



# *Poultry Production Systems*

## **30 Deg. Two Motor Tandem**

### **Installation Instructions**

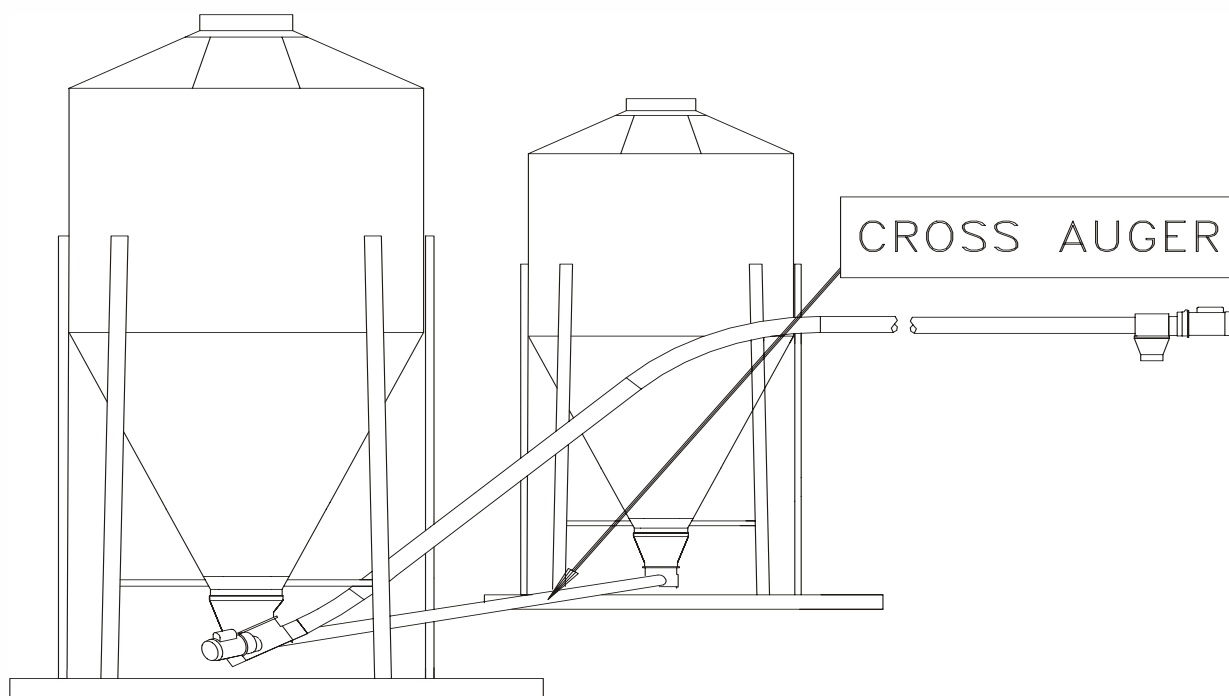
for

**Model 75, 90, & HMC FLEX-AUGER**

**Feed Delivery Systems**

Installation and Operators Manual

Installation and Operators Manual



MA524-4 04/02

## The Chore-Time Warranty

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.

# 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.

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.

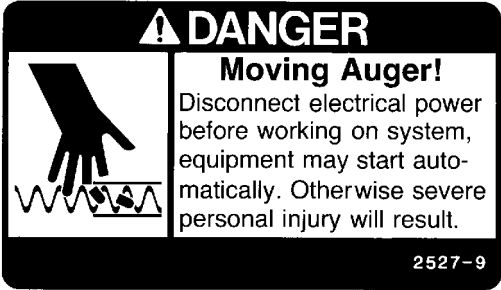
CAUTION ..... indicates a hazardous situation which, if not avoided, MAY result in minor or moderate injury.



## 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

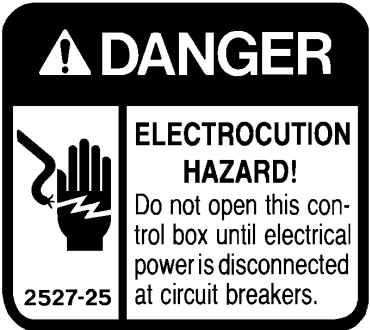
Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically state otherwise.

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.

