

How to install the Rytec Pathwatch 2.0

NOTICE

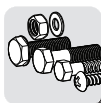
Contract Rytec Technical support at 800-628-1909 if you have questions about these instructions.

Before you begin

1

Make sure that you have all supplies and tools.

Supplies that you provide



Mounting hardware for the mounting bracket

Tools you will need



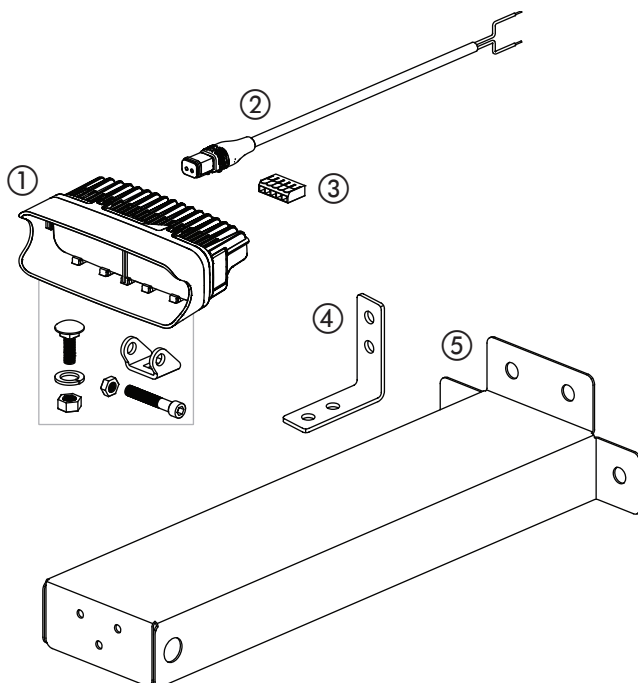
Power drill and step drill bit (if additional hole needed in System 4 controller)



Cement drill (if needed to mount the bracket)

How to install the Rytec Pathwatch 2.0

1



1210702-0B Single Pathwatch kit

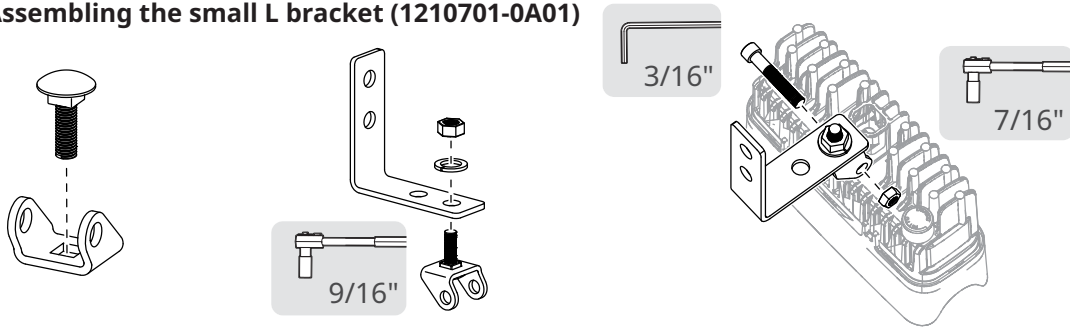
ID	Part No.	Description	Qty.
①	00122061	Pathwatch unit (includes hardware shown)	1
②	00122062	Cable, 8 meters	1
③	00112127	5-position jumper block	3
④	1210701-0A01	L bracket, small	1

