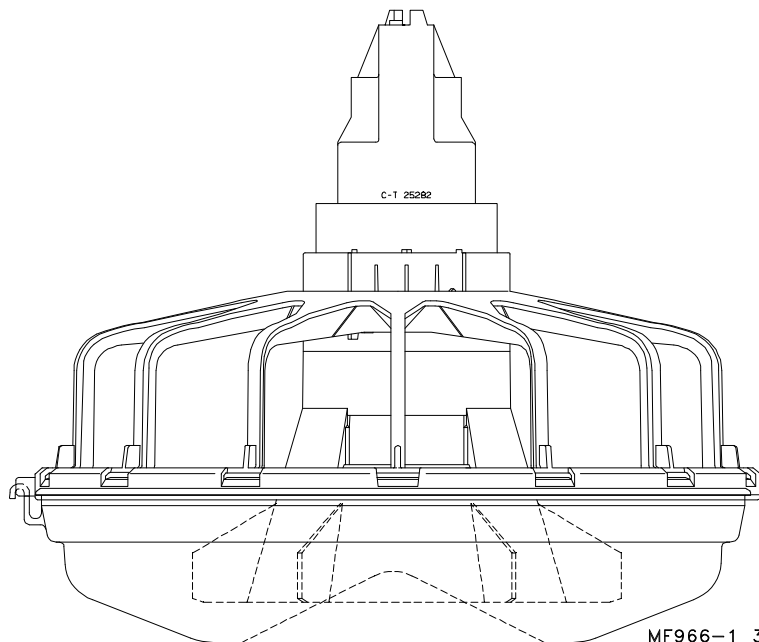


Installation Manual
for
Model C, C2, G, & H2
Feeding Systems



WARRANTY INFORMATION

Chore-Time Equipment warrants each new product manufactured by it to be free from defects in material or workmanship for one year from the date of initial installation by the original purchaser. If such a defect is found by Chore-Time to exist within the one year period, Chore-Time will, at its option, (a) repair or replace such product free of charge, F.O.B. the factory of manufacture, or (b) refund to the original purchaser the original purchase price, in lieu of such repair or replacement.

Additional extended warranties are herewith provided to the original purchaser as follows:

1. TURBO™ and RLX™ Fans, less motors, for three years from date of installation.
- *2. Poultry feeder pans that become unusable within five years from date of installation. Warranty prorated after three years usage.
3. MEAL-TIME® Hog Feeder pans that become unusable within five years of installation.
4. Rotating centerless augers, excluding applications involving High Moisture Corn (exceeding 18%), for ten years from date of installation. Note: MULTIFLO® and applications involving High Moisture Corn are subject to a one year warranty.
5. Chore-Time manufactured roll-formed steel auger tubes for ten years from date of installation.
- *6. Laying cages that become unusable within ten years. Warranty prorated after three years usage.
- *7. ULTRAFLO® Auger and ULTRAFLO® Feed Trough (except ULTRAFLO® Trough Liners) are warranted for a period of five (5) years from date of original purchase against repeated breakage of the auger or wear-through of the feed trough caused solely by the auger.

Conditions and limitations:

1. The product must be installed and operated in accordance with instructions published by Chore-Time or warranty will be void.
2. Warranty is void if all components of a system are not supplied by Chore-Time.
3. This product must be purchased from and installed by an authorized Chore-Time dealer or certified representative thereof, or the warranty will be void.
4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under this warranty.
5. This warranty applies only to systems for the care of poultry and livestock. Other applications in industry or commerce are not covered by this warranty.

Chore-Time shall not be liable for any consequential or special damage which any purchaser may suffer or claim to have suffered 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.

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 AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE SOLD AND DESCRIPTION OR QUALITY OF THE PRODUCT FURNISHED HEREUNDER.

Any exceptions to this warranty must be authorized in writing by an officer of the company. Chore-Time reserves the right to change models and specifications at any time without notice or obligation to improve previous models.

*See separate Chore-Time Cage Wire Warranty as to these products.

CHORE-TIME EQUIPMENT, A Division of CTB, Inc.
P.O. Box 2000, Milford, Indiana 46542-2000 U.S.A.

Chore-Time Poultry Feeder Pan Pro Rata Schedule

Year from date of installation during which pan becomes unusable	Charge to be paid by the purchaser for replacement.
0 - 1 years	NO CHARGE
1 - 2 years	NO CHARGE
2 - 3 years	NO CHARGE
3 - 4 years	4/10 of then current list price
4 - 5 years	5/10 of then current list price

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*Legend: C = Customer, D = Distributor, I = Installer

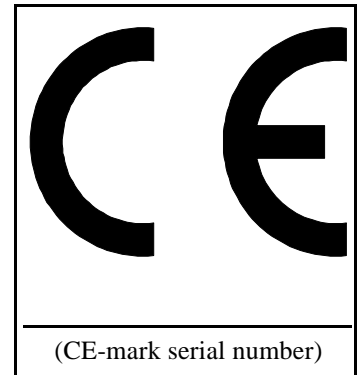
Support Information

The Chore-Time Model C, C2, H2, & G Feeding Systems are designed to feed poultry feed types. Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury and/or death.

This manual is designed to provide comprehensive planning, installation, wiring, operation, and parts listing information. The Table of Contents provides a convenient overview of the information in this manual. The Table of Contents also specifies which pages contain information for the sales personal, installer, and consumer (end user).

Chore-Time Equipment recognizes CE Mark and pursues compliance in all applicable products. Please fill in the CE-Mark serial number in the blank space provided for future reference.

Please include the name and address of your Chore-Time Distributor and installer.



Please fill in the following information about your Chore-Time feeding system. Keep this manual in a clean, dry place for future reference.

Distributor's Name _____

Distributor's Address _____

Distributor's Phone _____ **Date of Purchase** _____

Installer's Name _____

Installer's Address _____

Installer's Phone _____ **Date of Installation** _____

System Specifications _____

Feed Delivery System Supplying _____

Safety Information

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

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

Safety–Alert Symbol

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



Signal Words

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

DANGERidentifies immediate hazards which **WILL** result in severe personal injury or death.

WARNINGidentifies hazards or unsafe practices which **COULD** result in severe personal injury or death.

CAUTIONidentifies hazards or unsafe practices which **COULD** result in minor personal injury or product or property damage.



DANGER



WARNING



CAUTION

DANGER—MOVING AUGER

This decal is placed on the Clean-Out Cover of the FLEX-AUGER Control Unit.

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



DANGER—ELECTRICAL HAZARD

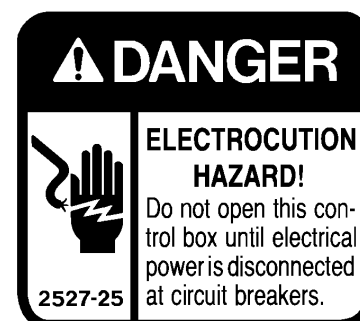
Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically state otherwise.

Ground all electrical equipment for safety.

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

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

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

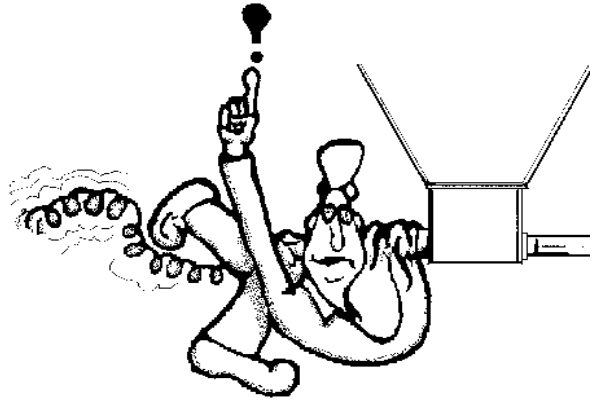


SAFETY INFORMATION



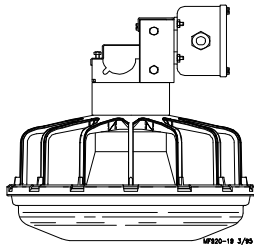
CAUTION

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



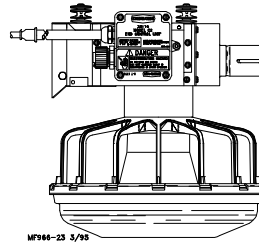
Glossary of Terms

Intermediate Control: A feeder, equipped with a switch, (located near the center of the feeder line) used to control the feeding system when partial house brooding.



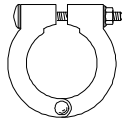
MF880-18 3/95

End Control: A feeder, equipped with a switch, (located at the power unit), used to control the feeding system.



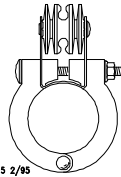
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Item #2 Clamp: A two-piece, riveted strap used to secure auger tubes together.



MF886-15 2/95

Item #1 Anti-Roost Bracket: An insulator and bracket assembly mounted on every fourth or fifth clamp to support shocker wire.



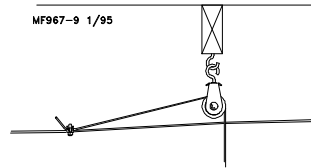
Adjustment Leveler: A cable locking device used to conveniently adjust the feeder to a level position.



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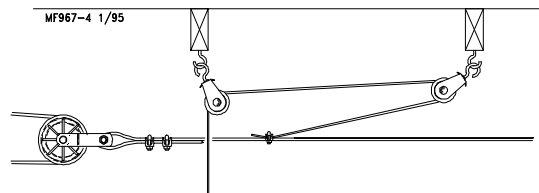
Drop Line: A section of cable fastened to the main cable, routed through a pulley, down to the feeder line.

MF967-9 1/95



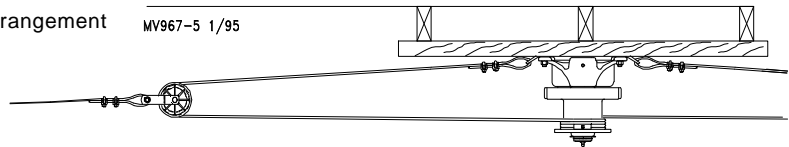
Throw-back: A cable/pulley arrangement that allows cable to be routed to a desired location.

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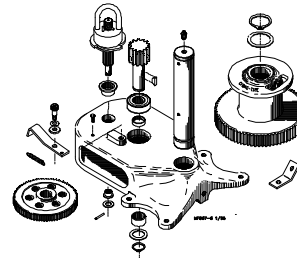


Double-back: A cable/pulley arrangement that reduces the load on the Power Winch.

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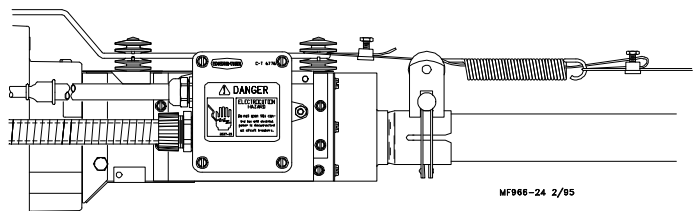


Power Lift: Red, cast iron winch used to raise and lower the feeder line(s). Operated by a hand crank or electric drill. Referred to as Power Winch.



MF967-6 1/95

Electro-Guard: A high voltage, low current shocking device used to keep birds from setting on the feeder line.



MF966-24 2/95

General Installation Information

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

The feeder pan assembly is different for each of the feeder systems. Refer to the applicable feeder pan assembly section.

The suspension, hopper assembly, feeder line installation, and Anti-Roost installation is the same for each system, except where noted otherwise. Please pay particularly close attention to insure proper assembly and installation of the equipment.

Capacities & Specifications

The Model C, C2, G, and H2 Feeders all use plastic feeder pans.

Each of the feeders may be used on broilers from 1 day old through the grow-out. The feeders are also recommended for turkey poults from 1 day old to 5 weeks old, and turkey hens 6 to 17 weeks old*. Each feeder has adjustability features built-in, allowing the operator to manage the feeding system effectively and efficiently.

The chart below provides the recommended birds-per-pan ratio.

Type of Bird	Recommended Feeder	Birds Per Pan
Broiler	Model C, C2, G, or H2	60 to 75
Broiler Breeder	Model C, C2, G, or H2	14 to 15
Commercial Leghorn Pullet or Hen (0 to 18 weeks)	Model C, C2, G, or H2	20 to 25
Commercial Leghorn Pullet or Hen (19 to 65 weeks)	Model C, C2, G, or H2	45 to 50
Turkey Poults (0 to 5 weeks old)	Model H2, C2, G, or CT	60 to 65
Turkey Hen (5 to 17 weeks old)	Model G (with Pan Lip Extension*)	40 to 45
Ducks (0 to 3 weeks old)	Model G	60 to 70
Ducks (4 to 8 weeks old)	Model G	50 to 60
Ducks Layer	Model G	40 to 45
Guinea (0 to 8 weeks old)	Model G	45 to 55

***The Model G Feeder with Pan Lip Extension is the only feeder recommended for use with turkey hens from 6 to 17 weeks old.**

Suspension systems are based on ceiling heights of 14 feet (4.26 m) with suspension drop points every 8 feet (2.4 m). DO NOT EXCEED 10 FEET (3 M) BETWEEN SUSPENSION DROPS. Refer to the suspension section in this manual for installation details.

The Agri-Time Meal-Time Control is used to control the Model C, C2, G, or H2 Feeders. The optional Agri-Time Time Clock Control may be used in certain installations where the Meal-Time feature is not required.

The Feeder Control Units should be at least 10 feet (3 m) from the wall or partition. See diagrams on page 11.

The Model C, C2, G, and H2 Control Units use a 348 R.P.M. Gearhead, delivering approximately 17 pounds per minute or 7.7 kg per minute. This rating is based on feed with a density of 40 pounds per cubic foot or 640 kg per cubic meter.

Single phase 60 Hz and single and three phase 50 Hz Power Units are available for the Model C, C2, G, and H2 Feeders.

Systems up to 300' (91 m) require 1/3 H.P. Power Units. Systems over 300' (91 m) require 1/2 H.P. Power Units.

General Management Recommendations that apply to Model C, C2, G, and H2 Feeder systems are covered below. In addition, each style of feeder has a section, explaining some of its individual features. Refer to the section that applies to the feeder you have purchased.

The *Model C Features* are covered on page 12.

The *Model C2 Features* are covered on pages 13 through 15.

The *Model H2 Features* are covered on pages 16 and 17.

The *Model G Features* are covered on page 18.

These sections provide you with valuable information concerning feeder installation, operation, etc. It is important that you read this information and understand how the feeder was designed to operate. Then, *you may custom operate* the system to fit *your* individual needs.

General Management & Start-Up

Partial House Brooding

It is recommended that the power unit end of the house be used for the brooding area. This helps avoid any section of the system running dry. Also, Intermediate Controls are not needed in this situation. Houses over 400' (122 m) should be split in the center, allowing either end to be used for partial house brooding.

If partial house brooding is required, the Intermediate Control is available.

With the recommended toggle switch wired into the system, the feeder line can be changed from full house brooding to partial house brooding with the flip of a switch.

Maintain a lower feed level in the Intermediate Control than in the rest of the feeders. This will cause the Intermediate Control Pan to empty more often, thereby starting the feeder line before the other pans become empty.

Do not hinder the bird movement around the Intermediate Control pan. Locate the curtain or partition several pans away from the Intermediate Control pan.

Provide adequate lighting so that the birds will not shy away from the Intermediate Control area.

Electro-guard Operation

Electro-guard cables should be tight to prevent sagging onto the feeder and shorting out. Tight cables also help keep pans in line on the tube.

The feeding equipment must be grounded through the power unit wiring or a separate ground wire for the electro-guard to work properly.

Electro-guard chargers should be operated on a separate circuit so the anti-roost system can be disconnected using a switch at the door when someone enters the pen. Birds are less likely to become wild and flighty if the electro-guard can be disconnected when people are in the house.

Start-Up Information

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.

Birds avoid dark or cold areas. Do not locate a control unit or intermediate control 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 avoided during installation. Later, artificial lighting can partially correct the problem.

During the first 5 days the system should be run manually with the feeder pans setting on the floor.

If the system accidentally runs out of feed and birds are without feed for some time, care must be taken when the pans are refilled.

Feed hoppers can be filled prior to starting the feeder lines to give the fill system a head start.

When feeders are turned on, it may be necessary to walk up and down the lines to scatter large groups of birds as they rush to the feeders.

It may be desirable to raise the feeder line so birds cannot reach it, fill all the pans, then carefully lower the line.

When birds are removed, all the remaining feed in the hoppers and the feeder pans must be removed. If possible, allow the birds to clean up feed prior to their removal.

Component Locations Diagram

Line lengths up to 300' (90 m) use 1/3 H.P. Power Units. Line lengths from 300' (90 m) to 500' (152 m) require 1/2 H.P. Power Units.

Adequate overhead structure must be provided to support the weight of the feeder, hoppers, power units, etc. Refer to the chart below for individual component weights.

Component	Weigh in pounds (kg)
Tube, Auger, Feeders, & Feed	5 lbs. (2.26 kg.) linear foot (.3 m)
Power Unit & Control Unit Assembly	50 lbs. (22.6 kg)
200 lbs. Feed Hopper & Feed	250 lbs. (113.4 kg)
100 lbs. Feed Hopper & Feed	150 lbs. (68 kg)
Power Winch	40 lbs. (18.1 kg)

Optional Intermediate Controls may be used for partial house brooding, as shown in Figure 1.

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 Intermediate Controls for partial house brooding.

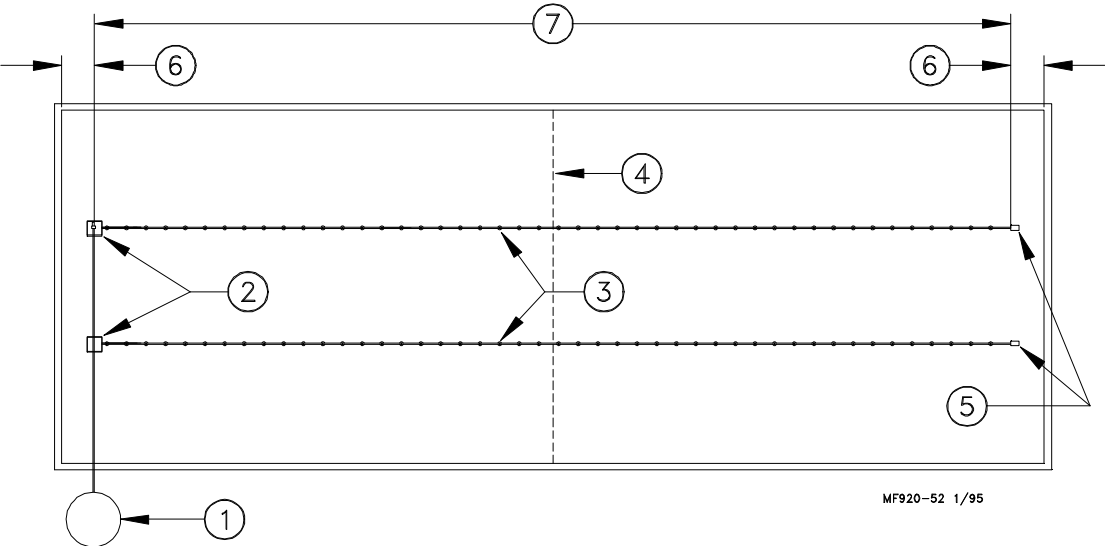


Figure 1. Component location diagram for systems up to 400 feet (122 m). (Top View).

Key	Description
1	Feed Bin
2	Feed Hopper
3	Intermediate Control
4	Brood Curtain
5	End Control/Power Unit
6	10' (3 m) minimum
7	Up to 400' (122 m)

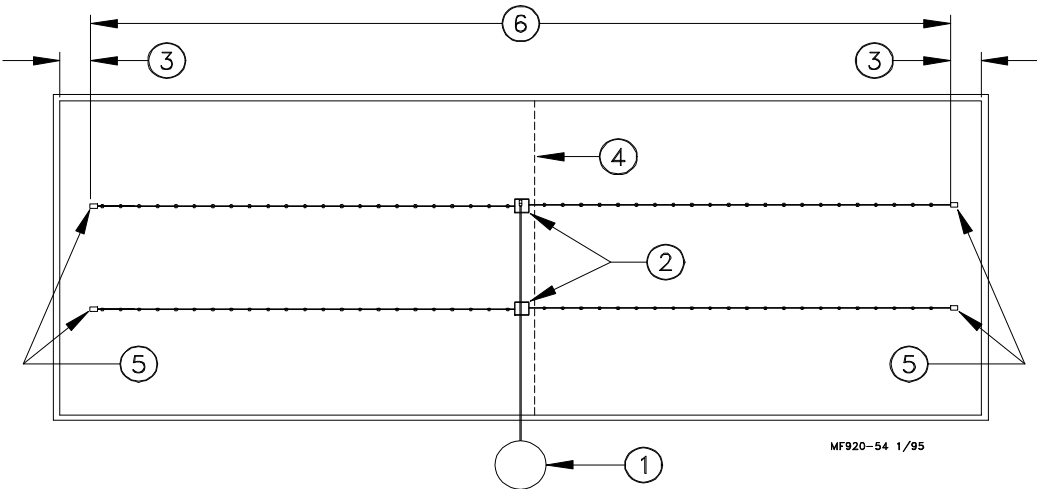


Figure 2. Component location diagram for systems over 400 feet (122 m). (Top View).

Key	Description
1	Feed Bin
2	Feed Hoppers
3	10' (3 m) minimum
4	Brood Curtain
5	End Controls/Power Unit
6	Over 400' (122 m)

Model C Features

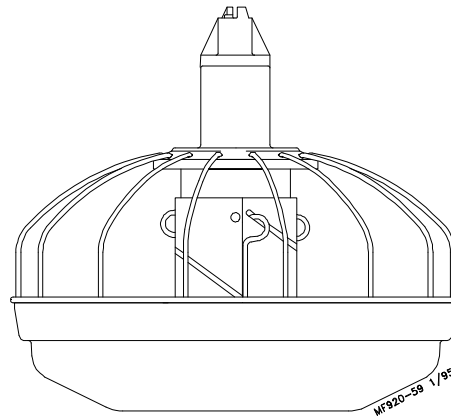


Figure 3. Model C Feeder (Side View)

The Model C Feeder (see Figure 3) is designed to be used primarily on broilers, cockerels, pullets and hens. The Model C may also be used to feed turkeys.

The feed level in each pan may be raised or lowered by adjusting the Feed Level Ring and Feed Level Tube. The Model C Feeder may be ordered with the standard Grill Support or the optional Two Piece Grill Support. See Figure 4.

Key	Description
1	Model C Grill
2	Two Piece Grill Support
3	Standard Grill Support
4	Feed Level Tube
5	Feed Level Ring
6	Model C Feeder Pan

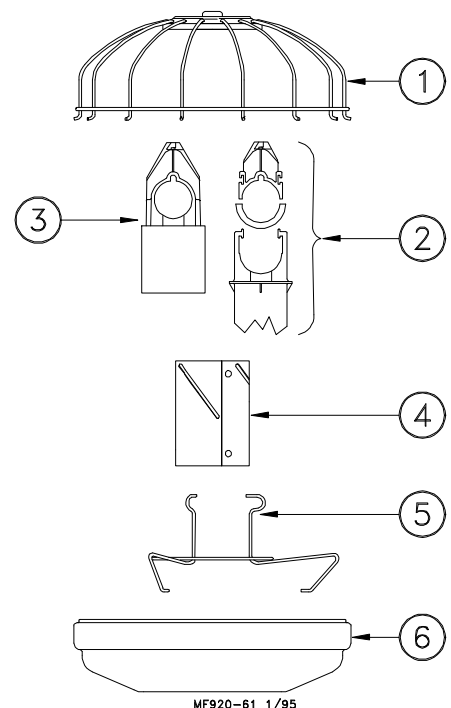
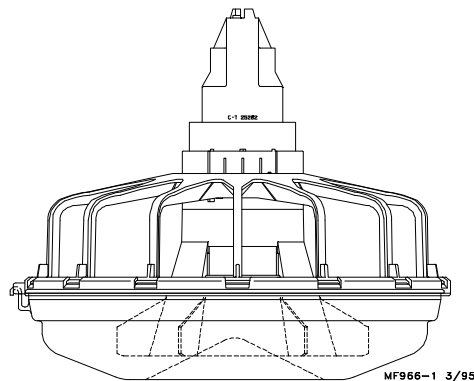


Figure 4. Model C Feeder (Side View)

Model C2 Features

**Standard Model C2 Feeder
(with Feed Windows)**



**1-Piece Model C2 Feeder
(Windowless)**

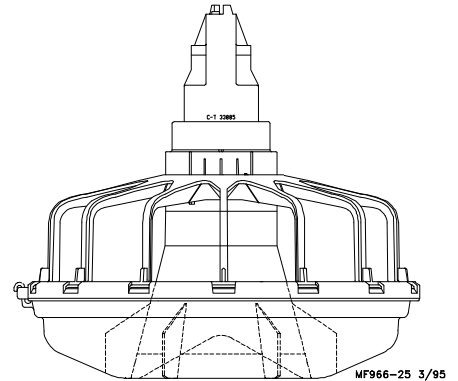


Figure 5. Model C2 Feeder (Side View)

The Model C2 Feeder (see Figure 5) is designed to be used on broilers, cockerels, pullets and hens from day old through grow out. The Model C2 may also be used on turkeys to 10 weeks old

The Model C2 Feeder has a variety of features as shown in Figures 6 through 12.

The Model C2 Feeder components are all plastic to avoid rust and corrosion while providing years of trouble free service. See Figure 6.



Figure 6. Plastic components.

The C2 Feeder is designed to operate with the Feed Windows OPEN or CLOSED with the feeder on the floor or suspended.

The 1-Piece (windowless) version is available for applications where the windows feature (flooding the pan w/ feed) is not required.

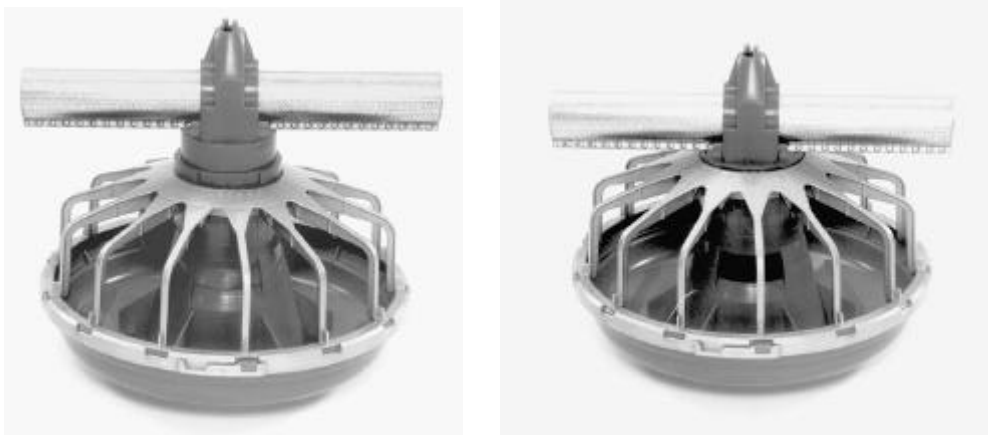


Figure 7. C2 Feeder (Windows closed: left, windows open: right.)

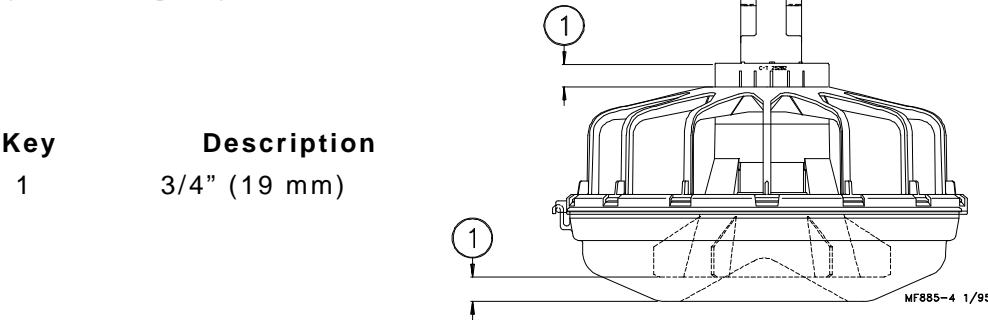
Adjustment settings are easy to understand and change. Settings numbers are embossed on both sides of the grill, so they may be easily seen from either side of the feeder line.



Figure 8. Adjustment settings (Top View).

It is easy to determine the amount of feed opening in the bottom of the pan. It is equal to the distance from the top of the grill to the top of the cone adjustment, when the feeder is suspended.

Figure 9. Feed opening dimension (Side View).



The pans are easily turned on the grill using the tabs formed on the bottom of the pan. See Figure 10.



Figure 10. Pan Installation (Bottom View).

The standard feeder uses a one piece Support Cone. The two piece swinging Support Cone, shown, is also available. See Figure 11.

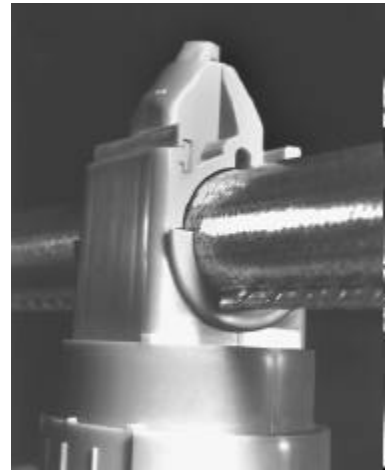


Figure 11. Swinging Support Cone (Side View).

The Feeder Pans may be removed from the grill, for easy cleaning, and remain attached for convenience, as shown in Figure 12.

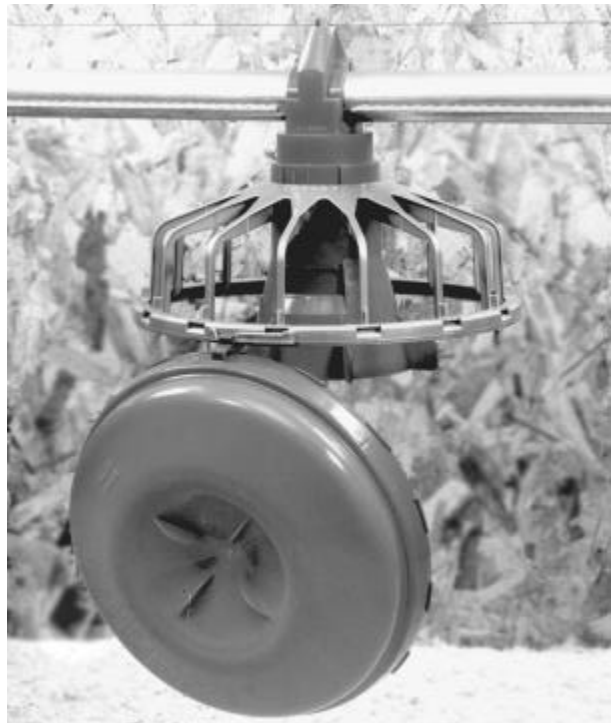


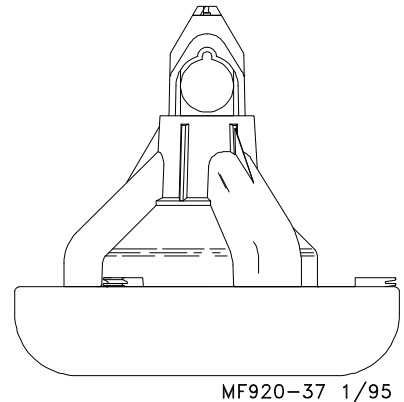
Figure 12. Hanging Feeder Pans (Side View).

