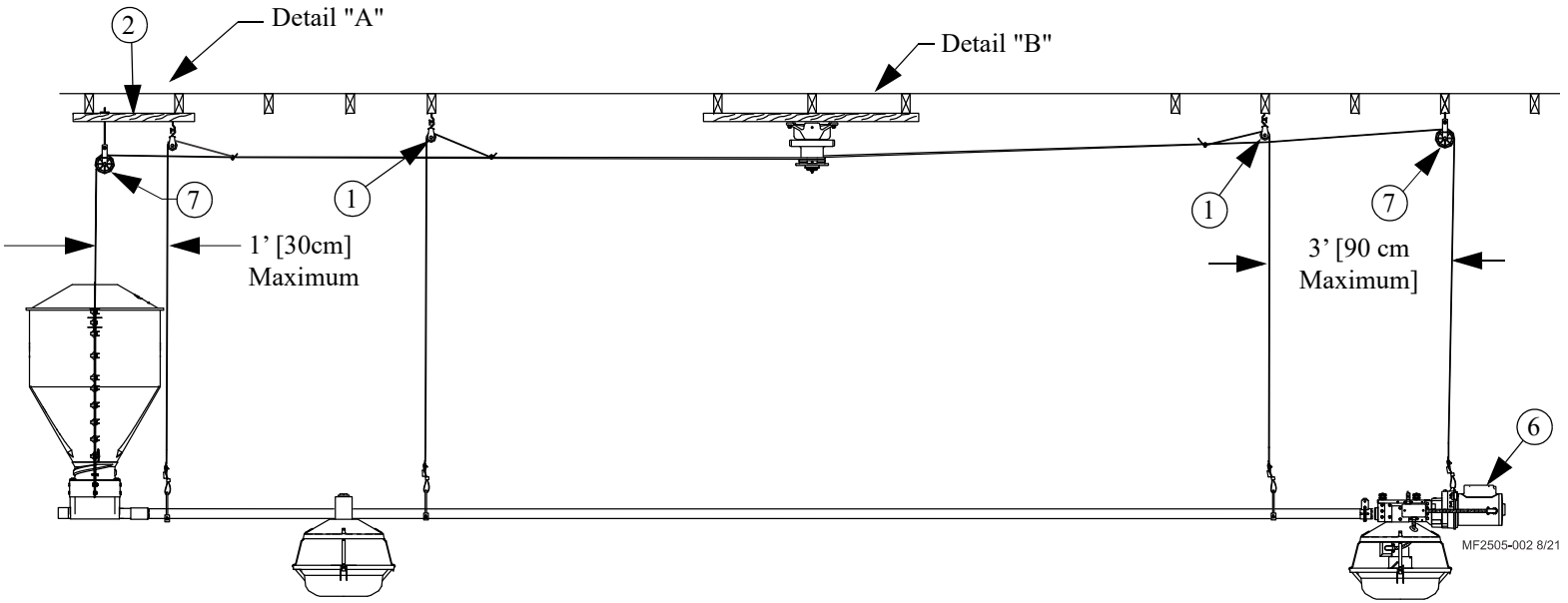
If the distance raised is greater than the distance between the drop spacings, offset the hooks 3" (75 mm) to each side of the line to prevent the cable clamps from catching the pulleys, **Figure 13. on page 18**

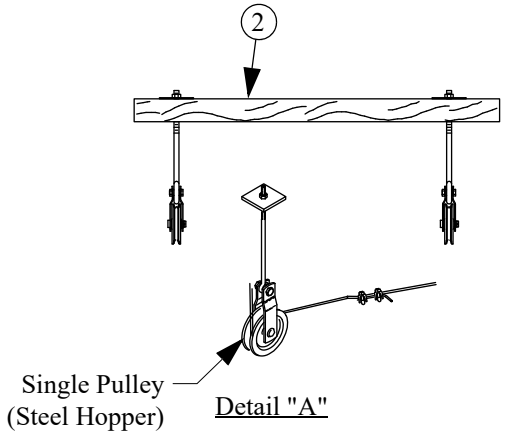
For installations using wood trusses, standard screw hook or the optional ceiling hook may be used to hold the pulley assemblies.

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

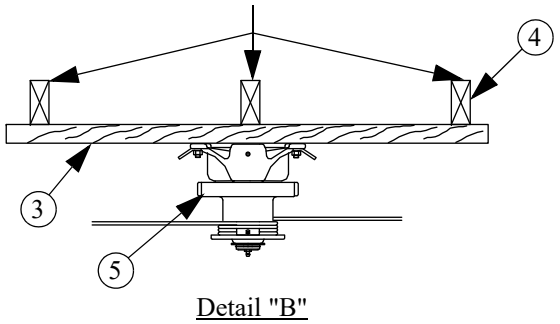
It is recommended to locate a drop no further than 1 FOOT (300MM) from the Hopper to provide adequate support for the weight of the Hopper and Feed.

For Systems up to 350’ (107 m)





Wood Framed House: Requires Support Spanning 3 Trusses
Steel Framed House: Requires Support Spanning 2 Trusses



Item	Description
1	Swivel Pulley
2	Hopper Support
3	Winch Support
4	Roof Truss
5	Winch
6	Power Unit
7	Full Line Suspension Kit

Figure 3. For Systems up to 350’ (107 m)

For Systems over 350’ (107 m)

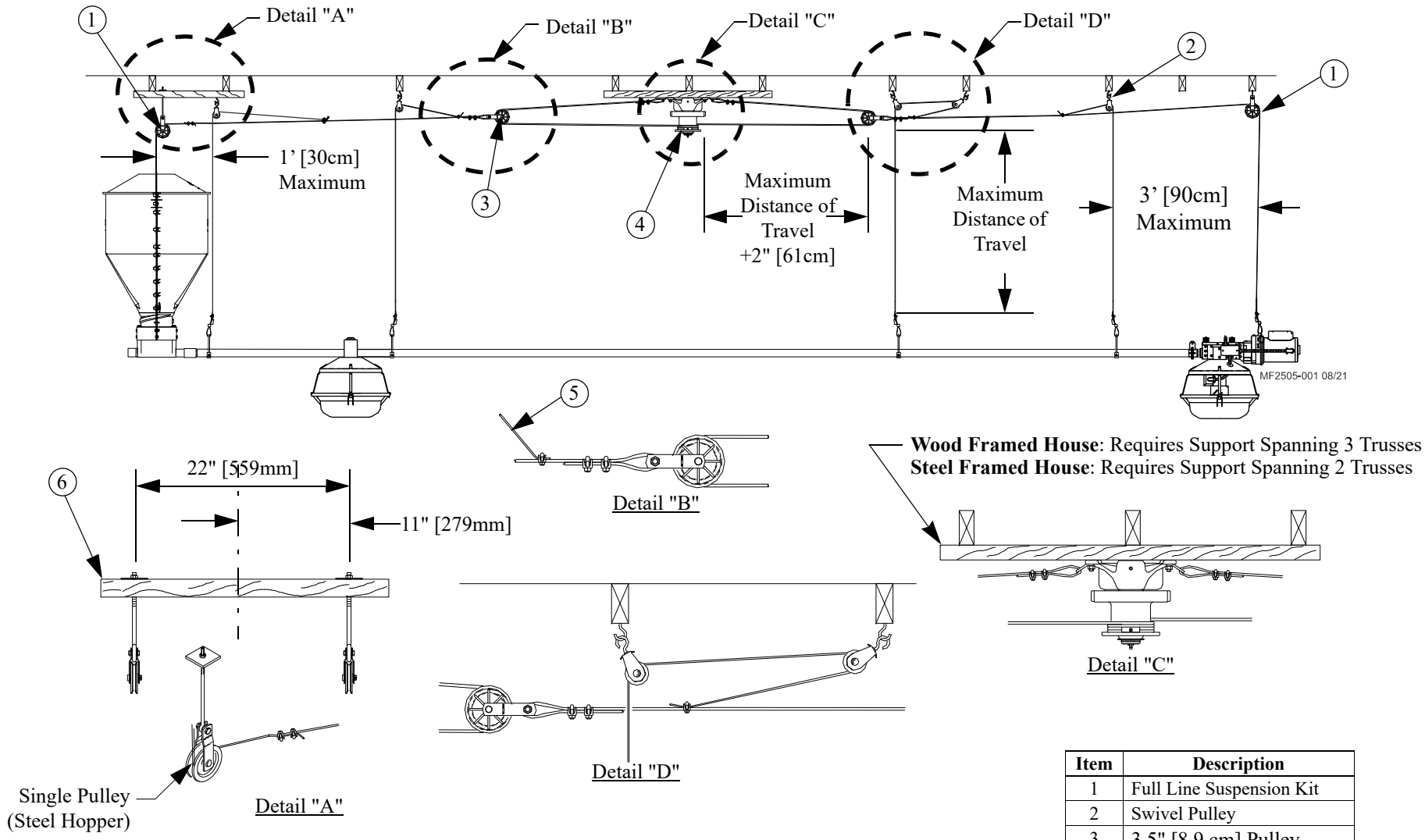


Figure 4. Suspension for systems over 350’ *[107 m]*

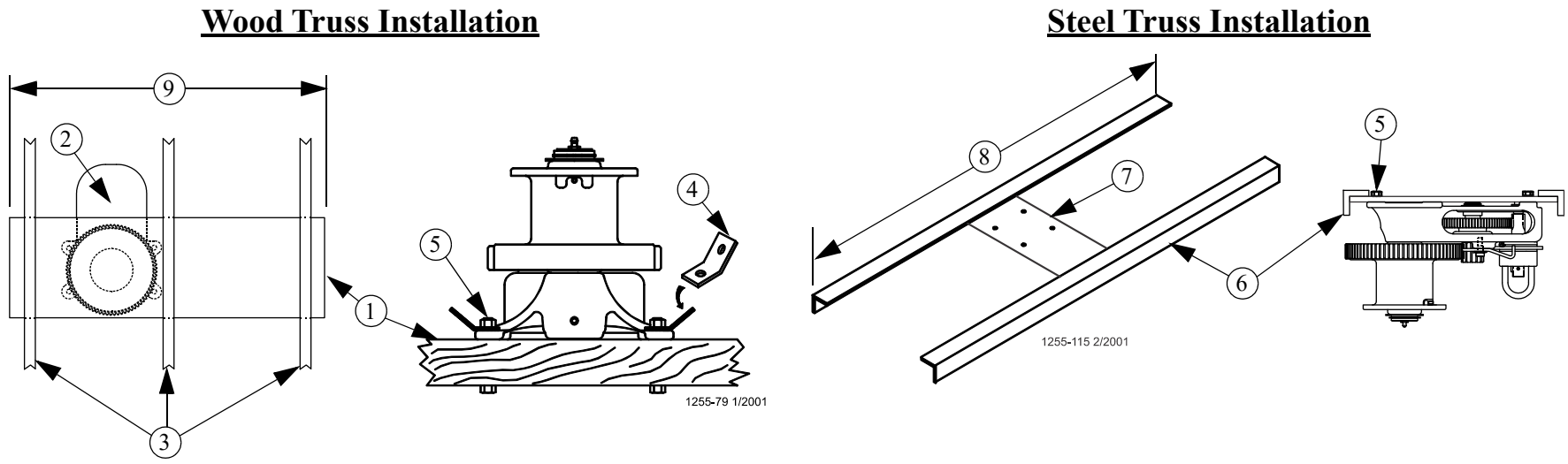
Item	Description
1	Full Line Suspension Kit
2	Swivel Pulley
3	3.5" [8.9 cm] Pulley
4	Power Winch
5	Drop Line
6	Hopper Support

Installation

Installing the Suspension System

Power Lift Winch Installation

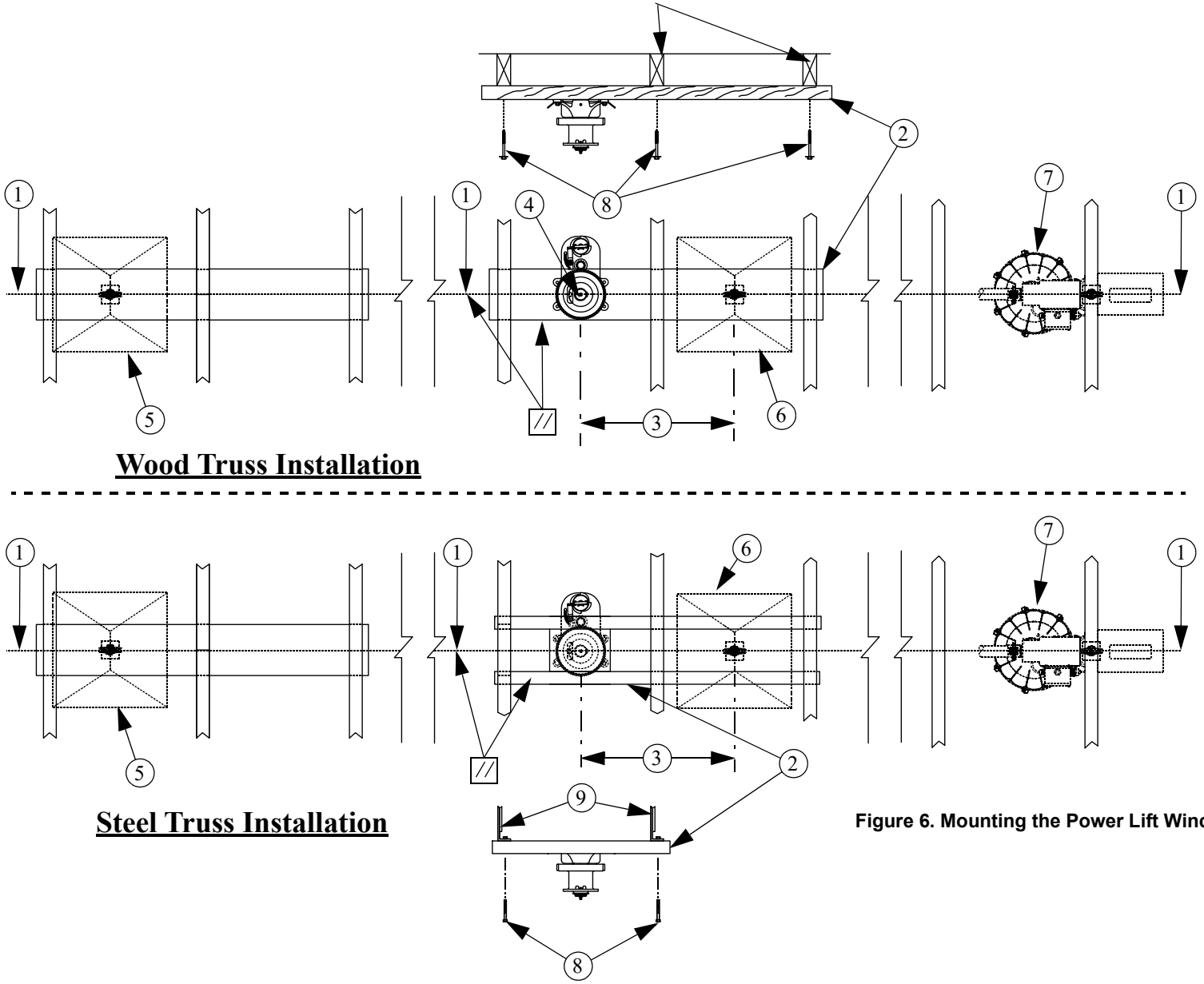
Power Lift Winch Support (Steel or Wood)



Item	Description
1	Power Lift Winch Support: 2" x 8" [50 x 200 mm] board spanning **at least 3 trusses**.
2	Power Lift Winch
3	Truss
4	Cable Hook: Install as shown.
5	5/16-18 Bolt, Washer, and Locknut (In parts package)
6	Angle Iron: Long enough to **span 2 Trusses**.
7	3/8" [9.5mm] Thick Steel Mounting Plate
8	Long enough to span 2 Trusses
9	Long enough to span 3 Trusses

Figure 5.Power Lift Winch Support

Attaching Winch Support to Trusses



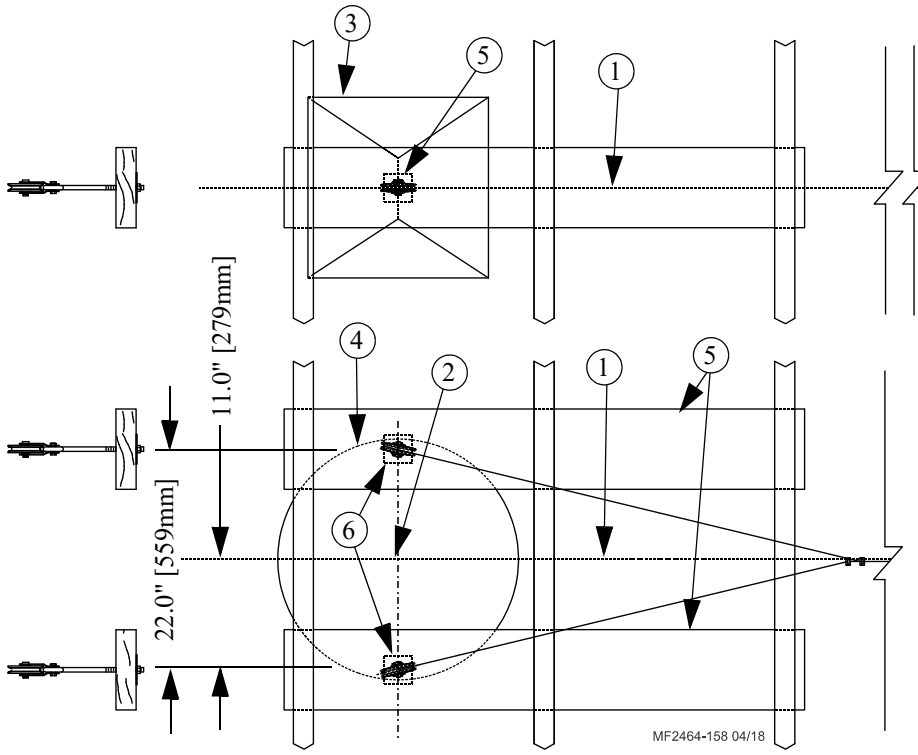
Item	Description
1	Feeder Line
2	Winch & Winch Support
3	Winch Centered on Feeder line unless Feed Hopper is centered.
4	Winch Centered directly over Feeder Line
5	Hopper (End of Feed line option)
6	Hopper (Center of Feed line option)
7	End Control
8	Lag Bolts
9	Steel Truss
10	Wood Truss

Figure 6. Mounting the Power Lift Winch and Support to Trusses

Cable Installation

Important! Special Support Required at Hopper Location if the Hopper is not directly under a Truss.

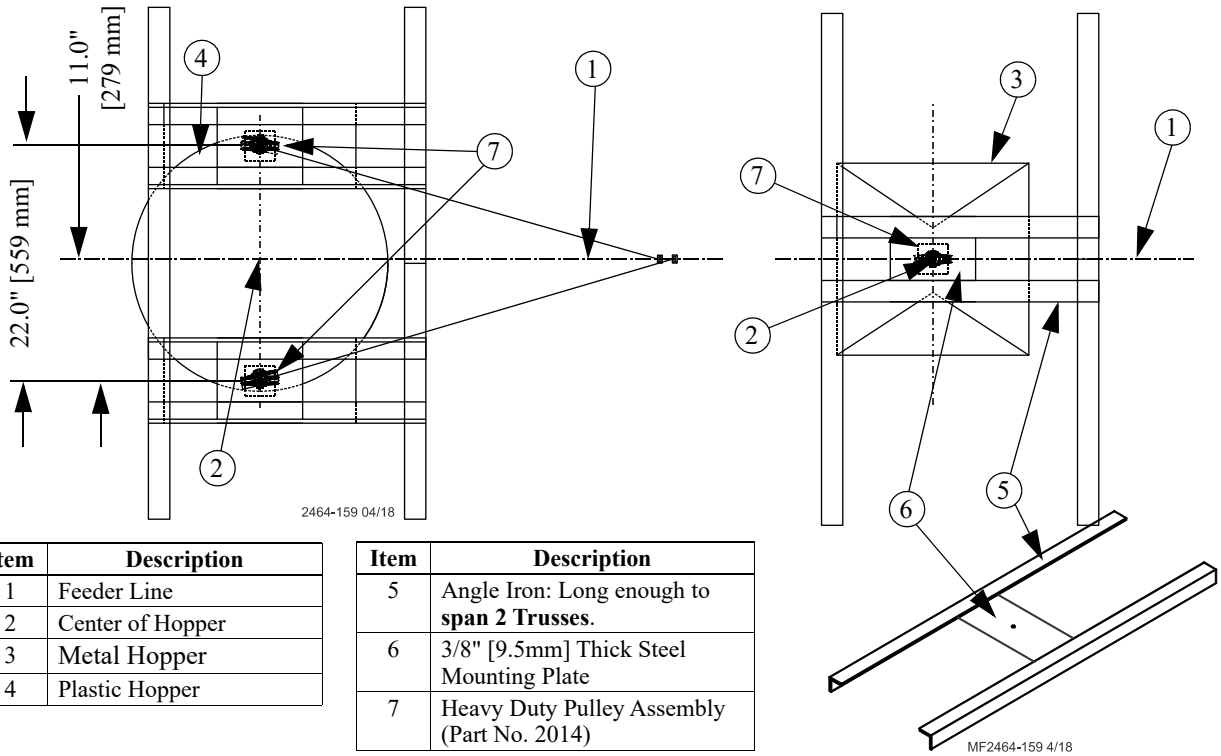
Special Support at Hopper Locations (Wood Construction)



Item	Description
1	Feeder Line
2	Hopper Centered on Feed Line
3	Metal Hopper
4	Plastic Hopper
5	2" x 8" [50x200mm] Board Spanning 3 Trusses
6	Heavy Duty Pulley Assembly (Part No. 2014)

Figure 7.Cable Installations at Hopper Locations (Wood Construction)

Special Support at Hopper Location (Steel Truss)

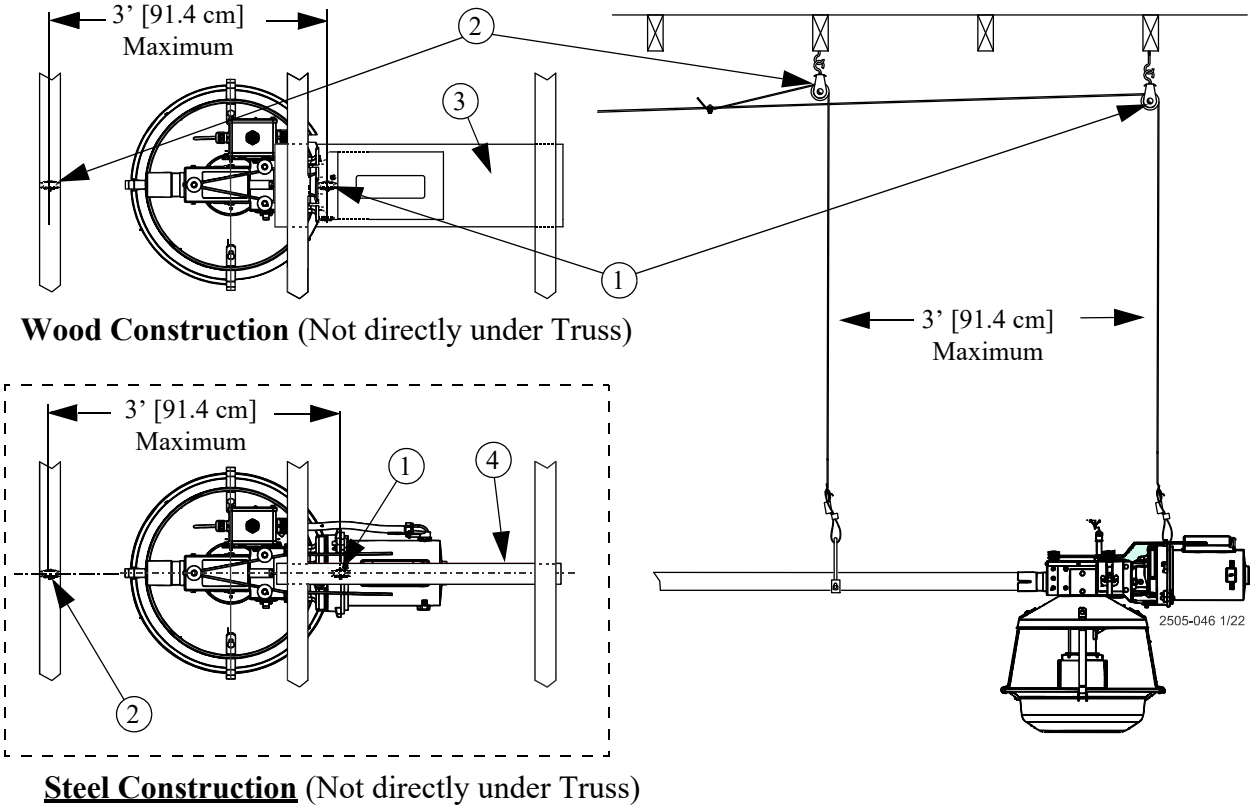


Item	Description
1	Feeder Line
2	Center of Hopper
3	Metal Hopper
4	Plastic Hopper

Item	Description
5	Angle Iron: Long enough to **span 2 Trusses**.
6	3/8" [9.5mm] Thick Steel Mounting Plate
7	Heavy Duty Pulley Assembly (Part No. 2014)

Figure 8.Special Support at Hopper Location (Steel)

Support at Power Unit Location

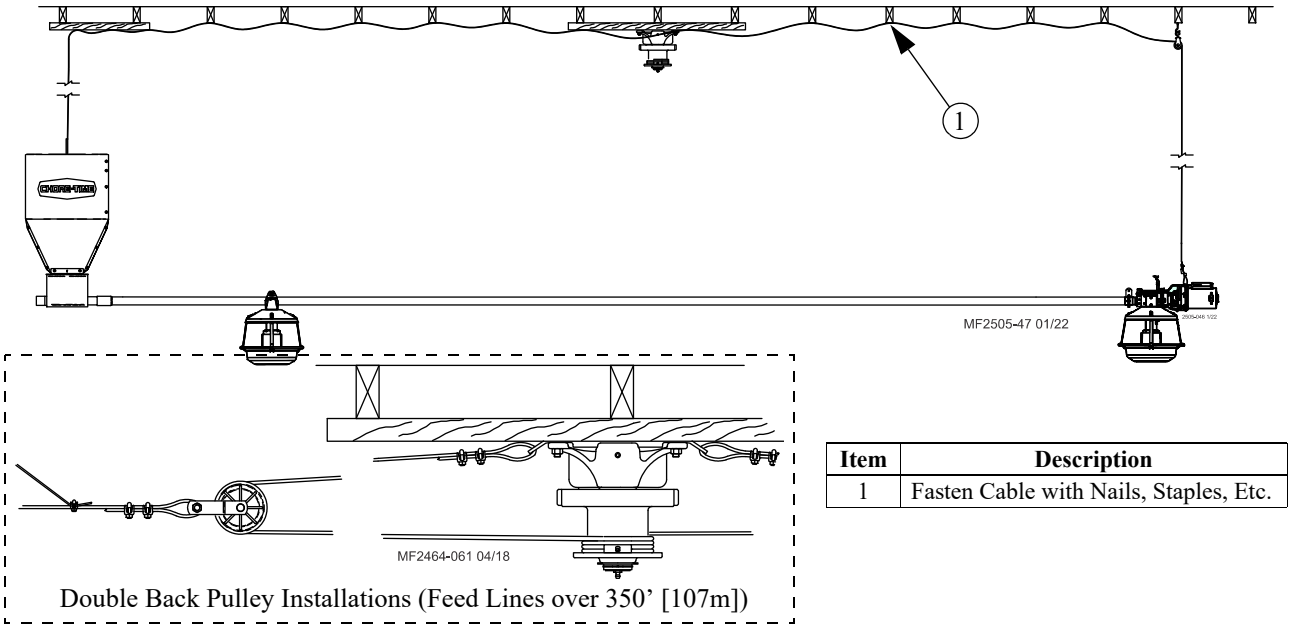


Item	Description
1	Power Unit Drop Pulley
2	1st Feed Line Drop Pulley
3	2" x 8" [50x200mm] Board long enough to Span 2 Trusses and support 75 lbs. [34kg]
4	Angle Iron: Long enough to **span 2 Trusses** and Support 75 lbs. [34kg]

Figure 9.Support at Power Unit

Attaching the Main Winch Cable (Temporarily)

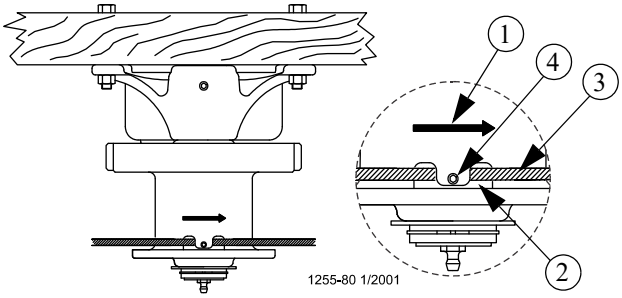
Plan for a Double-Back Pulley arrangement if over 350’ [107m] **(See Figure 10.)**



Item	Description
1	Fasten Cable with Nails, Staples, Etc.

Figure 10.Temporarily Attaching Main Winch Cable to Ceiling

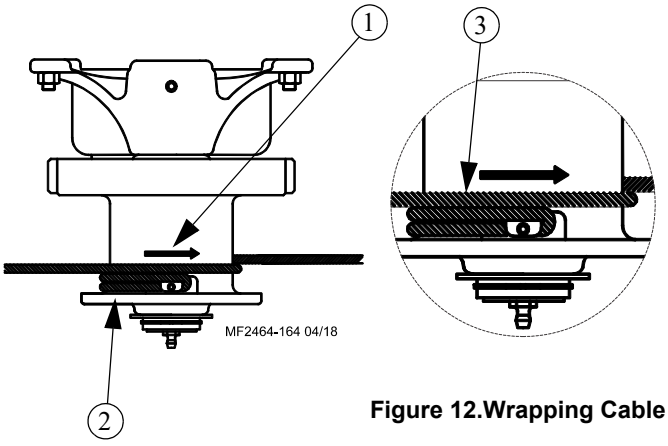
Cable Routing at Winch



Item	Description
1	Direction of Rotation (Clockwise)
2	Winch Drum Relief with Setscrew
3	Route 3/16" Main Winch Cable through Winch Drum Relief
4	Tighten Set Screw to Anchor Cable

Figure 11.Winch Cable Routing

Wrapping Cable on Winch Drum

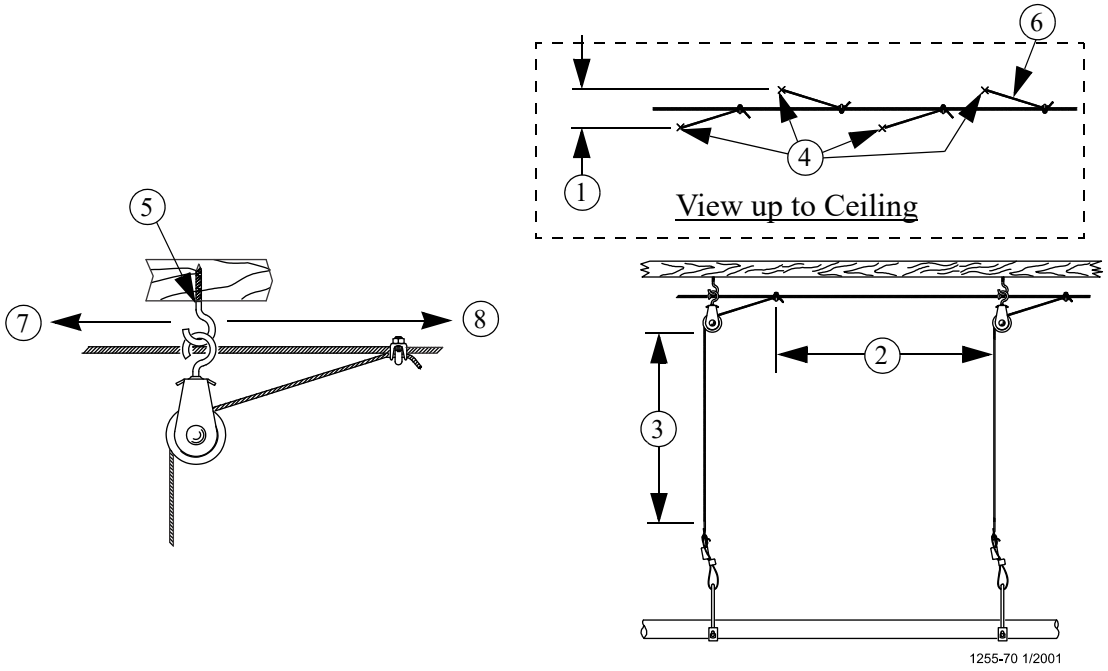


Item	Description
1	Rotate Winch Drum one full rotation Clockwise
2	Guide Cable against Flange
3	Cable must not overlap. Each Wrap tight to the next.

