

# BP2100G1 3x16A Conversion Step-by-Step

## **About these instructions:**

These instructions are for converting an “as manufactured” system to work with 3x16A service. They do not explain how to convert a system which has already been converted in some other way.

## **Before you begin:**

There are four areas of clustered connectors, numbered 1, 2, 3, and 4.

On these diagrams, area 1 is shaded in blue, area 2 is shaded in yellow, area 3 is shaded in orange, and area 4 is shaded in green.

In each area, there are several connectors. All of the connectors within one area are inter-connected. So, for example, if you need to connect to area 1, it doesn't matter whether you connect to J51, J52, or J98. (While the wiring diagram shows wires going to J51 and J52, on the actual board the wires might go to J51 and J98 or to J52 and J98 instead.)

The top drawing shows just the terminal block area, but shows the set of dashed lines the same way they are shown on the main wiring diagram for the system. The main wiring diagram shows 1x32A wiring. The bottom drawing is the same as the 3x16A drawing from the second part of the wiring diagram (except that it has color, which the wiring diagram on the box lid cannot have).

The wires that are shown in dashes near the terminal block in each drawing are the only wires on the board that change between 1x32A and 3x16A wiring. (There may be other wires on other parts of the wiring diagram that are also shown in dashes, but those change only under other circumstances, for example when connecting a blower to J14.)

The DIP switches which are shown next to each drawing are the only DIP switches which need to change between 1x32A and 3x16A wiring.

Each diagram shows the input wiring the same way it's shown on the box lid wiring diagram, except here the wires are shown in color while on the box lid they can only be shown in black and white (and so on the box lid there's only text explaining the colors).

## **The conversion process:**

Completely disconnect and remove the two wires which go from area 1 to area 3.

Take the wire that connects to J60 at one end and area 3 at the other end. Disconnect it from area 3, but leave it connected to J60. Take the end which used to connect to area 3, and connect it to area 4. (Thus after you're done, you should have a wire going from J60 to area 4.)

Take the wire that connects to J41 at one end and area 3 at the other end. Disconnect it from area 3, but leave it connected to J41. Take the end which used to connect to area 3, and connect it to area 4. (Thus after you're done, you should have a wire going from J41 to area 4.)

Change DIP switch A2 to the OFF position.

Change DIP switch A5 to the OFF position.

Leave all other DIP switches as shown on the DIP switch chart on the second part of the wiring diagram. Connect input power as shown, following the color coding.