1210702-0A Double Pathwatch kit

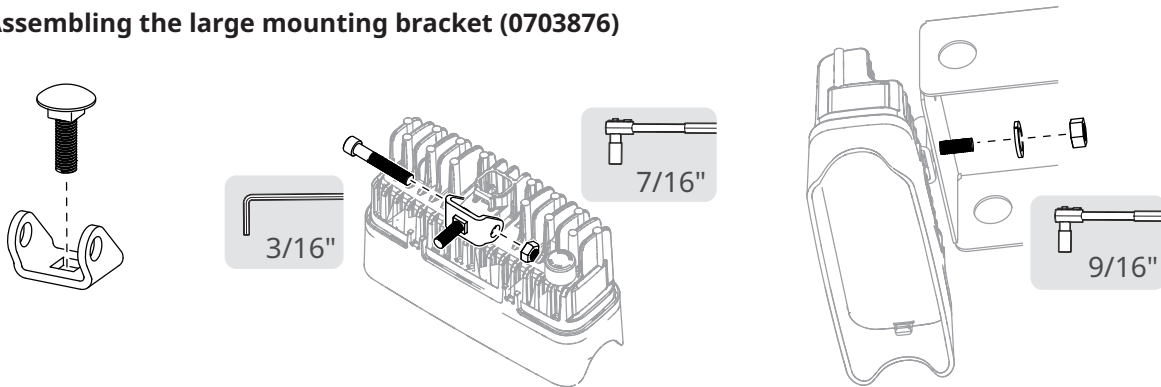
ID	Part No.	Description	Qty.
①	00122061	Pathwatch unit (includes hardware shown)	2
②	00122062	Cable, 8 meters	2
③	00112127	5-position jumper block	3
④	1210701-0A01	L bracket, small	2
⑤	0703876	Large mounting bracket	1

Suggested mounting configurations. Other configurations are possible.
Mounting hardware to be supplied by operator or installer.

Assembling the small L bracket (1210701-0A01)

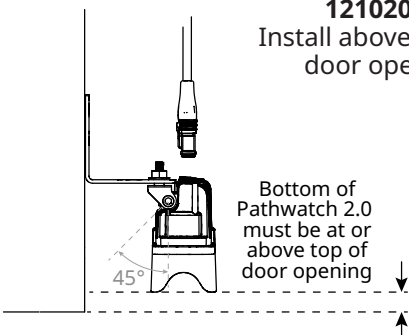


Assembling the large mounting bracket (0703876)