Figure 12.Wrapping Cable on Winch Drum

Screw Hook Installation

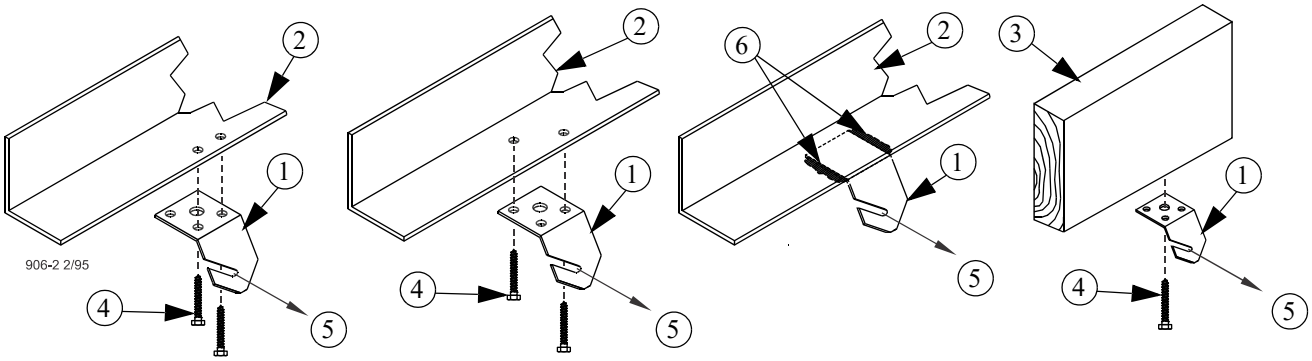
If distance raised **(3)** is greater than **(2)** then stagger Screw hooks **(4) as shown**.



Item	Description	Part No.
1	3" [7.6 cm] Offset	
2	Distance of Cable Travel (Recommended 8' [2.4m] on center). **Do Not** exceed 10' [3m].	
3	Distance Feeder is to be raised	
4	Screw Hook **(Stagger as shown if (3) is greater than (2)**	
5	Screw in Screw Hook full length of threads.	2041
6	3/32 [2mm] Drop Cable	
7	Screw Hook Opening facing opposite direction of travel.	
8	Winch End (Direction of Travel).	

Figure 13.Screw Hook Installation

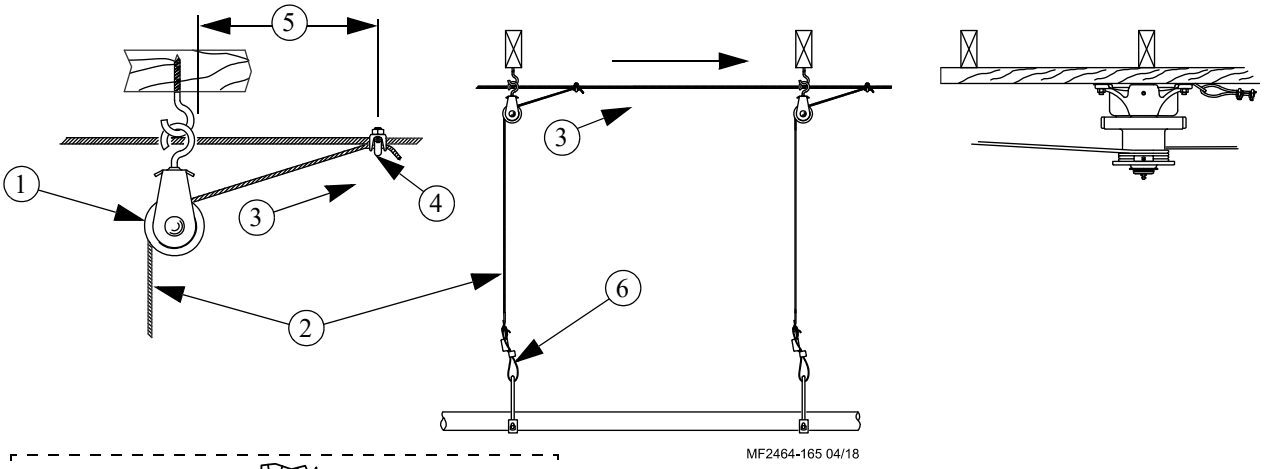
Ceiling Hook Installation

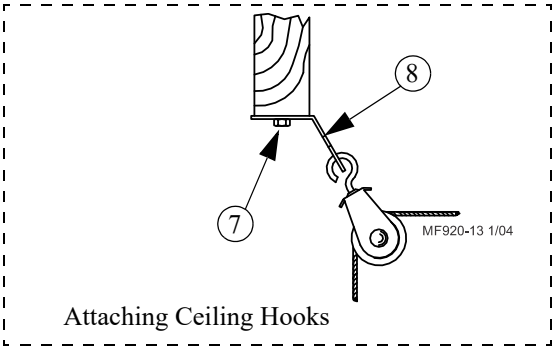


Item	Description	Part No.
1	Ceiling Hook	28550
2	Steel Truss	--
3	Wood Truss	
4	1/4-20 Lag Screw	--
5	Cable Travel Direction	--
6	Weld	--

Figure 14.Ceiling Hook Installation

Drop Installation



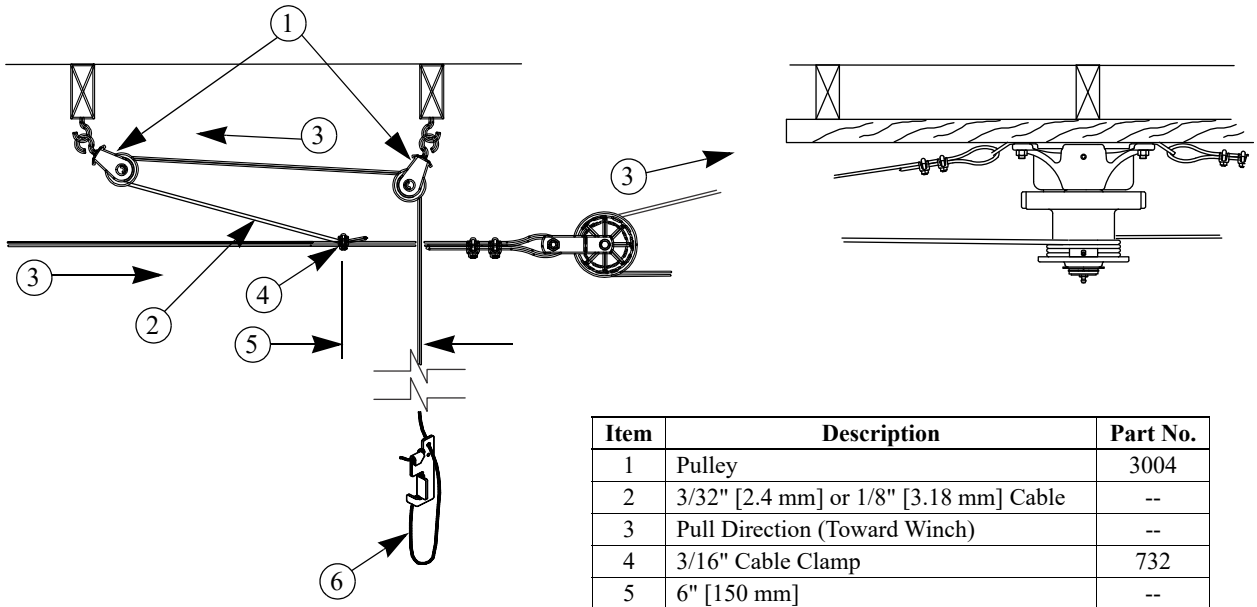


Item	Description	Part No.
1	Pulley	3004
2	3/32" [2.4 mm] or 1/8" [3.18 mm] Cable	--
3	Pull Direction (Toward Winch)	--
4	3/16" Cable Clamp	732
5	6" [150 mm]	--
6	Cable Lock (Adjustment Leveler) See **Figure 28. on page 24**.	14337
7	1/4-20 Lag bolt	--
8	Ceiling Hook	28550

Figure 15.Standard Drop arrangement

Throwback Cable Arrangement

Cable included for Throwback pulleys beneath or near Winch **(See Figure 16.)**



Item	Description	Part No.
1	Pulley	3004
2	3/32" [2.4 mm] or 1/8" [3.18 mm] Cable	--
3	Pull Direction (Toward Winch)	--
4	3/16" Cable Clamp	732
5	6" [150 mm]	--
6	Cable Lock (Adjustment Leveler) See **Figure 28. on page 24**.	14337

Figure 16.Drop Installation Throwback arrangement

Hopper Suspension

See Chore-Time Manual MF1819 for Hopper Assembly and installation procedure.

Suspension System with Offsets

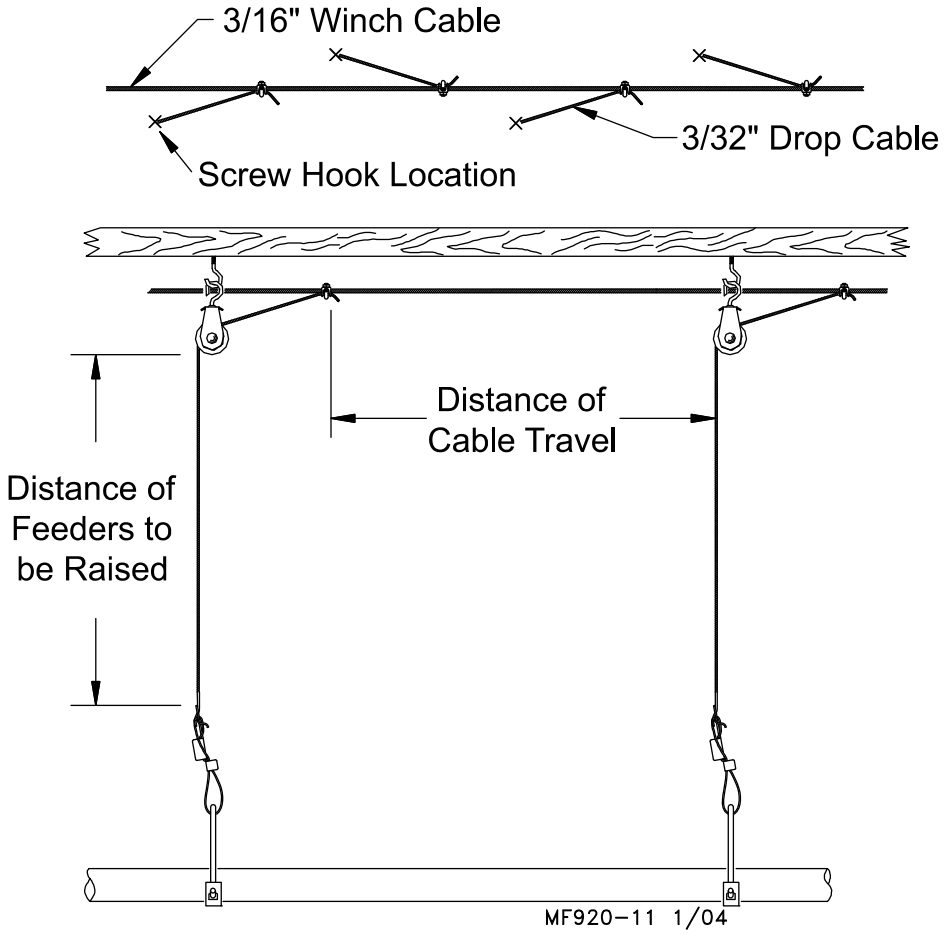


Figure 17. Suspension System with Offsets

Screw Hook Installation

Screw the hook into the truss the full length of the threads to prevent bending. The openings of the screw hooks must be pointed away from the direction of travel when the power winch raises the feeder line. **(See Figure 18)**

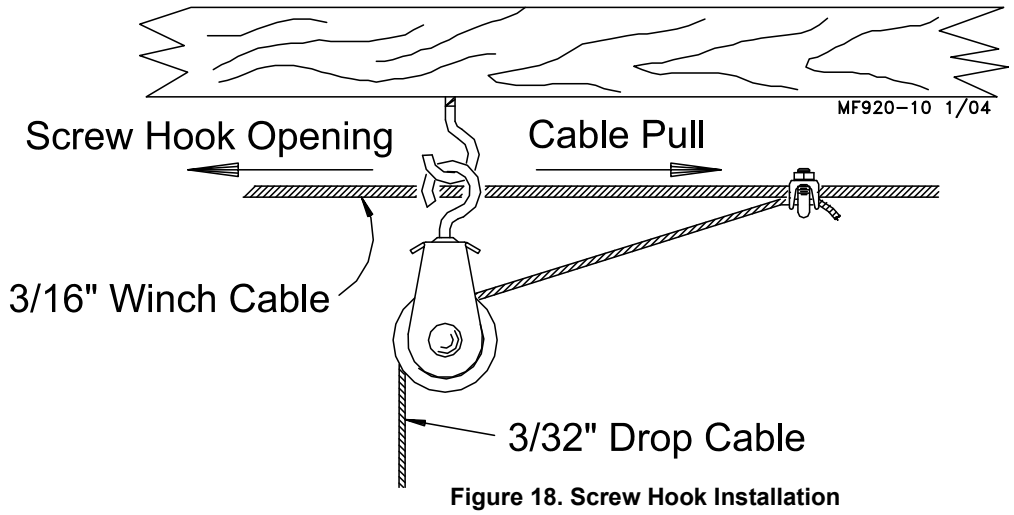


Figure 18. Screw Hook Installation

Drop Installation

1. Attach a 3004 Pulley to each hook.
2. Thread the end of the 3/32" cable through the pulley toward the winch. Clamp this end to the 3/16” winch cable about 6" (150 mm) from the pulley, using a 3/16” cable clamp, **See Figure 18 (on page 20)**
3. Cut the cable long enough to allow 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. **See Figure 16 (on page 19),** Detail D shows a “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.

Power Winch Installation

1. Bolt the power winch, fully assembled, to a 2 x 8" (50 x 200 mm) board or other fixture that will span at least 3 rafters. The brake mechanism will protrude on one side.
   For feeder lines over 350 feet (106 m), install a 2985 cable hook between the mounting bolt and power winch frame, as shown in **Figure 19.**
2. Attach the 2 x 8" (50 x 200 mm) board, with the power winch secured, to the ceiling at the center of the feeder line. The 2 x 8" (50 x 200 mm) or other fixture must be parallel to the line and must span at least 3 rafters or other fixture.
   If the hopper is located at the center of the feeder line, locate the power winch a few feet offset from the center of the feeder line.
3. Extend the 3/16" (5 mm) cable the full length of the feeder line. Attach the cable temporarily to the ceiling with nails, staples, or some type of fastener.

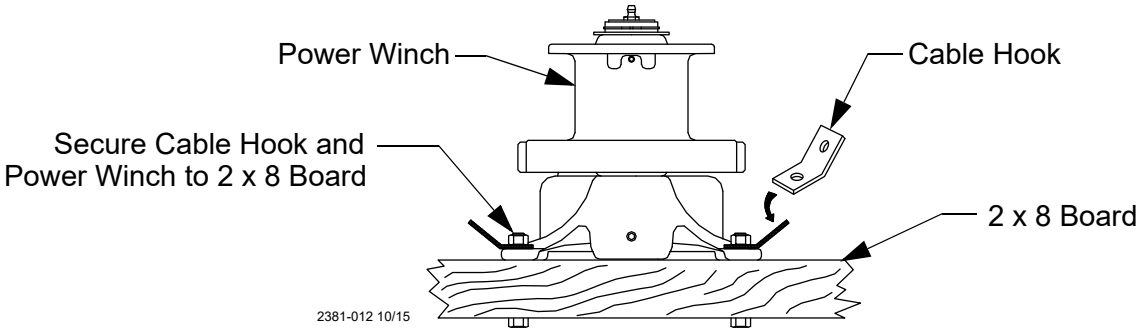


Figure 19. Swivel Pulley Installation

4. Wrap 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 20.)**
5. 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 20.)**

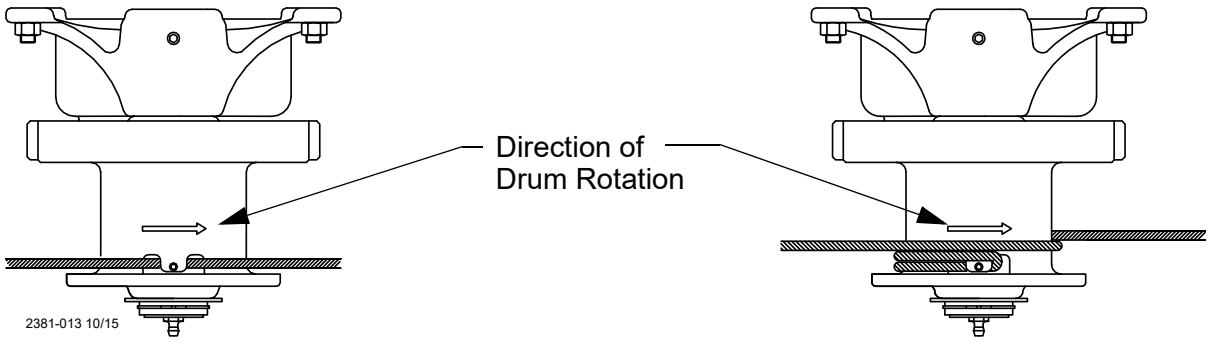


Figure 20. Cable Installation & Wrap

Hopper Assembly Procedure

The 150 lb. Hopper Assembly is <u>NOT designed for single-point suspension</u>. The upper cross brace is designed for supporting the drop tube **<u>ONLY</u>**. This Hopper Assembly is to have **<u>Two-point</u>** suspension as stated.

Assembly

1. Assemble the 1/4-20 x 1-1/2” bolt to the brace with two 1/4-20 nuts. One nut should be assembled under the brace with the other on top. This bolt is to provide a place for the tube support assembly chain to be hooked, **see figure 21.**
2. Assemble the 150 lb. hopper halves and brace as shown in **Figure 21.,** using #14 x 5/8” screws (supplied in hardware package).
3. Assemble the #8 x 1/2” screws and chain as shown in **Figure 21.**

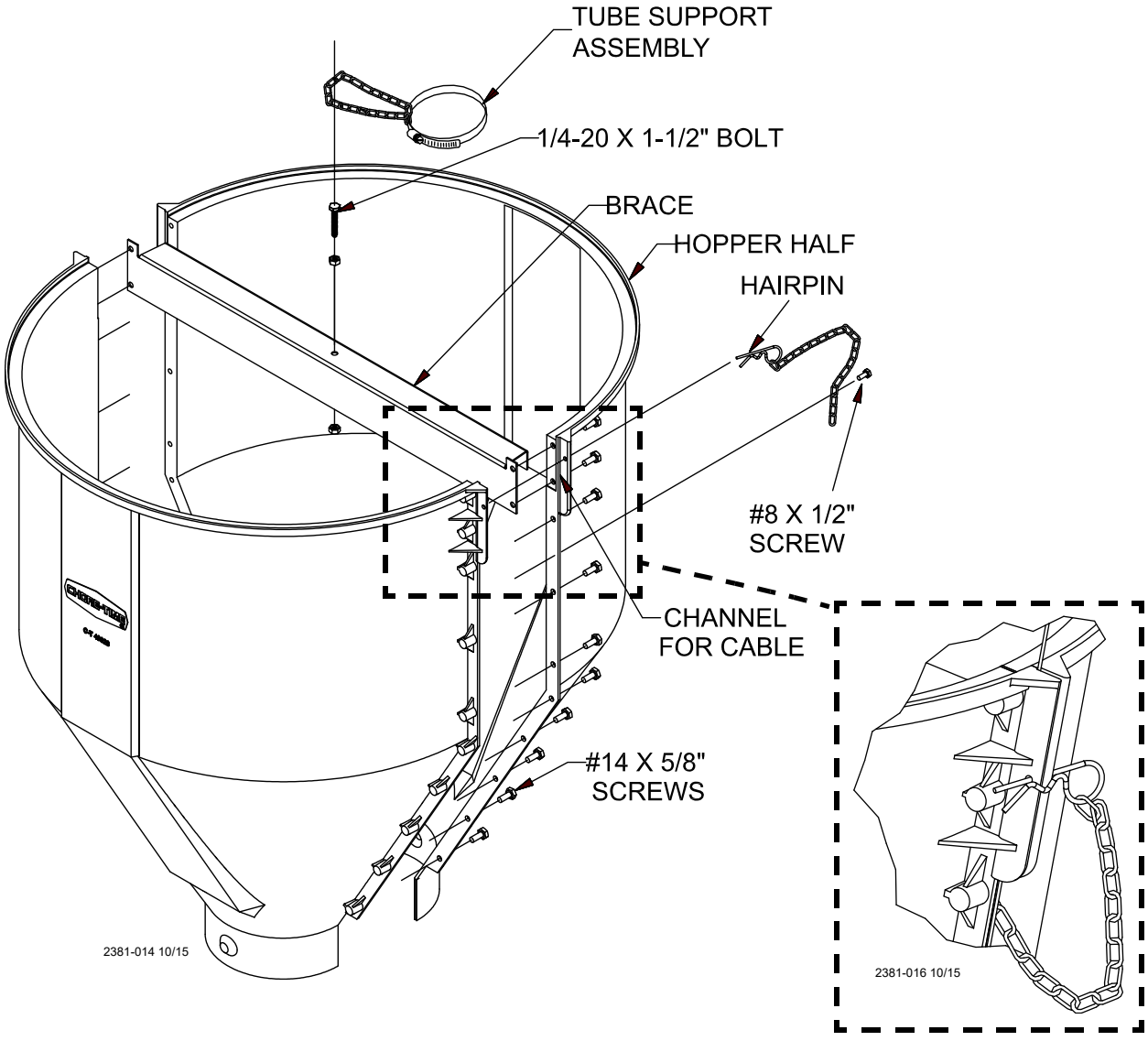


Figure 21.Hopper Assembly (Top)

4. Assemble suspension angles and suspension braces around feeder line boot (single or twin), using 1/4-20 x 1/2” Hex bolts and nuts (supplied in hardware package), **see figure 22.**

Note: The larger holes on the ends of the suspension angles need to be on the upper side of the assembly.

5. Assemble the twist lock collar to the top of the feeder line boot (single or twin) using 1/4-20 x 1/2” bolts and lock nuts (supplied in hardware package), **see figure 22.**
6. Assemble the adjustment brackets to the suspension angles with 5/16-18 x 3/4" bolts and nuts (supplied in hardware package).
7. Two cable assemblies (cable with a sleeve clamp and a 5/32 thimble) are supplied with the suspension kit to support the hopper. Attach the cable assemblies to the adjustment brackets using the top holes of the adjustment brackets, **see figure 22.**

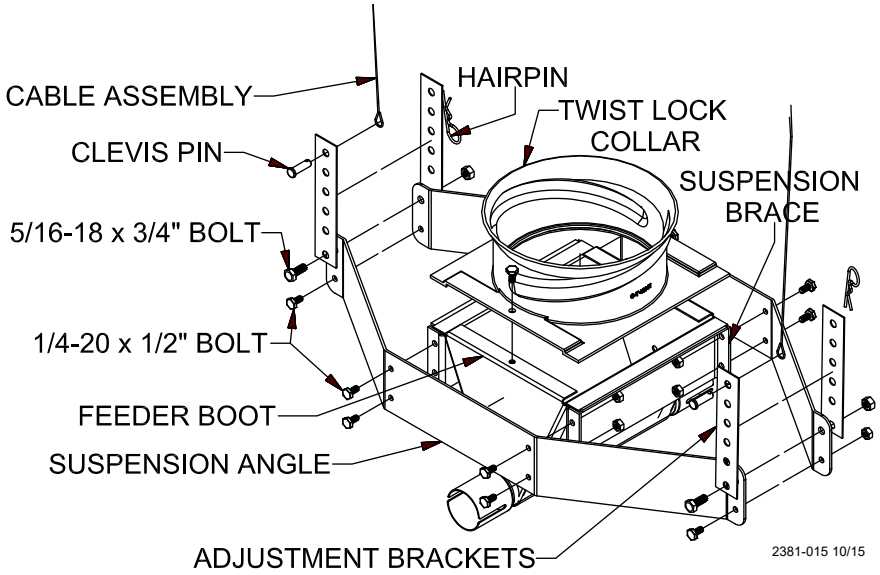


Figure 22.Hopper Assembly (Bottom)

8. Install two pulleys to either a 2" x 8" [50x200 mm] board that will span at least 3 rafters or a 3/8” [9.5 mm] thick steel plate welded to two pieces of angle iron that are long enough to span at least 2 rafters. Install the pulleys directly above the feeder line where the hopper is to be located. The pulleys should be spaced 22" [559mm] apart (11" [279 mm] from the center of the hopper in both directions), **see figure 23.**

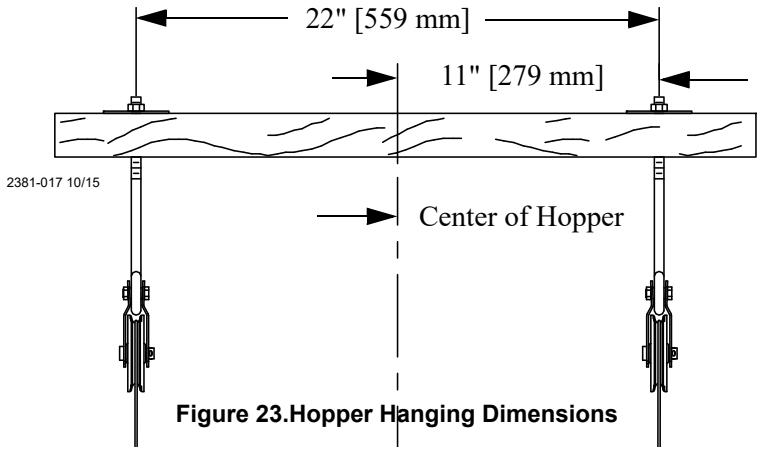


Figure 23.Hopper Hanging Dimensions

Suspend the Hopper

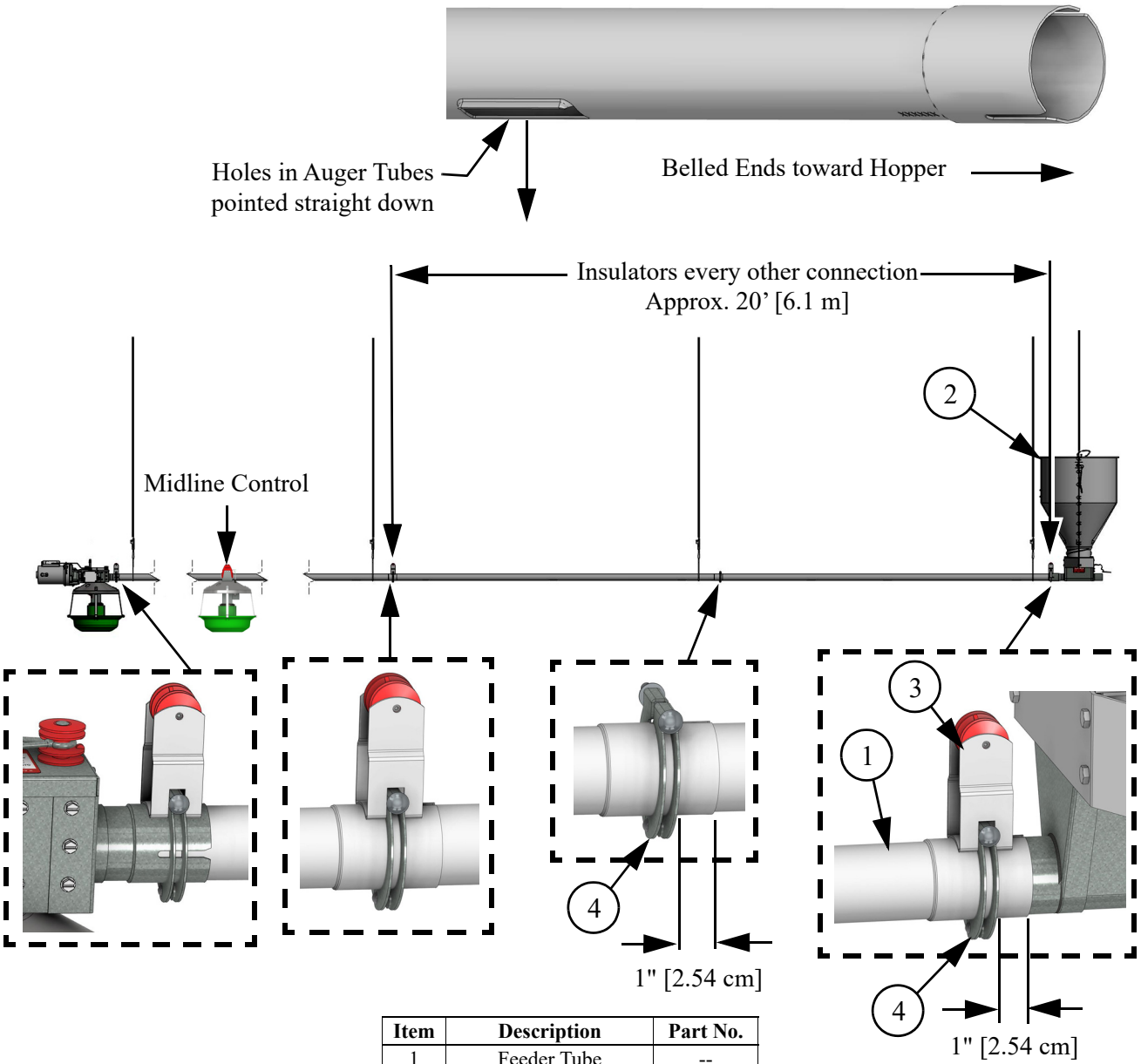
1. Attach the boot to the feeder line.
2. Route the two cable assemblies up and around the pulleys.
3. Level the boot with the feed line and clamp the cables to the main cable using 1 cable clamp per cable assembly.
4. Place the hopper on top of the twist lock collar and rotate the hopper 90 degrees into position.

Make sure the cables lay in the channels on the sides of the hopper for support then use the hairpin to contain the cable.

