Logic Control Pushbuttons Open, Close, Stop
Open, Close and Stop buttons are mounted directly on the Logic Control board. This will provide easy programming ability and door control at the electrical box.

Programmable Maximum Run Timer:
Any time a "closing" or "opening" door takes 10 seconds longer than its programmed normal cycle time, the door will stop. The factory default for maximum run time is 90 seconds.

Setting Maximum Run Timer:
Start with the door in the fully closed position. Set DIP switches to "set max run timer" mode. Press the open button. Allow the door to run to the open limit. Once the door has stopped, set DIP switches to the desired operating mode (B2,C2, D1, E2, T, TS, FSTS). The maximum run time is now set to the door's travel time + 10 seconds.

Maintenance Alert System
Set dip switch to set cycle counter mode. When the operator is in this mode the LED will flash the number of times in 5k increments the operator has cycled followed by a five second delay. (Refer to figure 1 for LED location on the pushbutton).

Press This Button	To Get This Result
Open	Adds 5,000 cycles to Maintenance Alert System Activation Counter
Close	Clears memory, sets Maintenance Alert System Activation Counter to 0 cycles.
Stop	Adds 10,000 cycles to Maintenance Alert System Activation Timer

When the door has cycled the number of times you set, the Maintenance Alert System LED will flash once every second until the unit is serviced and the cycle counter is cleared.

Programmable Mid-stop:
The system will learn a programmable Mid-Stop point and will stop at that point whenever the door is opened from a fully closed position.

Setting Mid-Stop:
Start with the door in the fully closed position. Set DIP switches to "set mid-stop" mode. Press the open button. When the door reaches the desired Mid point, press the stop button. Set DIP switches to the desired operating mode (B2, C2, T, TS, FSTS). Press the open button and allow the door to run to the open limit.
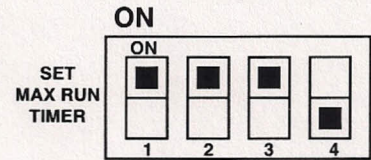
Clearing Mid-Stop:
Start with the door in the fully closed position. Set DIP switches to "set mid-stop" mode. Press the open button. Allow the door to run to the open limit. Set DIP switches to the desired operating mode (B2, C2, T, TS, FSTS).

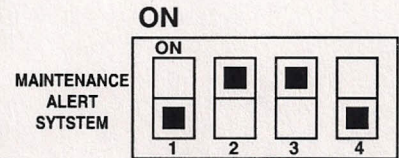### Set Timer to Close (CPSII Required)
Begin with the door in the closed position. Set dip switch to "Set Timer to Close".

Press This Button	To Get This Result
Open	Adds 5 seconds to countdown timer.
Close	Resets the timer to close to 0 seconds. Turns off electronic search for photo eyes after photo eyes have been intentionally removed.
Stop	Adds 5 seconds to "Red warning light before closing" time.
Single Button Control Station	Adds 60 seconds to countdown timer.

- The Maintenance Alert System LED will light when you press button.
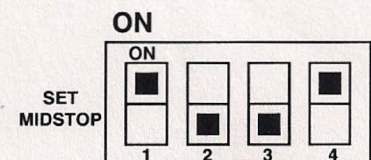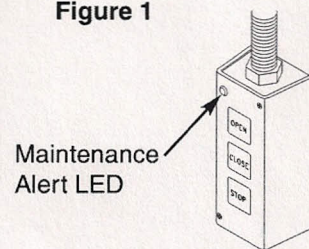- The Timer to Close only works in T, TS, and FSTS wiring modes with a CPSII.

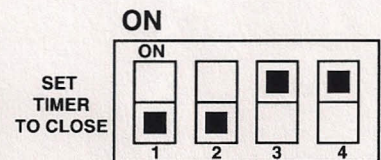**SET MAX RUN TIMER**
ON / OFF — switches: 1 ON, 2 ON, 3 ON, 4 OFF

MAINTENANCE ALERT SYTSTEM
ON / OFF — switches: 1 OFF, 2 ON, 3 ON, 4 ON

Figure 1
Maintenance Alert LED

SET MIDSTOP
ON / OFF — switches: 1 ON, 2 OFF, 3 OFF, 4 ON

SET TIMER TO CLOSE
ON / OFF — switches: 1 OFF, 2 OFF, 3 ON, 4 ON

WIRING TYPES

All modes contain: Wiring for sensing devices to reverse. Wiring for failsafe reversing devices. Connection for electrical detection of clutch slippage. External interlocks and auxiliary devices. Open button override while door is traveling down.

NOTE: Open, Close, and Stop buttons are located on the Logic Control board. This will provide programming ability and door control at the electrical box.

WIRING
TYPE   STATION

C2   3 Button, 3 Button Radio Control
Function: Momentary contact to open and stop with constant pressure to close, open override plus wiring for sensing device to reverse.

B2   3 Button, 1 Button, 1 & 3 Button Radio Control
Function: Momentary contact to open, close and stop, plus wiring for sensing device to reverse and auxiliary devices to open and close with open override.

D1   2 Button, 3 Button Radio Control
Function: Constant pressure to open and close with wiring for sensing device to stop.

E2   2 Button, 3 Button Radio Control
Function: Momentary contact to open with override and constant pressure to close. Release of close button will cause door to reverse (roll-back feature) plus wiring for sensing device to reverse.