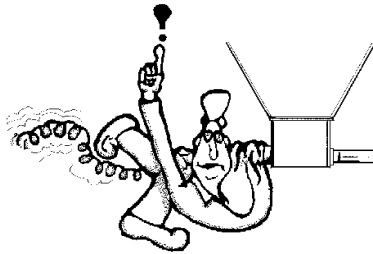


**SAFETY INFORMATION**



**CAUTION**

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



**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 and/or death.

This manual is designed to provide installation, wiring, and parts listing information.

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.

Refer to Chore-Time Model 55/75/90/HMC Installation Manual (MA1000) for additional installation, operation, and parts listing information.

***Two Motor Tandem Systems (Model 75, 90, & HMC Only)***

PLAN CAREFULLY BEFORE BEGINNING TO INSTALL THE TWO MOTOR TANDEM FLEX-AUGER SYSTEM.

Pour one level concrete pad for BOTH bins. Pad dimensions and specifications should meet bin manufacturer's requirements. Position the bins so that legs will not interfere with the FLEX-AUGER installation.

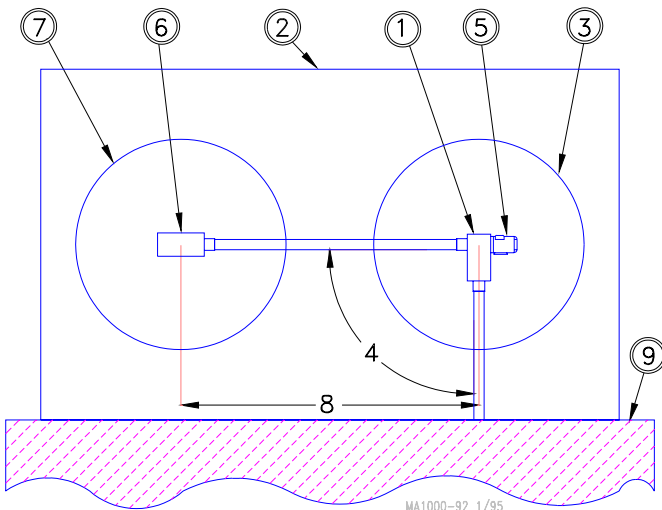


Figure 1.

| Key | Description                 | Key | Description                |
|-----|-----------------------------|-----|----------------------------|
| 1   | 30 Degree Intermediate Boot | 6   | Straight-Out Terminal Boot |
| 2   | One level concrete pad      | 7   | Terminal Bin               |
| 3   | Intermediate bin            | 8   | 10 Feet (3 m)              |
| 4   | 90 Degree Corner            | 9   | Building                   |
| 5   | Two Motor Tandem Power Unit |     |                            |

Locate the bins as illustrated in Figure 1. Commonly, the intermediate bin is placed 10 feet (3 m) from the building, allowing the auger to enter the building at about ceiling height (8' or 2.4 m). The terminal bin is installed at a 90 degree angle to the intermediate bin. Feed bins up to 9' (2.74 m) diameter are commonly placed 10' (3 m) on center from the intermediate bin. One 10' (3 m) PVC tube can be used to connect the boots in this application. NOTE: These are only guidelines. Many variations are possible. Installation of the Upper Boots, Transfer Plates, and Auger is the same for the Two Motor Tandem System as the standard system. The terminal bin must use a "straight-out" boot body. The intermediate bin requires a 30 degree boot body. Refer to the FLEX-AUGER Fill System Manual for installation information of standard components.

1. Install the power unit/gearhead assembly and tube anchor on the intermediate lower boot using the hardware provided with the power unit. Note: Tube anchor and power unit openings are identical, allowing either right or left turn installations. For right turns, switch placement as shipped is acceptable. For left turns, the power unit will not mount beside the switch. Left turn installations require moving the switch to the access plate location over the outlet end of the boot.
2. Remove the 7-1/2" bolt and nut from the boot as shipped. Re-install the bolt so that the nut is installed INSIDE the boot as shown in Figure 2, and the bolt is threaded into the face of the gear head on the power unit. Tighten the nut down against the side of the boot. This holds the cannonball in place in the boot.
3. Bolt the Lower Boot Weldment to the transfer plate of each bin using four 5/16-18x3/4" hex head machine screws.
4. Install PVC tube and auger from the terminal bin to the intermediate bin, as shown in Figure 3.
5. After auger installation is completed, place a cannonball in each boot assembly and install the clean-out cover in the terminal boot. Install the access cover on the intermediate bin.