Model H2 Features

The Model H2 Feeder is available with Feed Chutes. This feature allows easy filling of the Feeder Pan when birds are very young.

Recommended usage: Broilers & Turkeys

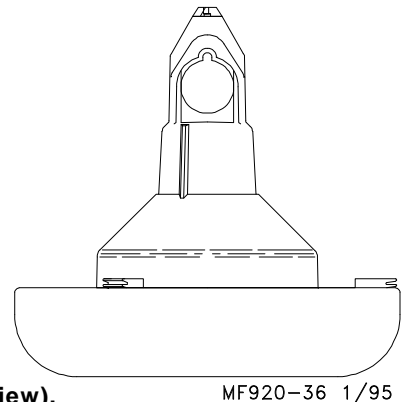
Figure 13. Model H2 with Feed Chutes (Side View).



The Model H2 Feeder is available without feed windows for use at the grow-out end of house.

Recommended usage: Broilers & Turkeys

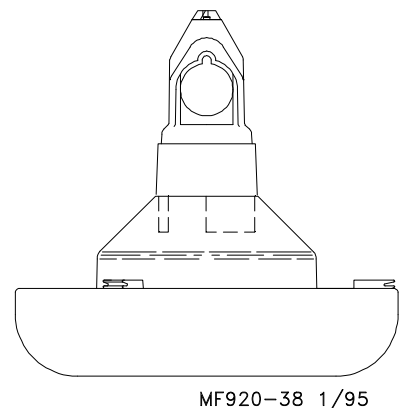
Figure 14. Model H2 without Feed Windows (Side View).



The Model H2 Feeder is available with a Flood Collar. This feature allows easy flooding of the Feeder Pans when birds are very young.

Recommended usage: Broilers

Figure 15. Model H2 with Flood Collar (Side View).



The Chore-Time Model H2 is designed to feed broilers from day old through grow-out, and turkeys from day old through 8 weeks.

The H2 Feeders with Feed Windows are specifically designed to fill the feeder pan with feed while the birds are very young. This insures the birds know where to get feed and have easy access to it.

The windows in the feeders may be closed to reduce the amount of feed into the feeder pan.

The H2 Feeder Pans have the ability to swing down to facilitate easy cleaning without having to fully remove the feeder pans. See Figure 16.



Figure 16. Hanging Model H2 Feeder Pans.

Figure 17 shows the Pan Adjustment Tab numbers. Adjusting the H2 Feeder Pan to different settings changes the feed level in the pan. Chore-Time recommends starting out broilers at setting #2 and turkeys at setting #4.

If the feeder pans do require adjustment, gently pull the pan away from one of the struts to release. Reset the pan in the other two struts. Gently, pull the pan into the appropriate setting on the third strut.

Refer to the Feeder Management section, on page 20, for additional operation recommendations.

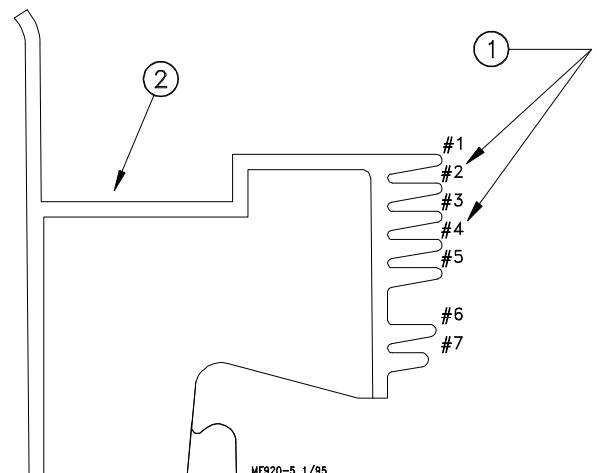


Figure 17. Pan Adjustment (Side View)

Model G Features

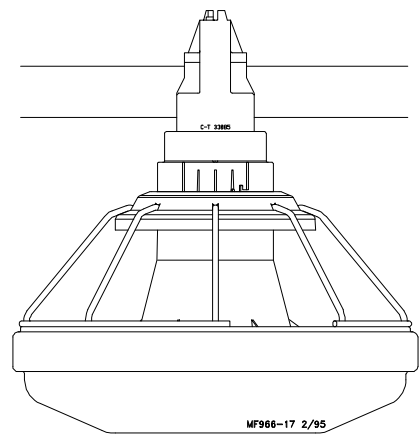


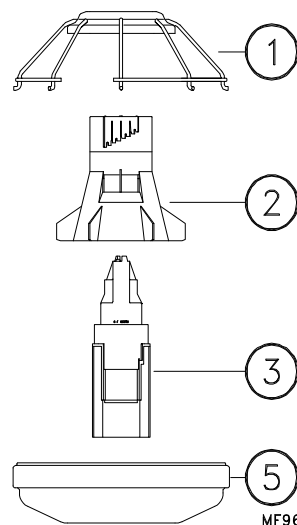
Figure 18. Model G Feeder (Side View)

The recommended usages of the Model G Feeder include broilers, cockerels, turkeys, and ducks. The Model G may also be used to feed other types of birds.

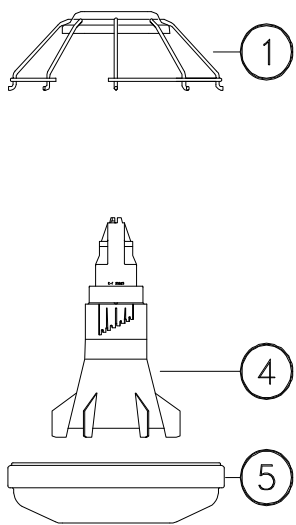
The Model G Feeder, as shown in Figure 18, has a heavy duty 8 spoke grill which allows ample feed access for large birds. Features include a high cone feed pan and a Feed Level Tube with feed fins to provide minimal feed wastage. A valuable feature of the Model G is feed flood windows which allows the feeder pan, when lowered to the floor, to be filled with feed for the brooding of young birds. The optional Pan Extension may be used to prevent feed wastage on large birds.

The Model G is available with the standard adjustable 2-piece Grill Support or the optional 1 piece (windowless) Grill Support. Both versions are shown in Figure 19.

Two-Piece Model G



One-Piece Model G



Key	Description
1	Model G Grill
2	Adjustable Support Cone
3	Grill Support
4	One-Piece Grill Support
5	Model G Feeder Pan

Figure 19. Model G Feeders (Side View)

Feeder Management

General Operation of the Model C Feeder

These recommendations are guidelines to aid producers in developing a feeding program. Many factors such as feed content, type of bird, etc. may dictate change from these recommendations.

Start young birds on the feeder with the pans resting on the floor. As the birds grow, raise the feeder line.

Keeping the pans at the proper height prevents birds from raking feed excessively. For additional information on pan height adjustment refer to the diagram on page 20 in this manual.

When filling the pans for young brooding birds, operate the feeder, then walk along the line lifting the Feed Level Tubes in each pan to allow feed to spread to the edges of the pan. During the first couple days, the pans may be filled manually.

For chickens, begin with the Feed Level Tube/Ring Assembly in the fifth adjustment from the bottom. The "V" bottom pan allows 3/4" to 1" (20 to 25 mm) feed depth, measured from the deepest part of the pans. If birds are severely debeaked the feed level may need to be increased by adjusting the Feed Level Tubes. If the Model C Feeder is to be used to feed turkeys, the 4329 Feed Level Tube is required.

General Operation of the Model C2 and Model G Feeders

These recommendations are guidelines to aid producers in developing a feeding program. Many factors such as feed content, type of bird, etc. may dictate change from these recommendations.

Start young birds with the feeder pans resting on the floor. The Model C2 has the ability to fill the feeders while setting on the floor or suspended. With the feed windows open, feed will spill out in the pan, making it easier for the birds to find feed, adapt to the feeder, and begin to eat. Make sure all the feed windows are in the same position, OPEN or CLOSED.

Raise the feeder as the birds grow. This will automatically close the feed windows, unless they are locked open. Chore-Time recommends opening the feed windows in the pans for the first 5 to 10 days, for broilers. Open the feed windows in the pans for the first 10 to 14 days, for turkeys. The feeders will need to be operated at least twice a day for the first 5 days, thereafter pans may need to be resupplied 3 times a day or as birds eat feed level down.

Keeping the pans at the proper height prevents birds from raking feed excessively. For additional information on pan height adjustment refer to the diagram on page 20 in this manual.

DO NOT RUN THE SYSTEM ON AUTOMATIC (FULL FEED) WHEN FEED WINDOWS ARE OPEN.

In most cases, setting #4 is recommended. However, feed texture, fat content, type of bird, or some other variables may make it necessary to change to another setting. The combination of proper pan height, feeder setting, and time clock operation, will result in optimum feeder performance. The operator will learn what works best for his/her situation by experience.

General Operation of the Model H2 Feeder

These recommendations are guidelines to aid producers in developing a feeding program. Many factors such as feed content, type of bird, etc. may dictate change from these recommendations.

For feeders with Flood Collars:

When preparing the house for baby chicks, place paper under the feeder lines that are in the brood end of the house. The feed windows should be open to allow the feeder to flood. The feed that overflows the pan onto the paper will direct the birds to the feeder. Place additional feed trays in the brood end of the house.

During the first 5 days the feeder is to be operated once a day. Brood young birds on the feeder with the pans resting on the floor.

Broilers: At 4 to 5 days, close the Flood Collars and raise the feeder pans just off the litter.

Set the Struts in the #2 setting for poultry or the #4 setting for turkeys.

For feeders with Feed Chutes:

Set the Struts in the #2 setting for poultry or the #4 setting for turkeys.

When preparing the house for poults or chicks, set the chutes in the brood position. Place additional feed trays in the brood end of the house.

During the first 5 days the feeder is to be operated twice or three times a day. Brood young birds on the feeder with the pans resting on the floor.

Broilers: At 8 to 12 days, close the Feed Chutes.

Turkeys: At 10 to 14 days, close the Feed Chutes.

Set the Struts in the #2 setting for poultry or the #4 setting for turkeys.

For feeders without Feed Windows:

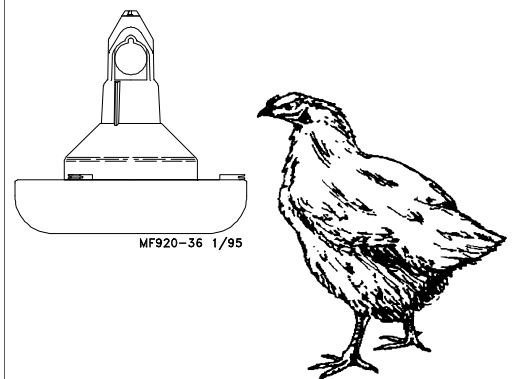
Set the Struts in the #2 setting for poultry or the #4 setting for turkeys.

The feeder should be raised just enough to clear the litter. As birds grow, raise the feeder accordingly. Normally, the lip of the pan should be at the height that the birds breast enter the neck. Keeping the pans up at the proper height prevents the birds from raking the feed excessively.

At 3 weeks of age, begin meal feeding the birds, if desired. Follow the chart in this instruction manual to set up time clock. Adjust the daily run times through-out the life of the birds on a weekly basis. Additional adjustment may be required to suit the feed and the birds. Refer to the General Management Recommendations for Meal-Time Feeding on page 53, of this manual.

Because of variation in feed texture, fat content, type of birds and other variables, the operator must learn what works best for his situation by experience. A combination of proper pan height, feeder pan adjustment, and time clock operation, will result in optimum feeder performance.

Pan Height Adjustment



After the birds are through the brood stage, the lip of the pan should be at the approximate height the bird's neck enters the breast. Proper pan height reduces feed wastage, improves feed conversion, and provides more income for the producer. Note the proper pan height shown, above.

Feeder Assembly Procedure

Pan Assembly Procedure for Model C Feeders

The Model C components are shown in Figure 20.

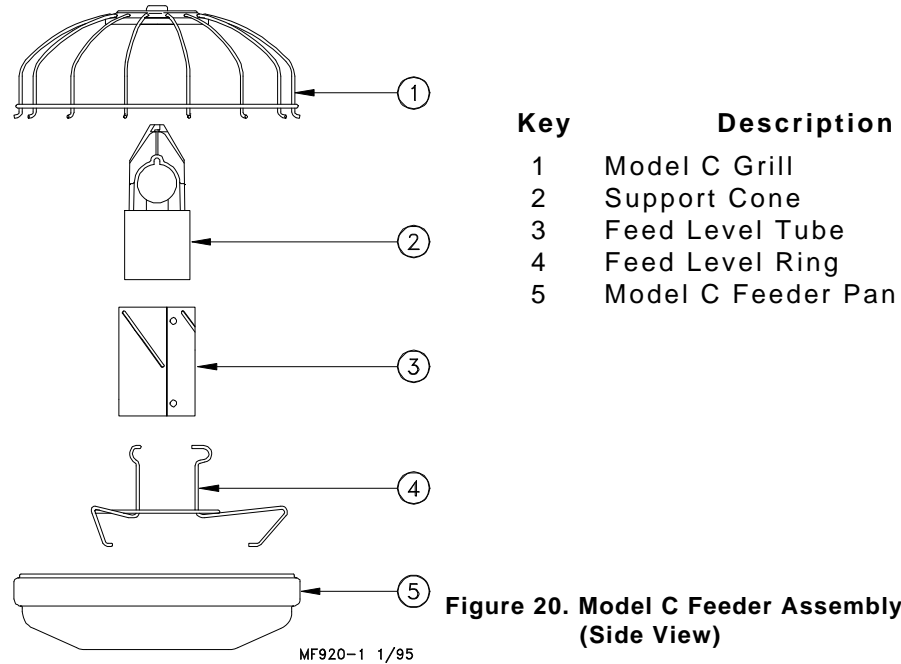


Figure 20. Model C Feeder Assembly Procedure. (Side View)

1. Assemble a Feed Level Tube into a Feed Level Tube Ring by inserting the tube up into the ring as shown in Figure 21.
Position the ring in the fifth adjustment hole from the bottom. Place the tube and ring assembly in a feeder pan.

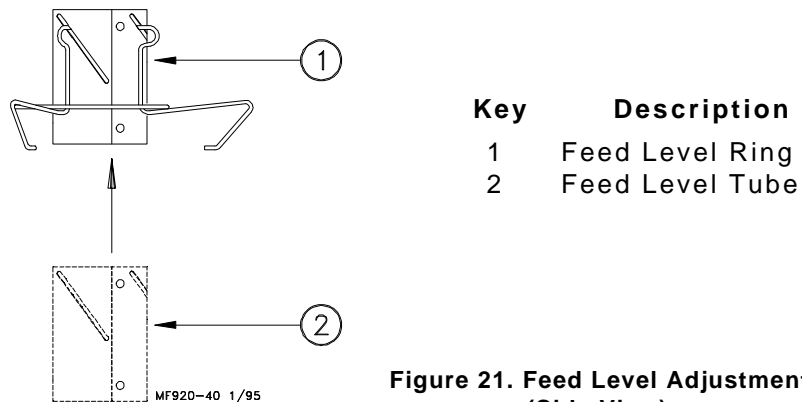


Figure 21. Feed Level Adjustment Procedure. (Side View)

2. Place the Grill over the Support Cone. The grill "pops" securely into place. Apply pressure until the grill rests on the lip of the Support Cone. Install the Grill Assembly on the pan and Feed Level Assembly.
3. Repeat the above procedure to build all the required Feeder Assemblies for the house.

The Feeder Assemblies will be installed on the auger tubes in the Feeder Line Installation section.

Assembly Box Construction for Model C2 Feeders

This information and assembly only applies to Model C2 installations. Chore-Time recommends building an assembly box to aid in assembling the Model C2 feeders.

To build the assembly box for the C2 Feeder, use a 16" (406 mm) square piece of plywood and four 14-1/2" (368 mm) long pieces of 2 x 10 (20 x 250 mm), these can be cut from a 5' (1.5 m) section of 2 x 10 (50 x 250 mm).

1. Cut a 3/4" (20 mm) piece of plywood 16" (400 mm) square. See Figure 22A.

Cut a 4" (100 mm) piece out of the middle of one side. See Figure 22A.

2. Center the grill on the 16" (400 mm) square piece of plywood. Use a pencil and draw around the outside edge of the grill as shown in Figure 22B.

Mark a "V" at each strut location.

Figure 22A.

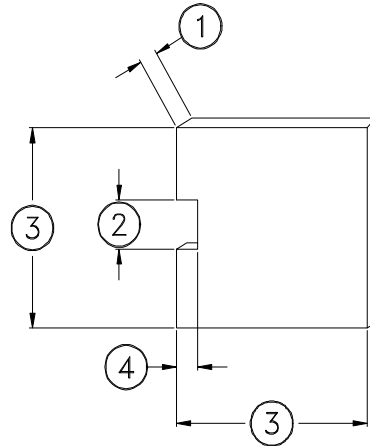


Figure 22B.

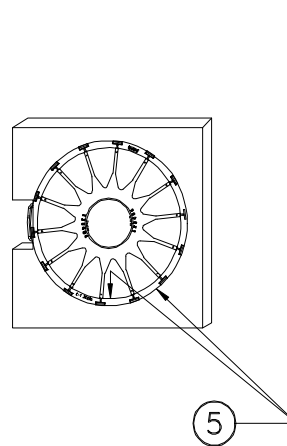
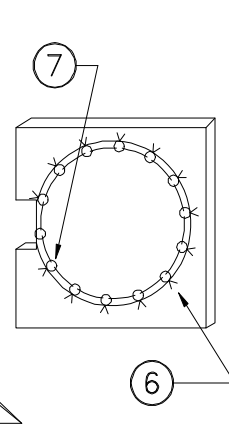


Figure 22C.



MF920-35 1/95

Figure 22D.

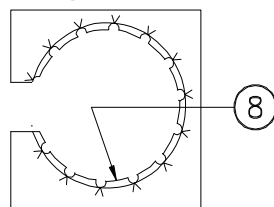


Figure 22E.

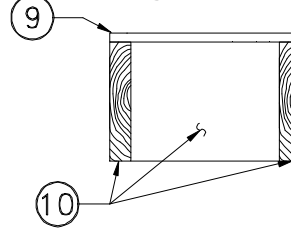
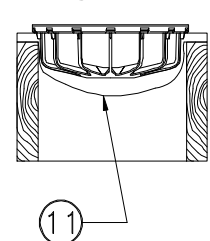


Figure 22F.



Key	Description
1	.75" (19 mm)
2	4" (100 mm)
3	16" (406 mm)
4	3" (75 mm)
5	Center a Grill on the board and draw around the outside & between the struts on the inside.
6	Mark a "V" at each strut location.

Key	Description
7	Use a 7/8" spade bit to drill a hole at each strut location.
8	Cut on inside circle
9	3/4" (19 mm) plywood with cut-out.
10	2"x10"x14.5" (50x250x368 mm)
11	Board is shown cut away to clearly show the Grill set in assembly box.

Figure 22A - 22E.(22A - 22D Top View; 22E - 22F Side View)

3. Remove the grill.
Use a 7/8" (22 mm) spade bit to drill a hole at each strut location, as shown in Figure 22C.
4. Use a sabre saw to cut along the *inside* circle, between the 7/8" holes. See Figure 22D.
5. Use (4) 14-1/2" (370 mm) 2 x 10's (50 x 250 mm) to construct the box sides. Nail the 3/4" plywood fixture to the box. See Figure 22E.
It is important to use at least 10" (250 mm) sides for the box. Smaller lumber will not allow sufficient depth for the grill to be placed in the box face down.
Figure 22F shows how the grill should fit down in assembly box.
NOTE: Board is cut away for clarity only.

Pan Assembly Procedure for Model C2 Feeders

1. Place a Grill in the pan assembly box fixture. Make sure the hinge lip on the grill is located in the cut out section of the box.
2. Two-Piece Model C2 Feeders: Install the Cone Adjustment and Support Cone in the grill, as shown in Figure 23.
One-Piece Model C2 Feeders: Install the One-Piece Support Cone in the grill, as shown in Figure 23.

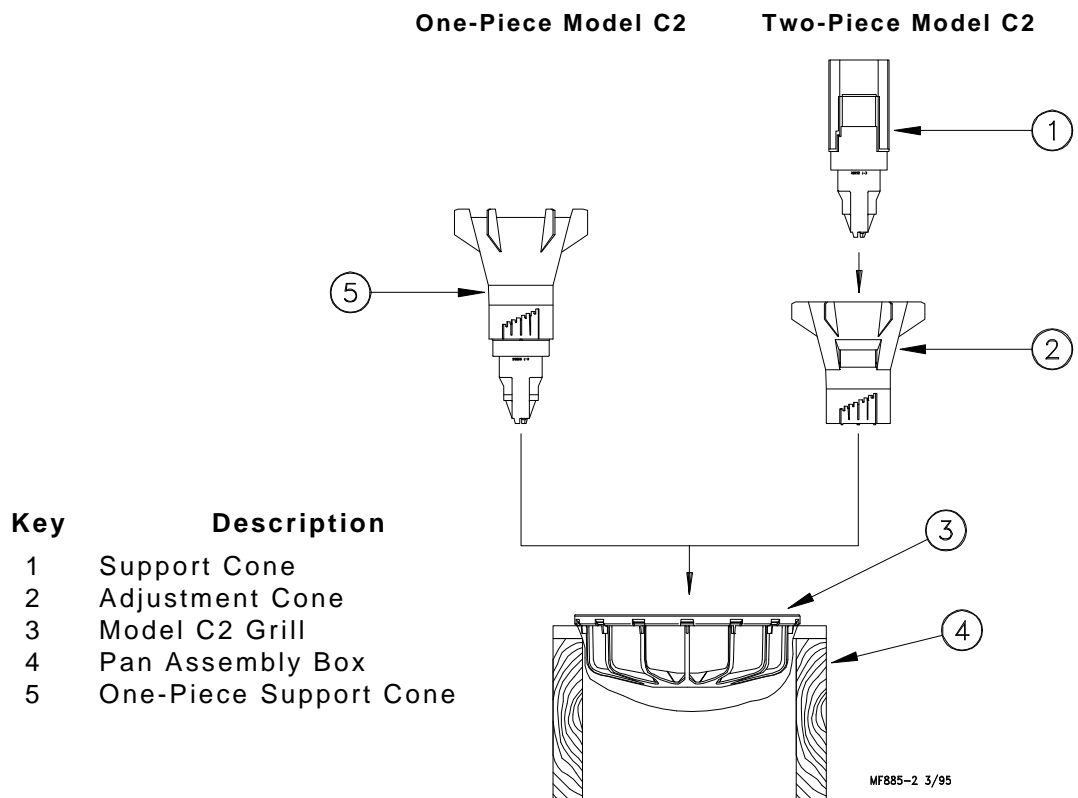
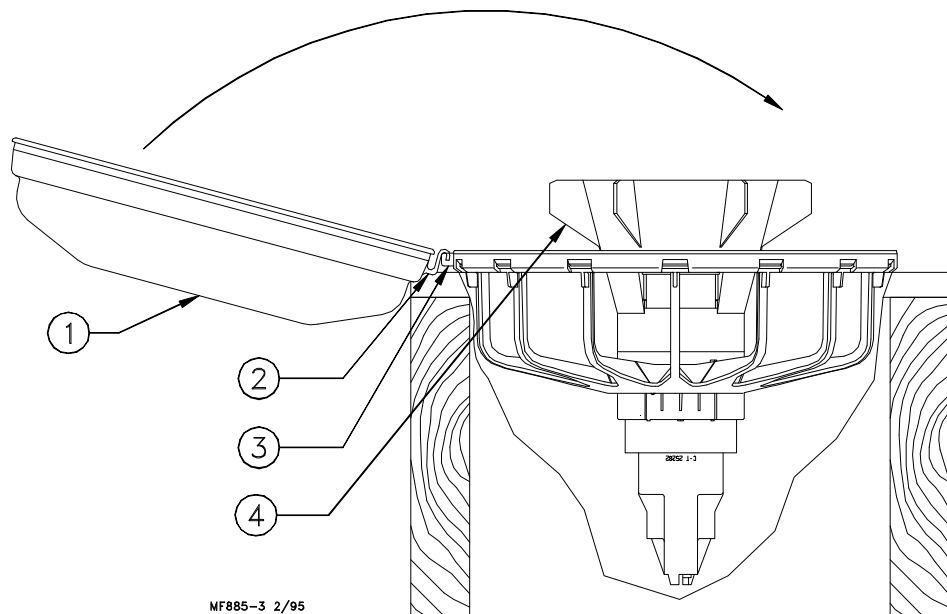


Figure 23. Model C2 Feeder Assembly (Side View)

3. Interlock the hinge hook on the pan with the hinge lip on the grill.
The pan should be face up, as shown in Figure 24.
Flip the pan into the groove of the grill.
4. With the feeder still in the fixture, rotate the pan clockwise in the grill until pan locks engage.
The tabs (on the bottom of the pan) may be used to grip the pan when rotating.
5. Remove the pan assembly from the fixture.
6. Build all the required Feeder Assemblies for the house.
The Feeder Assemblies will be installed on the auger tubes in the Feeder Line Installation section.



Key	Description
1	Model C2 Feeder Pan
2	Hinge Hook
3	Hinge Lip
4	Support Cone

Figure 24. C2 Pan Assembly (Side View)

Pan Assembly Procedure for Model H2 Feeders

1. Broilers: Position the lip of the feeder pan in the #2 tab of 2 of the struts. See Figure 25.

Turkeys: Position the lip of the feeder pan in the #4 tab of 2 of the struts. See Figure 25.

Key	Description
1	Position the pan lip in setting #2 for broilers. Position the pan lip in setting #4 for turkeys.
2	Strut on Model H2 Feeder Cone

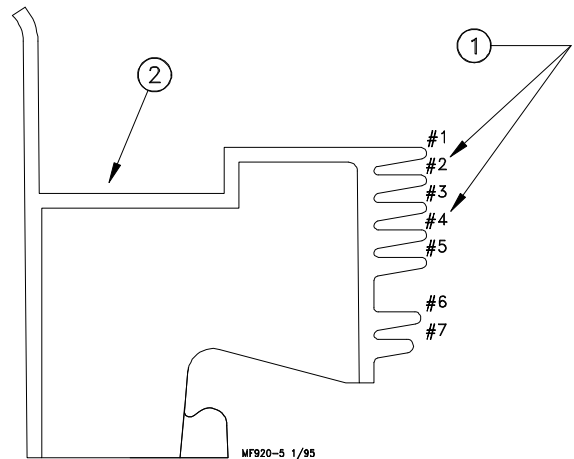


Figure 25. (Side View)

2. Pull the pan, as shown in Figure 26, so that the lip of the pan will be in the proper setting on the third strut.



Figure 26.

3. Note: If Chutes or Collars are to be used, they must be installed at this time. The H2 with Flood Collar is for feeding birds started with paper under the feeder pans.

To install, slide the Flood Collar over the top of the feeder. The legs of the Flood Collar fit inside the cut-outs in the Feeder cone.

Feed Chutes are used to fill the pans setting on the litter.

To install, slide the Feed Chute over the top of the feeder. The fingers of the Feed Chute must be point down, toward the feeder pan.

Figure 13 - 15 on page 16 show the three different versions of the Model H2.

4. Build all the required Feeder Assemblies for the house.

The Feeder Assemblies will be installed on the auger tubes in the Feeder Line Installation section.

Pan Assembly Procedure for Model G Feeders

The Model G Feeder is available with a two-piece or one-piece (windowless) model. Both versions are shown in Figure 27.

1. Two-Piece Grill Support: Insert the Support Cone up through the bottom of the Adjustment Cone, as shown in **Figure 27**.
2. Insert the Grill Support component(s) into the plastic ring in the top of the Grill Assembly, as shown in **Figure 27**.

Two-Piece Model C2

One-Piece Model C2

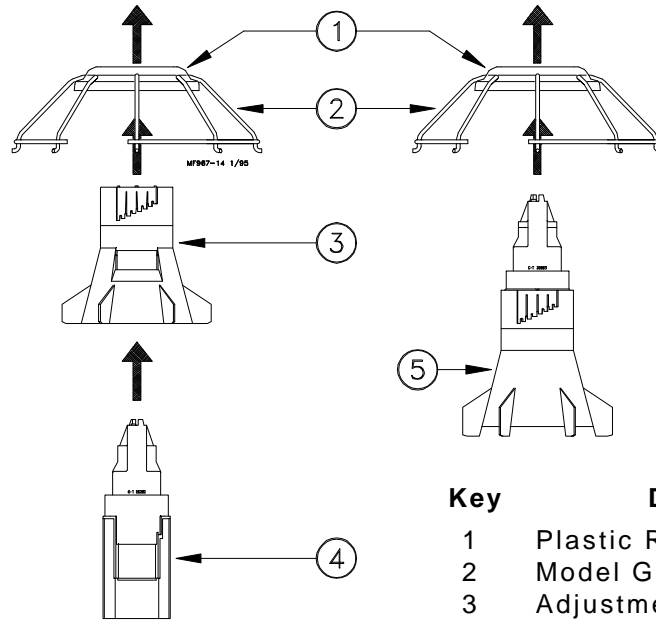


Figure 27. Model G Feeder Assembly (Side View)

3. Squeeze the Grill Struts together, at the opening, to allow the Grill Assembly to be seated in the Feeder Pan, as shown in **Figure 28**. Notice that the steel ring on the Grill Assembly, rests on the lip of the Feeder Pan. See the Detail Diagram in **Figure 28**.
4. If the optional Grill Lock is to be used, install it as shown in Figure 28.
5. Build all the required Feeder Assemblies for the house.

The Feeder Assemblies will be installed on the auger tubes in the Feeder Line Installation section.

