LiftMaster Internet Gateway (not provided)

To program the operator to the LiftMaster Internet Gateway:

1. Connect the ethernet cable to the LiftMaster Internet Gateway and the router.
2. Connect power to the LiftMaster Internet Gateway.
3. Download the myQ® App.
4. Set up an account and follow the app instructions to add your gate operator.
5. The LiftMaster Internet Gateway will pair to the operator if it is within range and the operator will beep if programming is successful.

The gate operator can then be controlled through the myQ® App.

To erase the gateway:

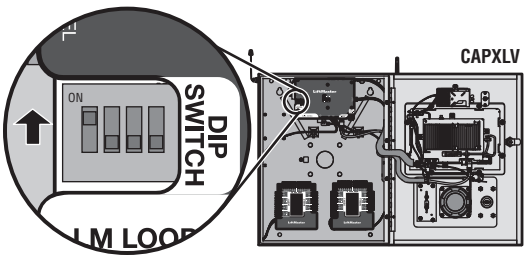
1. Press and release the LEARN button on either operator. The green XMITTER LED will light.
2. Press and release the LEARN button again on the same operator. The yellow NETWORK LED will light.
3. Press and hold the LEARN button for 5 seconds. The yellow NETWORK LED will blink (operator will beep) then turn off indicating devices have been successfully erased.

CAPXLV Connected Access Portal

The CAPXLV can communicate wirelessly to LiftMaster® UL325 2016 gate operators to send open commands, monitor gate position, and send email notifications if an error occurs in the operator (email notifications are configured in myQ® Business™). Up to 8 gate operators can be paired with the CAPXLV - one for each primary and auxiliary relay. If using dual gates, program the CAPXLV to the primary operator.

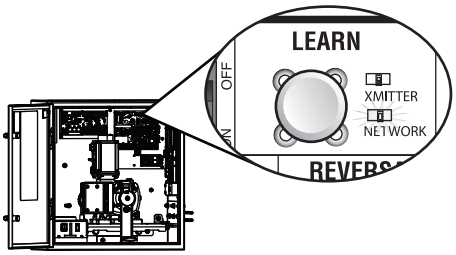
To Program the CAPXLV:

1. Enter Admin Mode - Flip dipswitch #1 to the ON position to enter Admin Mode. ***NOTE:*** *For new installations press the login button without entering information in the Admin Username and Admin Password fields.*

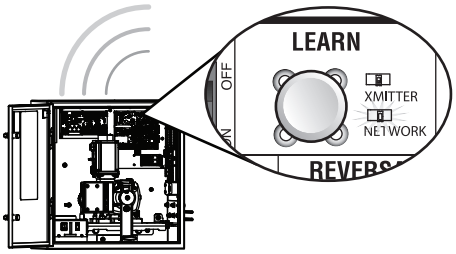


2. Select Outputs and Relay - Select the Outputs tab. Then select the desired relay on the left-hand side (1 through 4).

3. Press LEARN button on gate operator - Press and release the LEARN button on the primary operator. The green XMITTER LED will light. ***NOTE:*** *The operator will time out of programming mode after 180 seconds.*



4. Press LEARN button on gate operator again - Press and release the LEARN button again on the primary operator. The yellow NETWORK LED will light.



5. Select LEARN on display - Select the LEARN button on the display and the Learn button will go from blue to red. The gate operator and the CAPXL will beep once and the NETWORK LED on the gate operator will turn off indicating programming is successful. ***NOTE:*** *4 beeps/blinks indicate you are not programming to the primary operator. Reattempt programming from the other operator.*

6. Validate - Validate functionality by selecting Test Relay on the CAPXLV display.

For more information refer to the CAPXL documentation.

myQ® Business™:

To find out more on how to simply secure all of your access points with an easy to manage integrated system, myQ Business, please visit: www.myqbusiness.com.

Erase All Transmitter and Keypad Codes

1. Press and release the LEARN button (operator will beep and green XMITTER LED will light).
2. Press and hold the LEARN button again until the green XMITTER LED flashes and then release the button (approximately 6 seconds). All remote control codes are now erased.

