

# K1A6426-1 CONTROL BOARD REPLACEMENT KIT

## INSTALLATION

**NOTE:** Replacing the control board will require the limits and all the remote controls to be programmed.

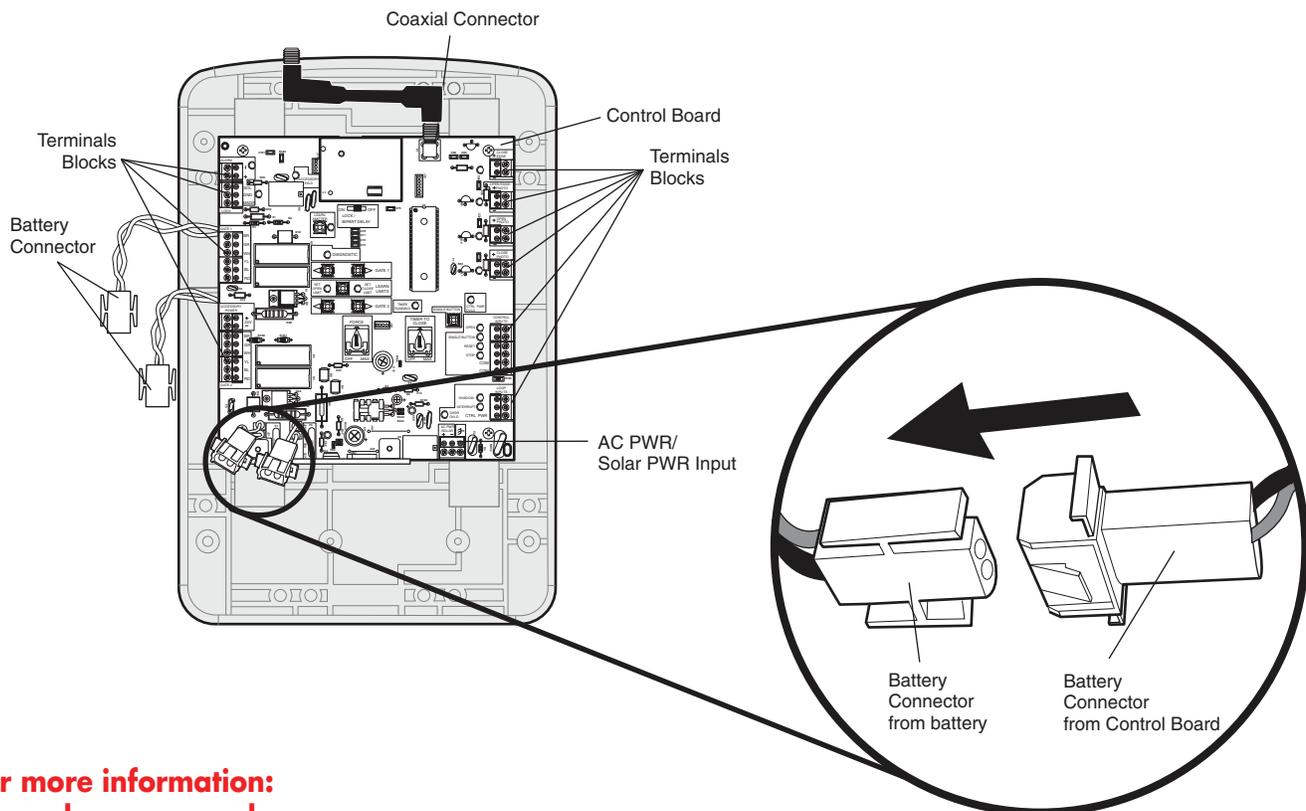
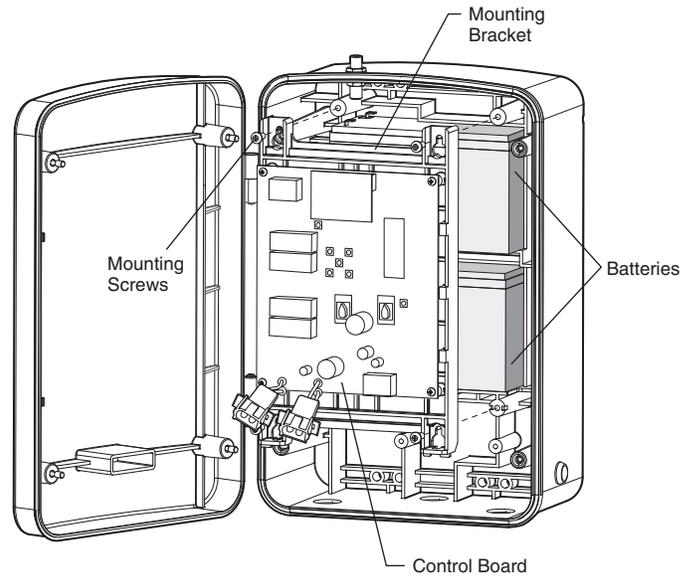
1. Disconnect all power and batteries to the gate operator.
2. Remove screws and open the control box.
3. Disconnect coaxial connector and all terminal blocks from the control board.