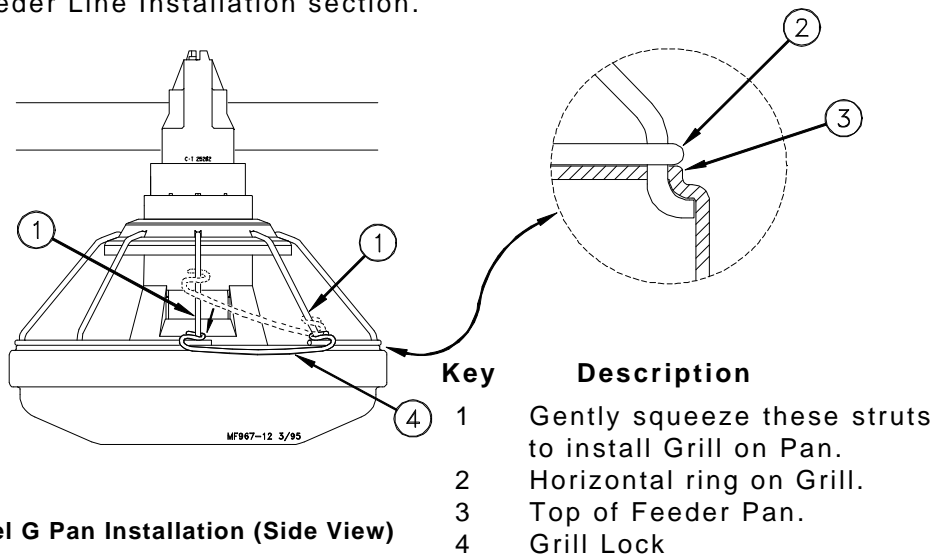


Figure 28. Model G Pan Installation (Side View)

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.

The suspension system is the same for the Model C, C2, G, and H2 Feeders. The type of installation required depends on feeder line length. Figure 29, on page 28, shows the suspension system for feeder line lengths to 350' (107 m). Figure 30, on page 29, shows the suspension system for feeder lines over 350' (107 m).

IMPORTANT: Special support is required at each Power Unit and Hopper location. Figures 29 and 30 show the **additional** suspension required at these locations.

- **Power Unit locations:** The feeder line must be supported within 3 feet (1 m) of the Power Unit. This is in addition to the required Power Unit suspension. If the Control Unit does not come out directly under a truss, fasten a pulley to a 2x8 (50x200 mm) board that will span 2 trusses to support the Control Unit.
- **Feed Hopper locations:** The feeder line must be supported within 1 foot (30 cm) of the Feed Hopper. This is in addition to the required Feed Hopper suspension.

After determining the type of suspension system required, decide where the feeder line is to be installed. Mark a straight line on the ceiling or rafters the full length of the feeder line. Use a string, chalk line, or the winch cable, temporarily attached with staples, to mark the line. Center the line directly over where the feeder is to be installed.

The recommended distance between the drops for the Model C, C2, G, and H2 is 8' (2.4 m) on center. Do not exceed 10' (3 m) spacing on drop lines.

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. See Figure 31.

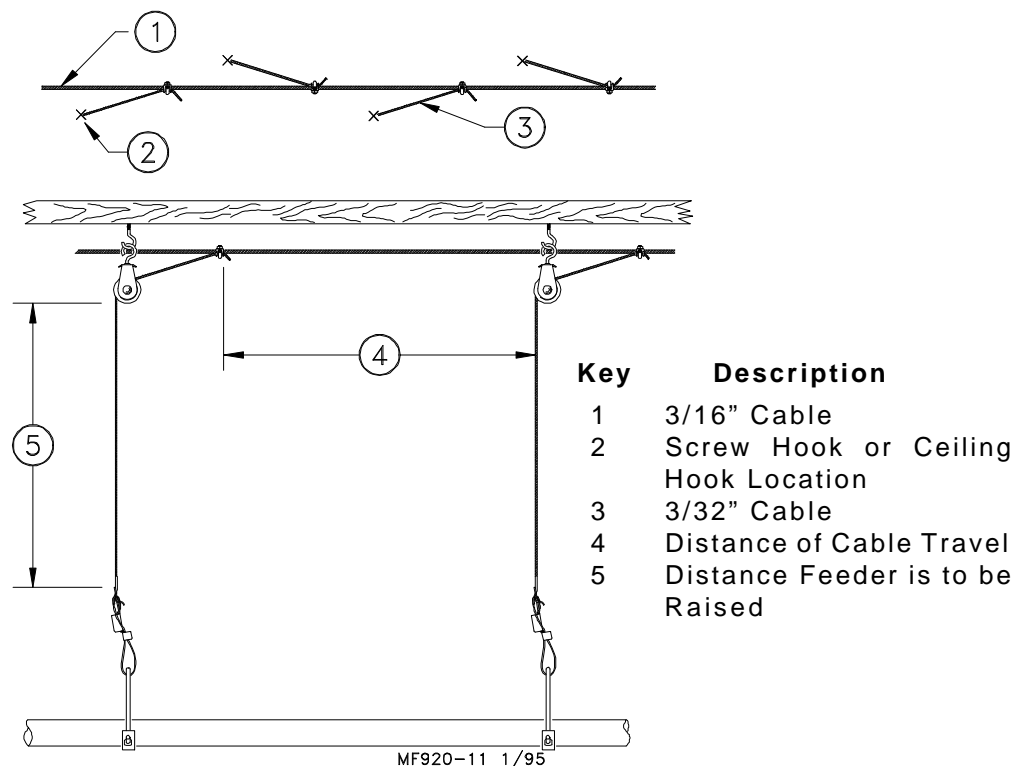
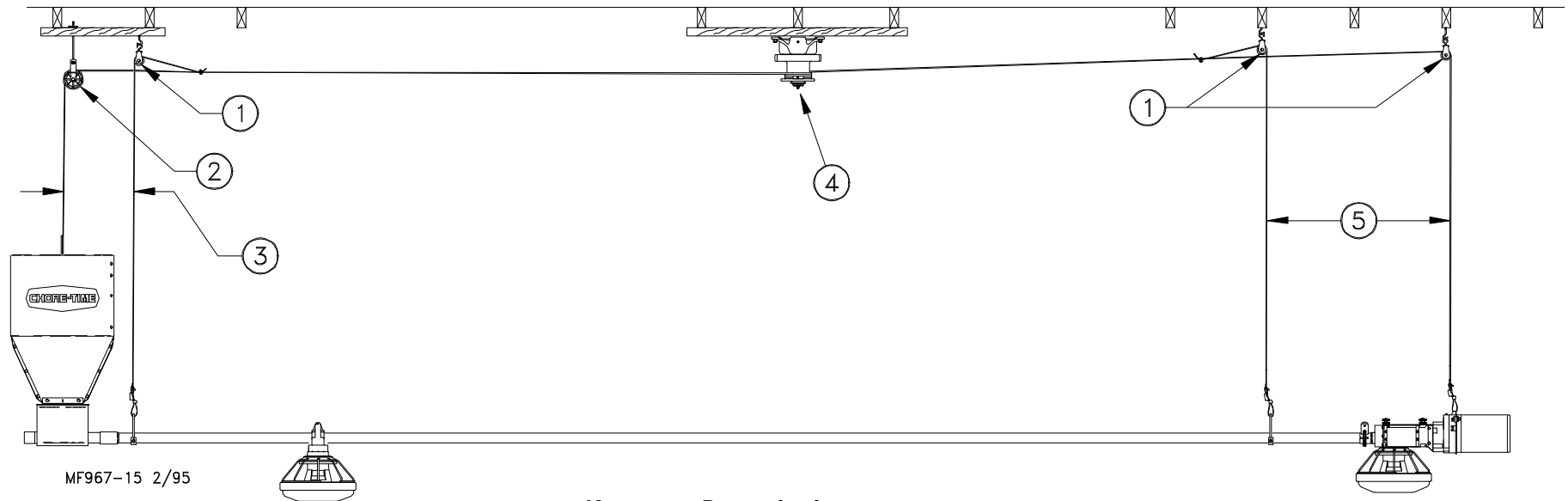


Figure 31. Drop Line Off Set Detail (Side View).

For systems up to 350' (107 m).

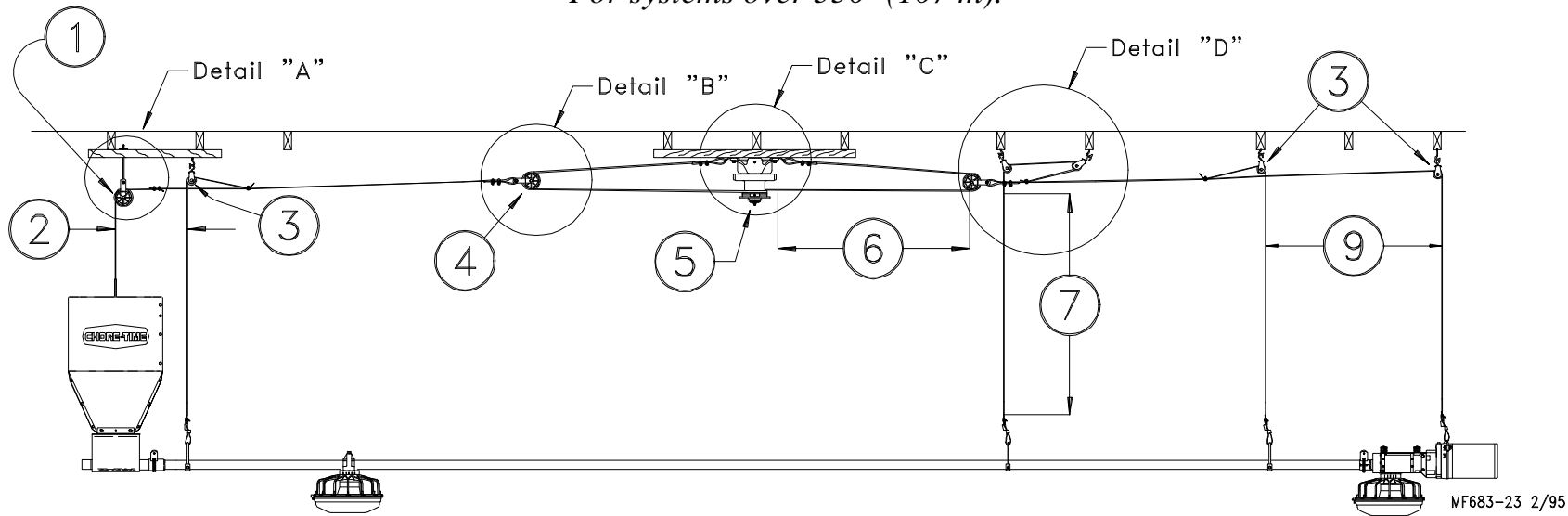
28



Key	Description
1	Swivel Pulley
2	Full Line Suspension Kit
3	1 Foot (30 cm)
4	Power Winch
5	3 Feet (1 m)

Figure 29. Suspension for systems up to 350' (107 m).

For systems over 350' (107 m).



Key	Description
1	Full Line Suspension Kit
2	1 Foot (30 cm)
3	Swivel Pulley (#3004)
4	Pulley (#2500)
5	Power Winch
6	"X" + 2 Foot (60 cm)
7	"X" = Distance the feeder is to be raised.
8	Double Cable Clamp here.
9	3 Feet (90 cm)
10	Drop Line
11	Single Cable Clamp here.

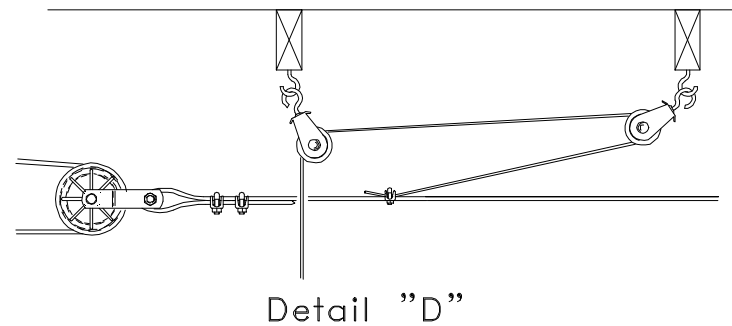
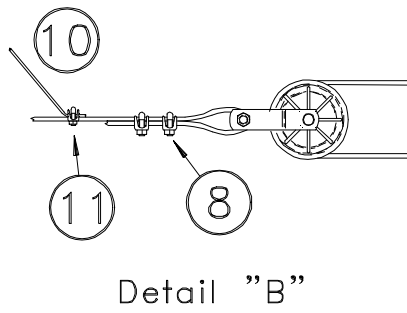
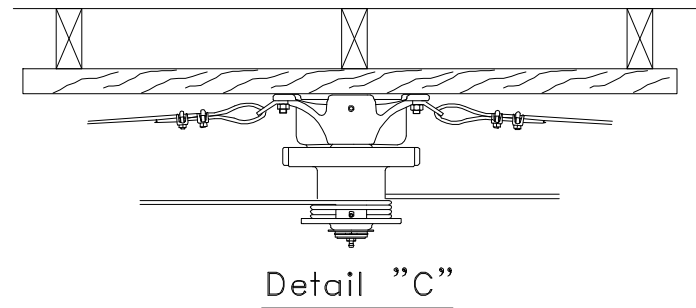
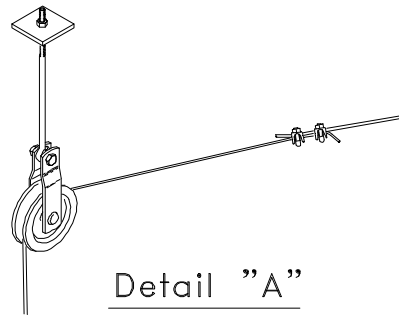


Figure 30. Suspension for systems over 350' (107 m).

Refer to **Figures 32 or 33 through 36** for specific installation instructions for the screw hooks and ceiling hooks.

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 required to hold the pulley assemblies.

Screw Hook Installation

1. Screw the hook into the truss the full length of the threads to prevent bending.
2. 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 32**.

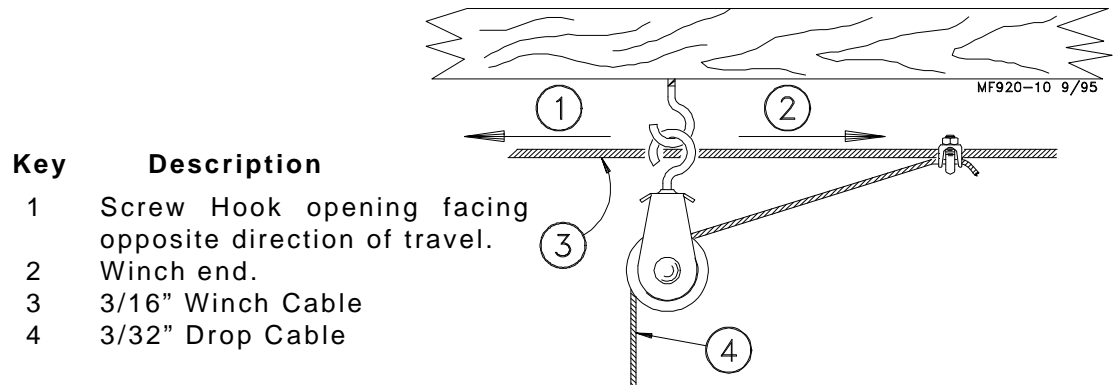


Figure 32. Screw Hook Installation (Side View)

Ceiling Hook Installation

1. The ceiling hook may be used in a variety of installations. Depending on your ceiling or rafter type, install the Ceiling Hooks as shown in **Figures 33 - 37**.

Wide Steel Truss Installations

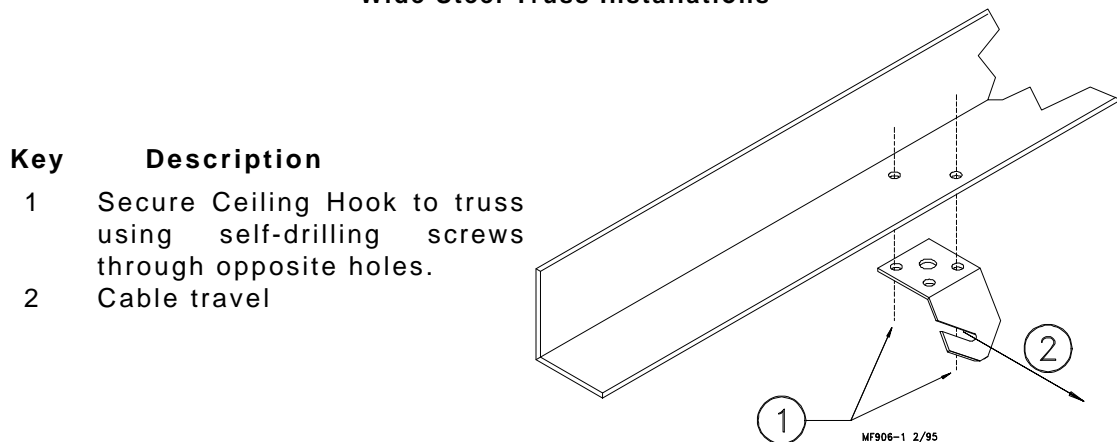


Figure 33. Ceiling Bracket Installation

Narrow Steel Truss Installations

- | Key | Description |
|-----|--|
| 1 | Secure Ceiling to truss using self-drilling screws through side-by-side holes. |
| 2 | Cable travel |

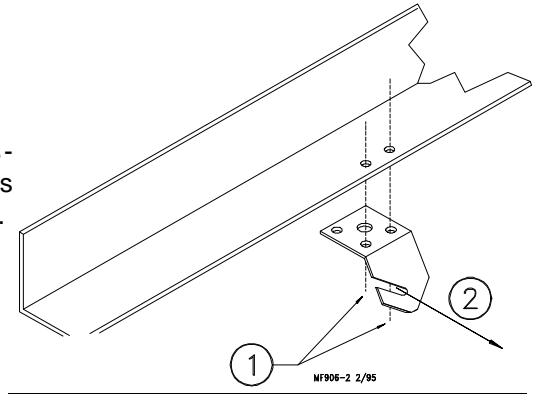


Figure 34. Ceiling Hook Installations

Steel Truss Welded Installations

- | Key | Description |
|-----|-------------------------------------|
| 1 | Weld Ceiling Bracket to truss here. |
| 2 | Cable travel. |

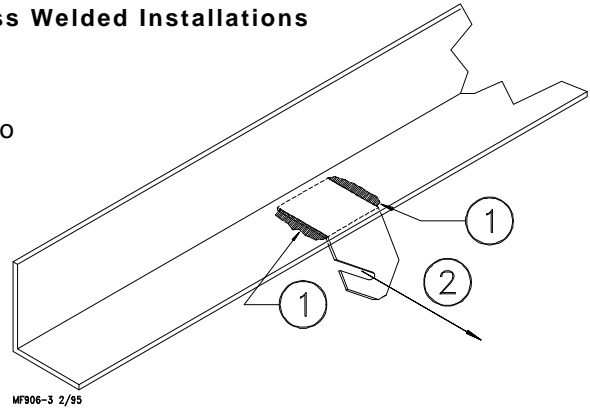


Figure 35. Ceiling Hook Installations

Wood Truss Installations

- | Key | Description |
|-----|---|
| 1 | Secure Ceiling Bracket to truss using 1/4" lag screw through center hole. |
| 2 | Cable travel. |

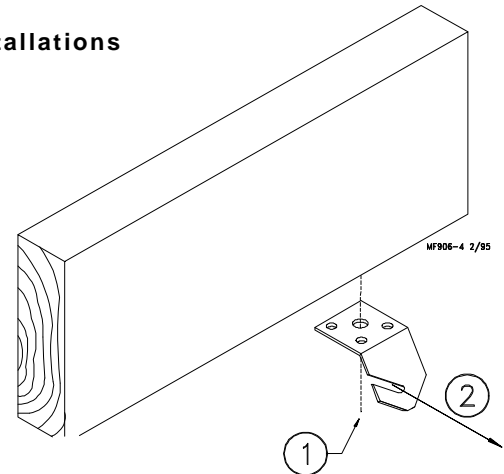
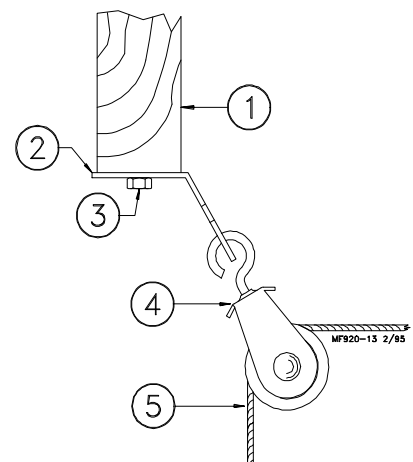


Figure 36. Ceiling Hook Installations

- After securing the Ceiling Hook to the truss, slide the hook of a Swivel Pulley into the slot, as shown in **Figure 37**.

- | Key | Description |
|-----|------------------|
| 1 | Wood Truss |
| 2 | Ceiling Bracket |
| 3 | 1/4" Lag Screw |
| 4 | Swivel Pulley |
| 5 | 3/32" Drop Cable |

Figure 37. Pulley Installation (End View)



Power Winch Installation

1. Bolt the Power Winch, fully assembled, to a 2"x8" (50x200 mm) board that will span at least 3 rafters, using 5/16-18 hardware supplied in the Hardware Package. The brake mechanism will extend toward one side.

Install a Cable Hook, supplied in Hardware Package, between the mounting bolt and Power Winch frame, as shown in **Figure 38**.

Key Description

- | | |
|---|---|
| 1 | Power Winch |
| 2 | Cable Hook |
| 3 | 2"x8" (50x200 mm) board that spans (3) three rafters. |
| 4 | 5/16-18X2-1/2" Bolt, washer, and lock nut. |

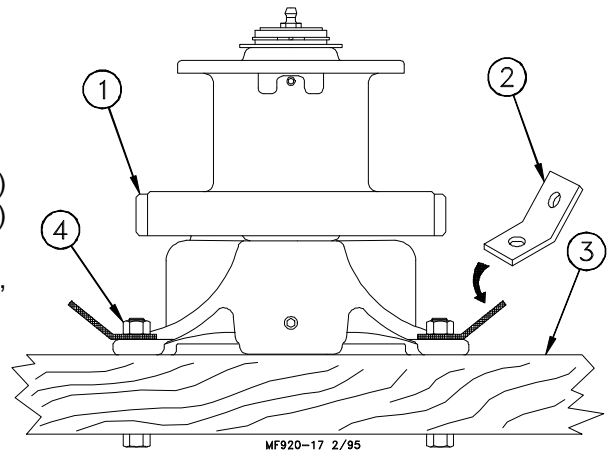


Figure 38. (End View)

2. Attach the 2"x8" (50x200 mm) board (with the Power Winch secured) to the ceiling at the center of the feeder line. See **Figure 30** on [page 29](#). The 2"x8" (50x200 mm) must be parallel to the line and must span at least 3 rafters.

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. However, the Winch Drum must be directly in line with where the main cable is to be installed.

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 fasteners.
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 39**.

Key Description

- | | |
|---|-----------------------------------|
| 1 | Winch Drum Relief with set screw. |
| 2 | 3/16" Winch Cable |
| 3 | Drum Rotation |

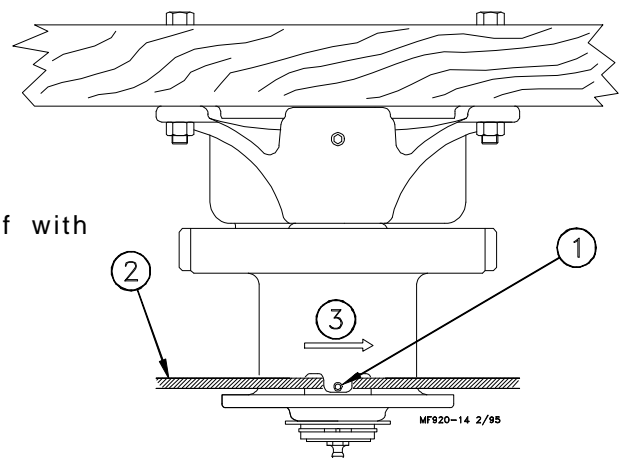


Figure 39. (End View)

- 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 40**.

Key	Description
1	Drum Rotation

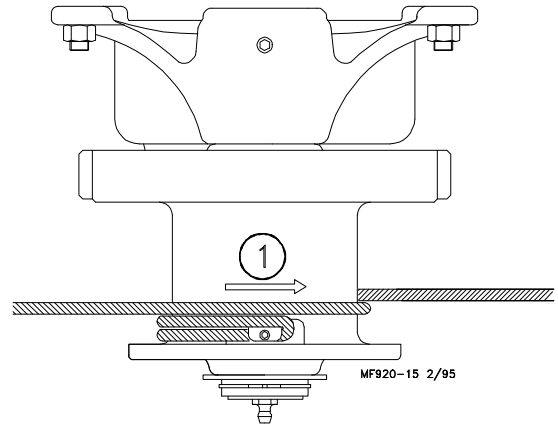


Figure 40. (End View)

Drop Installation

- Attach a 3004 Pulley to each hook.
- Thread the end of the 3/32" or 1/8" cable through the pulley toward the winch. Clamp this end to the 3/16" winch cable about 6" (150 mm) from the last pulley, using a 3/16" cable clamp. See applicable figure; **Figure 32 or 37**.
- Allow enough cable length for installation of the Adjustment Leveler.

Sufficient cable is included to provide "throwbacks" on drops located beneath and near the winch. Detail "A" in **Figure 30** shows a "throwback" cable arrangement.

- 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 cable to maintain tension on the line.

Hopper Assembly Procedure

The 200# or 100# Hopper may be used with the Model C, C2, G, and H2. Refer to applicable instructions.

200# Hopper

Loosely, assemble the 200# Hopper Side Panels, as shown in Figure 41, using 1/4-20 bolts and 1/4-20 hex nuts (supplied in Hardware Package). The Hopper should be assembled so that the "CHORE-TIME" decals are on opposite sides of the hopper.

Secure the Boot Hangers to the bottom of the hopper, using 1/4-20 hardware.

Install the Hanger Bracket Assembly *perpendicular* to the feeder line, using 1/4-20 hardware.

Secure Adjustment Brackets to Hanger, using 5/16-18 bolt and locknut, supplied.

With the Hopper assembled, less the cover, tighten the hardware.

A Cable Assembly (including 20' or 6 meters of cable, a Sleeve Clamp, and a 5/32" Thimble) is supplied to suspend the hopper. Figure 42 shows the suspension components assembled. The pin should be located in the center hole of the Hanger.

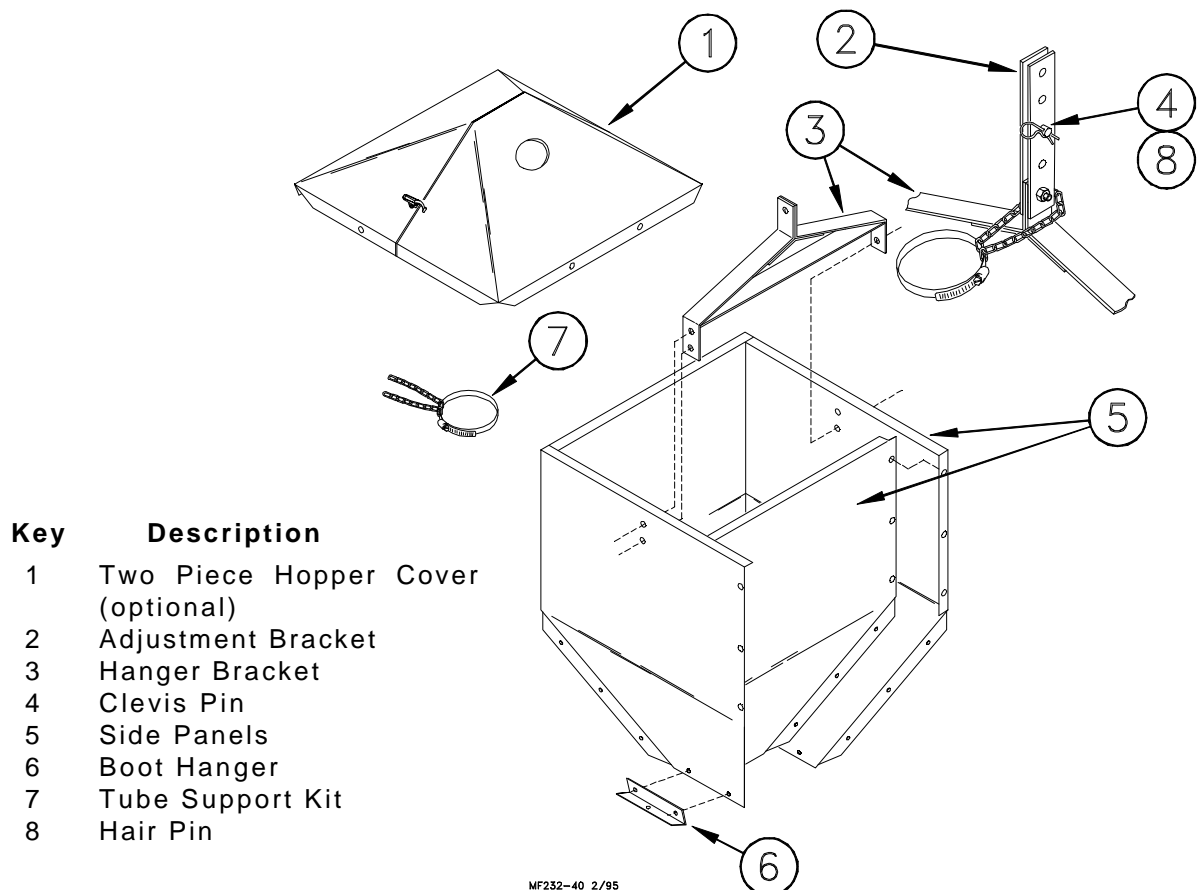


Figure 41. 200# Hopper Assembly Procedure

Key	Description
1	Clevis Pin and Hair Pin
2	Cable Assembly
3	Adjustment Bracket
4	Hanger Bracket

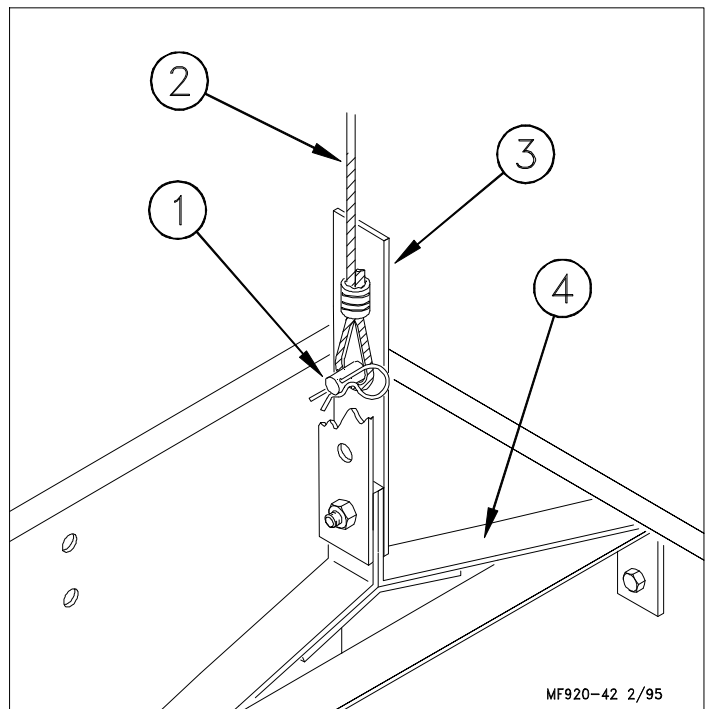


Figure 42. 200# Hopper Suspension components.

