

## The Chore-Time Warranty

Chore-Time Equipment, a division of CTB, Inc., ("Chore-Time") warrants each new CHORE-TIME® product manufactured by it to be free from defects in material or workmanship for one year from and after the date of initial installation by or for the original purchaser. If such a defect is found by the Manufacturer to exist within the one-year period, the Manufacturer 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. Labor costs associated with the replacement or repair of the product are not covered by the Manufacturer.

### CONDITIONS AND LIMITATIONS

1. The product must be installed by and operated in accordance with the instructions published by the Manufacturer or Warranty will be void.

2.Warranty is void if all components of the system are not original equipment supplied by the Manufacturer.

3. This product must be purchased from and installed by an authorized distributor 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 the 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.

The Manufacturer shall not be liable for any consequential or special damage 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.

THIS WARRANTY CONSTITUTES THE MANUFACTURER'S ENTIRE AND SOLE WARRANTY AND THIS MANUFACTURER EXPRESSLEY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES AS TO MERCHANTIBILITY, FITNESS FOR PARTICULAR PURPOSES SOLD AND DESCRIPTION OR QUALITY OF THE PRODUCT FURNISHED HEREUNDER.

Chore-Time Distributors are not authorized to modify or extend the terms and conditions of this Warranty in any manner or to offer or grant any other warranties for Chore-Time products in addition to those terms expressly stated above.

An officer of CTB, Inc. must authorize any exceptions to this Warranty in writing. The Manufacturer reserves the right to change models and specifications at any time without notice or obligation to improve previous models.

Effective 01/2002

Chore-Time Equipment A Division of CTB, Inc. P.O. Box 2000 \* Milford, Indiana 46542-2000 \* U.S.A. Phone (574) 658-4101 \* Fax (574) 658-4171 Email: ctb@ctbinc.com \* Internet: http//www.ctbinc.com

# Support Information

The Breeder Control is designed to assist in inventorying and metering of poultry and livestock feed. 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, 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).

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.

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	

# Table of Contents

Торіс	Page	User*
The Chore-Time Warranty	2	C, D
Support Information	3	C, D, I
Safety Information	4	C, I
Introduction	5	C, D, I
Features & Functions	6	C, D, I
Time Clock Programming	7 - 8	C, I
Wiring Diagrams for ULTRAFLO Breeder Feeder Systems	9 - 12	I
Wiring Diagrams for ULTRAPAN Breeder Feeder Systems	13 - 18	I
Wiring Diagrams for Pan Breeder Feeder Systems	19 - 22	I
Miscellaneous Wiring Diagrams	23 - 28	I
Breeder Control Parts List (Part No. 34380)	29	C, D, I
4-Channel Breeder Control Parts List (Part No. 36550)	30	C, D, I
Trouble Shooting	31 - 34	C, D, I

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



# 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—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.







## Introduction

This instruction is designed to provide the necessary information for installation and operation of the 34380 Breeder Control and the 36550 4-Channel Breeder Control.

The Breeder Control is designed to meet the feeding needs of poultry parent stock.

Two versions of the Breeder Control are available. The 34380 Breeder Control is a single box unit, as shown below, that includes two output relays. The 36550 4-Channel Breeder Control is a dual box unit that includes four output relays. The additional two output relays, located in the second box, may be used for lights, waterers, etc.

Figure 1 shows the front of the 34380 Breeder Control. The individual switches, pilot lights, and the AGRI-TIME Timer are noted.





### Features & Functions

- The Agri-Time<sup>™</sup> Time Clock has (4) programmable channels.
- Each channel can have up to 8 events (feedings, waterings, etc.).
- Each event will have a start time and run time programmed into the timer. The start times are programmed in hours/minutes. The run times are programmed in hours/minutes or minutes/seconds.
- Any or all the channels can be set up as an Every Other Day channel.
- Two "AAA" batteries are used as a backup only for time of day if power is temporarily removed. The batteries should be replaced annually.

Battery replacement procedure: Cut the wire tie to remove batteries. Replace with new batteries (observe + and - poles of battery). Use a wire tie to secure the new batteries in the battery holder.

- Program settings will be stored in memory until a program change is made. **Power loss will not erase the programs.**
- The Start Time, Run Time, and Channel Select buttons have dual functions.



#### Key Description

- 1 P.M. Indicator
- 2 Hour/Minute Indicator
- 3 Used to set time of day, a.m./p.m., and skip mode. (24 hr. time)
- 4 Used to set start time and to erase individual operations.
- 5 Used to set length of run time. Also used to toggle between hours/minutes and
- minutes/seconds.
- 6 Used to set hours/minutes.
- 7 Used to set minutes/seconds
- 8 Used to advance to next event in channel.
- 9 Displays the event number being programmed.
- 10 Used to advance through the channels. Also used to set skip channel.
- 11 Indicates which channel(s) is active.
- 12 Indicates the day to be skipped (EOD "ON" skips today)
  - 13 Minutes/Seconds Indicator
  - 14 Display Window

## Time Clock Programming

Before beginning programming the time clock, fill in the desired starting times and running times. This will make programming the clock much easier.