**NOTE:** For installation of new control board, be sure to note the locations of all terminal block connections.

4. Disconnect battery connectors.
5. Loosen mounting screws. Slide the mounting bracket with control board up and remove. Set aside for reinstallation.
6. Copy all settings from the existing control board to new control board (Force and Timer to Close).
7. Install new control board and bracket, secure with mounting screws.
8. Reconnect all terminal blocks and coaxial cable.
9. Reconnect battery connectors. Verify the **DIAGNOSTIC LED** blinks.
10. Reconnect power to operator.
11. Reinstall control box cover and secure with screws.
12. Learn the limits for the gate operator (refer to detailed instructions on next page). Program all remote controls.
13. Test the force adjustment.
14. Verify all other inputs and outputs as necessary (safety sensors, edges, loops, locks, alarm, reset, accessory power, open and single button).

## WARNING

To avoid **SERIOUS PERSONAL INJURY** or **DEATH** from a moving gate, disconnect **ALL** electric and battery power **BEFORE** performing **ANY** service or maintenance.



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[www.devancocanada.com](http://www.devancocanada.com)  
or call toll free at 855-931-3334

# PROGRAMMING

## Program Limits

The limits are internal settings that indicate when the gates are in the fully open position and the fully closed position. For proper functionality, the limits must be programmed during the installation process. The programming uses a combination of buttons on the control board.

The specific buttons used for programming depends on which side of the gate the control box is mounted and how many operators the installation includes. Refer to pages 11 and 13 to determine if the gate is Left- or Right-handed.

If a mistake is made during programming press the **RESET** button on the outside of the control box to start over.

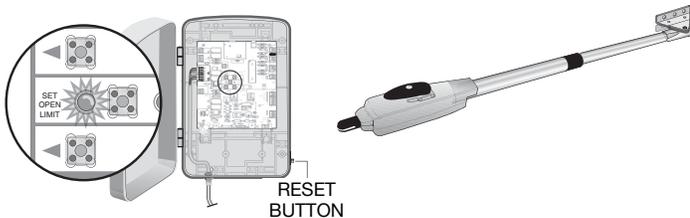
### SINGLE ARM LEFT-HAND SIDE

**NOTE:** The programming can be exited at any time by pressing the **RESET** button. The programming times-out automatically after 60 seconds of inactivity.