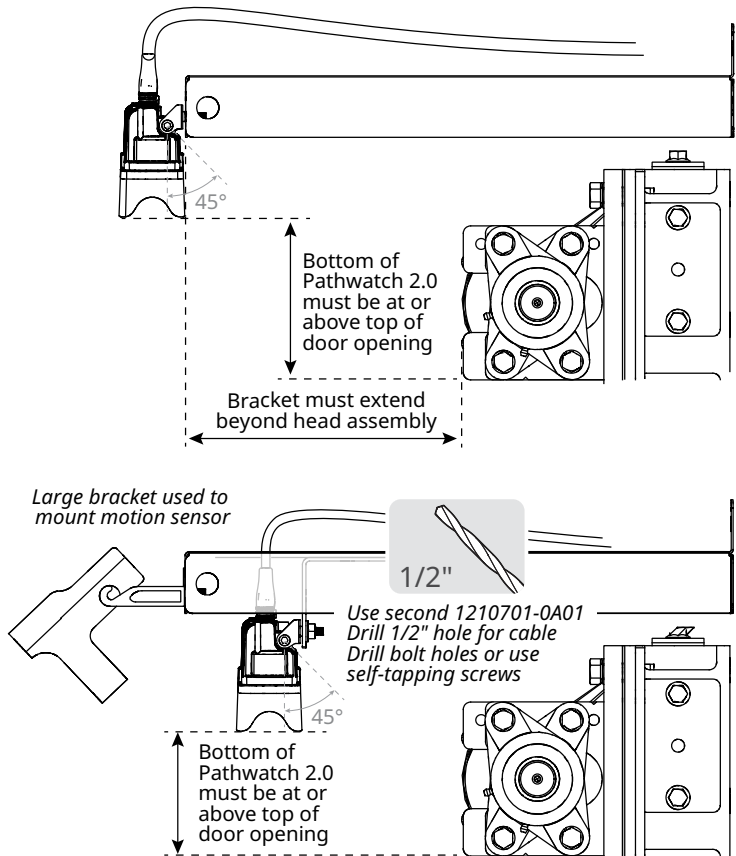
**1210702-0B
1210202-0A**

Install above rear door opening



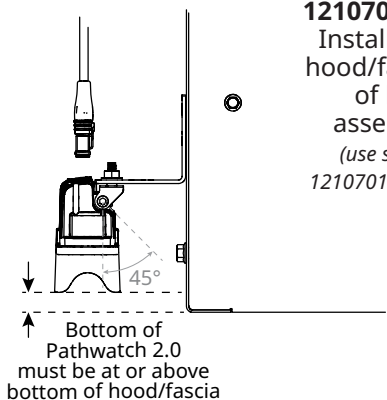
1210702-0A

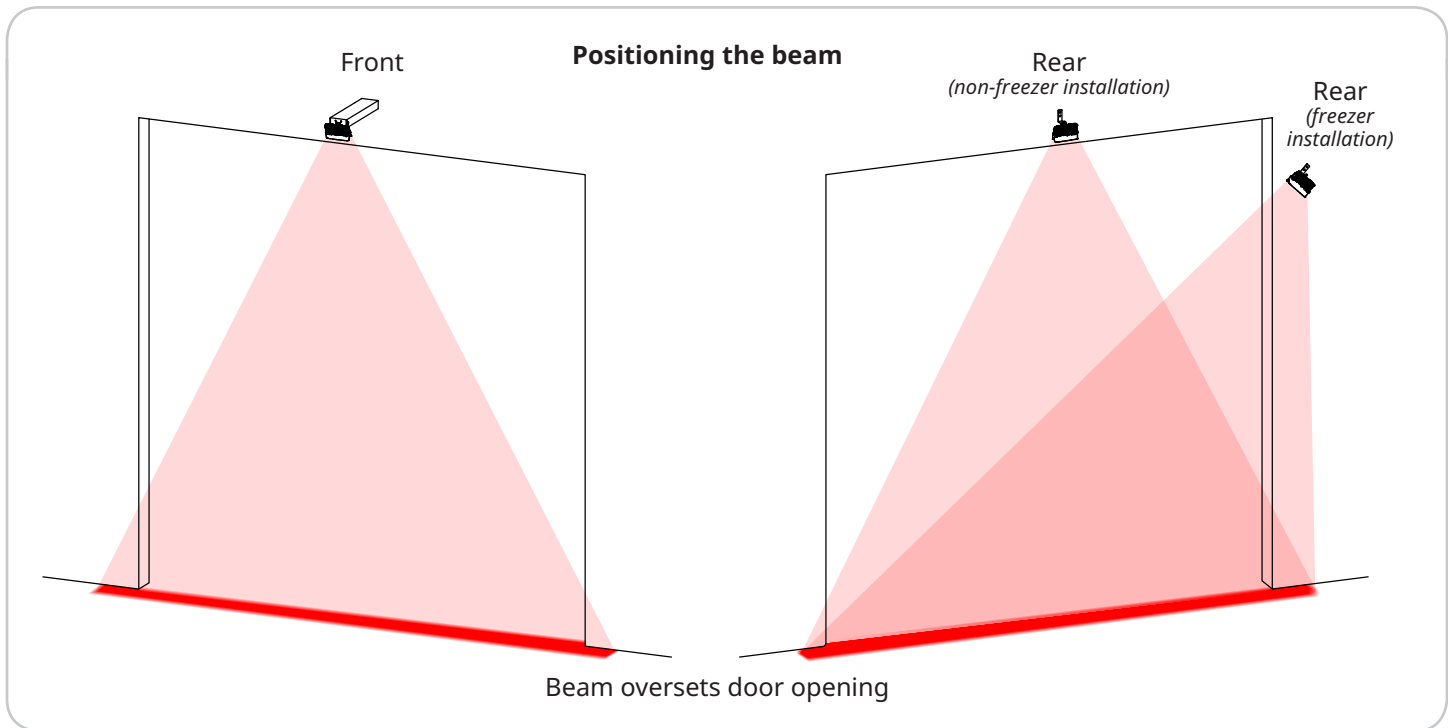
Install above head assembly, no hood/fascia (use 0703876)