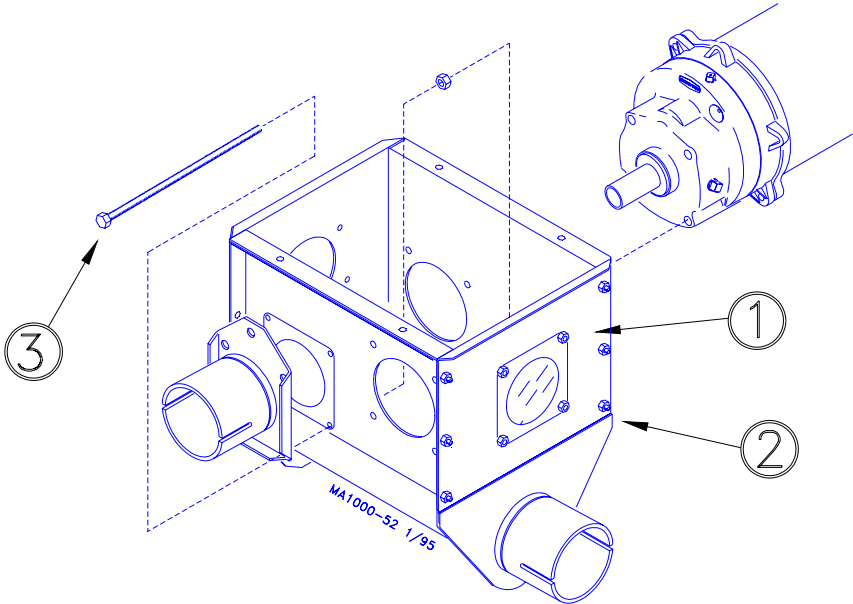


Figure 2.

| Key | Description                 |
|-----|-----------------------------|
| 1   | Access Cover                |
| 2   | Two Motor Tandem Body       |
| 3   | 7-1/2" (19 cm) Hex Hd. Bolt |

