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### **Chore-Time Warranty**

Chore-Time Group, a division of CTB, Inc. ("Chore-Time") warrants new CHORE-TIME Cage and Cage Components 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"). 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.

#### CONDITIONS AND LIMITATIONS

THIS WARRANTY CONSTITUTES CHORE-TIME'S ENTIRE AND SOLE WARRANTY AND CHORE-TIME EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES, INCLUDING, WIHTOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES. CHORE-TIME shall not be liable for any direct, 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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<sup>\*</sup>Legend: C = Customer (end user), D = Distributor (sales), I - Installer of equipment

## **Support Information**

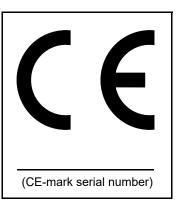
Using this equipment for any other purpose or in a way not within the operating recommendations specified in this manual will void the warranty and may cause personal injury.

This manual is designed to provide comprehensive planning, installation, 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 personnel, installer, and consumer (end user).

Refer to Chore-Time Model 55/75/90/HMC Installation Manual for additional installation, operation, and parts listing information.

IMPORTANT: **CE stands for certified Europe.** It is a standard which equipment must meet or exceed in ordered 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. *Fill in the CE-Mark serial number in the blank space provided for future reference.* 



### **Distributor and Installer Information**

	ing information about your Product. 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	

# 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 and or damage to the equipment.

### Safety–Alert Symbol

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



### 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, <b>COULD</b> result in death or serious injury.
CAUTION	indicates a hazardous situation which, if not avoided, <b>MAY</b> result in minor or moderate injury.



### **DANGER: Moving Auger**

This decal is placed on the Panel Weldment.

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



#### A DANGER

**Moving Auger!** Disconnect electrical power before working on system, equipment may start automatically. Otherwise severe personal injury will result.

2527-9

### **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.



### **Notice of Caution**



Caution!

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

### Introduction

The extended length Model 55, 75, 90, & HMC FLEX-AUGER Feed Delivery Systems are used to increase the total length of the system in applications where this is required.

The Extension Boot Kits may be used with Model 55—1/3, 1/2 H.P. Power Units. Model 75, 90, and HMC—1/2, 3/4, 1 H.P. Power Units.

Maximum lengths for the standard system and Extended Length Systems with various power unit are shown in the chart below.

	Mod	el 55	Mod	lel 75	75 Model 90		Model HMC	
Motor Size	Max. Standard	Max. Extension	Max. Standard	Max. Extension	Max. Standard	Max. Extension	Max. Standard	Max. Extension
1/3 H.P.	150 Feet (46 M)	185 Feet (56 M)	n//a	n/a	n/a	n/a	n/a	n/a
1/2 H.P.	250 Feet (76 M)	285 Feet (87 M)	80 Feet (24 M)	125 Feet (38 M)	30 Feet (9 M)	65 Feet (20 M)	30 Feet (9 M)	55 Feet (17 M)
3/4 H.P.	n/a	n/a	150 Feet (46 M)	185 Feet (56 M)	90 Feet (27 M)	125 Feet (38 M)	90 Feet (27 M)	105 Feet (32 M)
1 H.P.	n/a	n/a	200 Feet (61 M)	245 Feet (75 M)	150 Feet (46 M)	185 Feet (56 M)	150 Feet (46 M)	185 Feet (56 M)

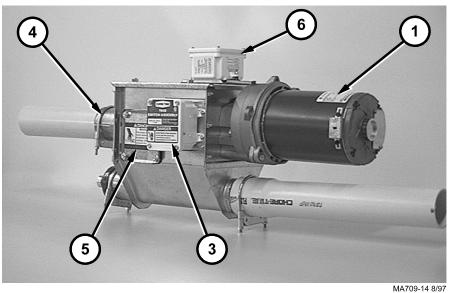
Maximum length recommendations for standard systems include use of two 45 degree elbows. No elbows are included in the recommendations for maximum length of extension systems. If additional elbows are required, decrease the length recommendations by 30 feet (9 m) for each additional 90 degree turn.

