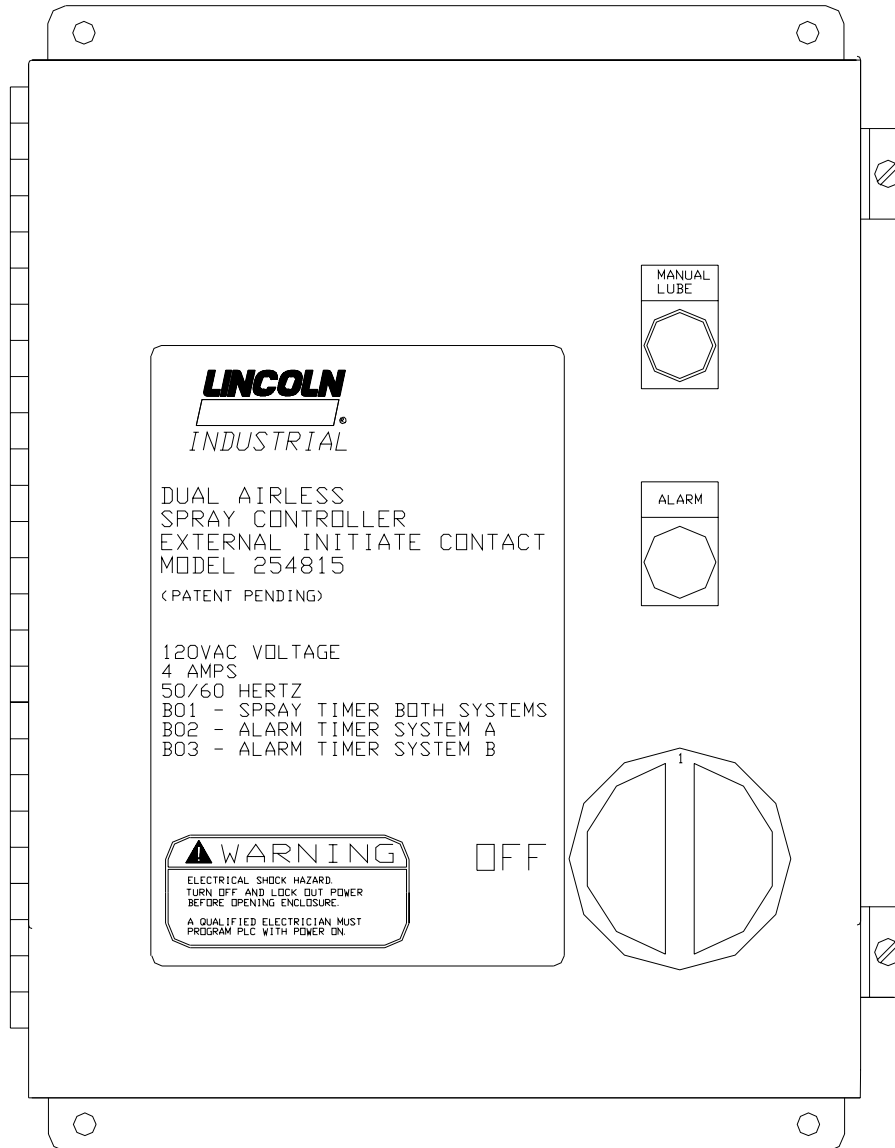


**Airless Spray Controller  
External Initiate Contact  
Model 254815  
Series "A"**



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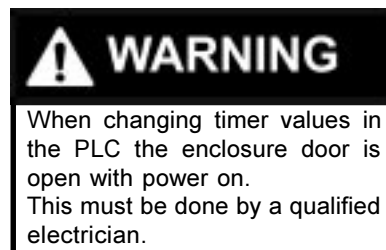
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## Table of Contents

	Page
Specifications.....	2
Description of Operation.....	2
Features.....	2
Alarm.....	2
Changing the Parameters of the PLC Timers.....	3
Service Parts.....	4
Field Wiring Diagram.....	5
Ladder Wiring Diagram.....	6



### Specifications

Input Voltage.....	120 VAC 50/60 HZ
Current Consumption.....	4 Amps at 120 VAC (Less alarm load)
Enclosure Rating.....	NEMA 12 Rating
Controller Ambient	
Temperature Range.....	32°F (0°C) to 131°F (55°C)
Net Weight.....	9 lbs (4 Kg)

### Description of Operation

1. The air to pump solenoid will turn on when one or both pressure switches are closed, indicating low pressure, and both spray solenoids are de-energized.
2. The pump will turn on and build pressure in both lube supply lines. When both pressure switches open, indicating high pressure, the pump will turn off, the green ready light will turn on.
3. When the external initiate contact that is connected to terminals 17 and 18 closes, both solenoids will energize spraying the gear.
4. The spray solenoid will turn off when the spray timer times out and either one of the pressure switches close, indicating low pressure.
5. When both spray solenoids turn off and one or both of the pressure switches close, the cycle repeats itself.