1210702-0A

Install into hood/fascia of head assembly
(use second 1210701-0A01)





How to wire the Rytec Pathwatch 2.0

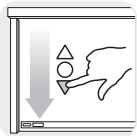


WARNING: Do not open the System 4 controller until the power disconnect is in the OFF position, a lockout/tagout is complete, and at least five (5) minutes have elapsed.

Components in the controller hold a charge when the door is not in operation, which can cause shock, burns, or death.

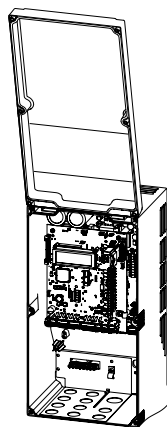
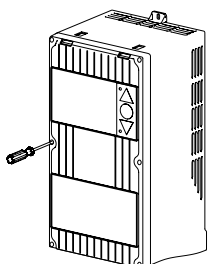


1



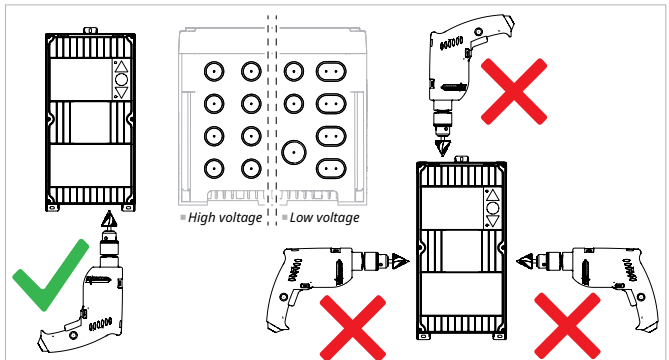
2

Loosen the six capture screws on the System 4 controller. **Flip open** the hinged cover panel.



3

If necessary, **drill** a hole in the control box for the Pathwatch 2.0 cable.