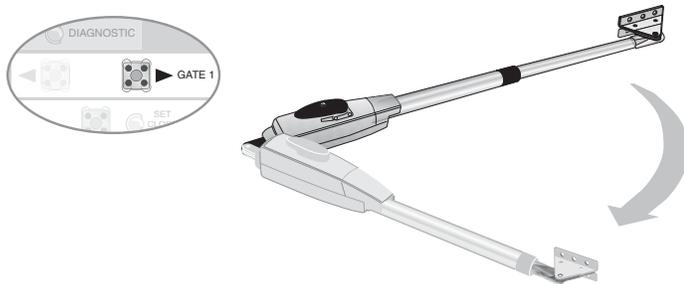
#### PROGRAM OPEN

With the gate in the **CLOSED** position, press the **LEARN LIMITS** button (**SET OPEN LIMIT** LED will blink).

LEARN LIMITS button



Press the **Gate 1** right button to move gate to the desired OPEN position. When gate is in the desired position, press the **LEARN LIMITS** button again. Control board will beep.



#### PROGRAM CLOSE

Press the **Gate 1** left button to move gate to the desired CLOSED position. When gate is in the desired closed position, press the **LEARN LIMITS** button again.



The control board beeps and the **SET OPEN LIMIT** and **SET CLOSE LIMIT** LEDs stop blinking, programming is now complete.

Test the limits by pressing the SBC to open and close the gate.

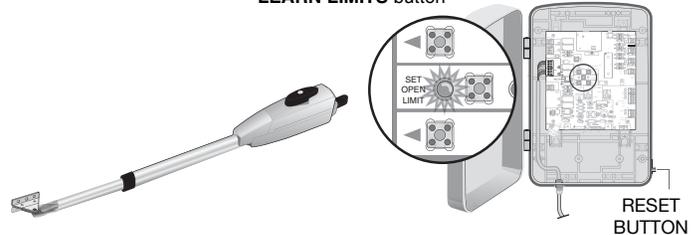
**NOTE:** If the **SET OPEN LIMIT** LED is still blinking, the limits were not programmed successfully. Repeat the programming making sure the gate is fully opened and closed for each respective limit. If the problem persists, refer to the Troubleshooting section.

### SINGLE ARM RIGHT-HAND SIDE

#### PROGRAM OPEN

With the gate in the **CLOSED** position, press the **LEARN LIMITS** button (**SET OPEN LIMIT** LED will blink).

LEARN LIMITS button



Press the **Gate 1** left button to move gate to the desired OPEN position. When gate is in the desired position, press the **LEARN LIMITS** button again. Control board will beep.



#### PROGRAM CLOSE

When the **SET CLOSE LIMIT** LED blinks, press the **Gate 1** right button. When gate is in the desired closed position, press the **LEARN LIMITS** button.



**NOTES:**

- If one gate is overlapping the other, the gate that is overlapping must be connected to GATE 1 so it will start moving before the other gate; gate 2 may need to be closed first if there is overlap or a gate lock is being used.
- The programming can be exited at any time by pressing the RESET button. Programming times-out automatically after 60 seconds of inactivity.

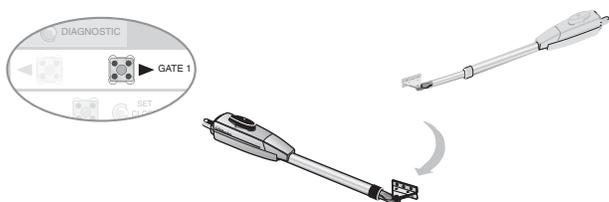
**DUAL GATE (LEFT-SIDE PRIMARY OPERATOR)**

**PROGRAM OPEN**

With the gate in the **CLOSED** position, press the **LEARN LIMITS** button (**SET OPEN LIMIT** LED will blink).



Press the **GATE 1** right button to open the left operator.



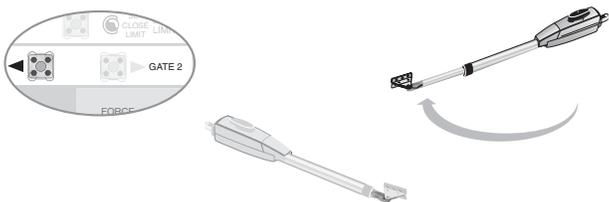
Press the **GATE 2** right button to move the right operator into the OPEN position.