IMPORTANT: Channel 1 must be used as the feed channel.

Channel 2 must be used as the fill system channel.

Channels 3 & 4 may be used to control other equipment, lights, etc. Additional relays (not supplied) are required to use Channels 3 & 4. See page 24 for wiring information.

Output Relays for channels 3 & 4 included with 36550 Breeder Control only.

A start time and a run time must be entered for each desired operation. If either are missing or incomplete, the operation will be ignored.

The display must be flashing in order to make any program changes.

When the display stops flashing, the new information will be added.

CHANNEL 1		CHANNEL 2		CHANNEL 3		CHANNEL 4	
START TIME	RUN TIME	START TIME	RUN TIME	START TIME	RUN TIME	START TIME	RUN TIME

### To Reset the Time Clock:

The time clock must be reset upon initial installation.

With power off to the system, press and hold the START TIME button while turning the power on. This will erase any entries that were programmed in the factory or field.

### To Set the Time of Day:

Press and hold the TIME OF DAY button until the display begins to flash.

Use the HR/MIN key on the time clock. Be sure to set the clock to the appropriate a.m. or p.m.

NOTE: Entries must be on both sides of the colon (i.e. 01:20).

### To Set a Start Time:

Press and hold the START TIME button until the display starts flashing.

Enter the start time for the first channel using the buttons in the SET TIME area of the time clock. The start times will be set in hours and minutes. Be sure to set the appropriate a.m. or p.m. settings.

NOTE: Entries must be on both sides of the colon (i.e. 06:00, see inset on page 8).

### To Enter a Run Time:

Use the buttons in the SET TIME area of the time clock. The run times may be set in minutes/seconds or hours/minutes (i.e. 01:20).

NOTE: To set the run times in minutes/seconds, press and hold the RUN TIME button until the indicator beside MIN/SEC is illuminated.

NOTE: Entries must be on both sides of the colon (i.e. 01:20, see inset at left).

### - IMPORTANT -

The Start Time and Run Time shown below make up **one** event of **one** channel.

Both the Start Time and Run Time are required for an event to be programmed.

CHANNEL 1		
RUN TIME	STAR1 TIME	
01:20		
	NEL 1 RUN TIME 01:20	

### To Set Every Other Day Mode:

NOTE: The control must be in the Time of Day mode in order to set Every Other Day Mode.

Press the HR/MIN button to advance the display until the indicator beside the EOD (skips today) TODAY is illuminated. **Make sure the appropriate a.m. or p.m. light is displayed.** This will set the proper sequence for the skip mode. It does not, however, set the EOD (skips today) Channel. The EOD (skips today) Channel will be set later in the programming.

NOTE: E.O.D. = Every Other Day. If the EOD (skips today) light is illuminated, that day will be the skip day (i.e. EOD light on = no feed that day). The EOD (skips today) light in the display does not assign the EOD (skips today) Channel.

### To Assign EOD (Skips Today) Mode to a Channel:

**To ASSIGN EOD (skips today):** Press and hold the CHANNEL SE-LECT button until the appropriate CHANNEL indicator starts to flash.

**To REMOVE EOD (skips today):** Press and hold the CHANNEL SE-LECT button until the indicator stops flashing.

NOTE: When the EOD (skips today) light is illuminated in the display, the channel that is blinking **will not** feed.

### To Move Through a Channel:

Press the ADVANCE button to move to the next event in a channel. The EVENT NUMBER display window changes as the ADVANCE button is pressed.

# Follow the steps above to set the remainder of the channels and events.

### To Erase a Single Event:

Press the CHANNEL SELECT button and the ADVANCE button to select the event you wish to remove.

Press and hold the START TIME button until the display shows bars. This will remove the selected event (start time and run time).

### To Erase All Start Times and Run Times:

Remove power to the Control Box.

Press and hold the START TIME button (for approximately 5 seconds) while turning power on to the Control Box. This should remove all entries from the program. However, the time of day will not be erased.

### To Review the Program:

Press and hold the START TIME button until the display begins to flash. Using the START TIME, RUN TIME, ADVANCE, and CHAN-NEL SELECT buttons you can view each of the programmed entries (events).

**ULTRAFLO** Component Location Diagram

Wire the system according to the applicable wiring diagram. Refer to this Component Layout Diagram to determine the motor, switch, etc. locations.









# **ULTRAPAN** Component Location Diagram

Wire the system according to the applicable wiring diagram. Refer to this Component Layout Diagram to determine the motor, switch, etc. locations.