### **Planning the Installation**

By moving the **Window Plate**, **Cover Plate**, **Tube Anchor**, **Level Switch Assembly**, and **Power Unit**, it is possible to extend the system in a straight line or use the Extension Boot to replace elbows making a 90 degree turn where that is convenient.

The Safety Switch should be located toward the outlet end of the boot on all applications.

**Figures 1-6 (pages 7-9)** shows that by moving several components to different locations the Extension Boot may be used to turn right hand, left hand, or extend a straight line system.



#### **Straight Line Application**

Figure 1. Side View of a Straight Line Application

Key	Description	Part No.
1	Power Unit	
3	Level Switch Assembly	7840
4	Incoming Tube Anchor Model 55 Model 75 Model 90, HMC Seal	35531 6518 5069 4873
5	Cover Plate Seal	4878 4873
6	Safety Switch Assembly	7840

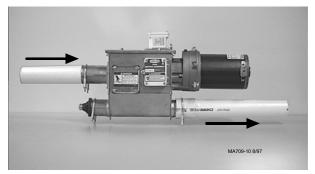
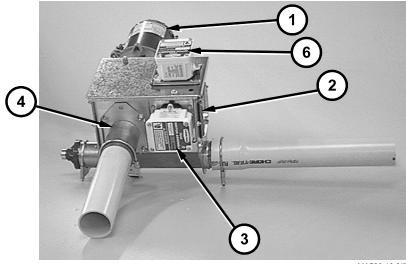


Figure 2. Side View of a Straight Line Application — arrows indicating feed flow

### **Right Hand Turn Application**



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Figure 3. Side View of a Right Hand Application

Key	Description	Part No.
1	Power Unit	—
2	Window Plate	7842
	Window	7852
	Seal	4873
3	Level Switch Assembly	7840
4	Incoming Tube Anchor	
	Model 55	35531
	Model 75	6518
	Model 90, HMC	5069
	Seal	4873
6	Safety Switch Assembly	7840

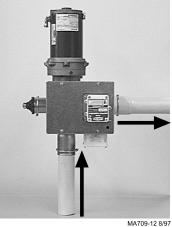


Figure 4. Top View Right Hand Application — arrows indicating feed flow

#### Left Hand Turn Application

The Power Unit will not mount beside the switch (as boot is shipped) for left hand turn applications. Left hand turn applications will require moving the Level Switch to the Access Plate location over the outlet end of the boot as shown in **Figure 5**.

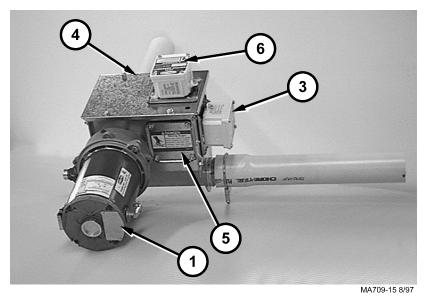


Figure 5. Side View of a Left Hand Application

Key	Description	Part No.
1	Power Unit	_
3	Level Switch Assembly	7840
4	Incoming Tube Anchor	
	Model 55	35531
	Model 75	6518
	Model 90, HMC	5069
	Seal	4873
5	Cover Plate	4878
	Seal	4873
6	Safety Switch Assembly	7840



Figure 6. Top View Left Hand Application — arrows indicating feed flow

### **Installation Instructions**

1. Attach the (incoming) Tube Anchor to the Extended Length Boot, using hardware supplied.

Place a Tube Clamp on the Tube Anchor.