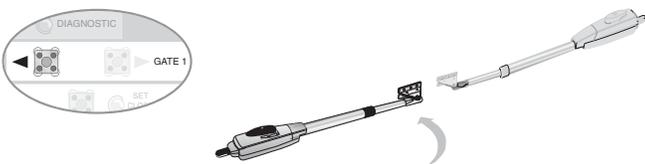
Press the **LEARN LIMITS** button. Control board will beep.

**PROGRAM CLOSE**

When the **SET CLOSE LIMITS** LED blinks, press the **GATE 2** left button to close the right operator.



Press the **GATE 1** left button to close the left operator.



Press the **LEARN LIMITS** button.

The control board beeps and the **SET OPEN LIMIT** and **SET CLOSE LIMIT** LEDs stop blinking, programming is now complete.

Test the limits by pressing the SBC to open and close the gate.

**NOTE:** If the **SET OPEN LIMIT** LED is still blinking, the limits were not programmed successfully. Repeat the programming making sure the gate is fully opened and closed for each respective limit. If the problem persists, refer to the Troubleshooting section.

**DUAL GATE (RIGHT-SIDE PRIMARY OPERATOR)**

**PROGRAM OPEN**

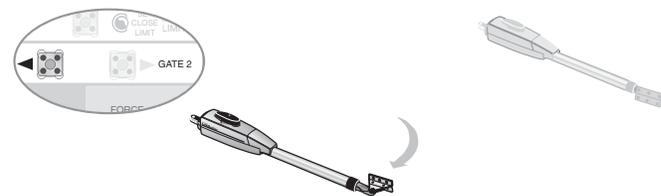
With the gate in the **CLOSED** position, press the **LEARN LIMITS** button (**SET OPEN LIMIT** LED will blink).



Press the **GATE 1** left button to open the right operator.



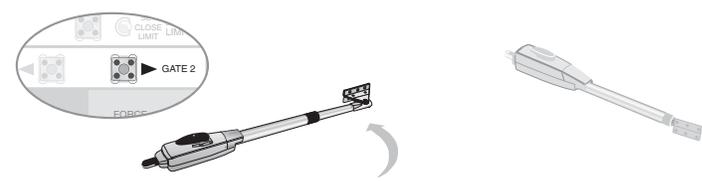
Press the **GATE 2** left button to move the left operator into the OPEN position.



Press the **LEARN LIMITS** button. Control board will beep.

**PROGRAM CLOSE**

When the **SET CLOSE LIMITS** LED blinks, press the **GATE 2** right button to close the left operator.



Press the **GATE 1** right button to close the right operator.



Press the **LEARN LIMITS** button.

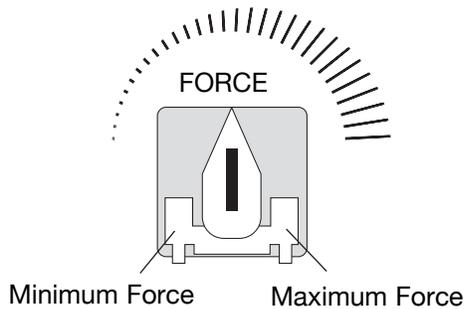
## FORCE ADJUSTMENT

The operator is equipped with an obstruction sensing feature. If the gate encounters an obstruction the operator will automatically reverse direction and stop. Based on the length and weight of the gate it may be necessary to make force adjustments. The force adjustment should be high enough that small objects such as branches or wind will not cause nuisance interruptions but low enough to prevent serious injury to a person or a vehicle.

### To adjust the force:

Using the 3-button remote or the Single Button Control (SBC) button on the control board, open and then close the gate. If the gate stops or reverses before reaching the fully open or closed position increase the force by turning the force control slightly. Run operator through a complete cycle.

**NOTE:** Weather conditions can affect the gate movement, so seasonal adjustment may be required. The force control is factory set to the mid position.