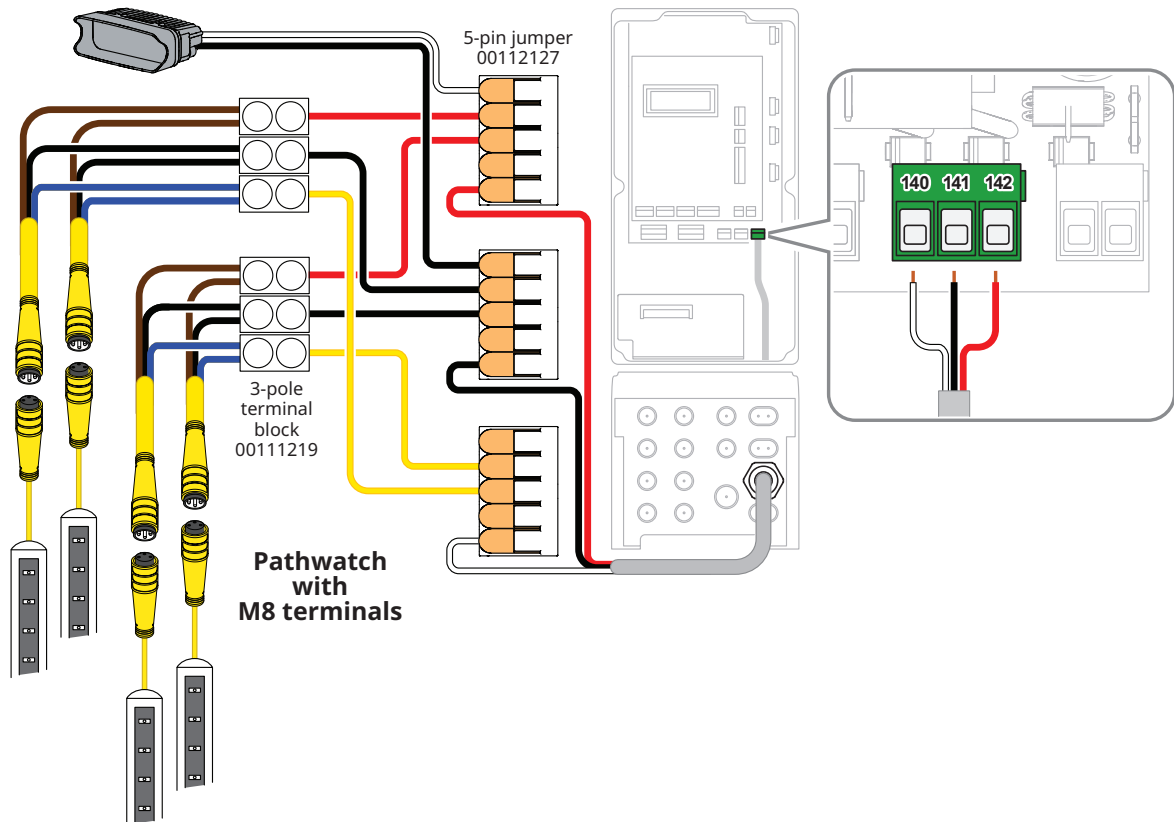
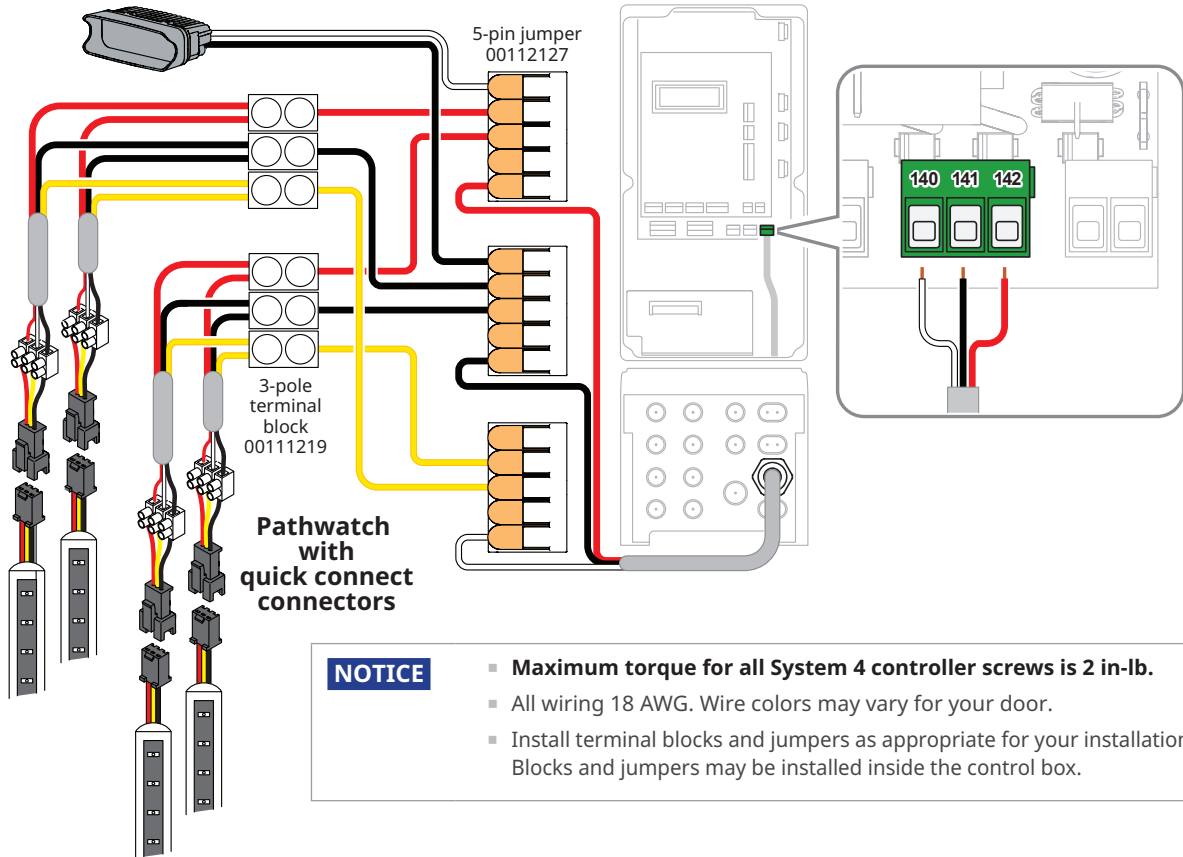


