

How to install the Rytec countdown clock

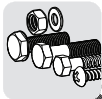
NOTICE

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

Before you begin

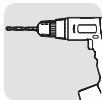
1 Make sure that you have all supplies and tools.

Supplies that you provide

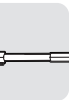


Mounting hardware for the mounting bracket

Tools you will need



Power drill and step drill bit (if additional hole needed in control box)



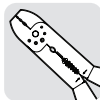
7/16" 3/8"



#2 Phillips



Precision screwdriver



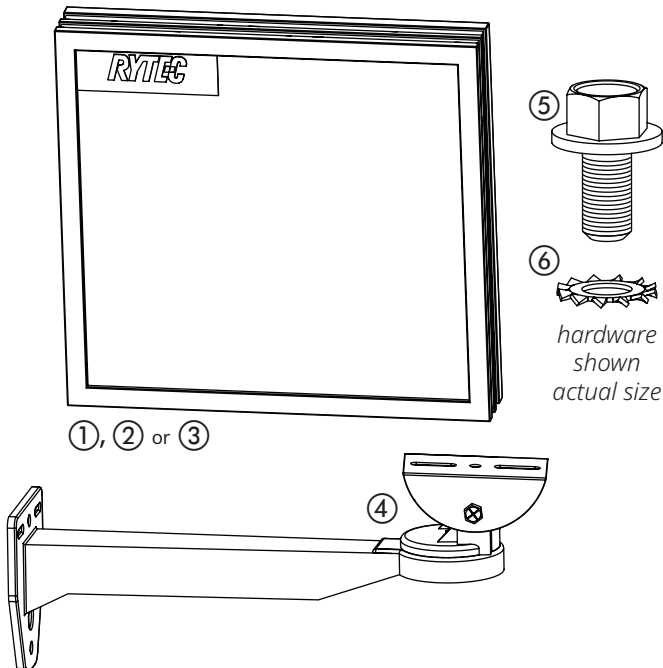
Wire tool



Cement drill (if needed to mount the bracket)

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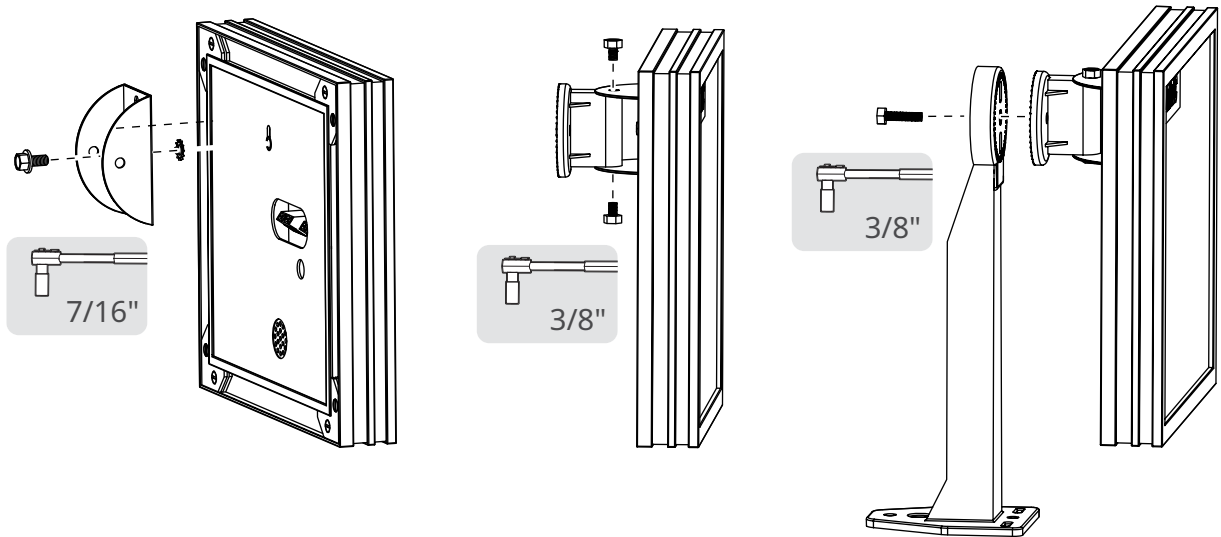
1