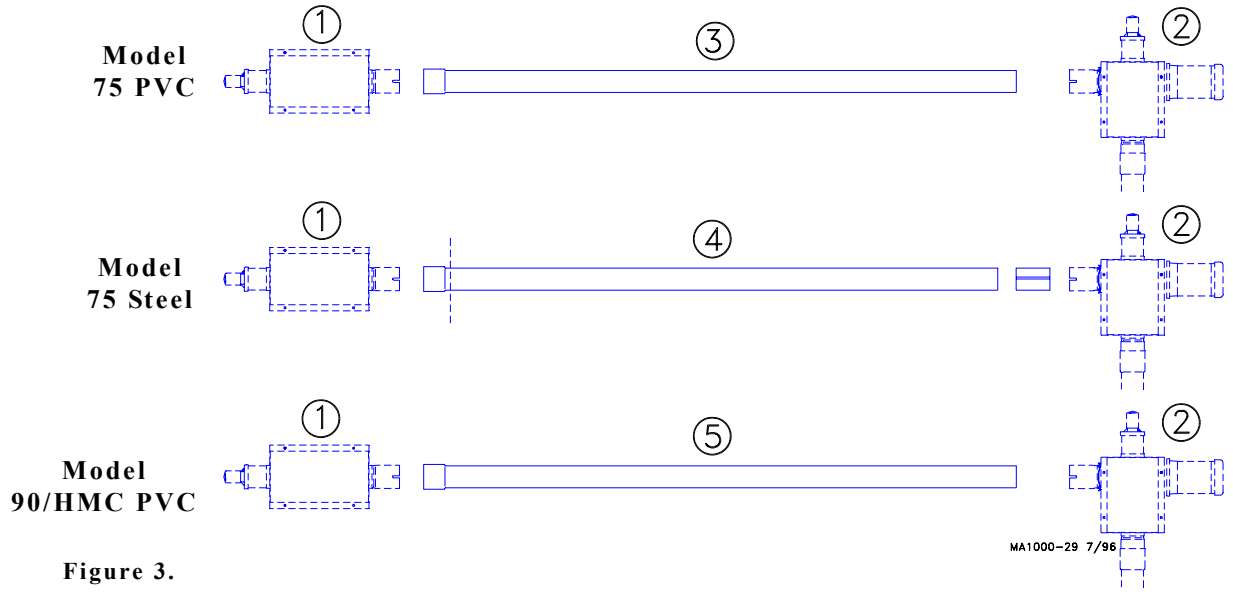
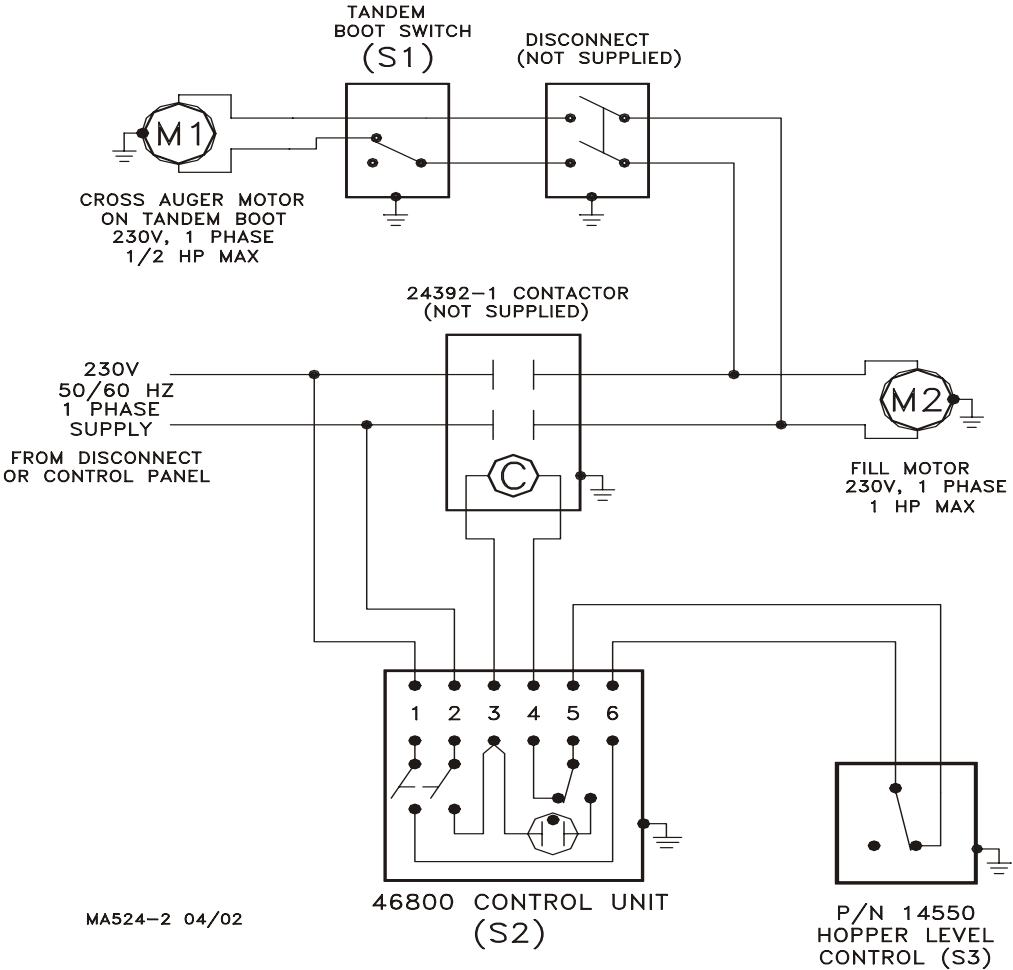
