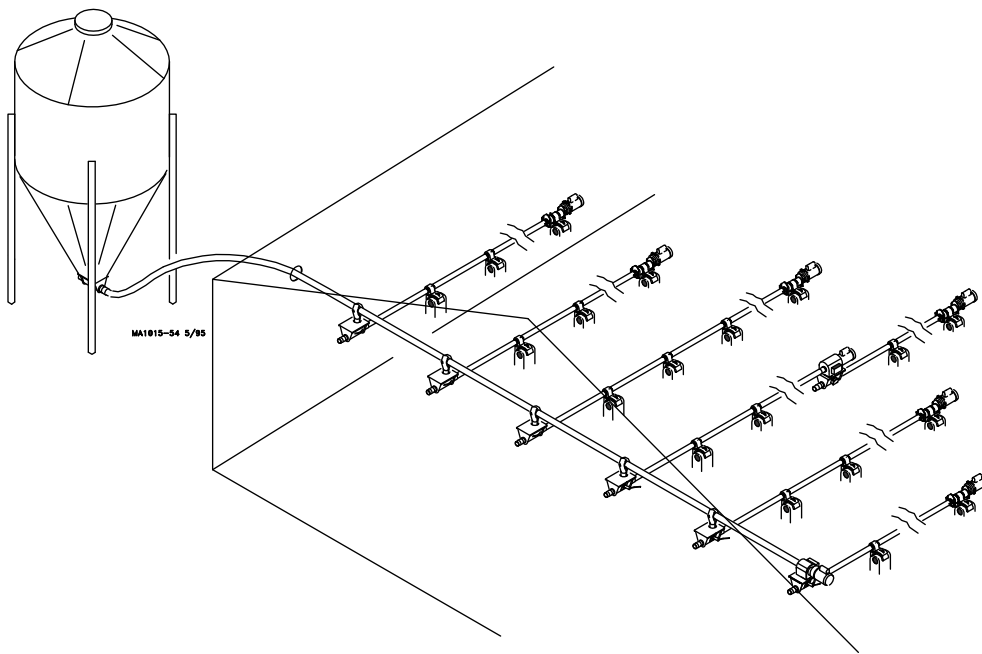


Flag System Drop Feeding

Installation and Operators Instruction Manual



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

Chore-Time Limited Warranty

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

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

CONDITIONS AND LIMITATIONS

THIS WARRANTY CONSTITUTES CHORE-TIME'S ENTIRE AND SOLE WARRANTY AND CHORE-TIME EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES. CHORE-TIME shall not be liable for any direct, indirect, incidental, consequential or special damages which any purchaser may suffer or claim to suffer as a result of any defect in the Product. Consequential or Special Damages as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs, and operational inefficiencies. *Some jurisdictions prohibit limitations on implied warranties and/or the exclusion or limitation of such damages, so these limitations and exclusions may not apply to you. This warranty gives the original purchaser specific legal rights. You may also have other rights based upon your specific jurisdiction.*

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

The following circumstances shall render this Warranty void:

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

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

Effective: **April, 2014**

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Safety and General Information

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

Safety–Alert Symbol



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

Understanding Signal Words

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



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



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



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

Follow Safety Instructions

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

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

Decal Descriptions

DANGER : Moving Auger

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



DANGER: Electrical Hazard

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

Ground all electrical equipment for safety.

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

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

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



DANGER: Springing Auger

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



General Information

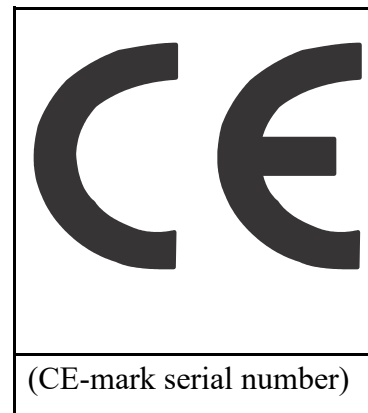
The CHORE-TIME Flag Drop Feeding System is designed to convey livestock feed types. Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury and/or death.

This manual is designed to provide comprehensive planning, installation, wiring, 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).

IMPORTANT: CE stands for certified Europe. It is a standard which equipment must meet or exceed in order to be sold in Europe. CE provides a benchmark for safety and manufacturing issues. CE is required only on equipment sold in Europe.

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 names and address of your CHORE-TIME Distributor.



Please fill in the following information about your Chore-Time Flag Drop 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

Tools needed to install your Flag System include:

- Regular Screw Driver
- Allen Wrenches
- Drive Ratchet and Sockets
- Locking Pliers
- File
- Saw to cut PVC Tubes
- 1.5", 2.5", or 3" Hole Saw or Sabre Saw
- Screw-Hook Driver
- Bolt Cutters or Hack Saw
- PVC Cleaning Solvent
- Wire Cutters
- Wire Strippers
- PVC Cleaning Solvent
- Wire Cutters
- Wire Strippers
- Adequate Size and Quantity of Electrical Wire
- Electrical Drill and Drill Bits
- Abrasive Cut-off Saw (for Steel Systems only)
- Oxy-Acetylene Torch and Brazing Rod
- Another Person to help!!

Introduction

The CHORE-TIME Flag System is designed to be used in installations that have one Fill System supplying several lines of feeders, as shown in **Figure 1. on page 9**. The Alternate Flag System Layout Diagrams on **Pages 12 Through Page 13** show alternative Fill System layout options.

The Flag System uses a Model 75 or Model 90 FLEX-AUGER Fill System to supply two or more Flag Feeder Lines.

A Delay/Relay Kit is recommended for use on flag fill systems to avoid potential short cycling.

The FLEX-AUGER Fill System supplying the Flag System must be sized properly to provide enough feed, without over-charging the system. The following chart specifies the feed delivery rates of the Model 75 and Model 90 FLEX-AUGER Fill Systems operated at 216 RPM, 348 RPM, and 425 RPM.

Feed Delivery System Capacities

	Model 75	Model 90
216 RPM	30 lbs./min. 13.6 kg./min.	60 lbs./min. 27.2 kg./min.
348 RPM	50 lbs./min. 22.7 kg./min.	100 lbs./min. 45.4 kg./min.
425 RPM	60 lbs./min. 27.2 kg./min.	120 lbs./min. 54.4 kg./min.

The feed delivery rate of a Single Transfer Boot is 20 lbs./min. or 9 kg./min. Note: The feed delivery rate of a Twin Transfer Boot is 40 lbs./min. or 18 kg./min. (20 lbs./min. (9 kg./min.) per side.

Flag Lines up to 200 feet (61 m) require using a 1/3 H.P., 1-Phase, 60 Hz, 220 V Power Unit (Part No. 3259-34).

Flag lines between 200 feet (61 m) and 400 feet (122 m) require using a 1/2 H.P., 1-Phase, 60 Hz, 220 V Power Unit (Part No. 3259-39).

Two 1/2 H.P. Power Units are available for 50 Hz applications. They are primarily for Flag Systems up to 400 feet (122 m). See **“3259-X Fill System Power Units for Flag Systems” on page 26**.

Refer to the **“Fill System Power Unit Selection Guide (in feet)” on page 7** (in feet) or **Page 8** (in meters) to determine which Power Unit is required for your individual system.

Fill System Power Unit Selection Guide (in feet)

230 V, 60Hz, Single Phase Power Units												
No. of Flag Lines	Model 75 Fill System						Model 90 Fill System					
	348 RPM			425 RPM			348 RPM			425 RPM		
	Up to 80'	81' to 150'	151' to 200'	Up to 60'	61' to 120'	121' to 160'	Up to 30'	31' to 90'	91' to 150'	Up to 20'	21' to 70'	71' to 120'
2	3259-51	3259-52	3259-49	----	----	----	----	----	----	----	----	----
3	----	----	----	3259-77	3259-78	3259-79	----	----	----	----	----	----
4	----	----	----	3259-77	3259-78	3259-79	----	----	----	----	----	----
5	----	----	----	----	----	----	3259-51	3259-52	3259-53			
6 or more	----	----	----	----	----	----	----	----	----	3259-77	3259-78	3259-79

230 V, 50Hz, Single Phase Power Units						
No. of Flag Lines	Model 75 Fill System			Model 90 Fill System		
	348 RPM			348 RPM		
	Up to 60'	61' to 120'	121' to 160'	Up to 30'	31' to 90'	91' to 150'
2	3259-88	3259-88	3259-89	----	----	----
3	3259-88	3259-88	3259-89	----	----	----
4	3259-88	3259-88	3259-89	----	----	----
5	----	----	----	3259-87	3259-88	3259-89
6	----	----	----	3259-87	3259-88	3259-89

220/380 V, 50Hz, Three Phase Power Units						
No. of Flag Lines	Model 75 Fill System			Model 90 Fill System		
	348 RPM			348 RPM		
	Up to 60'	61' to 120'	121' to 160'	Up to 30'	31' to 90'	91' to 150'
2	3259-103	3259-104	3259-105	----	----	----
3	3259-103	3259-104	3259-105	----	----	----
4	3259-103	3259-104	3259-105	----	----	----
5	----	----	----	3259-103	3259-104	3259-105
6	----	----	----	3259-103	3259-104	3259-105

∞ Fill System Power Unit Selection Guide (in meters)

230 V, 60Hz, Single Phase Power Units												
	Model 75 Fill System						Model 90 Fill System					
	348 RPM			425 RPM			348 RPM			425 RPM		
No. of Flag Lines	Up to 24.3 m	24.7 to 45.7 m	46 to 61 m	Up to 18.3 m	18.6 to 36.6 m	36.9 to 48.8 m	Up to 9.1 m	9.4 to 27.4 m	27.7 to 45.7 m	Up to 6.1 m	6.4 to 21.3 m	21.6 to 36.6 m
2	3259-51	3259-52	3259-49	----	----	----	----	----	----	----	----	----
3	----	----	----	3259-77	3259-78	3259-79	----	----	----	----	----	----
4	----	----	----	3259-77	3259-78	3259-79	----	----	----	----	----	----
5	----	----	----	----	----	----	3259-51	3259-52	3259-53			
6 or more	----	----	----	----	----	----	----	----	----	3259-77	3259-78	3259-79

230 V, 50Hz, Single Phase Power Units						
	Model 75 Fill System			Model 90 Fill System		
	348 RPM			348 RPM		
No. of Flag Lines	Up to 18.3 m	18.6 to 45.7 m	46 to 61 m	Up to 9.1 m	9.4 to 27.4 m	27.7 to 45.7 m
2	3259-88	3259-88	3259-89	----	----	----
3	3259-88	3259-88	3259-89	----	----	----
4	3259-88	3259-88	3259-89	----	----	----
5	----	----	----	3259-87	3259-88	3259-89
6	----	----	----	3259-87	3259-88	3259-89

220/380 V, 50Hz, Three Phase Power Units						
	Model 75 Fill System			Model 90 Fill System		
	348 RPM			348 RPM		
No. of Flag Lines	Up to 18.3 m	18.6 to 45.7 m	46 to 61 m	Up to 9.1 m	9.4 to 27.4 m	27.7 to 45.7 m
2	3259-103	3259-104	3259-105	----	----	----
3	3259-103	3259-104	3259-105	----	----	----
4	3259-103	3259-104	3259-105	----	----	----
5	----	----	----	3259-103	3259-104	3259-105
6	----	----	----	3259-103	3259-104	3259-105

Installation

Refer to Figures 1 through 5 for proper component installation information.

- 1. Install the FLEX-AUGER Fill System as specified in the Installation Manual supplied with the Fill System Control Unit.

Install an Outlet Drop Assembly at each flag line location.

Remove the Funnel from the Control Unit.

