

## WARNING

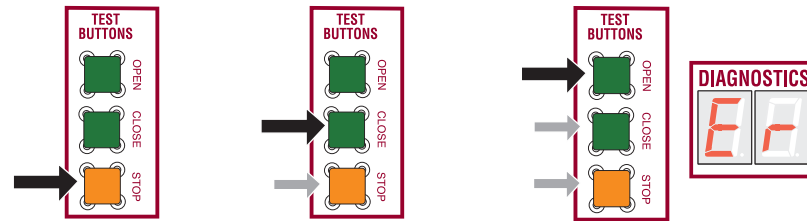
To reduce the risk of INJURY or DEATH:

- DISCONNECT power BEFORE installing or servicing operator.
- Replace ONLY with fuse of same type and rating.
- To be compliant with UL325 and industry safety guidelines, qualified monitored external entrapment protection devices such as photoelectric sensors or edge sensors are required to be installed with this operator at each entrapment zone. Use ONLY LiftMaster approved entrapment protection devices (refer to the accessory page of manual).
- See manual prior to servicing regarding maintenance and required safety testing.

## Diagnostic Codes

TO VIEW THE CODES:

- Press and hold STOP...
- ...then press and hold CLOSE...
- ...then press and hold OPEN until "Er" shows.



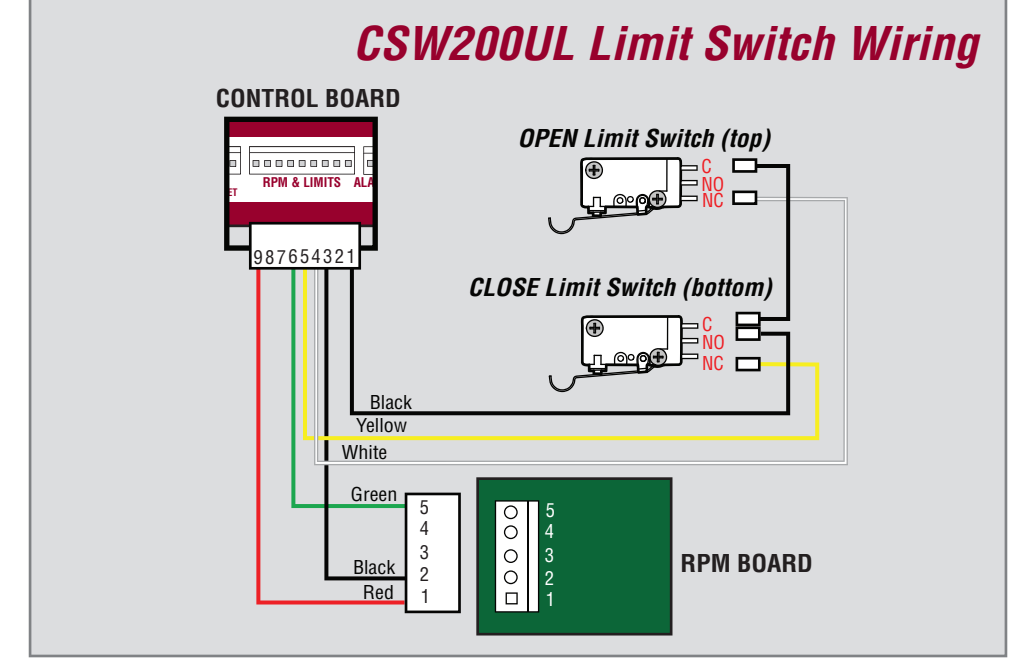
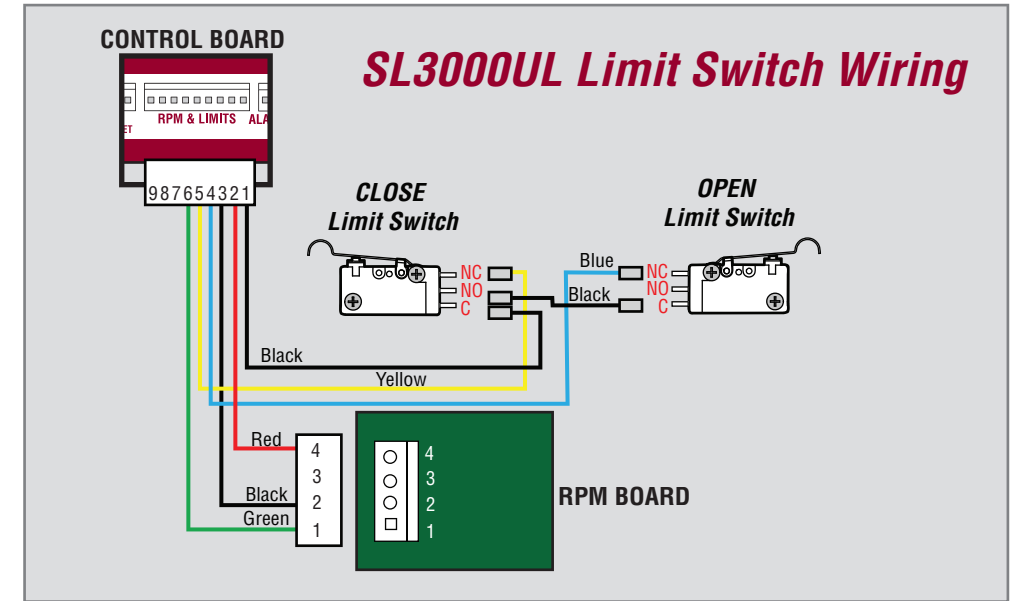
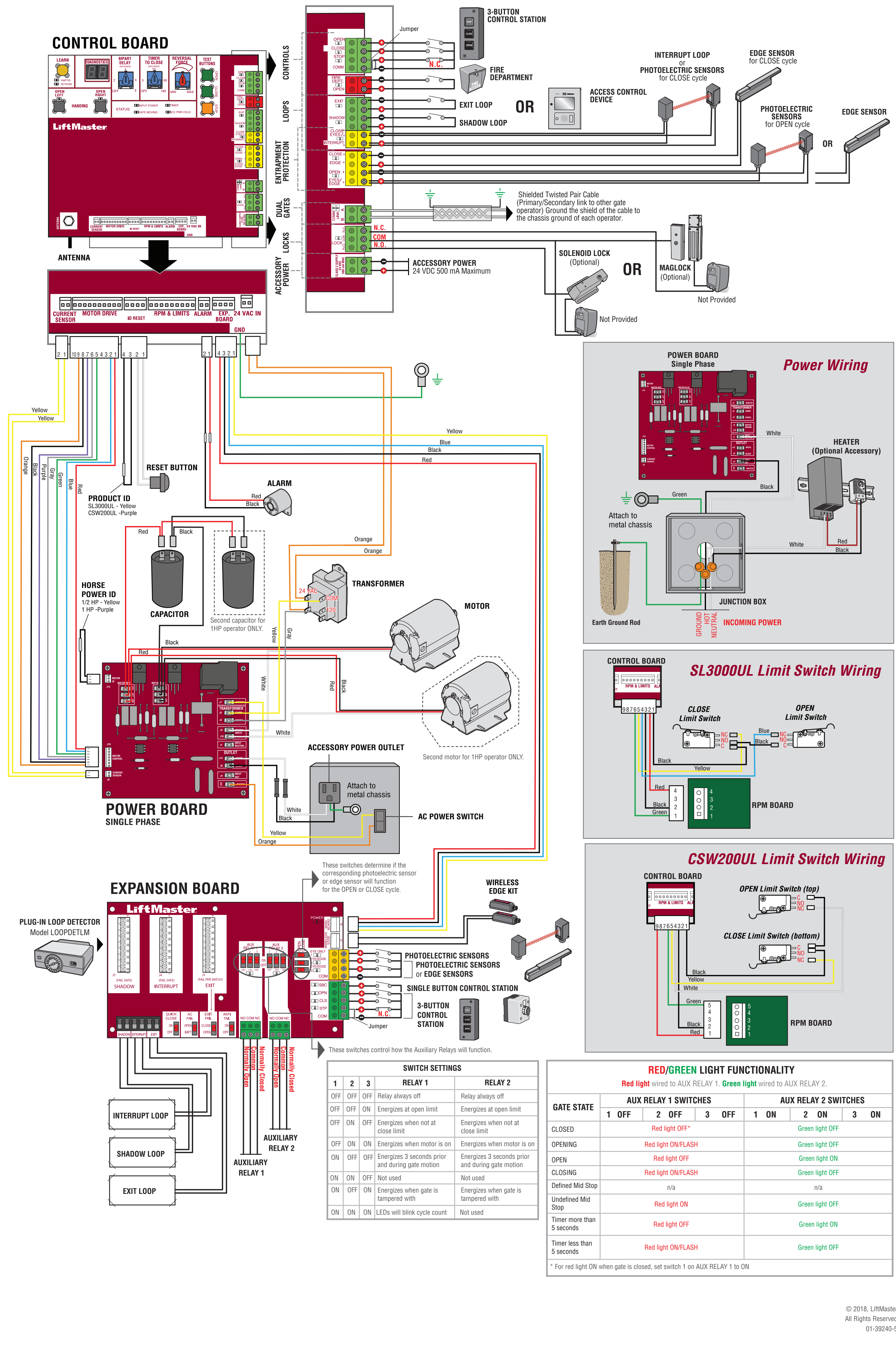
The operator will show the code sequence number followed by the code number:



The first number shown is the most recent code (example: "01"). The display will show the sequence of codes that occurred starting with "01" and going up to code "20".

- CODE COLOR KEY:**
- Yellow: LiftMaster System
  - Orange: Installed System
  - Green: Informational
  - Red: External Entrapment Protection
  - Black: Inherent Entrapment Protection

MEANING	SOLUTION
31	Main control board has experienced an internal failure. Disconnect all power, wait 15 seconds, then reconnect power (reboot). If issue continues, replace main control board.
35	Max-Run-Time Exceeded Error. Attempt to run and review for duration and obstructions. Max-Run-Time can be re-measured by saving one or both of the limits again.
36	Product ID Error. Was the control board just replaced? If so, erase limits, enter limit setup mode and set limits. If not, disconnect all power, wait 15 seconds, then reconnect power before changing product ID harness.
37	Product ID Failure. Unplug product ID harness then plug back in. Disconnect all power, wait 15 seconds, then reconnect power before replacing product ID harness.
43	Failure or missing EXIT loop. Check loop wiring throughout connection. May be a short in the loop, or an open connection in the loop (LiftMaster Plug-in Loop Detector only).
44	Failure or missing SHADOW loop. Check loop wiring throughout connection. May be a short in the loop, or an open connection in the loop (LiftMaster Plug-in Loop Detector only).
45	Failure or missing INTERRUPT loop. Check loop wiring throughout connection. May be a short in the loop, or an open connection in the loop (LiftMaster Plug-in Loop Detector only).
46	Wireless edge battery low. Replace batteries in wireless edge.
47	Power board fault. Relay fault detected in the power board. Replace the power board.
50	Run-Distance Error. Limits are less than 4 feet apart or longer than what was learned. Check limit positions and proper switch function. Run-distance can be re-learned by setting the handing again.
53	Brownout occurred. AC/DC board supply dipped below allowable level. Review power supply and wiring. If rebooting, ensure enough time for discharge of power to force a fresh boot.
54	Wireless Second Operator Communication Error. Check the second operator for power. If OFF, restore power and try to run the system. If powered, deactivate the wireless feature and then re-learn the second operator.
55	System AC Overvoltage. Call utility.
56	System AC Undervoltage. Check wiring and wire gauge to operator.
57	Limit Error - Stuck Switch. Check switch for proper operation. Check harness for shorts. Replace if defective.
58	Limit Error - Wrong Switch. Check motor wiring.
59	Missing Power Board. Check harness for shorts. Check for presence of power board.
60	Minimum number of monitored entrapment protection devices not installed. Review monitored entrapment protection device connections. Slide gate operators require a minimum of two external safety devices; one in the close and one in the open direction. Swing gate operators require one external safety device in either the open or close direction.
61	CLOSE EYE/INTERRUPT held more than 3 minutes. Check wired input on main board; check for alignment or obstruction.
62	CLOSE EDGE held more than 3 minutes. Check wired input on expansion board; check for alignment or obstruction.
63	OPEN EYE/EDGE held more than 3 minutes. Check wired input for wiring issue or obstruction.
64	CLOSE EYE/INTERRUPT held more than 3 minutes. Check wired input on expansion board; check for alignment or obstruction.
65	CLOSE EYE/EDGE held more than 3 minutes. Check wired input for wiring issue or obstruction.
66	OPEN EYE/EDGE held more than 3 minutes. Check wired input for wiring issue or obstruction.
67	Wireless edge triggered more than 3 minutes. Check wireless edge inputs.
68	Wireless edge loss of monitoring. Check wireless edge inputs.
69	Wireless edge triggered. If an obstruction occurred, no action required. If an obstruction did NOT occur, check inputs and wiring.
70	CLOSE EYE/INTERRUPT triggered, causing reversal, preventing close, or resetting TTC. If an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on main board.
71	CLOSE EDGE triggered, causing reversal, preventing close, or canceling TTC. If an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on main board.
72	OPEN EYE/EDGE triggered, causing reversal or preventing opening. If an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on expansion board.
73	CLOSE EYE/INTERRUPT triggered, causing reversal, preventing close, or resetting TTC. If an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on expansion board.
74	CLOSE EYE/EDGE triggered, causing reversal and preventing close or canceling TTC. If an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on expansion board.
75	OPEN EYE/EDGE triggered, causing reversal or preventing opening. If an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on expansion board.
80	Close input (EYE/EDGE) communication fault from other operator. Check inputs and communication method between operators, either wired bus or radio. Ensure operator is powered. May have to erase the wireless communication and reprogram the two operators.
81	Open input (EYE/EDGE) communication fault from other operator. Check inputs and communication method between operators, either wired bus or radio. Ensure operator is powered. May have to erase the wireless communication and reprogram the two operators.
82	Close input (EYE/EDGE) communication fault (expansion board). Check the connections between the main board and the expansion board.
83	Open input (EYE/EDGE) communication fault (expansion board). Check the connections between the main board and the expansion board.
84	Non-monitored device detected on the wireless safety system. Non-monitored contact closure devices are not supported. Make sure connected devices are monitored. Check edges for proper orientation and resistive end cap connection.
91	Force Reversal. Look for obstruction, if no obstruction, check that the mechanical assembly is engaged and free to move. Refer to manual for Limit and Force Adjustment, and Obstruction Test.
93	RPM / STALL Reversal. Check for obstruction. If no obstruction, check the operator cable wiring and that the operator arm is engaged and free to move. Replace RPM assembly.
95	AC motor no start condition. Motor failed to start. Check for an obstructed gate or binding mechanism. Check start capacitor connections and condition.
96	Current Sensor Fault. A fault was detected on the current sensor. Make sure the current sensor is connected to the main control board. Check the current sensor harness for an open or short. The operator will need a power cycle to resume operation after correcting the fault. If the fault continues, replace the power board.
99	Normal Operation. No action required.



