RollSeal SC-325 & SC-650 Door Assembly Replacement Instructions

RollSeal
1733 County Road 68
Bremen, Alabama 35033
256-287-7000

Overview:

There have been internal changes made to the SC-325 & SC-650 Controllers. If it is required that a door assembly on an existing SC-325 or SC-650 Controller be replaced, there will need to be a few modifications done during the replacement installation. The majority of the door assembly will be configured as it is in the current controller and the modifications are listed below.

Disassembling the Old Door Assembly:

To begin, it is recommended that the user go through and take note of the setting on the controller to allow the door to function as it has previously functioned. Refer to the 4801-5156 controller manual for more information on how to access these settings. There will be several new program parameters that can be seen on the label of the new door assembly. These new settings will be listed under “Program Parameters” on the control label. There will also be a white label sent with the new door assembly that will allow the user to take note of the important parameters that will need to be set in a later step. Once the parameters are noted on the provided 4501-6106 label as shown in Figure 1, adhere it to the left side of the controller for reference. Ensure that the power toggle switch on the side of the controller has been positioned to the off location. With the controller powered down, loosen the two screws on the side and open the door of the controller. Before proceeding, take note of how the control board is wired (it is recommended to take a picture for reference as shown in Figure 2). Once the wiring position is noted, remove the black terminals on the bottom of the control board by pulling up on them until they slide off the board mounted headers. There will be two white and two red connectors that will need to be removed as well. Once all the connectors have be removed, cut the zip-tie located below the control board. Refer to Figure 3.

