

Sentry 300 D Gate 2 Installation

PN #020325

The Gate 2 kit contains linear actuator with 1 1/4" hole plug, 50 feet of 5 conductor cable, wire nuts, junction box and mounting hardware. The Sentry control box is equipped with two knock outs for the gate 2 linear actuator cable. One knock out is 1 1/4" and is intended for non conduit installation (not advised). The other knock out is 7/8" and designed for 1/2" conduit fitting for conduit installation (recommended). (see figure)

If conduit is being installed knock out 7/8" hole. If conduit is not being installed knock out 1 1/4" hole.

Remove the knock out that is right for your installation.



Control Box Knock Outs

Installing Gate 2 Linear Actuator

1. Install Gate 2 linear actuator using the procedure described for the Gate 1 actuator.

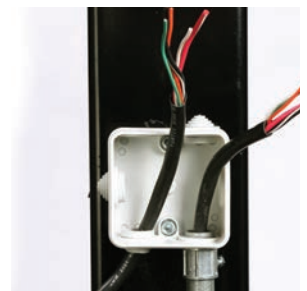
The linear actuator for Gate 2 comes with an 8' cable that must be cut and spliced in the following manner once linear actuator is installed.

Once Actuator is installed:

1. Locate the linear actuator cable connector and measure 18" from connector end and cut (see figure).
2. Save this 8 pin connector and pigtail for step 21 on next page.
3. Install junction box on Gate 2 hinge post below linear actuator using the 2 self tapping metal screws.

NOTE: Sentry 300 D Gate 2 kit includes 50' of extension cable, if distance between control box and junction box exceeds this distance it is recommended to purchase a cable that will not require additional splices in the cable. Visit web page to order Sentry 300 D Gate 2 extension cable www.sentrygateopener.com.

4. If conduit is being installed attach 1/2" conduit adapter to the control box 7/8" knock out.
5. Route linear actuator cable to junction box and determine length needed (see figure).
6. Cut cable longer than needed for future considerations (see figure).
7. Remove 2" of cable insulation to expose the 5 wires.
8. Caution: Do not damage internal wires.
9. Remove approximately 1/2" of insulation from each wire.
10. If installing conduit attach 1/2" adapter to junction box. If not, cut rubber knock out (supplied) to fit cable.
11. Install Gate 2 extension cable into the junction box (see figure).
12. Using supplied wire nuts connect the 5 wires matching the wire colors (see figure).
13. Do not install junction box cover until all connections have been completed
14. With extension cable now installed in junction box, route the other end of the extension cable to the control box.
15. Install wires into control box wire compartment.
16. Snap 1 1/4" hole plug into control box if conduit was not used.



17. Cut extension cable to length allowing for future considerations.
18. Remove 2" of cable insulation to expose the 5 wires.
Caution: do not damage internal wires.
19. Remove approximately 1/2" of insulation from each wire.
20. Locate 8 pin connector and pigtail previously cut from Gate 2 linear actuator cable. Prepare wires for the splice.
21. Connect the 5 wires from extension cable to the 5 wires from the pigtail by matching the wire colors. Then secure with supplied wire nuts.
22. Roll cable and place in wire compartment.
23. Install junction box cover and securely snap in place.



Connecting Gate 2 Linear Actuator to Control Board

1. Locate the power connector attached to the linear actuator cable (red and black wires).
2. Connect it to the remaining Plug N Go harness linear actuator power plug. These connectors are designed so that incorrect connection is not possible and it does not matter which connector is used.
3. Locate the linear actuator cable 8 pin plug. Connect it to the Gate 2 connector located on the Sentry Control board adjacent to the Gate 1 connector. Securely snap in place. Once all connections are made place wires in wire compartment.

Preparing to Operate Gate 2 for the First Time

Using the "Open/Close Command" button on the control board open Gate 1. This is done because Gate 2 was just installed in the open position and now both gates should be in the open position.

Operating Gate 2 for the first time and final adjustments

1. Locate the control switches and turn on switch 4 (press down on the right side).
2. Gate 1 and Gate 2 should be in the open position if installed correctly.
3. Press the "Open/Close Command" button to close Gate 1 and Gate 2.
4. Gate 2 limit adjustment has not been made so it should stop short of fully closed.
5. Turn "OFF" control switch 3, disabling Gate 1.
6. Now use the "Open/Close Command" button to cycle Gate 2 and adjust Gate 2 close limit to match Gate 1 close position.
7. With both gates now closed, turn "ON" control switch 3 enabling Gate 1.
8. Press "Open/Close Command" to open both gates and then close, adjust limit positions if necessary.

CAUTION: To reduce the risk of injury, USAutomatic strongly recommends the installation of additional safety devices such as Photo Eye Sensors and Safety Edges. Consult an authorized installing dealer or www.Sentrygateopener.com for a complete explanation of options and see the Safety Section of this manual on pages 3 to 4.

