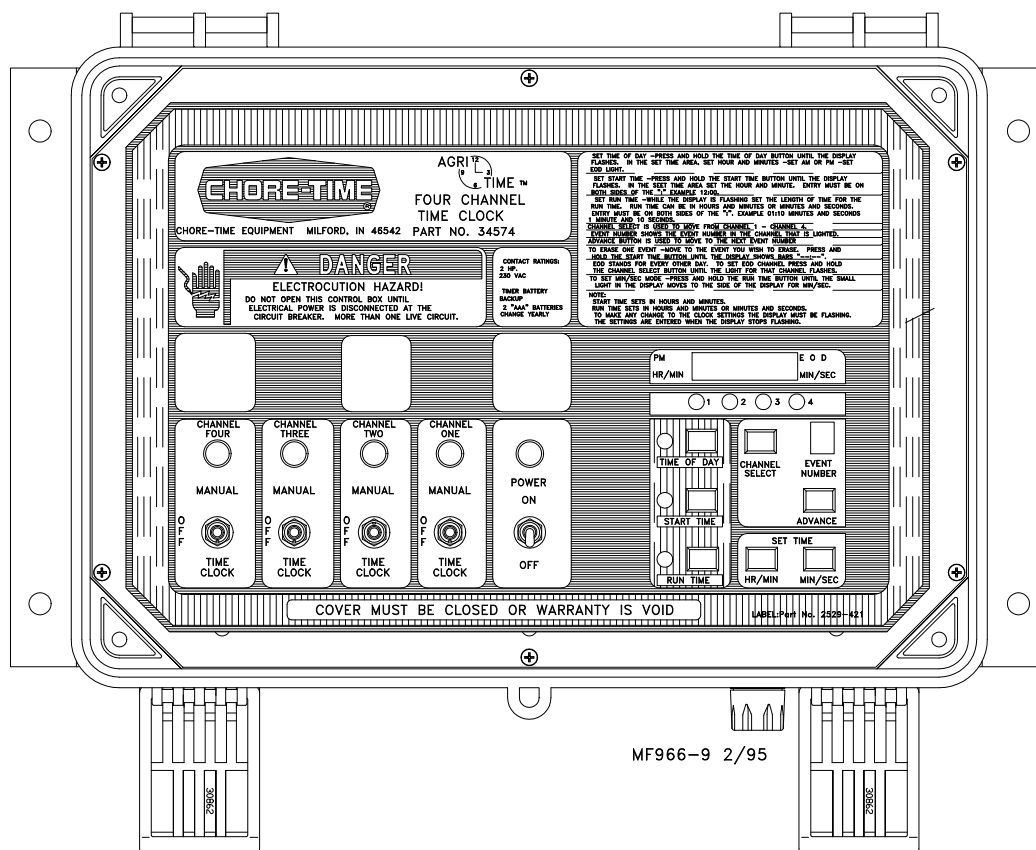


AGRI-TIME™ DIGITAL TIME CLOCK

used with the
34574 Control Panel



MF966-9 2/95

MF1115B12
May 1995

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. 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.

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 "WARRANTY ADDITION" as to these products

*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.

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

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

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



DANGER



WARNING



CAUTION

DANGER—ELECTRICAL HAZARD

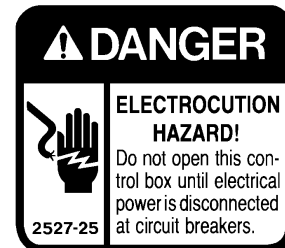
Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically state otherwise.

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.



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 comprehensive installation, wiring, operation, 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.