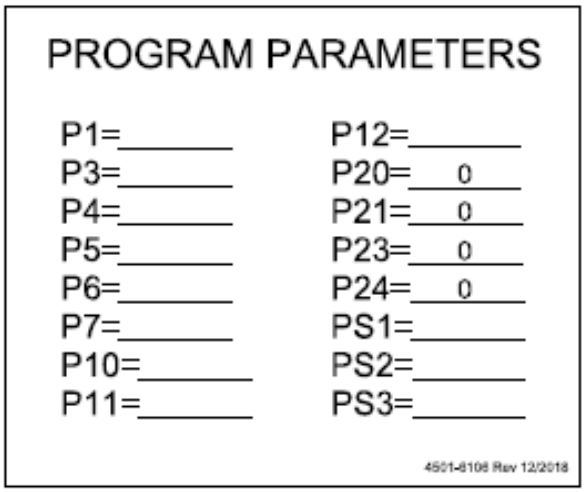

Figure 1: Program Parameters

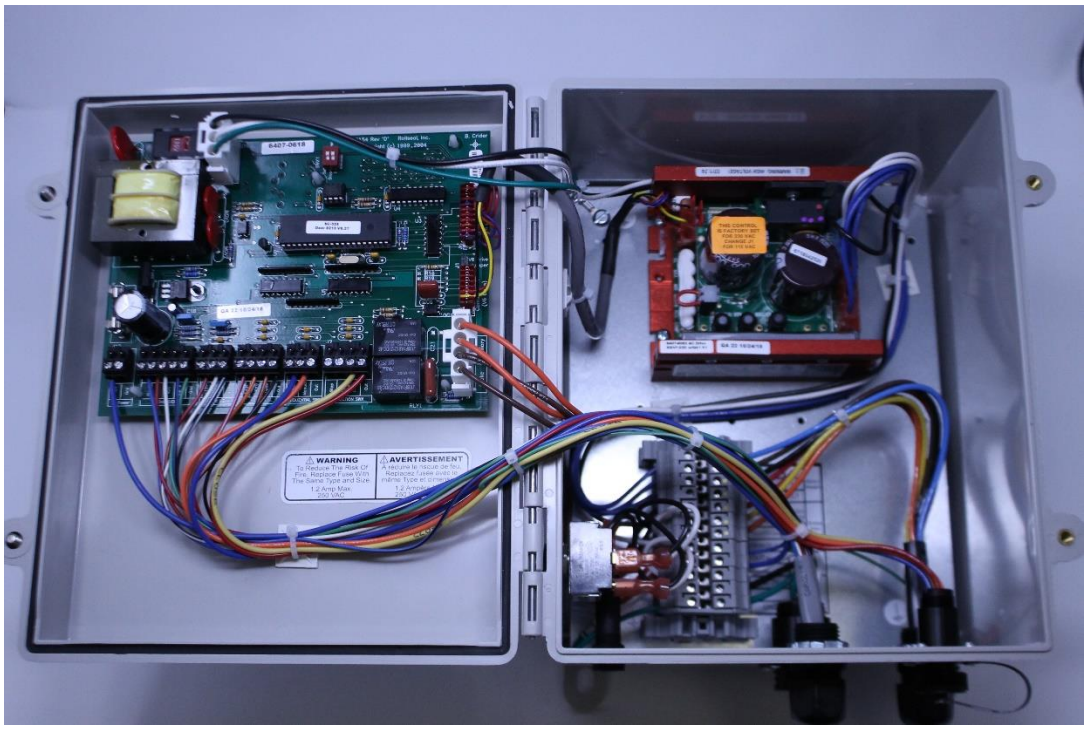

Figure 2: Old Door Assembly

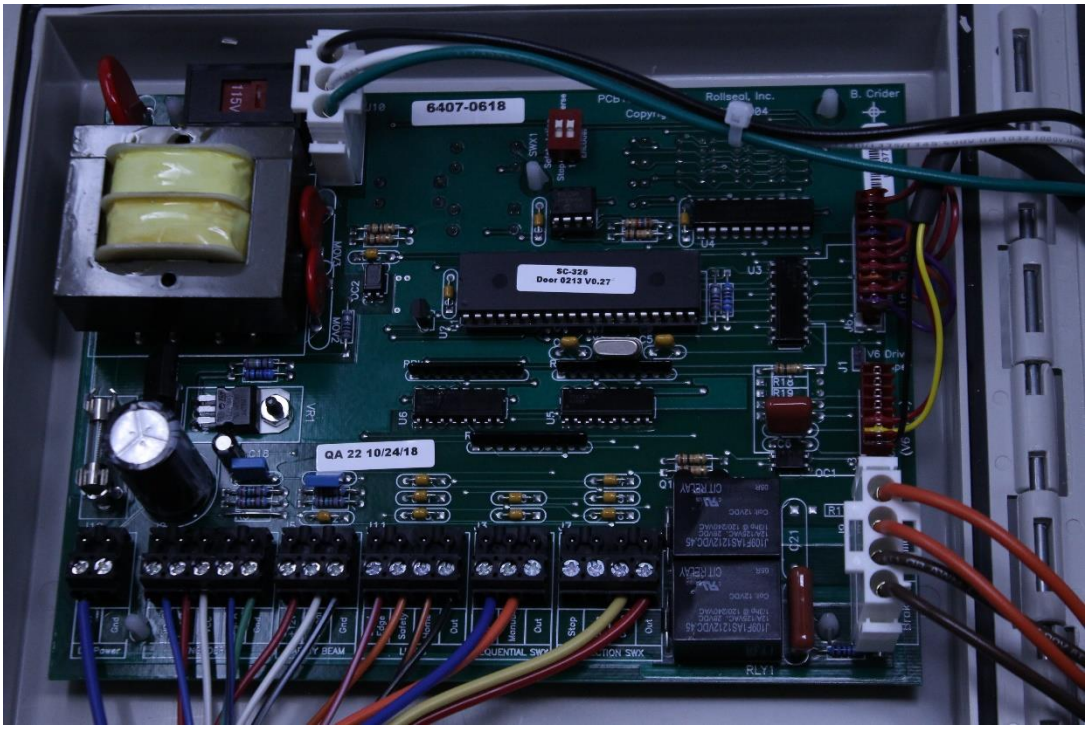

Figure 3: Harnesses to Detach

Replacing the Door Assembly:

Once all the harnesses have been disconnected, proceed by pulling the hinge pin upward to remove the door assembly as shown in Figure 4. Reinstall the new door assembly in the same manner that the old door assembly was removed. Ensure that the hinge pin is pushed all the way in and is flush at the top.

Figure 4: Removing Door Assembly

Replacing the KB Drive Harness:

In order to configure the new door assembly, the harness connecting the Control Board to the KB Drive must be replaced. Remove the harness called out in Figure 5 and replace it with the harness as shown in Figure 6. This harness will be sent in the box with the new door assembly and it is required that the harness be installed as shown in Figure 6.

