

Summary	Changing the Phase Jumper on the System 4 Control Board				
Products Affected	All Doors with the System 4 Controller				
Key Word Tags	Phasing, Jumper, Sys4, System 4				
Tools/Equipment (If Required)	Phillips Screw Driver, Flat Blade Screw Driver				
Parts/Materials (If Required)	2" 16ga Jumper Wire				
Related Media					
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Please read the Entire Bulletin Before Beginning This Procedure

CAUTION

The door main electrical supply must be locked out and tagged out before beginning this procedure. The control board contains capacitors that store electrical energy and you must allow 20 minutes for the capacitors to discharge before beginning this procedure.

The System 4 control board can be supplied single or three phase voltages ranging from 185 to 500 volts AC. There's a phase jumper on the main control board that was installed at Rytec before shipping. If the supply phase differs from the approval drawing submitted from the customer the phase jumper must be changed.

NOTE: Typically you can determine single or three phase voltage by the number of wires provided from the electrical supply or disconnect. Three wires and a ground (4 total) represents 3 phase electrical supply. Two wires and a ground (3 total) represent single phase electrical supply.

The phase jumper is located on the bottom printed circuit board. To access the bottom printed circuit board you'll have to remove the top printed circuit board. In some cases there may be two printed circuit boards above the bottom printed circuit board that will need to be removed.

With the power off remove the 3 cables plugged into the top board. Remove the green & yellow ground wire. (See Figures 1&2).

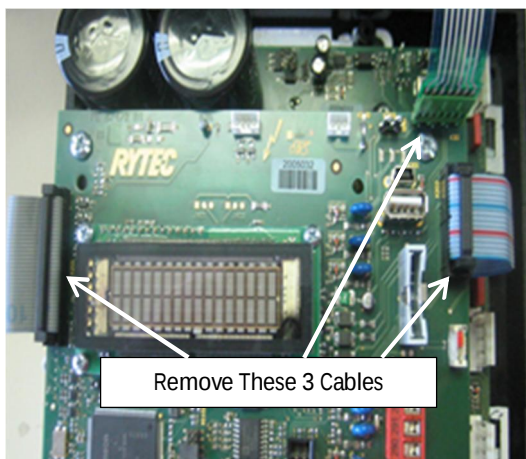


Figure 1

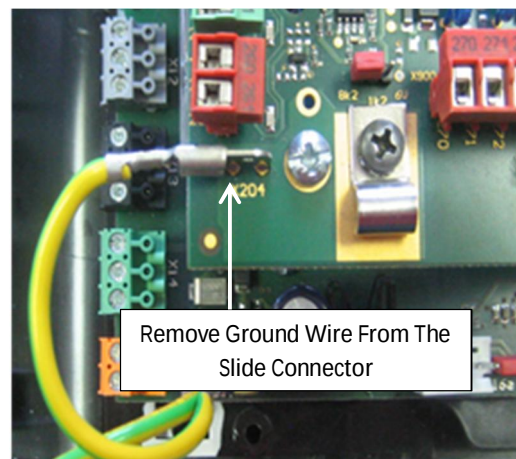


Figure 2

Remove the three screws and the hex stud in each corner of the board. (See figure 3).



Figure 3

NOTE: Some System 4 control panels may have two (2) printed boards above the main control board. The additional board is removed in the same process. There will be threaded standoff's separating the printed circuit boards.

Remove the top printed circuit board exposing the main circuit board. (See Figure 4).

