

## 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.



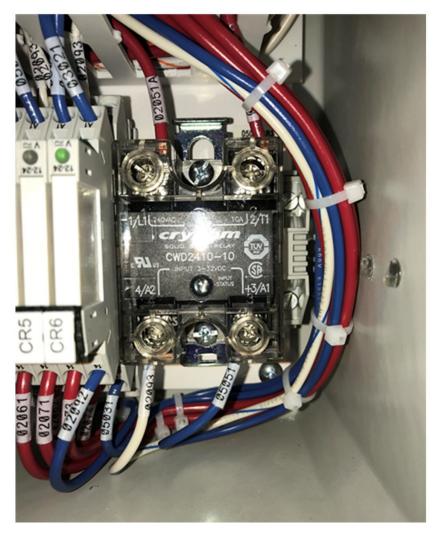


Figure 9-9: Vacuum Pump Solid State Relay