T*   3 Button, 1 Button, 1 & 3 Button Radio Control
Function: Momentary contact to open, close, and stop, with open override and timer to close. Every device that causes door to open, except a reversing device, activates timer to close. Auxiliary controls can be connected to open input to activate the timer to close. If the timer has been activated, the open button and radio control can recycle the timer. The stop button will deactivate the timer until the close button is used to close the door. **(NOTE: Requires Optional failsafe photo eyes to operate.)**

TS*   3 Button, 1 Button, 1 & 3 Button Radio Control
Function: Momentary contact to open, close, and stop with open override and timer to close. Every device that causes door to open, including a reversing device, activates timer to close. Auxiliary controls can be connected to open input to activate the timer to close. If the timer has been activated, the open button and radio control can recycle the timer. The stop button will deactivate the timer until the close button is used to close the door. **(NOTE: Requires Optional failsafe photo eyes to operate.)**

FSTS   Momentary button contact for open, close and stop. Radio controls allowing open, close and stop. User set midstop. User set timer to close, functional at open limit. The single button station opens the door and activates the timer to close, putting the operator in TS mode until the door reaches the down limit, or is stopped in travel. At which time the operator enters the B2 mode. A failsafe is required to operate in this mode. **(NOTE: Requires Optional failsafe photo eyes to operate.)**

NOTE:
1. External interlocks may be used with all functional modes.
2. Auxiliary devices are any devices that have only one set of contacts. Examples are: photocell, loop detector, pneumatic or electrical treadles, residential radio controls, one button stations, pull cords, etc.
3. Open override means that the door may be reversed while closing by activating an opening device without the need to use the stop button first.
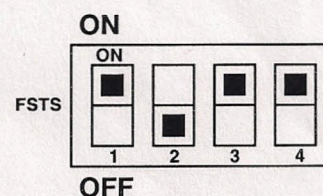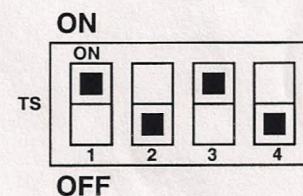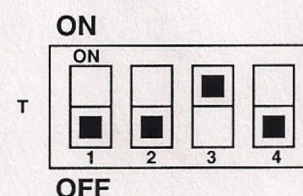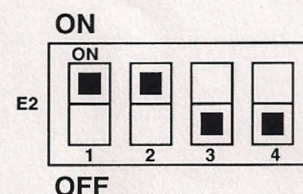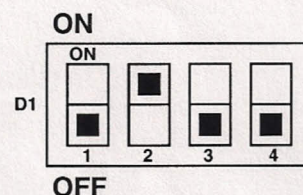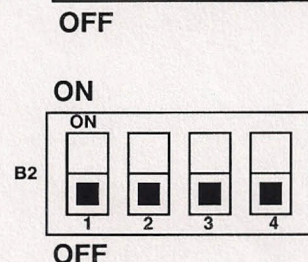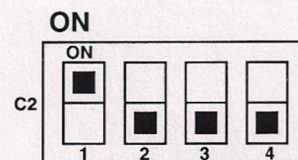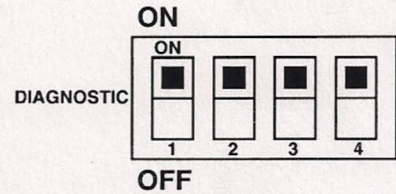
Diagnostic Mode
Set dip switch to diagnostic mode. The following diagnostic codes are applicable:

- Obstruction sensed = 2 flashes then pause
- Board Okay = Rapid Flash

Factory Memory Preset
Activate this mode to initialize the board's memory to the standard factory preset values. Set dip switch to diagnostic mode. Hold learn button down for 5 seconds. Diagnostic LED will go on then turn off when memory is clear. Sets values to the following:

Maximum run timer = 90 seconds
Timer to close = 0 seconds
Mid stop = Disabled
Maintenance Alert System = Disabled

RPM Learn

NOTE: The RPM Learn should never have to be reset except in the case where the Motor or Logic Control board has been replaced and only if the motor doesn't have a start switch.

Set unit to any normal mode, B2 is suggested. Begin with the door in the open or closed position. Set the limit switches so the operator can run for at least 5 seconds continuously at a steady speed.

Press the open or close button to start the operator. While the operator is running, press the learn button on the board. The diagnostic LED will come on. Hold down the learn button continuously while the operator is running. When the diagnostic LED goes out, the steady-state RPM speed of the operator has been "learned" by the microprocessor. If the unit hits a limit switch, or the motor stops, or you release the button before the LED goes out (about 5 seconds), the RPM learn procedure will have to be repeated. (Refer to figure 1 for RPM Learn button location)

FIGURE 1
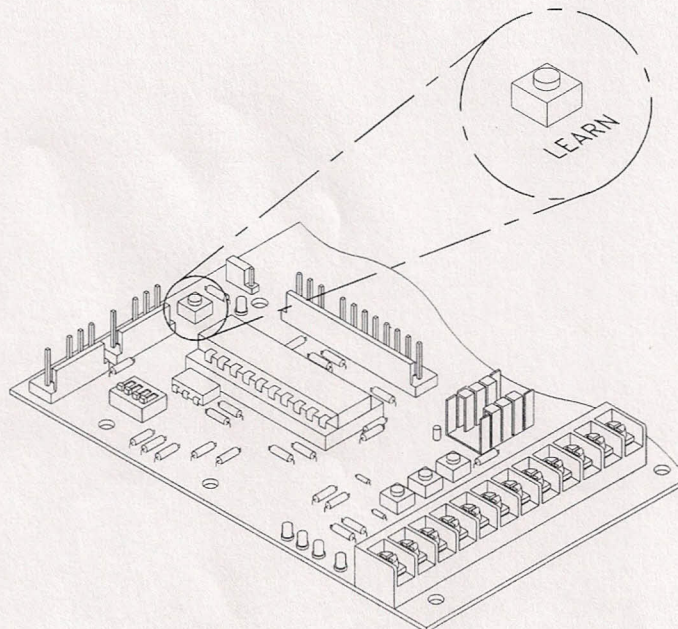
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