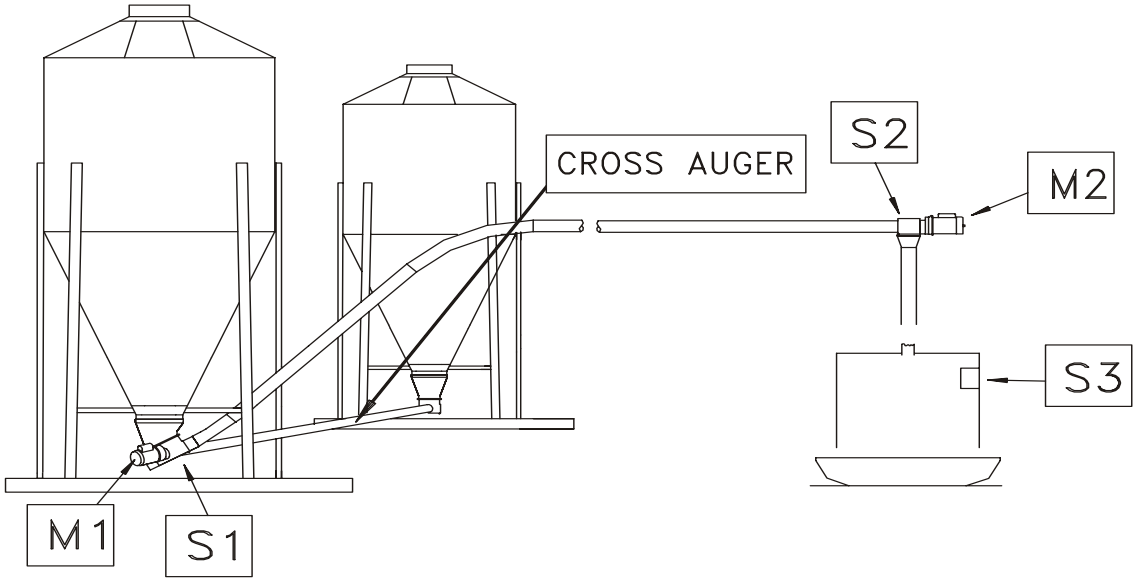