### Features

**Disconnect on door** - Removes power from controller and both lube systems "A" & "B".

**Manual Lube Push-button on door** - Depressing push-button will initiate a lube cycle (ready light must be on).

**Ready Light on door** - Indicates that both systems are fully charged and manual lube can be depressed.

**Alarm Light on Door** - If the alarm timer for system A or system B times out the alarm light on door will turn on. See section on alarms.

**Prespray cycle** - When power is turned on, the controller will wait two minutes and then initiate a spray cycle. The two minute wait will allow the heater to warm the lubricant. The pump must build pressure within two minutes to open the pressure switches before a prespray cycle can take place.

**Adjustable Alarm Timers** - Both alarm timers should be set long enough to allow a spray event to take place. A spray event consists of spraying the lubricant and then the closing of the pressure switch. The closing of the pressure switch will reset the alarm timer. The alarm timers are activated by the closing of the External Initiate contact, the manual lube pushbutton located of the enclosure door or the prespray cycle. If a spray cycle doesn't take place within this alarm setting, the system will go into alarm. A 120VAC alarm signal is available.

**Adjustable Spray Timer** - Amount of time that spray solenoids are energized. Adjustable from 1 second to 99 seconds.

**External Initiate Contact** - The closing of this switch will initiate a spray event. This is a dry contact (no voltage) wired to terminals 17 and 18. The closing of this switch will also start the alarm timers.

### Alarm

The controller has an alarm light on the enclosure door and choice of two 120vac alarm signals for external signaling. The closing of the system pressure switch will reset the system alarm timer preventing it from timing out. The alarm timers are set long enough to allow a spray event to take place. A spray event consists of spraying the lubricant and then the closing of the pressure switch. Both alarm timers are set to the same value.

The alarm light located on the enclosure will signal an alarm as follows:

System A.....	Alarm light will flash once, pause time and then will keep repeating this sequence.
System B .....	Alarm light will flash twice, pause time and then will keep repeating this sequence.

Both systems in fault .....Alarm light will stay on.

Two 120 VAC remote alarm signals are available. The alarm signal available at terminals 19 and 20 will signal the same as the light on the door. The 120vac alarm signal available at terminals 21 and 22 will remain on whenever there is a fault with system A, system B or both systems.

## Changing the Parameters for the “Spray” timer and the “Alarm” timers.

Changing the parameter for a timer only changes the time assigned to that timer. The time for the “Spray” timer is in seconds, the time for the “Alarm” timers is in minutes. When in the parameter mode, you cannot change or alter the program stored in the PLC. Changing the program can only be done in the programming mode.

Listed below are the three timers that can be viewed thru the window on the PLC. Using the keys on the PLC you can change timers B01, B02 and B03.

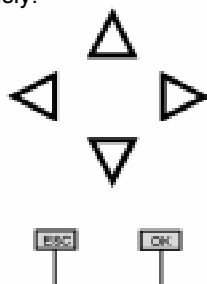
B01 - Spray timer for both systems

B02 - Alarm timer for system A.

B03 - Alarm timer for system B.

### Procedure for Changing Timer Parameters

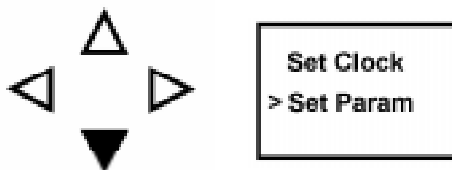
- To switch to the parameter mode, press the **ESC** and **OK** keys simultaneously:



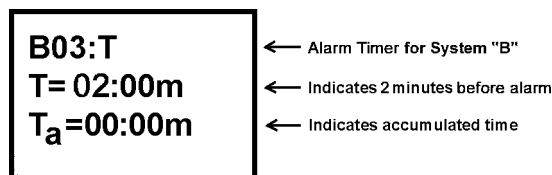
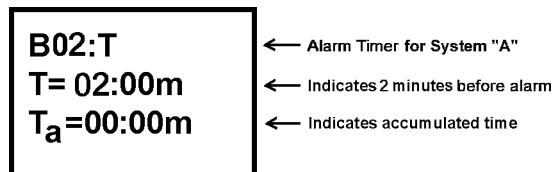
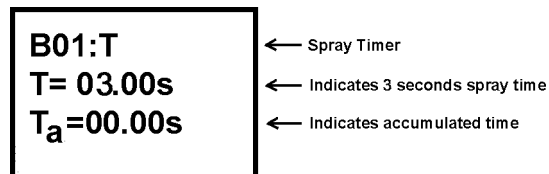
- The PLC screen will change to the display shown below:



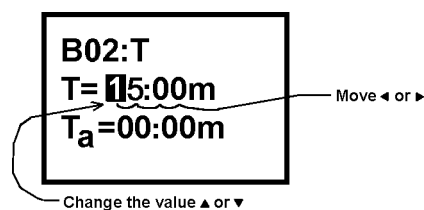
- Select the “Set Param” option:
  - press the down arrow key
  - press the **OK** key



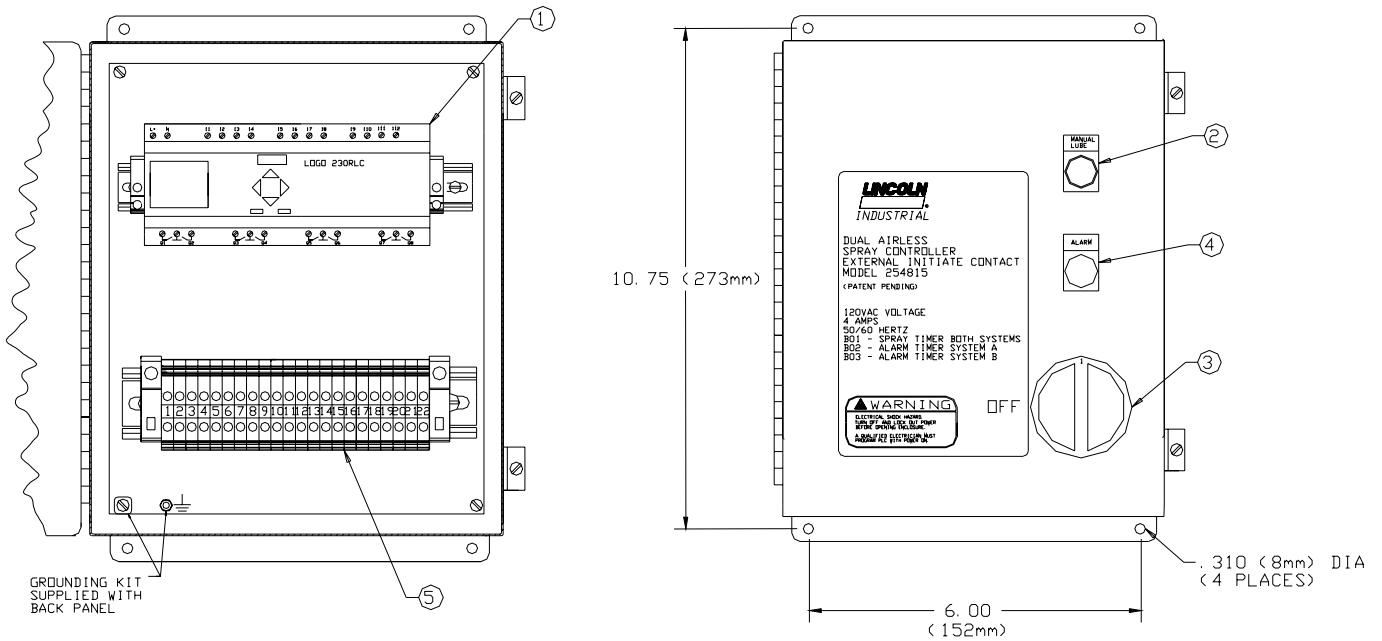
- The PLC will display the timer parameters
  - press the up arrow key to view the three timers: B01, B02 and B03.