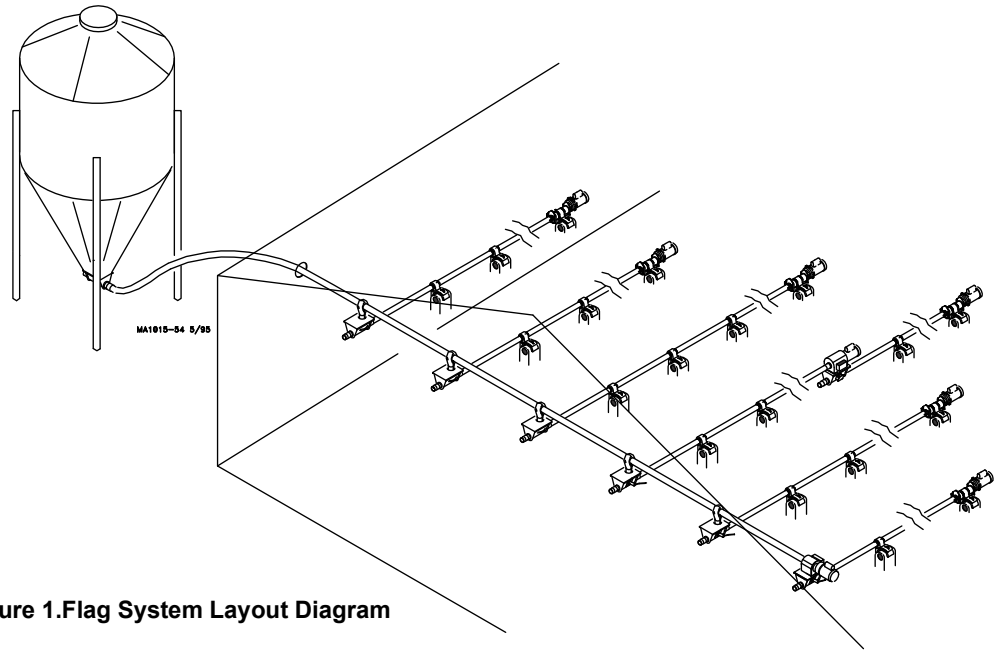


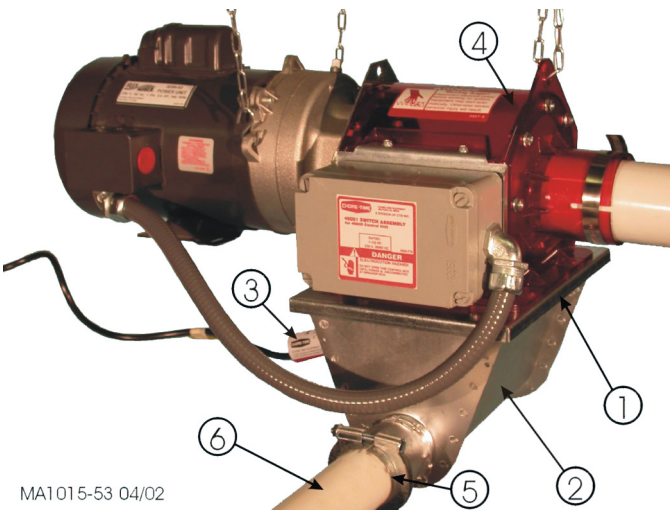
Figure 1.Flag System Layout Diagram

- 2. An Adapter Plate (Part No. 45970 or 45970SS) is required to connect the Fill System Control Unit to the last flag line. The Adapter Plate must be ordered separately.

Secure the Adapter Plate to the control unit, using 1/4-20 hardware supplied with the control unit.

Secure the Transfer Boot to the bottom of the adapter plate, using the 1/4-20 hardware supplied. (See Figure 2).

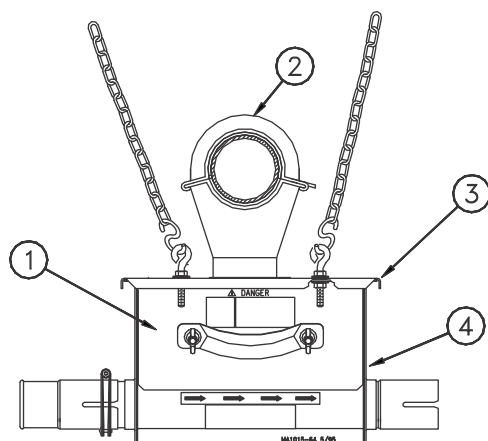
Make sure the outlet end of the boot is directed toward the feeder line.



Item	Description
1	Adapter Plate
2	Transfer Plate
3	Proximity Boot Switch
4	Fill System Control (Model 75 or 90)
5	Outlet End of Boot
6	Flag Line

Figure 2.Fill System Control Unit/Terminal Boot Installation

3. Assemble a Transfer Plate to the top of each of the remaining Transfer Boots, using the 1/4-20 eye bolts supplied. (See **Figure 3**)
4. Suspend a Boot and Transfer Plate assembly directly below each Outlet Assembly. Make sure the outlet end of the boot is directed toward the feeder line.



Item	Description
1	Clean-Out Cover
2	Outlet Drop
3	Transfer Plate
4	Transfer Boot

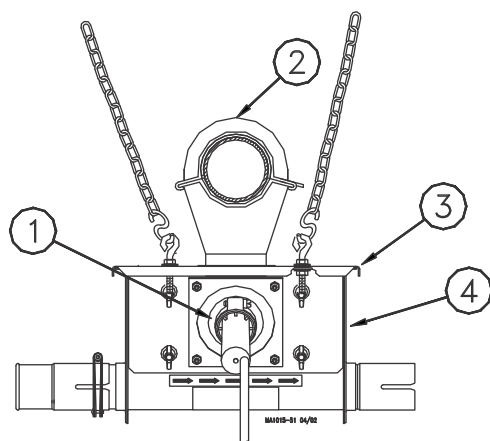
Figure 3. Transfer Boot Installation (w/o Prox. Boot Switch)

The bottom of the Outlet Assembly should pass through the hole in the Transfer Plate. **Note:** The Transfer Plate hole is sized for a Model 75 Outlet Drop. Enlarge the hole by removing the knock-out for Model 90 Outlet Drops.

It may be necessary to install a Proximity Boot Switch in a Transfer Boot to prevent excessive empty auger running time (See **Figure 4**). Consider installing a Proximity Boot Switch in any line that would run more than 10 minutes without feed.

5. Install the individual feeder lines, feeders, and Control Units as specified in the specific installation manual(s).

NOTE: The individual feeder lines must be suspended from the ceiling or rafters. Do not use the Fill System Auger Tubes to support the weight of the feeder line.



Item	Description
1	Proximity Boot Switch
2	Outlet Drop
3	Transfer Plate
4	Transfer Boot

Figure 4. Transfer Boot Installation (with Prox. Boot Switch)

6. Install the Delay/Relay Kit near the Fill System Power Unit.

7. For lines over 400' (122 m), a Transfer Boot (w/switch), Adapter Plate, and Control Unit are required. Install as shown in **Figure 5.** near the center of the line.

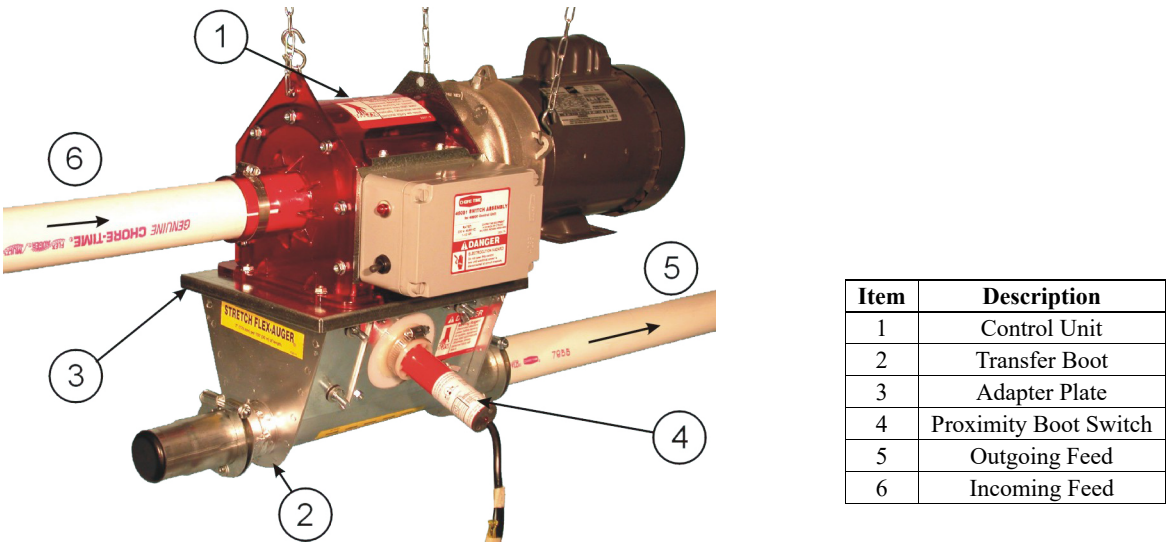


Figure 5. Control Unit/Extension Boot Installation--required for systems over 400 feet (122 m).

Wiring the System

The Flag System components may be configured in a variety of ways, as specified in **Figure 6. through Figure 9. on page 13.** Determine which layout diagram matches your system and refer to the appropriate wiring diagram "**Pages 14 through 24**" for wiring connections.

Setting the Delay

Set the 2 to 30 second delay as required to prevent the Fill System Control Unit from short cycling. Setting the delay to approximately 15 seconds is usually a good starting point. The amount of delay may need to be fine tuned to match feed type, system performance, etc.

Standard Flag System Layout Diagram



Figure 6. Standard Flag System Layout

Alternate #1 Flag System Layout Diagram

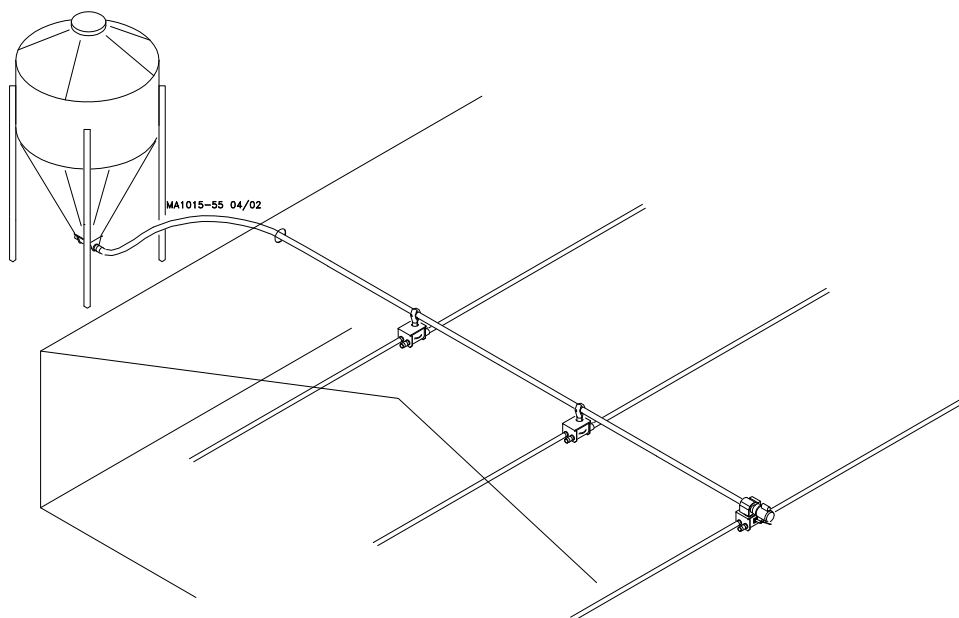


Figure 7. Twin Boot Flag System Layout (Alternate #1)