Figure 5: Harness to Remove

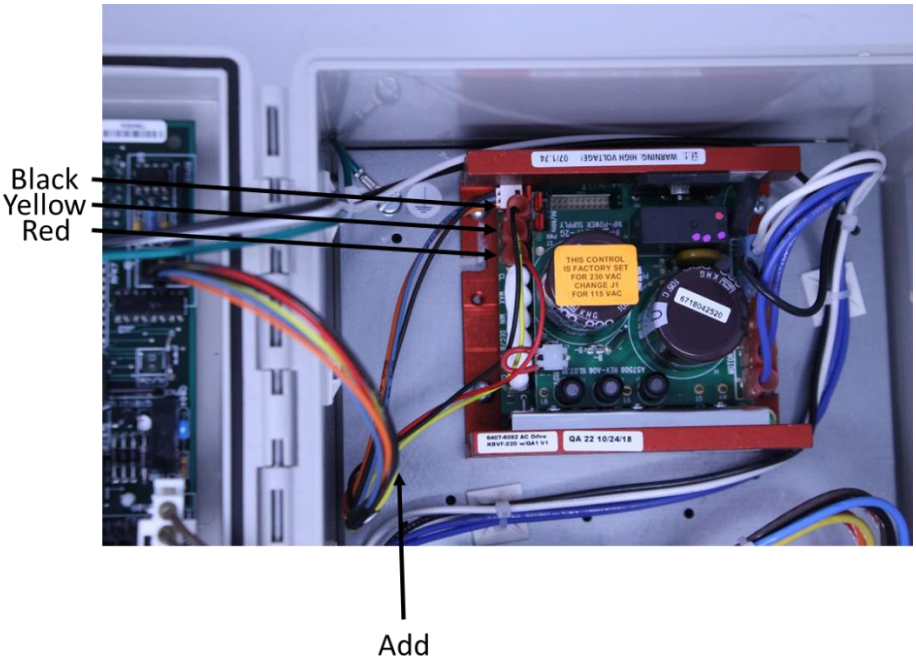

Figure 6: Harness to Add

Wiring the New Door Assembly:

Once the new door assembly is mounted and the new harness has been installed, the control board can be rewired. Referring to the previously taken picture, place the black wire terminals in their corresponding board location based on the title designation listed on the board. Connect the two white connectors as they were on the old door assembly and connect the newly installed harness to the board in the J8 location. Figure 7 and Figure 8 show what the new door assembly will look like after installation.