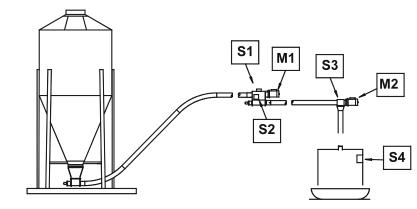
- 2. Mount the Power Unit on the Boot, using 5/16-18 hardware supplied.
- 3. The Extension Hopper should be located near the center of the auger line to balance the load on the systems.

Suspend the Extension Hopper/Power Unit from the ceiling. The Extension Hopper, Power Unit, and feed will weigh approximately 90 pounds (40.1 kg). Adequate support must be provided to prevent sagging at the Extension Hopper location.

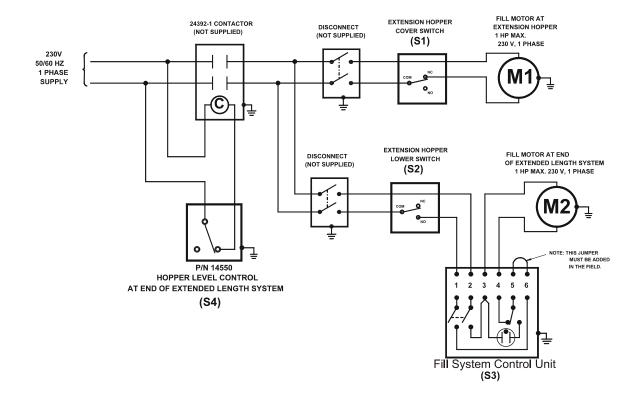
Support the Boot securely, using the "ears" on the Power Unit, chain and screw hooks to suspend the Extension Hopper.

- 4. Install the incoming and outgoing auger tubes to the Tube Anchor and Boot Anchor on the Extension Hopper.
- 5. Install the remaining fill system components as specified in the FLEX-AUGER Fill System Manual .
- 6. A full length Restrictor Tube is provided with the Extension Hopper. The Restrictor Tube may need to be shortened to match the outgoing feed with the incoming feed. Refer to the instructions on shortening the Restrictor in the FLEX-AUGER Fill System Manual .
- 7. Refer to the wiring diagrams for proper wiring information for the Extension Hopper.

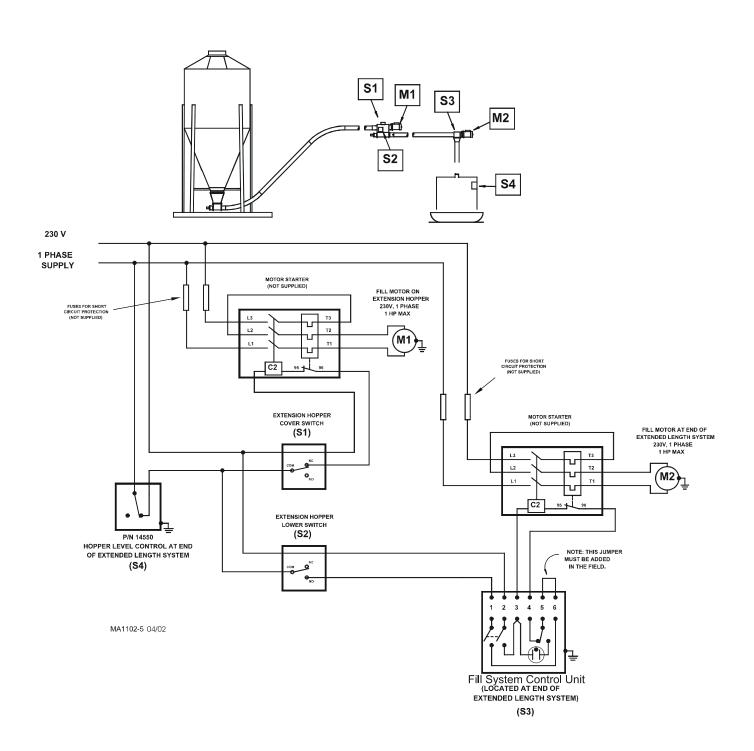
## Extension System Wiring Diagram (Single Phase, 230 V, 50/60Hz, w/o Motor Starters)