Alternate #2 Flag System Layout Diagram

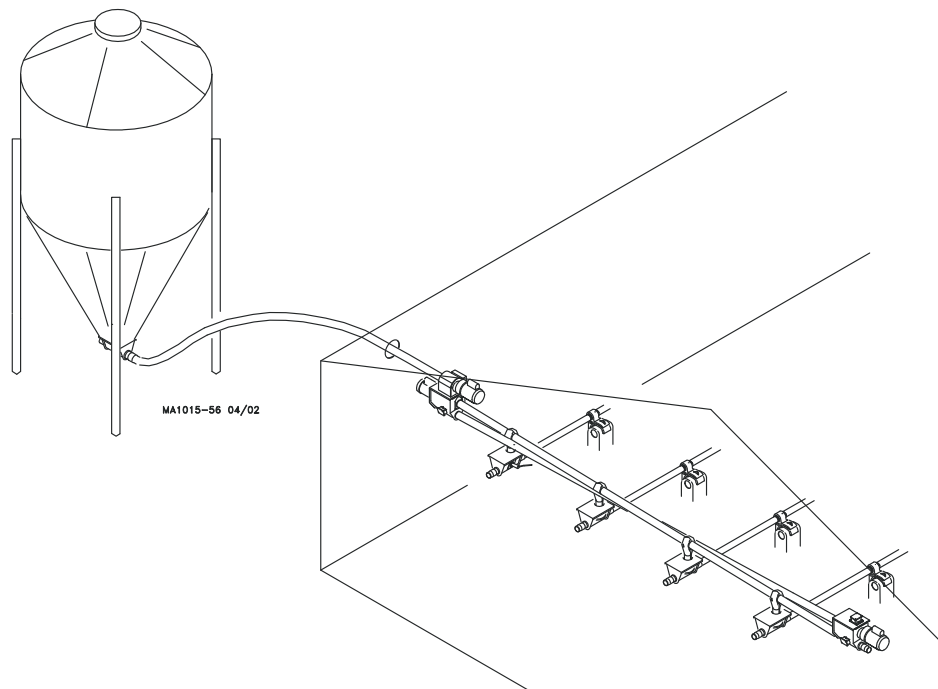


Figure 8.Return Flag System Layout (Alternate #2)

Alternate #3 Flag System Layout Diagram

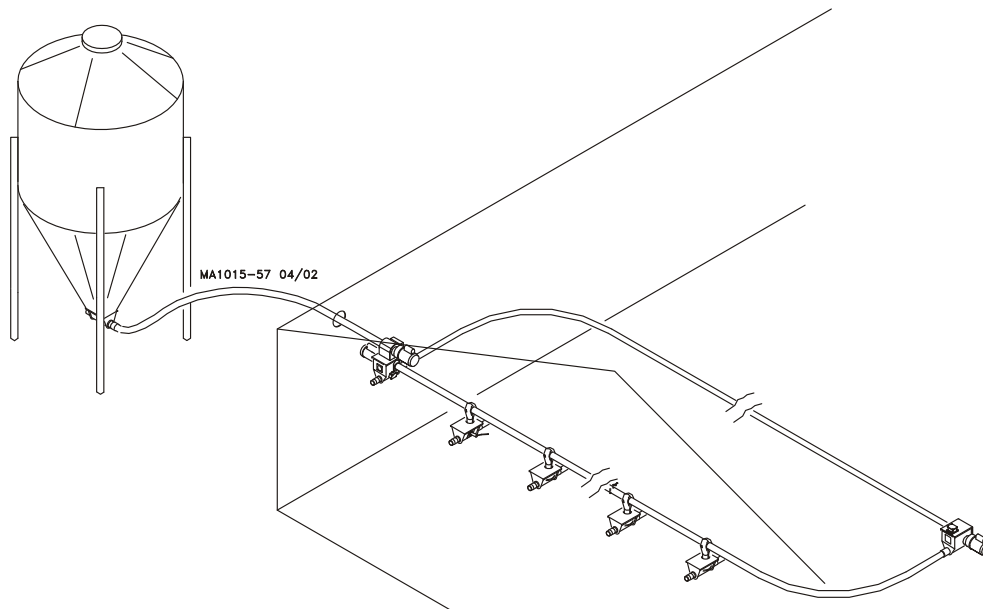
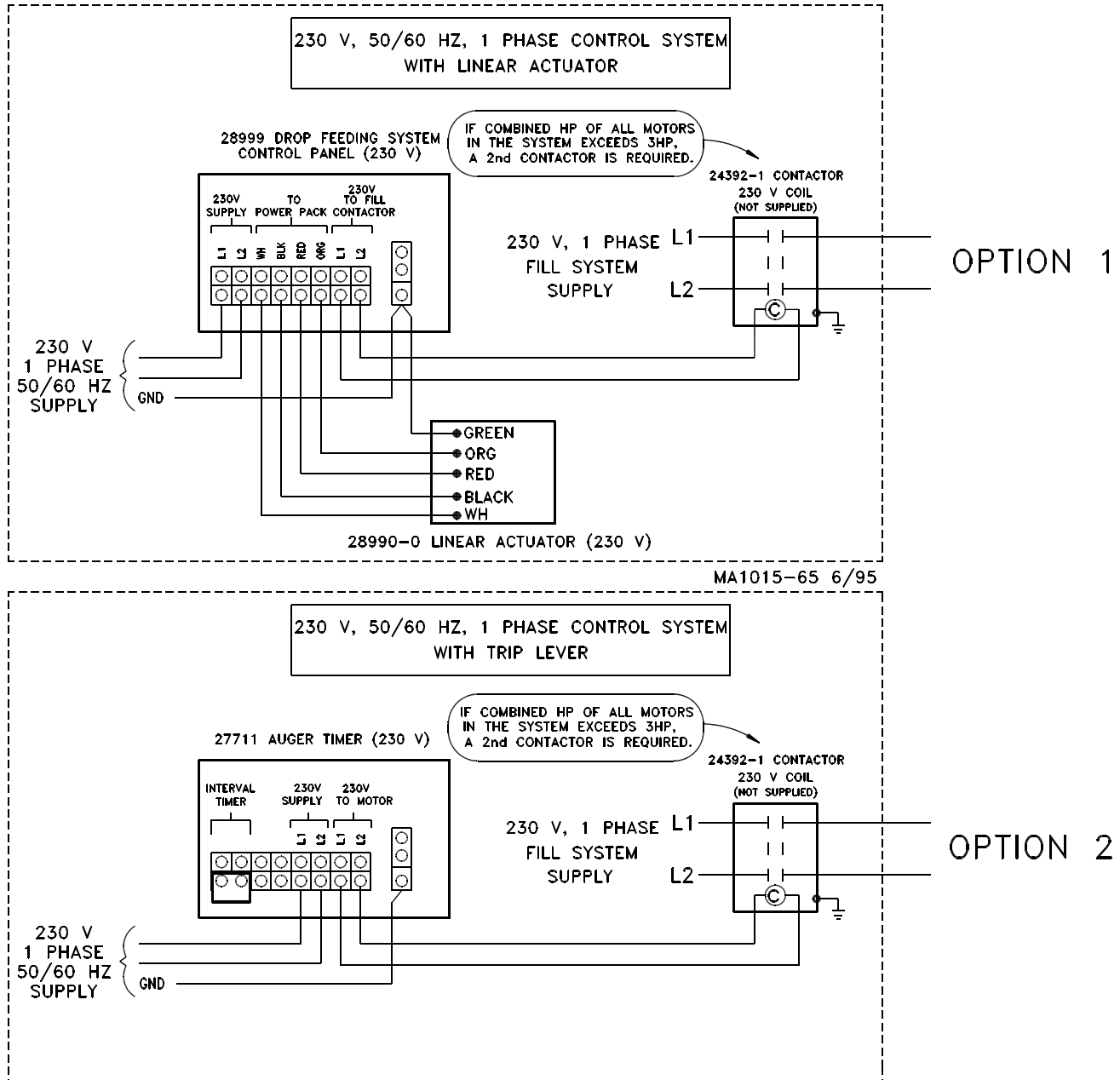
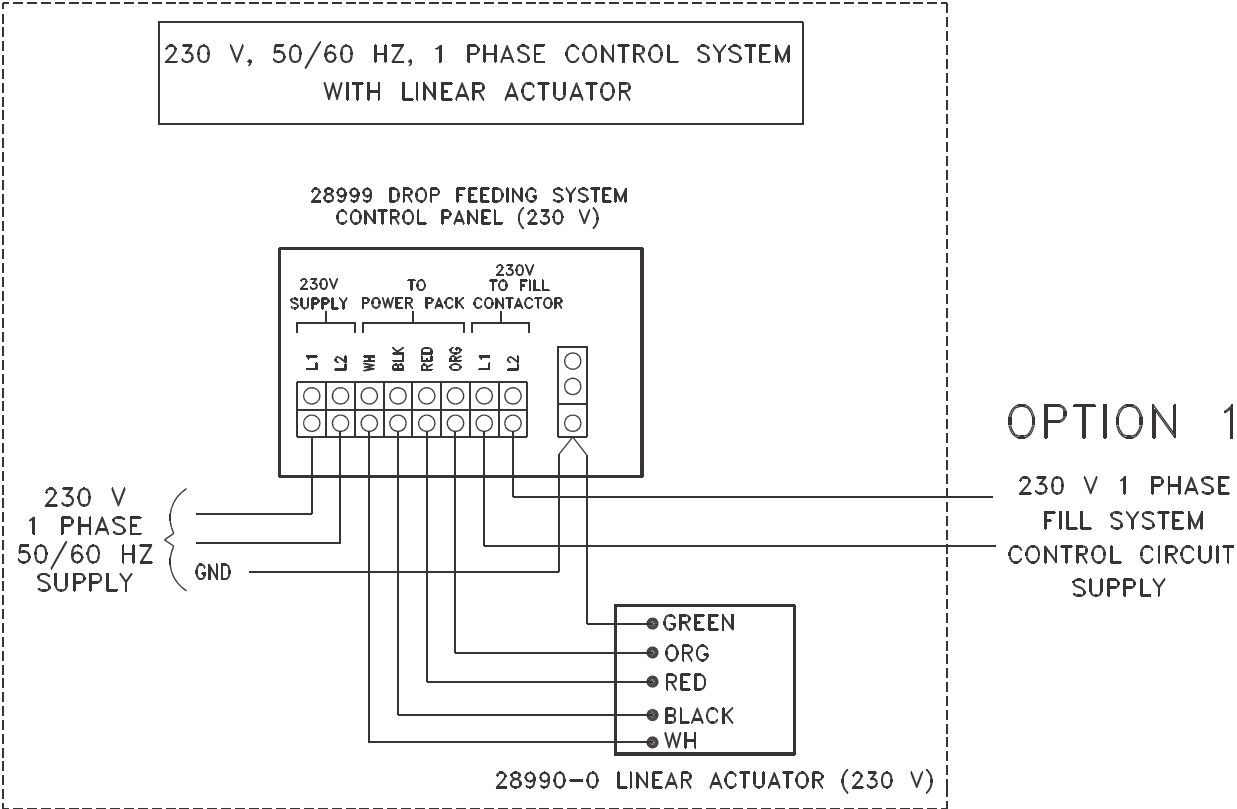


Figure 9.Circulating Flag System Layout (Alternate #3)