Figure 43 shows the assembled hopper with suspension components installed.

Suspend the hopper, as shown in Detail A (Figure 29) by routing the cable around the Full Line Suspension Pulley and fastened to the main cable, using (2) cable clamps.

To install the boot on the hopper, slide the boot onto the hangers built into the bottom of the hopper. Use cotter pins, supplied, to secure the boot to the hopper.

The Hopper Cover, shown in Figure 41, is optional and must be ordered separately, if desired.

Secure the half of the cover with the tube opening on the top of the hopper. The other half of the cover will latch in place.

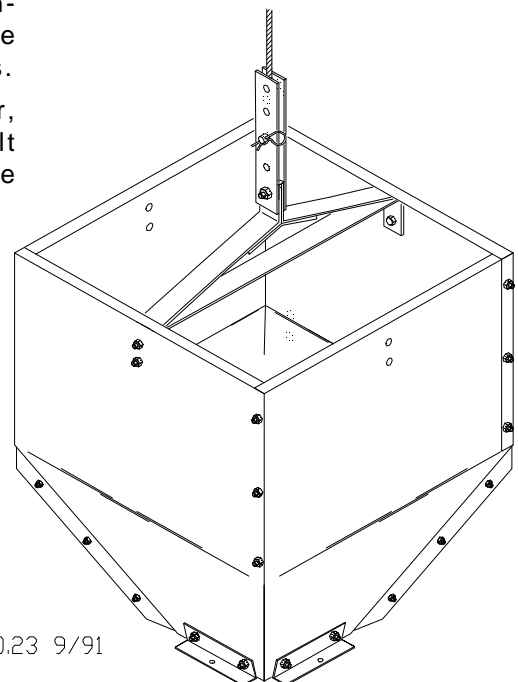


Figure 43. Assembled 200# Hopper w/o Cover.

100# Hopper

Loosely, assemble the 100# Hopper Side Panels, as shown in Figure 44, using 1/4-20 bolts and 1/4-20 hex nuts (supplied in Hardware Package).

Assemble the Hopper Hangers, as shown in Figure 44.

Secure Adjustment Brackets to Hanger, using the 5/16-18 bolt and nut, supplied.

Locate the (2) Hopper Hangers (assembled) in the Side Panel corners, as shown, and secure using 1/4-20 hardware supplied.

With the Hopper assembled, less the cover, tighten the hardware.

A Cable Assembly (including 20' or 6 meters of cable, a Sleeve Clamp, and a 5/32" Thimble) is supplied to suspend the hopper. Figure 45 shows the suspension components assembled. The pin should be located in the center hole of the Hanger.

The 100# Hopper may be ordered with the optional Hopper Cover.

Secure the half of the cover with the tube opening on the top of the hopper. The other half of the cover will latch in place.

Install the Tube Support Kit, as shown in inset (Drop Tube supplied with the fill system).

Key	Description
1	Hopper Cover (w/o hole)
2	Hopper Cover (w/ hole)
3	Tube Support Assembly
4	Hopper Hanger
5	Cotter Pin
6	Adjustment Bracket
7	Hair Pin
8	Hopper Side
9	Switch Mount Bracket
10	Boot Hanger

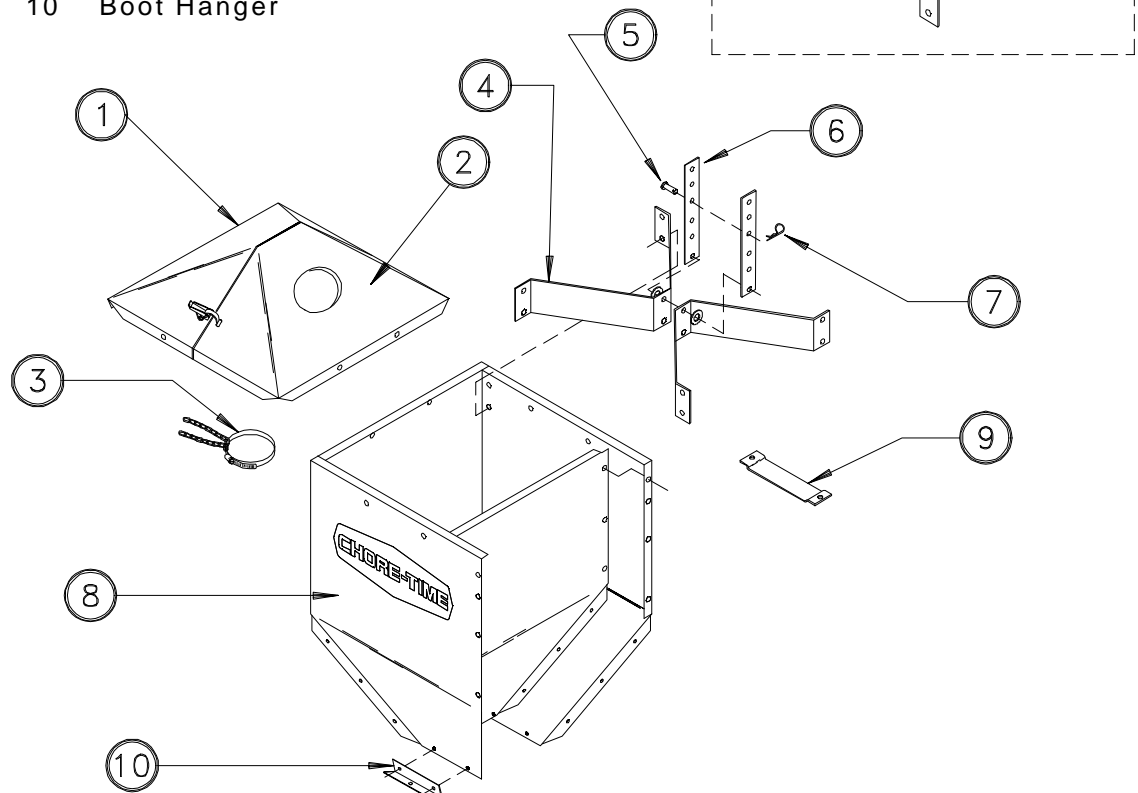


Figure 44. 100# Hopper Assembly Procedure

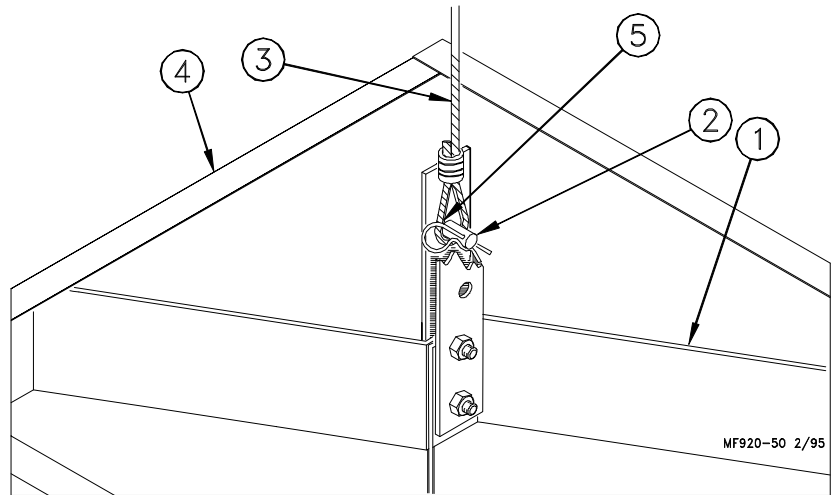


Figure 45. 100# Hopper Suspension components.

Key	Description
1	Hopper Support
2	Clevis Pin and Hair Pin
3	Cable Assembly
4	Side Panel
5	Thimble

Suspend the hopper, as shown in Detail A (Figure 30 on page 29) by routing the cable around the Full Line Suspension Pulley and fastened to the main cable, using (2) cable clamps.

To install the boot on the hopper, slide the boot onto the hangers built into the bottom of the hopper. Use cotter pins, supplied, to secure the boot to the hopper.

Secure the Hanger Bracket in the Hopper, using 1/4-20 hardware supplied. Use the holes in the Hanger Bracket as a template for drilling .312 dia. (8 mm) holes in the Side Panels. The Hanger Bracket should be located so that when the Hopper Level Control Switch is installed, it is located near the center of the hopper body.

The Hopper Cover, shown in Figure 44, is optional and must be ordered separately, if desired.

Secure the half of the cover with the tube opening on the top of the hopper. The other half of the cover will latch in place.

Feeder Line Assembly & Suspension

Feeder Pan and Tube Assembly Process

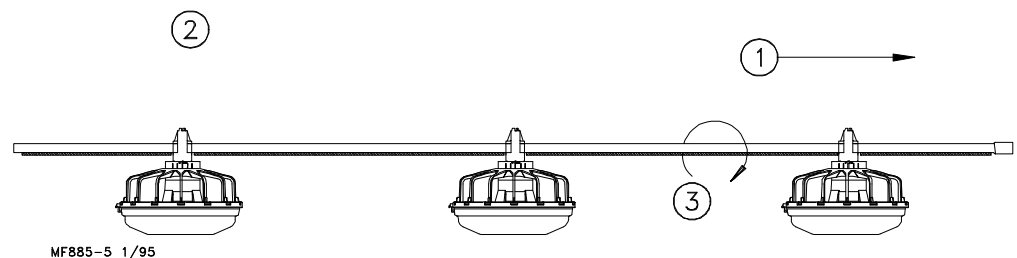
1. Slide one Feeder Pan Assembly per hole onto the auger tubes.

IMPORTANT: Install all the feeders on the tubes in the same orientation.

Model C, C2, & G Feeders: When sliding the feeders on the tubes, make sure the grill openings or hinges are on the same side of the tube.

Model H2: The single strut of each feeder should be on the same side of the auger tube throughout the system. Additionally, **if Chutes or Collars are to be used with the Model H2 Feeders, they must be installed at this time.** Feed Chutes and Flood Colors must be installed as specified on page 25.

2. Rotate the auger tubes so that the seam is down, this holds the Pan Assemblies in place on the tubes. See Figure 46.



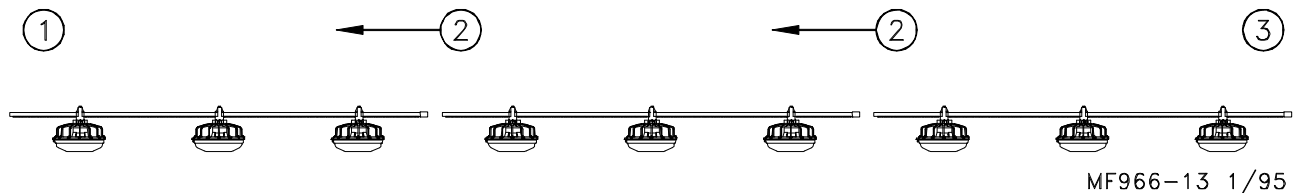
Key Description

- 1 Hopper
- 2 Slide (1) feeder over each outlet hole.
- 3 With the feeders in their appropriate positions, rotate the tube to hold the feeders in place.

Figure 46. Assemble Feeders on Tubes (Side View)

Assemble and Suspend the Feeder Line

1. The auger tubes and feeders may be laid out end to end in approximately the final location of the line. **The expanded end of each tube should be toward the Hopper end of the line.** See Figure 47.
2. Connect the individual feeder tubes together by inserting the straight end of one tube as far as possible into the belled end of the next tube.



Key Description

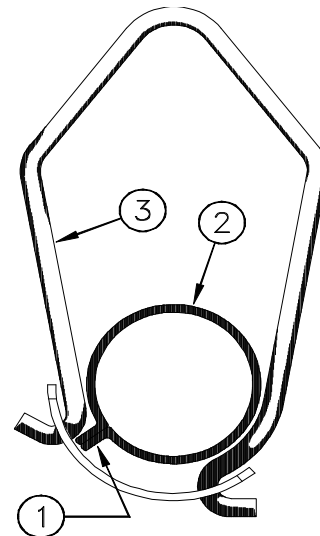
- 1 Control Unit end of the feeder line.
- 2 Direction of feed flow.
- 3 Feed Hopper end of the feeder line.

Figure 47. Assemble Feeders on Tubes (Side View)

3. To achieve total feed drop out all along the system, the mark "CONT" should be centered at the crown of the tubes and all the Hangers should be installed as shown in Figure 48.

If desired, the tubes may be indexed, allowing only partial feed drop out of the tubes closest to the hopper. Refer to page 52 for tube indexing instructions.

Key	Description
1	Tube Seam
2	Auger Tube
3	Hanger



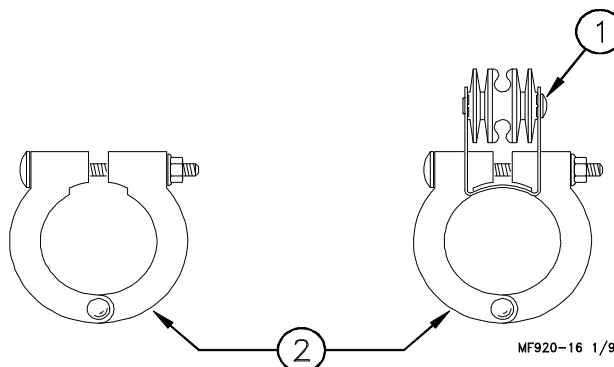
MF920-44 1/95

Figure 48. Hanger Installation. (View: Cross section of tube, facing the hopper, showing appropriate Hanger installation for tube in the "CONT" setting.)

4. Place a Tube Clamp Assembly or Clamp/Anti-Roost Bracket at each joint. Figure 49 shows the standard Clamp and Clamp/Anti-Roost Bracket.

Systems using 9' or 10' tubes require a Clamp/Anti-Roost Bracket at every **fifth** joint.

Systems using 12' tubes require a Clamp/Anti-Roost Bracket at every **fourth** joint. All other joint in the system use the standard Tube Clamp Assembly.

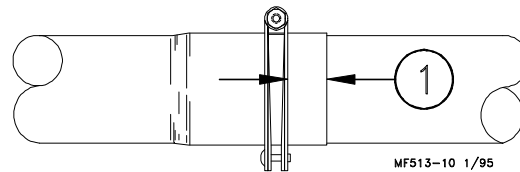


MF920-16 1/95

Key	Description
1	Anti-Roost Bracket
2	Standard Clamp

Figure 49. Tube Clamps (Side View).

Continue down the entire length of the feeder line so that every joint is secured with a standard Clamp or Clamp/Anti-Roost Bracket. Figure 50 shows the proper clamp location on the tube joint. Do not tighten the clamp at this time.



Key	Description
1	1/4" (6 mm)

Figure 50. Clamp Installation (Side View).

5. Install the Hangers on the trough at the 8' (2.4 m) spacings determined by the suspension drop lines. Figures 48 and 51 show the proper installation of the Hanger Assembly. Make sure the outlet drop hole is downward when the Hangers are installed, otherwise feed will not be allowed to drop into the feeder pan.

Key	Description
1	Cable Lock
2	Auger Tube
3	Hanger

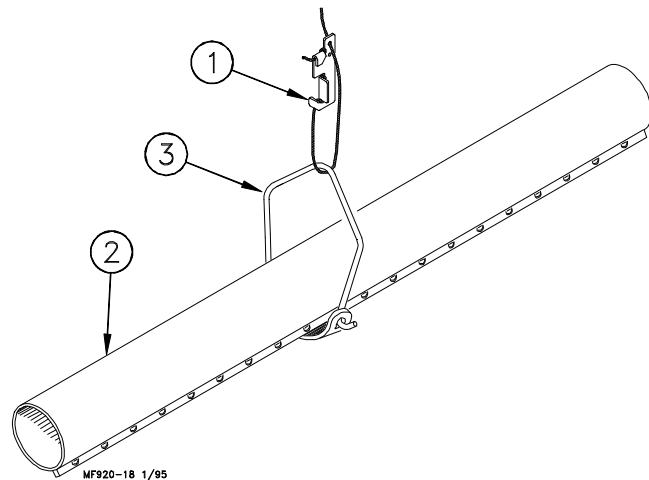
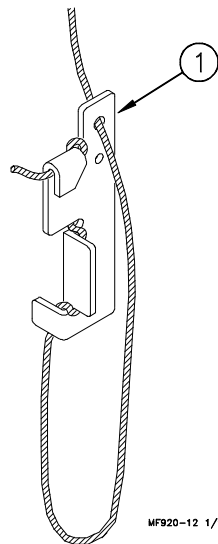


Figure 51. Hanger Installation

6. Install Adjustment Leveler within 6" (152 mm) of feeder line. Figure 52 shows the proper cable routing around the Adjustment Leveler.



Key	Description
1	Use the large hole for 1/8" (3 mm) drop cable. Use the small hole for 3/32" (2 mm) drop cable.

Figure 52. Cable Lock Threading

7. Following the installation of all drops, check drop cables before raising feeder line. Cable must be tracking properly on all pulleys before raising the feeder line.
8. Raise the feeder line to a convenient working height.
9. With the feeder line suspended, measure from the floor or ceiling to the auger tubes to level the system.
10. Before tightening each clamp;
 - make sure each tube is level (not sagging, sloping, etc.).
 - make sure straight end of each tube is fully inserted in belled end of next tube.
 - if providing total drop out, tubes should be rotated so that "CONT" is on crown of tube.
 - if indexing tubes, refer to indexing section on page 52.
 - make sure the clamps are located, as shown in Figure 50.

Finally, tighten the Tube Clamps on the feeder tubes. Clamp the joints securely, but do not crush the tubes.

End Control Unit Assembly

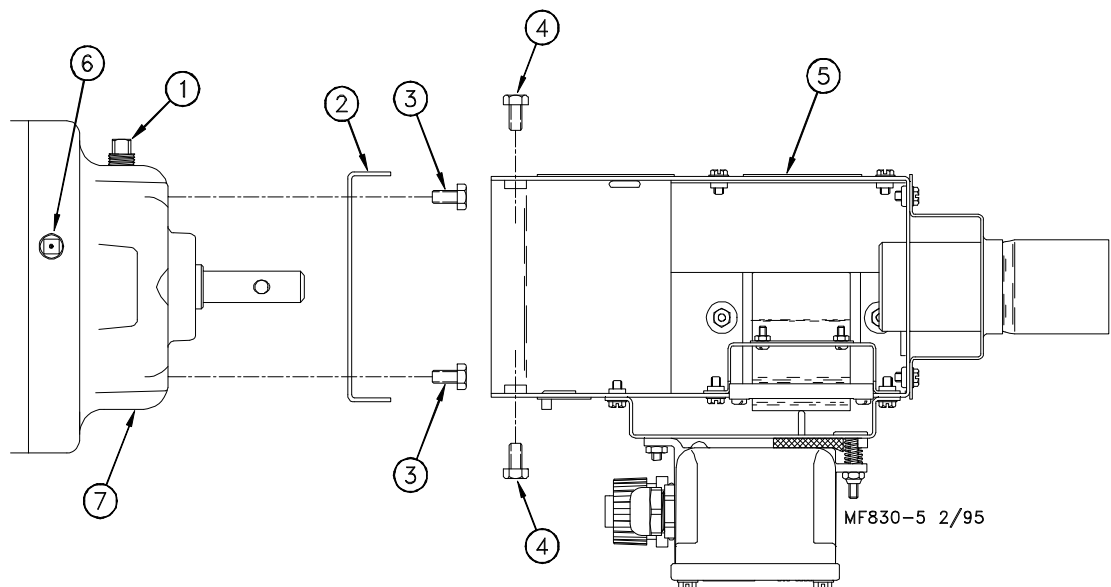
The Control Unit must be at least 10 feet (3 m) from the end of the building to allow birds access around the end of the feeder line.

Assemble the End Controls to the Power Units according to the instructions below and Figure 53.

1. The Anchor Plate is shipped secured to the Control Unit using bolts. Remove the Anchor Bracket.
2. Bolt the Anchor Bracket to the Power Unit using the (4) bolts (items #3) in the front of the gearhead.

The angled end of the Anchor Plate should be installed toward the bottom of the Power Unit.

3. Bolt the Control Unit Body Assembly to the Anchor Bracket, using 10-24 bolts (items 4). Remove the Top and Bottom Closures on the Control Unit to fasten auger to the power unit.
4. Connect the power/control unit to the feeder line using a clamp/anti-roost bracket. It may be necessary to place a temporary support under the motor until the feeder line is suspended.
5. Remove plastic shipping plug and replace with vented plug, supplied.



Key	Description
1	Pipe Plug
2	Anchor Bracket
3	5/16-18 Bolts
4	10-24 Bolts
5	Control Unit Body
6	Replace Shipping Plug with Vent Plug.
7	Power Unit/Gearhead

Figure 53. Control Unit Installation (Top View)

Anti-Roost Installation

1. Unroll the bulk anti-roost cable. Note: If the cable is unrolled as shown in Figure 54, taking 5 loops of the coil with one hand, then changing hands to remove 5 loops as it is unrolled, it will lie flat during installation.

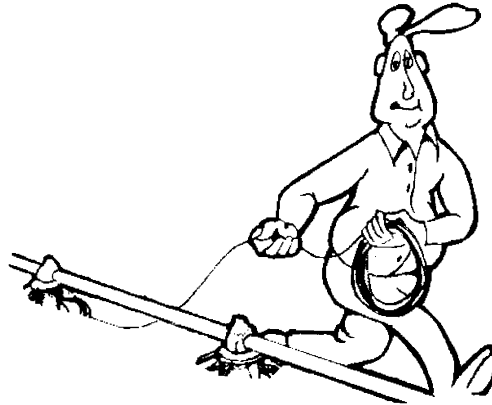


Figure 54. Unrolling the Cable

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 1/16" cable clamp as shown in Figure 55.

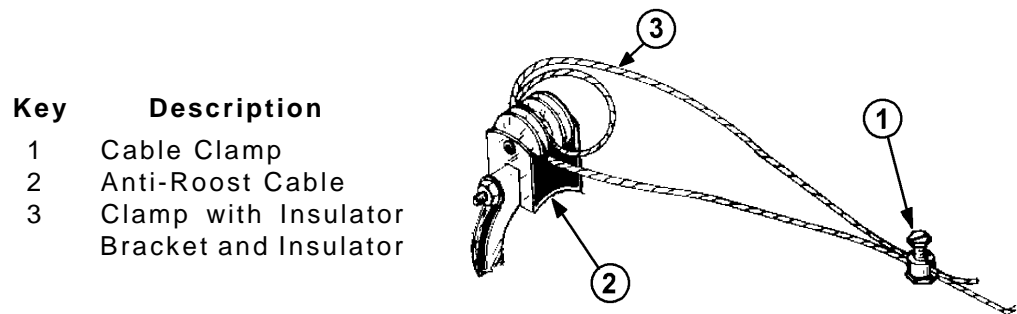


Figure 55. Anti-Roost Cable at the Hopper

3. Insert the cable in the insulator on the top of each Grill Support between the hopper and the next anti-roost bracket.
4. Attach a spring in the center groove at the second anti-roost bracket and cut the cable at this point. See Figure 56.

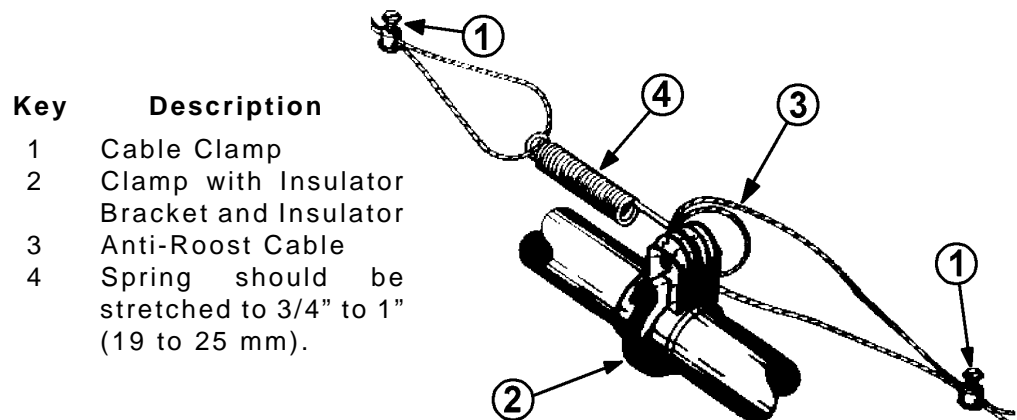
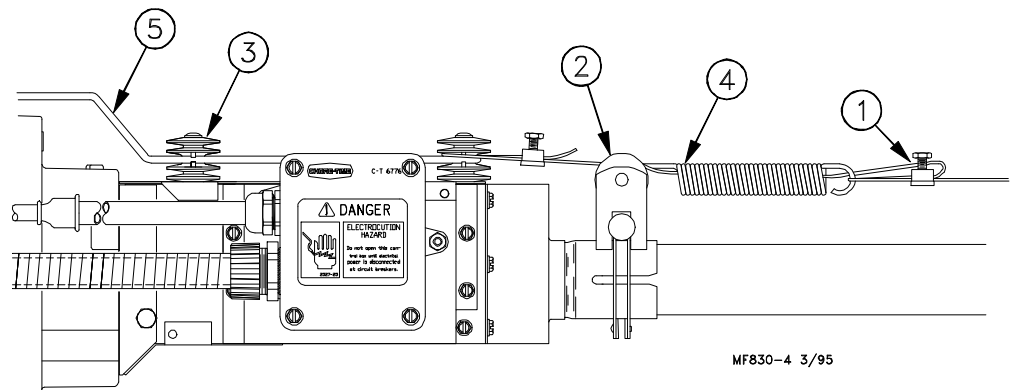


Figure 56. Anti-Roost Cable Mid-Line Connection

5. Thread the ends of the cable through the end of the spring. Pull the cable tight so that there is 3/4" to 1" (20 to 25 mm) of stretch in the spring. Clamp the cable to form a loop and cut off any excess. See Figure 56.
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 56.
7. Run the cable to the next insulator, attach a spring in the center groove at the anti-roost bracket and cut the cable at this point. The cable should be positioned in the insulator built into the top of each grill support along the feeder line.
8. Repeat this installation until the anti-roost cable is installed along the entire feeder line.
9. At the control unit, after clamping the cable to the spring, cut the cable about 8" to 10" (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 57.



Key	Description
1	Clamp
2	Clamp with Anti-Roost Bracket and Insulator
3	Insulator
4	Spring should be stretched to 3/4" to 1" (19 to 25 mm).
5	Wire Form

Figure 57. Anti-Roost Installation at the Control Unit

10. Install the wire form on the control unit insulators. Be sure the guard snaps into the retainers molded into the insulators. See Figure 57.
11. Install the Poultry Trainer or Line Charger, as shown in Figure 58 or 59.

The Poultry Trainer is used to power all Anti-Roost lines in a house. See Figure 58.

The Line Charger is used to power individual Anti-Roost lines in a house. See Figure 59.

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.

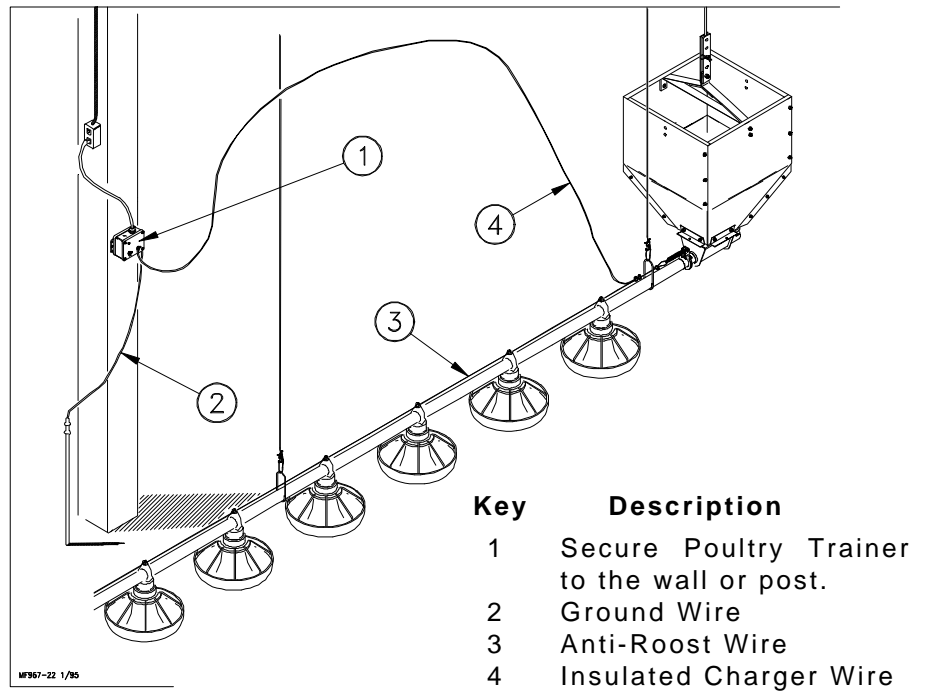


Figure 58. Poultry Trainer Installation

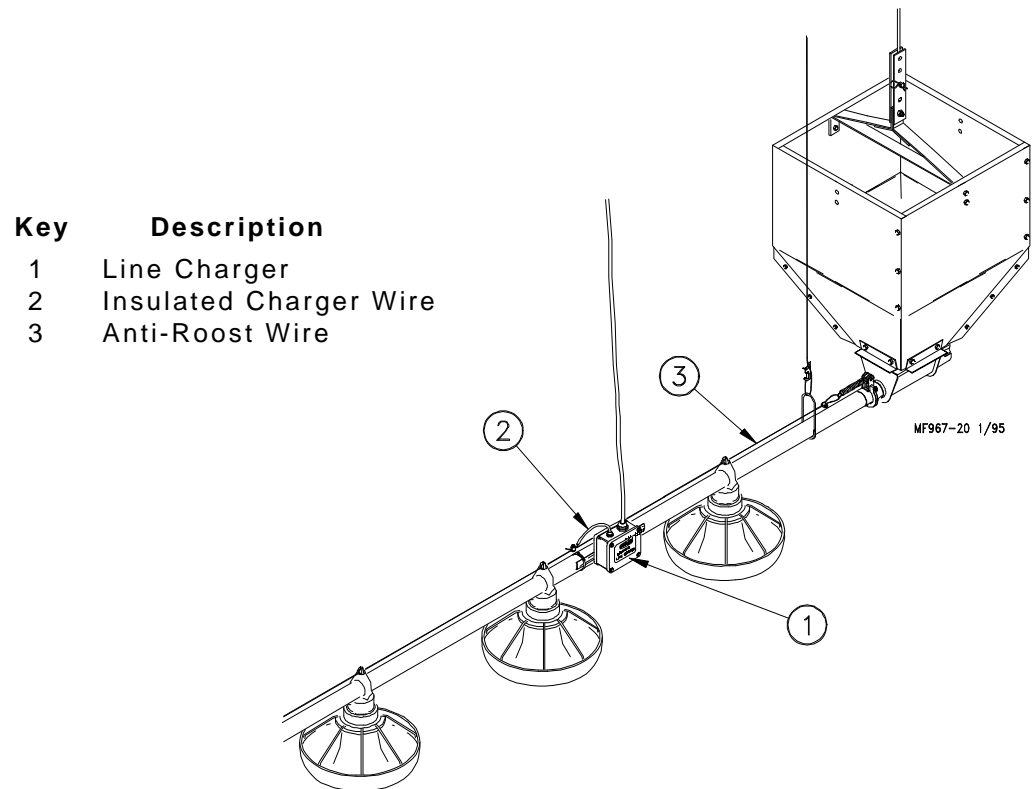


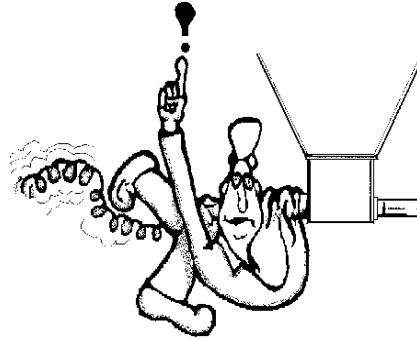
Figure 59. Line Charger Installation

12 The anti-roost system must be on a separate electrical circuit, allowing the system to be disconnected by a switch near the door.