### SWITCH SETTINGS

1	2	3	RELAY 1	RELAY 2
OFF	OFF	OFF	Relay always off	Relay always off
OFF	OFF	ON	Energizes at open limit	Energizes at open limit
OFF	ON	OFF	Energizes when not at close limit	Energizes when not at close limit
OFF	ON	ON	Energizes when motor is on	Energizes when motor is on
ON	OFF	OFF	Energizes 3 seconds prior and during gate motion	Energizes 3 seconds prior and during gate motion
ON	ON	OFF	Not used	Not used
ON	ON	ON	LEDs will blink cycle count	Not used

### RED/GREEN LIGHT FUNCTIONALITY

Red light wired to AUX RELAY 1. Green light wired to AUX RELAY 2.

GATE STATE	AUX RELAY 1 SWITCHES			AUX RELAY 2 SWITCHES		
	1 OFF	2 OFF	3 OFF	1 ON	2 ON	3 ON
CLOSED	Red light OFF*			Green light OFF		
OPENING	Red light ON/FLASH			Green light OFF		
OPEN	Red light OFF			Green light ON		
CLOSING	Red light ON/FLASH			Green light OFF		
Defined Mid Stop	n/a			n/a		
Undefined Mid Stop	Red light ON			Green light OFF		
Timer more than 5 seconds	Red light OFF			Green light ON		
Timer less than 5 seconds	Red light ON/FLASH			Green light OFF		

\* For red light ON when gate is closed, set switch 1 on AUX RELAY 1 to ON