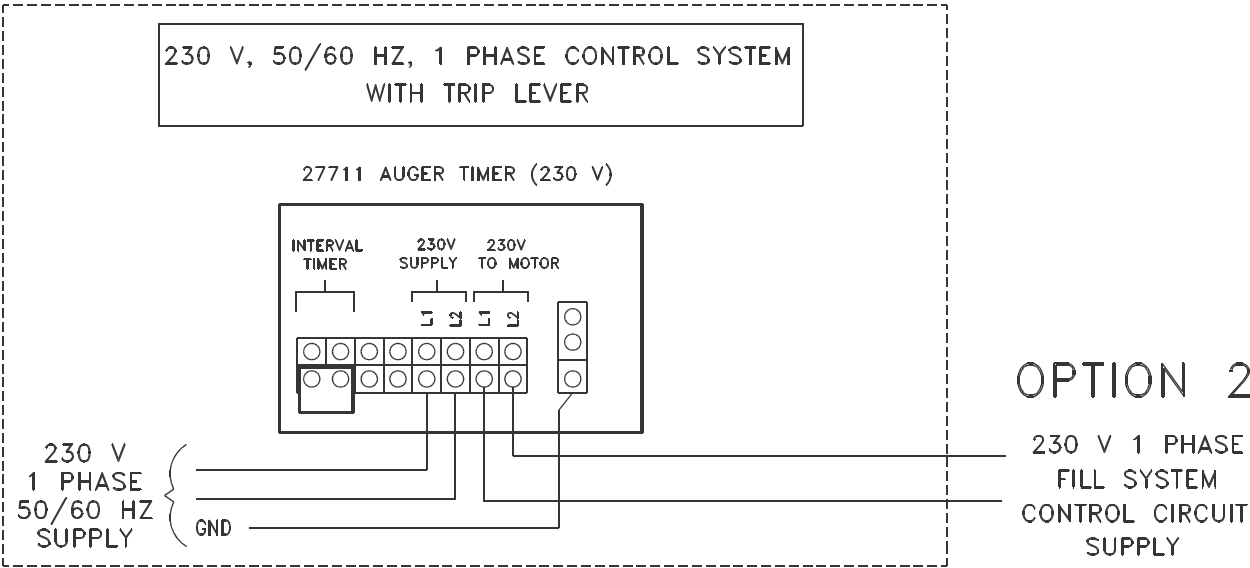
1-Phase Standard and Alternate #1 Flag System Wiring



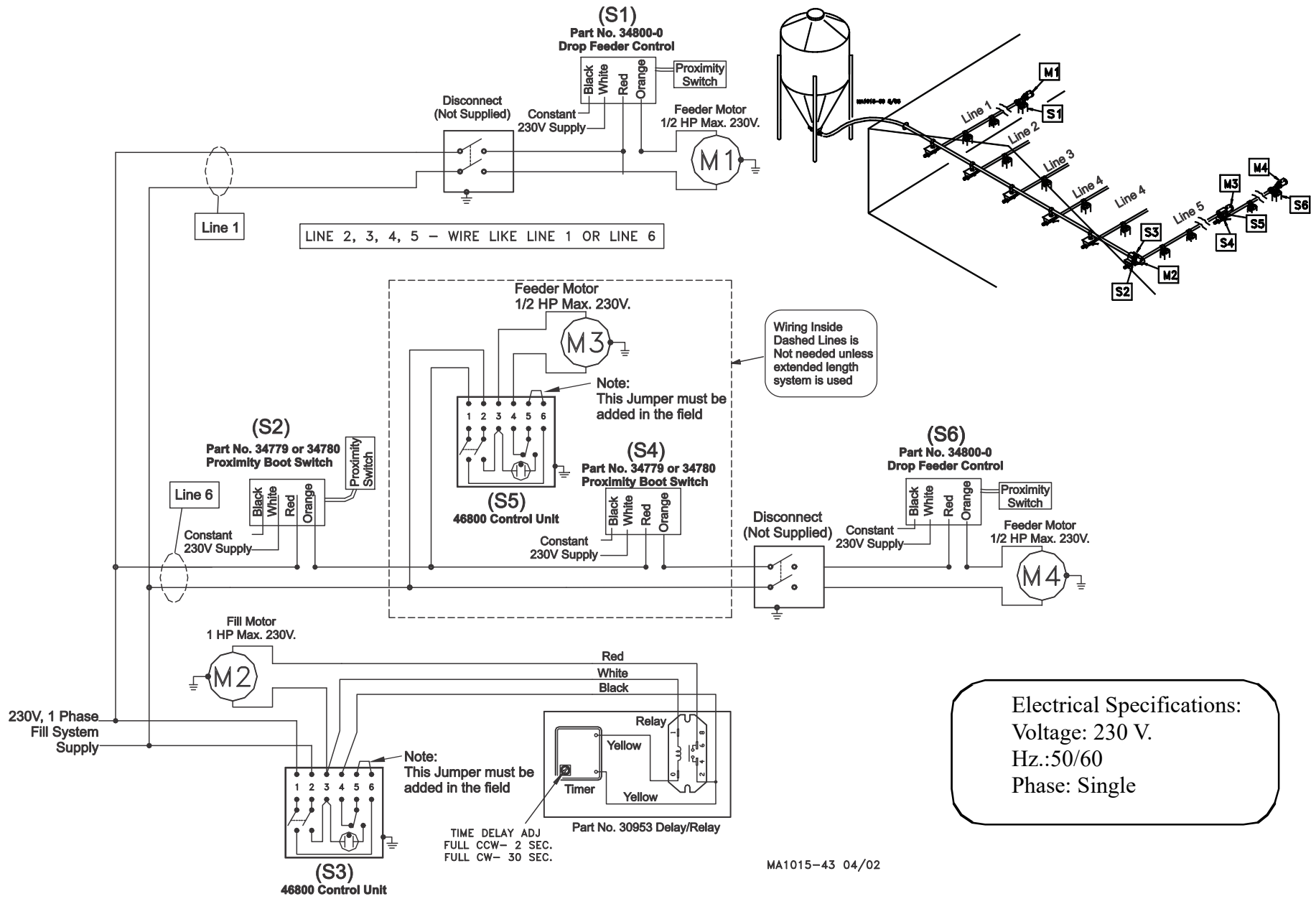
3-Phase Standard and Alternate #1 Flag Systems Wiring



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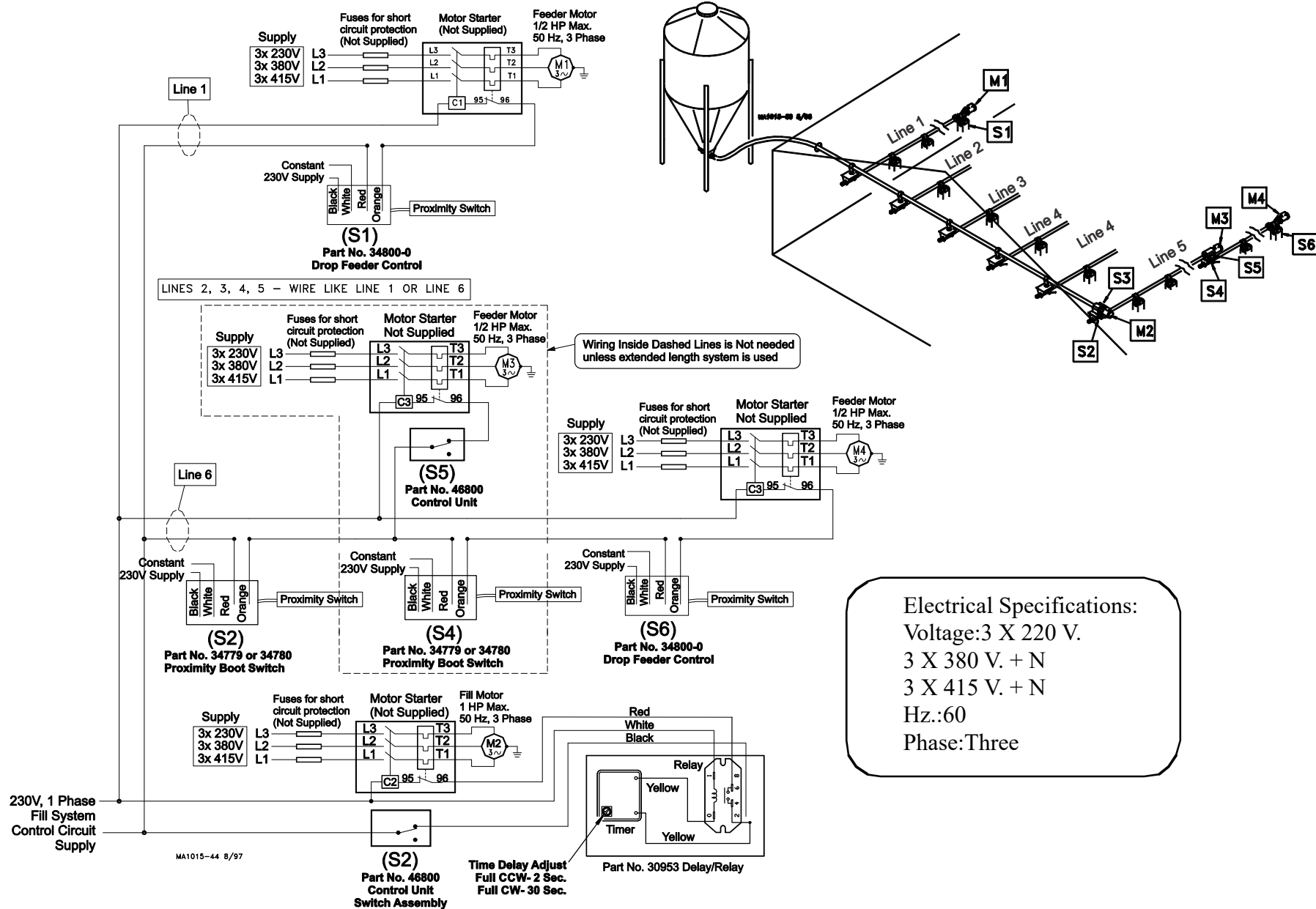