Remember, the Anti-Roost System should be grounded through the poultry trainer.

Auger Installation

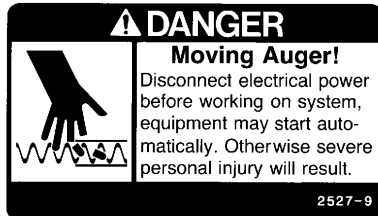
Note: Use extreme caution when working with the auger. The auger is under tension and may spring causing personal injury. Wear protective clothing, gloves, and safety glasses when working with the auger.



BE CAREFUL WHEN WORKING WITH THE AUGER!

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

Cut the leading 18" (450 mm) 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 the Auger Brazing section of this manual.



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 feet (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 the Brazing the Auger section in this manual.
4. Slide the Drive Tube and flat washer over the output shaft on the Power Unit, as shown in Figure 60.
5. Continue installing auger until the auger reaches the Control Unit end of the feeder line.

5. Attach the auger to the output shaft of the Power Unit, as shown in Figure 60. Use the Drive Block to secure the auger to the Output Shaft.

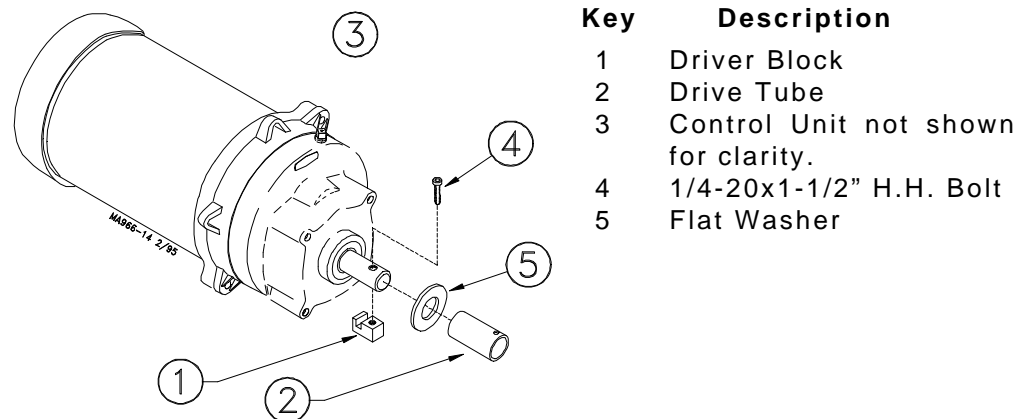


Figure 60. Auger Driver Components.

6. 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 61.

Key	Description
1	Mark the <i>relaxed</i> auger at the end of the boot.

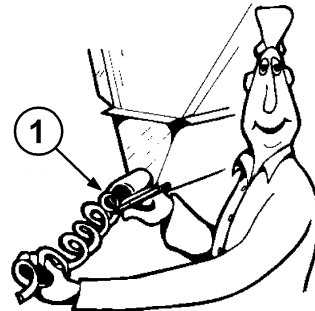


Figure 61. Measure the Auger from the *relaxed* position.

7. 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 that the pliers rest against the end of the boot. See Figure 62.

Use a hacksaw or bolt cutters to cut the auger at the stretched auger mark.

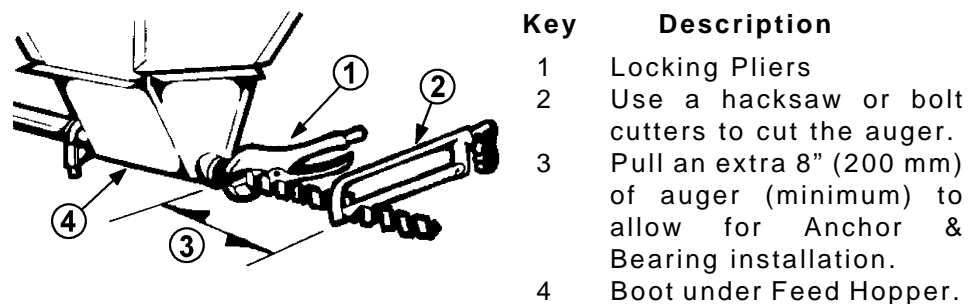


Figure 62. Cut the Auger with required stretch.

8. Insert the Anchor Assembly into the auger until it touches the weld at the back of the anchor. Do not allow the auger ride up over the weld. Tighten the setscrew in the center of the anchor. **THIS SETSCREW MUST BE TIGHT.**



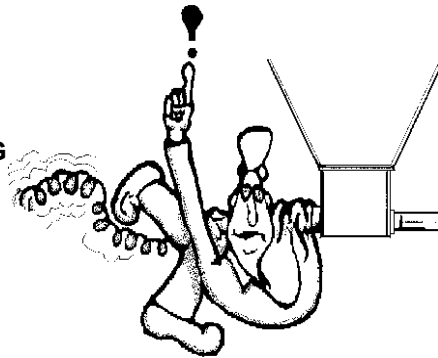
9. **Carefully** remove the locking pliers while holding onto the Anchor and Bearing Assembly and auger securely.

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.

10. Place the cannonball in the boot.

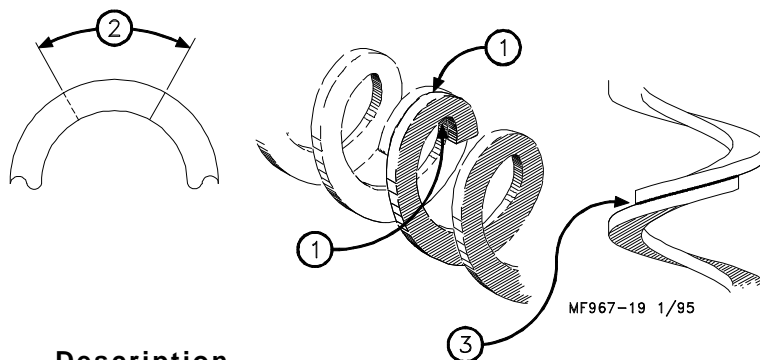
**BE CAREFUL WHEN WORKING
WITH THE AUGER!**



Auger Brazing

The auger should be brazed if it is necessary to splice or lengthen it. A bronze, flux coated rod is recommended.

The ends of the auger should butt against each other, **NOT THREAD INSIDE EACH OTHER**. See Figure 63. The joint should be well filled with no sharp edges or rough corners to wear against the tube. To align the auger for brazing, lay it in angle or channel iron and clamp it firmly in place. Use low heat. Allow the joint to air cool; rapid cooling will cause the auger to become brittle.

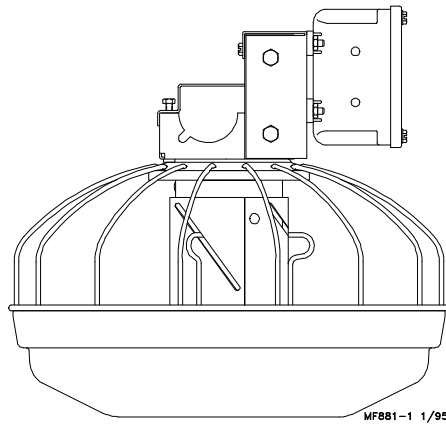


Key	Description
1	Braze here
2	Lap the auger ends approximately 1" (25 mm).
3	Butt the auger ends together. DO NOT thread the auger together.

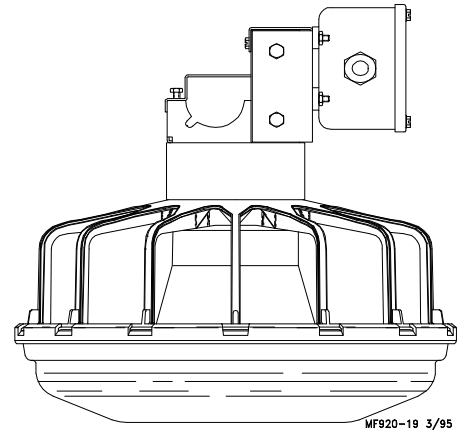
Figure 63. Auger Brazing.

Intermediate Control

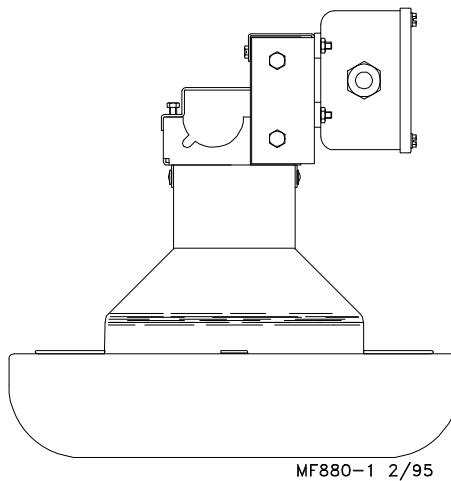
Intermediate Control Units are available for the Model C, C2, G, and H2 Feeders. The Intermediate Controls are shown in Figure 64.



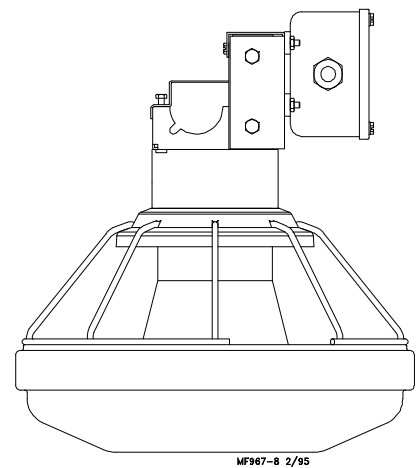
Model C Intermediate Control



Model C2 Intermediate Control



Model H2 Intermediate Control



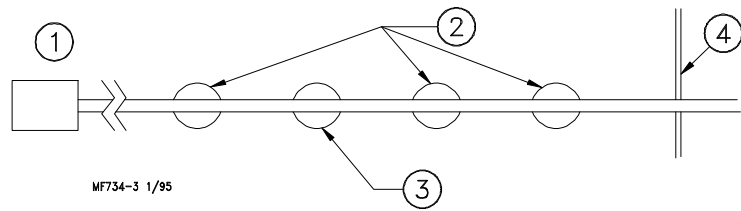
Model G Intermediate Control

Figure 64. Intermediate Control Units (Side Views)

The Intermediate Control makes it possible to operate the feeding system when birds are confined away from the End Control Unit. Chore-Time recommends placing the Intermediate Control Feeder at least 2 pans away from the curtain or partition. See Figure 65.

1. **New Feeder Lines:** Leave one feeder pan assembly off the feeder tube at the point where the Intermediate Control needs to be placed. The feeder line can be assembled and suspended before attaching the Intermediate Control; or the Intermediate Control may be attached to the feeder tube when the other pans are installed.

Existing Feeder Lines: Cut the Grill Support and remove the feeder pan at the location where the Intermediate Control will be installed.

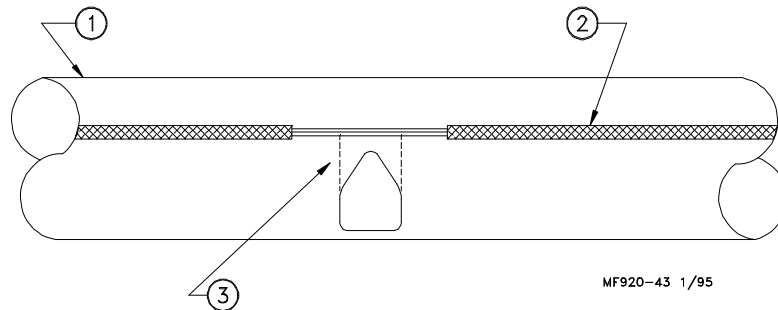


Key	Description
1	Hopper at the end of the feeder line.
2	Feeder Pans
3	Intermediate Control Unit
4	Curtain

Figure 65. Intermediate Control Location Diagram (Top View)

2. Enlarge the outlet hole for the Intermediate Control, plus (2) outlet holes in front of Intermediate Control.

See Figure 66 for recommended size and placement. Use hacksaw and tin snips to enlarge hole size. Be sure there are no burrs inside the tube to catch the auger.



Key	Description
1	Auger Tube
2	Seam
3	Use a hacksaw to enlarge outlet holes.

Figure 66. Enlarging Outlet Holes (Side View)

3. Install the Intermediate Control:
 - a. Remove the two hex head screws on the control top.
 - b. Lift off the control top.
 - c. Cradle the feeder tube in the control housing. The feeder tube may have to be turned slightly to allow the pan to hang straight.
 - d. Clamp the control in place by inserting tabs on the control top into the slots on the control body. Install and tighten the two hex head screws previously removed.
4. Install a toggle switch, out of reach of the birds, to disconnect power to the Intermediate Control. This allows the Intermediate Control to serve as standard feeder when not used as a control feeder.
5. Wire the Intermediate Control as shown in the wiring diagram section of this manual.

Indexing the Feeder Line

The Roll Formed Tube can be indexed using the markings on the belled end of each tube as shown in Figure 67.

Note: This form of indexing is approximate and allows the grower to provide a moderate amount of uniformity in feed drop out.

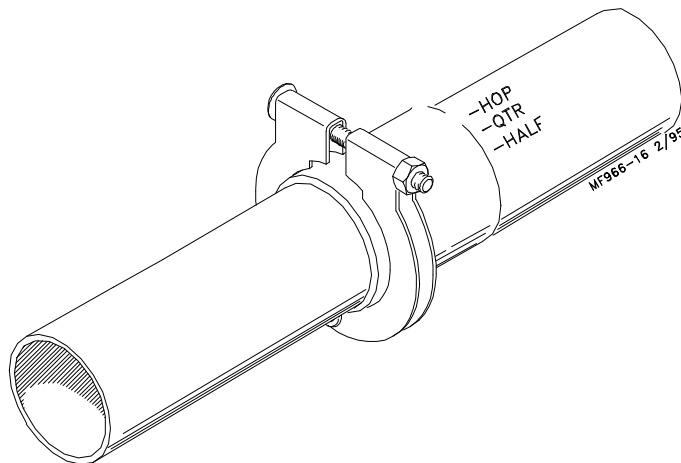


Figure 67. Indexing the Feeder Line

1. If full feed dropout is desired at all outlets, all the tubes should be positioned so the "CONT" marking on the tube is at the crown or top of all tubes in the line. For partial house brooding using the Intermediate Control Unit, all tubes should be set in this position.

Model H2 systems should always be set on the "CONT" mark.

2. If some feed carry over is desired, the tubes can be indexed so that outlets at the hopper end of the line receive partial dropout, and full dropout occurs at the control unit end of the line. This is especially useful on longer feeder lines.

To index the tubes:

- A. Start at the hopper.
- B. Position the feeder tubes in the first 1/4 of the line so that "HOP" setting is placed at the top of the tube.
- C. The second quarter of the line should be indexed with "QTR" marking at the crown of the tube.
- D. Index the third quarter so that the "HALF" is positioned at the top of the feeder tube.
- E. The last quarter of the line (control unit end) should be indexed with "CONT" marked at the top of the tube. This allows complete dropout in this portion of the feeder line.

Meal-Time Feeding Guidelines

Chore-Time Programmed Meal-Time Feeding is recommended for use with Model C, C2, G and H2 Feeders. Basically, it means the birds are fed meals and are allowed to clean up the feed between meals. This stimulates appetite, reduces protein excretion, and, when combined with good poultry management, can yield a heavier bird with improved feed conversion.

Chore-Time Programmed Meal-Time Feeding does not limit or restrict feed. Only the numbers and lengths of feedings per days are regulated - not the amount of feed.

Based on working experience, Chore-Time has set down the following guidelines. Chore-Time emphasizes that these are GUIDELINES. Individual situations will require monitoring and judgment to determine best performance on the Chore-Time Programmed Meal-Time Feeding system.

1. Start birds with pans on the floor. Empty the Control Unit pan several times a day so the feeder will run. The sound of the feeder will alert the birds and they will use the pans more quickly.
2. Model C2, G, and H2 only: Set the Feed Windows in open or brood position to begin feeder operation.

Model C only: Set the Feed Level Tube at the fifth hole from the bottom, for both crumbles and pelleted feeds.

3. Adjust the feeder height weekly. At 3 weeks, the feeder should be high enough so that birds will not stand with one foot on pan lip but still will be able to reach feed.
4. At three weeks, begin the Meal-Time Feeding Program. The following is an example of a Meal-Time program.

Birds should be fed 4 meals per day - at 7 A.M./ at 1 P.M./ at 7 P.M. / and at 1 A.M.

Try to be present during the feedings. Use the "Running Time" chart on this page as a guide for determining length of running cycles.

5. After the Chore-Time Programmed Meal-Time Feeding is begun, determine whether running times need to be adjusted. Remember:

AGE OF BIRDS IN WEEKS	LENGTH OF FEEDER LINE				
	LINES TO 140 FT (43 M)	150 FT TO 270 FT (46 M) (82 M)	280 FT TO 390 FT (85 M) (119 M)	400 FT TO 490 FT (122 M) (149 M)	500 FT TO 590 FT (152 M) (168 M)
3 TO 4	15 MIN.	30 MIN.	45 MIN.	1 HOUR	1 HOUR & 15 MIN.
4 TO 5	30 MIN.	45 MIN.	1 HOUR	1 HOUR & 15 MIN.	1 HOUR & 30 MIN.
5 TO 6	45 MIN.	1 HOUR	1 HOUR & 15 MIN.	1 HOUR & 30 MIN.	1 HOUR & 45 MIN.
6 TO 7	1 HOUR	1 HOUR & 15 MIN.	1 HOUR & 30 MIN.	1 HOUR & 45 MIN.	2 HOURS
7 TO 8	1 HOUR & 15 MIN.	1 HOUR & 30 MIN.	1 HOUR & 45 MIN.	2 HOURS	2 HOURS & 15 MIN.

1. Determine age of birds.
2. Determine the length of the feeder lines.
3. On the chart, using items determined in steps 1 and 2, find guidelines for running times PER MEAL, in hours and minutes.

ONLY LENGTHEN OR SHORTEN RUNNING TIMES. DO NOT DEVIATE FROM 4 FEEDINGS PER DAY.

The biggest cause of operator concern is usually when birds are without feed. If you are managing this concept for best results, the birds will be without feed. This maybe for as long as 2 hours depending on energy content of the feed.

6. Adjust running time weekly. The adjustment should be made on the same day each week. It may be convenient to adjust the feeder height at the same time.
7. At the end of the grow-out cycle, allow the birds to clean up feed in the pans. This will further reduce feed waste and reflect in good final results.

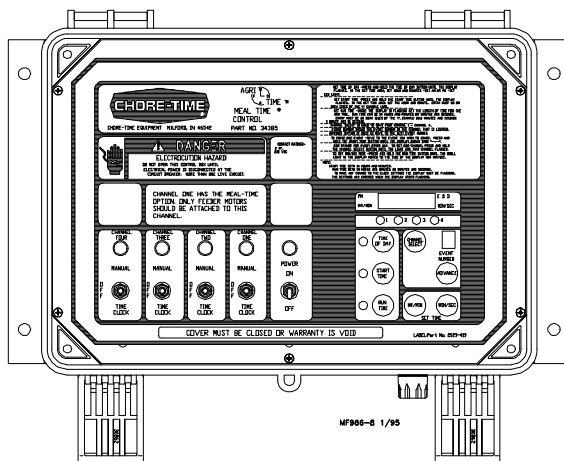
Following Chore-Time Programmed Meal-Time Feeding improves results and minimizes labor, energy usage, and wear on equipment while reducing feed cost per pound of gain and improved feed conversion.

Controlling the Feeders (optional equip.)

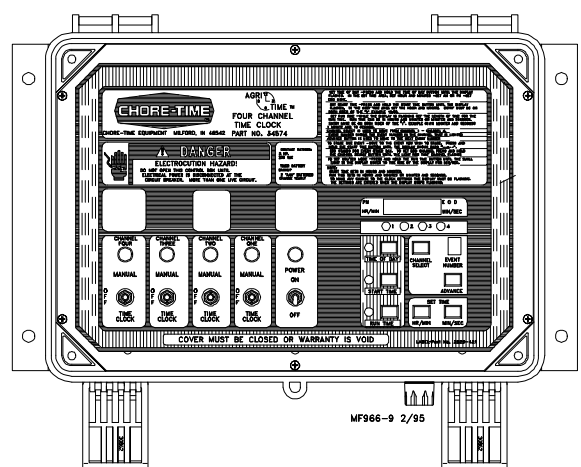
The Model C, C2, G, and H2 Feeding Systems may be controlled by the 34385 Control Panel **or** the 34574 Time Clock Control.

Both controls use the Agri-Time™ Time Clock. Refer to the instructions shipped with each control for information on installation, wiring, programming, and operating the controls.

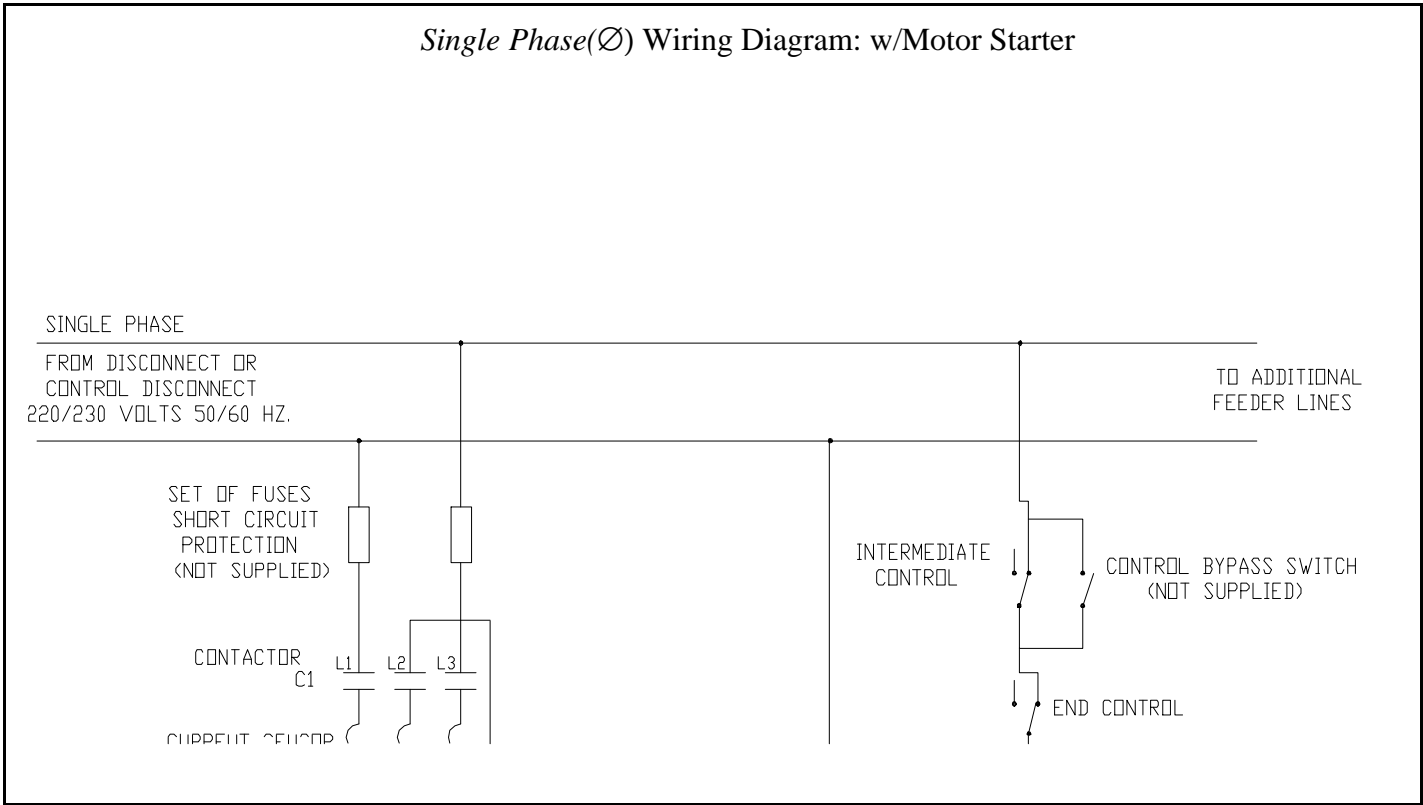
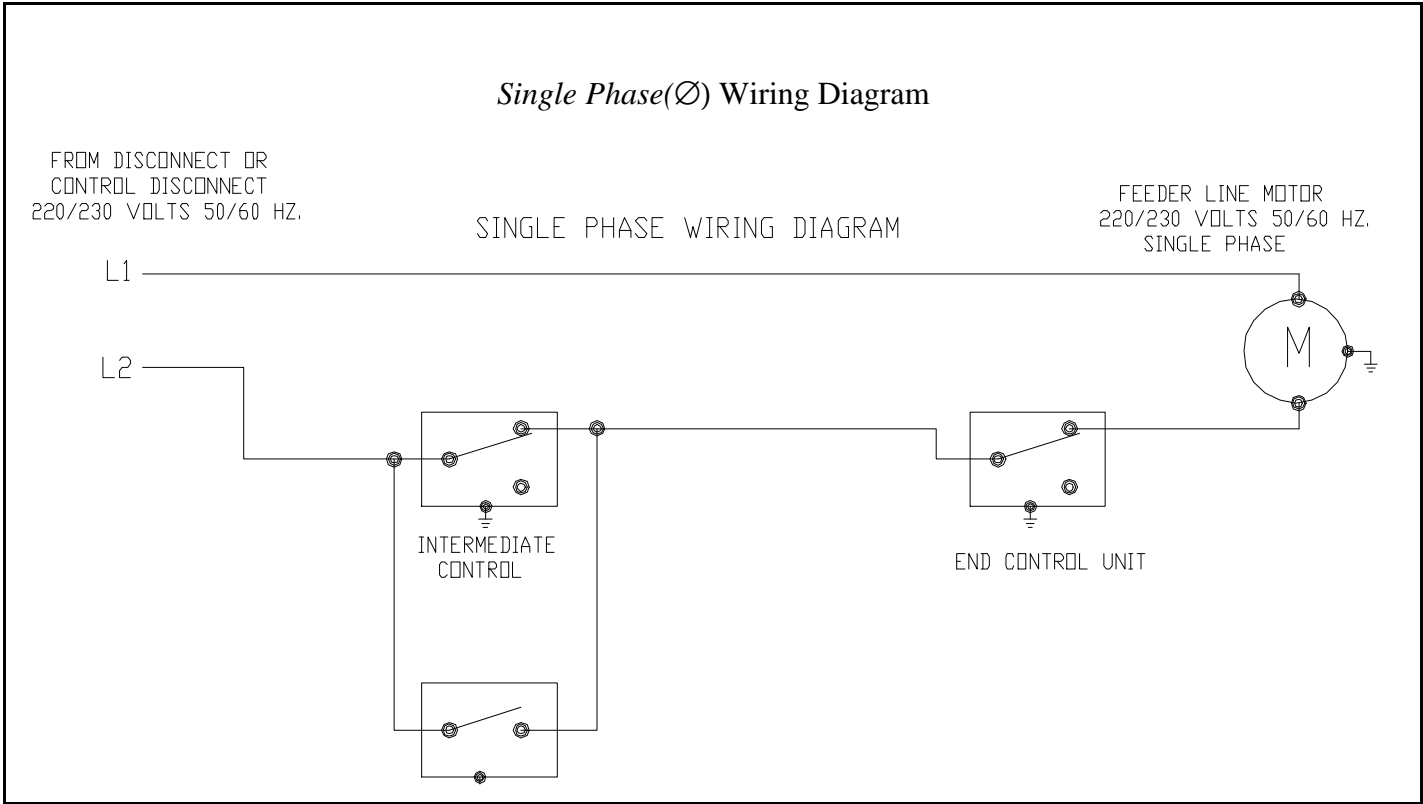
4-Channel Meal-Time Control