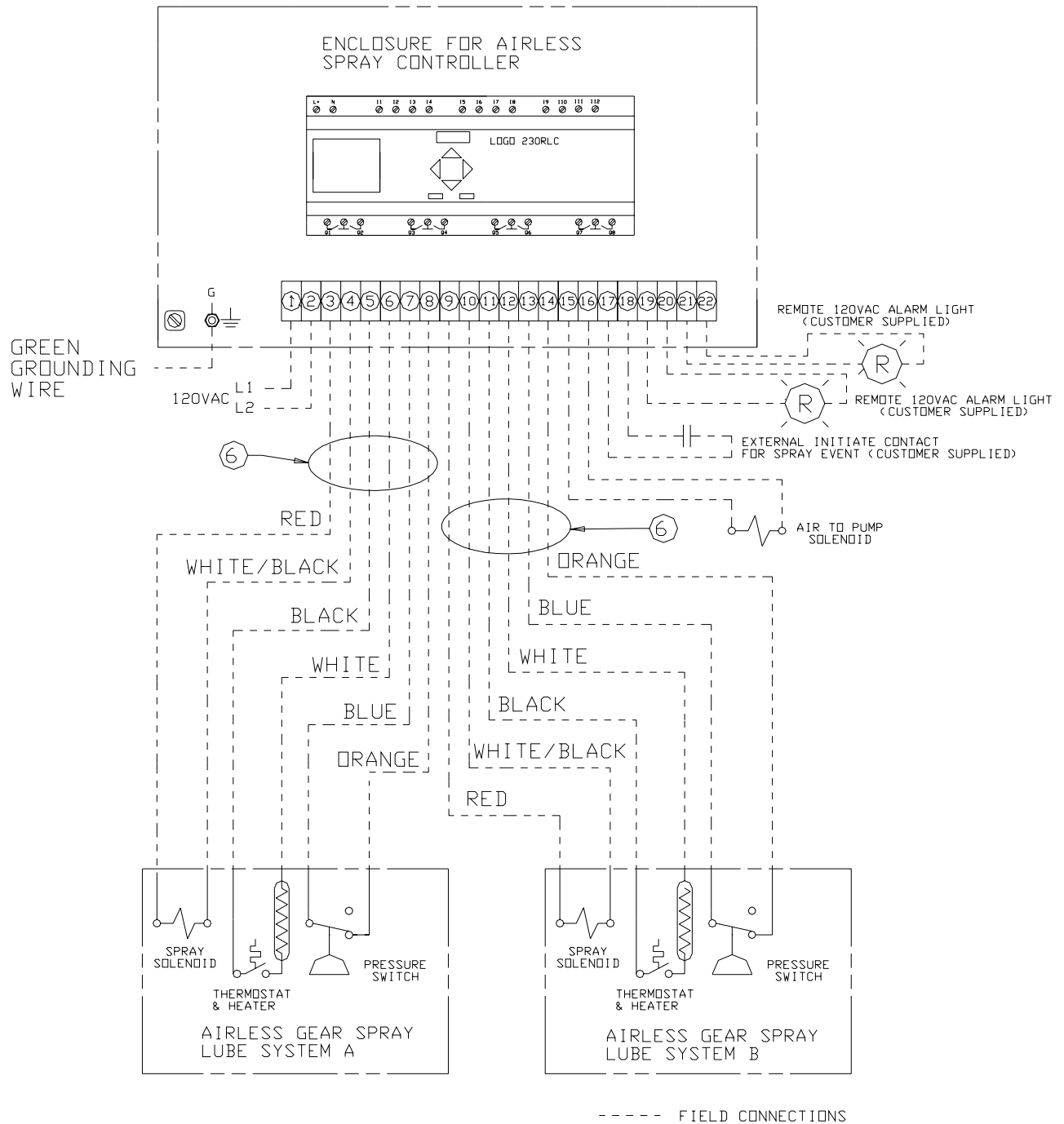
- To change a time parameter it must be displayed on the screen.
  - press the **OK** key.
  - using the **◀** or **▶** select the value to change.
  - using the **▲** or **▼** change the value.
  - when you have the desired value, press the **OK** key to accept the new value.
  - press the **ESC** key until the original screen appears.