Kit No.	Description
1210693-0A	Countdown clock indoor, standard brightness
1210693-0B	Countdown clock indoor, high brightness
1210693-0C	Countdown clock outdoor, high brightness

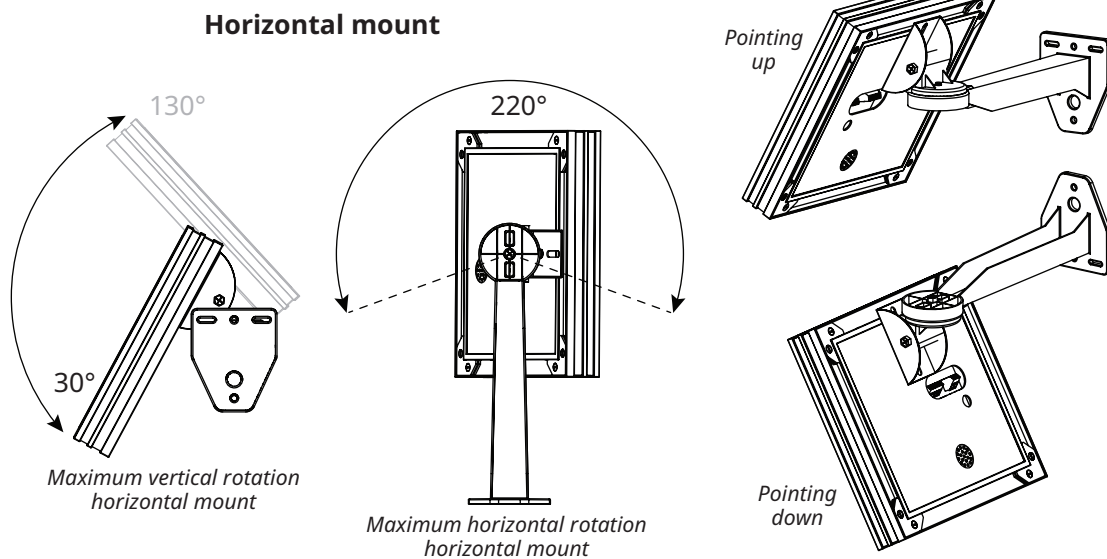
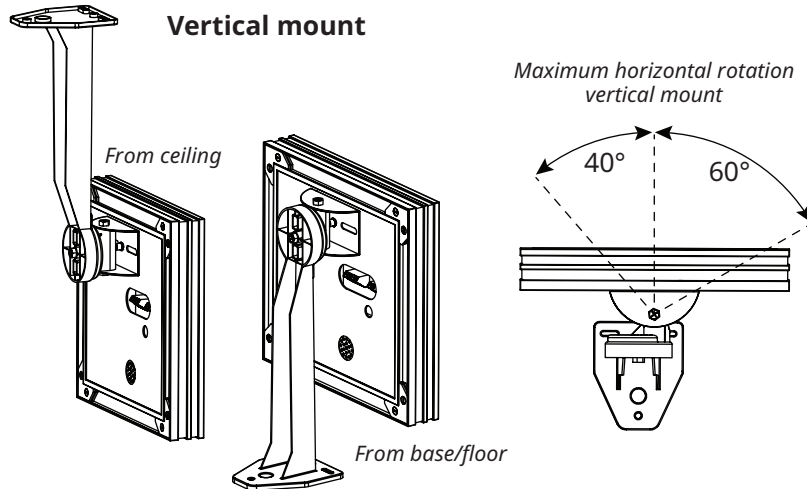
ID	Part No.	Description	Qty.
①	1210698-0A	Countdown clock indoor, standard brightness	1
②	1210698-0B	Countdown clock indoor, high brightness	1
③	1210698-0C	Countdown clock outdoor, high brightness	1
	R00142199	Six-conductor cable, 20 ft. (not shown)	1
④	1210692-0	Mounting bracket	1
⑤	5550299-0Z04	1/4-20 x 1/2 Flanged hex bolt	1
⑥	5550343-0	Washer	2