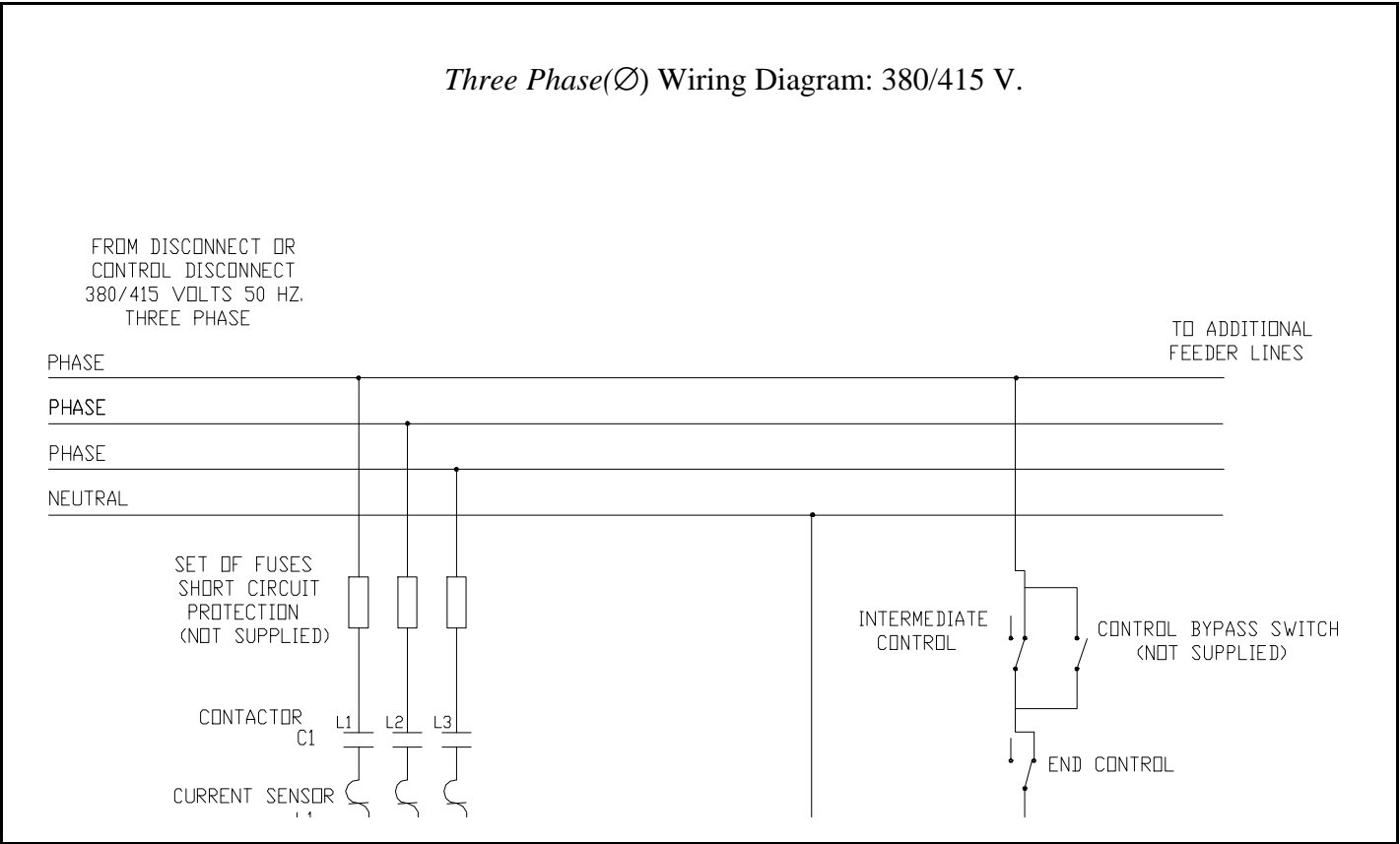
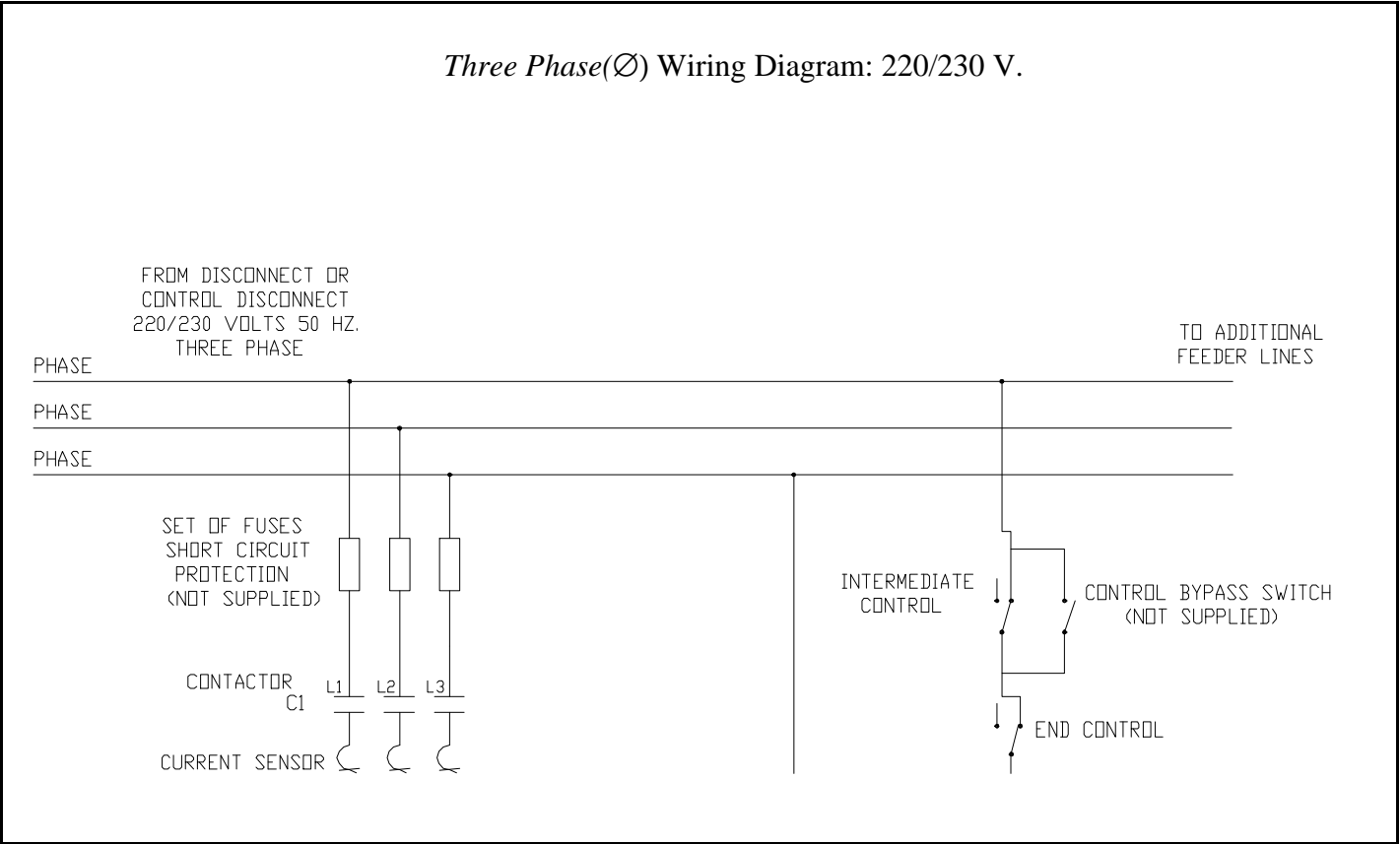
4-Channel Time Clock Control



End & Intermediate Control Wiring Diagrams: Single Phase(Ø)



End & Intermediate Control Wiring Diagrams: Three Phase(Ø)



When ordering parts, Remember...

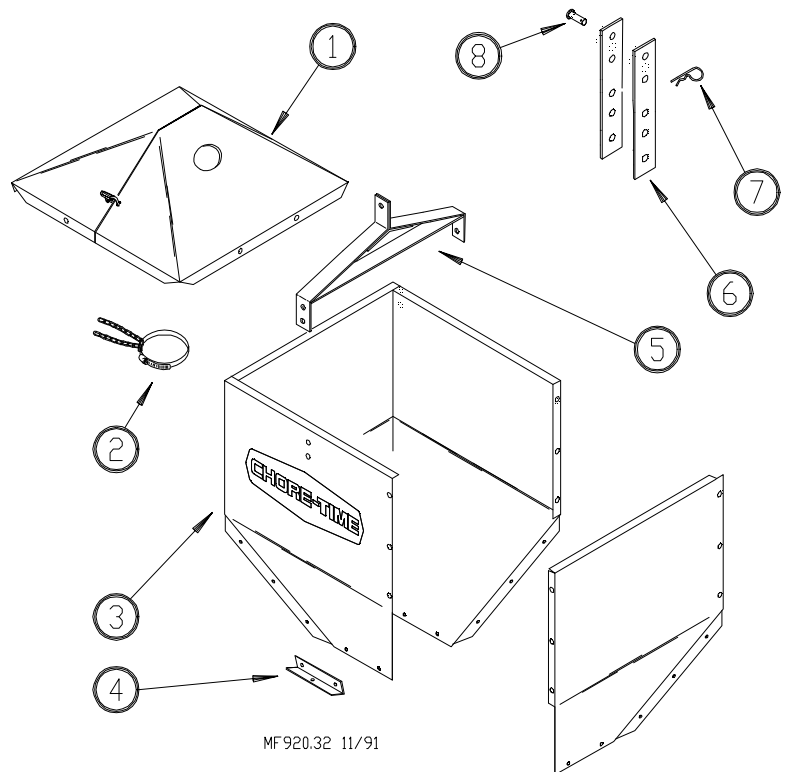
All claims for damages or shortages resulting from shipment must be filed with the carrier.

200# Hopper Components

<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1*	Hopper Cover Kit (optional)	28206
	Cover Half (Removable)	28208
	Cover Half (Stationary)	28207
2	Tube Support Assembly	14367
	Clamp	13948
	Chain	2128-1
3	Hopper Side (4 req'd)	2680
4	Boot Hanger	2671
5	Hanger Bracket Assembly	2681
6	Adjustment Bracket (2 req'd)	2706
7	Hair Pin	2664
8	Clevis Pin, 5/16 x 1"	2797-1

The 200# Hopper Assembly (w/o cover) may be ordered under Part No. 7941.

*Hopper Cover not included, must be ordered separately.



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100# Hopper Components

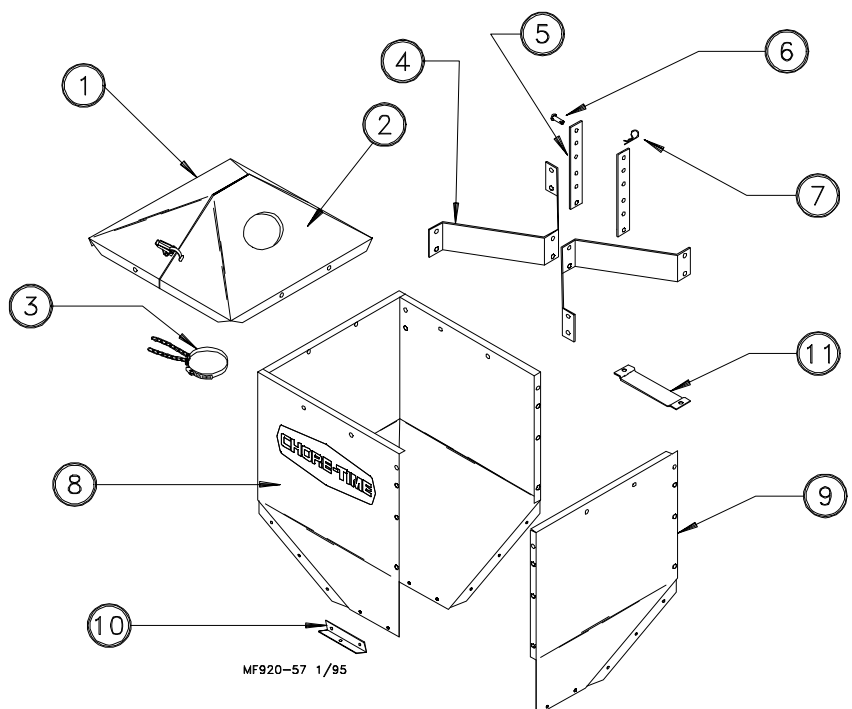
<u>Key</u>	<u>Description</u>	<u>Part No.</u>
1*	Hopper Cover (w/o hole)	28211
2*	Hopper Cover (w/ hole)	28212
3	Tube Support Assembly	14367
4	Hopper Hanger	28165
5	Adjustment Bracket	2706
6	Cotter Pin	2797-1
7	Hair Pin	2664
8	Hopper Side (w/o hole)	28164
9	Hopper Side (w/ hole)	24241
10	Boot Hanger	28168
11	H.L.C. Mounting Bracket	26287

NOTES

*These components may be ordered as an assembly under Part No. **28210**.

The 100# Hopper Assembly may be ordered under Part No. **28220**.

The 100# Hopper Assembly, including the Cover, may be ordered under Part No. **28240**.

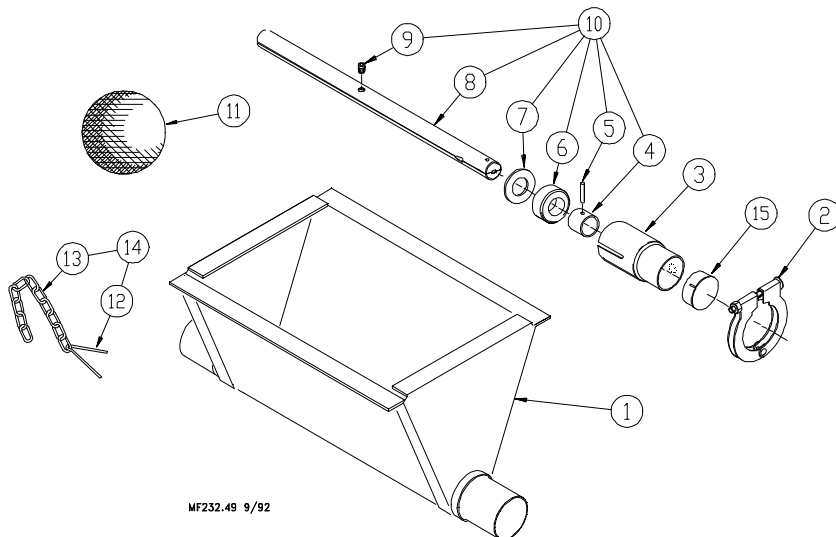


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Single Boot Components

Part No. 6822

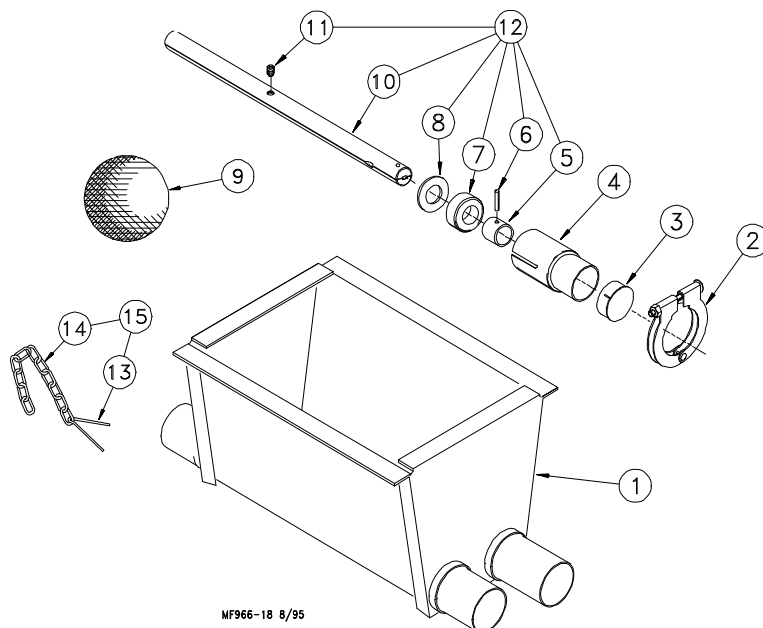
Item	Description	Part No.
1	Boot Weldment	3760
2	Tube Clamp	24063
3	Outlet Tube	4556
4	Sleeve	5648
5	3/16 x 1" Pin	2960-1
6	Bearing	2689
7	Washer	2955-14
8	Anchor	6818
9	Setscrew	1174
10	Anchor and Bearing Ass'y	6817
11	Cannonball	3531
12	Cotter Pin	1639
13	Chain	2128-1
14	Latch Pin Ass'y	2683
15	Cap	29373
--	Danger Decal	2527-9



Twin Boot Components

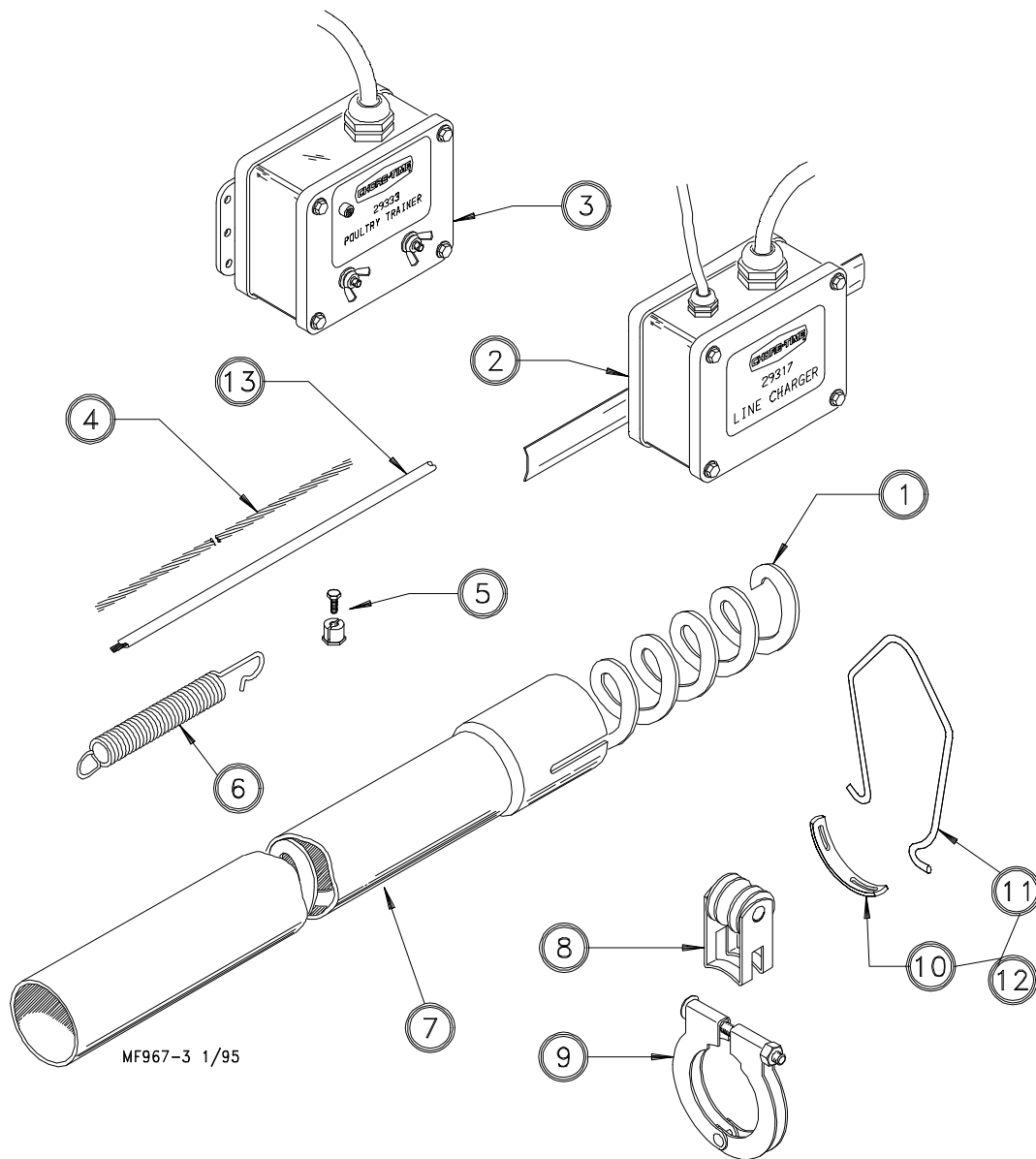
Part No. 6824

Item	Description	Part No.
1	Boot Weldment	3932
2	Tube Clamp	24063
3	Cap	29373
4	Outlet Tube	4556
5	Sleeve	5648
6	3/16 x 1" Pin	2960-1
7	Bearing	2689
8	Washer	2955-14
9	Cannonball	3531
10	Anchor	6818
11	Setscrew	1174
12	Anchor and Bearing Ass'y	6817
13	Cotter Pin	1639
14	Chain	2128-1
15	Latch Pin Ass'y	2683
--*	Jumper Wire Kit	5960
--	Danger Decal	2527-9



*The Jumper Wire Kit includes an insulated piece of High-Voltage Wire (part no. 28994) and (2) cable clamps.

Feeder Line Components



<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1*	Auger	6820-0
2	Line Charger (110 V, 60 Hz)	29317
	Line Charger (220 V, 50/60 Hz)	29341
3	Poultry Trainer (110 V, 60 Hz)	29333
	Poultry Trainer (220 V, 50/60 Hz)	29325
4	1/16" Cable	1922
5	1/16" Cable Clamp	1826
6	Spring	7551
7	Roll Formed Tube	
	--12 ft., 5 hole tube	6854-6
	--12 ft., 4 hole tube	6854-7
	--10 ft., 4 hole tube	6854-4
	--10 ft., 3 hole tube	6854-5
	-- 9 ft., 4 hole tube	6854-1

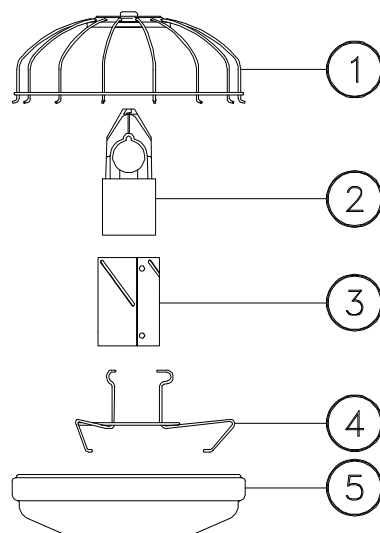
<u>Item</u>	<u>Description</u>	<u>Part No.</u>
8	Anti-Roost Bracket	24060
9	Tube Clamp	24063
10	Hanger Strap	7298
11	Hanger Bracket	7297
12	Hanger Kit	7299
13	Charger Wire (165')	28994-165
	Charger Wire (330')	28994-330

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

Model C Feeder Assemblies

Standard Model C Feeder

<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Grill	6906
2	Grill Support	6461
3	Feed Level Tube	2508
	Feed Level Tube for Turkeys	4329
4	Feed Level Ring	8171
5	Plastic "V" Bottom Pan	7700

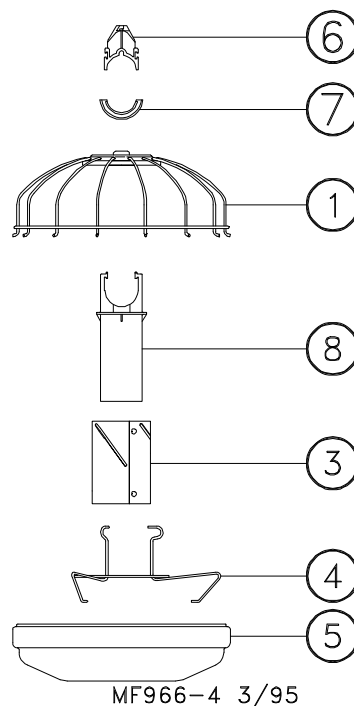


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Model C Feeder (Slide Top)

<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Grill	6906
3	Feed Level Tube	2508
	Feed Level Tube for Turkeys	4329
4	Feed Level Ring	8171
5	Plastic "V" Bottom Pan	7700
6*	Support Cap	25052
7*	Support Insert (swinging)	28356
8*	Grill Support	25051

*These components may be ordered under Chore-Time Part No. 25055.

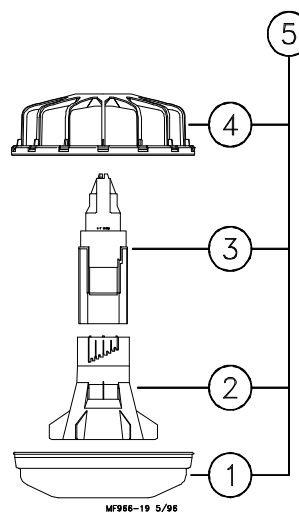


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Model C2 Feeder Assemblies

2-Piece Model C2 Feeder

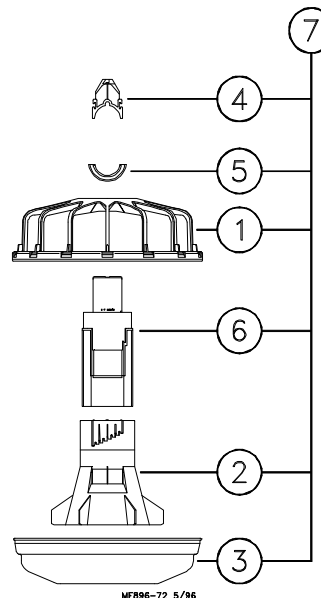
<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Model C2 Feeder Pan	25281
2*	Adjustment Cone	29064
3	Support Cone	25282
4	Grill	25280
5	2-Piece Model C2 Feeder	28110



Model C2 Feeder (Slide Top)

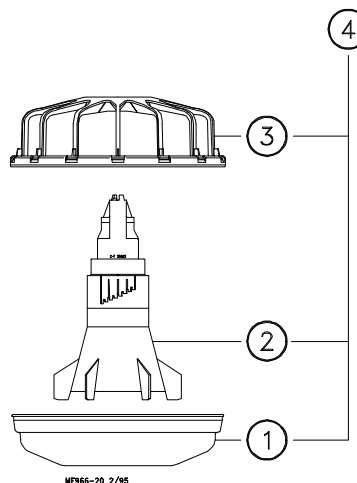
<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Grill	25280
2*	Adjustment Cone	29064
3	Model C2 Feeder Pan	25281
4	Support Cap	25052
5	Support Insert (Swinging)	28356
6*	Support Cone	25283
7	Model C2 Assembly (Slide Top)	28115

*These items may be ordered as an assembly under Part No. 29514.



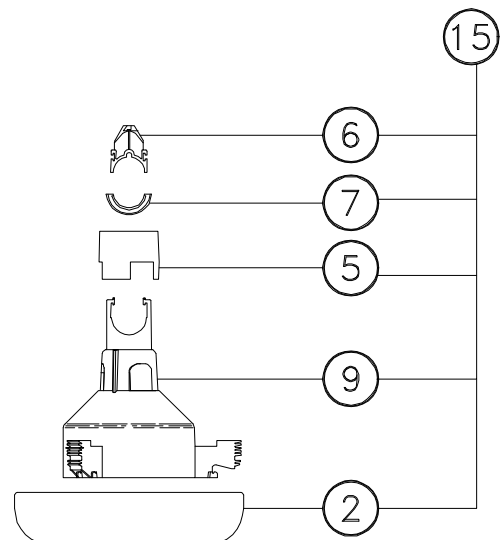
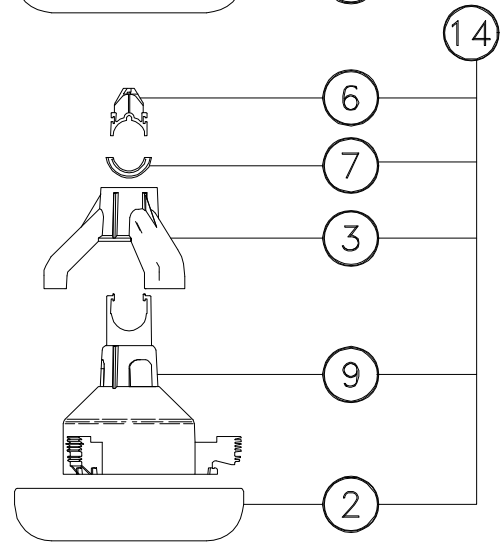
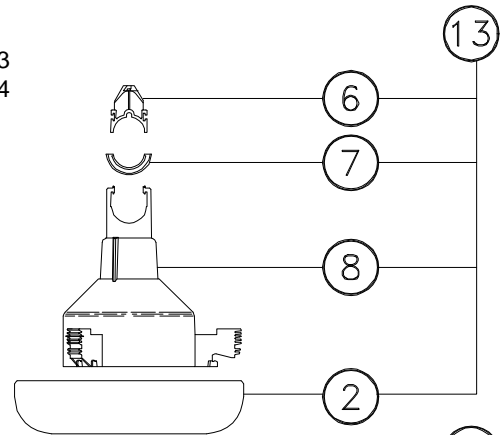
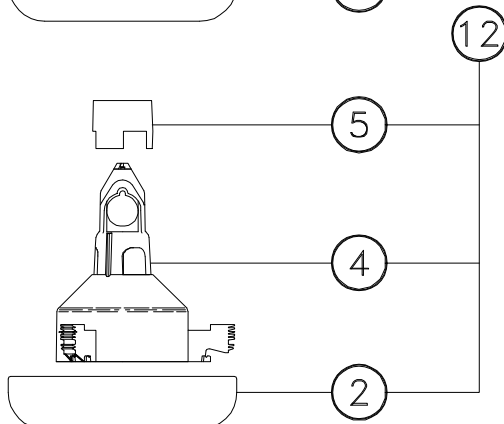
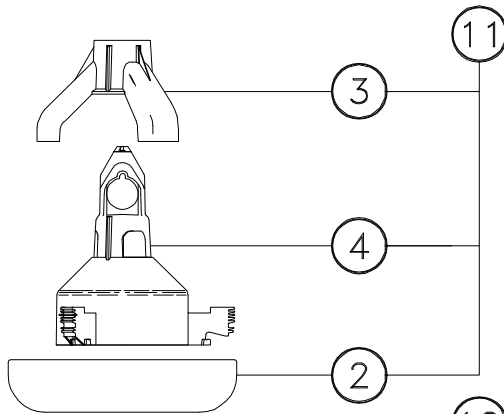
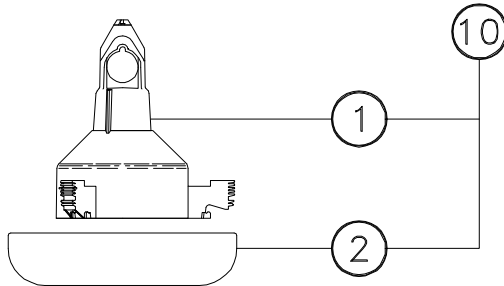
1-Piece Model C2 Feeder

<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Model C2 Feeder Pan	25281
2	1-Piece Support Cone (windowless)	33885
3	Grill	25280
4	1-Piece Model C2 Feeder	34569



Model H2 Feeder Assemblies

<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Model H2 Cone (w/o Feed Windows)	24900-5
2	Model H2 Feeder Pan	24901
3	Feed Chute	25320-1
4	Model H2 Cone (w/ Feed Windows)	24900-6
5	Flood Collar	25360
6	Support Cap	25052
7	Support Insert (swinging)	28356
8	Model H2 Cone (Slide Top, w/o Windows)	24900-3
9	Model H2 Cone (Slide Top, w/Windows)	24900-4
10	Model H2 1-Piece Feeder (w/o Windows)	27110
11	Model H2 1-Piece Feeder (w/ Feed Chute)	27115
12	Model H2 1-Piece Feeder (w/ Flood Collar)	27120
13	Model H2 2-Piece Feeder (w/o Windows)	28112
14	Model H2 2-Piece Feeder (w/ Feed Chute)	28113
15	Model H2 2-Piece Feeder (w/ Flood Collar)	28114

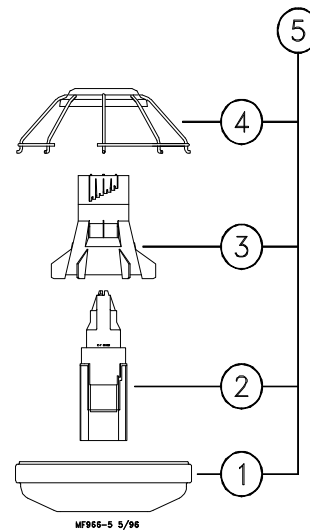


Model G Feeder Assemblies

2-Piece Model G Feeder

<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Feeder Pan	7700
2*	Support Cone	25282
3*	Adjustment Cone	30730
4	Grill	29300
5	2-Piece Model G Feeder	29560

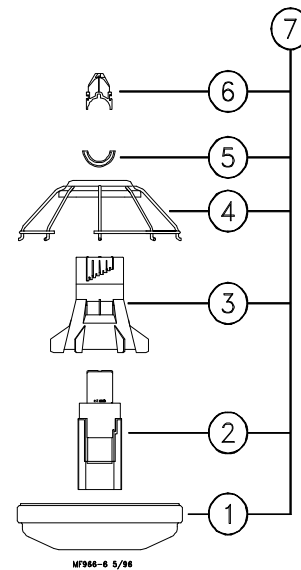
*These items may be ordered as an assembly under Part No. 30735.