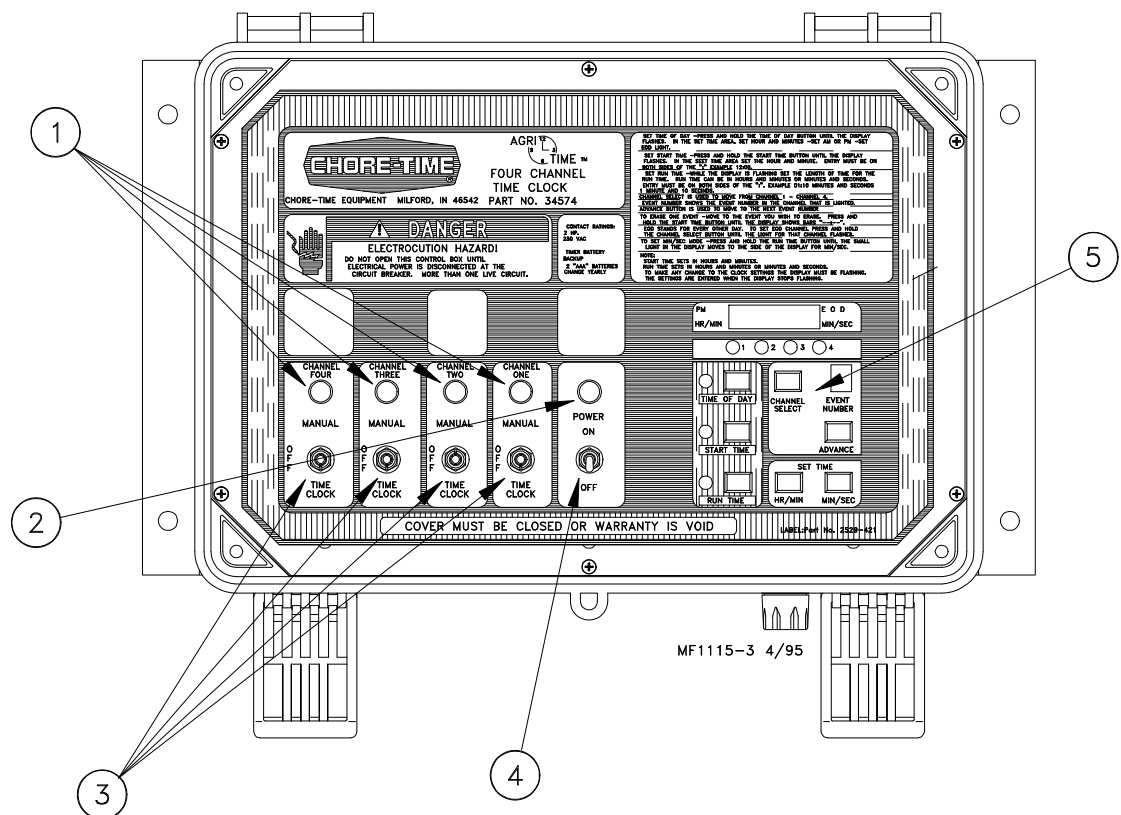


Time Clock Control: Part No. 34574

The 4-Channel Time Clock may be used in a variety of applications requiring a time clock to start and run equipment, lights, etc. at a predetermined time, for a predetermined amount of time.

Each channel has a 2 H.P. (max.), 230 V. power relay.

Figure 1 shows the front of the 4-Channel Time Clock Control. The individual switches, pilot lights, and the Time Clock Control are noted.



Key	Description
1	Pilot lights indicating active channels.
2	Pilot light indicating the power switch is "ON".
3	Switches used to set individual Channels to MANUAL, OFF, or TIME CLOCK mode.
4	4-Channel Control Power Switch
5	AGRI-TIME Timer

Features & Functions

- The Agri Timer 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.

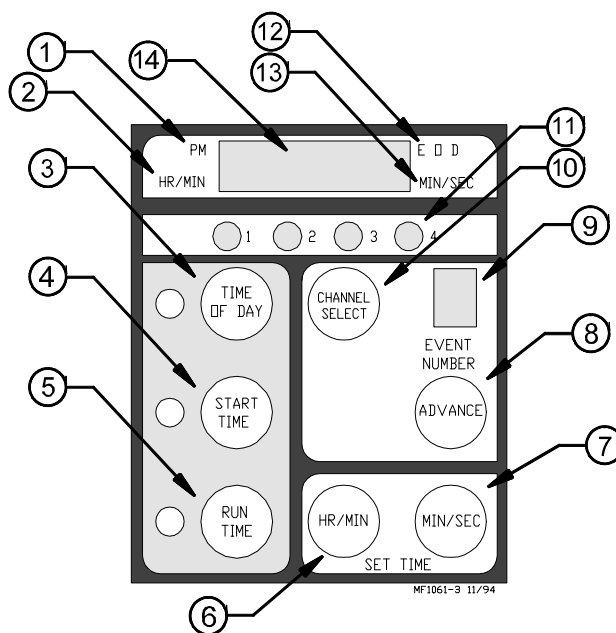


Figure 1.