Feeder Line Assembly and Suspension

Feeder Line Installation

1. The expanded (belled) end of each Tube **(Item 1)** should be toward the Feed Hopper **(Item 2)** end of the Line. **(See Figure 24.)**
2. Begin at the Hopper end of the line. Use a Tube Clamp **(Item 4)** with an Insulator Bracket **(Item 3)** to attach the Hopper to the first Tube. Use a Tube Clamp (w/o insulator) at the next joint between the first and second Feeder Tubes. Continue down the line clamping the Tubes together. Use a Tube Clamp with Anti-Roost Bracket at every other Joint and one at the end of the line.
3. If the optional Mid-line Control unit is used, install it at the desired location. **See "Mid-Line Control Units" on page 31.**

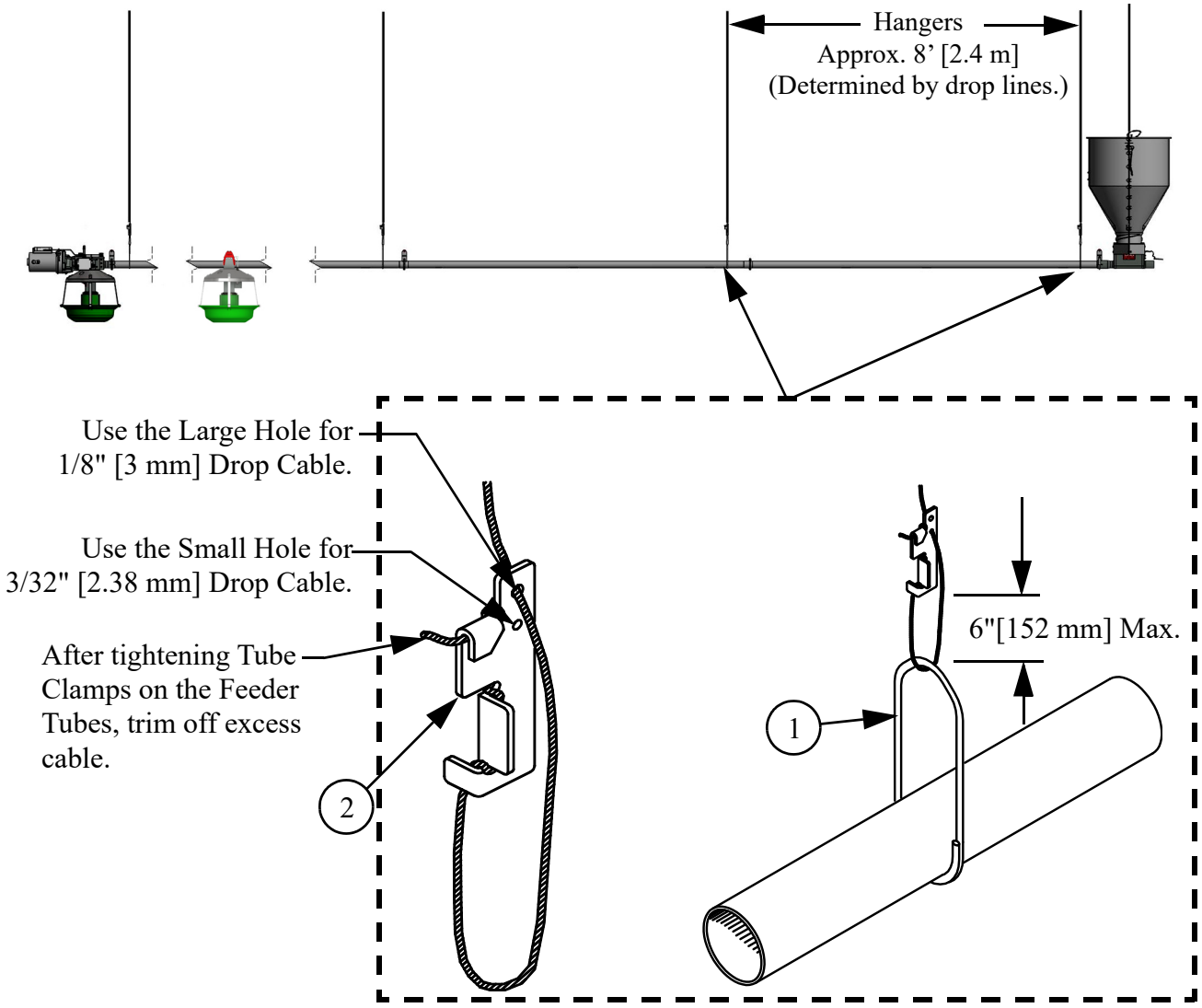


Item	Description	Part No.
1	Feeder Tube	--
2	Feed Hopper	--
3	2" Insulator Bracket	29516
4	2" Clamp	29520

Figure 24.Feeder Line Assembly Procedure

Feeder Line Suspension

1. Install the Hangers **(Item 1)** on the Tubes on 8' (2.4 m) spacings determined by the suspension drop lines. **Figure 25.** See **Figure 25** for proper Cable routing around the Cable Lock (Adjustment Leveler).
2. Following installation of all drops, check drop Cables before raising Feeder Line. Cable must be on all pulleys before raising the Feeder Line.
3. Raise the Feeder Line to a convenient working height.
4. After the Feeder Line has been suspended, level the system to the bird walking surface.
5. Before tightening each Clamp:
   - •make sure each tube is level (not sagging, sloping, etc.)

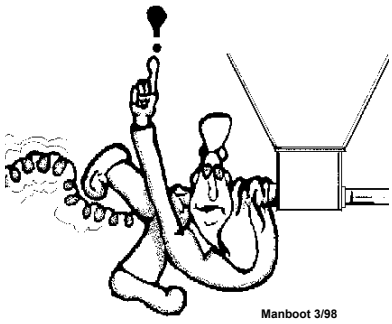


Item	Description	Part No.
1	Hanger	4207
2	Cable Lock	14337

Figure 25. Adjustment Leveler and Hanger Installation.

Auger Installation

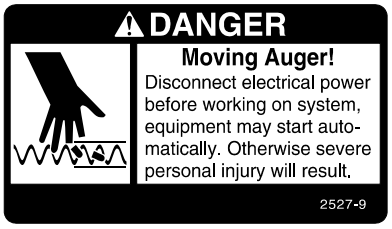
Note: Use extreme caution when working with the auger. The auger is under tension and may spring causing personal injury. Wear protective clothing, gloves, and safety glasses when working with the auger.



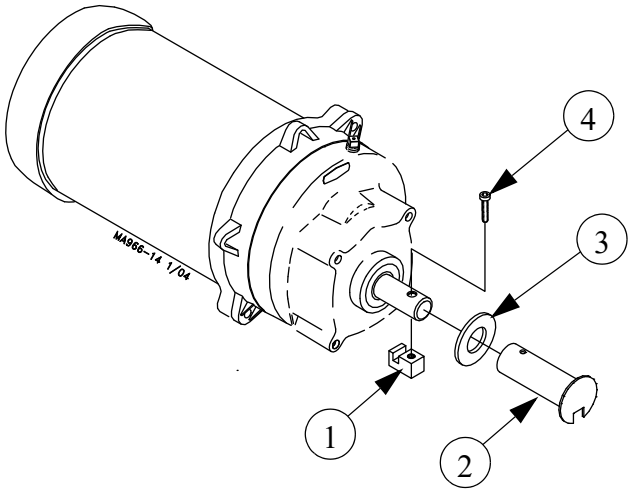
BE CAREFUL WHEN WORKING WITH THE AUGER!

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

Cut the leading 18" (450 mm) and last 18" (450 mm) off each roll of auger. Also, cut out any other distorted auger sections and reconnect the auger as specified in **"Auger Brazing" on page 28**.



1. Remove the anchor & bearing assembly from the boot under the hopper.
2. Use extreme caution when pushing the auger into the auger tubes. Keep your hand away from the end of the auger tube to avoid injury.
   - With the auger coiled about 6' (1.8 m) from the end of the boot, feed the auger through the boot into the tubes.
   - Push the auger into the tube in short strokes.
   - Uncoil and handle the auger carefully to avoid damaging or kinking the auger.
3. If more than one coil is required for each feeder line the auger ends will have to be brazed together. Refer to **"Auger Brazing" on page 28**.
4. Continue installing auger until the auger reaches the control unit end of the feeder line.
5. Slide the drive tube and flat washer over the output shaft on the power unit, **see figure 26.**
6. Attach the auger to the output shaft of the power unit. Use the drive block to secure the auger to the output shaft.



Item	Description
1	Driver Block
2	Drive Tube Weldment
3	Flat Washer
4	1/4-20 x 1-1/2" H.H. Bolt
Control Unit not shown for clarity.	

Figure 26. Auger Driver Components

7. Pull the auger at the boot end until it begins stretching then let it relax. In the relaxed position, mark the auger at the end of the boot. **See Figure 27.**
8. Auger stretch:
   - The auger needs to be stretched 7" (180 mm) per 100' (30 m). Example: A 300' (90 m) feeder line requires 21" (500 mm) of stretch.
   - Beginning at the relaxed position, measure the required amount of stretch. Mark the auger at that point.
   - Grip the auger 8" (200 mm) ahead of this mark with locking pliers. Allow the auger to pull back into the boot so the pliers rest against the end of the boot,

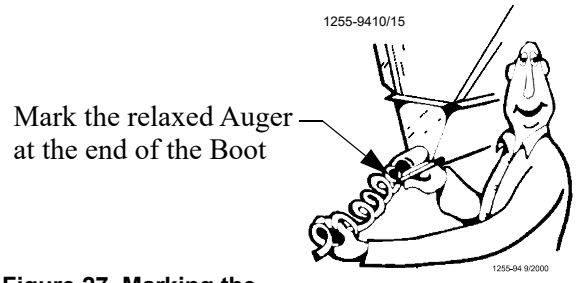


Figure 27. Marking the

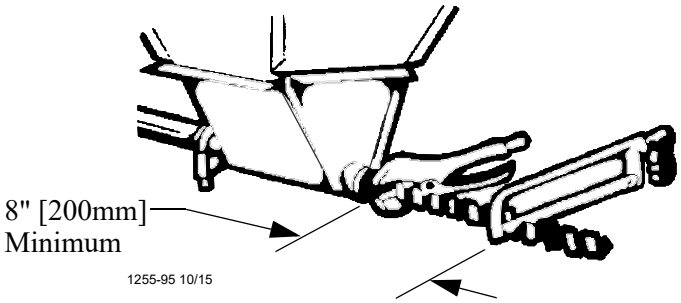


Figure 28. Cut the Auger with required stretch

9. Insert the anchor assembly into the auger, guide the tip of the auger between the two roll pins and continue to insert the auger until it touches the washer at the back of the anchor. Tighten the two screws in the center of the anchor.
10. **Carefully** remove the locking pliers while holding onto the anchor and bearing assembly and auger securely.

    Slowly ease the auger back into the tube. **Use caution. If the auger is allowed to spring back, the bearing race may crack.** Install the bearing retainer and fasten with a tube clamp. Keep the bearing retainer flush with the end of the anchor for safety.

CAUTION

KEEP HANDS AWAY FROM PINCH POINTS WHEN INSTALLING AUGER.

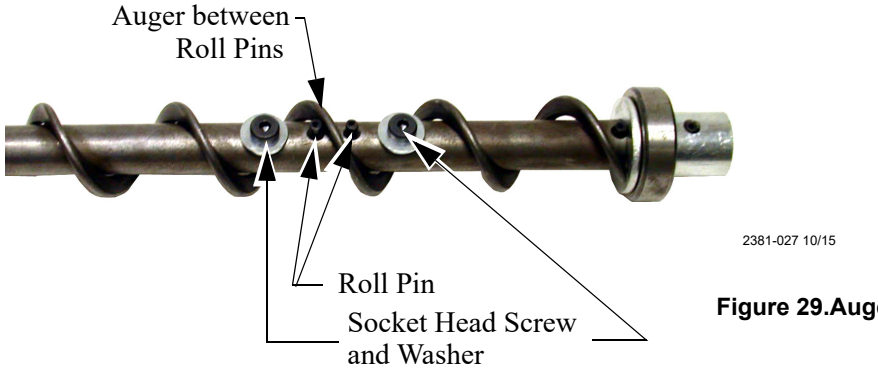
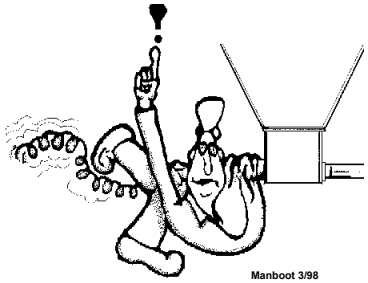


Figure 29.Auger Assembly

BE CAREFUL WHEN WORKING WITH THE AUGER!



Auger Brazing

A bronze, flux coated rod is recommended.

The ends of the Auger should be flush as shown, **DO NOT THREAD INSIDE EACH OTHER**. **See Figure 30.** Be sure that there are no sharp edges or rough corners to ware against the Tube. To align the Auger for brazing, lay it in angle or channel iron and clamp it firmly in place. Braze using low heat. Allow the joint to air cool; rapid cooling will cause the Auger to become brittle.

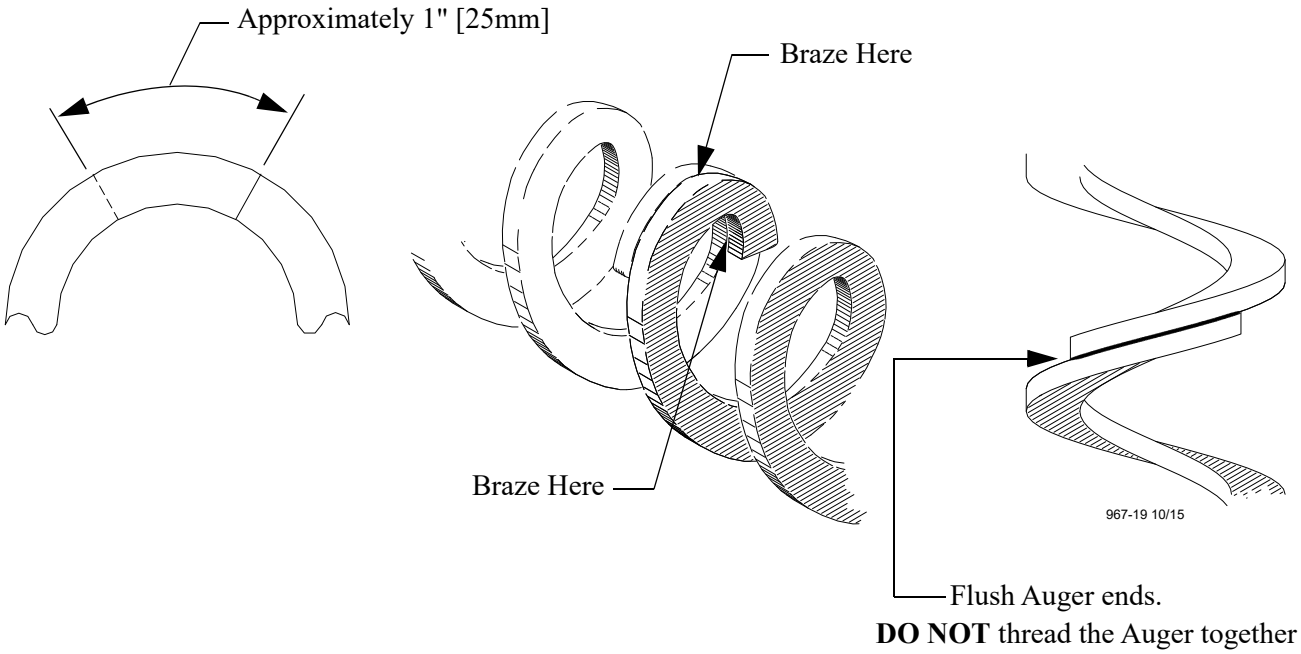


Figure 30. Auger Brazing

Control Unit Installation

End Control Units

The assembly instructions are very similar for the ATF™ and ATF™ PLUS controls. The primary differences between the controls are in the electrical components and protection devices.

1. Remove the four 5/16-18 x 5/8” bolts from the parts package and use them to bolt the anchor plate to the power unit. Install the anchor plate with the angled end pointing down **(See Figure 31).**
2. Bolt the control unit body assembly to the power unit, using hardware supplied.

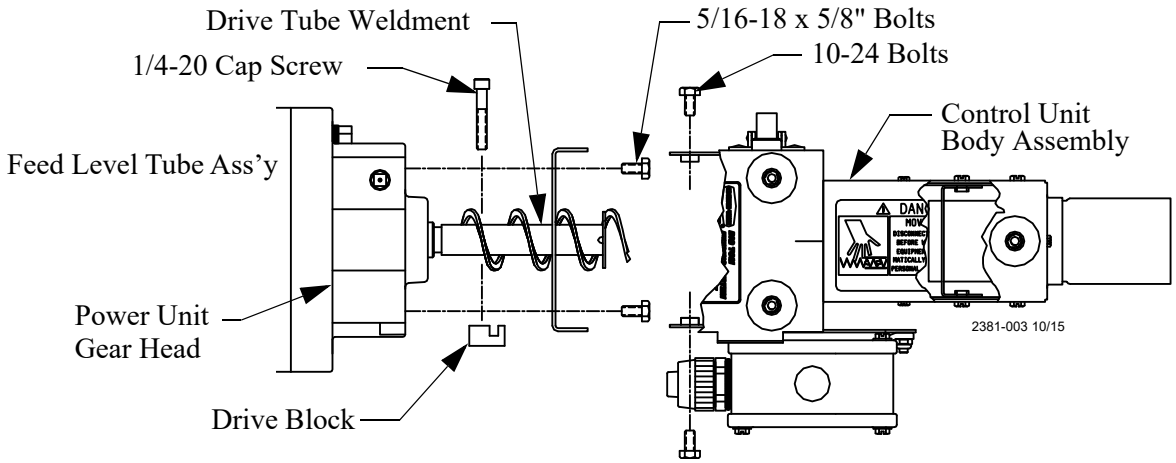


Figure 31.Control Unit Installation

3. Attach the Pan Supports to the Control Unit Shield. **See “MODEL ATF™ Pan Support Assembly” on page 42 or See “Model ATF™ Plus Pan Shield Assembly” on page 43.**
4. The Feed Level Switch is factory adjusted. To check adjustment before assembling depress the switch paddle and listen for the switch to “click”. If the switch needs adjustment, **See “Mechanical Switch Adjustment procedure for Control Units” on page 49**.
5. Insert the Drop Tube and switch assembly through the Pan Shield from the bottom, **(See Figure 32).** The hole in the Pan Shield should be located on the same side of the Drop Tube as the switch cord and directly under the white box on the body assembly. Bolt the Drop Tube to the Body Assembly. The Switch on the Drop Tube should be mounted opposite the Power Unit.

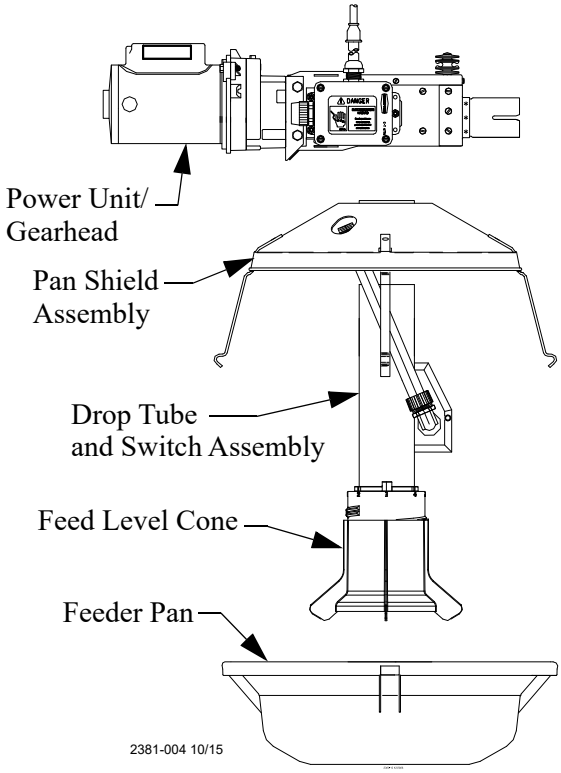


Figure 32. Drop Tube and Switch Assembly

6. Single Phase: Install the 90 Degree Connector, flexible conduit, electrical wire, and Conduit Connector as shown in **Figure 33.**

   Three Phase: Refer to applicable electrical standards for connecting power unit to Control Unit. Components are not supplied by Chore-Time.

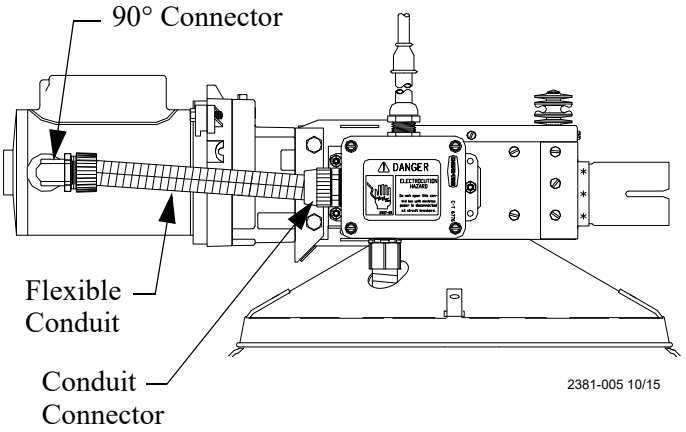


Figure 33. Conduit Installation

7. Insert the flex cable that is attached to the Control Switch through the hole in the Control Unit Pan Shield and attach the romex connector to the handy box, **(See Figure 34).**
8. **DISCONNECT ELECTRICAL POWER PRIOR TO WIRING THE CONTROL UNIT.**

   Single Phase Control Unit may be wired as shown, **See "Single Phase(Ø) Wiring Diagram" on page 45**

   Three Phase Control Unit must be wired as shown, **See "Three Phase(Ø) Wiring Diagram: 220/230 V." on page 46**

Mount the control unit on the end of the feeder line and secure with a Tube Clamp. **See Figure 31 (on page 29)**. The distance between the control unit pan and the last pan should be 5' (1.5 m) or less.

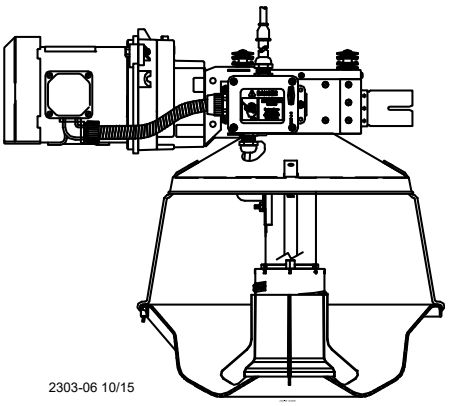
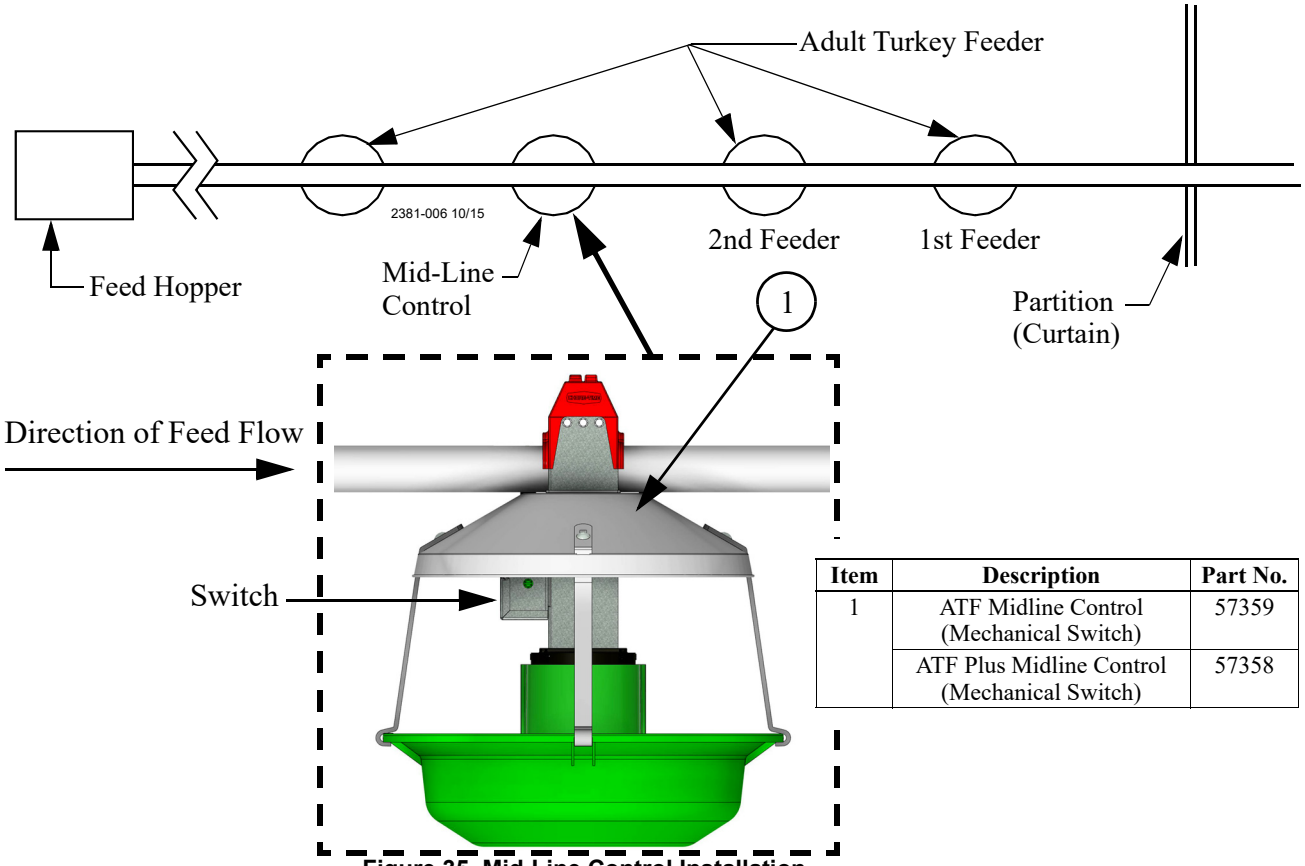


Figure 34. Switch Installation

Mid-Line Control Units

The Mid-line Control **(Item 1)** makes it possible to operate the feeding system when birds are confined away from the End Control Unit. Chore-Time recommends placing the Mid-line Control feeder at least 2 pans away from the curtain or partition, **(See Figure 35).**

1. Determine which Feeder Tube and outlet hole will be used and install the Mid-Line Control.
2. Make sure the Switch is directly under the incoming supply of feed, **(See Figure 35).**



Item	Description	Part No.
1	ATF Midline Control (Mechanical Switch)	57359
	ATF Plus Midline Control (Mechanical Switch)	57358

Figure 35. Mid-Line Control Installation

3. Install the Feed Adjustment Cone and Feed Level Cone similar to the standard feeders. The Mid-line Control serves as the drop tube assembly.

   If the feeders are to have the winch-able Feed Level Cones, install the necessary cables now. **See "Winch Adjustable Feed Level Cones" on page 39**
4. Install the Feeder Pan, Pan Shield and other miscellaneous components similar to the standard feeders.
5. The Feed Level Switch is factory adjusted. To check adjustment before assembling depress the Switch Paddle and listen for the switch to "click". If the switch needs adjustment **See "Maintaining the Feeding System" on page 48**
6. Install a toggle switch out of the birds reach to disconnect power to the Mid-line Control. This allows the Mid-line Control to serve as a standard feeder when not used as a control feeder.

Wire the Mid-line Control as shown in the wiring diagram section of this manual. See "Wiring Diagrams" on page 45.

Mid-Line Control Operation

Chore-Time recommends having a toggle switch wired into the system to allow the feeder line to be changed from full house brooding to partial house brooding. Maintain a lower feed level in the Mid-line Control than in the rest of the Feeders. This will cause the Mid-line Control Pan to operate more often, thereby starting the feeder line before the other pans become empty. Do not hinder the bird movement around the Mid-line Control Pan. Locate the curtain or partition several pans away from the Mid-Line Control Pan. Provide adequate lighting so the birds will not shy away from the Mid-Line control area.

Feeder Assembly and Installation

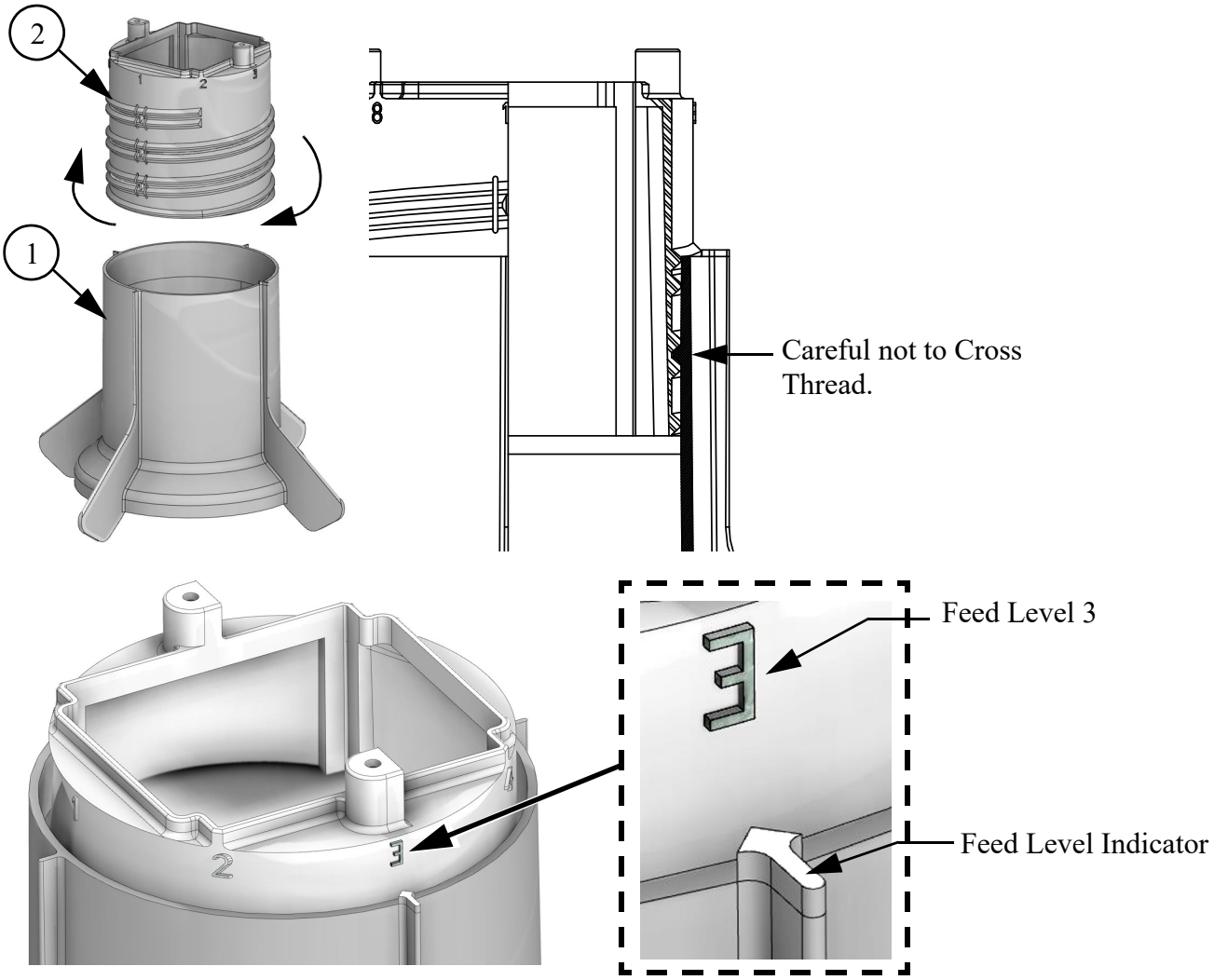
Feed Cone Assembly

Plastic Feed Level Cone

1.Assemble the Feed Level Cone **(Item 1)** and Adjustment Cone **(Item 2) as shown** in **Figure 36.**

2.Adjust to feed level #3 **as shown**.

Note: When properly installed the cones will only move if they are rotated to a different feed level.



Item	Description	Part No.
1	ATF Feed Level Cone	49802
2	Feed Adjustment Cone	49801

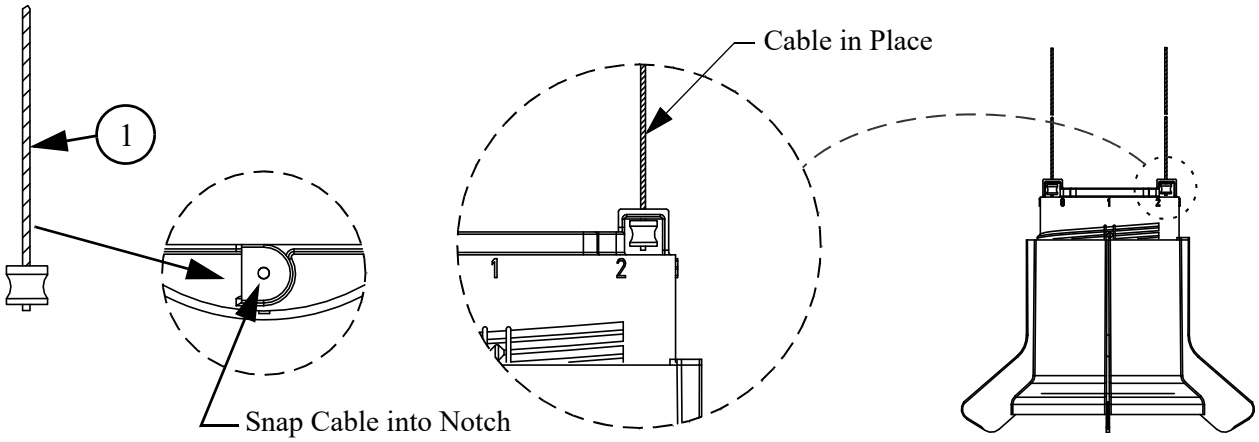
Figure 36. Cone Assembly

Cable Assembly

1.If the Feed Level Cones are to be Winch adjustable, install the Cable Assemblies at this point.

Note: After the feeder operates, re-adjustment of the Feed Level Tubes may be done to achieve the desired feed level.

2.Install two cables at each Feed Level Tube as shown, **See Figure 37.** The Cable Assembly should snap into the top of the Feed Level Cone and needs to be pulled up tight against the inside.