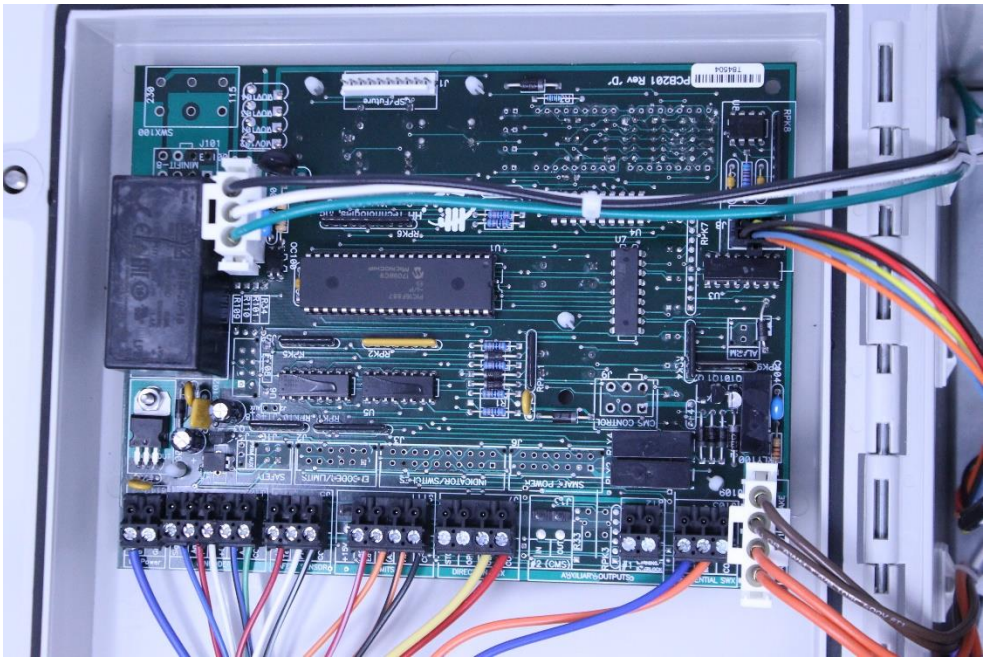
Figure 7: Door Assembly Replacement

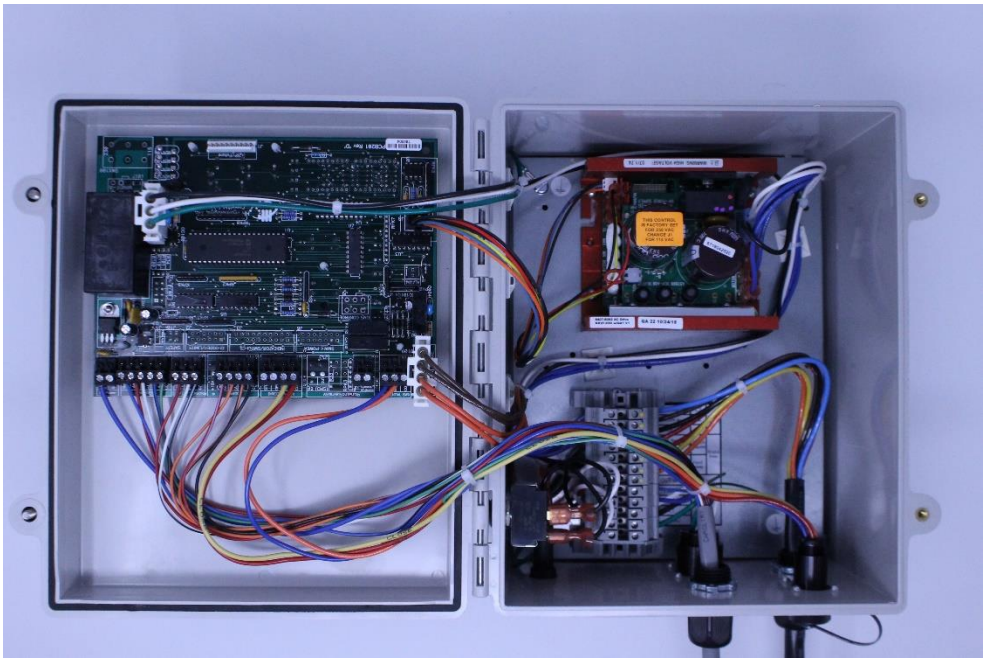

Figure 8: New Door Assembly Installed

Controller Setup:

Once the replacement installation has been concluded, the controller will need to be setup to match the settings that were noted in a previous step. Refer to the 4801-5156 Controller Manual for more information involving setup of the controller. This manual can be downloaded from www.rollseal.net/. The notes that were taken on the provided white label should all be the same during the setup. There will be several new parameters added and they should be set as designated on the pre-printed label.

As was previously mentioned, there have been several program parameters added to this new door assembly and there will be values printed on these parameters that will allow for easy setup. There has been more capability added to the “P4” setting where the Warning Output can now be set to sense a fully open/fully closed status with P4=4 and P4=5 respectively. Refer to Figure 9 for more information.

PROGRAM PARAMETERS		
P1 - Close Time Delay (Seconds) **P3** - Deceleration Range **P4** – Warning Output Function 0 – Door Movement or Door about to Close 1 - Sequential Interlock 2 - Passive Interlock 3 - Freezer Mode (No Interlock) 4 - Door Open Indication 5 - Door Closed Indication **P5** – CMS On-Time **P6** – CMS Off-Time		**P7** - Refresh Door Limits **P10** - Service Cycle Reset 0 - No 1 - Yes **P11** - Service Reminder (Cycles x 100) **P12** - Input Status **P20** - Open Input Function **P21** - Input Switch Response **P23** - Encoder Operation **P24** - CMS Output Function **PS1** - Setup Door Limits **PS2** - Set Open Limit **PS3** - Set Close Limit

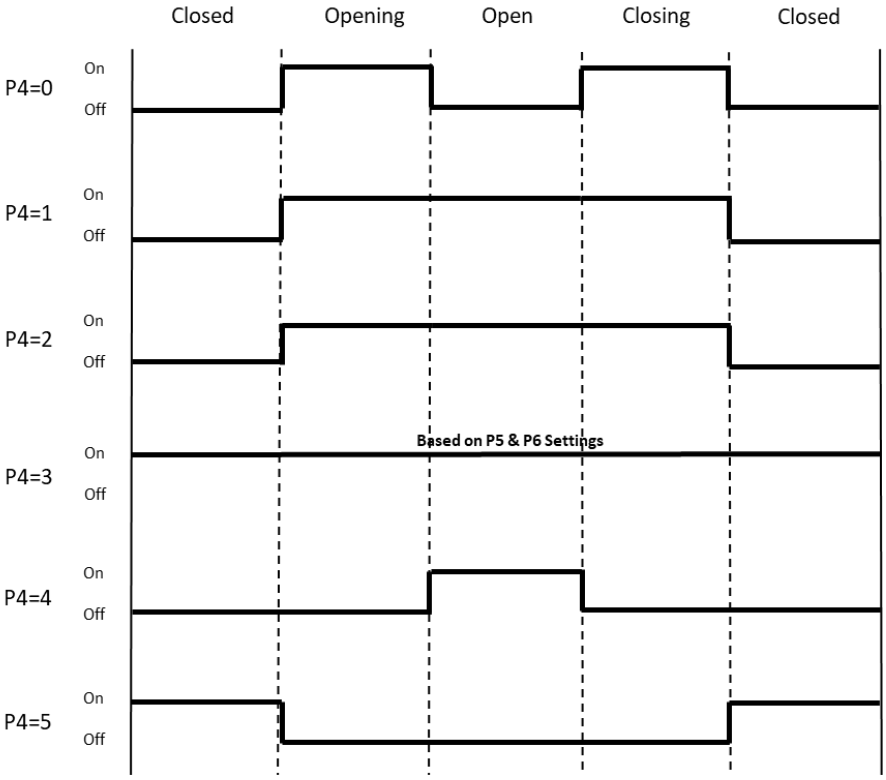

Figure 9: P4 Aux Relay Status