NOTICE

- The cable must enter through the **bottom of the box**. Drilling through the top or side of the box voids the warranty for the door.
- Low voltage cables must enter **through the right side** of the box bottom.
- **Holes must be drilled.** The indentations on the controller bottom are not knockouts.

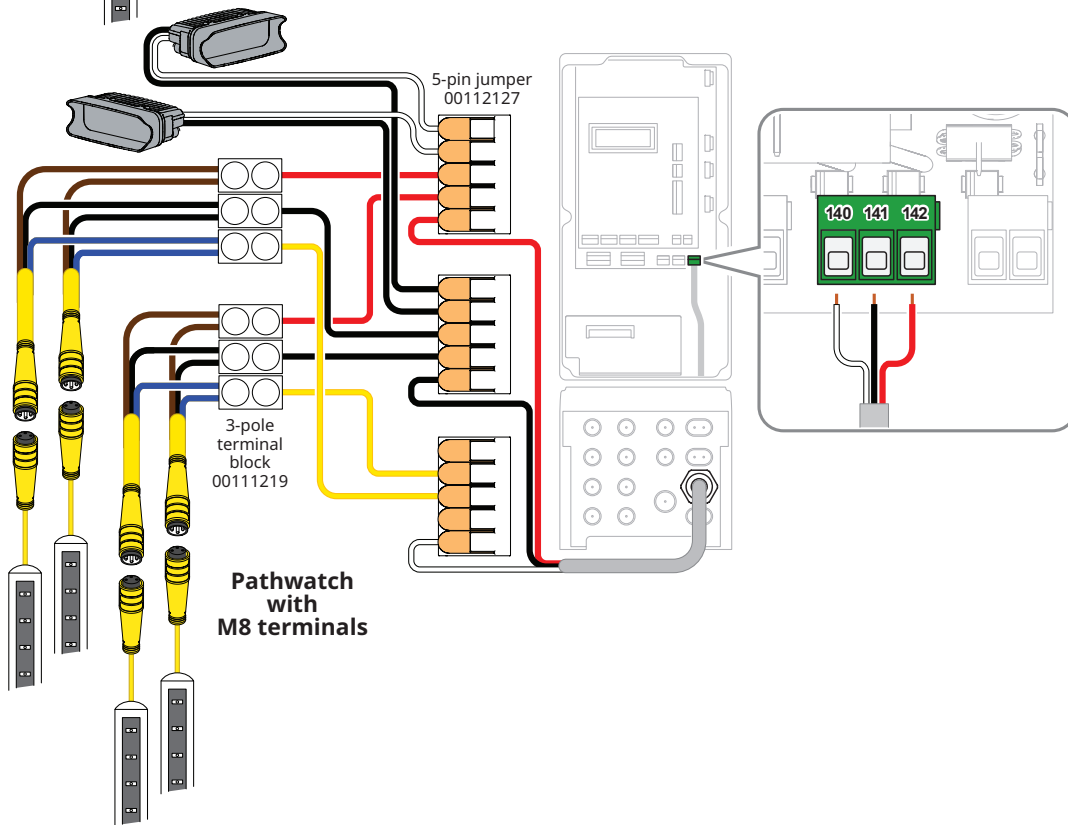
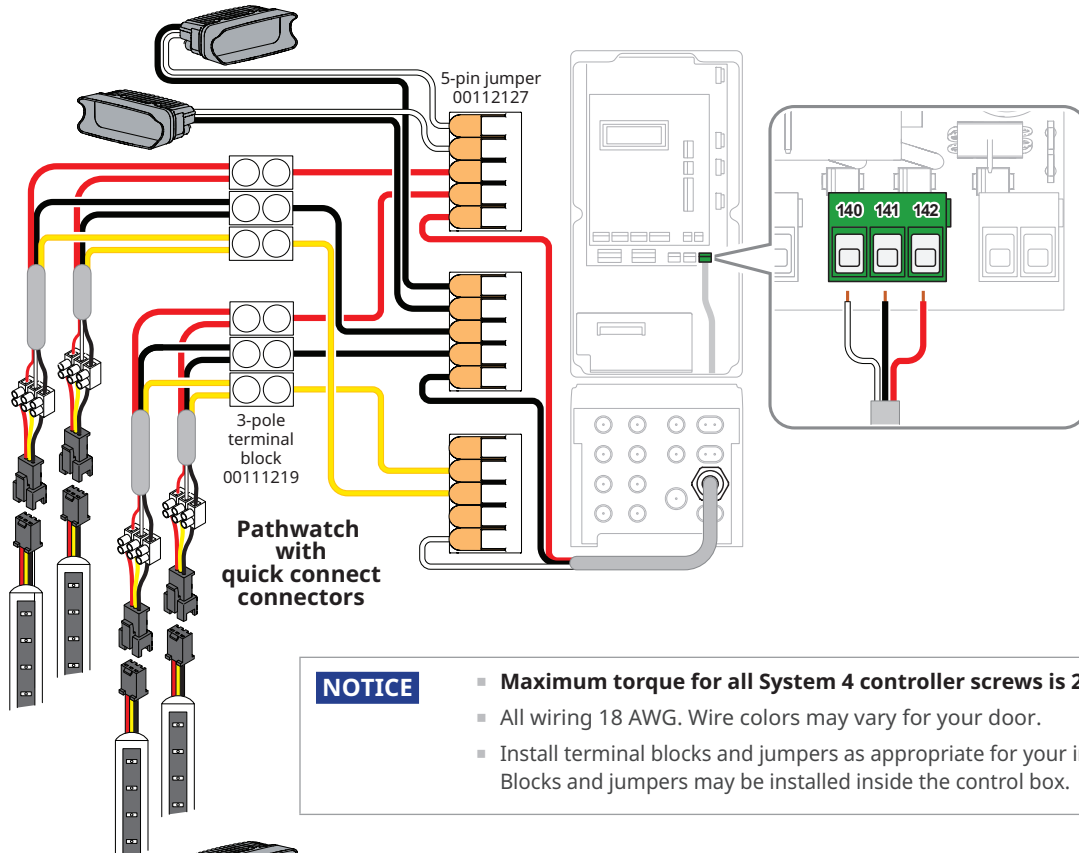
4

Connect the wiring to the System 4 controller, single Pathwatch 2.0 (1210702-0B)



5

ALTERNATE: Connect the wiring to the System 4 controller, double Pathwatch 2.0 (1210702-0A).



6

Remove the lockout/tagout and turn the power disconnect to the ON position.