Model G Feeder (Slide Top)

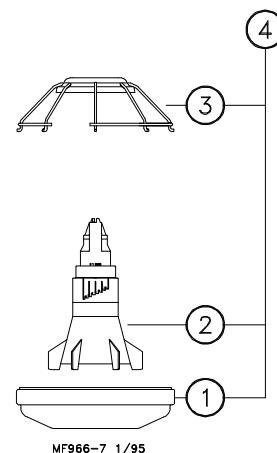
<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Feeder Pan	7700
2*	Support Cone	25283
3*	Adjustment Cone	30730
4	Grill	29300
5	Support Insert (Swinging)	28356
6	Support Cap	25052
7	Model G Assembly (Slide Top)	29565

*These items may be ordered as an assembly under Part No. 34538.



1-Piece Model G Feeder

<u>Item</u>	<u>Description</u>	<u>Part No.</u>
1	Feeder Pan	7700
2	1-Piece Support Cone (windowless)	33885
3	Grill	29300
4	1-Piece Model G Feeder	34567

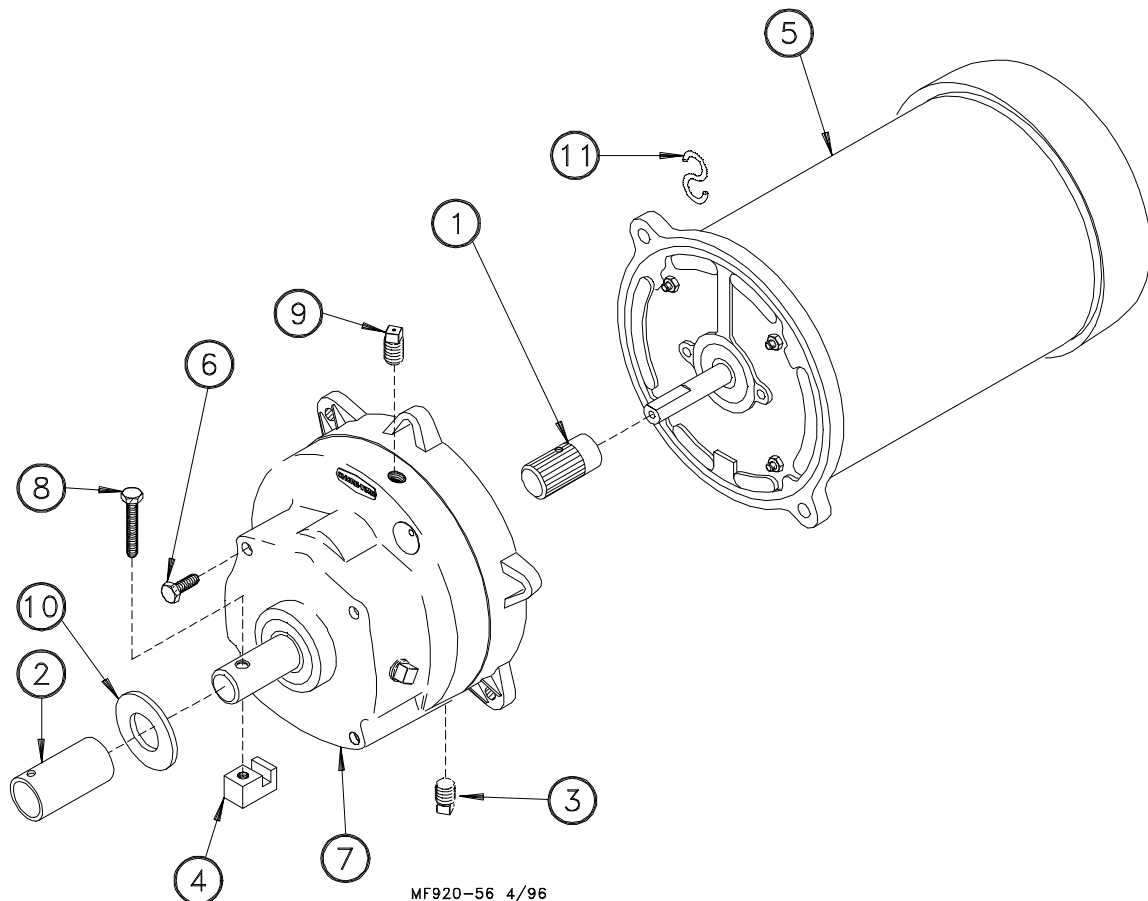


Power Unit Assemblies

Item	Description	3259-8 Part No.	3259-25 Part No.	3259-84 Part No.	3259-85 Part No.	3259-98 Part No.	3259-100 Part No.	3259-128 Part No.
1	Pinion Assembly	5046	5046	5046	5046	5046	5046	5046
2	Drive Tube Connector	1048	1048	1048	1048	1048	1048	1048
3	Pipe Plug (magnetic)	30160	30160	30160	30160	30160	30160	30160
4	Driver Block	4642	4642	4642	4642	4642	4642	4642
5	Motor	4229	5703	4229	5703	5977	28031	24624
6	5/16-18x5/8 Hex Hd Screw	4412-1	4412-1	4412-1	4412-1	4412-1	4412-1	4412-1
7	Gearhead	3261-5	3261-5	3261-5	3261-5	3261-11	3261-11	3261-5
8	1/4-20x1-1/2 Hex Hd Screw	2919	2919	2919	2919	2919	2919	2919
9	Vent Plug	3516	3516	3516	3516	3516	3516	3516
10	Flat Washer	1484	1484	1484	1484	1484	1484	1484
11	"S" Hook	4270	4270	4270	4270	4270	4270	4270

Power Unit Assembly Part Numbers:

Part Number	HP	RPM	Phase	Hz	Voltage	Usages
3259-8	1/3 HP	348 RPM	Single Phase	60 Hz	230	Use with 1878-8 Control Unit ONLY
3259-25	1/2 HP	348 RPM	Single Phase	60 Hz	230	Use with 1878-8 Control Unit ONLY
3259-84	1/3 HP	348 RPM	Single Phase	60 Hz	230	Use with all Control Units except 1878 Control Units
3259-85	1/2 HP	348 RPM	Single Phase	60 Hz	230	Use with all Control Units except 1878 Control Units
3259-98	1/2 HP	348 RPM	Single Phase	50 Hz	230	Use with all Control Units
3259-100	1/2 HP	348 RPM	Three Phase	50 Hz	220/380	Use with all Control Units
3259-128	1/2 HP	348 RPM	Three Phase	60 Hz	230	Use with all Control Units



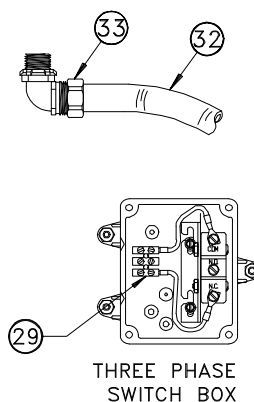
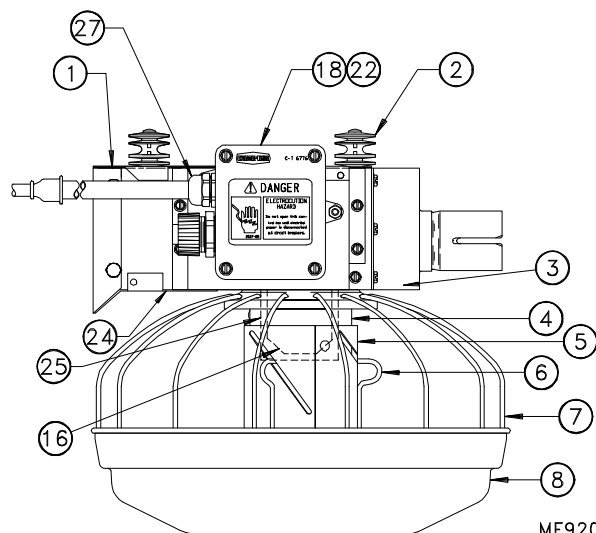
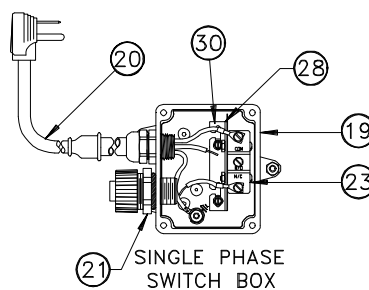
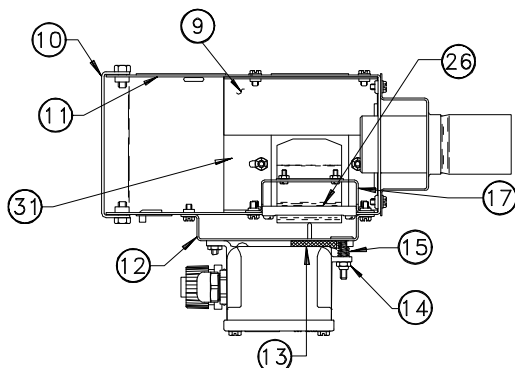
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Model C End Control-Single Phase: 24396

Model C End Control-3 Phase: 27757

Item	Description	1 Phase Part No.	3 Phase Part No.
1	Cover and Insulator Assembly	24682	24682
2	Insulator	2976	2976
3	Support Bracket	24683	24683
4	Insert Assembly	6255	6255
5	Feed Level Tube	2508	2508
6	Feed Level Ring	8171	8171
7	Grill Assembly	6269	6269
8	Feeder Pan	7700	7700
9	Deflector Panel	34310	34310
10	Anchor	4188	4188
11	Control Body	14434	14434
12	Switch Box Mount	25084	25084
13	Gasket	6968-1	6968-1
14	10-32 Locknut	6963	6963
15	Spring	6972	6972
16	Paddle	24848	24848

Item	Description	1 Phase Part No.	3 Phase Part No.
17	Stop Panel	25433	25433
18	Switch Box Cover	6776	6776
19	Switch Box	24702	7841
20	Control Cord Assembly	25495	----
21	1/2" Watertight Connector	26980	----
22	Gasket	6777	6777
23	Actuator Switch	7114	7114
24	Bottom Cover	14432	14432
25	Mylar	25318	25318
26	Paddle Retainer	25045	25045
27	Liquid Tight Connector	24685	----
28	Mylar Insulation	1907-5	1907-5
29	Terminal Block	----	34925-3
30	Switch Bracket	7068	7068
31	Mount Bracket	34309	34309
32	14" Flexible Conduit	26982-1	----
33	90 Degree Connector	23810	23810
--	Switch Actuator Pin	8757	8757
--	Danger Decal	2527-9	2527-9
--	Anti-Roost Guard	2798	2798

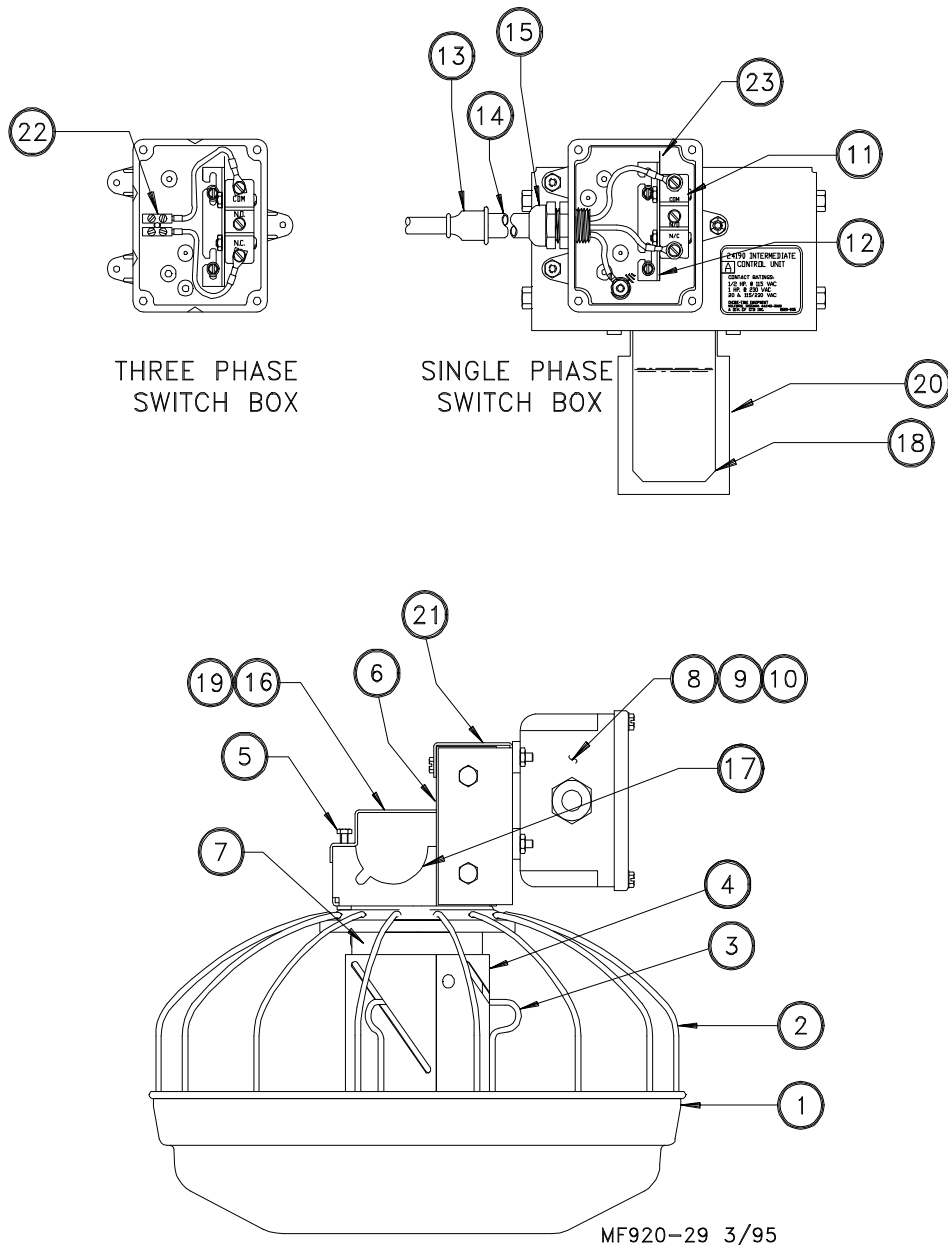


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Model C Intermediate Control-Single Phase: 24190

Model C Intermediate Control-3 Phase: 27758

<u>Item</u>	<u>Description</u>	<u>1 Phase Part No.</u>	<u>3 Phase Part No.</u>	<u>Item</u>	<u>Description</u>	<u>1 Phase Part No.</u>	<u>3 Phase Part No.</u>
1	Feeder Pan	7700	7700	16	Danger Decal	2527-9	2527-9
2	Grill Assembly	6269	6269	17	Tube Support	14754	14754
3	Feed Level Ring	8171	8171	18	Switch Paddle	24848	24848
4	Feed Level Tube	2508	2508	19	Tube Retainer	14756	14756
5	10-24 x 1-7/8" Fastener	4416-4	4416-4	20	Mylar Assembly	25318	25318
6	Front Panel	25046	25046	21	Back Cover	25047	25047
7	Insert Assembly	6255	6255	22	Terminal Block	----	34925-2
8	Switch Box	34842	7841	23	Switch Insulation	1907-5	1907-5
9	Switch Box Cover	6776	6776	--	Spring (not shown)	6972	6972
10	Gasket	6777	6777	--	Gasket	6968-1	6968-1
11	Actuator Switch	7114	7114	--	Danger Decal	2527-25	2527-25
12	Switch Bracket	7068	7068	--	Pivot Bracket	25048	25048
13	Reducing Seal	7815	----	--	Paddle Retainer	25045	25045
14	Vinyl Tubing	7814	----				
15	Water Tight Connector	24685	----				

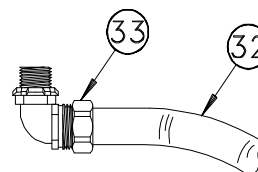
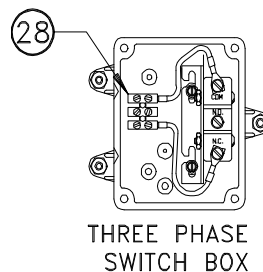
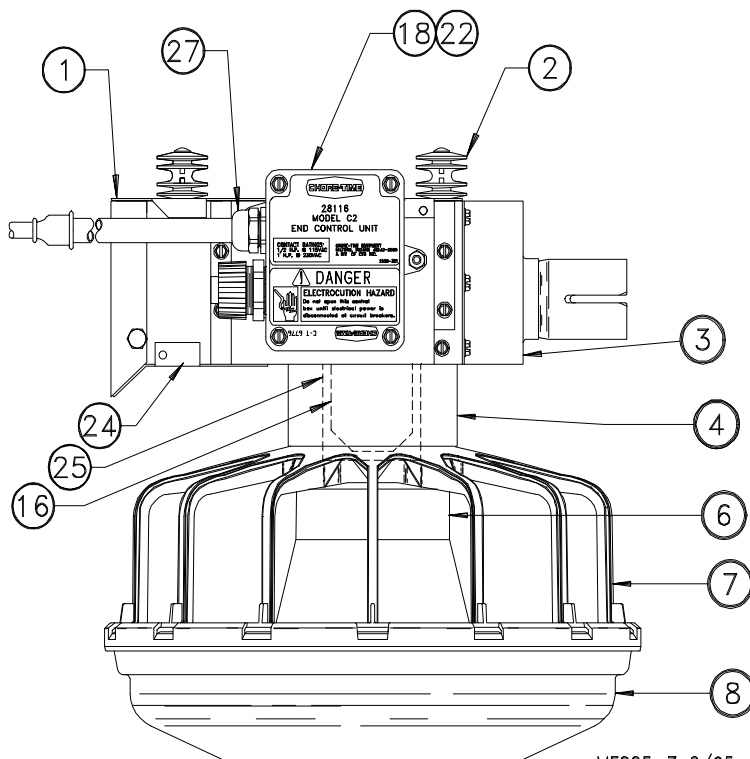
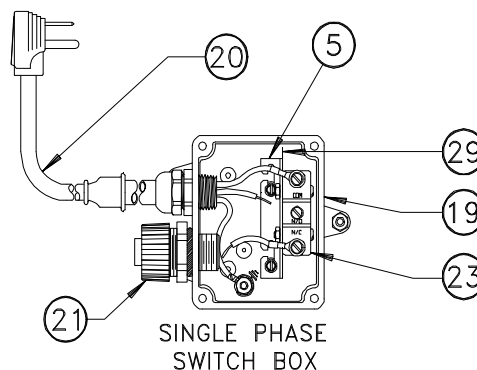
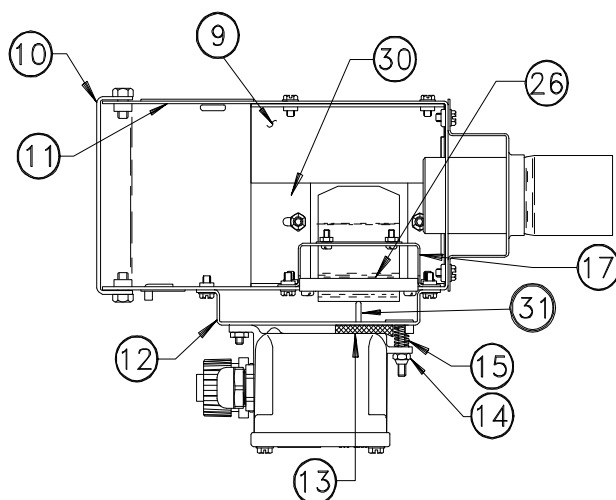


Model C2 End Control-Single Phase: 28116

Model C2 End Control-3 Phase: 28270

Item	Description	1 Phase Part No.	3 Phase Part No.
1	Cover and Insulator Assembly	24682	24682
2	Insulator	2976	2976
3	Support Bracket	24683	24683
4	Support Assembly	35729	35729
5	Switch Bracket	7068	7068
6	Control Unit Sleeve	29349	29349
7	Grill Assembly	25280	25280
8	Pan	25281	25281
9	Deflector Panel	34310	34310
10	Anchor	4188	4188
11	Control Body	14434	14434
12	Switch Box Mount	25084	25084

Item	Description	1 Phase Part No.	3 Phase Part No.
13	Gasket	6968-1	6968-1
14	10-32 Locknut	6963	6963
15	Spring	6972	6972
16	Paddle	24848	24848
17	Stop Panel	25433	25433
18	Switch Box Cover	6776	6776
19	Switch Box	24702	7841
20	Control Cord Assembly	25495	----
21	1/2" Watertight Connector	26980	----
22	Gasket	6777	6777
23	Actuator Switch	7114	7114
24	Bottom Cover	14432	14432
25	Mylar	25318	25318
26	Paddle Retainer	25045	25045
27	Liquid Tight Connector	24685	----
28	Terminal Block	----	34925-3
29	Switch Insulation	1907-5	1907-5
30	Mount Bracket	34309	34309
31	Switch Actuation Pin	8757	8757
32	14" Flexible Conduit	26982-1	----
33	90 Degree Connector	23810	23810
--	Anti-Roost Guard	2798	2798

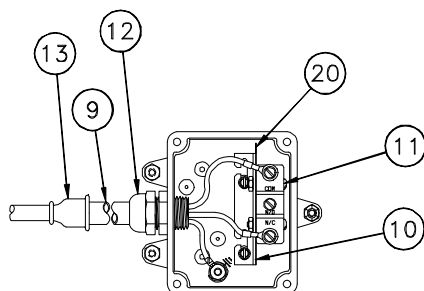


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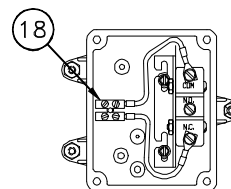
Model C2 Intermediate Control-Single Phase: 28117
Model C2 Intermediate Control-3 Phase: 28275

<u>Item</u>	<u>Description</u>	<u>1 Phase Part No.</u>	<u>3 Phase Part No.</u>	<u>Item</u>	<u>Description</u>	<u>1 Phase Part No.</u>	<u>3 Phase Part No.</u>
1	Pan Assembly	25281	25281	14	Front Panel	25046	25046
2	Feeder Grill	25280	25280	15	Back Cover	25047	25047
3	Tube Support	14754	14754	16	Tube Retainer	14756	14756
4	Support Cone Assembly	35729	35729	17	Danger Decal	2527-9	2527-9
5	10-24 x 1-3/4 Hex Hd Bolt	4416-4	4416-4	18	Terminal Block	----	34925-2
6	Switch Box	34842	7841	19	Contol Unit Sleeve	29349	29349
7	Gasket	6777	6777	20	Switch Insulation	1907-5	1907-5
8	Switch Box Cover	6776	6776	--	Pivot Bracket	25048	25048
9	Vinyl Tubing	7814	----	--	Paddle Retainer	25045	25045
10	Switch Bracket	7068	7068	--	Spring (not shown)	6972	6972
11	Actuator Switch	7114	7114	--	Switch Paddle (not shown)	24848	24848
12	Water Tight Connector	24685	----	--	Mylar Assembly (not shown)	25318	25318
13	Reducing Seal	7815	----				

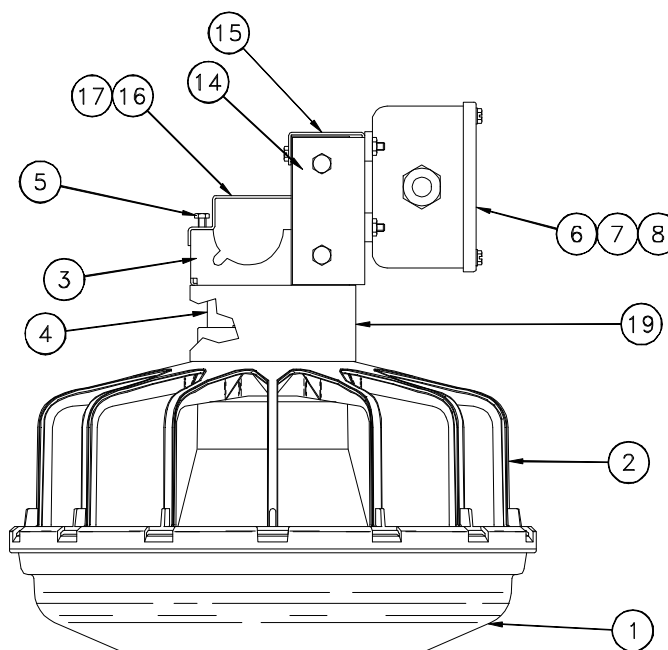
**The Intermediate Control may be ordered without the Pan, Grill, Adjustment Cone, and Support Cone Assembly under Chore-Time Part No. 25422.