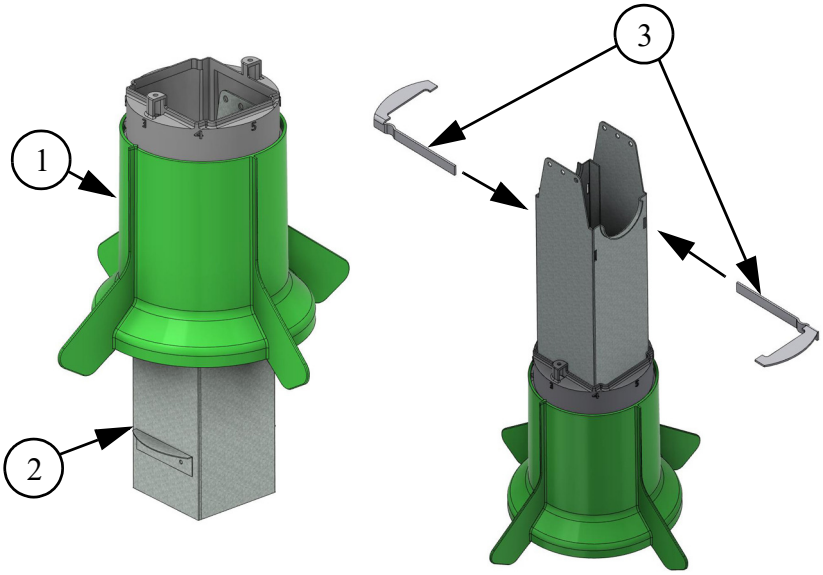
Item	Description	Part No.
1	Cable Assembly	53207

Figure 37.Cable Assembly Installation (Plastic Feed Cone)

Shield Supports

1.Insert the Drop Tube **(Item 2)** into the Feed Cone assembly **(Item 1)**, **See Figure 38.**

2.Install the Shield Supports **(Item 3)** in the slots of the Drop Tube.



Item	Description	Part No.
1	ATF Feed Level Cone Assembly	--
2	Drop Tube	--
3	Shield Support	44733U

Figure 38.Shield Supports

Metal Feed Level Ring

For some applications a Shallow Pan and a short Feed Level Cone may be used. Both applications shown.

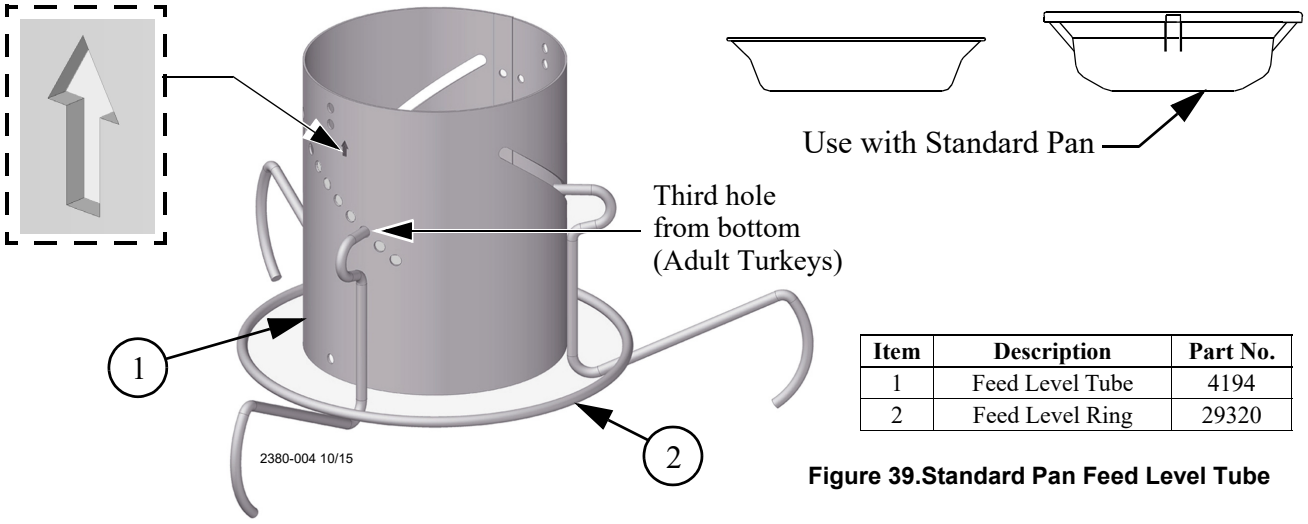
Adult Turkey (Standard Pan)

1.Attach the Feed Level Tube **(Item 1)** to the Feed Level Ring **(Item 2)** as shown in **Figure 39.**

•**Note** the direction of the arrow on the side of the Feed Level Tube.

2.Position the Feed Level Ring in the third hole from the bottom for adult turkeys.

3.If the Feed Level Tubes are to be winch adjustable, install the cable assemblies at this point **(See Figure 41.)**



Item	Description	Part No.
1	Feed Level Tube	4194
2	Feed Level Ring	29320

Figure 39.Standard Pan Feed Level Tube

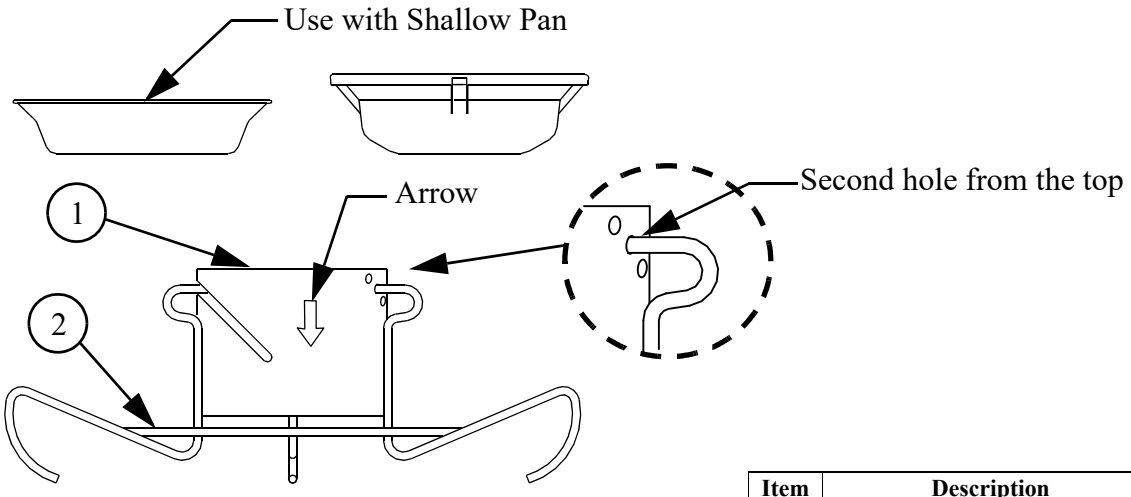
Stage 2 (Shallow Pan)

1.Attach the Feed Level Tube **(Item 1)** to the Feed Level Ring **(Item 2)** as shown in **Figure 41.**

•**Note** the direction of the arrow on the side of the Feed Level Tube.

2.Position the Feed Level Ring in the 2nd hole from the top.

3.If the Feed Level Tubes are to be winch adjustable, install the cable assemblies at this point **(See Figure 41.)**



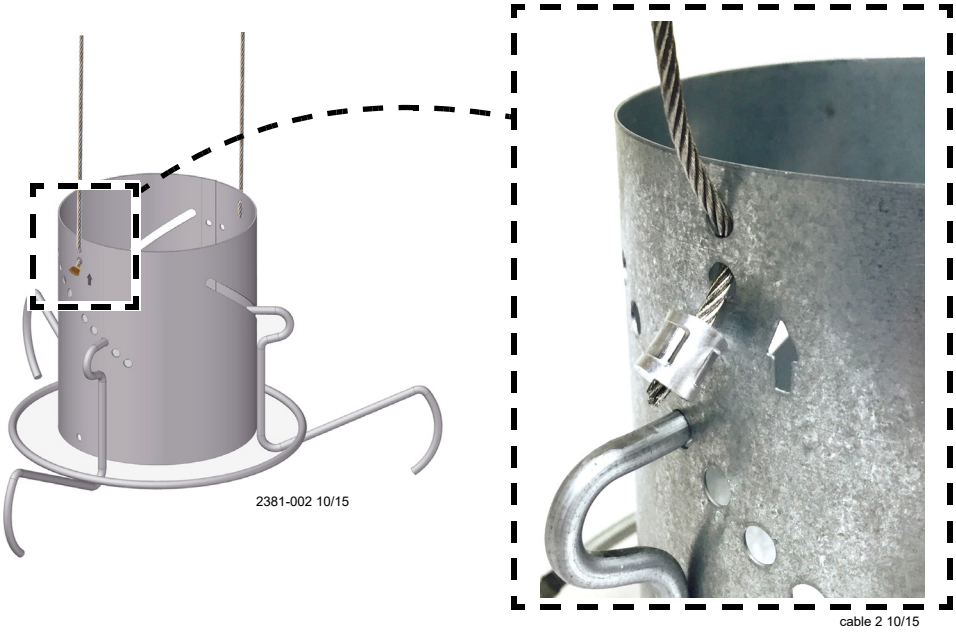
Item	Description	Part No.
1	Feed Level Tube (Short)	4341
2	Feed Level Ring	29320

Figure 40.Shallow Pan (2 Stage) Feed Level Tube

Cable Assembly

1.Install Cable Assemblies **(Item 1)** as shown in **Figure 41.**

Note: After the Feeder operates, re-adjustment of the Feed Level Tubes may be done to achieve the desired feed level.



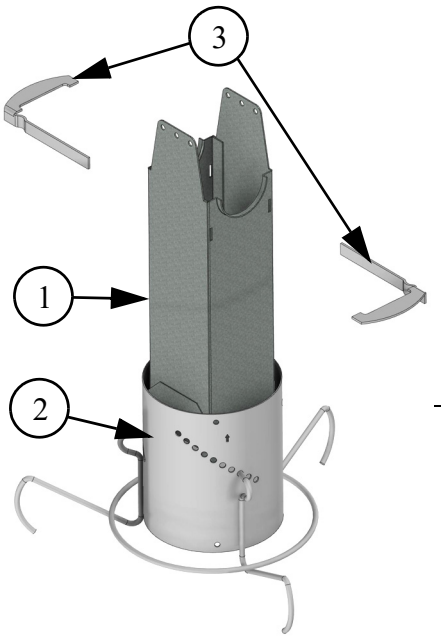
Item	Description	Part No.
1	Cable Assembly	53207

Figure 41.Cable Assembly Installation (Metal Feed Cone)

Shield Supports

1.Insert the Drop Tube **(Item 1)** into the Feed Level Ring Assembly **(Item 2)**, **See Figure 42.** Install the Shield Supports **(Item 3)** in the slots in the Drop Tube.

Do not bend the Shield Supports during assembly.



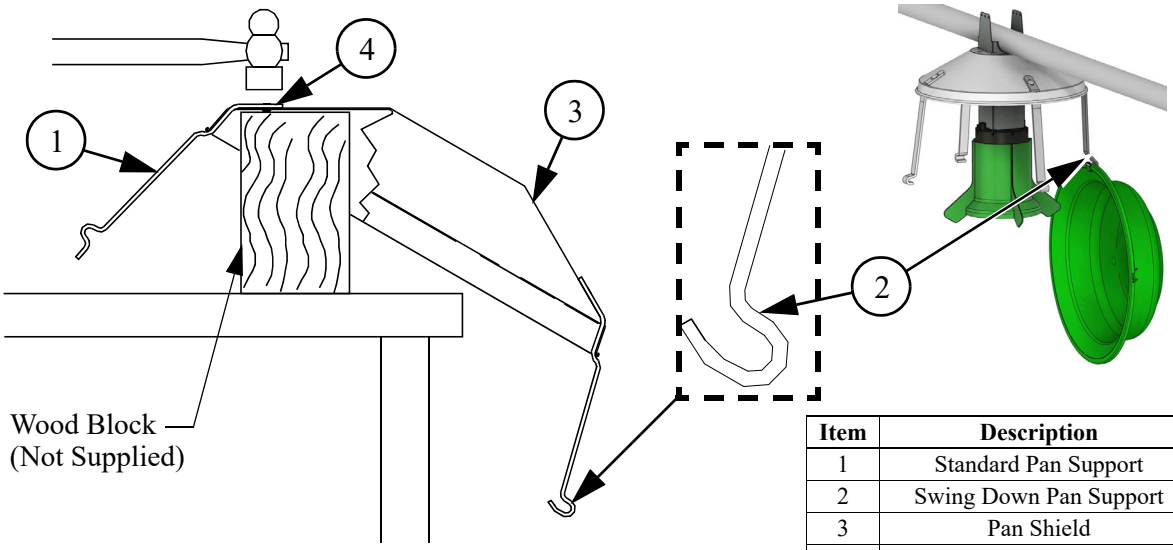
Item	Description	Part No.
1	Drop Tube	--
2	Feed Level Ring Assembly	--
3	Shield Support	44733U

Figure 42. Shield Supports

Pan Supports

Standard ATF

1. Attach three Standard Pan Supports **(Item 1)** and one Swing Down Pan Support **(Item 2)** to the Pan Shield using Rivets **(Item 3)** supplied. Pay special attention to where you locate the Swing Down Support so that the Pans will swing the direction for easiest access for cleaning. It will be necessary to support the Pan Shield while installing the Rivets. Use a hammer to drive Rivets as shown in **Figure 43.**

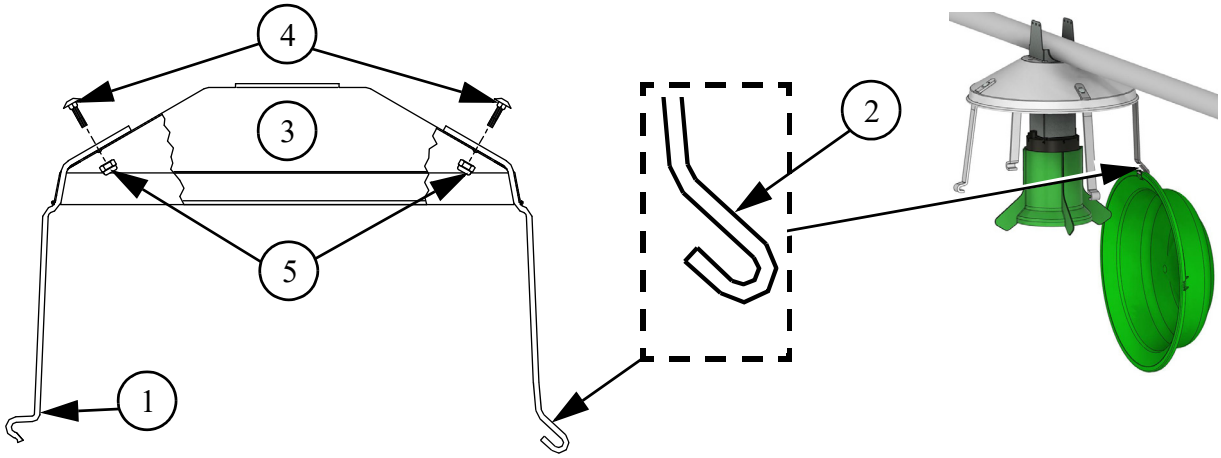


Item	Description	Part No.
1	Standard Pan Support	4199
2	Swing Down Pan Support	24274
3	Pan Shield	4192
4	Rivet	4200

Figure 43.Standard ATF Pan Shield Assembly

ATF Plus

2. Attach Three Standard Pan Supports **(Item 1)** to the Pan Shield **(Item 3)** using four Carriage Bolts **(Item 4)** and Lock Nuts **(Item 5)**.
3. Attach one Swing-Down Pan Support **(Item 2)**.

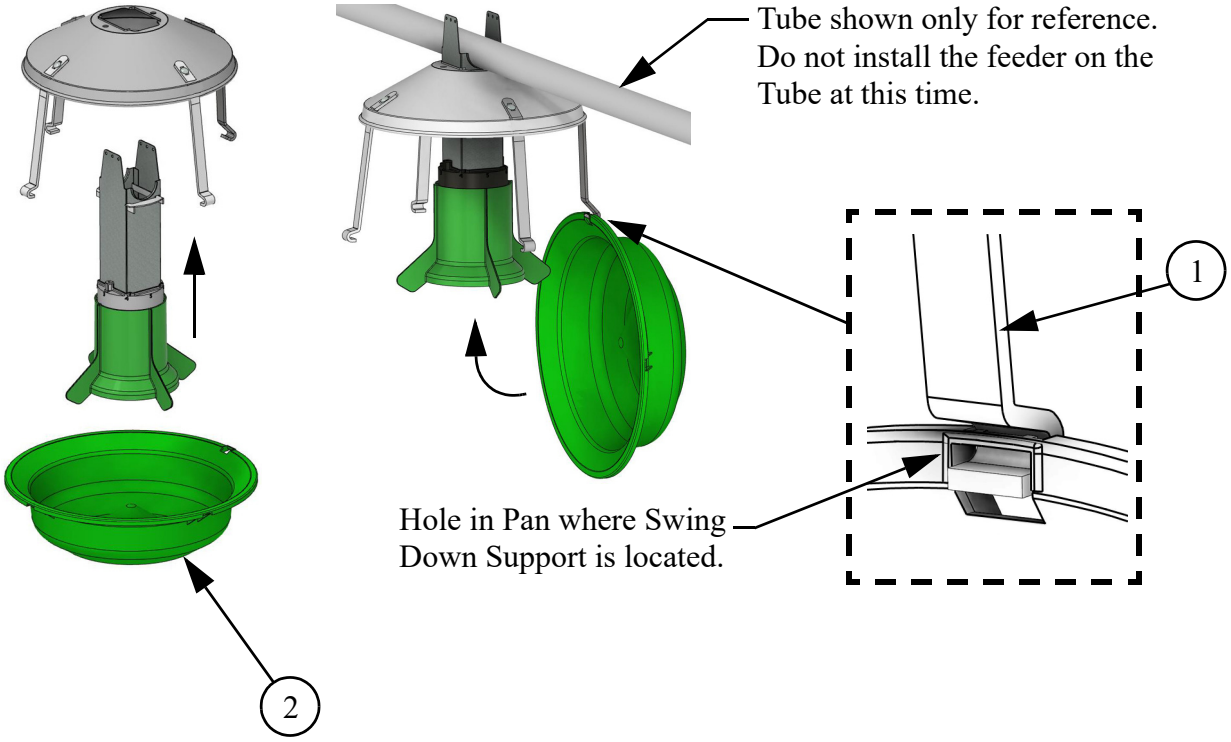


Item	Description	Part No.
1	Standard Pan Support	49171
2	Swing Down Pan Support	49172
3	Pan Shield	4192
4	1/4-20 x.625 Carriage Bolt	22692
5	1/4-20 Ny Insert Lock Nut	1269

Figure 44.ATF Plus Pan Shield Assembly

Assembling Feeder

1. Insert the Feeder Tube Assembly into the Pan Shield making sure it is oriented such that the Swing Down Pan Support **(Item 1)** is in the desired location.
2. Hook the Swing Down Pan Support on the Hole that is formed in the Feeder Pan.
3. Swing the Feeder Pan up and Snap the other three Pan Supports onto the lip of the Feeder Pan.



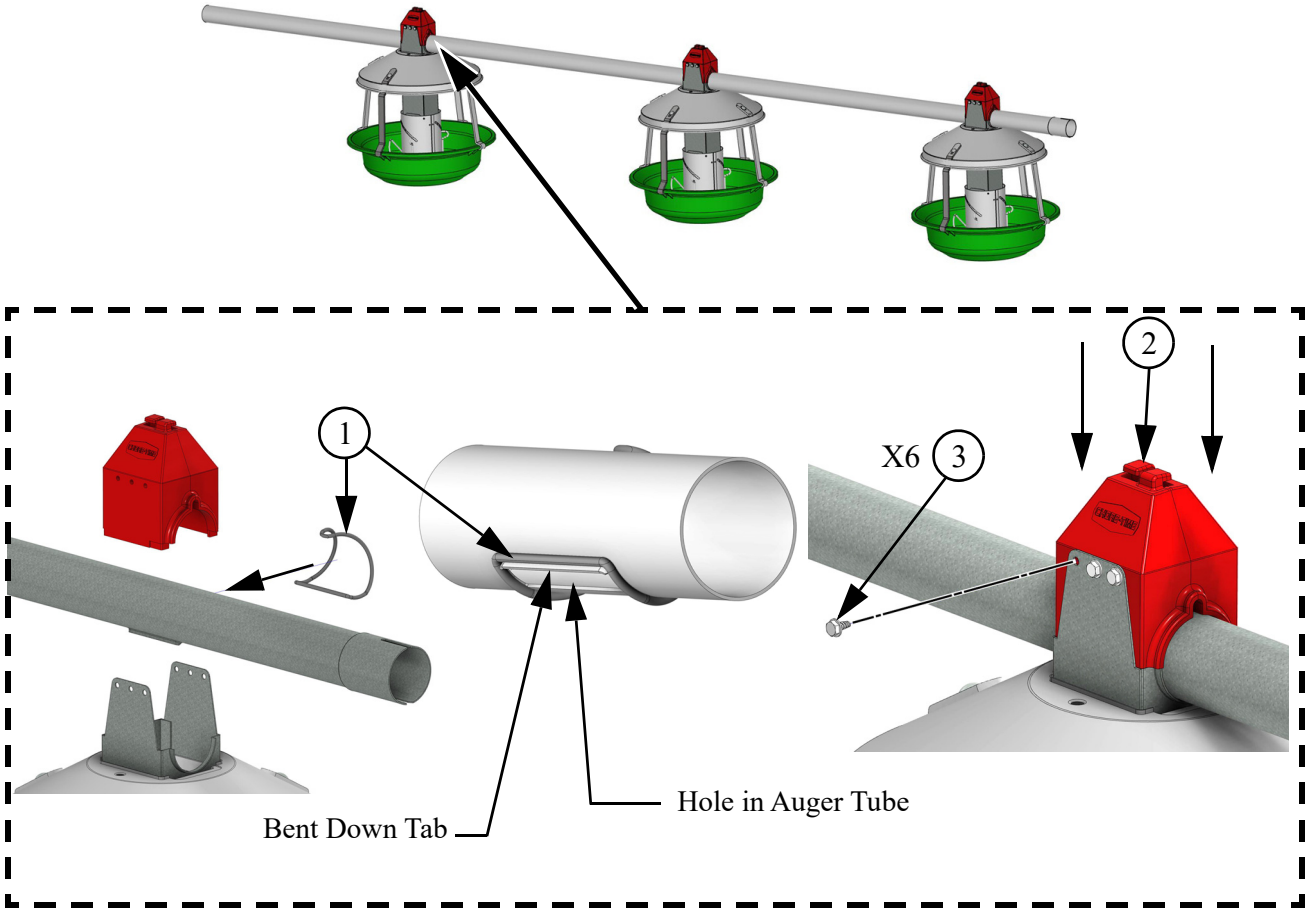
Item	Description	Part No.
1	Swing Down Pan Support	49172
2*	Plastic Feeder Pan	29000X
*X= 29000G (Green Pan), 29000 (Red Pan)		

Figure 45.Feeder Assembly

Feeder Installation

The Feeders are designed to swing down for cleaning. Determine which way you want your Pans to swing down and install the Feeders accordingly.

1. Install Spacer Clips **(Item 1)** at each hole on the Auger Tubes **as shown in Figure 46.** The Spacer Clip surrounds the Bent down tab formed into the Auger Tube. These Spacer Clips keep the Feeder from moving side to side on the Auger Tube.
2. Fasten the Feeders to the Feed Tube using the ATF Drop Tops **(Item 2)** and #10-3/8" Screws **(Item 3) as shown**.



Item	Description	Part No. Single Boot Kit
1	Spacer Clip	57092
2	ATF Plus Drop Top	56560
3	10-3/8 HWHD Screw	5776

Figure 46. Install Feeders on Tubes

Winch Adjustable Feed Level Cones

Chore-Time's Adult Turkey Feeder can be equipped to provide Winch adjustable Feed Level Cones. Existing systems can be (easily) upgraded to include Feed Level Cone winching components. The Feed Level Cones are adjusted using a Winch and cable. The maximum line length for each Winch is 200'(61 m). The Winch should be located in the middle of the line of Feeders **See Figure 47.**

The Feed Level Cones are winched up to flood the Pans with feed to allow maximum access to the feed for young turkeys. As the birds grow the Feed Level Cones can be lowered to reduce the feed level.

Installation of the Winch Adjustable Feed Level System

Parts to Install the Winch are included in Winch Kit Part No. 53197

1. Install a Spring at one end of the Feeder Line and attach the end of the Cable to it as shown in **Figure 47.**
2. Use two U-bolts to fasten the Winch to the Feeder Line Tube, **See Figure 47.** The Winch should be placed in the center of the line of Feed Level Cones it will adjust, as shown in **Figure 47.**

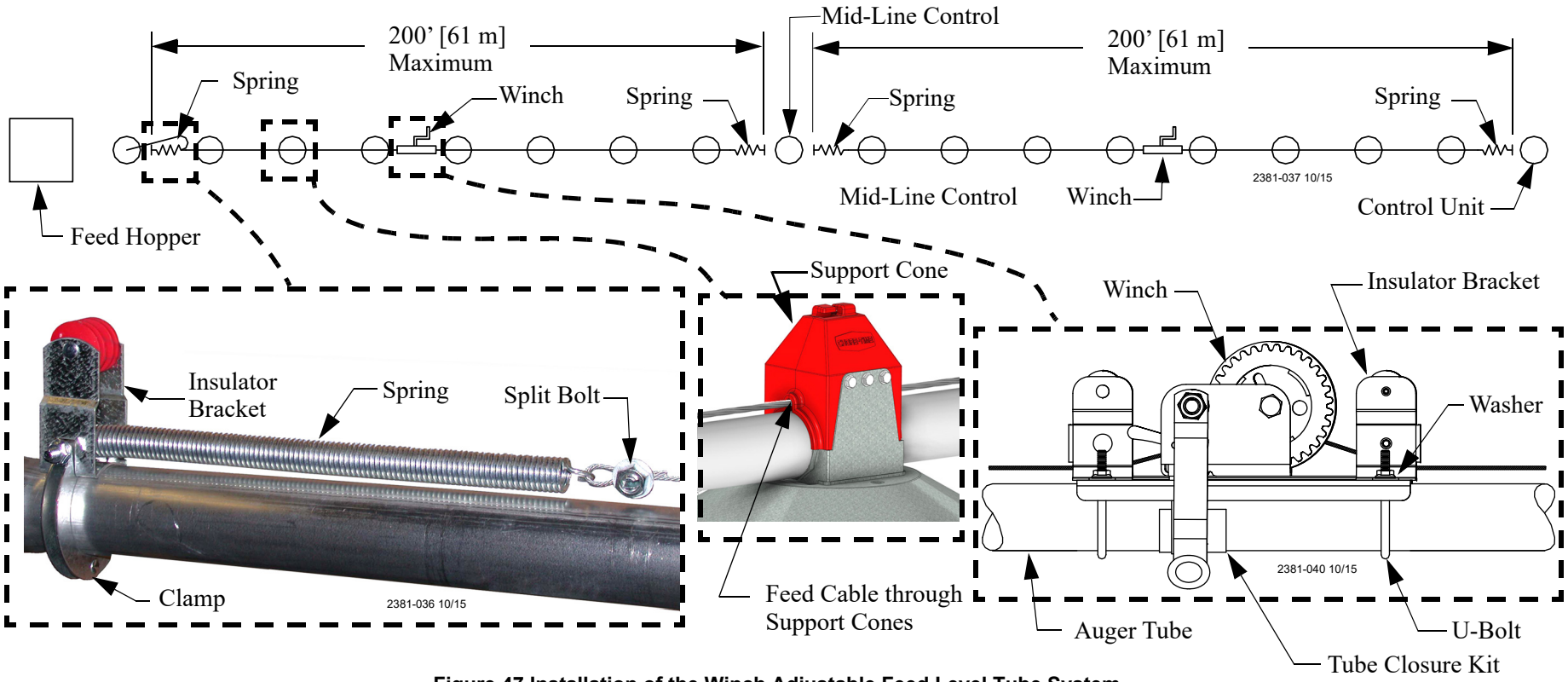


Figure 47.Installation of the Winch Adjustable Feed Level Tube System

3. Feed the Cable through the Feeder Support Cones to the Winch. Winch Cable Routing **shown** in **Figure 48.**
4. Route the Cable through the Center Hub of the Winch **as shown** below in **Figure 48.**
5. With the Cable in place, install the Center Clamp and tighten the Set Screws.
6. Route the Cable through the Feeder Support Cones to the end of the Feeder line.
7. Install a Spring and Insulator at the other end of the Feeder Line and fasten with a Split Bolt.
8. Feed the Cable through the Feed Cones to the Spring at the other end of the Brooding area.

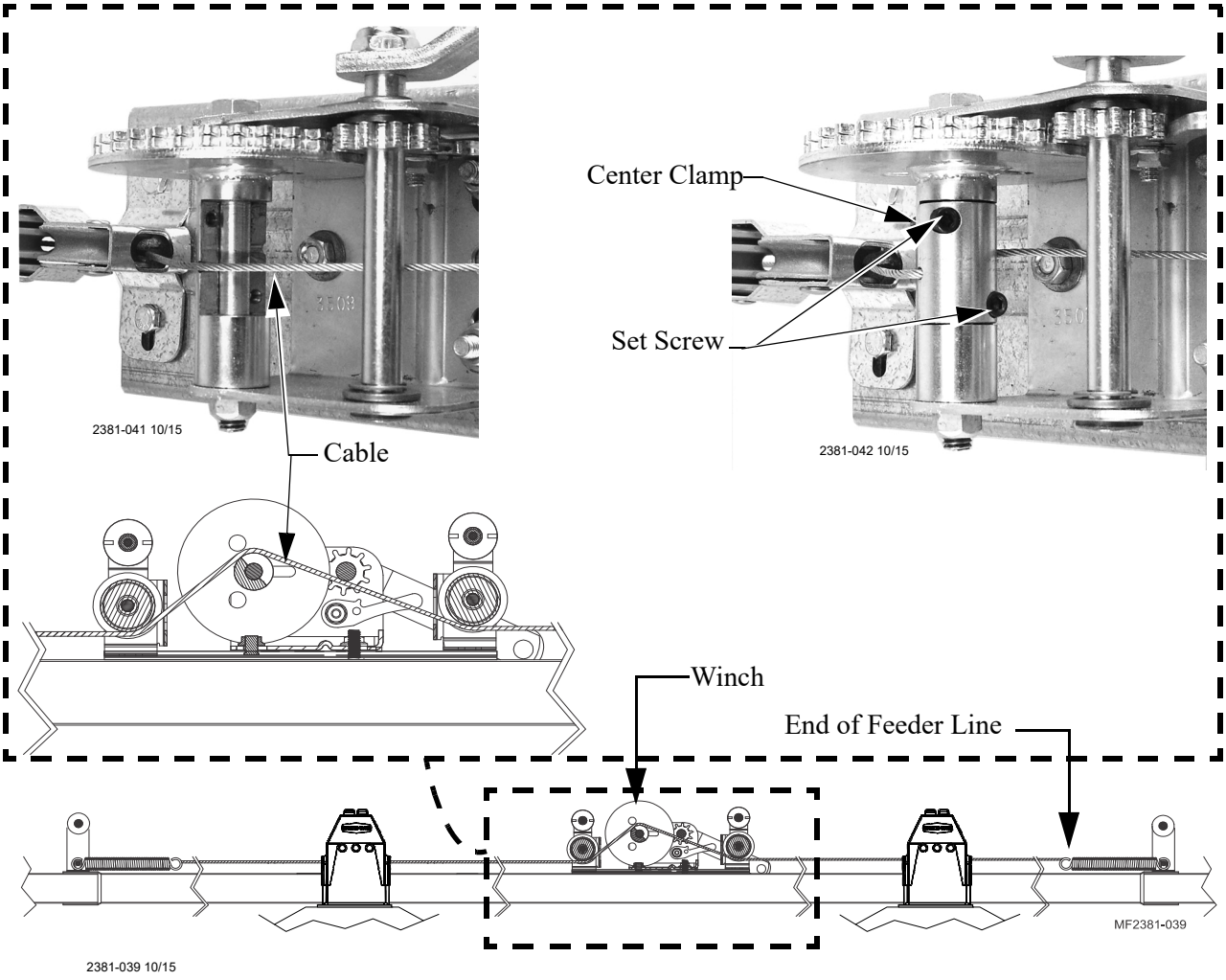


Figure 48.Cable Routing at Winch

9. With the Winch Actuator set to the "A" position stretch the Spring approximately 1" [25mm] and fasten the Cable to the Spring with a Split Bolt.