1

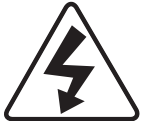


2

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



How to wire the Rytec countdown clock



⚠ WARNING

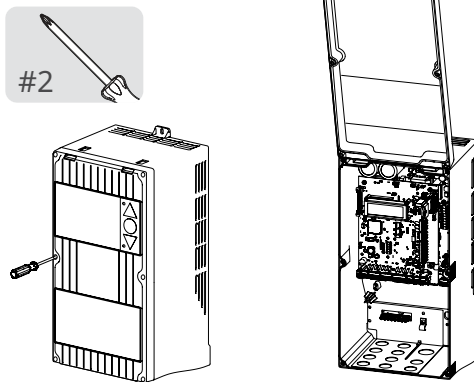
WARNING: Do not open the controller until the power disconnect is in the OFF position, a lockout/tagout is complete, and at least five (5) minutes have elapsed.

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

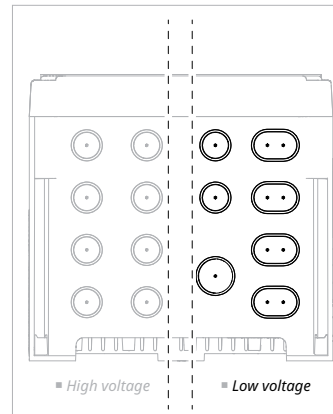
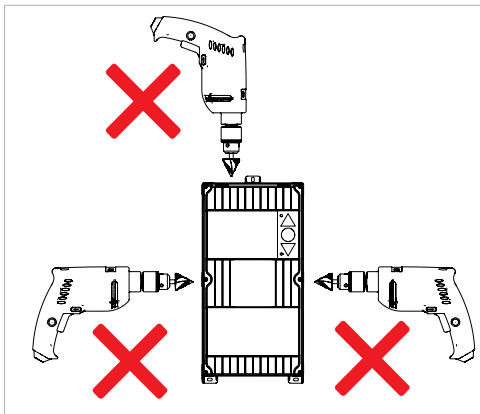
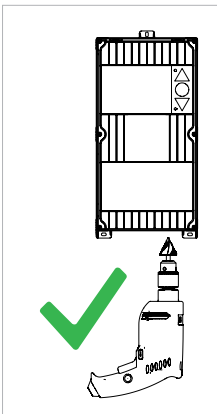