SINGLE PHASE SWITCH BOX



3 PHASE SWITCH BOX



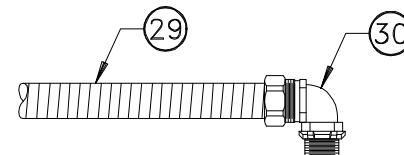
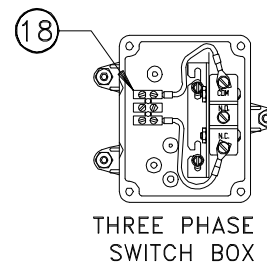
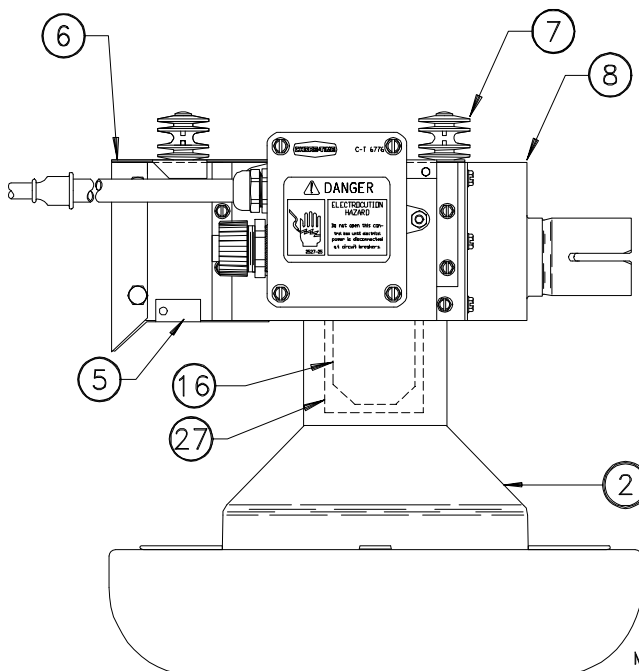
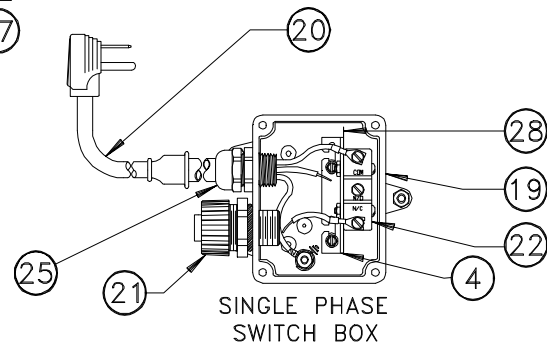
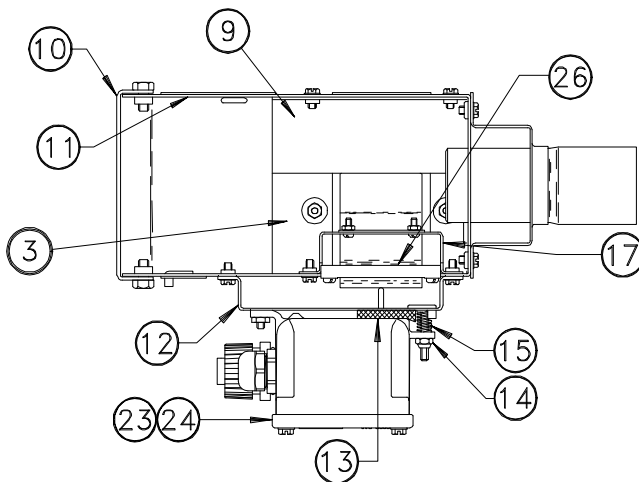
MF885-9 5/96

Model H2 End Control-Single Phase: 24397

Model H2 End Control-3 Phase: 27762

Item	Description	1 Phase Part No.	3 Phase Part No.
1	Pan	24901	24901
2	Cone Assembly	34481	34481
3	Switch Bracket	34309	34309
4	Switch Bracket	7068	7068
5	Bottom Cover	14432	14432
6	Control Assembly Cover	24682	24682
7	Insulator	2976	2976
8	Support Bracket	24683	24683
9	Deflector Panel	34310	34310
10	Anchor	4188	4188
11	Control Body	14434	14434
12	Switch Box Mount	25084	25084
13	Gasket	6968-1	6968-1
14	10-32 Locknut	6963	6963

Item	Description	1 Phase Part No.	3 Phase Part No.
15	Spring	6972	6972
16	Paddle	24848	
17	Stop Panel	25433	25433
18	Terminal Strip	----	34925-3
19	Switch Box	24702	7841
20	Cord Assembly	25495	----
	Reducing Seal	7815	----
21	1/2" Watertight Connector	26980	----
22	Actuator Switch	7114	7114
23	Gasket	6777	6777
24	Switch Box Cover	6776	6776
25	1/2" Watertight Connector	24685	----
26	Paddle Retainer	25045	25045
27	Mylar Assembly	25318	25318
28	Switch Insulation	1907-5	1907-5
29	14" Flexible Conduit	26982-1	----
30	90 Degree Connector	23810	23810
--	Anti-Roost Guard	2798	2798
--	Switch Actuation Pin	8757	8757
--	Danger Decal	2527-9	2527-9

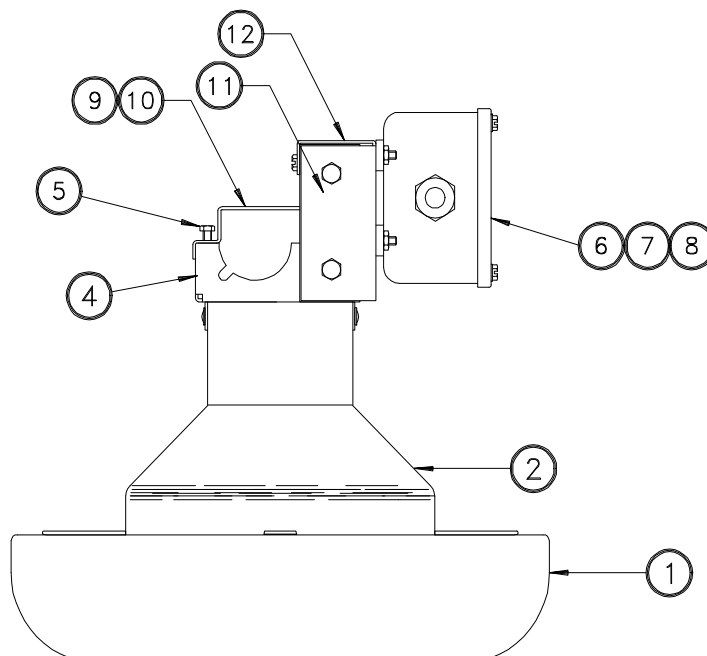
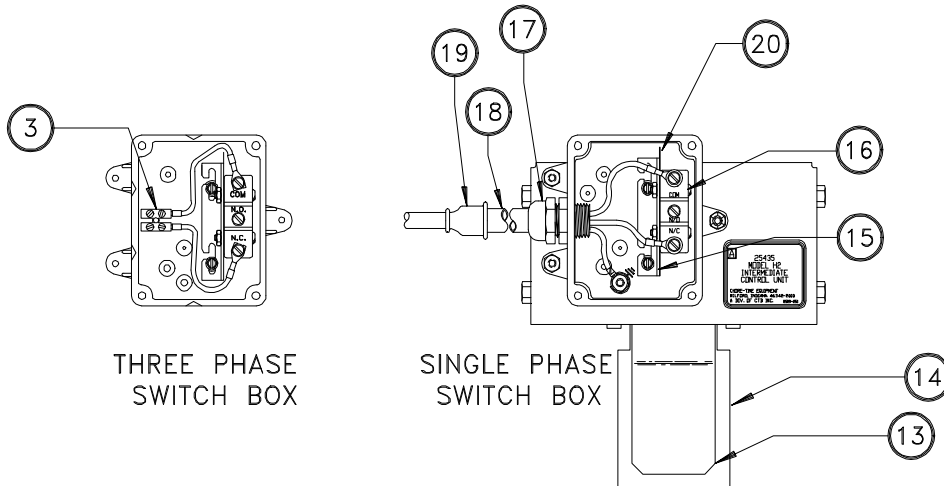


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Model H2 Intermediate Control-Single Phase: 25435

Model H2 Intermediate Control-3 Phase: 27760

Item	Description	1 Phase Part No.	3 Phase Part No.	Item	Description	1 Phase Part No.	3 Phase Part No.
1	Pan	24901	24901	11	Front Panel	25046	25046
2	Cone Assembly	34481	34481	12	Back Cover	25047	25047
3	Terminal Block	----	34925-2	13	Switch Paddle	24848	24848
4	Tube Insert	14754	14754	14	Mylar Assembly	25318	25318
5	10-24 x 1-3/4 Hex Hd Bolt	4416-4	4416-4	--	Spring (not shown)	6972	6972
6	Switch Box	34892	7841	15	Switch Bracket	7068	7068
7	Gasket	6777	6777	16	Actuator Switch	7114	7114
8*	Switch Box Cover	6776	6776	17	Water Tight Connector	24685	----
9	Danger Decal	2527-9	2527-9	18	Vinyl Tubing	7814	----
10	Tube Retainer	14756	14756	19	Reducing Seal	7815	----
11	Front Panel	25046	25046	20	Switch Insulation	1907-5	1907-5
12	Back Cover	25047	25047	--	Gasket	6968-1	6968-1
13	Switch Paddle	24848	24848	--	Switch Actuation Pin	8757	8757
				--	Pivot Bracket	25048	25048
				--	Paddle Retainer	25045	25045



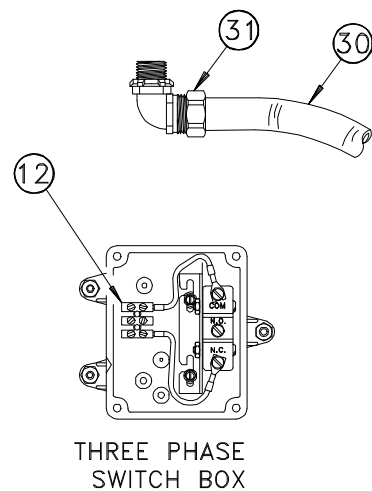
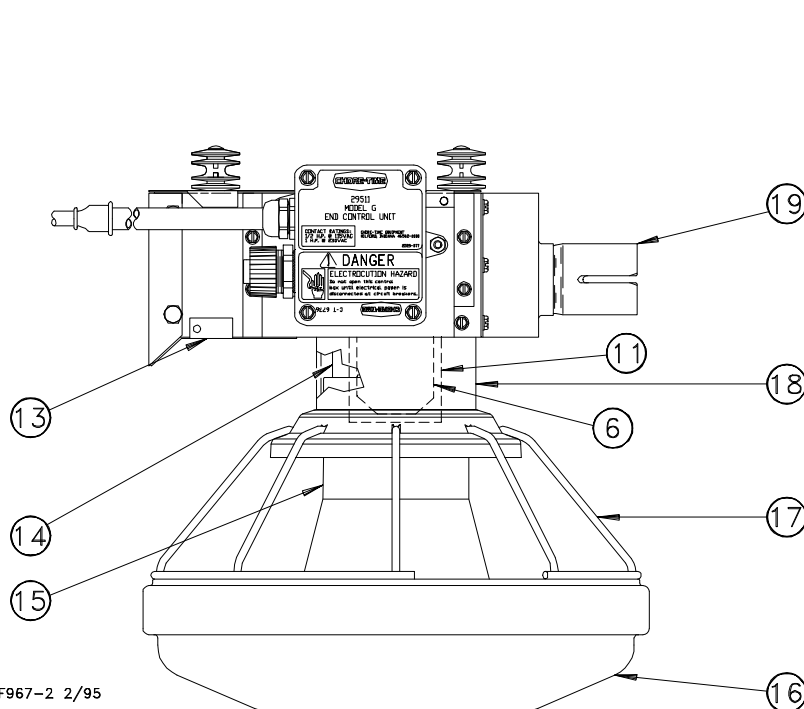
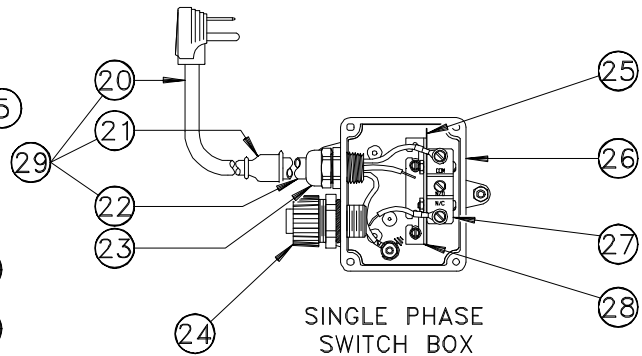
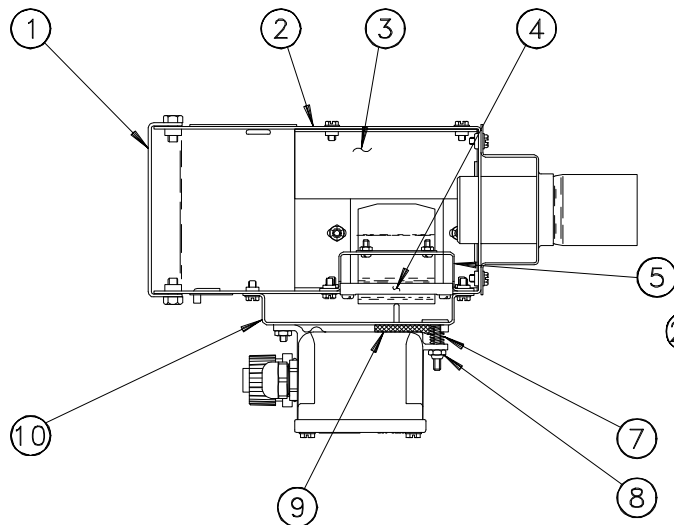
MF920-31 2/95

Model G End Control-Single Phase: 29511

Model G End Control-3 Phase: 29521

Item	Description	1 Phase Part No.	3 Phase Part No.
1	Anchor	4188	4188
2	Control Body	14434	14434
3	Switch Bracket	14435	14435
4	Paddle Retainer	25045	25045
5	Stop Panel	25433	25433
6	Paddle	24848	24848
7	Spring	6972	6972
8	10-32 Locknut	6963	6963
9	Gasket	6968-1	6968-1
10	Switch Box Mount	25084	25084
11	Mylar Assembly	25318	25318
12	3-Terminal Block	----	27845-3
13	Bottom Cover	14432	14432
14	Support Cone	28134	28134
15	Control Adjustment Cone	29064	29064
16	Feeder Pan	7700	7700

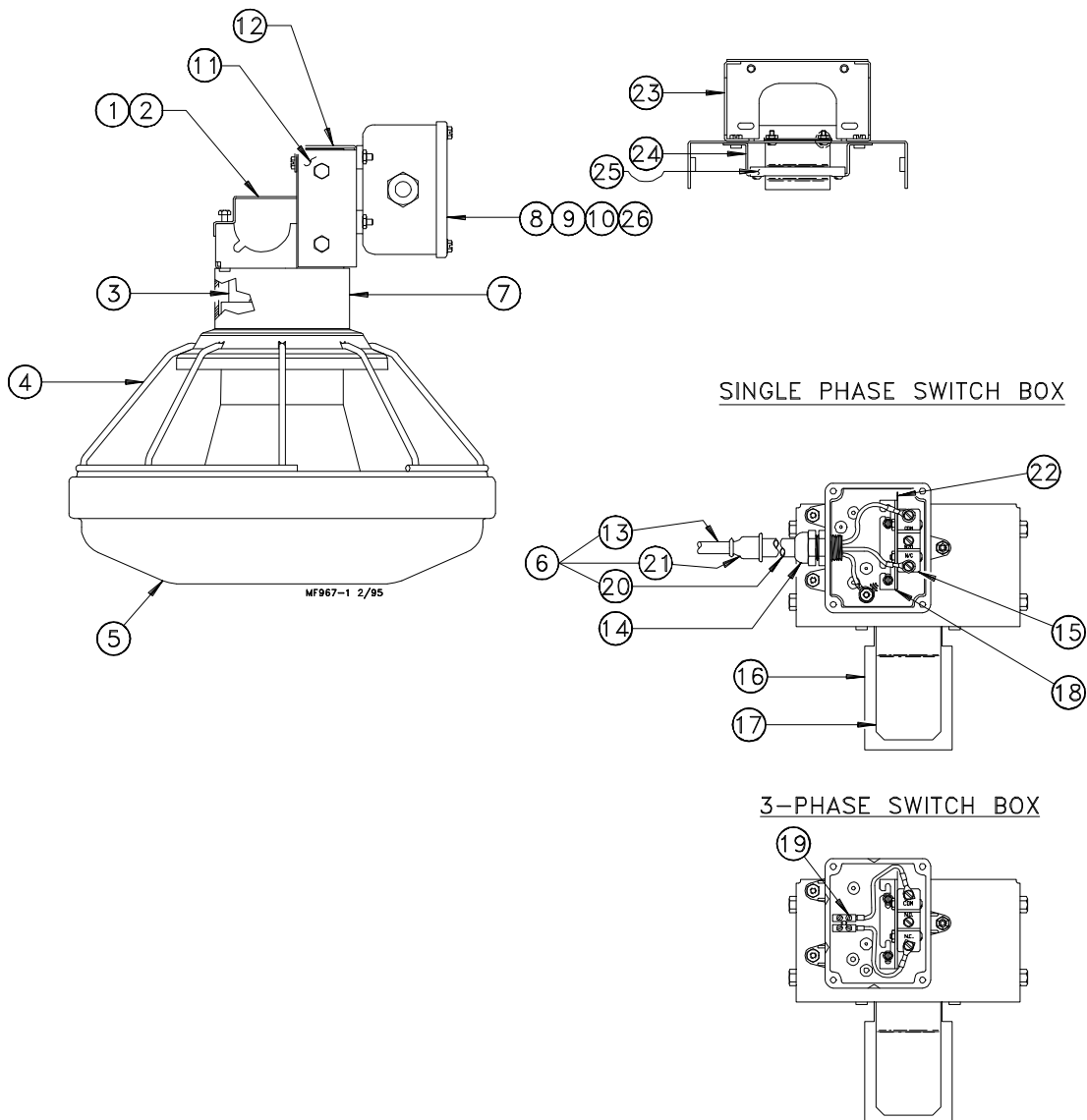
Item	Description	1 Phase Part No.	3 Phase Part No.
17	Model G Grill Assembly	29300	29300
18	Control Unit Sleeve	29349	29349
19	Support Bracket	24683	24683
20	Cord Stock	5044-3	----
21	Reducing Seal	7815	----
22	Vinyl Tubing	7814	----
23	1/2" Watertight Connector	24685	24685
24	1/2" Watertight Connector	24680	24680
25	Switch Insulation	1907-5	1907-5
26	Switch Box	24702	7841
27	Actuator Switch	7114	7114
28	Switch Bracket	7068	7068
29	Control Cord Assembly	25495	----
30	14" Flexible Conduit	26982-1	----
31	90 Degree Connector	23810	23810
--	Anti-Roost Guard	2798	2798



Model G Intermediate Control-Single Phase: 29512

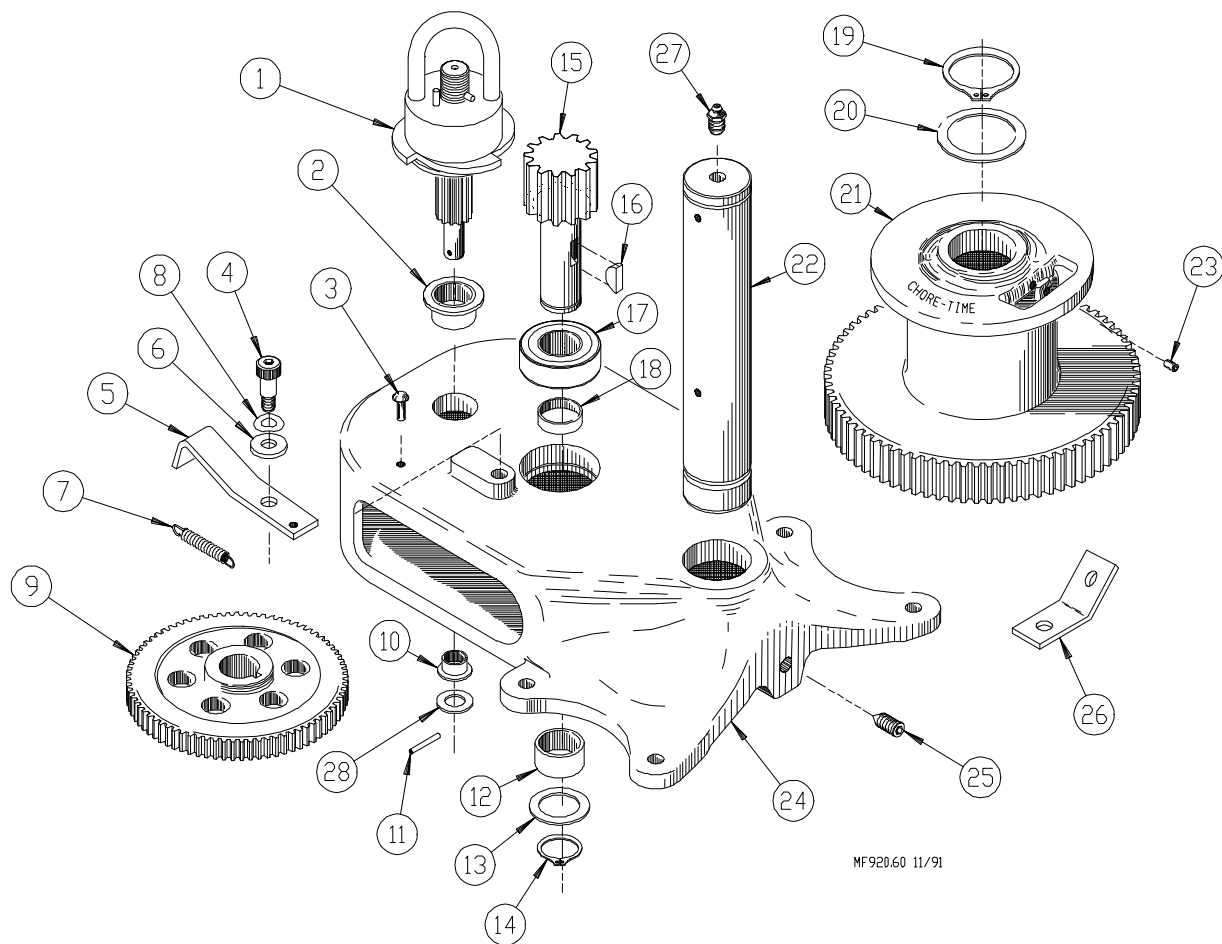
Model G Intermediate Control-3-Phase: 29522

<u>Item</u>	<u>Description</u>	<u>1 Phase Part No.</u>	<u>3 Phase Part No.</u>	<u>Item</u>	<u>Description</u>	<u>1 Phase Part No.</u>	<u>3 Phase Part No.</u>
1	Tube Retainer	14756	14756	16	mylar Assembly	25318	25318
2	Danger Decal	2527-9	2527-9	17	Paddle Switch	24848	24848
3	Support Cone Assembly	35729	35729	18	Switch Bracket	7068	7068
4	Model G Grill Assembly	29300	29300	19	2-Terminal Block	----	34925-2
5	Feeder Pan	7700	7700	20	Vinyl Tubing	7814	----
6	Control Cord Assembly	4999-49	----	21	Reducing Seal	7815	----
7	Control Unit Sleeve	29349	29349	22	Switch Insulation	1907-5	1907-5
8	Switch Box Cover	6776	6776	23	Tube Support	14754	14754
9	Danger Decal	2529-380	2529-379	24	Pivot Bracket	25048	25048
10	Switch Box	34842	7841	25	Paddle Retainer	25045	25045
11	Front Panel	25046	25046	26	Switch Box Cover Gasket	6777	6777
12	Back Cover	25047	25047	--	Switch Box Leveling Spring	6972	6972
13	16-3 SJO Cord	2290-2	----	--	Gasket	6968-1	6968-1
14	1/2" Watertight Connector	24685	----	--	Switch Actuation Pin	8757	8757
15	Actuator Switch	7114	7114				



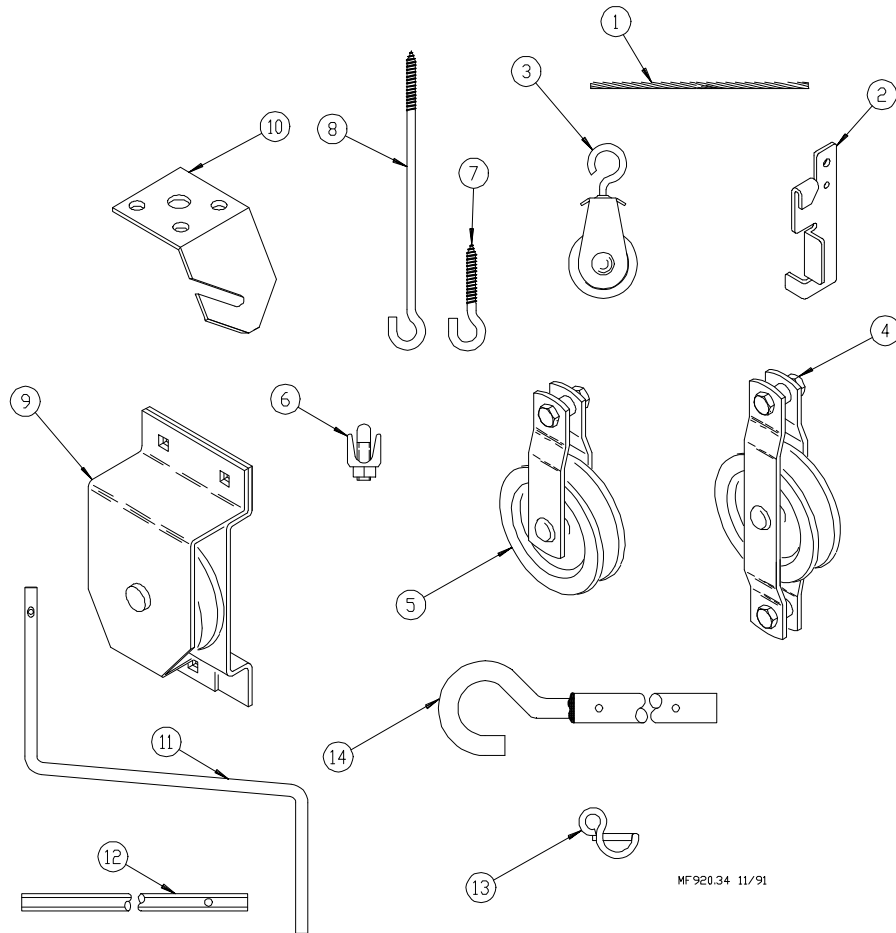
2883 Power Winch

Item	Description	Part No.
1	Input Shaft Assembly	14885
2	Flange Bushing	2967-2
3	Drive Stud	4128-1
4	Shoulder Bolt	4022-2
5	Pawl	6672
6	Spring Washer	4023
7	Spring	1543
8	5/16" Flat Washer	2255-44
9	Intermediate Gear	2890
10	Flange Bushing	3252
11	Spirol Pin	2960-3
12	Bushing	2967-4
13	Washer	2955-1
14	Retaining Ring	2958-1
15	Drive Pinion	2962
16	Woodruff Key	2959
17	1" Bearing	4937
18	Spacer	4936
19	Retaining Ring	3556
20	Washer	2955-2
21	Winch Drum	3723
22	Drum Shaft	3637
23	Setscrew	603
24	Winch Frame	3719
25	Setscrew	3727
26	Cable Hook	2985
27	Grease Zerk	24499
28	Washer	2499



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Miscellaneous Suspension Components



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Item	Description	Part No.
1	3/32" Cable	4973
	3/16 Cable	1213
	1/8" Cable	27975
2	Cable Lock	14337
3	Pulley with Swivel	3004
4	Double Eye Pulley	2501
5	Pulley	2500
6	3/16" Cable Clamp	732
	1/8" Cable Clamp	14898
7	Standard Screw Hook	1214
	Large Screw Hook	2041

Item	Description	Part No.
8	7" Screw Hook	28357
9	Pulley Assembly	28429
10	Ceiling Hook	28550
11*	Handle Shank	3148
12**	Drill Adapter Shaft	3151
13	Winch Handle Pin	3761
14	Winch Drive Tube (4')	2884-1
	Winch Drive Tube (8')	2884-2

*Item 11 and Item 13 may be ordered as a kit under part no. 2885.

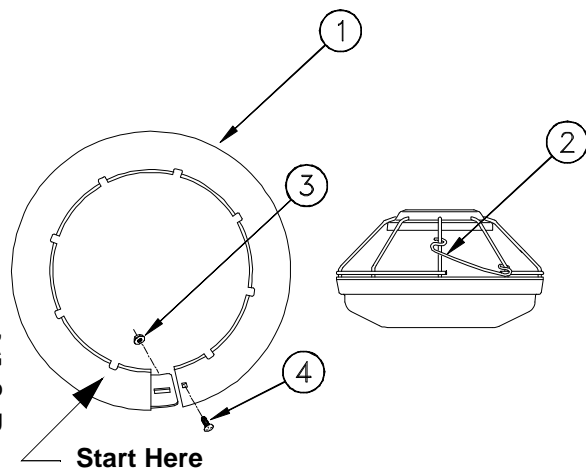
**Item 12 and Item 13 may be ordered as a kit under part no. 2886.

Model G Optional Items

Item	Description	Part No.
1	Model G Pan Extension	29510
2*	Model G Grill Lock	30276
3	Hex Flange Nut (Serrated)	24208
4	1/4" Carriage Bolt	22692

*Pan and Grill shown for clarity only.

Installation Note: When installing the Pan Extension, begin by snapping the notch (noted) over any Model G Grill wire. Then continue snapping the notches into position in a clockwise direction. Secure Extension using hardware supplied.



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Maintaining the Floor Feeder

The Model C, C2, G, and H2 Feeders 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.

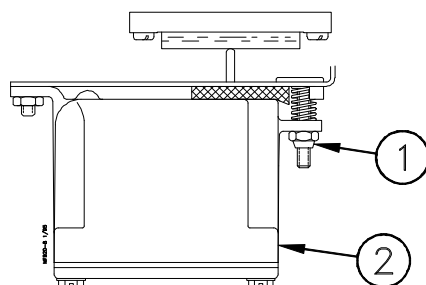
1. Check the oil level in the gear heads at installation and every 6 months. The Pipe Plug, on the side of the gear head, indicates proper oil level. Add SAE 40W oil when necessary.

The oil in the gearheads should be replaced every 12 months with new SAE 40W oil.

- A. Remove the bottom Pipe Plug to drain the oil. Discard used oil in accordance with local and national codes.
- B. Wipe any debris off the magnet on the bottom Pipe Plug and reinstall. Remove the side Pipe Plug and (top) Vent Plug.
- C. Set the power unit in the horizontal position.
- D. 2-Stage Gearheads: Add approximately 9 oz. (266 ml) of SAE 40W oil through top hole. This should be just enough oil to reach the side Pipe Plug.

3-Stage Gearheads (3261-9, 3261-12, 3261-14): Add approximately 13 oz. (384 ml) of SAE 40W oil through top hole. This should be just enough oil to reach the side Pipe Plug.

- E. Install the side Pipe Plug and (top) Vent Plug.
2. Check equipment for loose hardware every 6 months--including the Anchor Block. Tighten if necessary.
 3. Switch Adjustment procedure for the Control Units:
 - A. Turn the adjustment nut counter-clockwise until the switch clicks.
 - B. Turn the adjustment nut clockwise until the switch clicks.
 - C. Turn the adjustment nut counter-clockwise 3/4 turn.
 4. 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.



Key	Description
1	Adjustment Nut
2	Switch Box

6. 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.

7. 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.

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

- A. Disconnect power to the entire system.

- B. Pull the Anchor and Bearing Assembly and approximately 18" (45 cm) of auger out of the boot.

- C. Place a clamp or locking pliers on the auger to prevent it from springing back into the auger tubes.

- D. Remove the Anchor & Bearing Assembly.

- E. Carefully remove the locking pliers.

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

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

9. Replacing the batteries in the Agri-Timer:

- A. Disconnect electrical service at the breaker.

- B. Remove the (6) screws and the face of the control.

- C. Cut the wire ties to allow for battery removal.

- C. Replace the existing batteries with new "AAA" batteries.

- D. Replace wire ties to secure the new batteries in place.

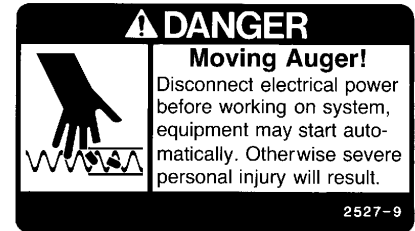
- E. Reinstall the face of the timer and secure using (2) screws previously removed.

- F. Reconnect electrical service to the Agri-Time Control.

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

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

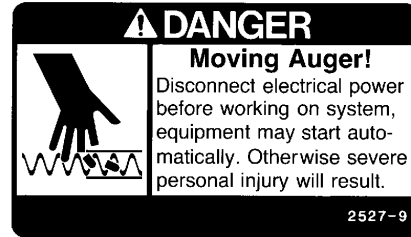
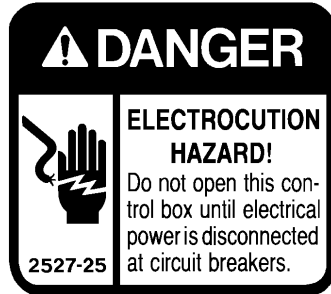
12. It may be necessary to periodically retighten the shocker cable. Be sure to disconnect power to the shocker before servicing the equipment.



Trouble Shooting the Floor Feeding System

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

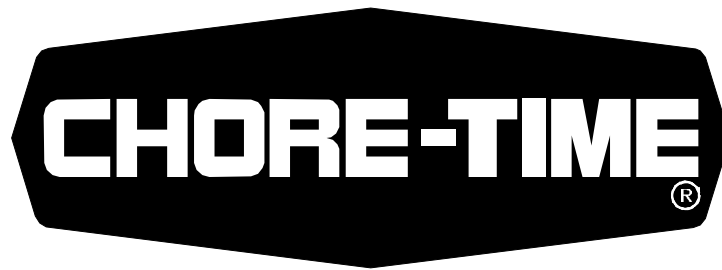
Service and maintenance work should be done by a qualified technician only.



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. Check starting current draw at 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 outlet holes for foreign objects. Remove obstruction.

Problem	Possible Cause	Corrective Action
Auger runs erratically.	Frozen or cracked bearing at boot anchor.	Replace bearing. Slowly ease auger back into tube. Be careful not to damage the bearing when reinserting the auger.
	Insufficient stretch in auger.	Shorten the auger.
	Obstruction in the 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.

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Made to work.
Built to last.

**THANK-YOU for purchasing a Chore-Time
Floor Feeding System.**

Revisions to this Manual

Page No

Description of Change

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Updated warranty information

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Updated miscellaneous part numbers in parts lists.

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

Chore-Time Equipment, A Division of CTB, Inc.
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