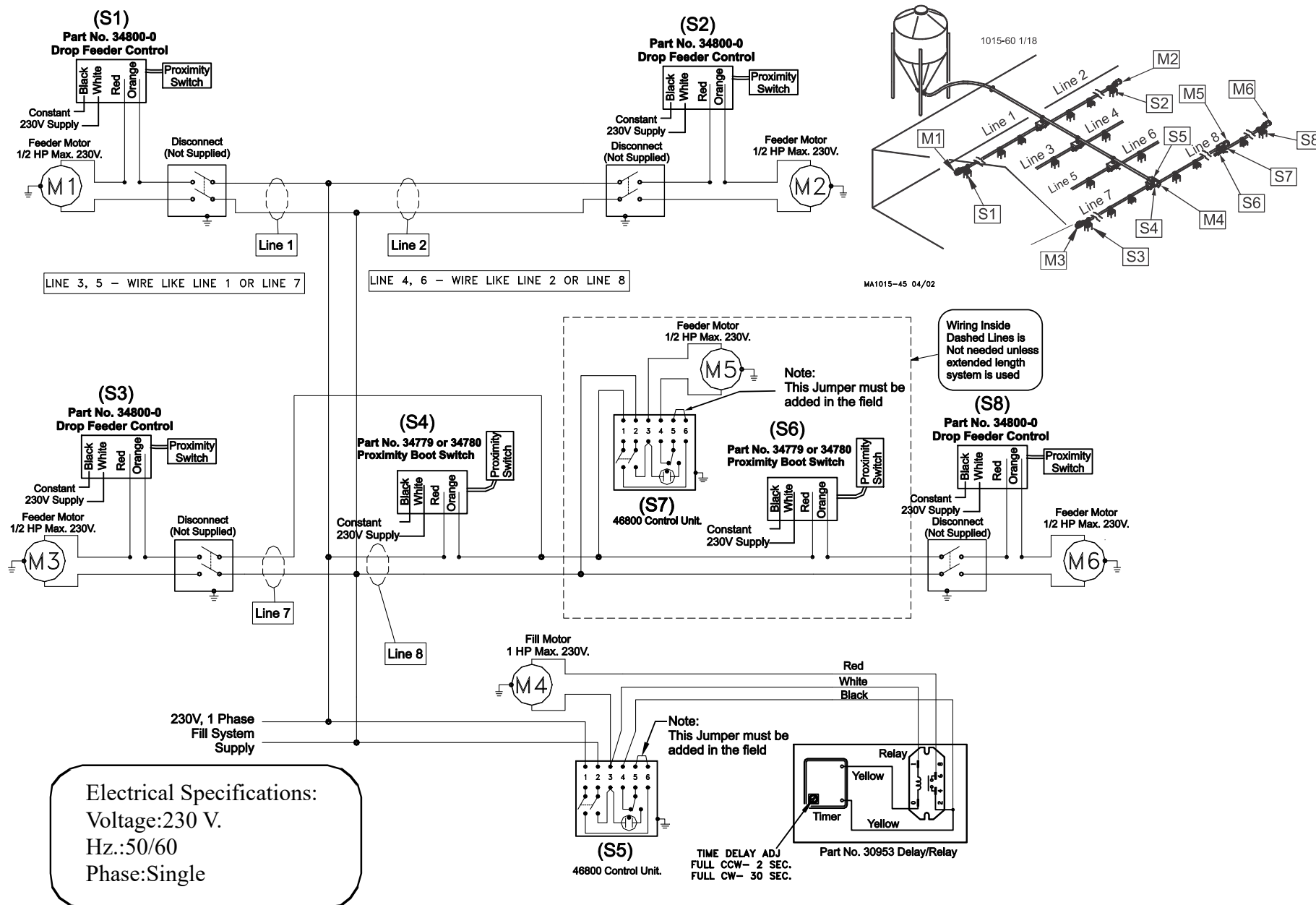
16 1-Phase Standard Flag Systems Wiring



MA1015-43 04/02

3-Phase Standard Flag Systems Wiring

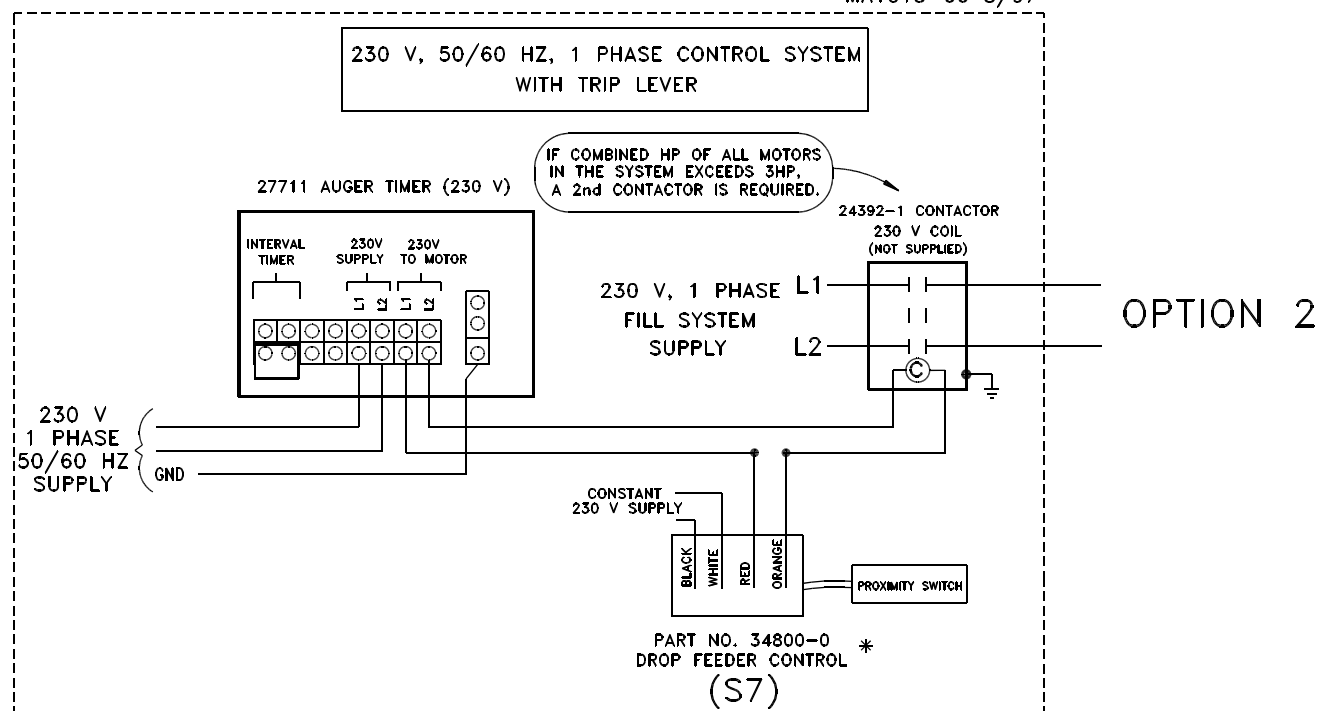
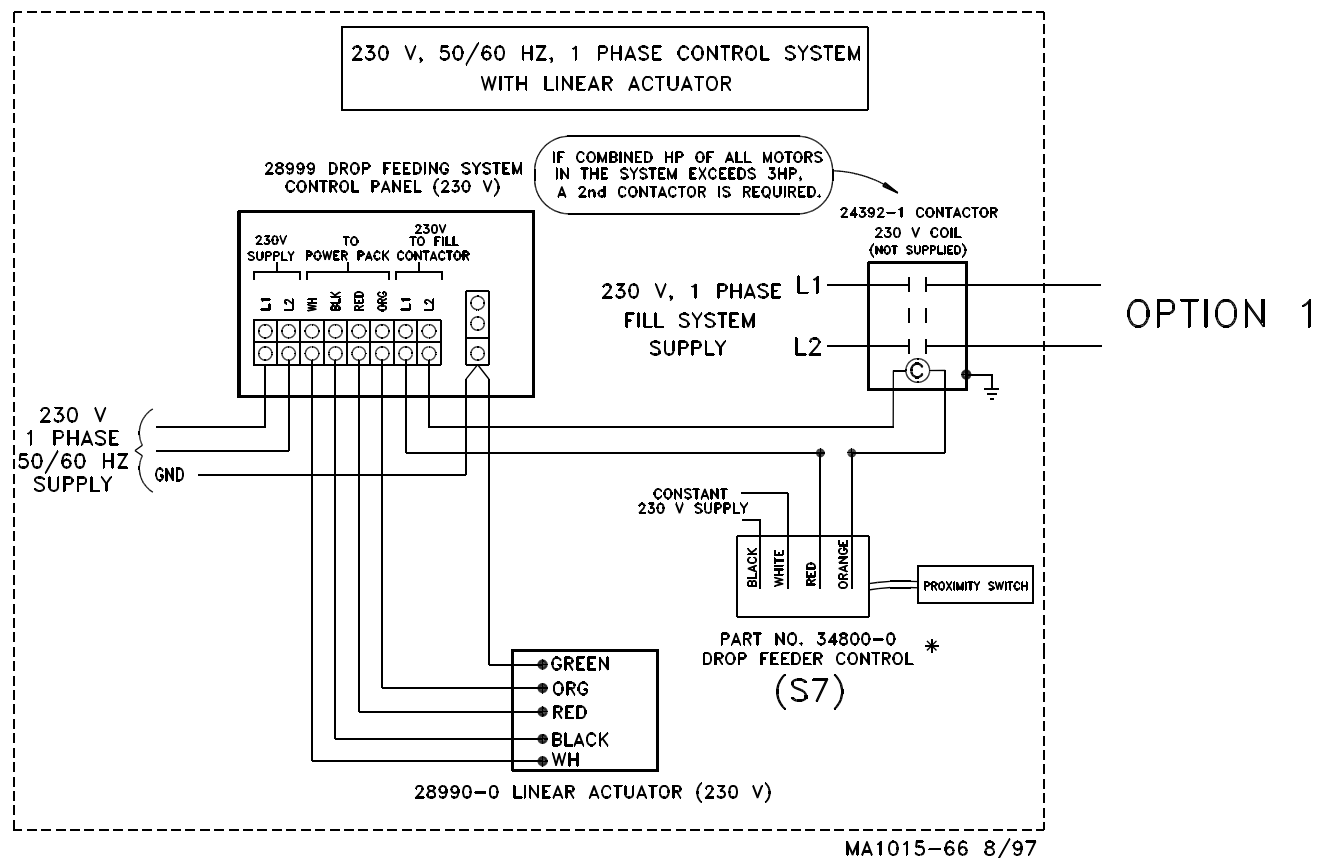




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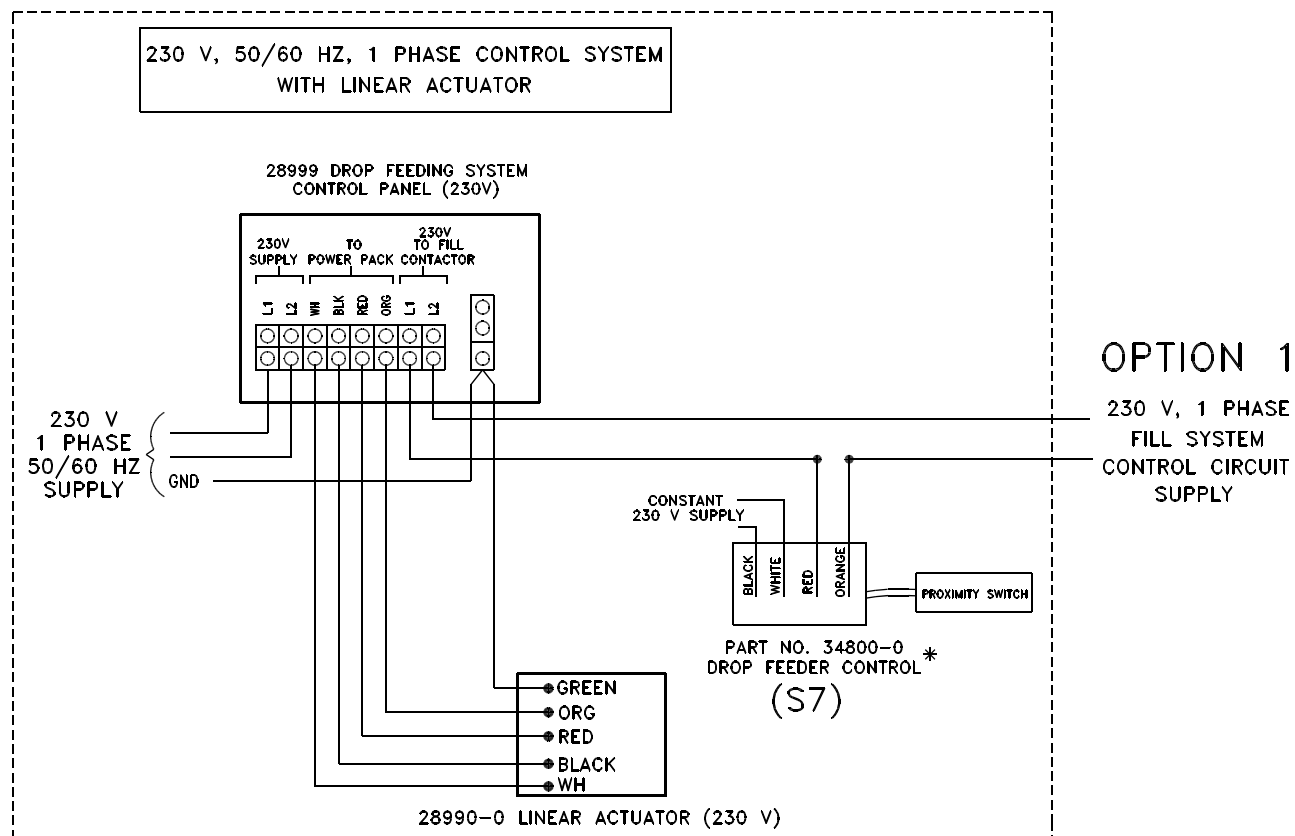