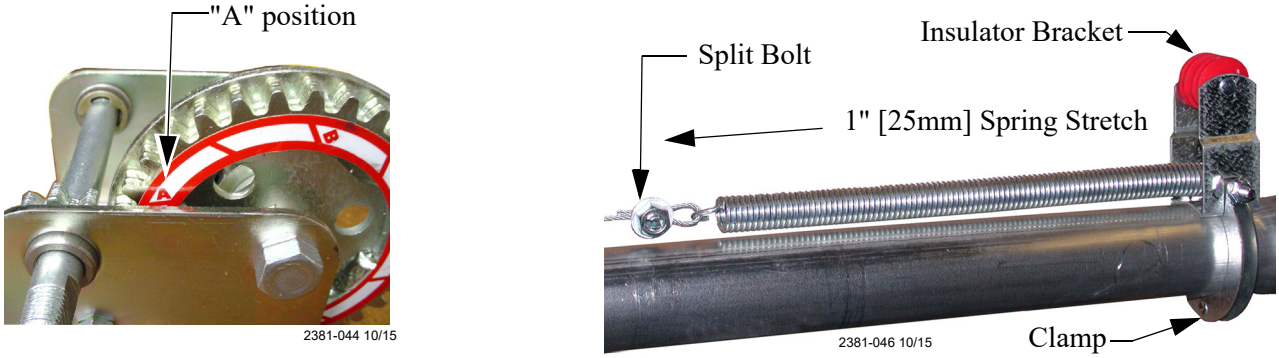
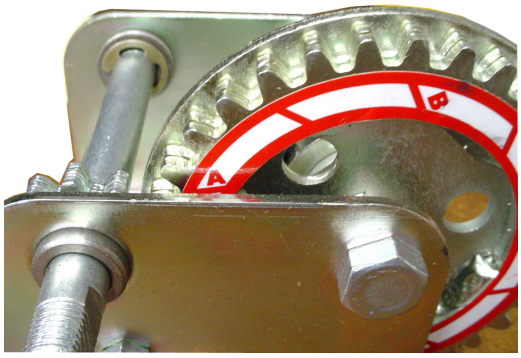


Figure 49.Actuator Setting and Spring Stretch

Attaching Feeder Cable Assemblies

1. With both end of the Cable securely anchored and Spring stretch set, run the Actuator up and down 2 to 3 times. Return the Actuator to A position.



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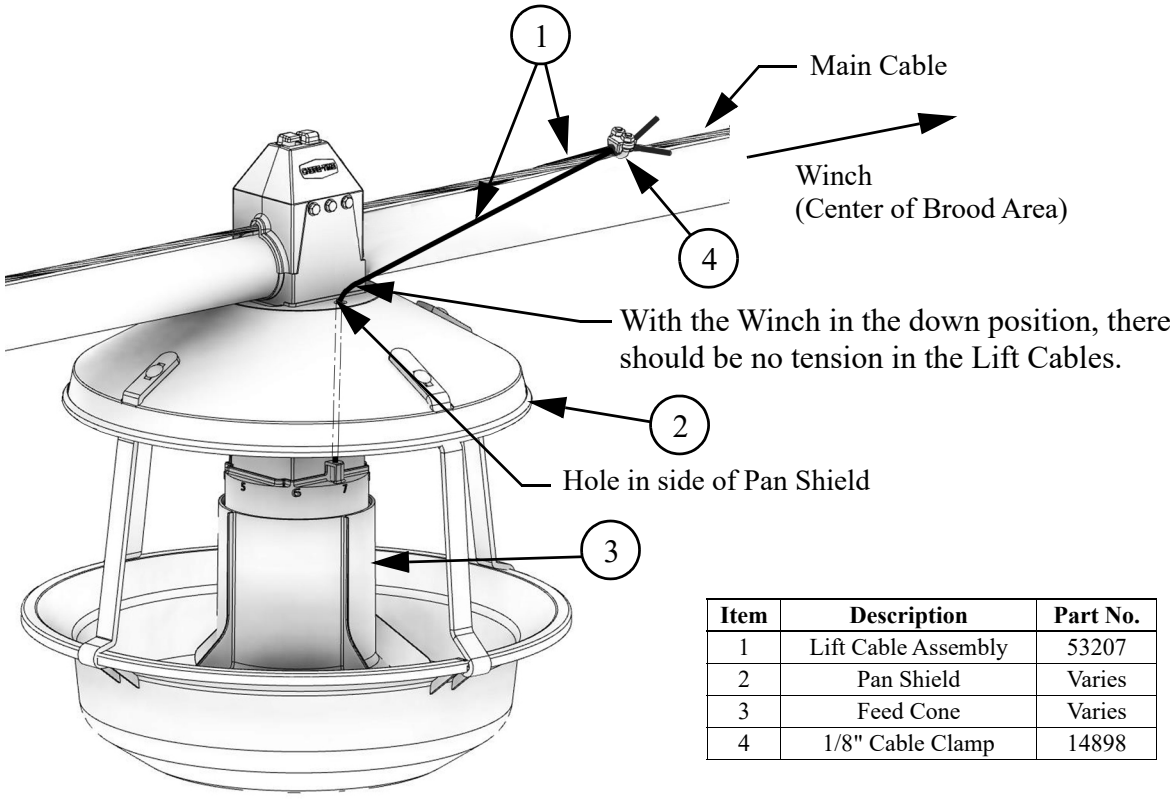
2. Install two Cable Assemblies **(Item 1)** at each Feed Level Cone (if the cable assemblies have not yet been installed). **See Figure 37 (on page 33)** or **See Figure 41 (on page 35)**.
3. Thread the Cable Assemblies through the holes on each side of the Pan Shield **(Item 2)** from the underside.
4. Use the Cable Assemblies to raise the Feed Cone **(Item 3)** and then return it to the down position. Starting at the Winch, pull the Cable Assemblies toward the Actuator and fasten to the Main Cable with an 1/8" Cable Clamp **(Item 4)**. **Important! The Cords must be routed toward the actuator (center of the brood area).**



Item	Description	Part No.
1	Lift Cable Assembly	53207
2	Pan Shield	Varies
3	Feed Cone	Varies
4	1/8" Cable Clamp	14898

Figure 50.Attaching Feeder Cable Assemblies

Anti-Roost Installation

1. Unroll the bulk anti-roost cable.

   Note: If the cable is unrolled as shown in Figure 51, taking 5 loops of the coil with one hand and then changing hands to remove 5 loops as it is unrolled the cable will lie flat during installation.

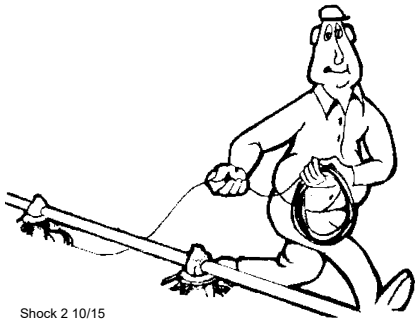


Figure 51. Unrolling the Cable

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 3/32” cable clamp as shown in **Figure 52.**
3. Insert the cable in the insulator on the top of each grill support between the hopper and the next anti-roost bracket.

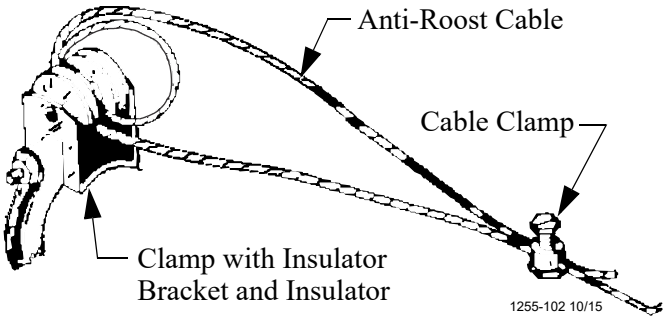


Figure 52. Anti-Roost Cable at the Hopper

4. Attach a spring in the center groove at the second anti-roost bracket and cut the cable at this point, **(See Figure 53.)**
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 from a loop and cut off any excess, **(See Figure 53.)**
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 as shown in **Figure 53.**
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.

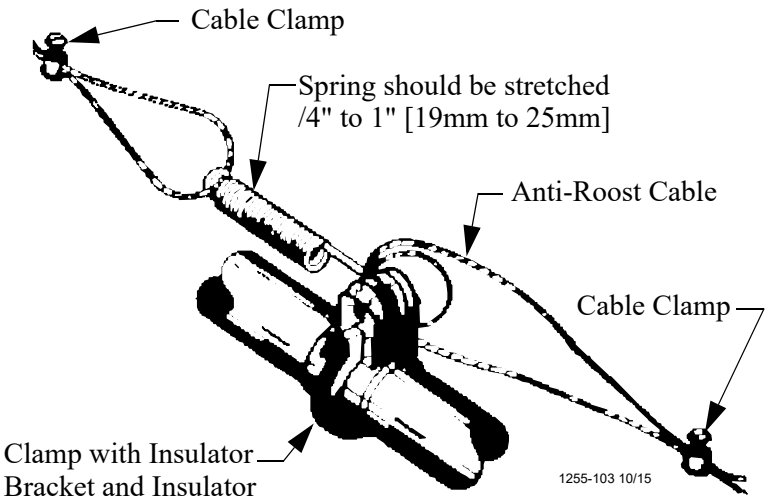


Figure 53. Anti-Roost Cable at the Hopper

8. Repeat this installation until the anti-roost cable is installed along the feeder line.

9. At the control unit, 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 54.)** Install the wire form on the control unit insulators. Be sure the guard snaps into the retainers molded into the insulators. **(See Figure 54.)**

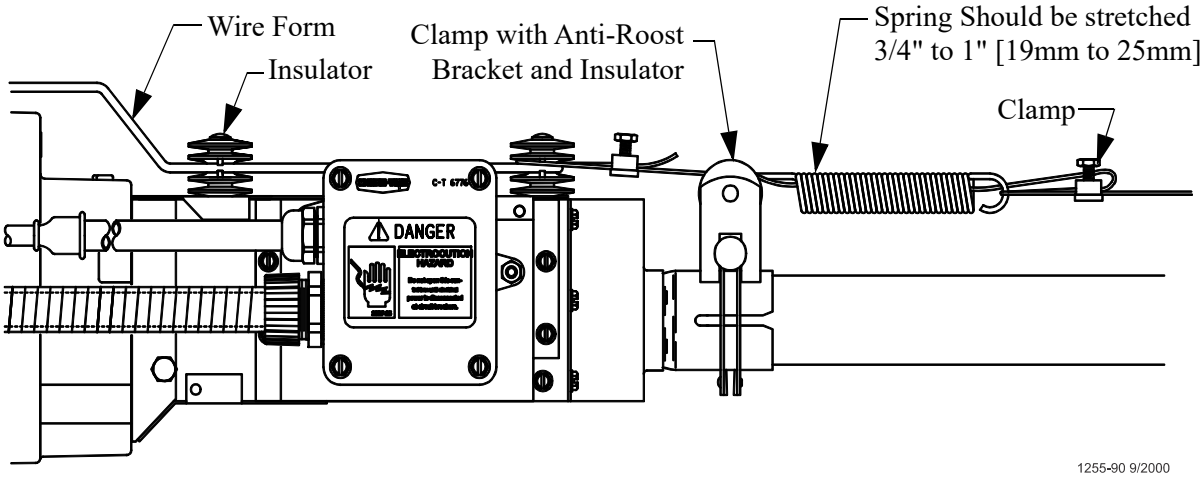


Figure 54.Anti-Roost Installation at the Control Unit

Anti-Roost Jumper

1. Install a Anti-Roost Jumper at the Actuator as shown in **Figure 55.**

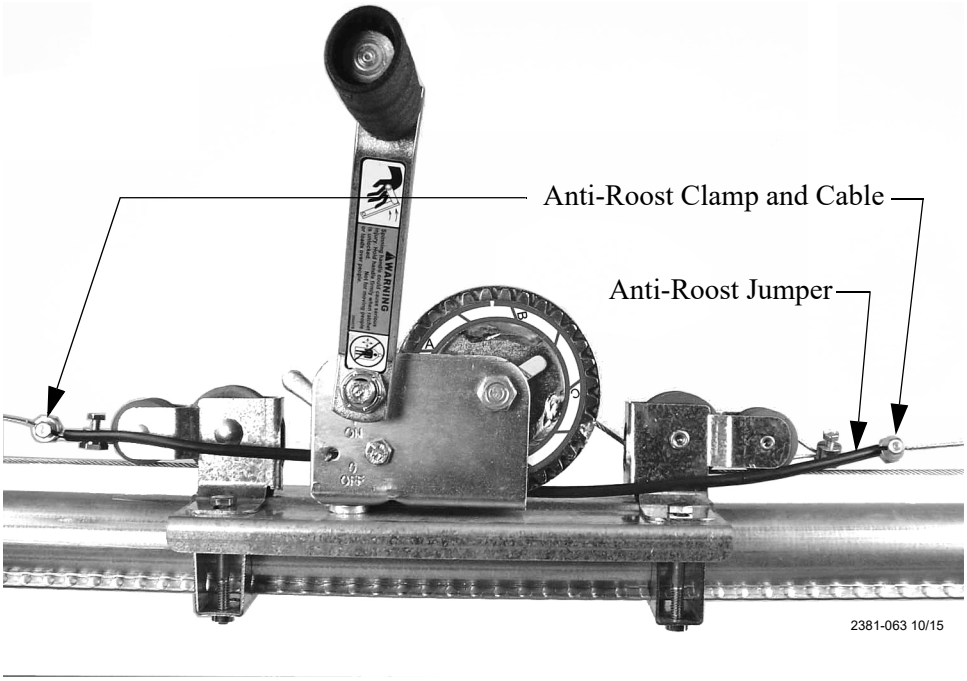


Figure 55. Anti-Roost Installation at the Actuator

2. Install the poultry trainer or line charger, as shown in **Figure 56 or Figure 57**.
3. Route the charger wire from the poultry trainer or line charger to the anti-roost system. Secure the charger wire to the anti-roost cable, using a cable clamp.
4. The anti-roost system must be on a separate electrical circuit, allowing the system to be disconnected by a switch near the door.

Note: The anti-roost system should be grounded through the poultry trainer.

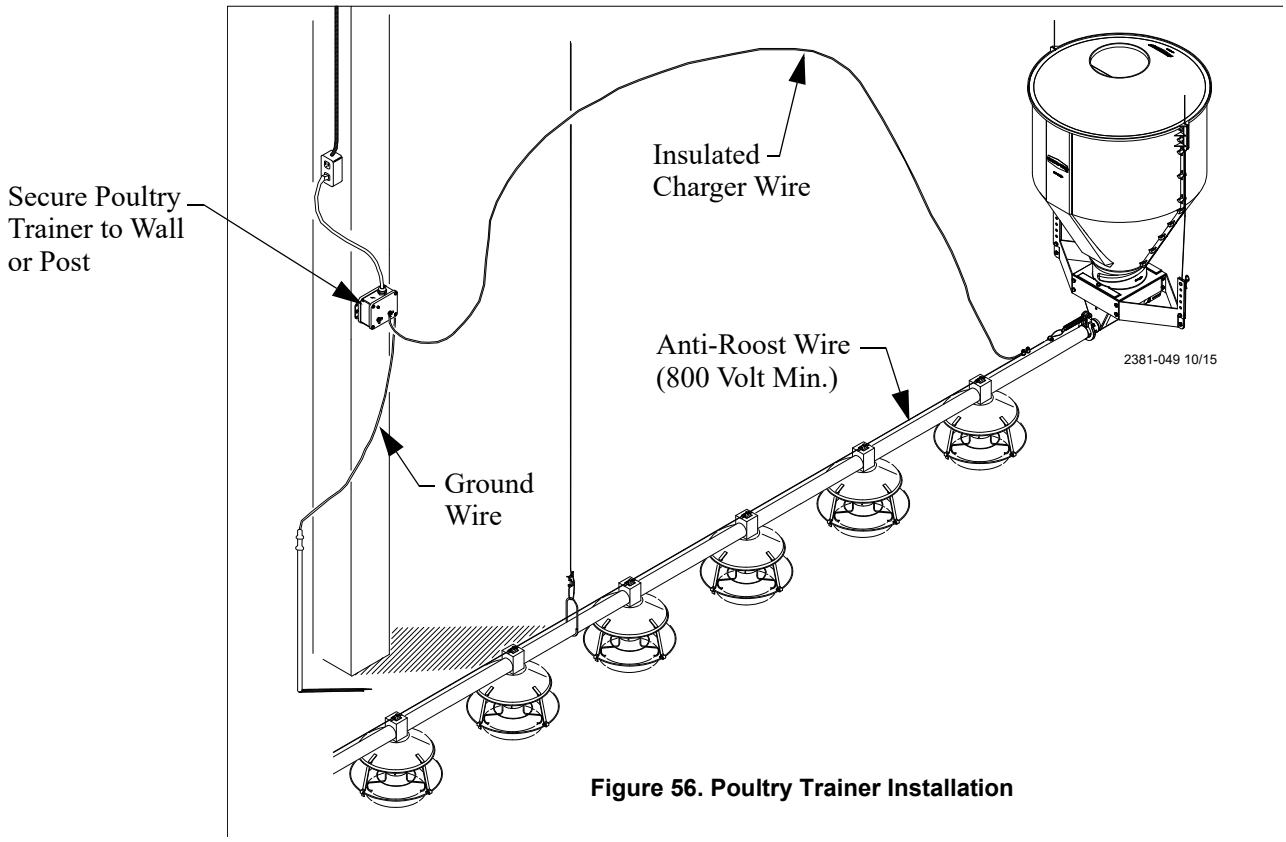


Figure 56. Poultry Trainer Installation

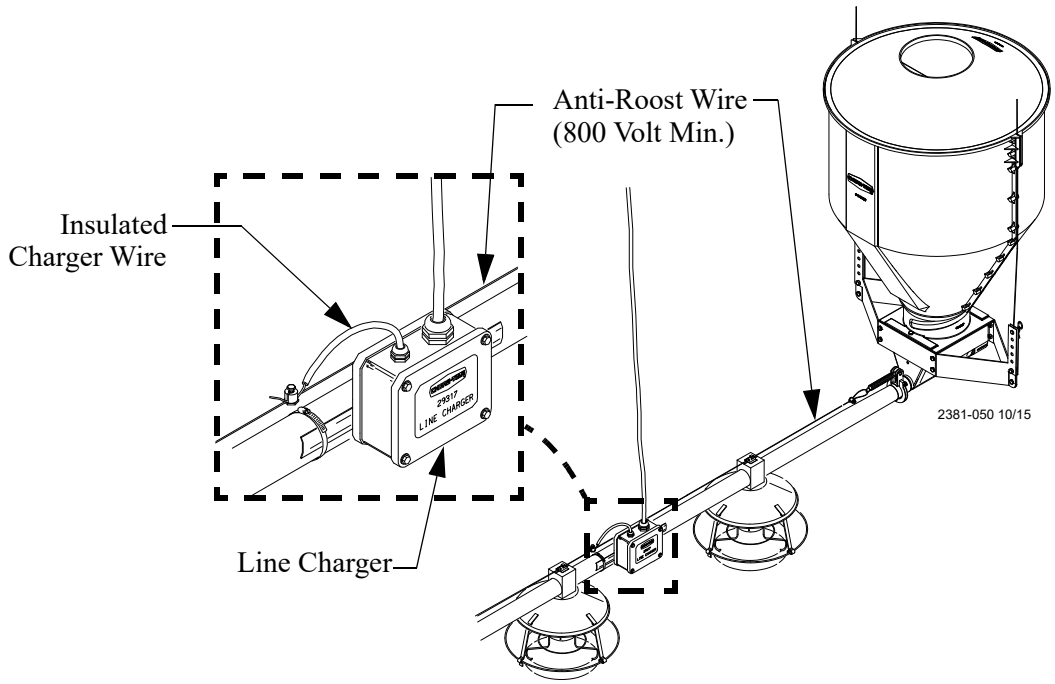
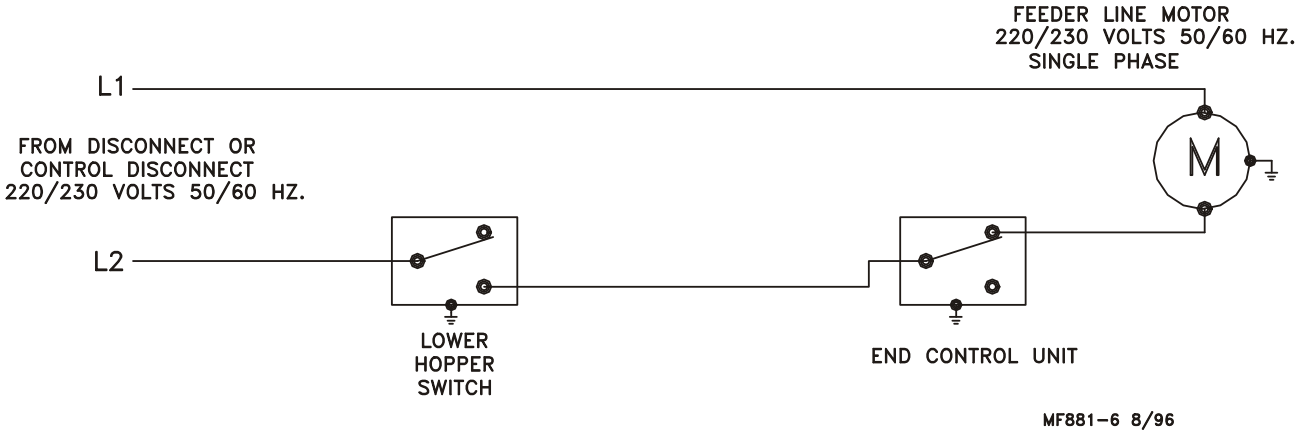


Figure 57.Line Charger Installation

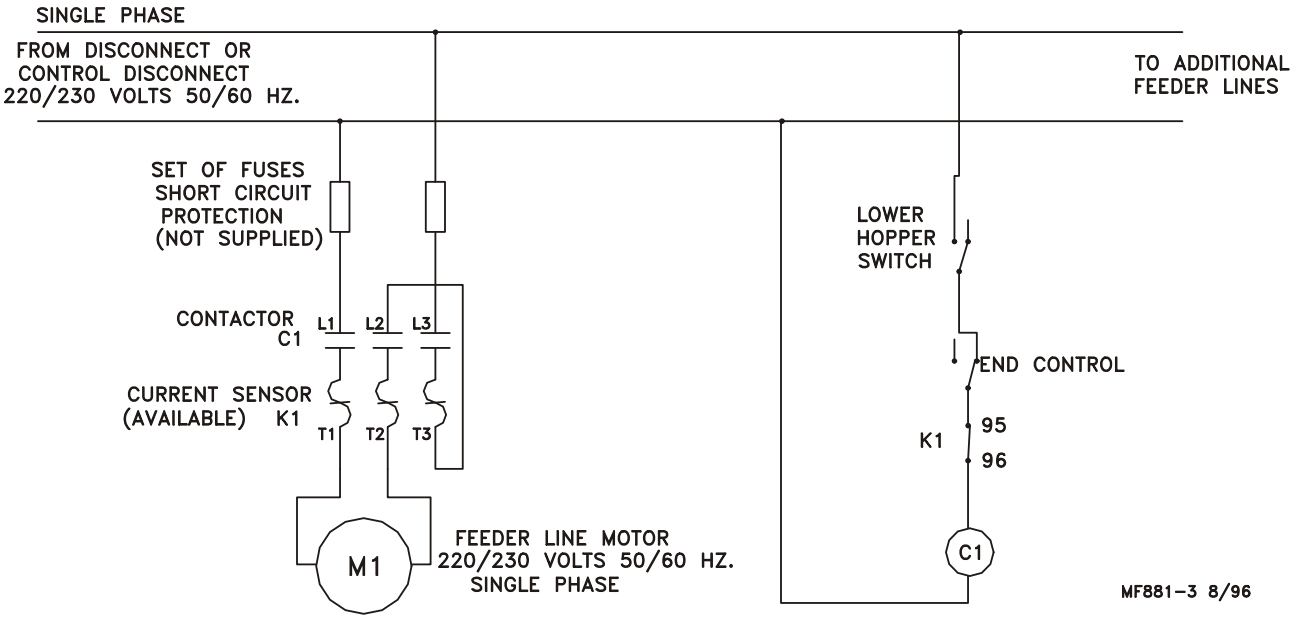
Wiring Diagrams

End & Mid-Line Control Wiring Diagrams: Single Phase(Ø)

Single Phase(Ø) Wiring Diagram

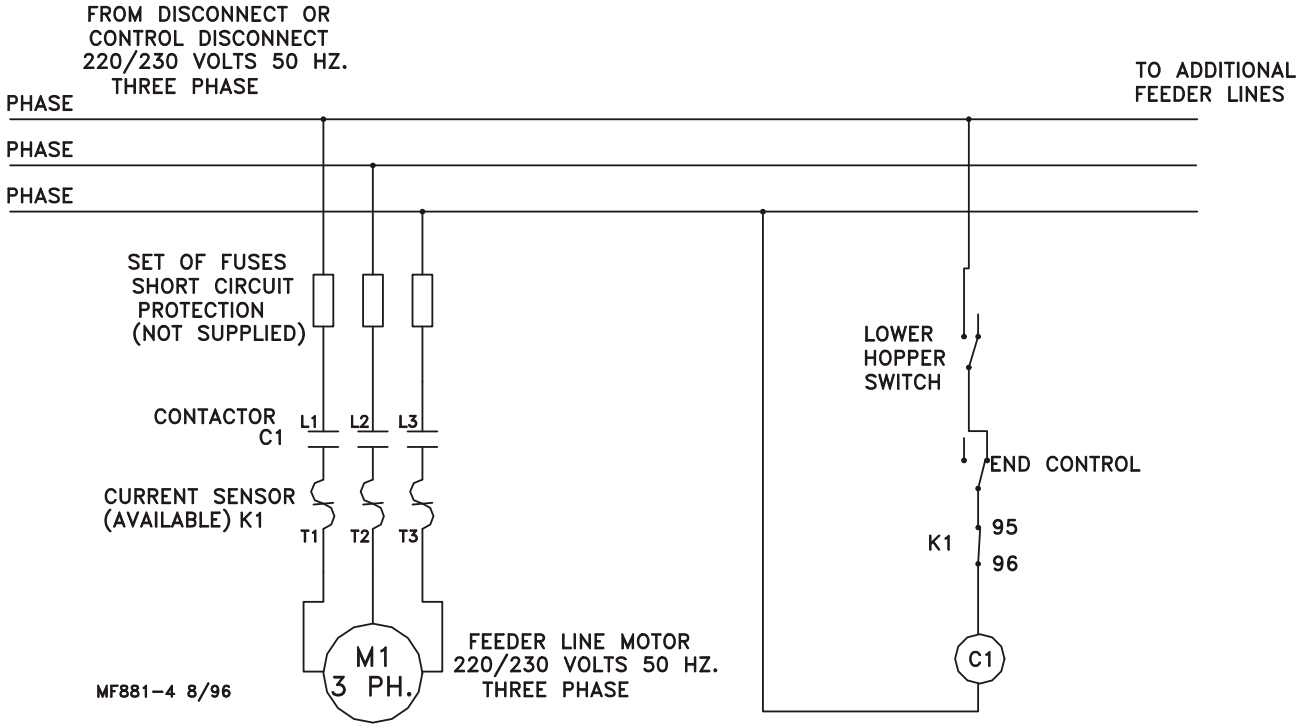


Single Phase(Ø) Wiring Diagram w/Motor Starter

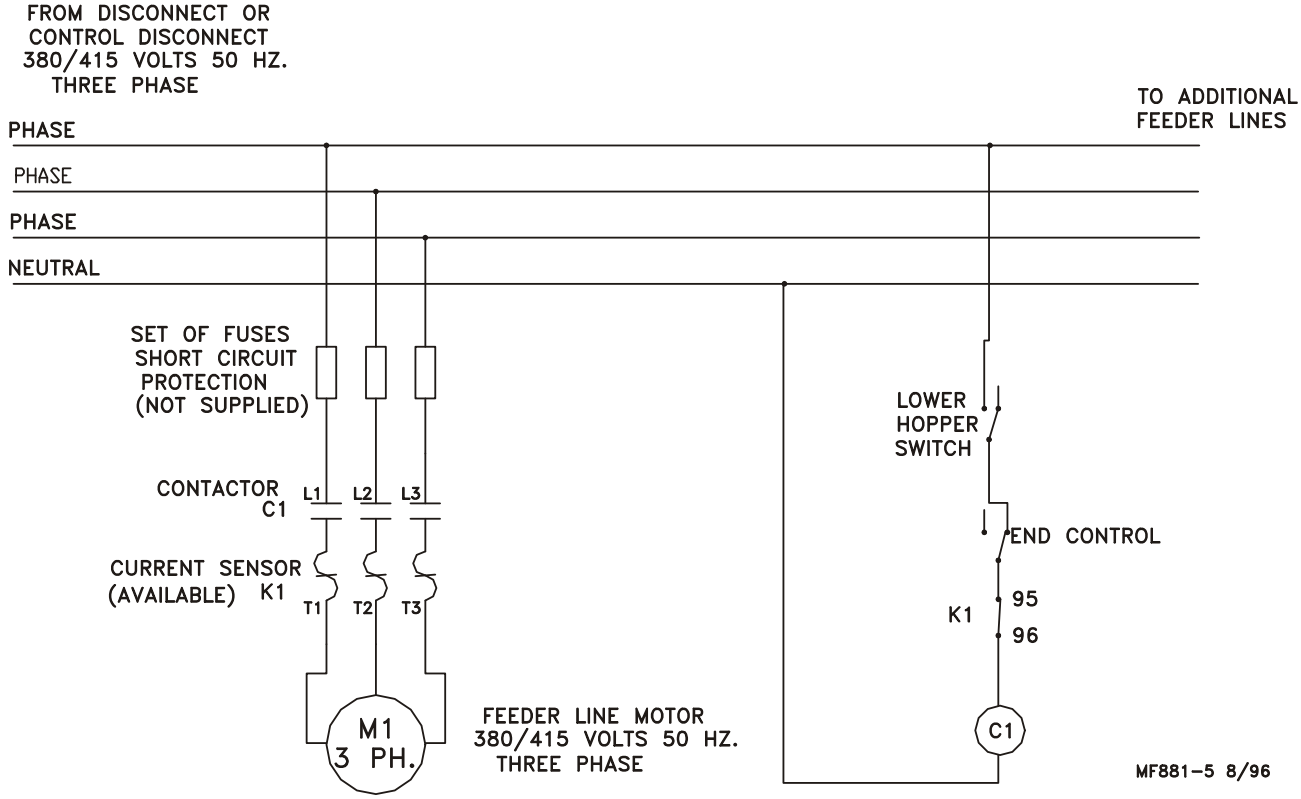


End & Mid-Line Control Wiring Diagrams: Three Phase(Ø)

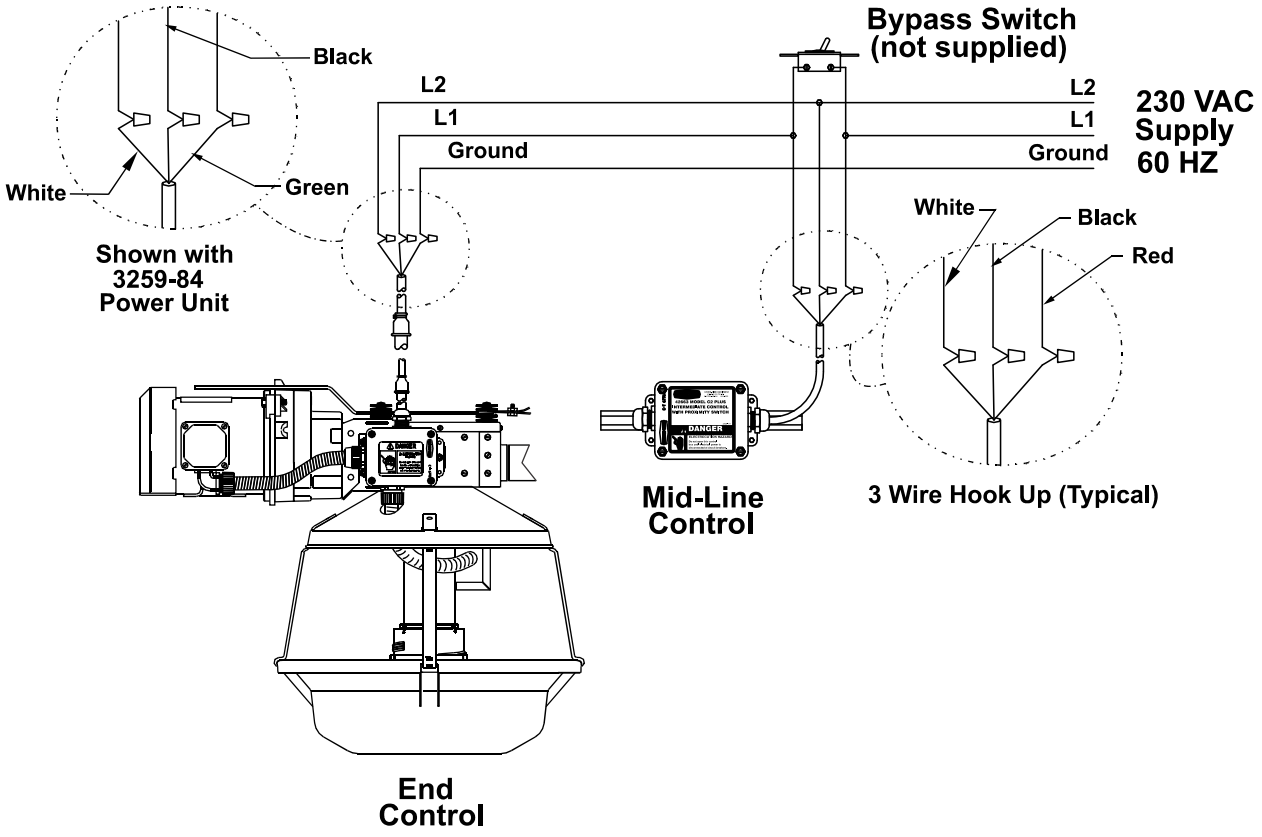
Three Phase(Ø) Wiring Diagram: 220/230 V.