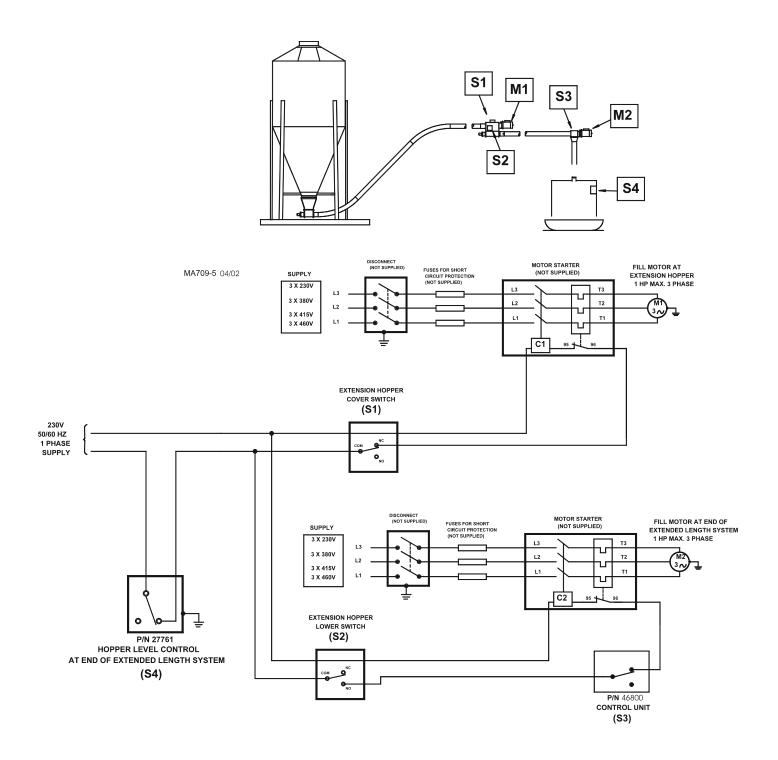
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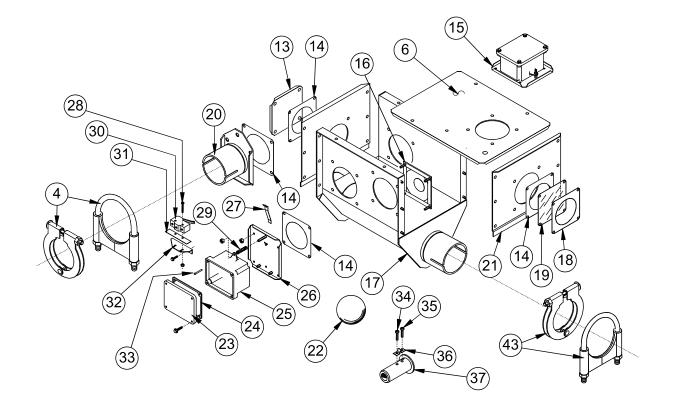