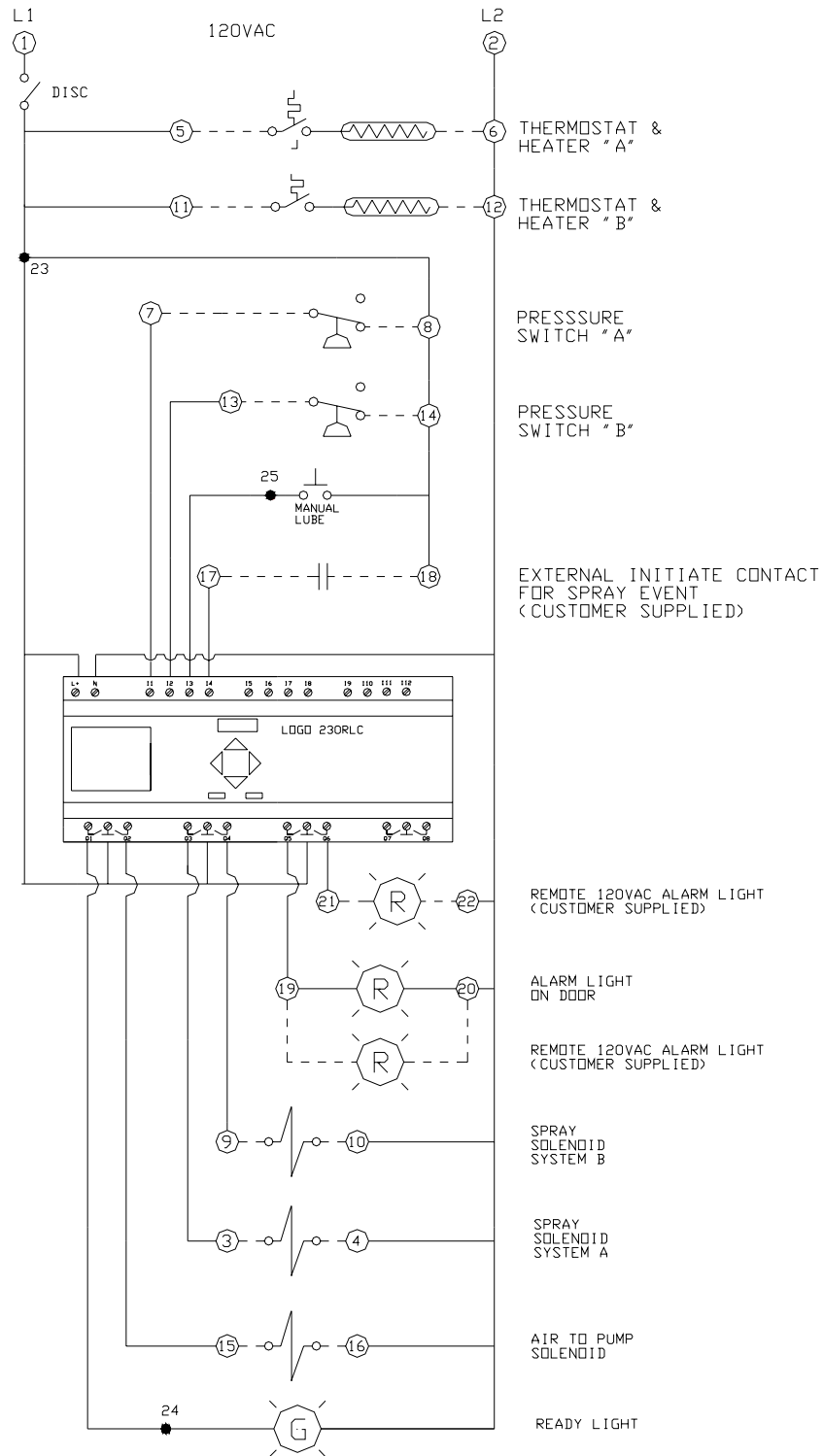
- Pressing the **ESC** key will return you to the original screen.



SERVICE PARTS			
ITEM	QTY	P/N	DESCRIPTION
1	1	256236	PLC W/PROGRAM
2	1	256232	GREEN "MANUAL LUBE & READY LIGHT" PUSHBUTTON
3	1	256233	DISCONNECT SWITCH
4	1	256234	RED "ALARM" PILOT LIGHT
5	1	256238	TERMINAL BLOCK
6	1	256241	12' CABLE ASSEMBLY



**Field Wiring Diagram**



**Ladder Diagram**