Three Phase(Ø) Wiring Diagram: 380/415 V.



Sensor Control Wiring Diagram



Operation

Maintaining the Feeding System

Floor Feeding System Maintenance

The MODEL ATF™ and MODEL ATF™ PLUS require 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 58.**

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

1. Remove the Bottom Pipe Plug to drain the oil. Discard used oil in accordance with local and national codes.
2. Wipe any debris off the magnet on the bottom pipe plug and reinstall. Remove the Side Pipe Plug and (Top) Vent Plug.
3. Set the Power Unit in the horizontal position.
4. Add Oil:
   - 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.
5. Install the Side Pipe Plug and (Top) Vent Plug.

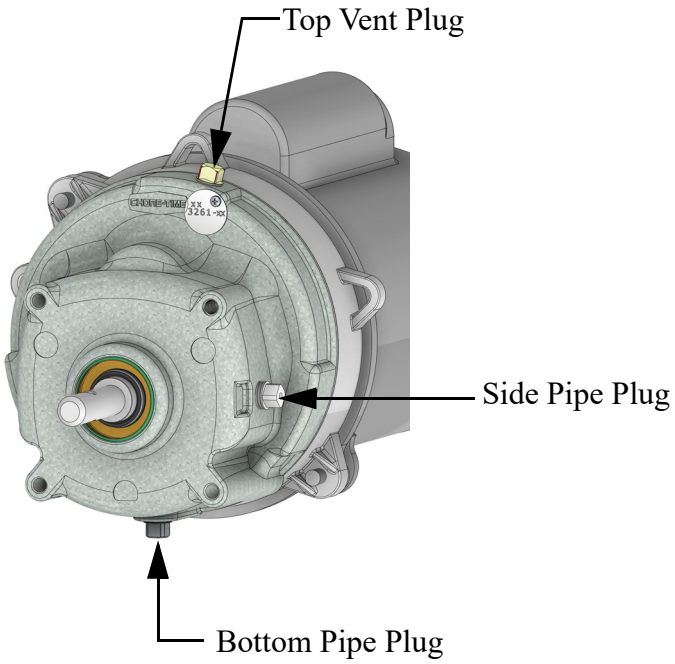


Figure 58.Gearhead Maintenance

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

Mechanical Switch Adjustment procedure for Control Units

A. Turn the adjustment Screw clockwise until it clicks.
B. Turn the adjustment Screw counter-clockwise 2 to 2-1/4 turns.

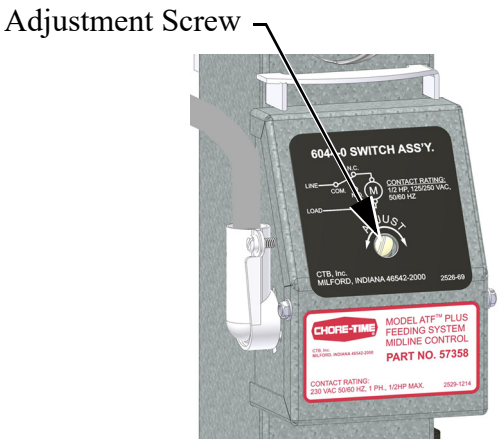


Figure 59.Manual Switch Adjustment

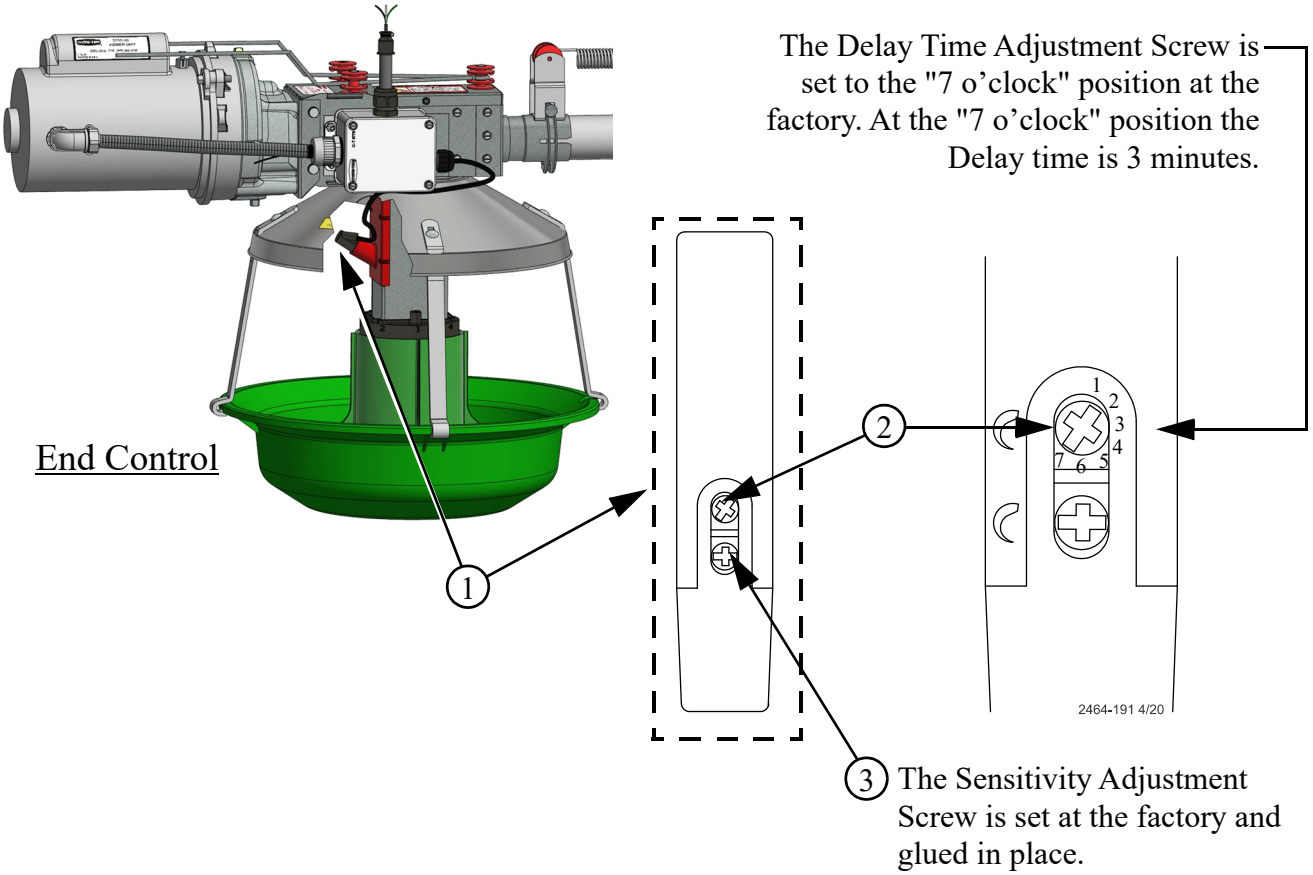
Proximity Sensor Adjustment procedure for Control Units

Sensitivity Timer: The Feeder Comes with the Sensitivity Timer adjustment Screw factory set and Glued in position. (Do not Adjust).

Time Delay: The Delay Time is Factory Set to 3 Minutes. **See Figure 60.**

To adjust the Time Delay:

•For less time — turn Time Delay Selector counter-clockwise.
•For more time — turn Time Delay Selector clockwise.



Item	Description
1	Proximity Sensor
2	Delay Time Adjustment Screw
3	Sensitivity Adjustment Screw

Figure 60.Proximity Sensor Adjustment

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.

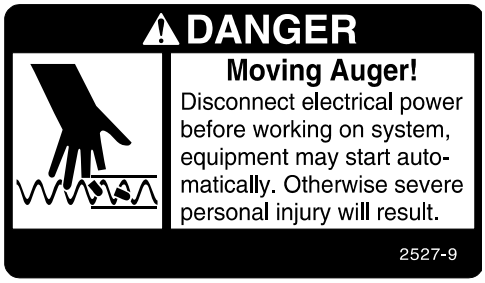
Remove all feed from the feeder when there are no birds in the house and when the building is washed and disinfected.

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.



1. Disconnect power to the entire system.
2. Loosen the tube clamp on the bearing at the hopper end of the system. Remove the tube clamp and bearing retainer.
3. Pull the anchor and bearing assembly and approximately 18" *[45 cm]* of auger out of the boot.

CAUTION: Stand clear...the auger may spring back into the tube.

4. Place a clamp or locking pliers securely on the auger to prevent it from springing back into the auger boot.
5. Loosen the setscrew in the bearing assembly shaft and remove the anchor and bearing assembly from the auger.

To reinstall the Anchor and Bearing Assembly:

1. Insert the anchor assembly into the auger until it touches the washer at the back of the anchor. Tighten the setscrews in the center of the anchor until they touch the auger, then tighten a maximum of 1/2 turn. See **Figure 61.**.
2. **DO NOT OVERTIGHTEN THE SET SCREWS**.
3. **Carefully** remove the locking pliers while holding onto the anchor and bearing assembly and auger securely. **Slowly** ease the auger back into the tube. Use caution. If the auger is allowed to spring back, the bearing race may crack.

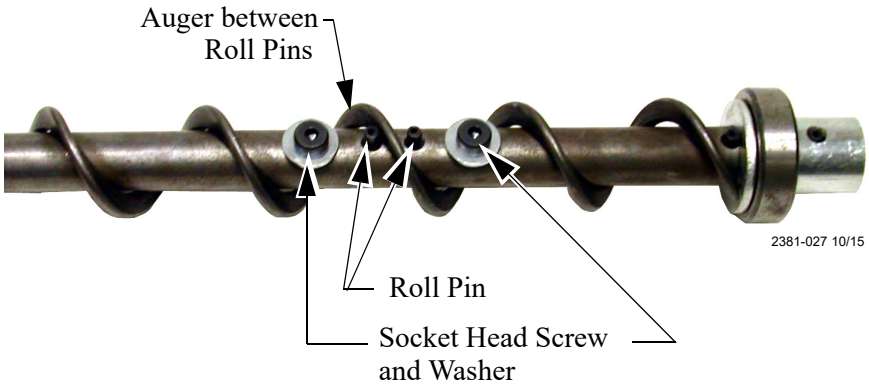


Figure 61. Auger and anchor Bearing Connection

Install the bearing retainer and fasten with a tube clamp. Keep the bearing retainer flush with the end of the anchor for safety.

Power Lift Winch Maintenance

Refer to **Figure 62.**

Grease the Winch every 6 months with 1 to 2 shots of common industrial or automotive grease.

DO NOT OVER GREASE THE WINCH.

Remove any feed build-up in the Safety Switch Boxes in the Control Units.

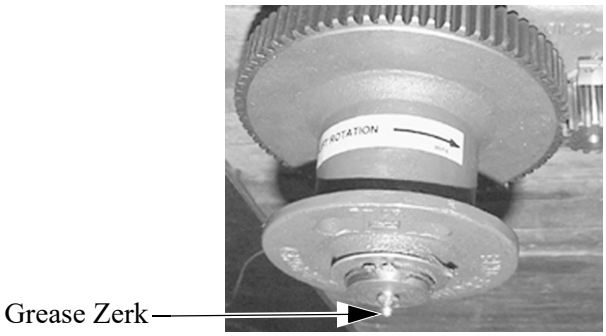
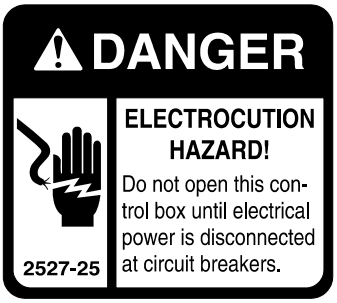
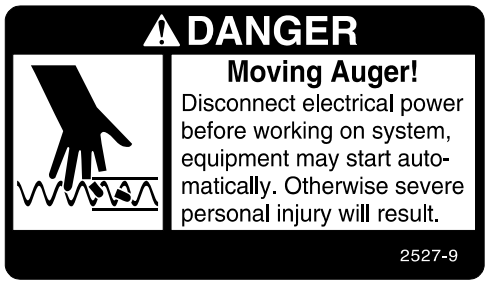


Figure 62. Maintenance to the Power Lift Winch

It may be necessary to periodically re-tighten the Shocker Cable. Be sure to disconnect power to the Shocker before servicing the equipment.





Trouble Shooting the Feeding System

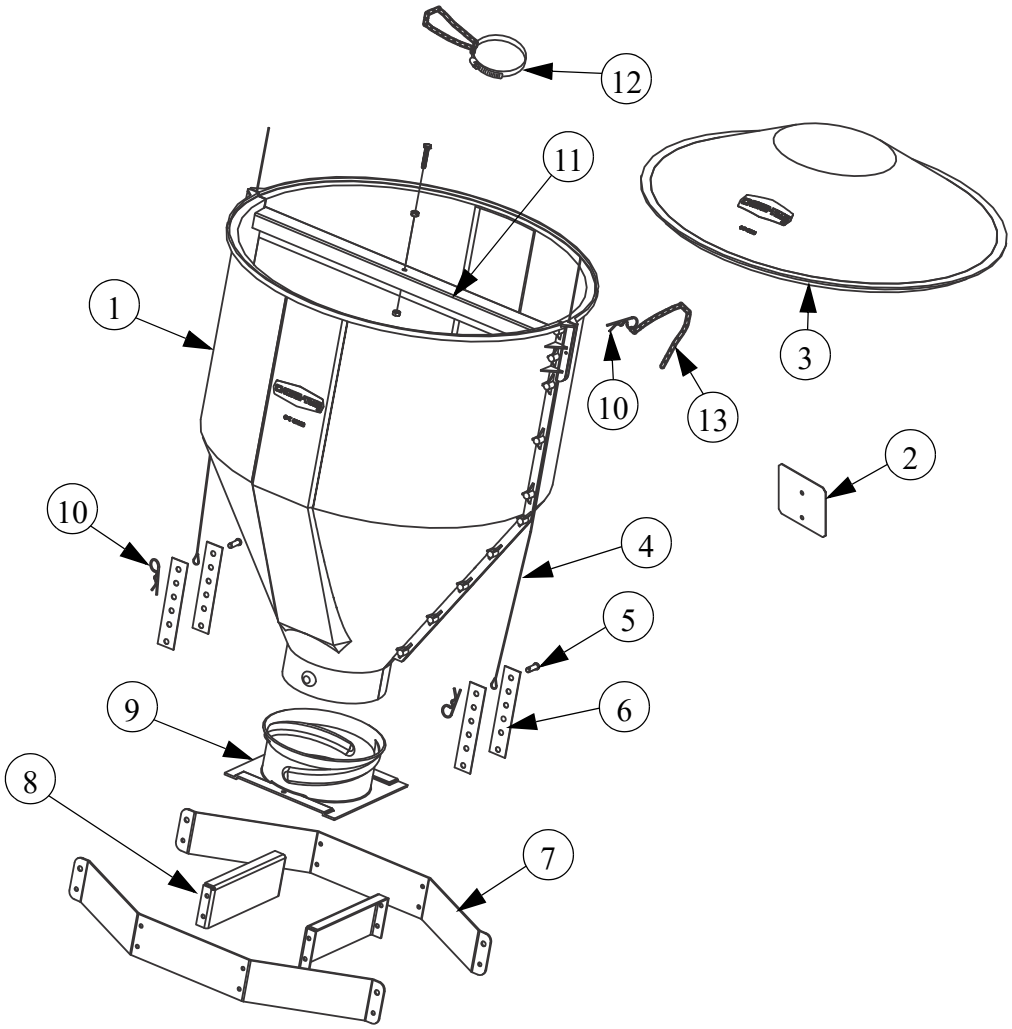
ALWAYS DISCONNECT POWER TO THE SYSTEM WHEN SERVICING OR MAINTAINING THE EQUIPMENT. FAILURE TO DISCONNECT POWER MAY CAUSE INJURY OR DEATH.

Service and maintenance work should be done by a qualified technician only.

Problem	Possible Cause	Corrective Action
None of the feeder lines will operate.	No power supplied to equipment.	Replace burned fuses or reset circuit breaker.
		Make sure voltage required is supplied.
	Time clock or relay defective.	Replace time clock or relay.
	Time clock improperly programmed.	Refer to programming the time clock section and reprogram the time clock.
Feeder line will not operate.	Power unit cord not plugged in sufficiently to make contact.	Check motor cord plug at control unit and control unit plug at outlet for connection.
	Motor cord wires are broken at plug or where cord enters motor.	Check cord for continuity, replace if defective.
	Power units thermal overload tripped.	Push motor overload reset button to reset.
	Control unit switch defective or out of adjustment.	Adjust switch according to the switch adjustment procedure in the maintenance section.
Motor overloads frequently.	Oil on new auger loads motor excessively when feed is carried for first time.	Polish auger by running 50 lb. (20 kg) increments of feed out to pans.
	Inadequate power reaching motors.	Check line voltage at the motors. Wiring of adequate size is essential to feeder operation.
	Object caught in the auger; motor runs, stalls, then auger spins in reverse.	Check hopper boot, control unit and pan outlets. Remove obstruction.
Auger runs erratically.	Frozen or cracked bearing at boot anchor.	Replace bearing. Slowly ease auger back into tube. Be careful no to damage the bearing when reinserting the auger.
	Insufficient stretch in auger.	Shorten the auger.
	Obstruction in auger.	Remove obstruction.
Auger tube or boot wears out rapidly (Noisy feeder operation)	Auger is bent or kinked	Repair or replace damaged auger.
	End of auger is riding up on anchor weldment.	Auger must not be positioned over weld on anchor. Check for bent or damaged auger.
Oil leaking out of seals on power unit	Gearhead vent plug not installed.	Replace plastic shipping plug with vent plug.
	Defective gear head seal.	Replace seal.
Not enough feed supplied to the feeder pans.	Insufficient time programmed on the time clock.	Add more operating time to feeding period.
	Feeder line control unit switch out of adjustment.	Adjust switch according to the switch Adjustment procedure in the maintenance section.

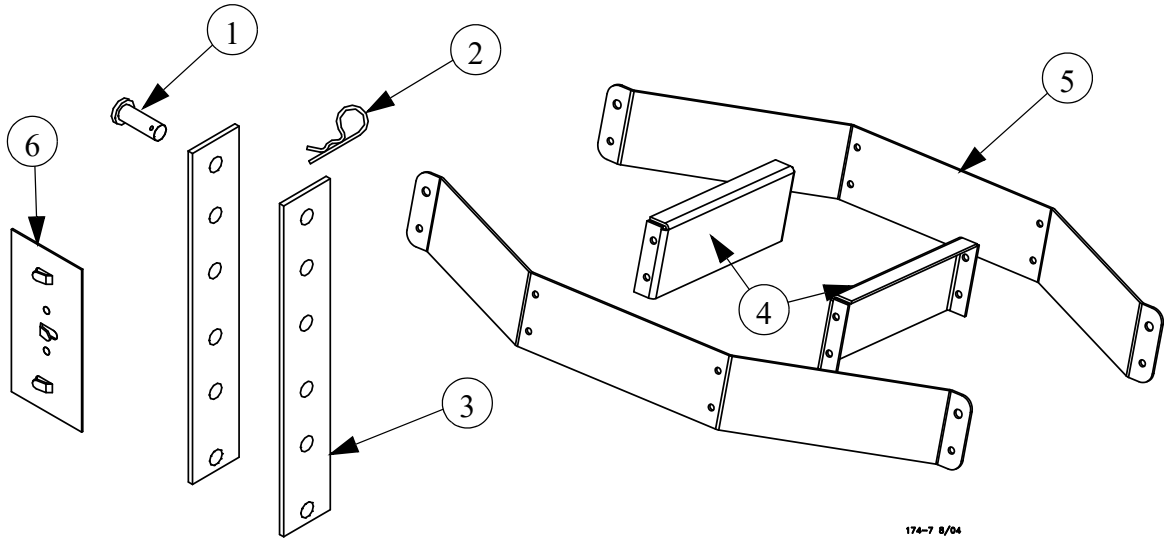
Parts Listing

150# Hopper Components



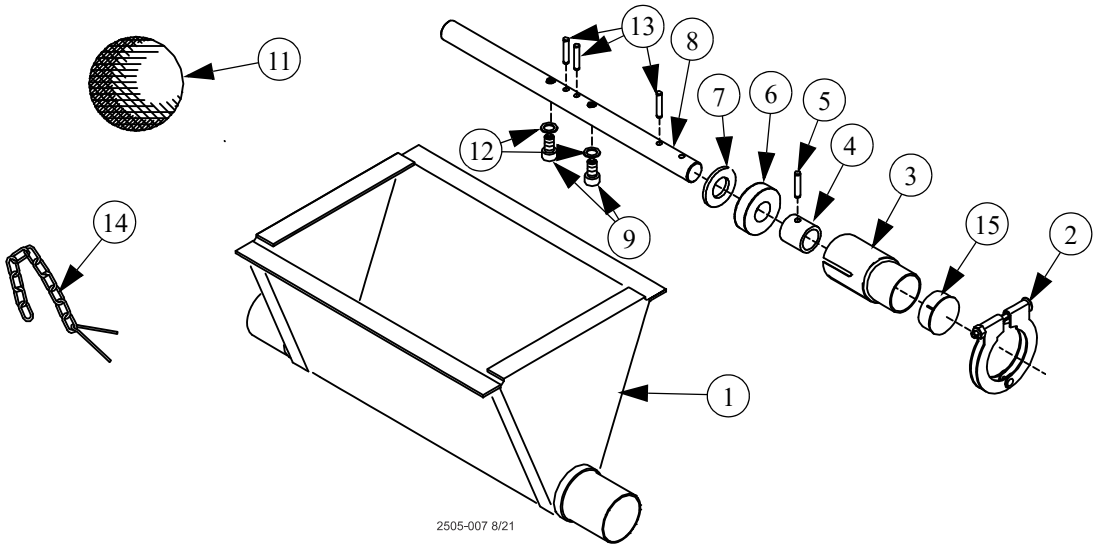
		Without Cover 48926	With Cover 49267
Key	**Description**	**Part Number**	
1	Hopper Half	49028	49028
2	Switch brace	50966	50966
3	Cover	--	48675
4	Cable Assembly	2809-3	2809-3
5	Clevis Pin	2797-1	2797-1
6	Adjustment Bracket	2706	2706
7	Suspension Angle	48679	48679
8	Suspension Brace	48680	48680
9	Twist Lock Collar	49041	49041
10	Hairpin	2664	2664
11	Brace	49029	49029
12	Tube Support Assembly	14367	14367
*13	Chain	2128	2128
***Item must be ordered in either 100 ft or 250 ft quantities, 2128-100 is 100 ft and 2128-250 is 250 ft.**			

Part No. 49358 Hopper Suspension Kit



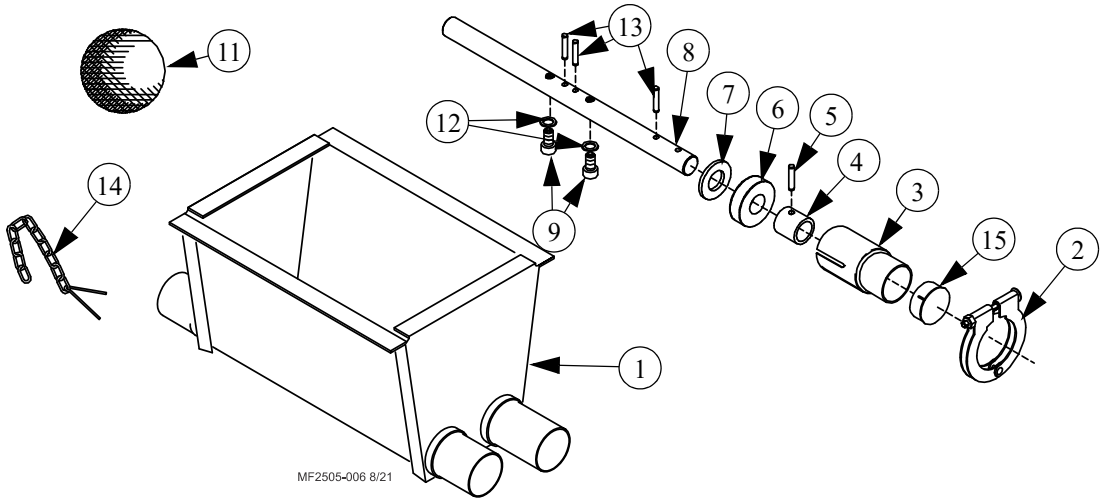
Item	Description	Part No. Single Boot Kit	Part No. Twin Boot Kit
1	Clevis Pin, 5/16" x 1"	2797-1	2797-1
2	Adjustment Bracket	2706	2706
3	Hair Pin	2664	2664
4	Suspension Brace	48680	48680
5	Suspension Angle	48679	48679
6	Cable Guide	34573	34573
***This kit is used for steel hopper suspension.**			

Single Boot Components Part No. 6821



Item	Description	Part No.	Item	Description	Part No.
1	Boot Weldment	4224	9*	5/16-18 x 7/8 Low head cap screw	47867
2	Tube Clamp	24062	10	Anchor and Bearing Ass'y	39372
3	Outlet Tube	4556	11	Cannonball	3531
4*	Sleeve	5648	12*	Flat Washer	48609
5*	3/16 x 1" Pin	2960-1	13*	Roll Pins	2960-1
6*	Bearing	2689	14	Latch Pin Ass'y	2683
7*	Washer	2955-14	15*	Cap	29373
8*	Anchor	38540	--	Danger Decal	2527-9
*Included in Anchor and Bearing Assembly (Item 10)					

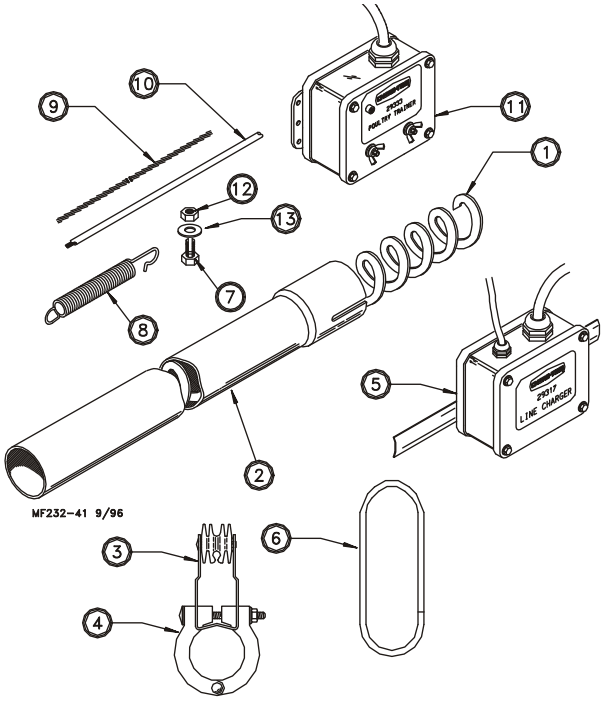
Twin Boot Components Part No. 57310



Item	Description	Part No.	Item	Description	Part No.
1	Boot Weldment	57155	9*	5/16-18 x 7/8 Low head cap screw	47867
2	Tube Clamp	24062	10	Anchor and Bearing Ass'y	39372
3	Outlet Tube	4556	11	Cannonball	3531
4*	Sleeve	5648	12*	Flat Washer	48609
5*	3/16 x 1" Pin	2960-1	13*	Roll Pins	2960-1
6*	Bearing	2689	14	Latch Pin Ass'y	2683
7*	Washer	2955-14	15*	Cap	29373
8*	Anchor	38540	--	Danger Decal	2527-9
*Included in Anchor and Bearing Assembly (Item 10)					

Feeder Line Components

Item	Description	Part No.
1*	Auger	6820-0
2	ATF 10 ft. 2 hole tube	53628-1
	* ATF 10ft. 3 hole tube	53628-4
	* ATF 20ft. 3 hole tube	53628-2
	* ATF 20ft. 3 hole tube	53628-3
	** ATF 10ft. 5 hole tube	53628-5
	** ATF 10ft. 5 hole tube	53628-6
3	Anti-Roost Bracket	29516
4	Clamp	29520
5	Line Charger	29317
6	Hanger	4207
7	3/32" Cable Clamp	1826
8	Spring	7551
9	3/32" Cable	4973
10	Charger Wire (165 ft.)	28994-165
	Charger Wire (330 ft.)	28994-330
11	Poultry Trainer	29333
12	3/8" Hex Nut	1549
13	3/8" Flat Washer	4976



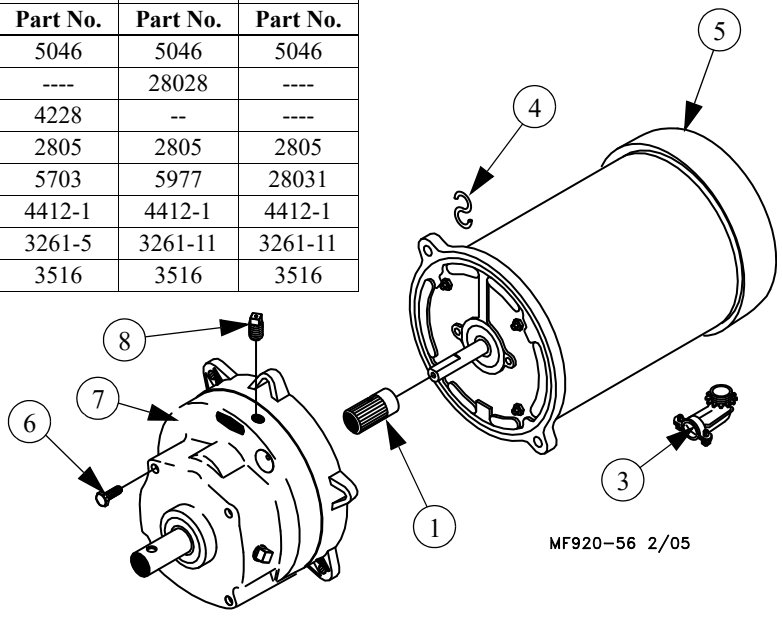
***Round up to the nearest 10'. Auger lengths from 50 to 500 feet. Example: 6820-200 would be a 200' roll of Auger**

* USE together for 3 pans per 20 ft.