Figure 3.

| Key | Description  |
|-----|--|
| 1   | Terminal Boot  |
| 2   | Intermediate Boot  |
| 3   | Slide belled end of tube over Terminal Boot Bell; Straight end of tube inside Intermediate Boot Bell                                 |
| 4   | Cut bell off. Insert pipe into Terminal Boot Bell. Slide Tube Insert into the Intermediate Boot. Slide the tube into the Insert.     |
| 5   | Insert bell over Stub Tube Outlet on Terminal Boot. Slide the straight end of the tube into the belled end of the Intermediate Boot. |

# Two Motor Tandem System Wiring Diagram

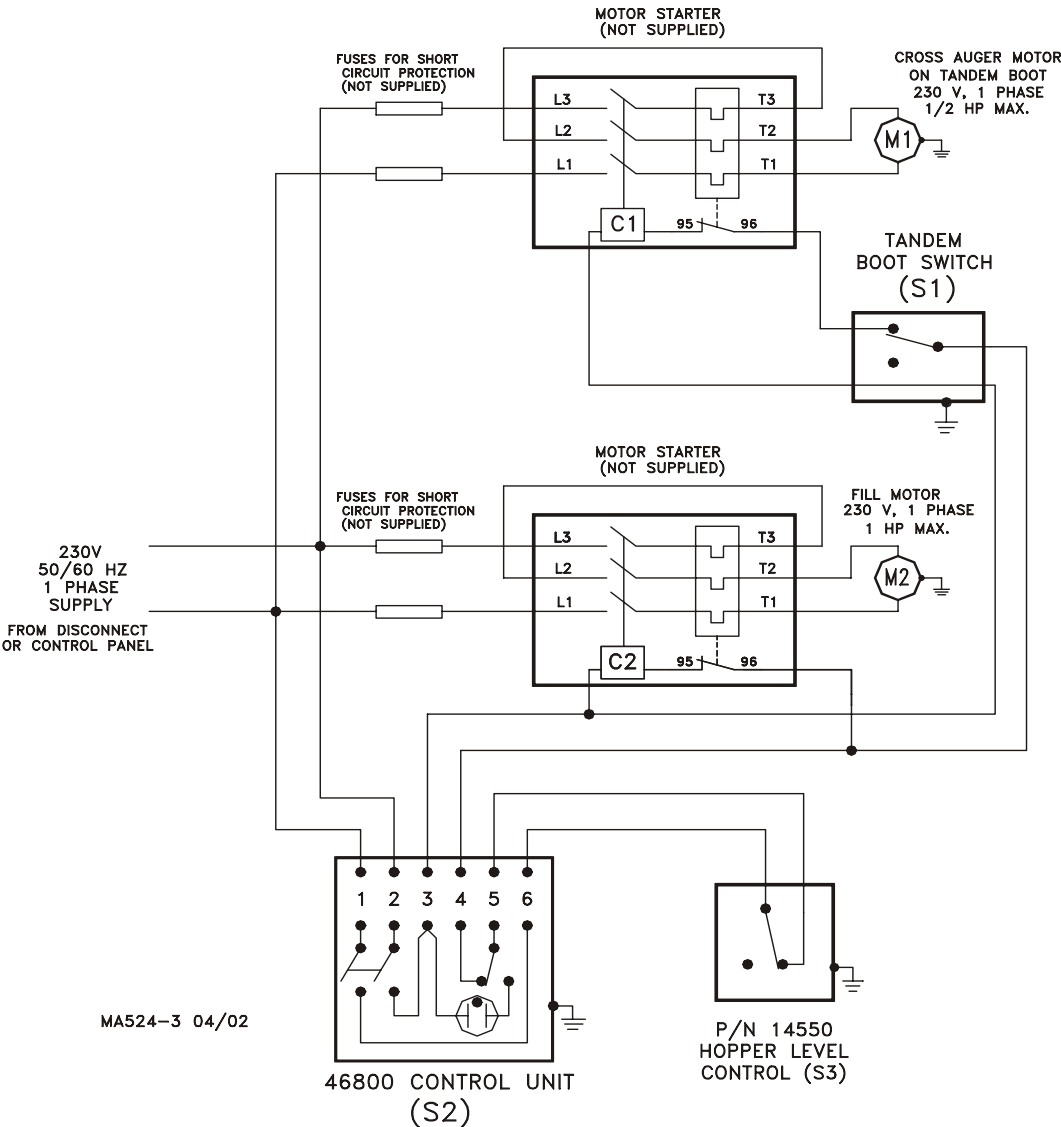
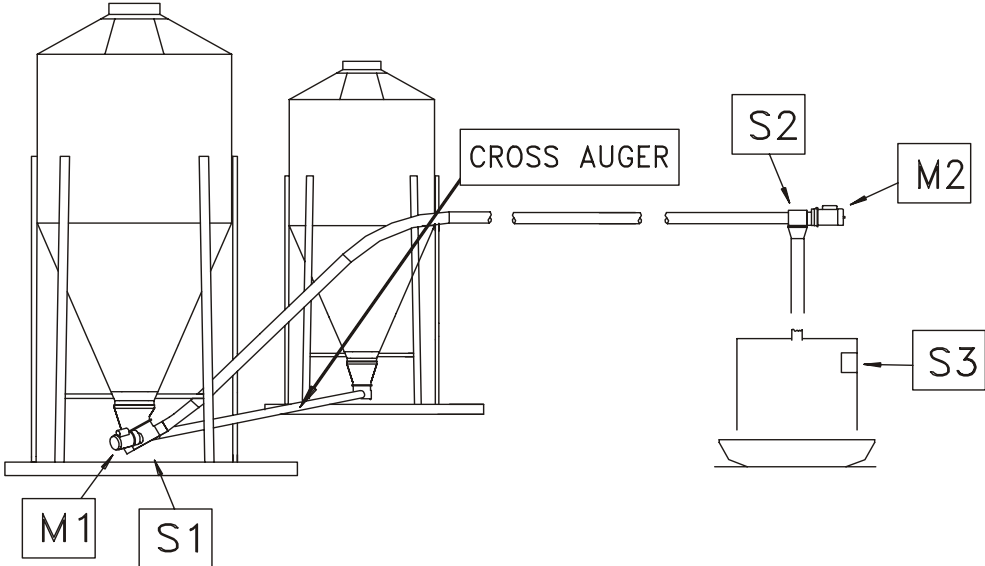
(Single Phase, 230 V, 50/60 Hz, w/o Motor Starters)



MA524-2 04/02

# Two Motor Tandem System Wiring Diagram

(Single Phase, 230 V, 50/60 Hz, w/ Motor Starters)