1-Phase Alternate #2, and #3 Flag Systems Wiring

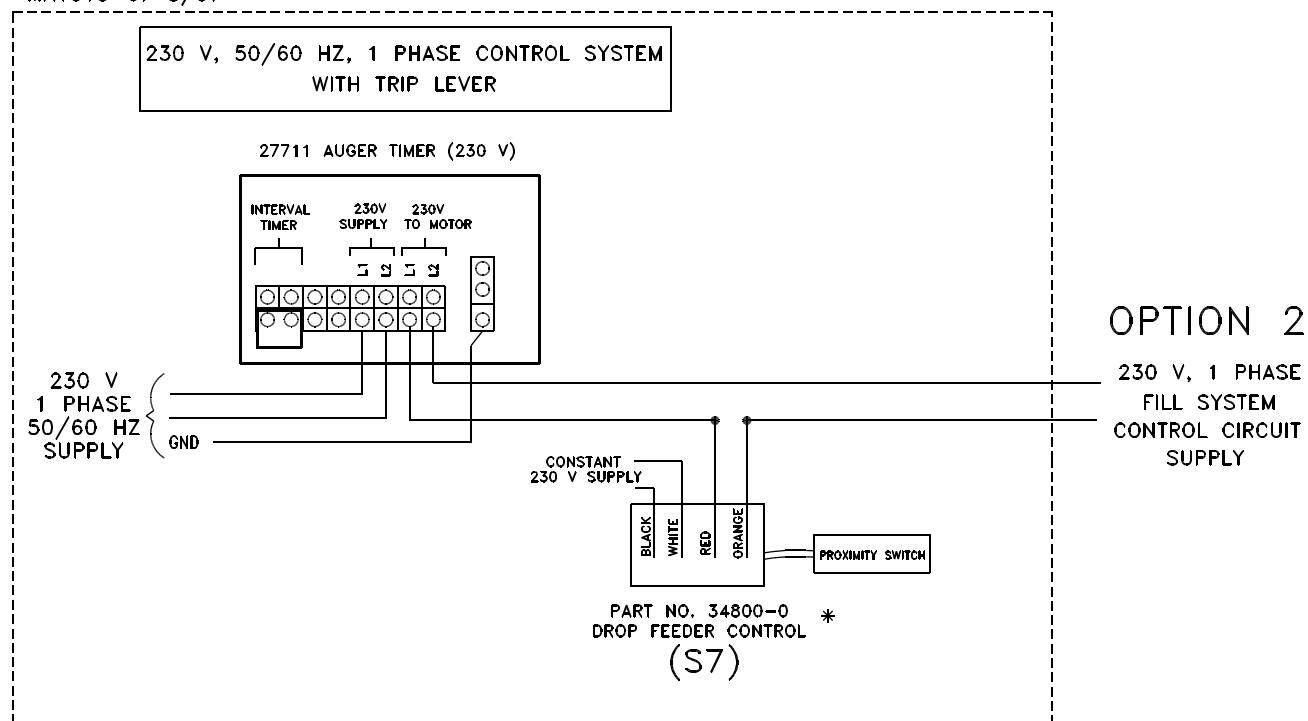


* CONTROL UNIT ON LINE REQUIRING LONGEST TIME TO FILL

3-Phase Alternate #2, and #3 Flag Systems Wiring

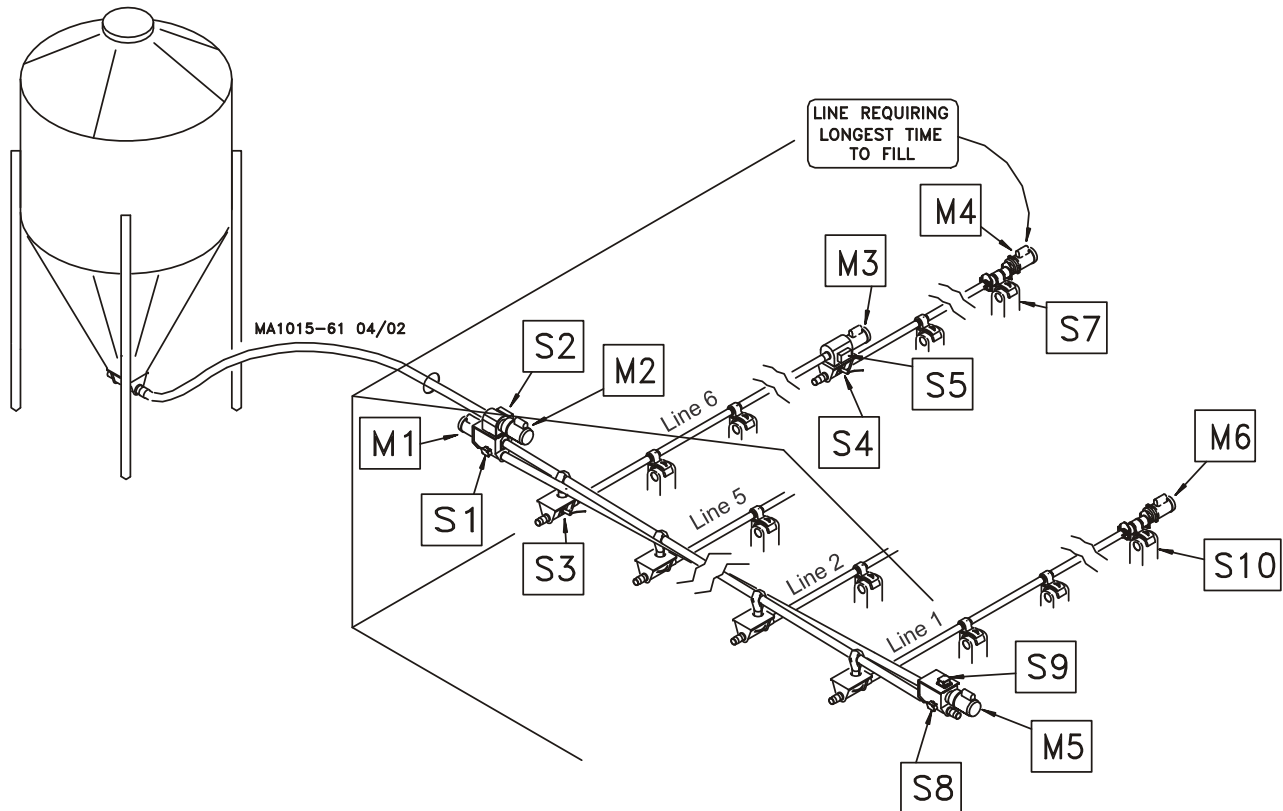


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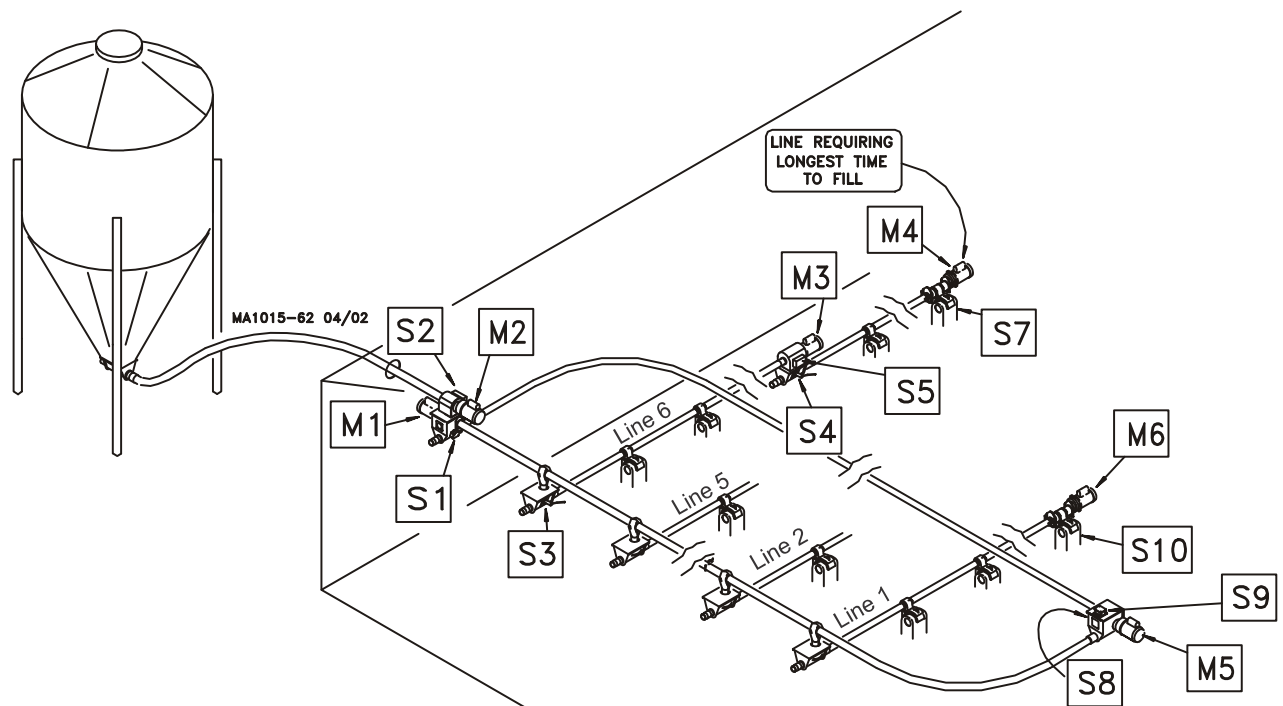


* CONTROL UNIT ON LINE REQUIRING LONGEST TIME TO FILL

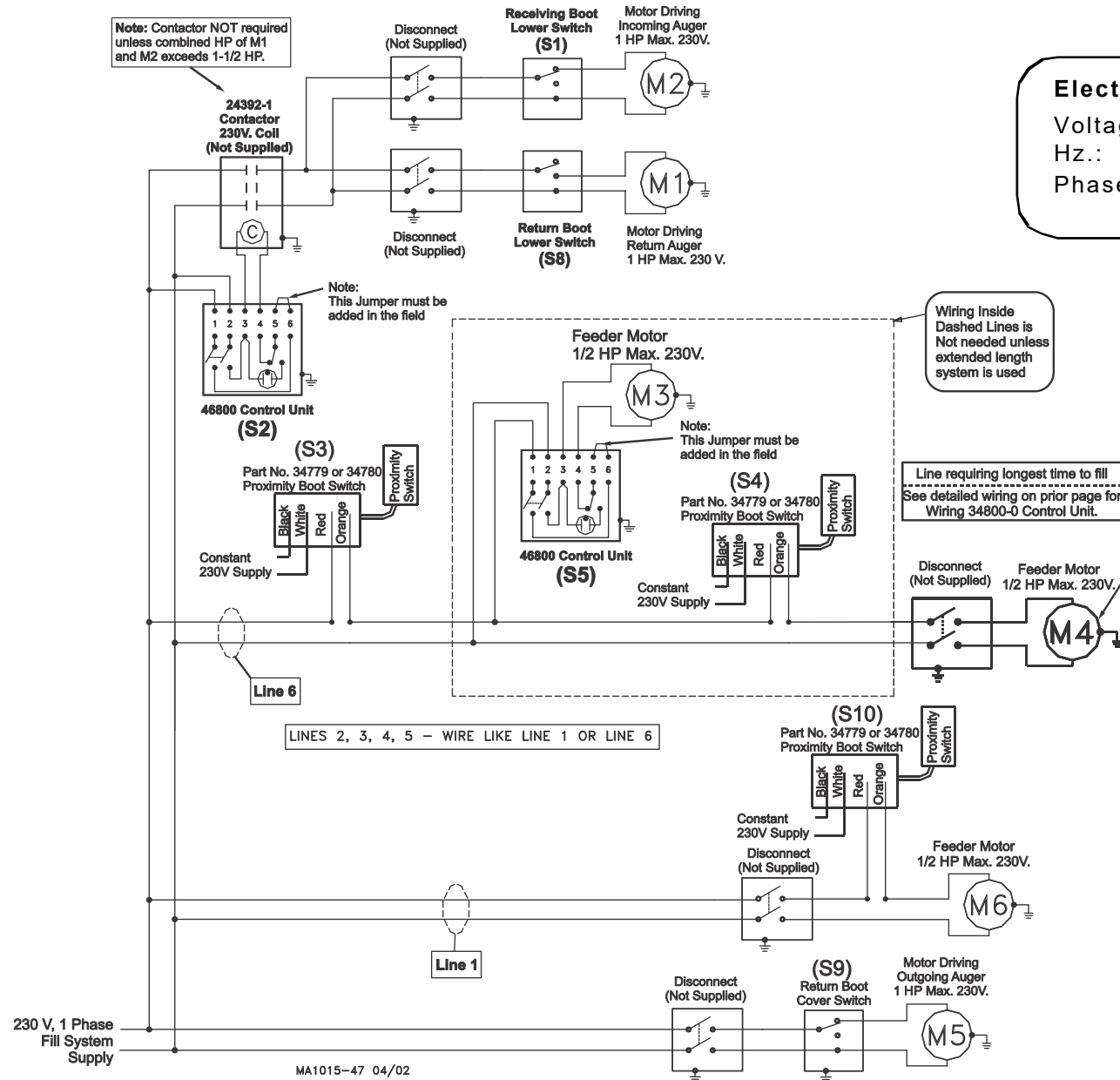
1-Phase Alternate #2 Flag Systems Wiring



1 Phase Alternate #3 Flag Systems Wiring



1-Phase Alternate #2 & #3 Flag Systems Wiring



Electrical Specifications:

Voltage: 230 V.