** USE together for 5 pans per 20 ft.

Power Unit Components

		3259-34	3259-39	3259-98	3259-100
Item	Description	Part No.	Part No.	Part No.	Part No.
1	Pinion Assembly	5046	5046	5046	5046
2	Cord Assembly	----	----	28028	----
3	Connector (90 Degree)	4228	4228	--	----
4	"S" Hook	2805	2805	2805	2805
5	Motor	4229	5703	5977	28031
6	5/16-18 x 5/8 Hex Hd Screw	4412-1	4412-1	4412-1	4412-1
7	Gearhead	3261-5	3261-5	3261-11	3261-11
8	Pipe Plug	3516	3516	3516	3516



Power Unit Assembly Part Numbers

Part Number	HP	RPM	Phase	Hz	Voltage	Usages
3259-34	1/3 HP	348 RPM	Single Phase	60 Hz	230	Use with both Control Units
3259-39	1/2 HP	348 RPM	Single Phase	60 Hz	230	Use with both Control Units
3259-98	1/2 HP	348 RPM	Single Phase	50 Hz	230	Use with both Control Units
3259-100	1/2 HP	348 RPM	Three Phase	50 Hz	220/380	Use with both Control Units

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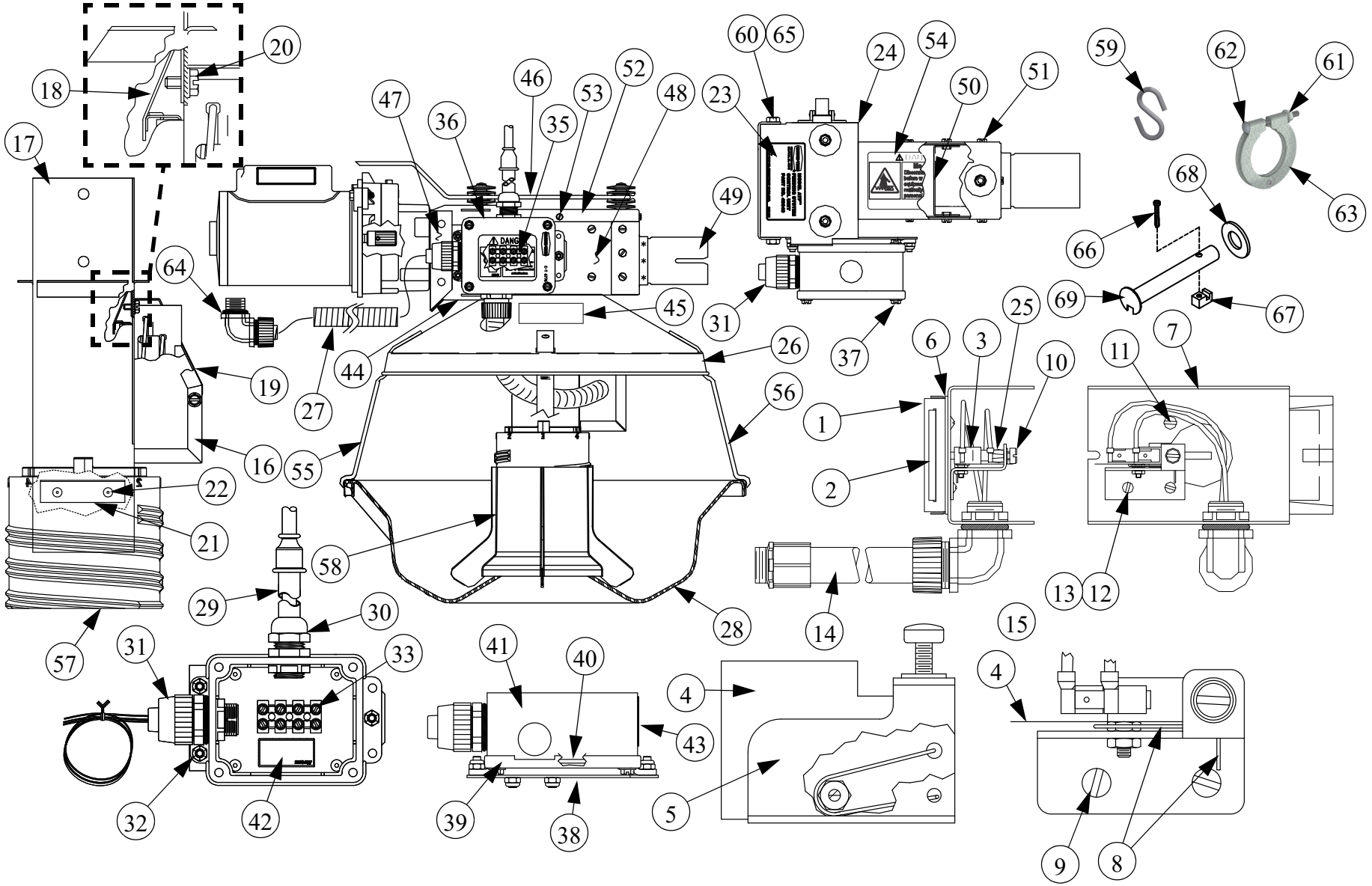
MODEL ATF™ End Control (Mech. Switch): 50355 & 50355G

MODEL ATF™ PLUS End Control (Mech. Switch): 50358 & 50358G

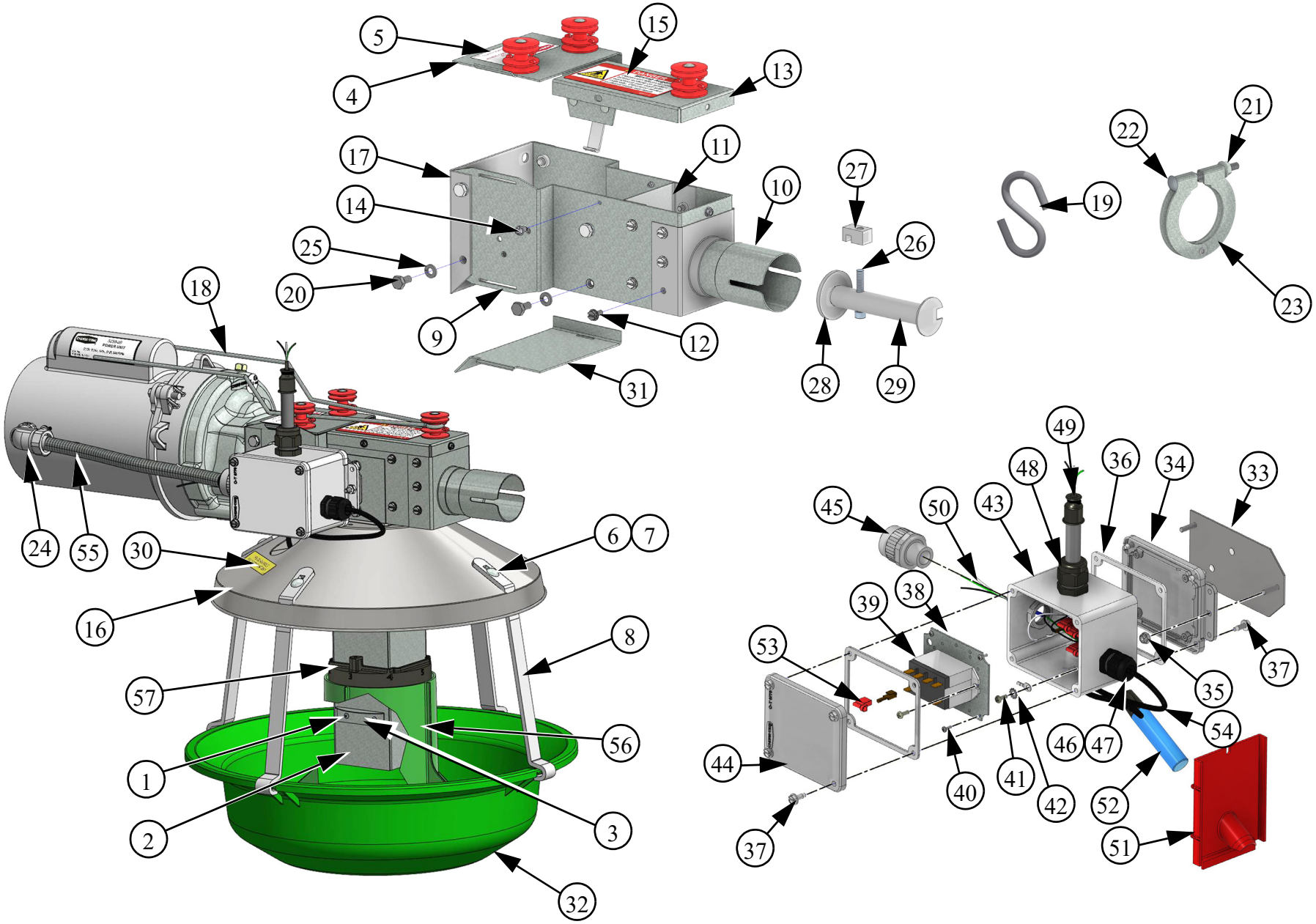


Item	Description	ATF Mechanical End Control 50355	ATF Mechanical End Control (Green) 50355G	ATF Plus Mechanical End Control 50358	ATF Plus Mechanical End Control (Green) 50358G
		Part No.			
1	Diaphragm Assembly	4889	4889	4889	4889
2	Paddle	4890	4890	4890	4890
3	Snap Action Switch	46324	46324	46324	46324
4	Barrier	6936	6936	6936	6936
5	Switch Bracket	51516	51516	51516	51516
6	Spacer Plate	4921	4921	4921	4921
7	Housing	6048	6048	6048	6048
8	Torsion Spring	5820	5820	5820	5820
9	6-32 x 5/16 PnHd Screw	4402-3	4402-3	4402-3	4402-3
10	Binder Head Mach. Screw	4303-5	4303-5	4303-5	4303-5
11	10-24 x 1/4 Pn Hd Screw	4417-2	4417-2	4417-2	4417-2
12	4-40 x 3/4 Pn Hd Screw	4143-2	4143-2	4143-2	4143-2
13	4-40 Nut	3511	3511	3511	3511
14	Conduit Assembly	27866	27866	27866	27866
15	90° Conduit Conn.	24726	24726	24726	24726
16	Cover	6053	6053	6053	6053
17	Control Tube Weldment	4180	4180	49145	49145
18	Guard Assembly	4892	4892	4892	4892
19	Cover Decal	2526-69	2526-69	2526-69	2526-69
20	#8 Sheet Metal Screw	13019	13019	13019	13019
21	Feed Cone Support	50297	50297	50297	50297
22	Pop Rivet	2946	2946	2946	2946
23	ATF Control Decal	2529-866	2529-866	2529-862	2529-862
24	Insulator Cover Assembly	49043	49043	49043	49043
25	Blind Rivet Nut	51515	51515	51515	51515
26	Pan Shield	4191	4191	49138	49138
27	Flex Conduit	26982-1	26982-1	26982-1	26982-1
28	Red Feeder Pan	29000	--	29000	--
	Green Feeder pan	--	29000G	--	29000G
29**	Cord Assembly	4999-109	4999-109	4999-109	4999-109
30**	1/2" Water Tight Conn.	24685	24685	24685	24685
31**	1/2" Conduit Connector	26980	26980	26980	26980
32**	#10-24 Lock Nut	34019	34019	34019	34019
33**	Terminal Block	34925-4	34925-4	34925-4	34925-4
34**	1/2" Conduit Lock Nut	43662	43662	43662	43662

*These components may be ordered as an assembly Part No. 49045
**These components may be ordered as an assembly Part No. 49085
[1]These components included in Pan Support Package 25813 (ATF) or 49154 (ATF Plus)
[2]Items included in Cone Kit 50359
[3]Items included in 49086 Hardware Package

Item	Description	ATF Mechanical End Control 50355	ATF Mechanical End Control (Green) 50355G	ATF Plus Mechanical End Control 50358	ATF Plus Mechanical End Control (Green) 50358G
		Part No.			
35**	Danger Decal	2527-81FE	2527-81FE	2527-81FE	2527-81FE
36**	Junction Box Cover	6776	6776	6776	6776
37**	#10 Twin Helix Screw	28075	28075	28075	28075
38**	Junction Box Mt. Brkt.	43815	43815	43815	43815
39**	Junction Box Cover	53567	53567	53567	53567
40**	Junction Box Gasket	6777	6777	6777	6777
41**	Junction Box	36334-5	36334-5	36334-5	36334-5
42**	Mfg. Date Decal	2526-377	2526-377	2526-377	2526-377
43**	Caution Decal	2527-62FE	2527-62FE	2527-62FE	2527-62FE
44	Bottom Cover	49044	49044	49044	49044
45	Decal	2526-24	2526-24	2526-24	2526-24
46	Anti-Roost Guard	2798	2798	2798	2798
47	Anchor Plate	4188	4188	4188	4188
48*	ATF Control Body	49042	49042	49042	49042
49*	Stub Tube Weldment	27900	27900	27900	27900
50*	Tube Support	27891	27891	27891	27891
51*	10-24 x .38 Screw	4416-7	4416-7	4416-7	4416-7
52*	Body Cover	27942	27942	27942	27942
53*	#8 x .375 Screw	13019	13019	13019	13019
54*	Danger Decal	2527-9	2527-9	2527-9	2527-9
55[1]	Swing Down Pan Support	24274A	24274A	49171A	49171A
56[1]	Pan Support	4199A	4199A	--	--
57[2]	Adjustable Feed Cone	49801	49801	49801	49801
58[2]	Adjustable Feed Cone	49802	49802	49802	49802
59[3]	"S" Hook	2805	2805	2805	2805
60[3]	1/4-20 x 1/2" HXHD Screw	1487	1487	1487	1487
61[3]	1/4-20 HX Fl. Nut	24208	24208	24208	24208
62[3]	1/4-20 x 2.75 SQ. Nk. Bolt	7550-8	7550-8	7550-8	7550-8
63[3]	2" Clamp Assembly	28650	28650	28650	28650
64[3]	90° 1/2" Conduit Conn.	23810	23810	23810	23810
65[3]	Lock Washer	1667	1667	1667	1667
66[3]	255-20 x 1.50 SKTH Screw	5083-8	5083-8	5083-8	5083-8
67[3]	Drive Block	4642	4642	4642	4642
68[3]	Flat Washer	1484	1484	1484	1484
69[3]	Drive Tube Weldment	47584	47584	47584	47584

MODEL ATF™ PLUS End Control (With Proximity Sensor): 56960 & 56960G



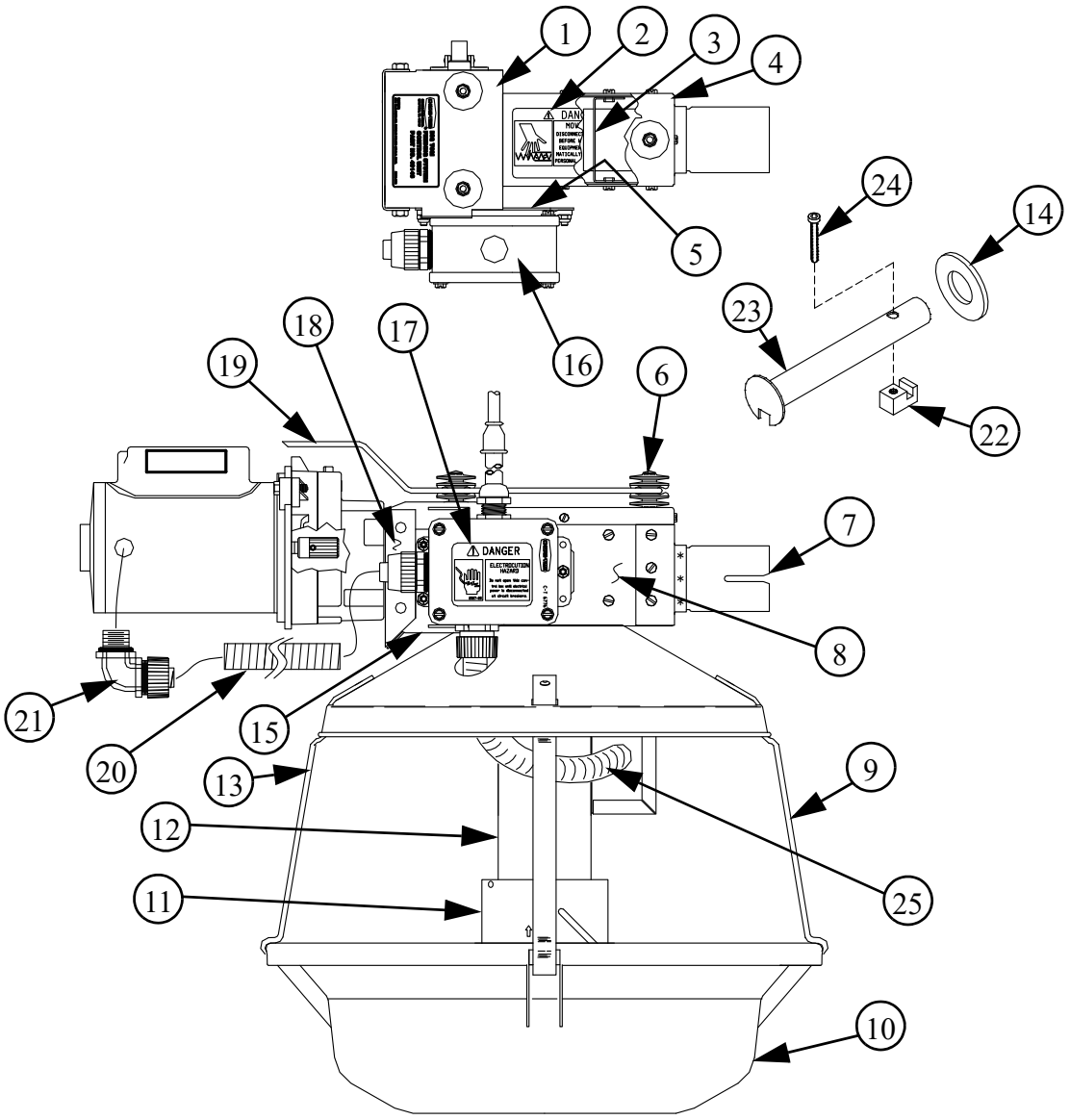
Item	Description	ATF Plus w/Sensor 56960	ATF Plus w/Sensor (Green) 56960G
1	Pop Rivet	2946	2946
2	Control Drop Tube	49145	49145
3	ATF Feed Cone	49802	49802
4	Safety Cover	49043	49043
5	ATF Plus End Line Control Decal	2529-1211	2529-1211
6**	1/4-20 HX Lock Nut	22692	22692
7**	1-4-20 x .625 Carriage Bolt	1269	1269
8**	Pan Support	49171A	49171A
*9	Control Body	49042	49042
*10	Stub Tube Weldment	27900	27900
*11	Tube Support	27891	27891
*12	10-24 x .38 HX Sltd. Screw	4416-7	4416-7
*13	Body Cover	27942	27942
*14[2]	#8 x .375 HXWH Screw	13019	13019
15	Danger Decal	2527-9	2527-9
16	Pan Shield	49138	49138
17	Anchor Plate	4188	4188
18	Anti-Roost Guard	2798	2798
19[1]	"S" Hook	2805	2805
20[1]	1/4-20 x 1/2" HXHD Screw	1487	1487
21[1]	1/4-20 HX Fl. Nut	24208	24208
22[1]	1/4-20 x 2.75 SQ. Nk. Bolt	7550-8	7550-8
23[1]	2" Clamp Assembly	28650	28650
24[1]	90° 1/2" Conduit Conn.	23810	23810
25[1]	Lock Washer	1667	1667
26[1]	255-20 x 1.50 SKTH Screw	5083-8	5083-8
27[1]	Drive Block	4642	4642
28[1]	Flat Washer	1484	1484

*These components may be ordered as an assembly Part No. 49045
** These included in 49154 Pan Support Package
[1]Included in ATF Control Hardware Package 49086
[2]Included in 57014 Proximity Control Kit
[3]Can be ordered as kit number 50359 (25 assemblies per Kit)

Continued.....

Item	Description	ATF Plus w/Sensor 56960	ATF Plus w/Sensor (Green) 56960G
29[1]	Drive Tube Weldment	47584	47584
30	Pan Shield Decal	2526-24	2526-24
31	Bottom Cover	49044	49044
32	Red Feeder Pan	29000	--
	Green Feeder Pan	--	29000G
33[2]	Switch Mount Plate	43815	43815
34[2]	Terminal Box Cover	6956	6956
35[2]	10-24 Ny. Ins. Lock Nut	34019	34019
36[2]	Switch Box Gasket	6777	6777
37[2]	10 x .5 HXWH Screw	28075	28075
38[2]	Relay Mount for Control	52316-2	52316-2
39[2]	240 V Relay	28904	28904
40[2]	4-24x.375 Phil. Screw	35493	35493
41[2]	6-32x3/8 PH Phil. Screw	34660	34660
42[2]	#10 Lock Washer	305	305
43[2]	General Purpose Box	42627-3	42627-3
44[2]	Switch Box Cover	6776	6776
45[2]	1/2-14 Liquid Tight	26980	26980
46[2]	1/2 NPT Ny. Cordgrip	23779	23779
47[2]	.5x1.058x.265 Ny. Cordgrip	43662	43662
48[2]	1/2 NPT .230-.546 Ny. Cordgrip	24685	24685
49[2]	End Control Cord Assembly	4999-116	4999-116
50[2]	Sensor Wire	55444W	55444W
51[2]	ATF Prox. Sensor Holder	56961	56961
52[2]	Dol 26 Sensor	56275	56275
53[2]	90° Insulated Terminal	56281	56281
54[2]	.25 x 10 Vinyl Tubing	14454-10	14454-10
55	Flex Conduit	26982-1	26982-1
56[3]	ATF Adjustment Cone	49801	49801
57[3]	ATF Adjustment Cone	49802	49802

MODEL ATF™ PLUS End Control (Mech. Switch): 49146/49146G



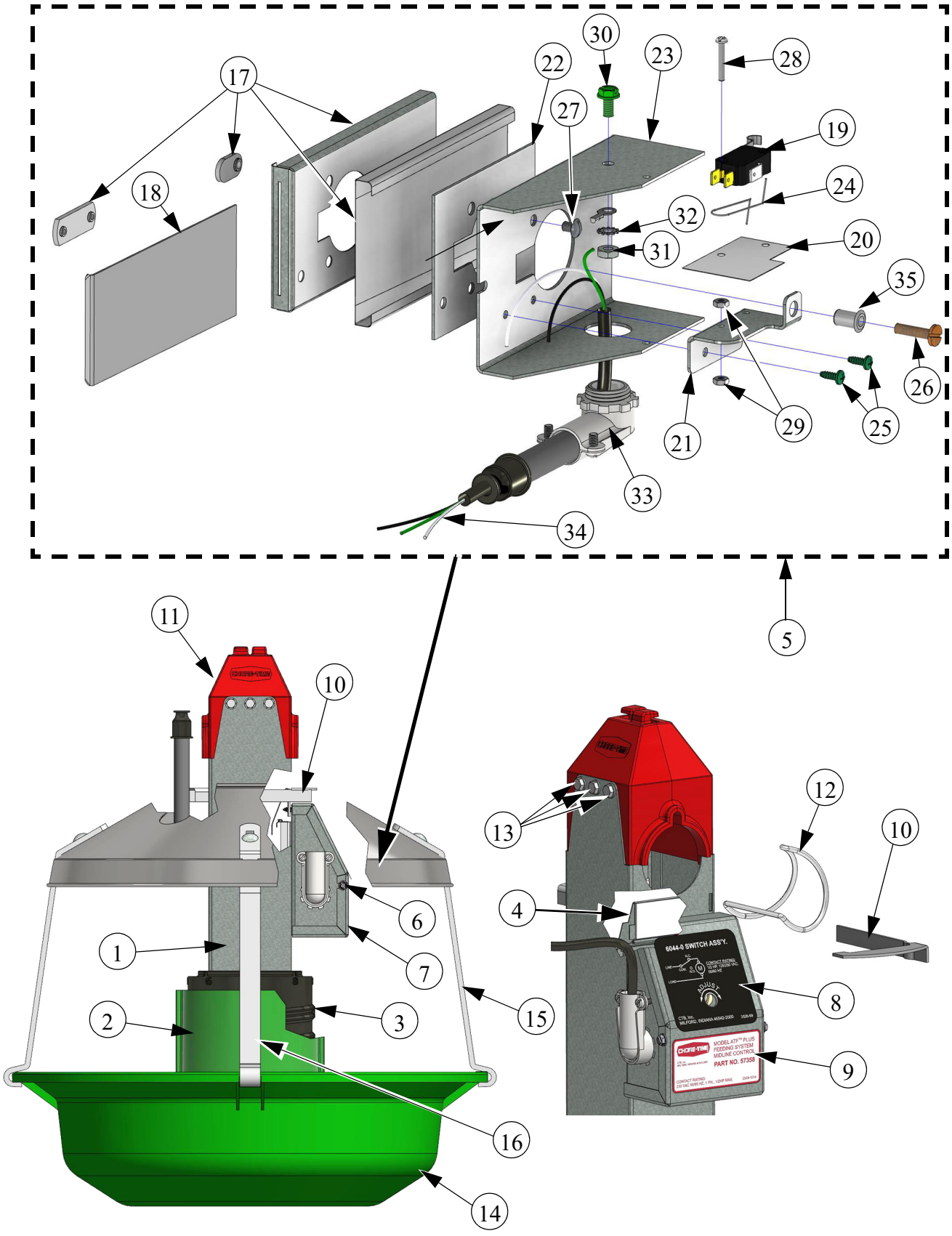
Item	Description	49146 ATF™ PLUS Mech. Switch Control w/Red Pan	49146G ATF™ PLUS Mech. Switch Control w/Green Pan
		Part No.	
1	Cover, Insulator Assembly	49043	49043
**2	Danger Decal	2527-9	2527-9
**3	Tube Support	27891	27891
**4	Body Cover	27942	27942
5	Mount Plate	43815	43815
**6	Insulator	2976	2976
**7	Stub Tube Weldment	27900	27900
**8	Control Body	49042	49042
9	Swing Down Pan Support	49172	49172
10	Turkey Feeder Pan	29000	--
	Turkey Feeder Pan (Green)	--	29000G
11	Feed Level Tube Assembly	4341	4341
	Feed Level Tube Assembly	4194	4194
*12	Drop Tube Assembly	49147	49147
13	Pan Support	49171	49171
14	Washer	1484	1484
15	Bottom Cover	49044	49044
16	Junction Box	36334-5	36334-5
17	Danger Decal	2527-35	2527-35
18	Anchor Plate	4188	4188
19	Anti-Roost Guard	2798	2798
20	1/2" Flex Conduit	26982-1	26982-1
21	90°, 1/2" Connector	23810	23810
22	Drive Block	4642	4642
23	Tube Weldment	47584	47584
24	SKTH CP 255-20x1.50 Screw	5083-8	5083-8
25	Conduit Assembly	27866	27866

***See "Drop Tube Assembly: Part No. 49147" on page 66 for assembly parts.**

****These components may be ordered as an assembly Part No. 49045.**

MODEL ATF™ Mid-Line Control (Mech. Switch): 57359

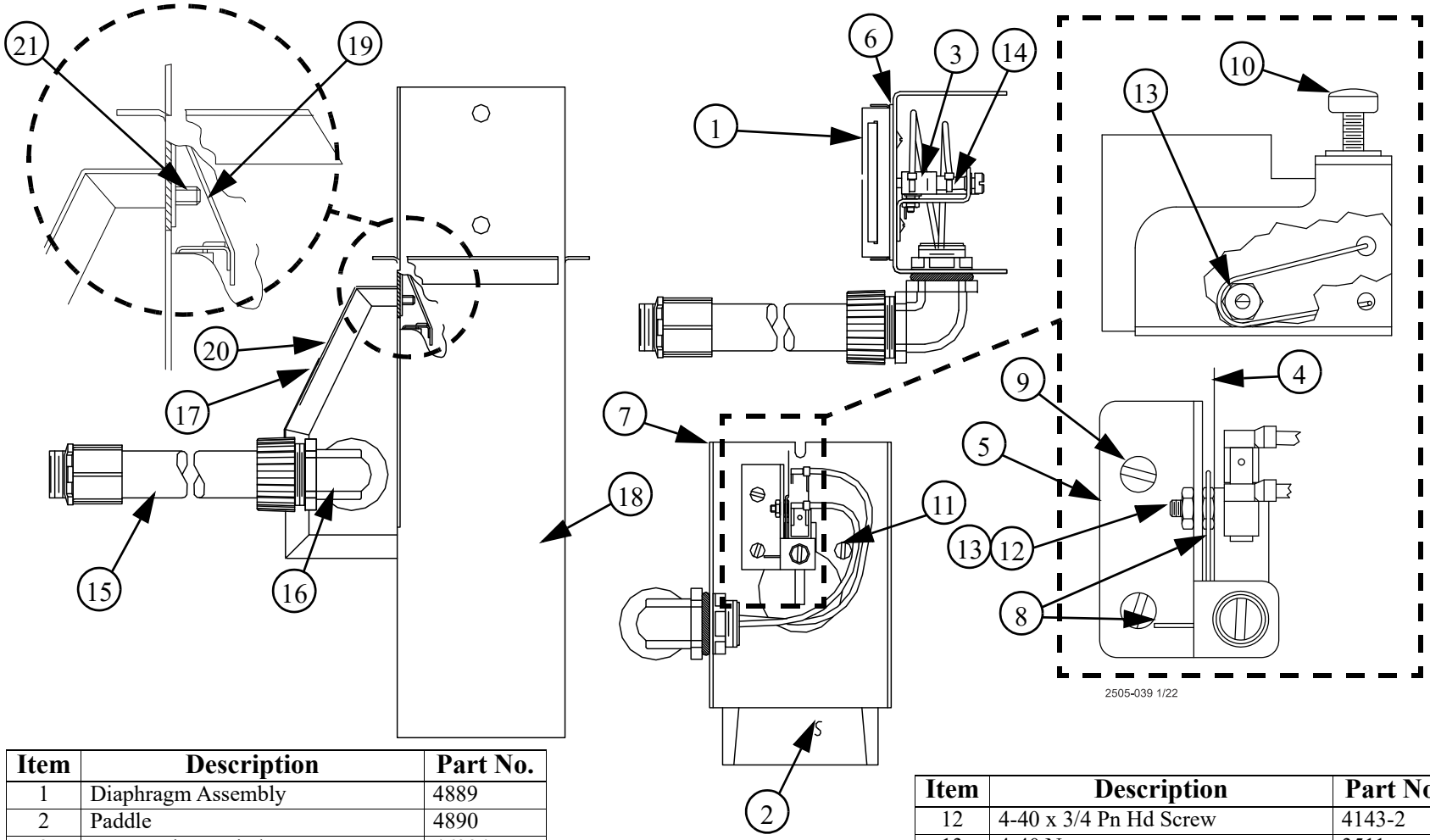
MODEL ATF™ PLUS Mid-Line Control (Mech. Switch): 57358



		57359 ATF™ Mech. Switch Mid-Line Control	**57358** ATF™ PLUS Mech. Switch Mid-Line Control
Item	**Description**	**Part No.**	
1	ATF Plus Control Drop Tube Wldmt.	--	57220
	ATF Control Drop Tube Weldment	57360	--
2***	ATF Feed Level Cone	49802	49802
3***	ATF Feed Adjustment Cone	49801	49801
4	Guard Assembly	6771	6771
5	Switch Assembly	6044-4	6044-4
6	8-.375 HXWH Screw	13019	13019
7	Switch Cover	6053	6053
8	Cover Decal	2526-69	2526-69
9	ATF Plus Midline Switch Decal	--	2529-1214
	ATF Midline Switch Decal	2529-1215	--
10	Turkey Shield Support	44733U	44733U
11	ATF Plus Drop Top	56560	56560
12	Spacer Clip	57092	57092
13	10-3/8 HWHD Screw	5776	5776
*14	Feeder Pan	29000	29000
*15	Pan Support	4199	49171
*16	Pan Support (Swing Down)	24274	49172
17**	Diaphragm Assembly	4889	4889
18**	Paddle	4890	4890
19**	Snap Action Switch	46324	46324
20**	Barrier	6936	6936
21**	Switch Bracket	51516	51516
22**	Spacer Plate	4921	4921
23**	Housing	6048	6048
24**	Torsion Spring	5820	5820
25**	6-32 x 5/16 Screw	4402-3	4402-3
26**	Nylon Screw	4303-5	4303-5
27**	10-24 x 1/4 PNHD Screw	4417-2	4417-2
28**	4-40 x 3/4 PNHD Screw	4143-2	4143-2
29**	4-40 Nut	3511	3511
30**	10-32 x.38 HXWH Screw	34662	34662
31**	10-32 HX Nut	4297	4297
32**	#10 Lock Washer	305	305
33**	90° Connector	4228	4228
34**	Cord Assembly	4999-111	4999-111
35**	10-32 Blind Rivet Nut	51515	51515

*These items are not included with the control assembly and must be ordered separately.
These Items included in 6044-4 **(Item 4) Switch Assembly
***Available as a Cone Assembly in a 24 pack as part number 50359