AGRI-TIME<sup>™</sup> Breeder Control Instruction • Page 15

## 34380 Breeder Control Wiring Diagram

for ULTRAPAN Breeder Feeder Installations w/ Motor Starters

(220/380/415 V., 50/60 Hz., Three Phase)



Continue on page 17.

Continue from page 16.



Continue on page 18.

NF896-76 B/96



## Pan Breeder Feeder Component Location Diagram

Wire the system according to the applicable wiring diagram. Refer to this Component Layout Diagram to determine the motor, switch, etc. locations.



for Pan Breeder Feeder Installations w/o Motor Starters



## 34380 Breeder Control Wiring Diagram

### for Pan Breeder Feeder Installations w/ Motor Starters



## 34380 Breeder Control Wiring Diagram

for Pan Breeder Feeder Installations w/ Motor Starters (230/380/415 V., 50/60 Hz., Three Phase)



for installations using the Chore-Time Digital Weigh-Matic Scale



## 34380 Breeder Control Wiring Diagram

### for installations using alternate scale systems









36550 FOUR CHANNEL BREEDER CONTROL



The Detail Diagrams on this page are referenced on the master drawing on page 25.

DETAIL "A"



DETAIL

AGRI-TIME<sup>™</sup> Breeder Control Instruction • Page 26

"B"

MF1061-37 5/96





# Breeder Control (Part No. 34380) Internal Wiring Diagram

# 4-Channel Breeder Control (Part No. 36550) Internal Wiring Diagram

For clarity, this graphic shows only a portion of the internal wires. The other internal wires are shown on pages 27 and 28.



# 4-Channel Breeder Control Internal Wiring Diagram

For clarity, this graphic shows only a portion of the internal wires. The other internal wires are shown on pages 26 and 28.



AGRI-TIME<sup>™</sup> Breeder Control Instruction • Page 30

# 4-Channel Breeder Control Internal Wiring Diagram

For clarity, this graphic shows only a portion of the internal wires. The other internal wires are shown on pages 26 and 27.





Item	Description	Part No.	Item	Description	Part No
1	Control Box	30860-4	14	Terminal Strip	34925
2	Clear Cover	30859-1	15	OMRON RELAY 220 VAC	28904
3	Control Box Latch Pivot	30863	16	Transformer	34571
4	Control Box Latch	30862	17	Mount Bracket	34562
5	Fuse Holder	24431	18	Battery Box Assembly	35095
6	Control Box Mount Panel	34852	19	AAA Battery	34584
7	Back Mount Panel	34564	20	Terminal Block	7347
8	Front Panel	34565	21	Pilot Light	29708
9	Time Clock Connector	34457	22	Toggle Switch	34579
10	Terminal Strip	34925-8	23	Toggle Switch	34389
11	Terminal Mount Bracket	35094	24	Toggle Switch	34578
12	3 Amp Fuse (Slow Blow)	20472	25	MOV	14063-1
13	Terminal Mount Bracket	34563	26	Circuit Board	34384
			l		



# Trouble Shooting Guide

Problem or Symptom	Possible Cause and/or Correct Action
Control deadNo lights	Check fuses. See page 5. Check MOV. Check incoming power supply.
Clock looses time of day during poweroutage	Replace the two "AAA" batteries.
Time Clock does not operate correctly. No start and stop time. No "every-other-day" function.	Replace the Time Clock Circuit Board.
Weigh Bin starts when the push button in the Beam Box is pressed but does not continue to run when button is released. Note: Refer to the Weigh Bin Scale Manual for additional information.	See reference wiring diagrams on pages 32 through 33 (particularly Detail A). Check the Lower Switch in the Beam Box. Check adjustment of the Lower Switch to magnet. Check the resistors in the white box located in the Beam Box. Check the wiring from the Beam Box to the Breeder Control Check the Weigh Bin latching relay in the Breeder Control.
With the Beam up, the fill system starts but does not hold in when the switch is released. Both manual and Time Clock. Note: Refer to the Weigh Bin Scale Manual for additional information.	Check the Upper Limit Switch in the Beam Box. Check the adjustment of the switch and the magnet. Check the resistors in the white box located in the Beam Box. Check the wiring from the Beam Box to the Breeder Control. Check the Fill System latching relay in the Breeder Control.
Feeders will not run from the Time Clock.	Check location of the Manual/Time Clock Switch (switch must be in the Time Clock position). Check the operation of the Feeder Power Relay. Check the power on the Feeder Power Relay.
Fill Power Relay pulls in, but fill system does not operate.	See reference wiring diagrams on pages 32 through 33 (particularly Detail B). Check the power applied to the Fill System Power Relay. Check the output power from the Fill System Power Relay.
Weigh Bin Power Relay Pulls in, but Scale Fill System will not operate.	See reference wiring diagrams on pages 32 through 33 (particularly Detail B). Check the power applied to the Weigh Bin Fill System Power Relay.



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.