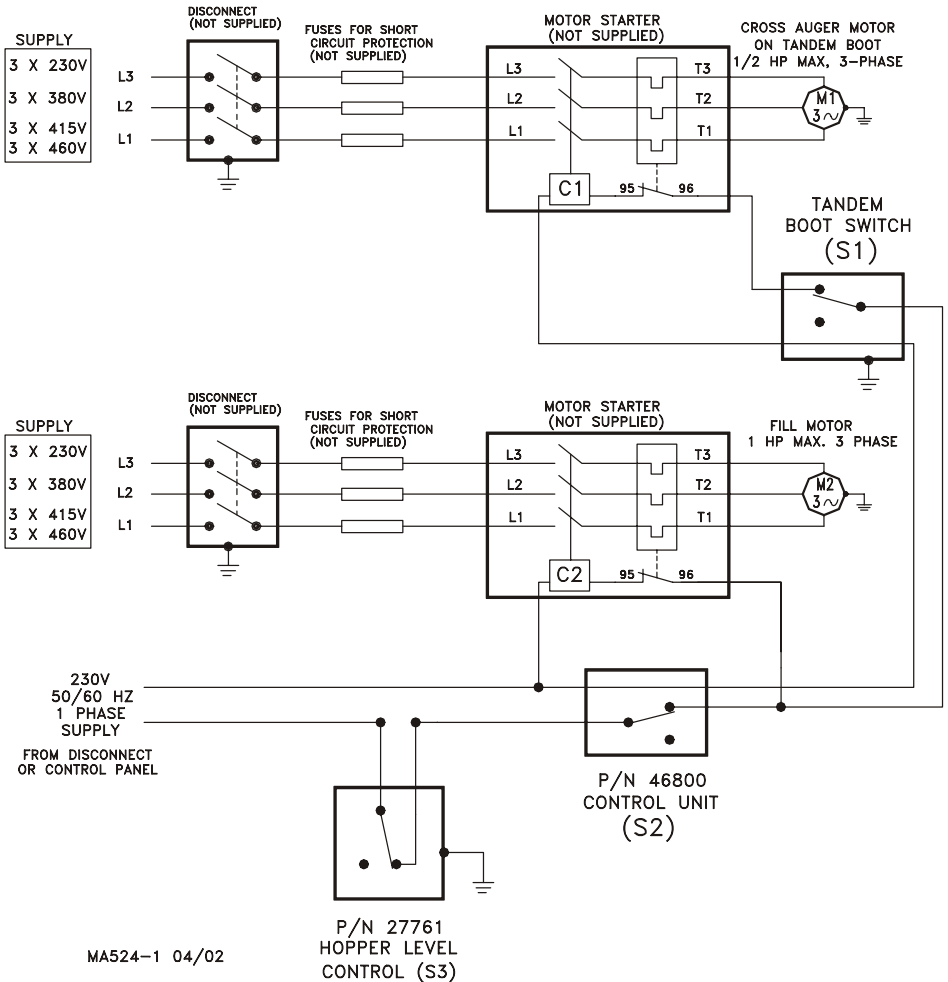
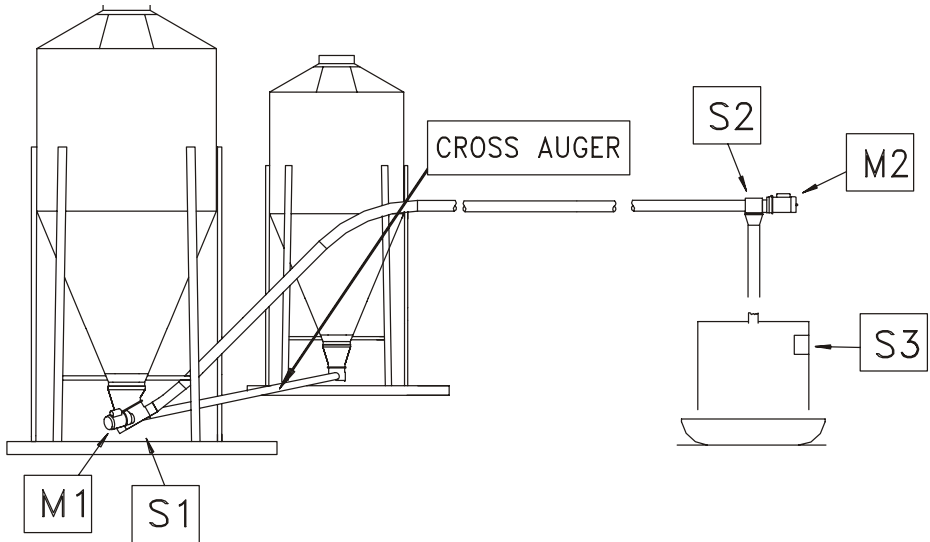


MA524-3 04/02



## Two Motor Tandem System Wiring Diagram

(Three Phase, 230/380/415/460 V, 50/60 Hz, Motor Starters)



MA524-1 04/02





***THANK-YOU for purchasing a Chore-Time  
Model 75/90/HMC 30 Deg. Two Motor Tandem  
System.***

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

Chore-Time Equipment, A Division of CTB, Inc.  
P.O. Box 2000, Milford, Indiana 46542-2000 U.S.A.  
Phone: 574-658-4101 • E-Mail: [ctb@ctbinc.com](mailto:ctb@ctbinc.com)

Printed in the U.S.A.