Erase Limits

1. To erase the limits, press and hold the SET OPEN and SET CLOSE buttons simultaneously (5 seconds) until both the SET OPEN and SET CLOSE LEDs blink rapidly and the operator beeps.
2. Release the buttons and the SET OPEN and SET CLOSE LEDs will blink slowly indicating the limits will need to be set.

Constant Pressure Override (CPO)

Constant Pressure Override is for use with KPW5 and KPW250 keypads (not provided). The KPW5/KPW250 wireless commercial keypads are security keypads and can only be programmed to ONE gate operator (see the KPW5/KPW250 manual for complete programming instructions).

The Constant Pressure Override feature is intended to temporarily override a fault in the entrapment protection system, in order to operate the gate until the external entrapment protection device is realigned or repaired. Use the feature only in line of sight of the gate when no obstructions to travel are present. External entrapment protection devices include LiftMaster monitored photoelectric sensors and LiftMaster monitored wired and wireless edge sensors. Be sure to repair or replace these devices promptly if they are not working properly.

To use Constant Pressure Override:

1. Enter a valid 4-digit PIN.
2. Press and hold # for 5 seconds to enter CPO. Continue to hold # to keep the operator in motion. A continuous tone will sound until limit is met and/or # is released.
3. The operator will stop when either the operator reaches a limit or the user releases #.

Gate Hold Open Feature

The gate hold open feature will disable the timer and keep the gate at the open limit. The gate hold open feature can be activated with the reset button, see page 29 or on the KPW5 and KPW250 keypads (not provided).

To use the gate hold open feature on a keypad:

1. Enter a valid 4-digit PIN when the gate is at the open limit and the timer is running
2. The operator will chirp indicating the timer is canceled.

To restart the gate:

1. Re-enter the 4-digit PIN
2. Activate a hard input or a programmed remote

To Remove and Erase Monitored Entrapment Protection Devices

1. Remove the entrapment protection device wires from the terminal block.
2. Press and release the SET OPEN and SET CLOSE buttons simultaneously. The SET OPEN and SET CLOSE LEDs will turn on (entering learn limit mode).
3. Press and release both SET OPEN and SET CLOSE buttons again to turn off the SET OPEN and SET CLOSE LEDs (exiting learn limit mode).

Gate Operator Setup Examples

The following are example setups for the gate operator. Your specific site requirements may be different. Always setup the operator system to the site requirements, including all necessary entrapment protection devices.

COMMERCIAL/GENERAL ACCESS: A residential community (more than four homes) having one or more gated entrances/exits, allowing vehicle access trumps security concerns

COMMERCIAL: Business site where security (gate closed) is important

INDUSTRIAL: Large business site where security is required

SETTING	COMMERCIAL/GENERAL ACCESS	COMMERCIAL	INDUSTRIAL
Quick Close switch setting	Normally set to OFF. Normal gate close (timer or control).	Normally set to OFF. Normal gate close (timer or control).	Set to ON, so that gate closes immediately after vehicle passes CLOSE EYES/Interrupt loop.
AC Fail Open switch setting	Normally set to BATT. For local jurisdiction requirement, set to OPEN so that the gate will open approximately 15 seconds after AC power fail.	Normally set to BATT. Run on battery if AC power fails.	Normally set to BATT. Run on battery if AC power fails.
Low Battery switch setting	Normally set to OPEN. If powered from battery and battery is low, gate automatically opens and stays open.	Normally set to CLOSE. If powered from battery and battery is low, gate stays closed.	Normally set to CLOSE. If powered from battery and battery is low, gate stays closed.
Anti-Tail switch setting	Normally set to OFF. CLOSE EYES/Interrupt loop reverses a closing gate.	Set to ON. In attempt to prevent vehicle tail-gating, CLOSE EYES/ Interrupt loop pauses a closing gate.	Set to ON. In attempt to prevent vehicle tail-gating, CLOSE EYES/ Interrupt loop pauses a closing gate.
Bipart Delay switch setting	For DUAL-GATE site, set to ON for gate that delays upon opening.	For DUAL-GATE site, set to ON for gate that delays upon opening.	For DUAL-GATE site, set to ON for gate that delays upon opening.
Aux Relay Out – Open Limit Switch	Use with SAMS (Sequence Access Management System).	1. Use with SAMS (Sequence Access Management System). 2. Connect “Gate Open” indicator (e.g. light).	1. Use with SAMS (Sequence Access Management System). 2. Connect “Gate Open” indicator (e.g. light).
Aux Relay Out – Close Limit Switch	Typically not required.	Connect “Gate Close/Secure” indicator (e.g. light).	Connect “Gate Close/Secure” indicator (e.g. light).
Aux Relay Out – Gate Motion	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).
Aux Relay Out – Pre-Motion Delay	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).
Aux Relay Out – Power	Attach visual alert to know when system is charging batteries (i.e. not running on batteries).	Attach visual alert to know when system is charging batteries (i.e. not running on batteries).	Attach visual alert to know when system is charging batteries (i.e. not running on batteries).
Aux Relay Out – Tamper (Slide Gates Only)	Attach alert signal (audible or visual alert system) to indicate if gate is manually tampered with by being pushed off of close limit.	Attach alert signal (audible or visual alert system) to indicate if gate is manually tampered with by being pushed off of close limit.	Attach alert signal (audible or visual alert system) to indicate if gate is manually tampered with by being pushed off of close limit.
Cycle Quantity Feedback	Use during servicing only to determine operator cycles.	Use during servicing only to determine operator cycles.	Use during servicing only to determine operator cycles.
Fire Dept Open Input	Connect emergency access system (Knox box switch, SOS system, etc.).	Typically not required.	Typically not required.

