

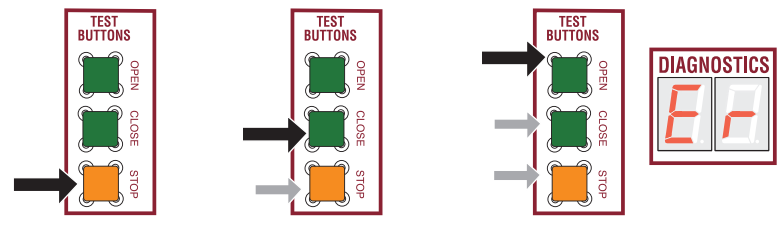
WARNING

To reduce the risk of INJURY or DEATH:

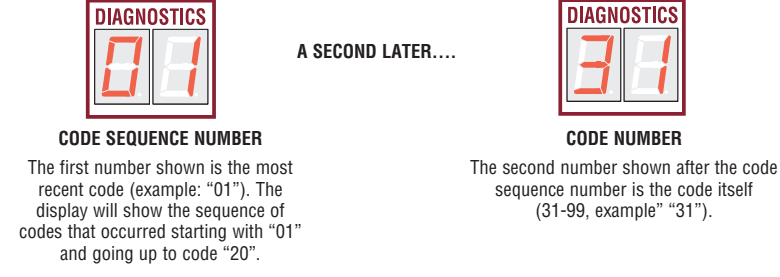
- DISCONNECT power and battery BEFORE installing or servicing operator.
- Replace ONLY with fuse of same type and rating.
- To be compliant with UL325 and industry safety guidelines, qualified monitored external entrapment protection devices such as photoelectric sensors or edge sensors are required 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.