How to set the System 4 controller parameters for the Pathwatch 2.0



NOTE: If you don't know how to set a parameter, follow the steps in *How to set a System 4 controller parameter* on the next page.

These parameters must be **checked** and, if necessary, **changed**.

Parameter Number	Value for Pathwatch 2.0
7D0	0
7D1	0.0
7D2	0.0
7D3	0.0
7D4	0
7D5	0 Inc
7D6	0
7D7	0
7D8	0
7D9	0
7DA	0
7DB	0
7DC	0
7DD	0
7DE	0
7E0	12
7E1	1000.0
7E2	0.0
7E3	0.0
7E4	0
7E5	0 inc
7E6	4
7E7	0
7E8	1
7E9	0
7EA	3
7EB	1
7EC	0
7ED	2

Standard operation of Pathwatch after Pathwatch 2.0 parameters are set

1 Yellow LEDs are deactivated in all Pathwatch.

2 While door opens:
All Pathwatch shine solid red.

3 Door fully open:
All Pathwatch off.

4 During countdown to door closing:
All Pathwatch flash in one-second cycle.

5 While door closes:
All Pathwatch shine solid red.

6 When door is in fault:
All Pathwatch flash slowly.

7 When parameters are being set or changed:
All Pathwatch flash slowly.

How to set a System 4 controller parameter

The System 4 display

Parameter name

P: Password 0

001= 1979 Cyc

Parameter number
All three digits are hexadecimal

Parameter value
? = value being changed
✓ = change saved

Blinking cursor
On left side of display: press arrows to change parameter number
On right side of display: press arrows to change parameter value

The System 4 controls

UP Arrow
Press to increase a value or a parameter number

Stop/Reset Button
Press to toggle the flashing cursor between left and right
Press and hold to save changes to a value

DOWN Arrow
Press to decrease a value or a parameter number

Press and hold arrows to cycle quickly



NOTE: The System 4 display uses hexadecimal numbers. Each digit has 16 possible values instead of 10. The display uses the ten numeric characters (0-9), plus six letters (A-F), which represent the values from 11 through 16. This means, for example, that you must press the UP arrow sixteen times to change a value from 0000 to 0010.

Icon key



How to set the controller to Parameter mode and access Service level parameters

Do This	Result
1 You are in Parameter mode. You can now change parameters.	P: Password 0 001= [xxx] Cyc
2 until 999 displays The Password parameter (999) screen displays.	P: Password S 999= 0010 #
3 The flashing cursor moves to the right (value) side of the display.	P: Password 0 999= 0000_#
4 Set the Service password value to 10.	P: Password 0 999= 0010?#

Do This

Result

5



P: Password S
999= 0010v#

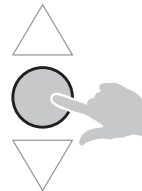
The Service password is saved

- **You must press and hold** the Stop/Reset button for five (5) seconds to save the change.

Do This

Result

6



P: Password S
999= 0010 #

The flashing cursor moves back to the left (parameter number) side.

You can now move to a parameter.

How to navigate to a parameter and change the value

Do This

Result

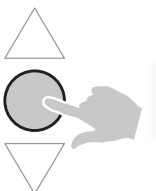
1



until parameter displays

P: InPut 4 211 S
544= 0 #

2



P: InPut 4 211 S
544= 0v#

The flashing cursor moves to the right (value) side of the display.

3



until new value displays

P: InPut 4 211 S
544= [x]v#

4



P: InPut 4 211 S
544= [x]v#

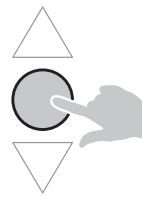
The new value is saved

- **You must press and hold** the Stop/Reset button for five (5) seconds to save the change.

Do This

Result

5



P: InPut 4 211 S
544= [x] #

The flashing cursor moves back to the left (parameter number) side.

You can now move to the next parameter, or return to run mode.

6



[Your door model]
[xxx] Cycles

Return to run mode.