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## 9.3 Control Panel Small Components Replacement

### 9.3.1 Vacuum Pump Motor Breaker Replacement

#### Safety



Use lockout / tagout procedures prior to starting work.

#### 9.3.1.1 Removing the Vacuum Pump Motor Breaker

- **See Figure 9-2, 9-4, & 9-8.**
  1. Turn OFF power to the VST Control Panel at the Power Switch located on the front of the VST Control Panel (**See Figure 9-2**). (The power, ground, and neutral will be completely disconnected from the GREEN MACHINE).
  2. Follow lockout & tagout procedures prior to starting work.
  3. Unlock the metal clasps on the right-hand side of the Control Panel and open the Control Panel door.
  4. Find the Vacuum Pump motor breaker (**See Figure 9-4, item #22**) and note the wire numbers and locations. **See Figure 9-8.**
  5. Using a screwdriver, loosen the two screws on the top and bottom of the breaker. Remove the two wires.
  6. Pull up on the small black release mechanism on the bottom side of the breaker and rotate the breaker out of the Control Panel.



Figure 9-8: Vacuum Pump BRK2



### 9.3.1.2 Replacing the Vacuum Pump Motor Breaker

See Figure 9-8.

1. Install the new breaker, hooking the top of the breaker on first and then pushing the bottom of the breaker down into place.
2. Using a screwdriver, reinstall the two wires.
3. Be sure the orange switch on the breaker is in the UP position. **See Figure 9-8. NOTE: The small window below the switch should be RED. If the window is GREEN, flip the switch so that the window is RED.**
4. Close the Control Panel door and lock the 2 metal clasps on the right-hand side of the Control Panel.
5. Remove locks and tags from lockout tagout.
6. Turn the Power Switch to the ON position.

### 9.3.2 Vacuum Pump Motor Solid-State Relay Replacement

Safety



Use lockout / tagout procedures prior to starting work.

#### 9.3.2.1 Removing the Solid State Relay

- **See Figures 9-2, 9-4, & 9-9.**
  1. Turn OFF power to the VST Control Panel at the Power Switch located on the front of the VST Control Panel (**See Figure 9-2**). (The power, ground, and neutral will be completely disconnected from the GREEN MACHINE).
  2. Follow lockout & tagout procedures prior to starting work.
  3. Unlock the metal clasps on the right-hand side of the Control Panel and open the Control Panel door.
  4. Find the Vacuum Pump solid-state relay (see **Figure 9-4, item #21**) and note the wire numbers and locations. **See Figure 9-9.**
  5. Using a screwdriver, remove the four wires. **See Figure 9-9.**
  6. Remove the top screw and loosen the bottom screw securing the solid-state relay to the Control Panel. The solid-state relay can now be removed by sliding up.



Figure 9-9: Vacuum Pump Solid State Relay