1 Open door to fully open position, **disconnect** power and **perform** lockout/tagout.

2 Loosen the six capture screws on the control box. **Flip open** the hinged cover panel.



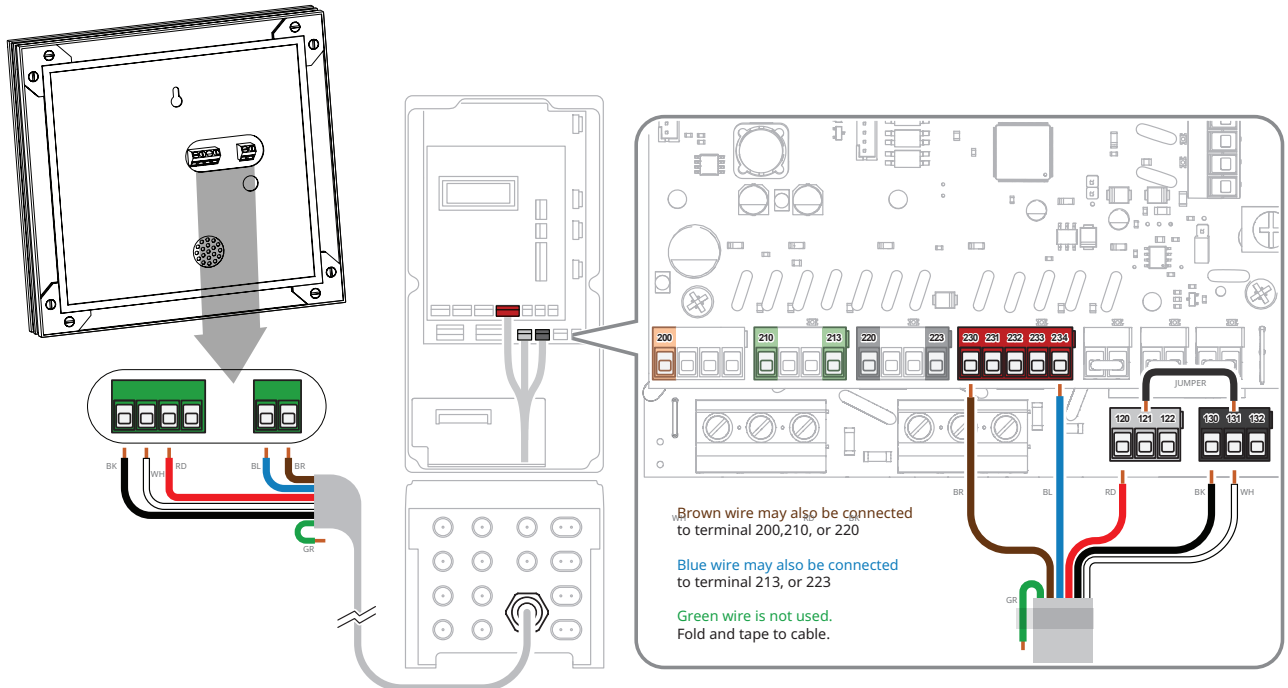
3 If necessary, **drill** a hole in the control box for the countdown clock cable.



NOTICE

- **The cable must enter through the bottom of the control box.** Drilling through the top or side of the control 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.

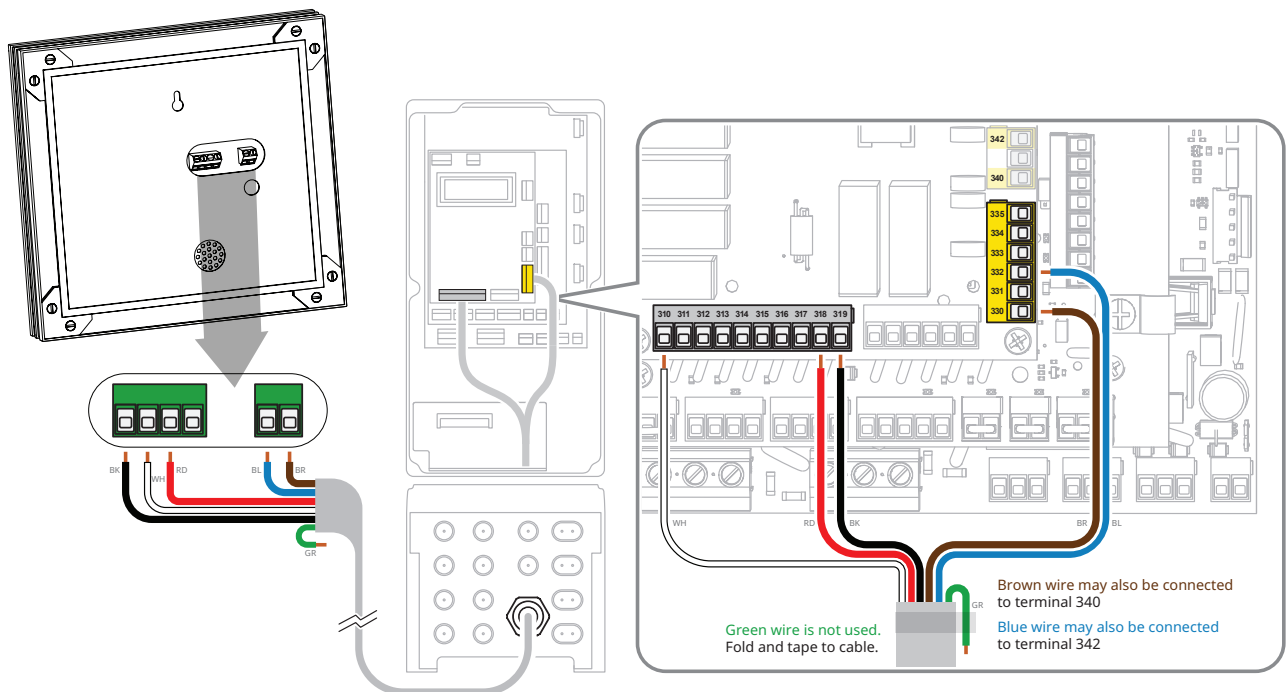
4 Connect the wiring to the controller (standard configuration).