Legend: Figure 1.

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

Programming the 4-Channel Time Clock

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

IMPORTANT: 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 Every Other Day Mode:

Press the HR/MIN button to advance the display until the indicator beside the EOD TODAY is illuminated. Press the appropriate a.m. or p.m. This will set the proper sequence for the every-other-day mode. It does not, however, set the every-other-day Channel. The every-other-day Channel will be set later in the programming.

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. 01:20).

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).

To Assign Every-Other-Day Mode to a Channel:

Press and hold the CHANNEL SELECT button until the appropriate CHANNEL indicator starts to flash. To remove every-other-day mode from a channel, press and hold the CHANNEL SELECT button until the indicator stops flashing.

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 appropriate 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.

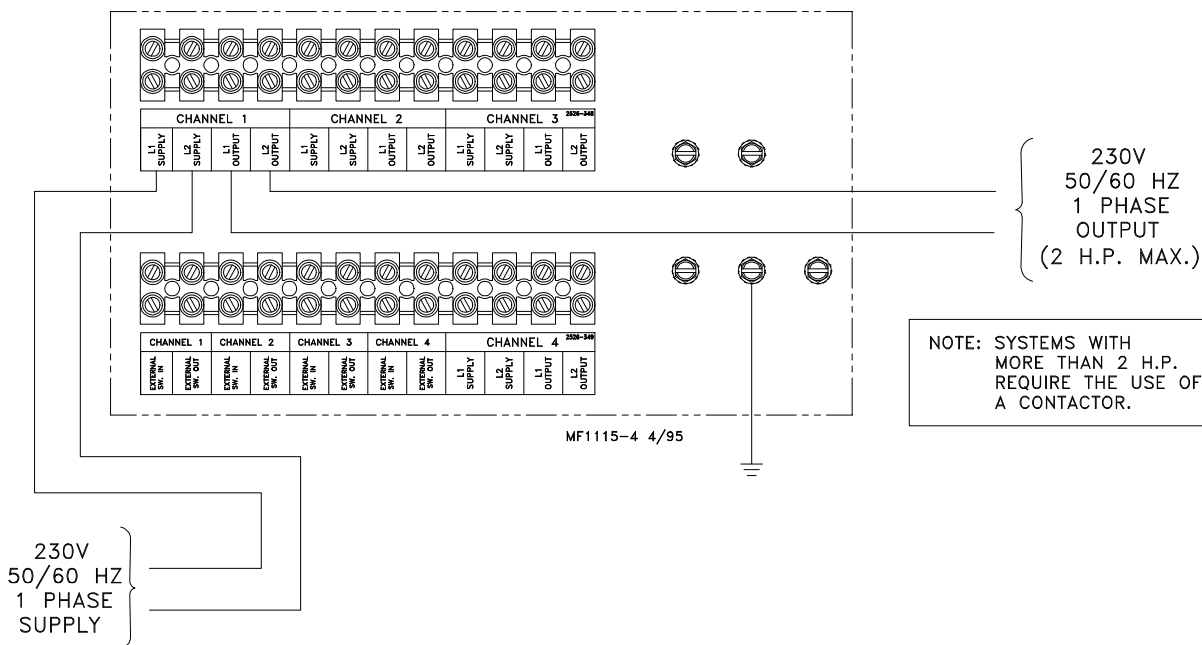
To Review the Program:

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

34574 4-Channel Time Clock Control Wiring

for Single Boot and Two-Motor Tandem Applications

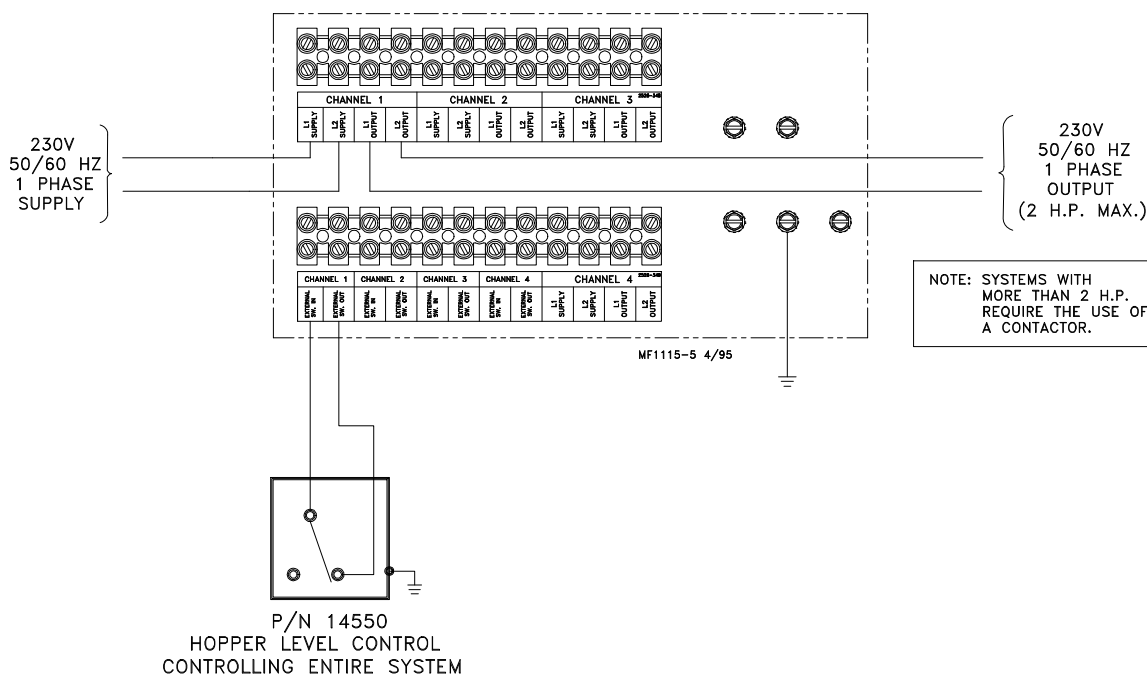
PART NO. 34574
FOUR CHANNEL TIME CLOCK



34574 4-Channel Time Clock Control Wiring

for Ext. Length Systems and Circulating Systems using a Hopper Level Control

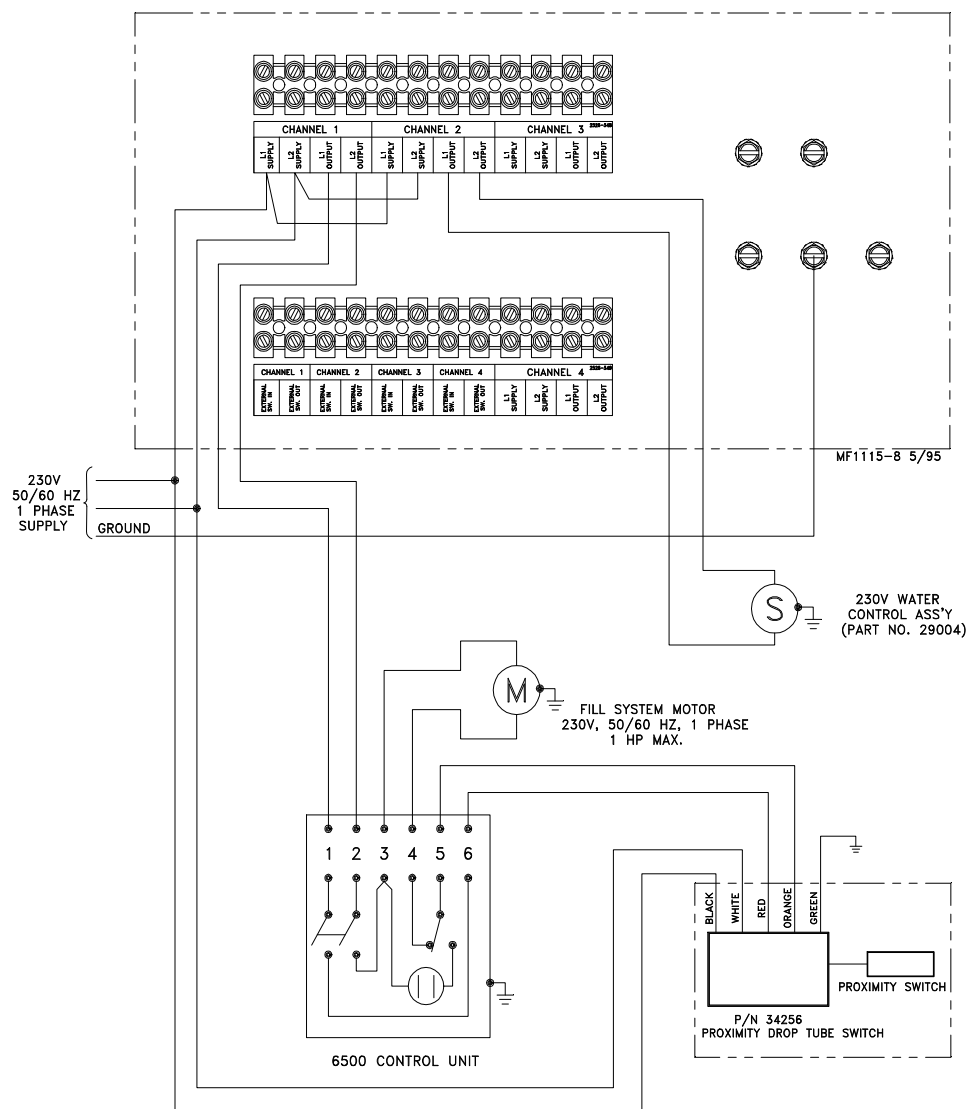
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FOUR CHANNEL TIME CLOCK