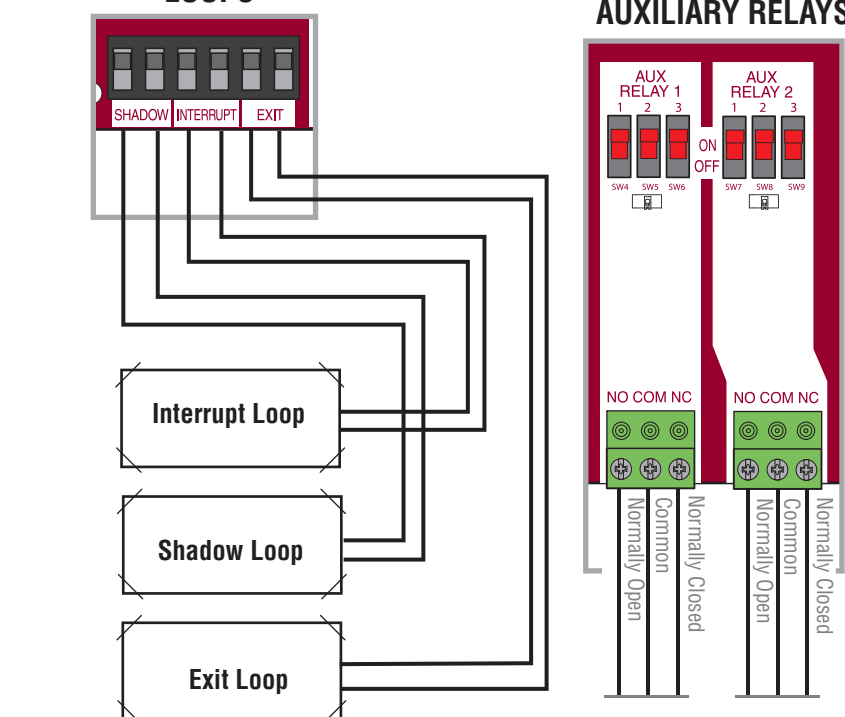
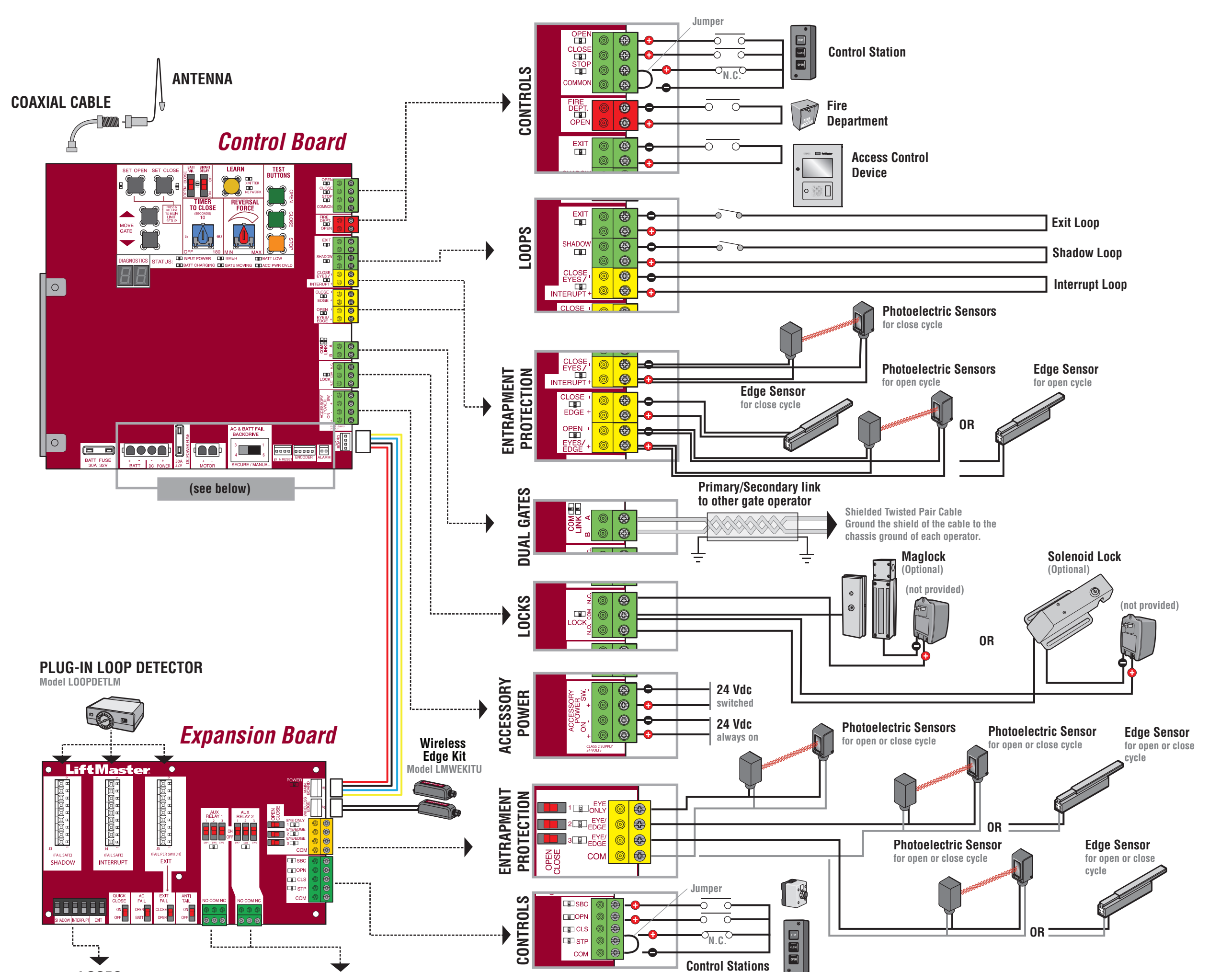
The operator will show the code sequence number followed by the code number.