NOTICE

- Maximum torque for all controller screws is 2.5 in-lb.

5 ALTERNATE Connect the wiring to the controller (with expansion board installed).



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

How to set the controller parameters for the countdown clock



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

Two parameters control the timing of the countdown clock:

P.010 (Auto Close Timer) controls how long the door stays open before the countdown begins.

The value must be set to 3 or higher.

P.025 (Delay to Close Timer) controls how long the countdown lasts. The value can be set from 0 (zero) to 20 (twenty) seconds.

These parameters must also be **checked** and, if necessary, **changed**:

Standard Configuration

Parameter Number	Value for countdown clock
544	0
545	0
654	0
655	0
684	0
685	0
694	0
695	0
710	12
711	1000.0
712	0.0
713	0.0
714	0
715	0 Inc
716	4
717	1
718	1
719	1
71A	0
71B	1
71C	0
720	12
721	1000.0
722	0.0
723	0.0
724	0
725	0
726	4
727	0
728	0
729	0
72A	1
72B	0
72C	0

Extension Board Installed

Parameter Number	Value for countdown clock
544	0
545	0
654	0
655	0
684	0
685	0
694	0
695	0
760	12
761	1000.0
762	0.0
763	0.0
764	0
765	0 Inc
766	4
767	1
768	1
769	1
76A	0
76B	1
76C	0
770	12
771	1000.0
772	0.0
773	0.0
774	0
775	0
776	4
777	0
778	0
779	0
77A	1
77B	0
77C	0

How to set a controller parameter

The Controller Display

Parameter name

P: Password 0

001= 1979 0xc

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 Controller Controls

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

UP Arrow
Press to increase a value or a parameter number

DOWN Arrow
Press to decrease a value or a parameter number

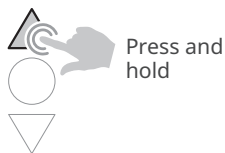
Press and hold arrows to cycle quickly



NOTE: The 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.

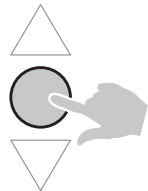
Icon key



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

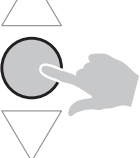
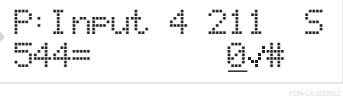
Do This	Result
1 5 sec. You are in Parameter mode. You can now change parameters.	
2 until 999 displays The Password parameter (999) screen displays.	
3 The flashing cursor moves to the right (value) side of the display.	
4 16x Set the Service password value to 10.	

Do This	Result
5  5 sec.	
The Service password is saved You must press and hold the Stop/Reset button for five (5) seconds to save the change.	

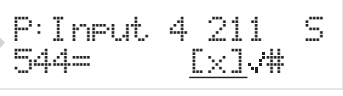
Do This	Result
6 	
The flashing cursor moves back to the left (parameter number) side. You can now move to a parameter.	

