

## WARNING

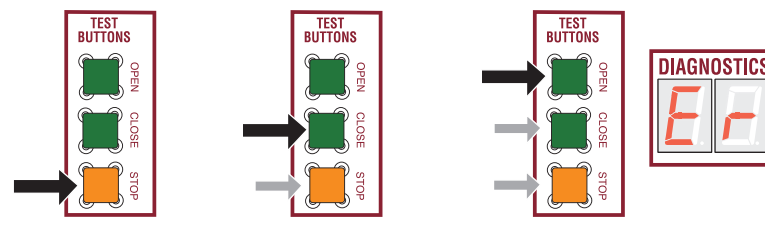
To reduce the risk of INJURY or DEATH:

- Turn both the AC Power and Battery switches to OFF position 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.

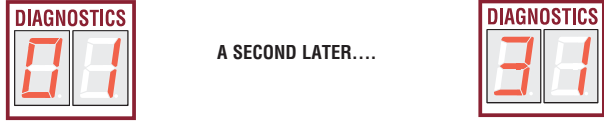
## Diagnostic Codes

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.



**CODE SEQUENCE 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 NUMBER**  
The second number shown after the code sequence number is the code itself (31-99, example "31").

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

CODE	MEANING	SOLUTION	SAVED
31	Control board has experienced an internal failure.	Disconnect all power, wait 15 seconds, then reconnect power (reboot). If issue continues, replace main control board.	NO
34	Absolute Position Encoder error, not getting position information from encoder	Check APE assembly and wiring connections. Replace the APE assembly if necessary.	YES
35	Max-run-time exceeded error	Check for an obstruction, then reprogram the limits.	YES
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.	YES
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.	YES
38	Hard stop limit (Arm 1)	Limit may be set too tightly against a non-resilient hard stop (re-adjust limit). Operator may be at end of travel (re-adjust mounting).	NO
40	Battery overvoltage	Too much voltage on the battery. Check harness. Make sure there is NOT a 24V battery on a 12V system.	YES
41	Battery overcurrent	Possible short of the battery charge harness. Check harness. Make sure you do NOT have a 12V battery on a 24V system.	YES
42	No battery at boot up	Check battery connections and installation. Replace batteries if depleted to less than 20V on a 24V system or less than 10V on a 12V system. Make sure there is NOT a single 12V battery on a 24V system.	YES
43	Exit loop error	Failure or missing loop (SHORT or OPEN - LiftMaster Plug-in Loop Detector only).	YES
44	Shadow loop error	Check loop wiring throughout connection. May be a short in the loop, or an open connection in the loop.	YES
45	Interrupt loop error	Check loop wiring throughout connection. May be a short in the loop, or an open connection in the loop.	YES
46	Wireless edge battery low	Replace batteries in wireless edge.	YES
47	Motor Drive Fault	Check motor drive connections. Disconnect all power, wait 15 seconds, then reconnect power (reboot). If issue persists, replace motor.	YES
48	Hall Sensor Fault	Check motor and motor drive connections. Disconnect all power, wait 15 seconds, then reconnect power (reboot). If issue persists, replace motor.	YES
50*	Gate overspeed detected	Make sure the gate is installed on a level surface and not on an excessive grade.	YES
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.	YES
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.	YES
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.	NO
61	CLOSE EYE/INTERRUPT held more than 3 minutes	Check wired input on main control board; check for alignment or obstruction.	YES
62	CLOSE EDGE held more than 3 minutes	Check wired input on main control board; check for alignment or obstruction.	YES
63	OPEN EYE/EDGE held more than 3 minutes	Check wired input on main control board; check for alignment or obstruction.	YES
64	CLOSE EYE/INTERRUPT held more than 3 minutes	Check wired input on expansion board; check for alignment or obstruction.	YES
65	CLOSE EYE/EDGE held more than 3 minutes	Check wired input on expansion board; check for alignment or obstruction.	YES
66	OPEN EYE/EDGE held more than 3 minutes	Check wired input on expansion board; check for alignment or obstruction.	YES
67	Wireless edge triggered more than 3 minutes	Check wireless edge inputs.	YES
68	Wireless edge loss of monitoring	Check wireless edge inputs.	YES
69	Wireless edge triggered	Check wireless edge inputs.	NO
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 control board.	NO
71	CLOSE EDGE triggered, causing reversal, NO 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 control board.	NO
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.	NO
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.	NO
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.	NO
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.	NO
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.	YES
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.	YES
82	Close input (EYE/EDGE) communication fault (expansion board)	Check the connections between the main board and the expansion board.	YES
83	Open input (EYE/EDGE) communication fault (expansion board)	Check the connections between the main board and the expansion board.	YES
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.	YES
91	Force reversal (Operator 1)	Check for obstruction. If no obstruction, check that the mechanical assembly is engaged and free to move. See Limit, Speed and Force Adjustment page 23.	YES
93	RPM / STALL reversal (Operator 1)	Check for obstruction. If no obstruction, check the operator wiring and that the mechanical assembly is engaged and free to move. Replace APE assembly.	YES
95	Motor start failure	Operator attempted to run, no response from motor drive assembly. Check connector and harness. If connected properly and still not working, replace motor and/or motor drive.	YES
96	Power Board Fault	Check connections to power board. Power cycle and retry. Replace power board if issue persists.	YES
99	Normal operation	No action required	YES