## TIMER-TO-CLOSE (TTC)

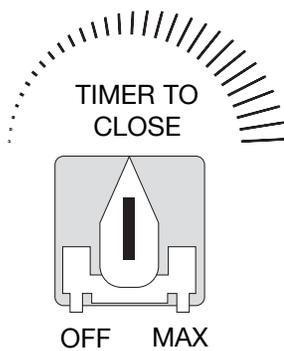
The **TIMER TO CLOSE** feature can be set to automatically close the gate after a specified time period. The TTC is factory set to OFF.

If the TTC is set to the OFF position, then the gate will remain open until the operator receives another command from a remote control or SBC.

### To set the TIMER TO CLOSE:

Rotate the **TIMER TO CLOSE** dial to the desired setting. The range is 0 to 180 seconds, 0 seconds is OFF.

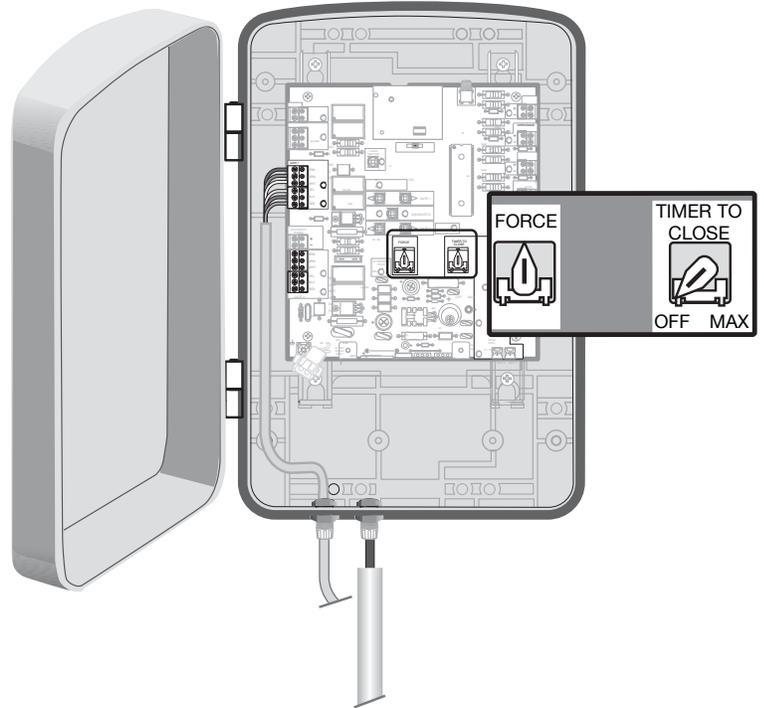
**NOTE:** Any radio command, SBC, or CLOSE command on the control board prior to the TTC expiring will close the gate. The TTC is reset by any signals from the loops, close edges, and close safety sensors (IR's).



## WARNING

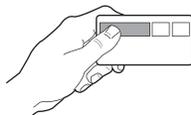
Without a properly installed safety reversal system, persons (particularly small children) could be **SERIOUSLY INJURED** or **KILLED** by a closing gate.

- Too much force on gate will interfere with proper operation of safety reversal system.
- **NEVER** increase force beyond minimum amount required to close gate.
- **NEVER** use force adjustments to compensate for a binding or sticking gate.
- If one control (force or travel limits) is adjusted, the other control may also need adjustment.
- After **ANY** adjustments are made, the safety reversal system **MUST** be tested. Gate **MUST** reverse on contact with a rigid object.



### To Add or Reprogram a Remote Control (not provided)

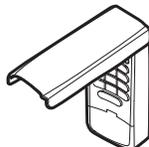
1. Press **LEARN XMITTER** button and release (LED will light up).
2. Press remote button, the LED will flash, alarm output will activate twice.
3. Repeat steps 1 and 2 until all remote controls are programmed (50 remote controls maximum).