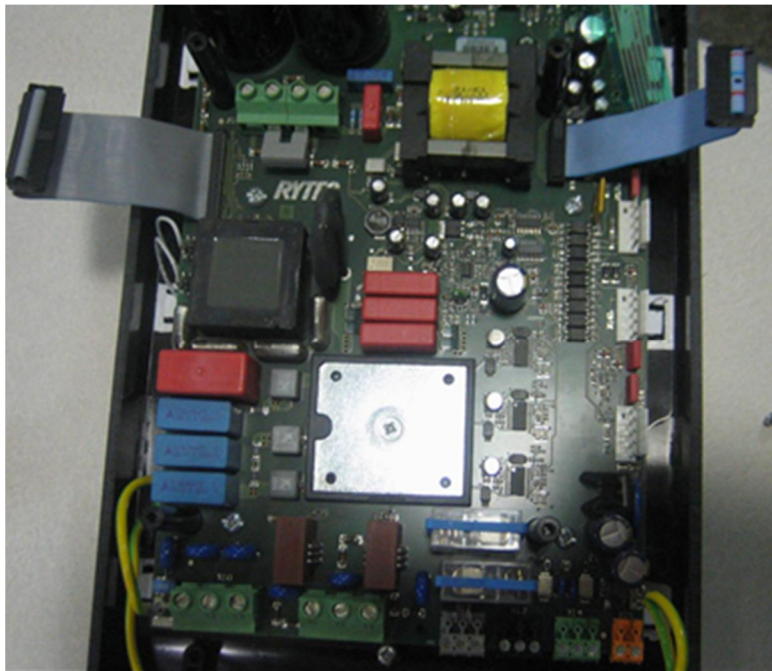


Figure 4

The phase jumper is located just beneath the two (2) black cans (capacitors). It will either be 2 “clips” or 1 jumper wire. (See figure 5).

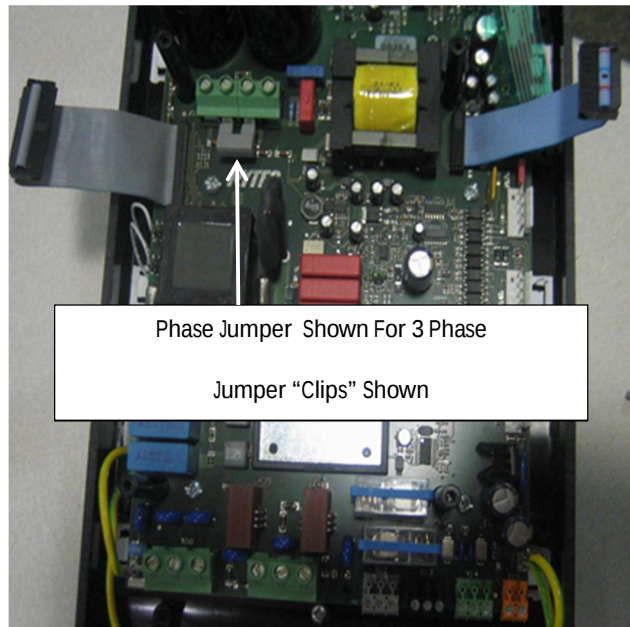


Figure 5

The terminal block contains either two (2) of the grey “clip” jumpers or one (1) jumper wire. To configure the phase jumper for single phase remove the phase jumpers and install as shown in figure 6. *NOTE: If you have the single jumper wire, you will need to add a second jumper to achieve the correct configuration.*

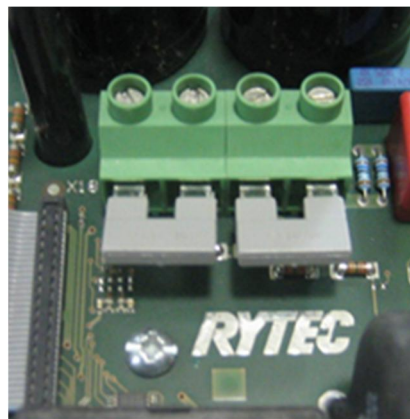


Figure 6

To configure the control from single phase to three phase move the jumpers to the position in figure 5.

Reassemble the control panel placing the top board into position insert screws and attach the cables and ground wire. Install the cover of the enclosure before turning on the electrical supply.

If you have any questions contact Rytec Technical Support at 1-800-628-1909.