

## Wiring the Clutch transformer 09UB100A16

When replacing the original 09U002EBR clutch transformer with the replacement 09UB100A16 there will need to be some changes in the wiring.

The following steps should be followed;

- 1.) Remove power from the machine, tag and lock it out.
- 2.) Determine the machine control voltage. (Not incoming power)
- 3.) If the machine has a 120 volt control system, i.e. 120 volt water valves, follow instructions A.
- 4.) If the machine has a 240 volt control system, i.e. 240 volt water valves, follow instructions B.

### Instructions A for 120 volt controls

- 1.) Remove the new transformer from the box, along with the two (2) metal jumpers.
- 2.) Connect one (1) jumper from H1 to H3 of the transformer. Connect the other jumper from H2 to H4 of the transformer
- 3.) Remove the 2 screws retaining the old transformer to the chassis and remove it, do not disconnect any wires at this time.
- 4.) Locate the blue / yellow and black / red wires and disconnect them from the wire connected to the machine.
- 5.) Connect this single wire to H1 of the new transformer.
- 6.) Locate the blue and black wires, disconnect them from the wire connected to the machine.
- 7.) Connect the single wire to H4 of the new transformer. This should complete the wiring of the transformer primary wiring
- 8.) To wire the secondary connect the wire attached to the old transformer red wire is now connected to X3 of the new transformer.
- 9.) The remaining wire connected to the machine will either be yellow / red or solid yellow. Connect this to X2 of the new transformer. This completes wiring of the secondary of the transformer.
- 10.) Place the new transformer into the space where the old one was placed, new holes will need to be drilled. Using self tapping screws attach the transformer to the base.

### Instructions B for 240 volt controls

- 1.) Remove the new transformer from the box, along with the two (2) metal jumpers.
- 2.) Connect one (1) jumper from H2 to H3 of the transformer.
- 3.) Remove the 2 screws retaining the old transformer to the chassis and remove it, do not disconnect any wires at this time.
- 4.) Locate the blue / yellow wire disconnect it from the wire connected to the machine.
- 5.) Connect this single wire to H1 of the new transformer.
- 6.) Locate the blue and black / red wires, and remove them with the old transformer.
- 7.) Connect the wire connected to the black wire to H4 of the new transformer. This should complete the wiring of the transformer primary wiring
- 8.) To wire the secondary connect the wire attached to the old transformer red wire is now connected to X3 of the new transformer.
- 9.) The remaining wire connected to the machine will either be yellow / red or solid yellow. Connect this to X2 of the new transformer. This completes wiring of the secondary of the transformer.
- 10.) Place the new transformer into the space where the old one was placed, new holes will need to be drilled. Using self tapping screws attach the transformer to the base.

See attached drawings of the new transformer.

### Wiring of 09UB100A16 clutch transformer