OPERATOR OVERVIEW

Control Board Overview

1 SET OPEN Button: The SET OPEN button sets the OPEN limit. See *Adjustment* section.

2 SET CLOSE Button: The SET CLOSE button sets the CLOSE limit. See *Adjustment* section.

3 DIAGNOSTICS Display: The diagnostics display will show the operator type, firmware version, and codes. he operator type will display as "IH" for heavy and "IN" for light, followed by a "24" which indicates the operator type as IHSL24UL/ INSL24UL. The firmware version will show after the operator type, example "1.2".

4 BATT FAIL:

- When AC power is OFF and battery voltage is critically low the gate will latch at a limit until AC power is restored or batteries voltage increases.
- Option select switch set to OPEN forces gate to automatically open and then latch at the OPEN limit until AC power is restored or battery voltage increases.
- Option select switch set to CLOSE forces gate to latch at CLOSE limit if at CLOSE limit or on next CLOSE command until AC power restored or battery voltage increases.
- Constant pressure on a hard command input overrides to open or close the gate.
- Critically low battery is less than 23 VDC.

5 BIPART DELAY Switch: The BIPART DELAY switch is used only for dual gates. See *Bipart delay/synchronized closed* page 19.

6 LEARN Button: The LEARN button is for programming remote controls and the network.

7 TEST BUTTONS: The TEST BUTTONS will operate the gate (OPEN, STOP and CLOSE).

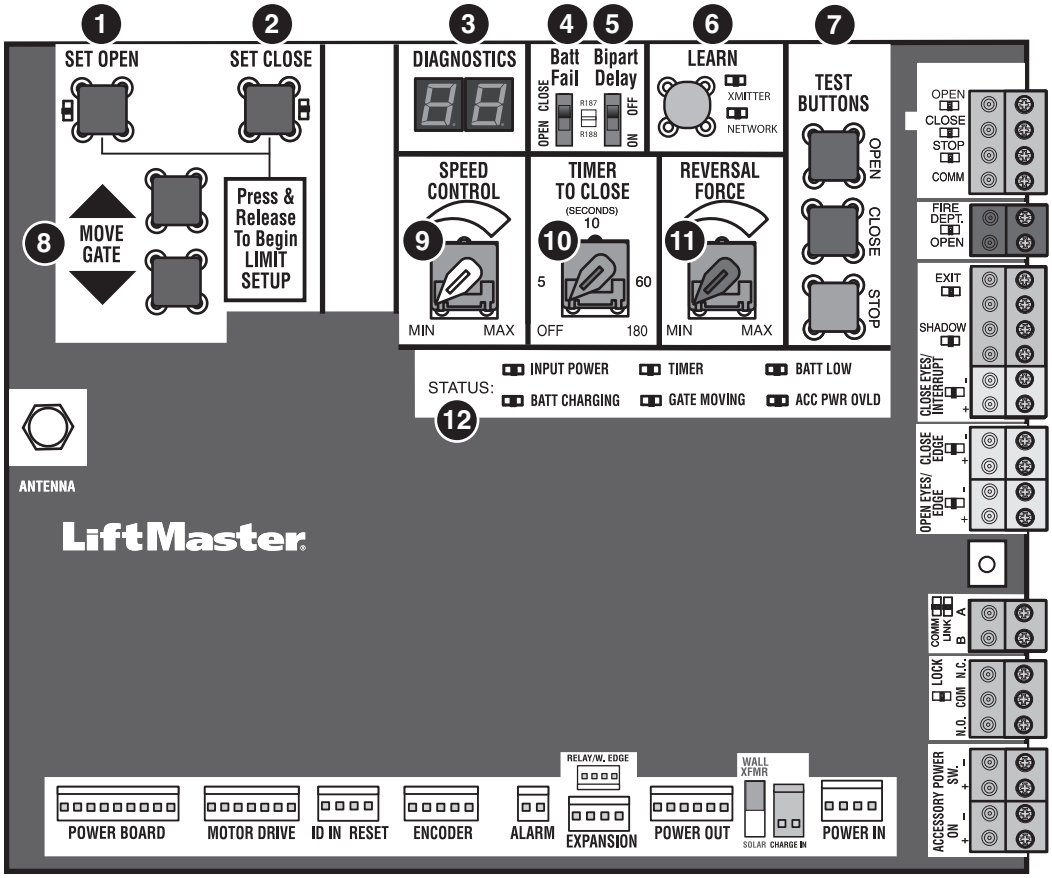
8 MOVE GATE Buttons: The MOVE GATE buttons will either open or close the gate when the operator is in Limit setting mode. See *Adjustment* section.

9 SPEED CONTROL dial: Sets maximum gate speed. See *Speed Control* page 22.