CODE COLOR KEY:

- LiftMaster System (Yellow)
- Installed System (Orange)
- Informational (Green)
- External Entrapment Protection (Red)
- Inherent Entrapment Protection (Black)

| CODE | 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. |
| 32 | Linear Drive Disengaged (Arm 1) | Disengage then re-engage arm. Check wiring and connections. |
| 33 | Linear Drive Disengaged (Arm 2) | Disengage then re-engage arm. Check wiring and connections. |
| 34 | Absolute Position Encoder Error, not getting position information from encoder. | Check the operator cable connections, then reprogram the limits. |
| 35 | Max-Run-Time Exceeded Error | Check for an obstruction, then reprogram the limits. |
| 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. |
| 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). |
| 39 | Hard Stop Limit (Arm 2) | 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). |
| 40 | Battery overvoltage | Too much voltage on the battery. Check harness. Make sure there is NOT a 24V battery on a 12V system. |
| 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. |
| 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. |
| 43 | Exit Loop Error | Failure or missing loop (SHORT or OPEN - LiftMaster Plug-in Loop Detector only) Check loop wiring throughout connection. May be a short in the loop, or an open connection in the loop. |
| 44 | Shadow Loop Error | Check yellow pass-point wiring. If limits are not accurate, reprogram. |
| 45 | Interrupt Loop Error | Check yellow pass-point wiring. If limits are not accurate, reprogram. |
| 46 | Wireless edge battery low | Replace batteries in wireless edge. |
| 50 | Run-Distance Error | Gate unbalance detected. Make sure the gate is installed on a level surface and not on an excessive grade. |
| 51 | Pass-point not detected (Arm 1) | Check yellow pass-point wiring. If limits are not accurate, reprogram. |
| 52 | Pass-point not detected (Arm 2) | Check yellow pass-point wiring. If limits are not accurate, reprogram. |
| 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 reprogram the second operator. |
| 60 | Minimum number of monitored entrapment protection devices not installed. | Review monitored entrapment protection device connections. This swing gate operator will operate only after installation of a minimum of 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 control board; check for alignment or obstruction. |
| 62 | CLOSE EDGE held more than 3 minutes | Check wired input on main control board; check for alignment or obstruction. |
| 63 | OPEN EYE/EDGE held more than 3 minutes | Check wired input on main control board; check for alignment or obstruction. |
| 64 | CLOSE EYE/INTERRUPT held more than 3 minutes | Check wired input for wiring issue or obstruction. |
| 65 | CLOSE 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 control 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 control 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 canceling TTC | If an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on expansion board. |
| 74 | CLOSE 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 (Operator 1) | Check for obstruction. If no obstruction, check that the mechanical assembly is engaged and free to move. See section on Limit and Force Adjustment, and Obstruction Test in the manual. |
| 92 | Force Reversal (Operator 2) | Check for obstruction. If no obstruction, check that the mechanical assembly is engaged and free to move. See section on Limit and Force Adjustment, and Obstruction Test in the manual. |
| 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. |
| 94 | RPM / STALL Reversal (Operator 2) | Check for obstruction. If no obstruction, check the operator wiring and that the mechanical assembly is engaged and free to move. Replace APE assembly. |
| 99 | Normal Operation | No action required |



SWITCH SETTINGS

| | 1 | 2 | 3 | RELAY 1 | RELAY 2 |
|-----|-----|-----|-----|--|--|
| OFF | OFF | OFF | OFF | Relay always off | Relay always off |
| OFF | OFF | ON | OFF | Energizes at open limit | Energizes at open limit |
| OFF | ON | OFF | OFF | Energizes when not at close limit | Energizes when not at close limit |
| OFF | ON | ON | OFF | Energizes when motor is on | Energizes when motor is on |
| ON | OFF | OFF | OFF | Energizes 3 seconds prior and during gate motion | Energizes 3 seconds prior and during gate motion |
| ON | ON | OFF | ON | Energizes with AC or solar power | Energizes with battery power |
| ON | ON | ON | OFF | Energizes when gate is tampered with | Energizes when gate is tampered with |
| ON | ON | ON | ON | LEDs will blink cycle count | Not used |