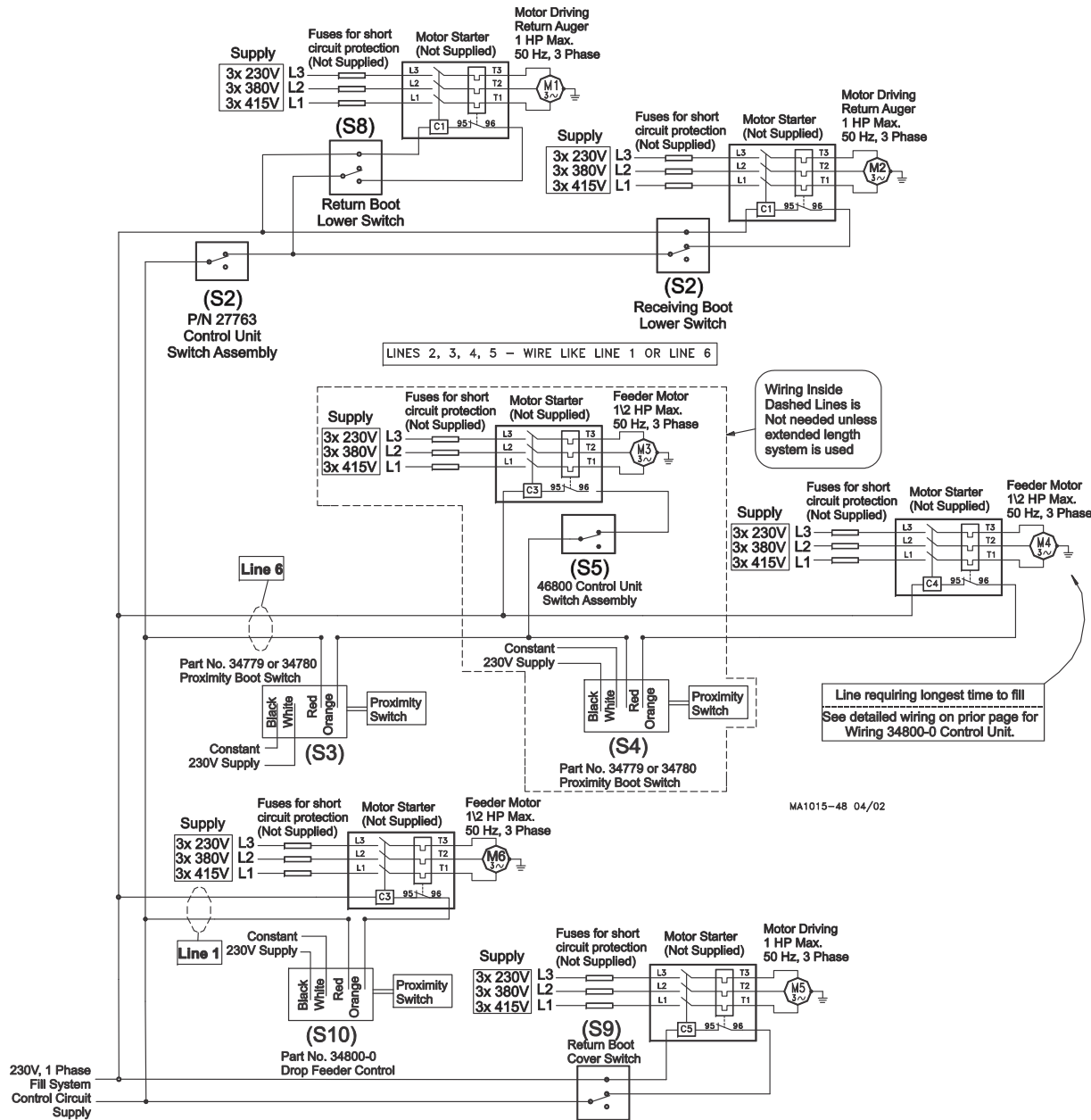
Hz.: 50/60

Phase: Single

Wiring Inside Dashed Lines is Not needed unless extended length system is used

Line requiring longest time to fill See detailed wiring on prior page for Wiring 34800-0 Control Unit.

3-Phase Alternate #2 & #3 Flag Systems Wiring



Electrical Specifications:

Voltage: 3 X 220 V

3 X 380 V + N

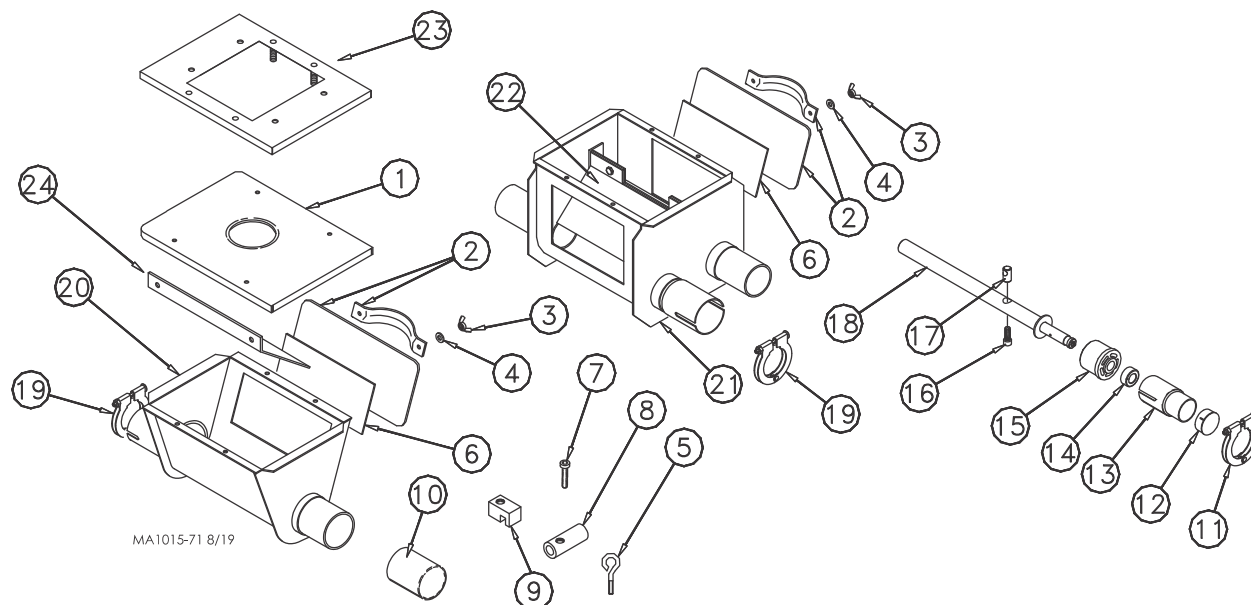
3 X 415 + N

Hz.: 60

Phase: Three

Parts Listing

Single (35727/35727SS) and Twin (35942/35942SS) Transfer Boot Ass'ys



		35727 Single Transfer Boot Assembly	35727SS Stainless Steel Single Transfer Boot Assembly	35942 Double Transfer Boot Assembly	35942SS Stainless Steel Double Transfer Boot Assembly
Item	Description	Part Number			
1	Transfer Cover	29872	29872SS	29872	29872SS
2	Clean-Out Cover	6197	6197SS	6197	6197SS
3	5/16-18 Wing Nut	2146	2146SS	2146	2146SS
4	Sealing Washer	8491	56308	8491	56308
5	1/4-20 Eyebolt	1928	1928SS	1928	1928SS
6	Back Plate Assembly	6298	6298SS	6298	6298SS
7*	1/4-20 x 2" Socket Hd C.S.	5083-4	5083-4	5083-4	5083-4
8*	Drive Tube	30932	30932	30932	30932
9*	Driver Block	4642	4642	4642	4642
10	5" Stub Tube	8555	8555	8555	8555
11	2" Clamp	29520	29520	29520	29520
12	Cap	29523	29523	29523	29523
13	Stub Tube	4163	4163SS	4163	4163SS
14**	Set Collar	1386	1386	1386	1386
15**	Anchor Bearing	39407	39407	39407	39407
16**	Socket Screw	6850-6	6850-6	6850-6	6850-6
17**	Auger Clamp	39205	39205	39205	39205
18**	Flag Anchor	39414	39414	39414	39414
19	Model 55 Tube Clamp	35726	35726	35726	35726
20	Boot Body Weldment (Single)	35646	35646SS	--	--
21	Boot Body Weldment (Twin)	--	--	35936	35936SS
22	Twin Flag Baffle	--	--	35941	35941SS
23***	Adapter Plate	45970	45970SS	45970	45970SS
24	Single Flag Boot Baffle	35646	35646SS	--	--
--	Danger Decal	2527-9	2527-9	2527-9	2527-9
*These items may be ordered as an Assembly (Part No. 30931) **These items may be ordered as an Assembly (Part No. 39408) ***The Adapter Plate is not included with the Transfer Boot Assemblies. It must be ordered separately.					