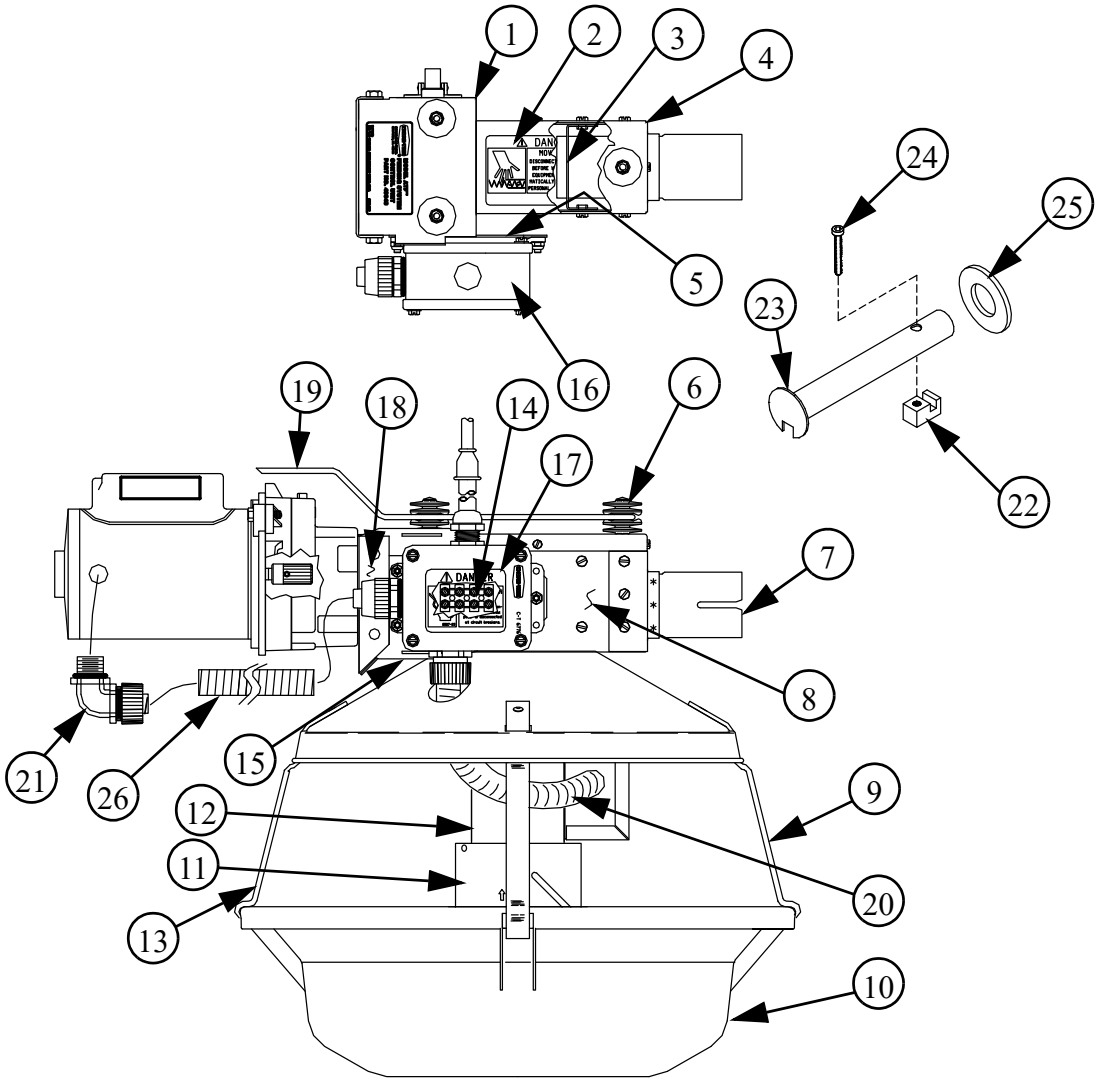
Drop Tube Assembly: Part No. 49147



Item	Description	Part No.
1	Diaphragm Assembly	4889
2	Paddle	4890
3	Snap Action Switch	46324
4	Barrier	6936
5	Switch Bracket	51516
6	Spacer Plate	4921
7	Housing	6048
8	Torsion Spring	5820
9	6-32 x 5/16 PnHd Screw	4402-3
10	Binder Head Machine Screw	4303-5
11	10-24 x 1/4 Pn Hd Screw	4417-2

Item	Description	Part No.
12	4-40 x 3/4 Pn Hd Screw	4143-2
13	4-40 Nut	3511
14	10-32 Blind Rivet Nut	51515
15	Conduit Assembly (Not Shown)	27866
16	90° Conduit Connector	24726
17	Cover	6053
18	Control Drop Tube Weldment	49145
19	Guard Assembly	4892
20	Cover Decal	2526-69
21	#8 Sheet Metal Screw	13019

MODEL ATF™ Control Unit Components Part No. 49040/49040G



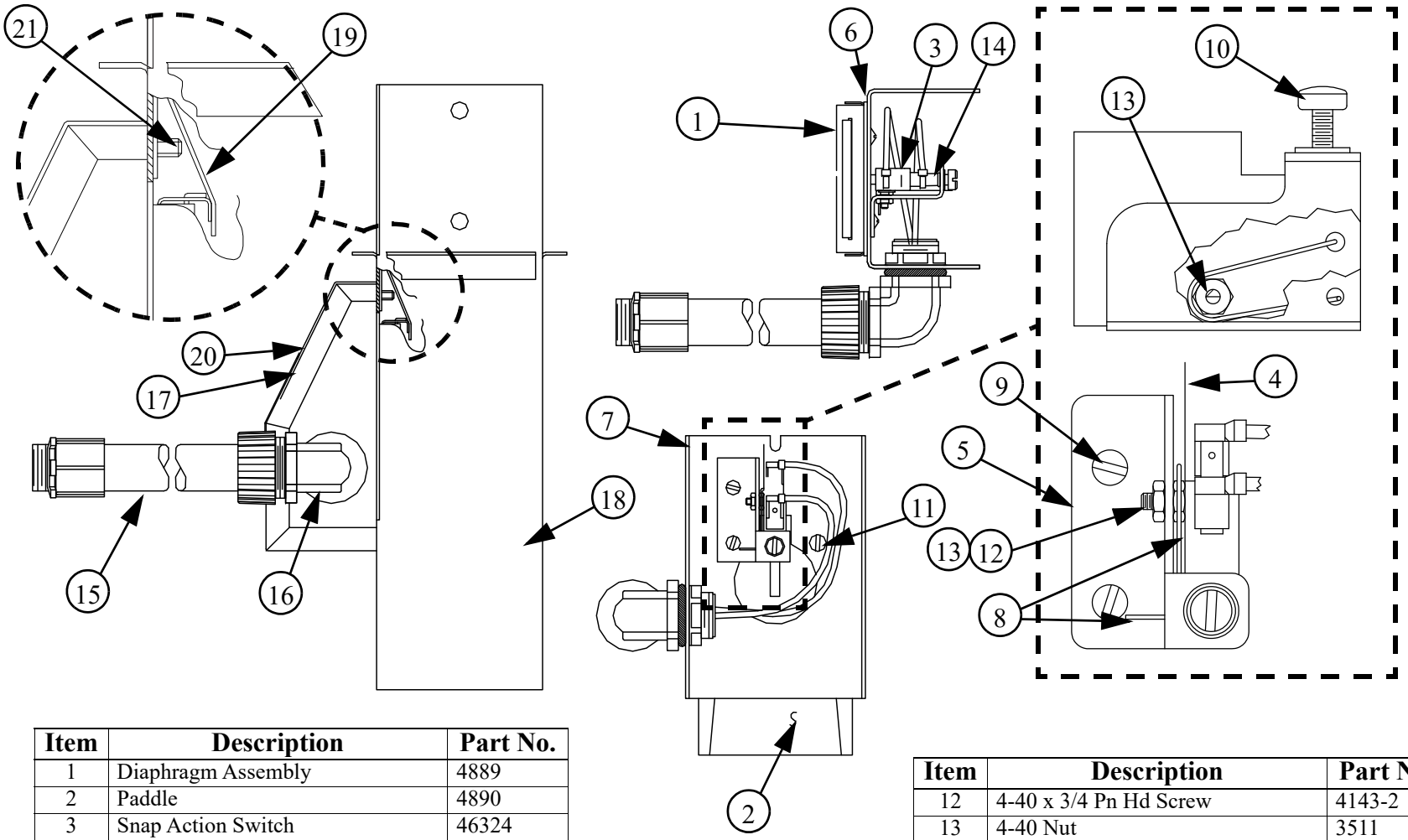
Item	Description	49040 ATF Control w/ Red Pan Part No.	49040G ATF Control w/ Green Pan Part No.
1	Cover, Insulator Assembly	49043	49043
**2	Danger Decal	2527-9	2527-9
**3	Tube Support	27891	27891
**4	Body Cover	27942	27942
5	Mount Plate	43815	43815
**6	Insulator	2976	2976
**7	Stub Tube Weldment	27900	27900
**8	Control Body	49042	49042
9	Swing Down Pan Support	24274	24274
10	ATF Red Feeder Pan	29000	--
	ATF Green Feeder Pan	--	29000G
11	Feed Level Tube Assembly	4341	4341
	Feed Level Tube Assembly	4194	4194

*See "Drop Tube Assembly Part No. 28072" on page 68

**These components may be ordered as an assembly Part No. 49045

Item	Description	49040 ATF Control w/ Red Pan Part No.	49040G ATF Control w/ Green Pan Part No.
12*	Drop Tube Assembly	28072	28072
13	Pan Support	4199	4199
14	Terminal Strip	34925-4	34925-4
15	Bottom Cover	49044	49044
16	Junction Box	36334-5	36334-5
17	Danger Decal	2527-35	2527-35
18	Anchor Plate	4188	4188
19	Anti-Roost Guard	2798	2798
20	Conduit Assembly	27866	27866
21	90°, 1/2" Connector	23810	23810
22	Drive Block	4642	4642
23	Tube Weldment	47584	47584
24	SKTH 20x1.50 Screw	5083-8	5083-8
25	Washer	1484	1484
26	Conduit Assembly	26982-1	26982-1

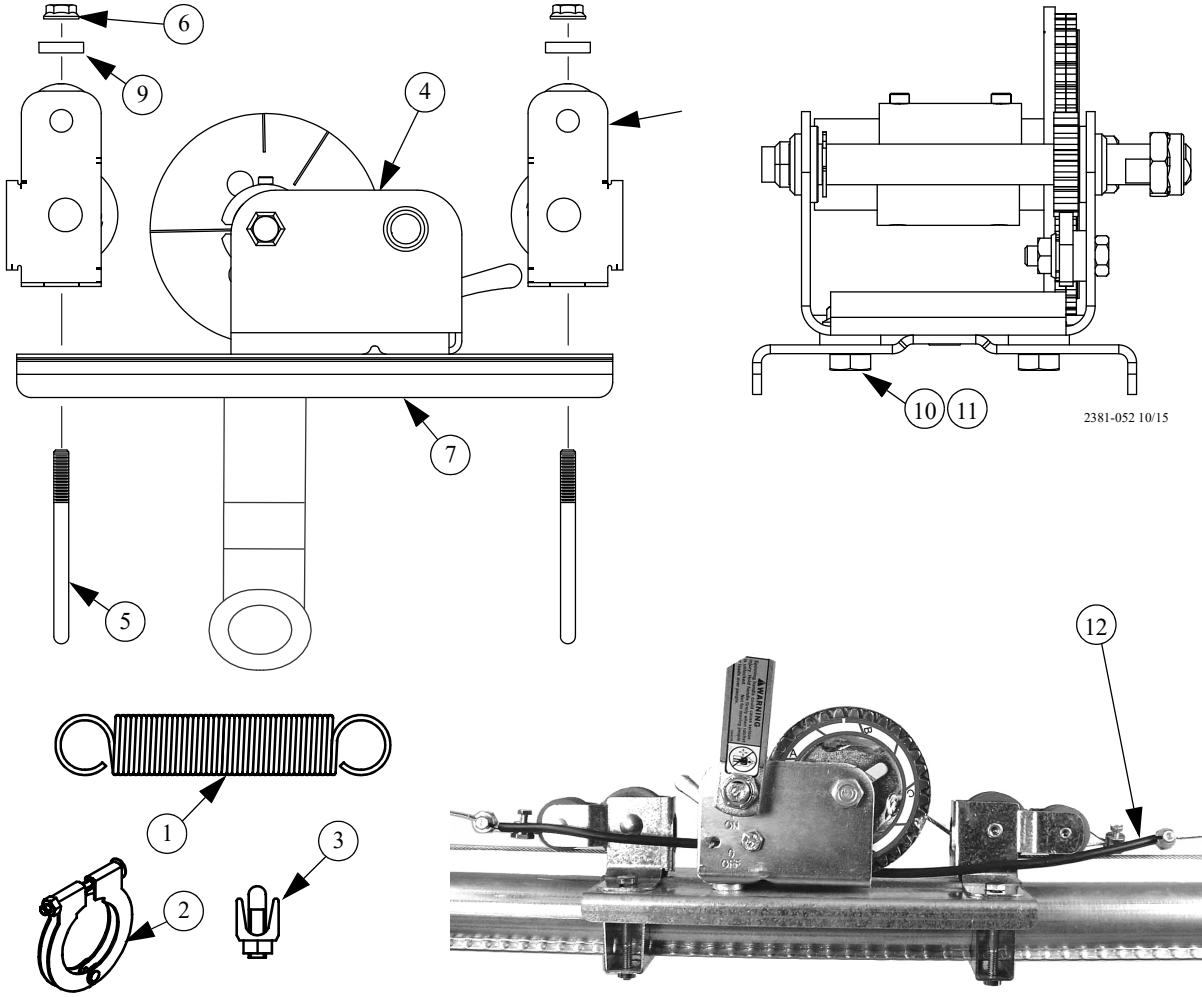
Drop Tube Assembly Part No. 28072



Item	Description	Part No.
1	Diaphragm Assembly	4889
2	Paddle	4890
3	Snap Action Switch	46324
4	Barrier	6936
5	Switch Bracket	51516
6	Spacer Plate	4921
7	Housing	6048
8	Torsion Spring	5820
9	6-32 x 5/16 PnHd Screw	4402-3
10	Binder Head Machine Screw	4303-5
11	10-24 x 1/4 Pn Hd Screw	4417-2

Item	Description	Part No.
12	4-40 x 3/4 Pn Hd Screw	4143-2
13	4-40 Nut	3511
14	10-32 Blind Rivet Nut	51515
15	Conduit Assembly	27866
16	90° Conduit Connector	24726
17	Cover	6053
18	Control Drop Tube Weldment	4180
19	Guard Assembly	4892
20	Cover Decal	2526-69
21	#8 Sheet Metal Screw	13019

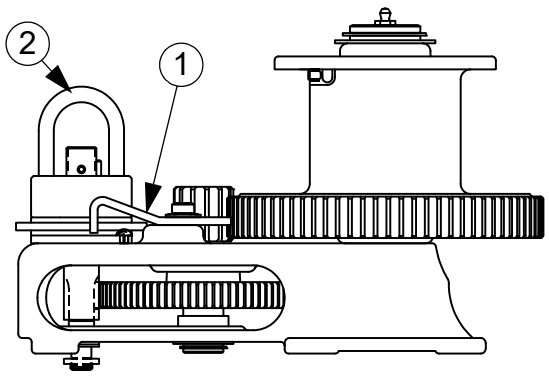
Winch Kit Part No. 53197



Item	Description	Part No.
1	Spring .62 x 11"	24302
2	2" Tube Clamp	29520
3	1/8" Cable Clamp	14898
4	Feed Level Tube Winch	53196
*5	1/4" x 20 U Bolt	7975
*6	1/4" x 20 Flange Nut	46298
*These parts included in a Kit Part No. 29520		

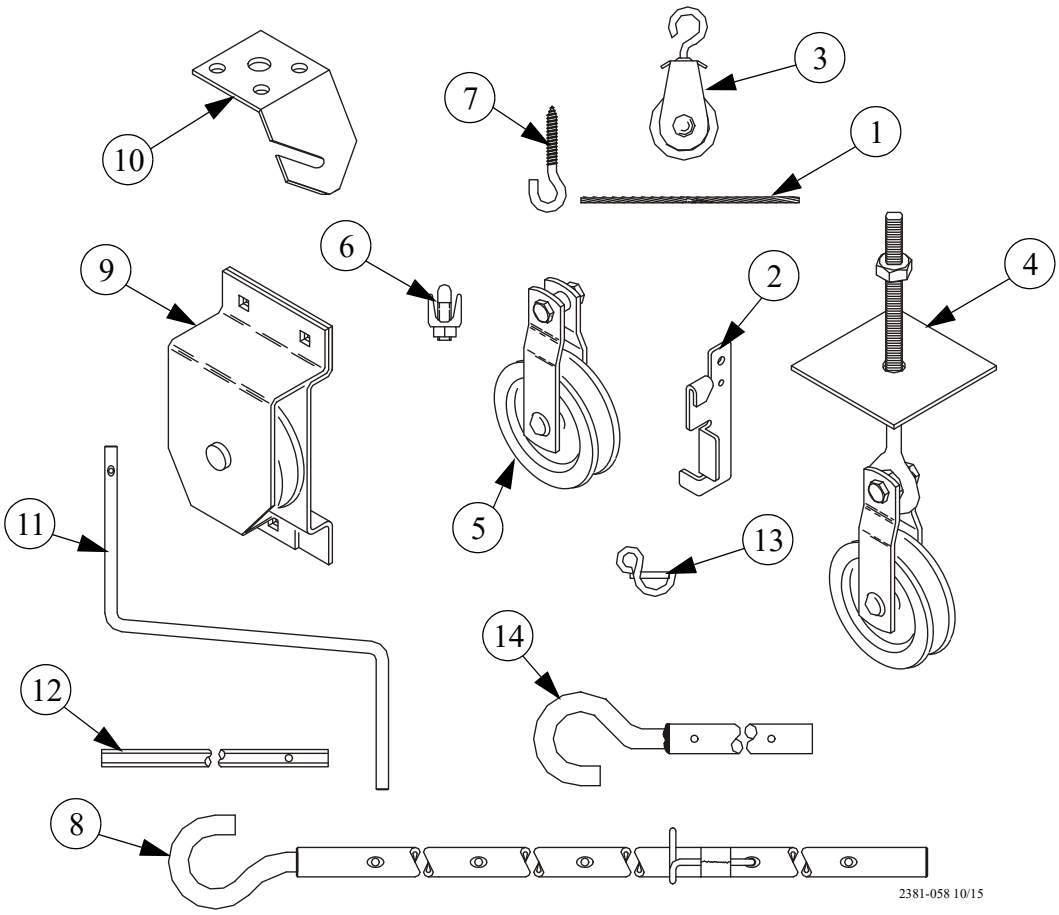
Item	Description	Part No.
7	Winch Base Assembly	48933
8	Insulator Assembly	53202
*9	Washer	5933
10	5/16-18 x .75 Hex Bolt	2046
11	5/16-18 Flange Nut	8490
12	High Voltage Jumper	5359
*These parts included in a Kit Part No. 29520		

Winch (Part No. 47687)



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

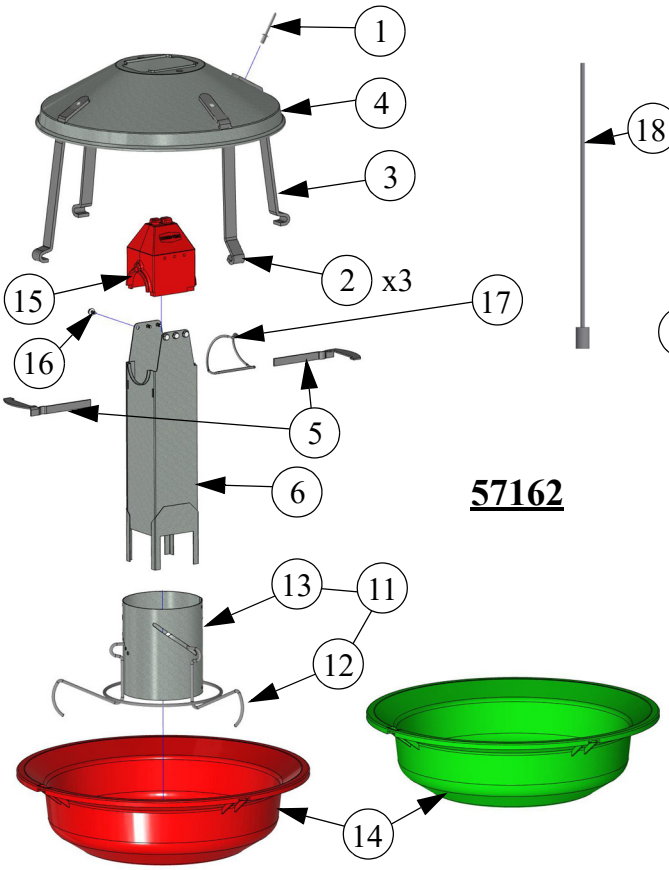
Miscellaneous Suspension Components

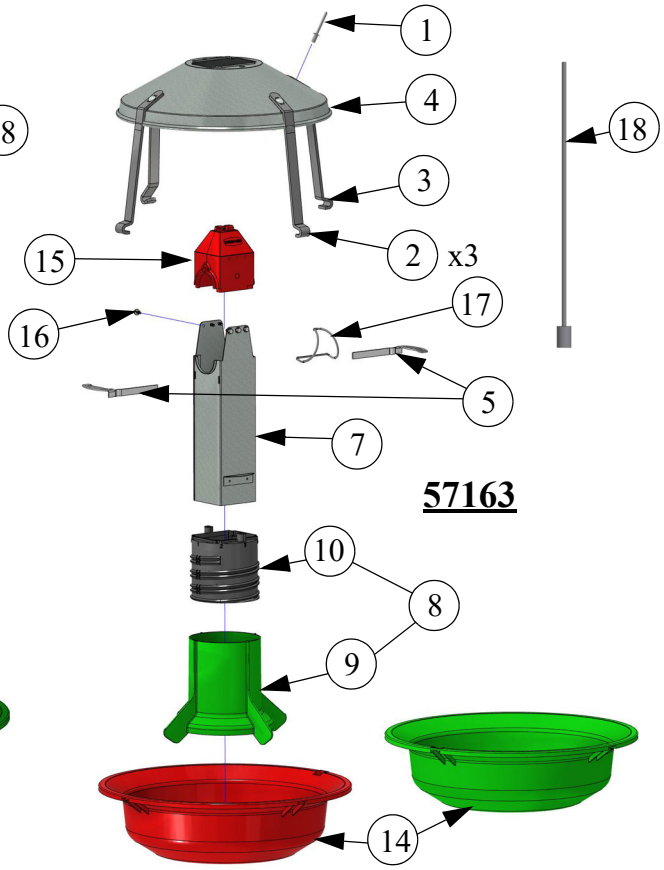


Item	Description	Part No.
1	3/16" Cable	1213
2	Cable Lock	14337
3	Pulley with Swivel	3004
4	Heavy Duty Pulley Assembly	2014
5	Pulley	2500
6	3/16" Cable Clamp	732
7	Screw Hook	2041
8	Extendable Drive Tube	47637
9	Pulley Assembly	28429
10	Ceiling Hook	28550
11	Handle Shank	3148
12	Drill Adapter Shaft	2886
13	Winch Handle Pin	3761
14	Winch Drive Tube (4')	2884-1
	Winch Drive Tube (8')	2884-2
	Winch Drive Tube (2')	2884-4
--	Clevis Pin, 5/16" x 1"	2797-1
--	Adjustable Bracket	2706
--	Hair Pin	2664
--	Full Line Suspension Kit	7948

Item 11 and 13 may be ordered as a kit under Part No. 2885
Item 12 and 13 may be ordered as a kit under Part No. 2886
Item 11, 13 and 8 may be ordered a a kit under Part No. 47683

MODEL ATF™ Feeder Pan Assemblies

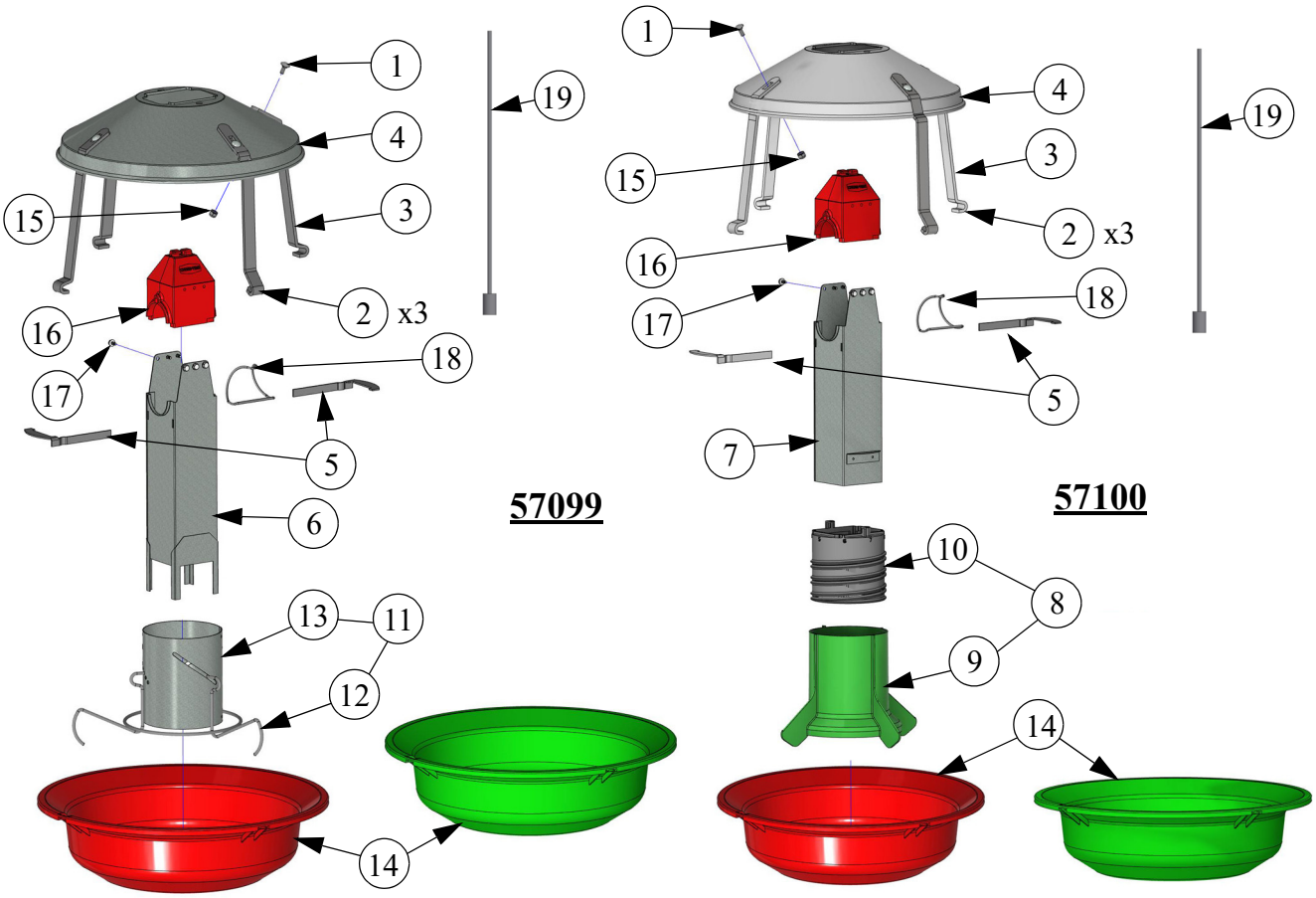




		57162 ATF Feeder w/Metal Cone & Red Pan	57162G ATF Feeder w/ Metal Cone & Green Pan	57163 ATF Feeder w/ Plastic Cone & Red Pan	57163G ATF Feeder w/ Plastic Cone & Green Pan
Item	**Description**	**Part No.**			
1	Drive Rivet	4200	4200	4200	4200
2	Standard Pan Support	4199	4199	4199	4199
3	Swing Down Pan Support	24274	24274	24274	24274
4	Pan Shield	4192	4192	4192	4192
5***	Shield Support	44733U	44733U	44733U	44733U
6*	Drop Tube Weldment	57080	57080	--	--
7**	Drop Tube Wldm't (Plastic Feed Cone)	--	--	57081	57081
8	Plastic Feed Cone	--	--	50359	50359
9	Feed Level Cone	--	--	59802	59802
10	Feed Adjustment Cone	--	--	59801	59801
11	ATF Plus Drop Tube Assembly	--	--	--	--
12	Feed Level Ring	29320	29320	--	--
13	Feed Level Tube	4194	4194	--	--
14	Red Plastic Pan	29000	--	29000	--
	Green Plastic Pan	--	29000G	--	29000G
15	ATF Plus Drop Top	56560	56560	56560	56560
16***	10-3/8 HWHD Screw	5776	5776	5776	5776
17***	Spacer Clip	57092	57092	57092	57092
18[1]	Cable Assembly	53207	53207	53207	53207

*Included in 57164 Drop Tube Assembly
**Included in 57165 Drop Tube Assembly
***Included in 57164 or 57165 Drop Tube Assembly's
[1]Not Included with Feeder. May be ordered individually.

MODEL ATF™ Plus Feeder Pan Assemblies

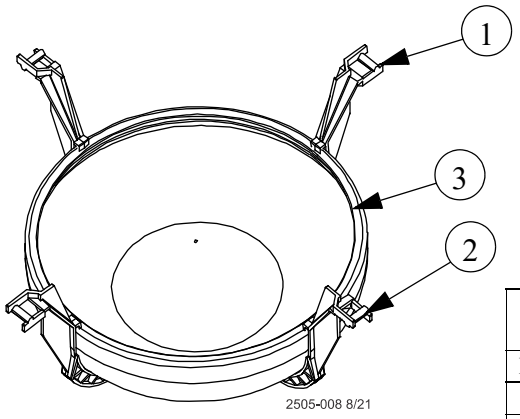


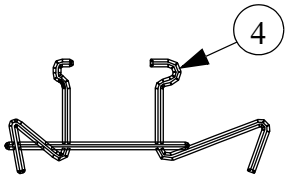
		57099 ATF Plus Feeder w/ Metal Cone & Red Pan	57099G ATF Plus Feeder w/ Metal Cone & Green Pan	57100 ATF Plus Feeder w/ Plastic Cone & Red Pan	57100G ATF Plus Feeder w/Plastic Cone & Green Pan
Item	**Description**	**Part No.**			
1	1/4" Carriage Bolt	22692	22692	22692	22692
2	Standard Pan Support	49171	49171	49171	49171
3	Swing Down Pan Support	49172	49172	49172	49172
4	Pan Shield	49137	49137	49137	49137
5***	Shield Support	44733	44733	44733	44733
6*	Drop Tube Weldment	56820	56820	--	--
7**	Drop Tube Weldment (Plastic Feed Cone)	--	--	56581	56581
8	Plastic Feed Cone Assembly	--	--	50359	50359
9	Plastic Feed Level Cone	--	--	49802	49802
10	Feed Adjustment Cone	--	--	49801	49801
11	Metal ATF Plus Drop Tube Assembly	57113	57113	--	--
12	Feed Level Ring	29320	29320	--	--
13	Feed Level Tube	4194	4194	--	--
14	Red Plastic Pan	29000	--	29000	--
	Green Plastic Pan	--	29000G	--	29000G
15	Lock Nut	1269	1269	1269	1269
16***	ATF Plus Drop Top	56560	56560	56560	56560
17***	10-3/8 HWHD Screw	5776	5776	5776	5776
18***	Spacer Clip	57092	57092	57092	57092
19[1]	Cable Assembly	53207	53207	53207	53207

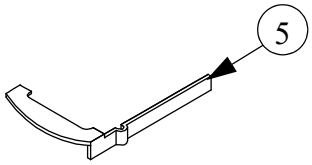
*Included in 57113 Drop Tube Assembly
**Included in 57114 Drop Tube Assembly
***Included in 57164 or 57165 Drop Tube Assembly's
[1]Not Included with Feeder. May be ordered individually.

H2 Plus Pan Adapter Kit

This Product will be used where the day old Turkeys will be started on the Adult Turkey Feeder for the first 5 weeks. After 5 weeks, the Pan Assembly will be removed and the Adult Pan installed.







		41474 Pan Adapter Kit	41475 Pan Adapter Kit
Item	**Description**	**Part Number**	
1	Pan Adapter Top	41100-1	41100-1
2	Pan Adapter	41100-2	41100-2
3	Pan	--	24901

Used with the H2 Plus Adapter		
Item	**Description**	**Part Number**
4	Feed Level ring	42773
5	Turkey Shield Support	44733U

MADE TO WORK.

BUILT TO LAST.®

Revisions to this Manual

Page No.	Description of Change	ECO
Various	Various Changes to Consolidate some Manuals	35840

Contact your nearby Chore-Time distributor or representative for additional parts and information.

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