## Extension System Wiring Diagram (Single Phase, 230 V, 50/60Hz, w/ Motor Starters)

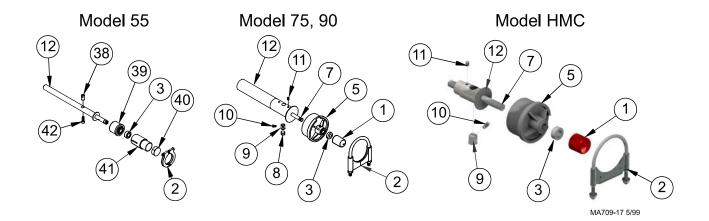


## Extension System Wiring Diagram (Three Phase, 220/380/415/460 V, 50/60 Hz, w/ Motor Starters)





# **Extension Hopper Parts Diagram**



# **Extension Hopper Parts Listing**

Key	Description	Part No.
1*	Safety Cap (Model 75, 90, HMC)	29702
2	Tube Clamp Kit (Model 55)	29520
	Tube Clamp Kit (Model 75	4141
	Tube Clamp Kit (Model 90, HMC)	6721
3*	5/8" Set Collar	1386
4	Tube Clamp Kit (Model 55)	35726
	Tube Clamp Kit (Model 75)	6515
	Tube Clamp Kit (Model 90, HMC)	6721
5*	Bearing Cap Assembly (Model 75)	35440
C de de de	Bearing Cap Assembly (Model 90, HMC)	34830
6***	Cover Assembly	7839
7*	Universal Anchor Shaft	43281
8*	Clamp Spacer (Model 90)	5009
9*	Clamp Pin (Model 75, 90, HMC)	4702
10*	5/16-18 x 1/2" Set Screw	5095
	(Model 75, 90, HMC)	
11*	5/16-18 x 3/8" Set Screw	1174
-	(Model 75, 90, HMC)	
12*	Anchor Weldment	20410
	(Model 55)	39410
	(Model 75 (Model HMC) Non Restricted	6840 36393
	(Model 90)	6833
13	Cover Plate	4878
14**	Seal	4873
15	Switch and Plate Assembly	7840
16	Diaphragm Assembly	7900
17	Boot Body Weld. (Model 55)	40168
	Boot Body Weld. (Model 75)	7878
	Boot Body Weld. (Model 90, HMC)	28881
18	Window Plate	7842
19	Window	7852
20	Tube Anchor Weldment (Model 55)	35531
	Tube Anchor Weldment (Model 75)	6518
	Tube Anchor Weldment (Model 90, HMC))	5069
21	Access Panel Assembly	7928
22	Cannonball (Model 55)	3621
	Cannonball (Model 75, 90, HMC)	3531
23**	Switch Box Cover	6776
24**	Gasket	6777

	Description	Part No.
25**	Switch Box	7841
26**	Switch Mounting Plate	7908
27**	Paddle	7896
28**	6-32 x 7/8" Pan Hd. Screw	1921
29**	Compression Spring	6972
30**	SPDT Actuator Switch	7114
31**	Switch Insulation	1907-5
32**	Switch Bracket	7068
33**	1/8 x 1" Rd Hd Rivet	8757
34	5/16-18 X 1/2 Socket Hd Screw	6850-3
35	5/16-18 x 2-1/4 Socket Hd Screw	6850-4
36	Anchor Block	7703
37	Driver Weldment	
	(Model 75, HMC)	7704
	(Model 90)	7706
*38	Auger Clamp (Model 55)	39205
*39	Anchor Bearing (Model 55)	39407
40	Cap (Model 55)	29523
41	Stub Tube (Model 55)	4163
*42	Socket Head Screw (Model 55)	6850-7
43	Tube Clamp Kit (Model 55)	29515
	Tube Clamp Kit (Model 75)	6515
	Tube Clamp Kit (Model 90)	6721
Part N	lumbers for Complete Extension	
Hoppe		
Model 55 Kit		40170
Mod	7944	
Mod	7869	
Mod	el HMC Kit	7849

\* These Anchor and Bearing components may be ordered as an assembly under the following Chore-Time part numbers:

Model 55: #39405 Model 75: #37346 Model 90: #35343 Model HMC: #37241

\*\* These Switch and Plate components may be ordered as an assembly under Chore-Time part number #7840

\*\*\* The #7839 Cover Assembly includes items 14, 15, and 16 and the required hardware.



Made to work. Built to last.<sup>™</sup>

#### MADE TO WORK.

#### **BUILT TO LAST.®**

#### **Revisions to this Manual**

Page No.	Description of Change	ECO
14	Added updated Non-Restricted Anchor HMC Parts	33213
2	Updated Warranty	

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

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