10 TIMER-TO-CLOSE dial: The TIMER-TO-CLOSE (TTC) dial can be set to automatically close the gate after a specified time period. The TTC is factory set to OFF. If the TTC is set to the OFF position, then the gate will remain open until the operator receives another command from a control. Rotate the TIMER-TO-CLOSE dial to the desired setting. The range is 0 to 180 seconds, 0 seconds is OFF. ***NOTE:*** *Any radio command, single button control, or CLOSE command on the control board prior to the TTC expiring will close the gate. The TTC is reset by any signals from the open controls, loops, close edges, and close photoelectric sensors (IR's).*

11 REVERSAL FORCE dial: The REVERSAL FORCE dial fine tunes the force. See *Fine Tune the Force* page 22.

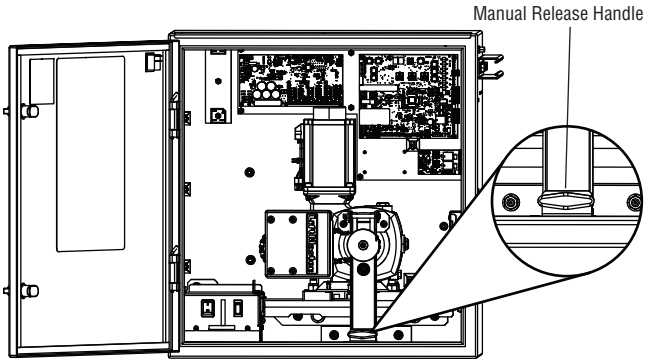
12 STATUS LEDs: The STATUS LEDs indicate the status of the operator. See Status LED Chart in the *Troubleshooting* section.



Manual Disconnect

1. Open the cabinet door.
2. Locate the black T-shaped manual release handle attached to the gearbox in the bottom of the cabinet.
3. Pull firmly until it latches into place.

To resume normal function, push the plate down to release the handle and re-engage the motor and the gearbox.



Reset Button

The reset button has the following functions:

- Press the reset button to stop a moving gate during a normal open/close cycle, like a stop button.
- Press the reset button once while the gate is in open position to disable the Timer-to-Close. The gate will stay in the open position. To restart the Timer-to-Close either press the reset button or activate the gate with a programmed remote control.
- Press the reset button to shut off the alarm and reset the operator.