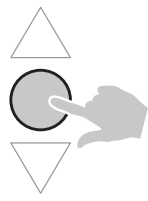
How to navigate to a parameter and change the value

Do This	Result
1  until parameter displays	

Do This	Result
2 	
The flashing cursor moves to the right (value) side of the display.	

Do This	Result
3  until new value displays	

Do This	Result
4  5 sec.	
The new value is saved You must press and hold the Stop/Reset button for five (5) seconds to save the change.	

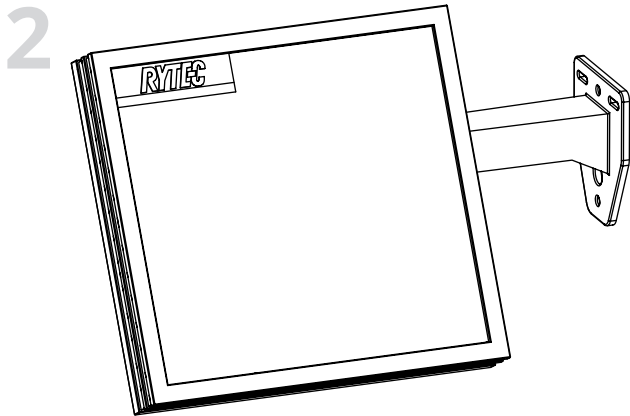
Do This	Result
5 	
The flashing cursor moves back to the left (parameter number) side.	

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

Do This	Result
6  5 sec.	
Return to run mode.	

How to complete the installation

1 Cycle the door open and closed several times.



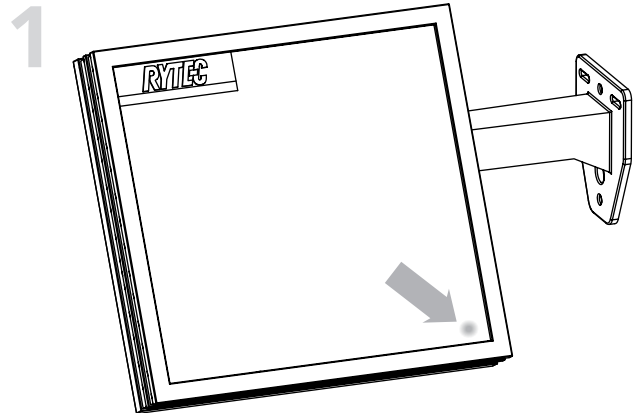
The clock will not display the first time the door closes. The clock saves the new parameter settings during the first cycle.

Beginning with the second cycle, the clock will begin normal operation.

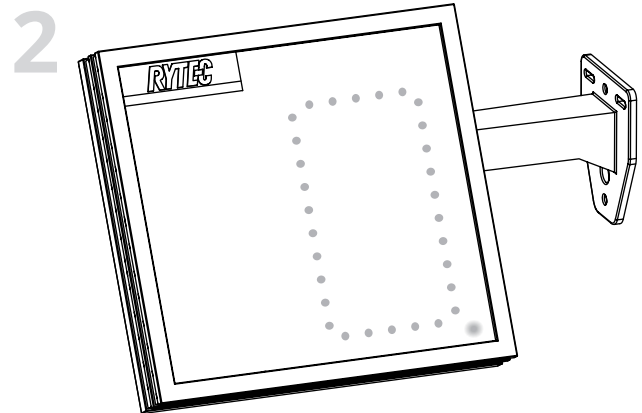
3 Any time power is disconnected or parameters are entered or changed, the clock will not display during the first cycle. The clock saves the new parameter settings during this cycle.

Beginning with the second cycle, the clock will begin normal operation.

How to monitor operation of the countdown clock



When door is closed, check for red LED in bottom lower corner of clock.



When the door opens, it stays open for time set by parameter P.010 (Auto Close Timer).

Then the clock counts down time set by parameter P.025 (Delay to Close Timer).

Then the door closes. While it closes, the clock blinks "0" (zero).