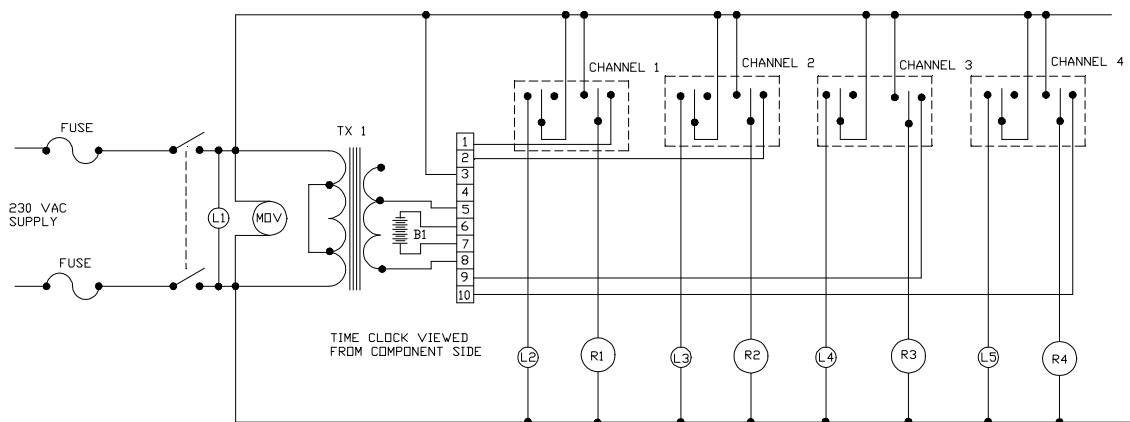
34574 4-Channel Time Clock Control Wiring

