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Subject: UB20 & UB30 Voltage Conversion Instructions

Here are the instructions for converting a UB20 or a UB30, for either 115 VAC or 240 VAC operation per your request.

INSTRUCTIONS

Please see the wiring diagram included at the end of the procedures below.

1. Loosen the compression nut on the power cord at the junction box.
2. Turn UB20 upside-down.
3. Remove lid from junction box.
4. Loosen terminals 9, 12, & 24 on terminal strip.
5. Remove the power cord wire connections from the three terminals above.
6. Remove power cord from junction box.
7. Inspect new power cord. Ensure wire ends on power cord have been terminated with ferrules.
Note: If wire ends have not been terminated with ferrules it is possible to use the power cord without them. Wire ends should be twisted together to ensure the copper wire strands do not bridge connections with neighboring terminals, when installed into the terminal block.
8. Insert wire of power cord through the compression fitting and conduit fitting on the junction box.
9. Connect the wire leads from the power cord as indicated below:

Power Cord Wires		Terminal Strip Position
Euro Power Cord	USA Power Cord	
Green / Yellow	Green	#12
Brown	Black	#24
Blue	White	#9



10a. Set jumper configuration as indicated below:

115 VAC OPERATION, (conversion from 240 VAC to 115 VAC operation).

4. Move Jumper #4 to terminals 5 & 6. Jumper #4 becomes Jumper #2
5. Move Jumper #3 to terminals 3 & 4.
6. Leave Jumper #1 at terminals 7 & 8

Note: Three (3) jumpers, J1, J2, & J3, are required to configure the UB20 & UB30 blowers for 115 VAC operation. Only two (2) jumpers, J1 and J4 are required to configure the UB20 & UB30 blowers for 240 VAC operation. There is possibility that a blower configured for 240 VAC may be short the J3 jumper to complete the conversion for 240 VAC to 115 VAC. Please check to ensure there are three (3) jumper on the terminal block for this conversion as discussed above. The part number for replacement jumpers is ESI PN EZ 1733169.

Note: Ensure jumpers are secure in terminal housing. It is easy to install the jumpers such that the jumper is below the wire clamping mechanism, cause the electrical connection through the jumper to float.

10b. Set jumper configuration as indicated below:

240 VAC OPERATION, (conversion from 115 VAC to 240 VAC operation).

1. Move Jumper #3 to terminals 1 & 2
2. Move Jumper #2 to terminals 4 & 5. Jumper #2 becomes Jumper #4
3. Leave Jumper #1 at terminals 7 & 8

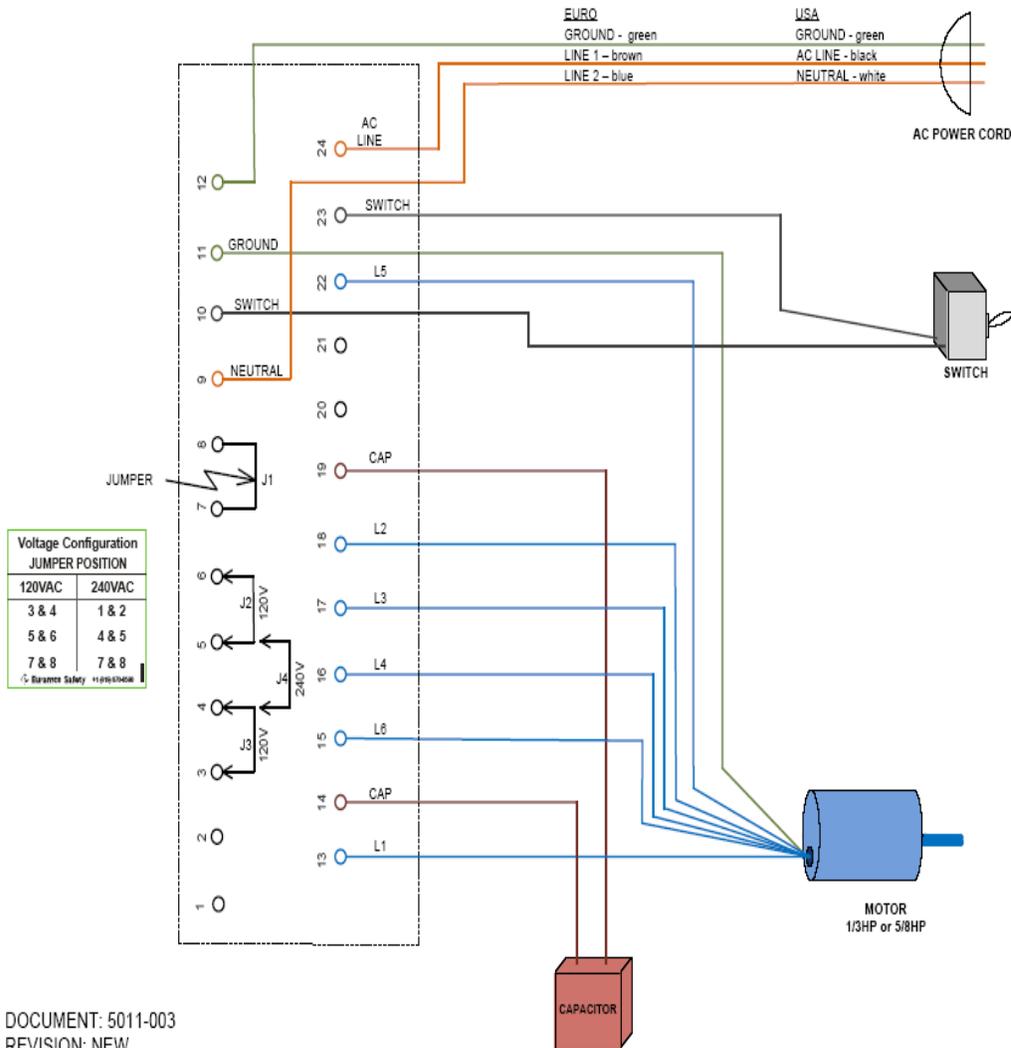
Note: Jumper #3 is not required to be installed on terminals 1 & 2. Terminals 1 & 2 are a non-functioning storage location for Jumper #3, to be available for conversion back to 115 VAC operation at a later date.

Note: Ensure jumpers are secure in terminal housing. It is easy to install the jumpers such that the jumper is below the wire clamping mechanism, cause the electrical connection through the jumper to float.

11. Ensure sheath on power cord is through the conduit fitting.
12. Tighten compression nut onto power cord.
13. Install the lid to the junction box. Ensure the lid gasket did not fall out of the gasket grove in the lid. Ensure the starting capacitor is not creating any binding problems.
15. Plug power cord into an appropriate power source to ensure proper operation.

WIRING DIAGRAM

WONDER MOTOR INTERFACE BOARD
 PART NUMBER HORSEPOWER
 EM-F.33-115/230VSS 1/3 HP
 EM-F.62-115/230S 5/8 HP



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