3259-X Fill System Power Units for Flag Systems

<u>Item</u>	<u>Description</u>	<u>3259-49</u> <u>Part No.</u>	<u>3259-51</u> <u>Part No.</u>	<u>3259-52</u> <u>Part No.</u>	<u>3259-77</u> <u>Part No.</u>	<u>3259-78</u> <u>Part No.</u>	<u>3259-79</u> <u>Part No.</u>	<u>3259-88</u> <u>Part No.</u>
1	Motor	6857	5050	5051	5050	5051	6857	6305
2	90 Degree Connector	4228	4228	4228	4228	4228	4228	4228
3	Anti-Short Bushing	6304	6304	6304	6304	6304	6304	6304
4	Pipe Plug	2755	2755	2755	2755	2755	2755	2755
5	Gearhead	3261-7	3261-7	3261-7	3261-10	3261-10	3261-6	3261-10
6	Vent Plug	3523	3523	3523	3523	3523	3523	3523
7	S Hook	4270	4270	4270	4270	4270	4270	4270
8	Pinion Assembly	6104	5046	5046	5046	5046	3249	5046
9	Magnetic Pipe Plug	30160	30160	30160	30160	30160	30160	30160

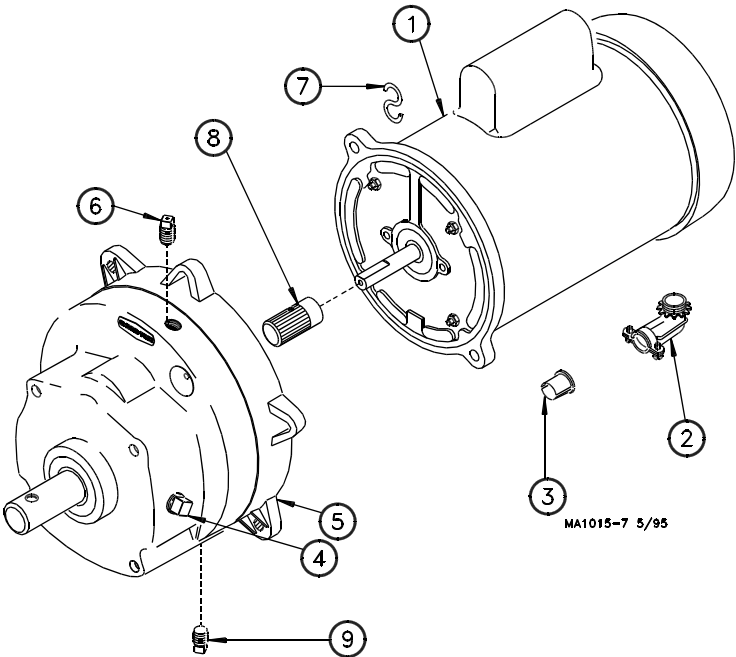
<u>Item</u>	<u>Description</u>	<u>3259-89</u> <u>Part No.</u>	<u>3259-103</u> <u>Part No.</u>	<u>3259-104</u> <u>Part No.</u>	<u>3259-105</u> <u>Part No.</u>
1	Motor	26157	28035	28034	28035
2	90 Degree Connector	4228	4228	4228	4228
3	Anti-Short Bushing	6304	6304	6304	6304
4	Pipe Plug	2755	2755	2755	2755
5	Gearhead	3261-10	3261-10	3261-10	3261-10
6	Vent Plug	3523	3523	3523	3523
7	S Hook	4270	4270	4270	4270
8	Pinion Assembly	6104	5046	5046	6104
9	Magnetic Pipe Plug	30160	30160	30160	30160

Power Unit Assembly Part Numbers:

<u>Part Number</u>	<u>HP</u>	<u>RPM</u>	<u>Phase</u>	<u>Hz</u>	<u>Voltage</u>
3259-49	1 HP	348 RPM	Single Phase	60 Hz	230
3259-51	1/2 HP	348 RPM	Single Phase	60 Hz	230
3259-52	3/4 HP	348 RPM	Single Phase	60 Hz	230
3259-77	1/2 HP	425 RPM	Single Phase	60 Hz	230
3259-78	3/4 HP	425 RPM	Single Phase	60 Hz	230
3259-79	1 HP	425 RPM	Single Phase	60 Hz	230
3259-88	3/4 HP	348 RPM	Single Phase	50 Hz	220
3259-89	1 HP	348 RPM	Single Phase	50 Hz	220
3259-103	1/2 HP	348 RPM	Three Phase	50 Hz	220/380-415
3259-104	3/4 HP	348 RPM	Three Phase	50 Hz	220/380-415

3259-1051 HP348 RPMThree Phase50 Hz220/380-415

3259-X Flag Line Power Units



<u>Item</u>	<u>Description</u>	<u>3259-34</u> <u>Part No.</u>	<u>3259-39</u> <u>Part No.</u>	<u>3259-98</u> <u>Part No.</u>	<u>3259-100</u> <u>Part No.</u>
1	Motor	4229	5703	5977	28031
2	90 Degree Connector	4228	4228	4228	4228
3	Anti-Short Bushing	6304	6304	6304	6304
4	Pipe Plug	2755	2755	2755	2755
5	Gearhead	3261-5	3261-5	3261-11	3261-11
6	Vent Plug	3523	3523	3523	3523
7	S Hook	4270	4270	4270	4270
8	Pinion Assembly	5046	5046	5046	5046
9	Magnetic Pipe Plug	30160	30160	30160	30160

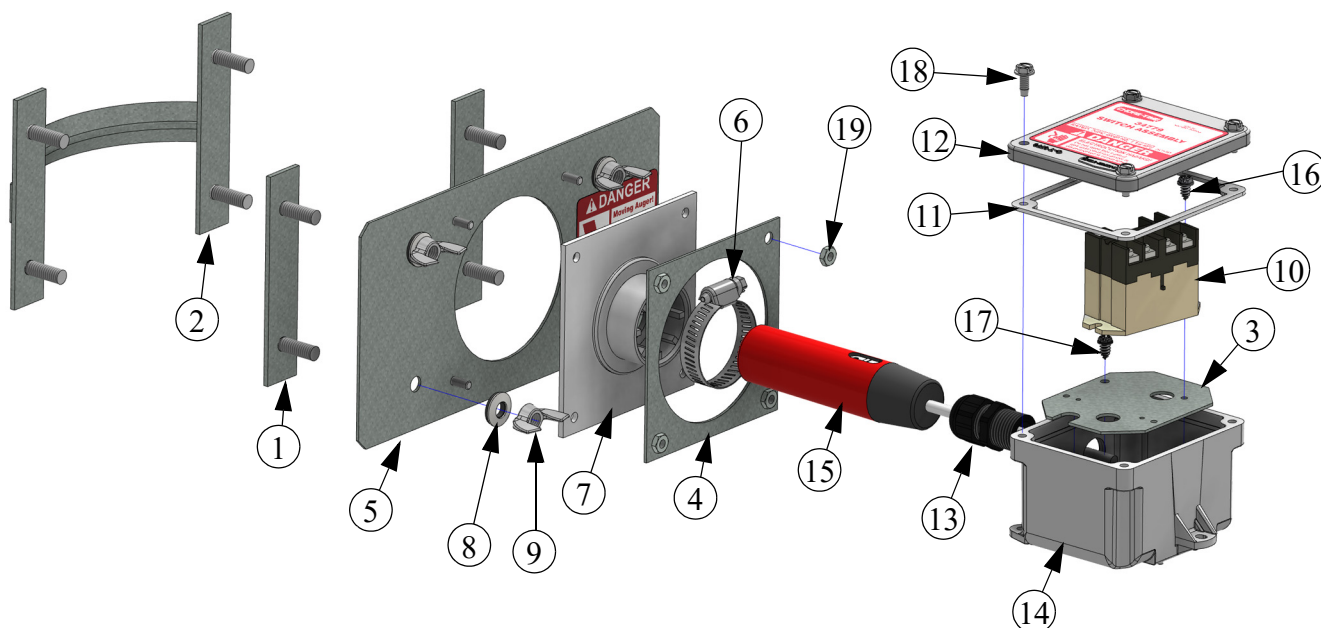
Power Unit Assembly Part Numbers:

<u>Part Number</u>	<u>HP</u>	<u>RPM</u>	<u>Phase</u>	<u>Hz</u>	<u>Voltage</u>
3259-34	1/3 HP	348 RPM	Single Phase	60 Hz	230
3259-39	1/2 HP	348 RPM	Single Phase	60 Hz	230
3259-98	1/2 HP	348 RPM	Single Phase	50 Hz	220

3259-1001/2 HP348 RPMThree Phase50 Hz220/380-415

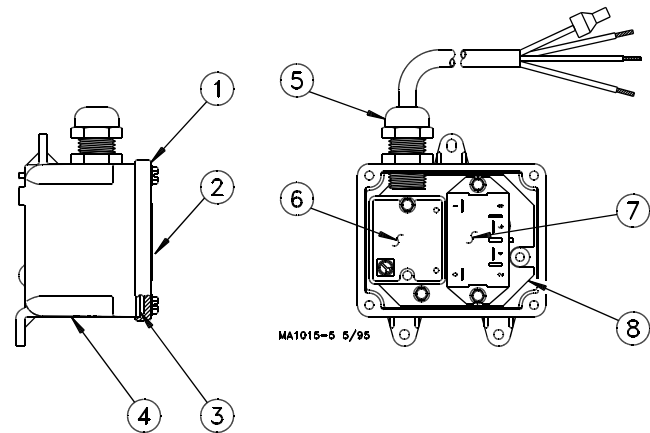
Proximity Boot Switch Assemblies

Double (34779/34779SS) & Single (34780/34780SS)



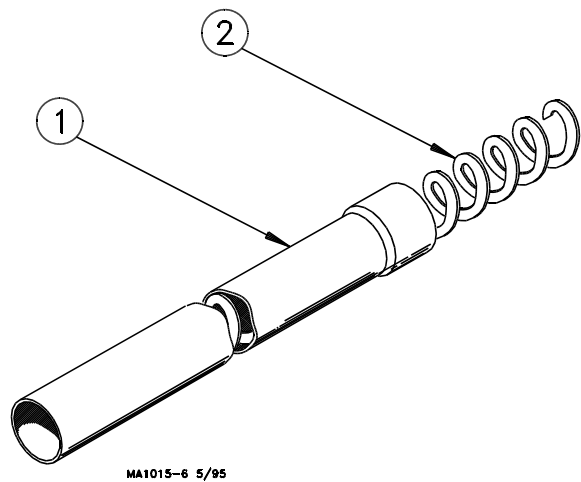
		34779 Flag & Twin Boot Prox. Switch	34779SS Stainless Steel Flag & Twin Boot Prox. Switch	34780 Single Boot Prox. Switch	34780SS Stainless Steel Single Boot Prox. Switch
Item	Description	Part Number			
1	Retainer Bracket	30942	30942SS	--	--
2	Retainer Bracket w/Handle	--	--	30943	30943SS
3	Box Plate	24321	24321	24321	24321
4	Window Plate	7842	7842SS	7842	7842SS
5	Switch Cover Plate	30941	30941SS	30941	30941SS
6	Adjustable Clamp	3527	3527	3527	3527
7	Proximity Plate Weldment	34758	34758	34758	34758
8	5/16 Weather Seal Washer	39-20155	39-20155	39-20155	39-20155
9	5/16-18 Wing Nut	2146	2146SS	2146	2146SS
10	230 V. Relay	34733	34733	34733	34733
11	Switch Box Gasket	6777	6777	6777	6777
12	Switch Box Cover	6776	6776	6776	6776
13	1/2" Liquid Tight Connector	23779	23779	23779	23779
14	Switch Box	24702	24702	24702	24702
15	Proximity Switch	34255	34255	34255	34255
16	#8 x .375 Screw	13019	13019	13019	13019
17	6-20 x .375 Screw	6782	6782	6782	6782
18	#10 x .5 Screw	28075	28075	28075	28075
19	10-32 Hex Nut	4297	35681	4297	35681

Delay Relay Kit (Part No. 30953)



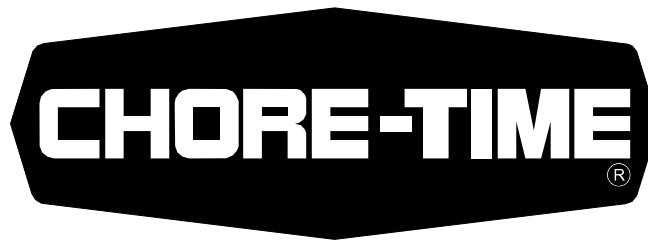
Key	Description	Part No.
1	Switch Box Cover	6776
2	Decal	2529-400
3	Gasket	6777
4	Switch Box	33814
5	1/2" Liquid Tight Connector	23779
6	ON Delay Timer	24411
7	Relay	24335
8	Box Plate	24321

Miscellaneous Components



Key	Description	Part No.
1	10' PVC Tube	7955
2*	Auger	25058F-0
--	Extension Boot Control Unit	6500-8

*Auger may be ordered in lengths from 50 ft. (15.2 m) to 400 ft. (122 m). Example: 25058F-150 would represent 150 ft. (45.7 m) of 25058F Auger.



**MADE TO WORK.
BUILT TO LAST.®**

Revisions to this Manual

Page No.	Description of Change	ECO
Various	Reformatted and added Stainless Steel Parts	34257

**For additional parts and information, contact your nearest Chore-Time distributor or representative.
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