for Meal-Time Hog Feeding Applications

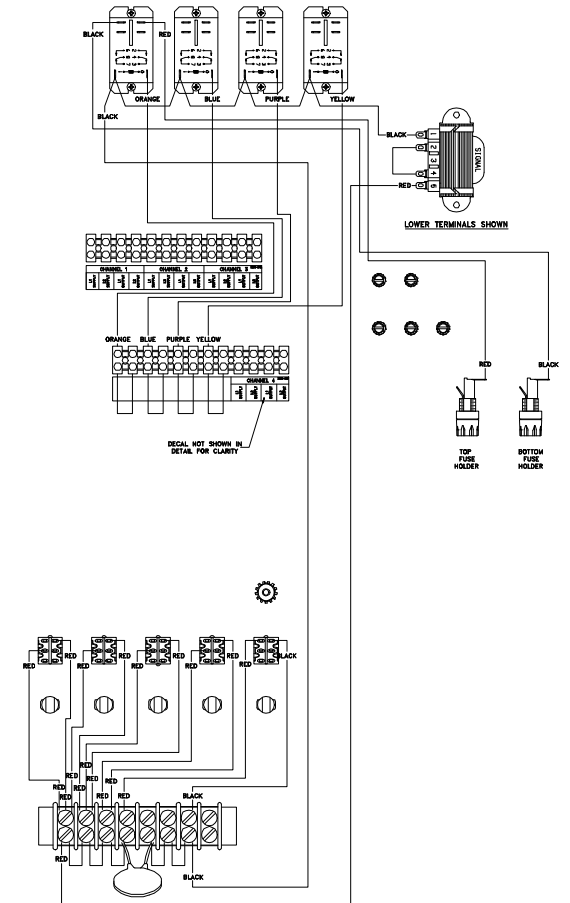
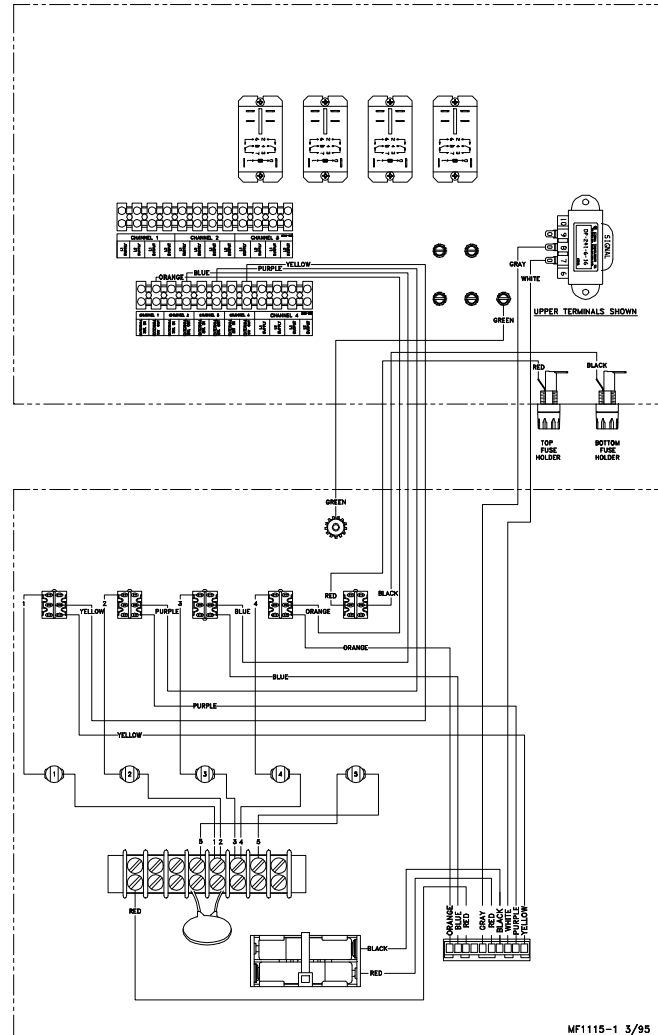
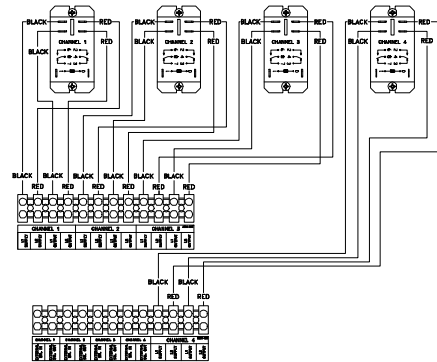
PART NO. 34574 FOUR CHANNEL TIME CLOCK
230V, 50/60 HZ, 1 PHASE