**NOTE:** For highest level of security, we recommend the Security® line of products. Refer to Accessories.

### To Add a Wireless Keyless Entry (not provided)

1. Press **LEARN XMITTER** button and release (LED will light up).
2. Enter a four digit personal identification number (PIN) of your choice on the keypad.
3. Then press ENTER, the LED will flash, alarm output will activate twice.



### TO ERASE ALL CODES

To deactivate any unwanted remote controls or keyless entries, first erase all codes:

Press and hold the **LEARN XMITTER** button on control board until the learn indicator light goes out (approximately 6 seconds). All previous codes are now erased. Reprogram each remote control or keyless entry you wish to use.

### TEST

## ⚠ WARNING

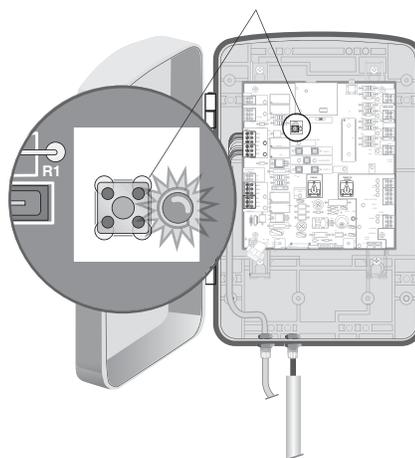
To prevent possible **SERIOUS INJURY** or **DEATH** from a moving gate or garage door:

- ALWAYS keep remote controls out of reach of children. NEVER permit children to operate, or play with remote control transmitters.
- Activate gate or door **ONLY** when it can be seen clearly, is properly adjusted, and there are no obstructions to door travel.
- ALWAYS keep gate or garage door in sight until completely closed. NEVER permit anyone to cross path of moving gate or door.

**NOTICE:** To comply with FCC and/or Industry Canada (IC) rules, adjustment or modifications of this receiver and/or transmitter are prohibited, except for changing the code setting or replacing the battery. THERE ARE NO OTHER USER SERVICEABLE PARTS.

Tested to Comply with FCC Standards FOR HOME OR OFFICE USE. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Remote Control **LEARN XMITTER** Button



## IMPORTANT SAFETY INSTRUCTIONS

### ⚠ WARNING

### To reduce the risk of **SEVERE INJURY** or **DEATH**:

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. NEVER let children operate or play with gate controls. Keep the remote control away from children.
3. ALWAYS keep people and objects away from the gate. **NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.**
4. Test the gate operator monthly. The gate **MUST** reverse on contact with a rigid object or stop when an object activates the non-contact sensors. After adjusting the force or the limit of travel, retest the gate operator. Failure to adjust and retest the gate operator properly can increase the risk of **INJURY** or **DEATH**.
5. Use the emergency release **ONLY** when the gate is not moving.
6. **KEEP GATES PROPERLY MAINTAINED.** Read the owner's manual. Have a qualified service person make repairs to gate hardware.
7. The entrance is for vehicles **ONLY**. Pedestrians **MUST** use separate entrance.
8. Disconnect **ALL** power **BEFORE** performing **ANY** maintenance.
9. **SAVE THESE INSTRUCTIONS.**

1. Verify gate operator functions properly.
2. Test the safety reverse. Gate must reverse on contact with a rigid object. If the gate stops on the obstruction, reprogram the Forces or limits.

**NOTE:** If the gate hits 2 consecutive obstructions, the operator will stop, the entrapment alarm will sound. No commands at this time will operate gate. The operator will require resetting. The reset button is located on the outside of the control box. After the operator is reset, normal functions will be available. The alarm will sound for up to 5 minutes (operator will still need to be reset).

For complete troubleshooting information refer to the owner's manual.



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PLEASE SUPPLY THE  
FOLLOWING INFORMATION:**

- ✓ PART NUMBER
- ✓ DESCRIPTION
- ✓ MODEL NUMBER