34574 Time Clock Control Logic Wiring Diagram

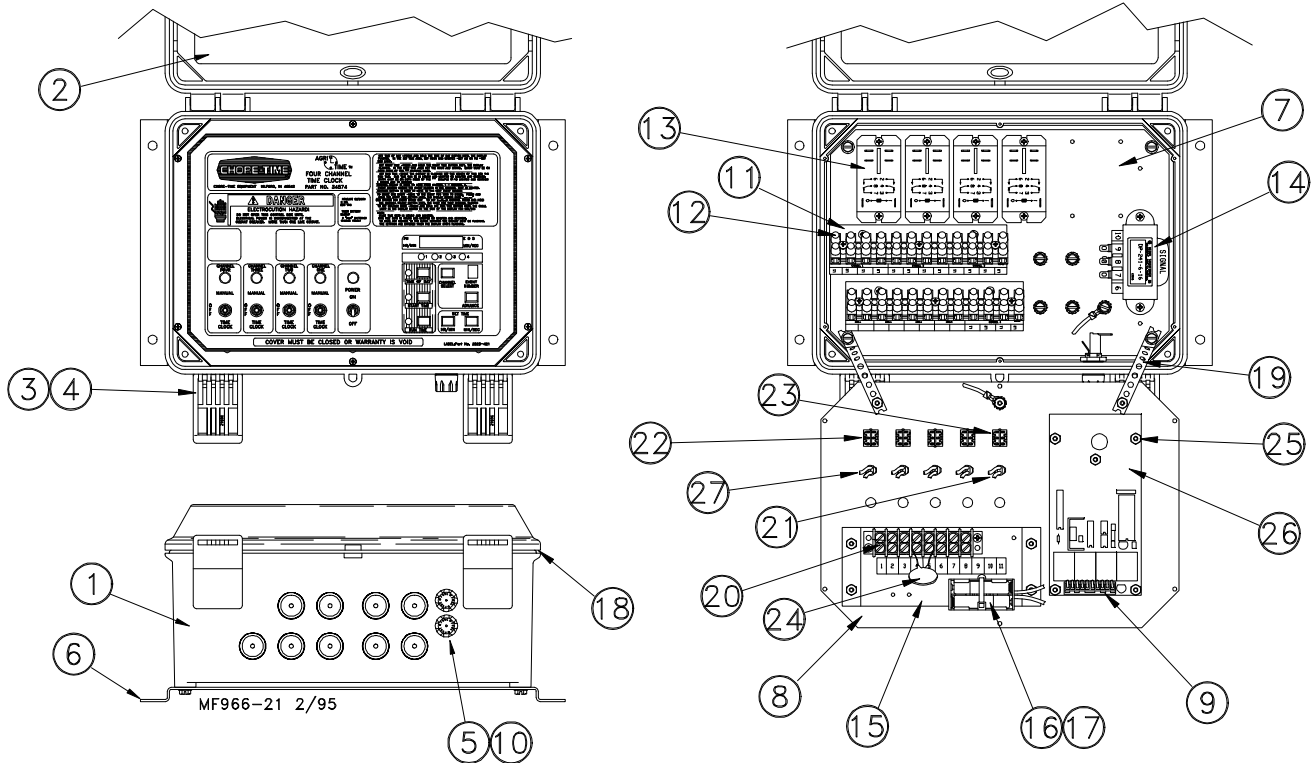


34574 Time Clock Control Internal Wiring Diagram



Time Clock Control Part List

Part No. 34574



Item	Description	Part No	Item	Description	Part No
1	Control Box	30860-4	14	Dual Transformer (115/230 V)	34571
2	Clear Lid	30859-1	15	Mount Bracket	34562
3	Control Box Latch Pivot	30863	16	Battery Box Assembly	35095
4	Control Box Latch	30862	17	"AAA" Battery (1.5V)	34584
5	Fuse Holder	24431	18	Seal	34767
6	Control Box Mount Panel	34852	19	Strapping	29014-4
7	Back Mount Panel	34564	20	Terminal Block	7270
8	Front Panel	34565	21	Pilot Light	29708
9	Time Clock Connector	35467	22	Toggle Switch	34388
10	3 Amp Fuse	20472	23	Toggle Switch	34578
11	Terminal Mount Bracket	34563	24	MOV	14063-1
12	Terminal Strip (12 position)	34925	25	Nylon Hex Nut 1/4-20	8916
13	P & B Relay (240 VAC)	34733	26	Circuit Board	34384
			27	Pilot Light Assembly	35461