Puregas, LLC

PVDW33 Interface Kit
P08033W Cycle Module

Installation

1. Introduction

This guide provides direction for the installation of the PUREGAS PVDW33 Interface Kit. It will cover the procedures for installing a new interface kit as well as uninstalling the existing interface board and installing the upgraded interface kit into PUREGAS P10/15000DCO and P20/30000D Air Dryers.

This guide will be used during the installation of the Puregas P011990 Kit.

Troubleshooting and maintenance procedures go beyond the scope of this guide and will not be covered.

2. Before You Begin

- Read through this guide entirely to familiarize yourself with the components and procedures.

- Verify all Included Contents (Section 4).

3. Required Tools

- Medium size flat head screwdriver
- Medium sized Phillips head screwdriver
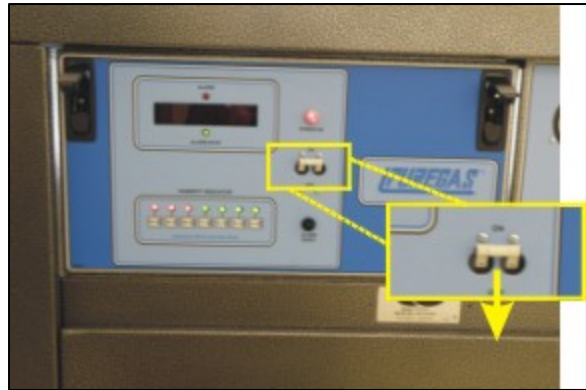- Small size flat head screwdriver
- Cutters or Snips

4. Included Contents

(1) PVDW33 Interface Board   (1) Interface Cable
(1) DB9 to DB9 Cable 25'   (2) Reset Cable
(1) Danger Decal   (4) Spacer 3/8"
(2) Spacer 9/16"   (1) Spacer Mounting
(10) Ty-raps   (4) Clear Connector
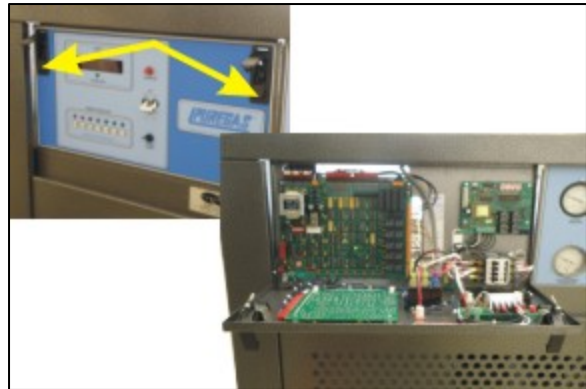(8) #6-32 Kep Nuts   (4) #6-32 X ¼" screws
(2) #6-32 X ½" screws

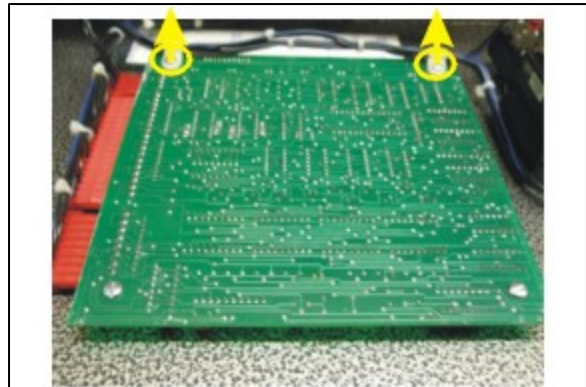## 5. New Installation for a P20/30000D

1. Power the dryer OFF.

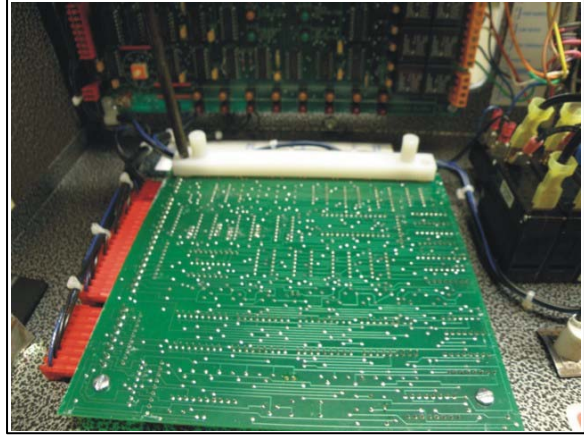2. Release the latches and lower the front panel.

3. Remove the two screws holding the plastic clamps on the display board.

4. Mount the plastic spacers on the two inside holes of the white plastic mounting bracket using the #6-32 X ¼" screws.
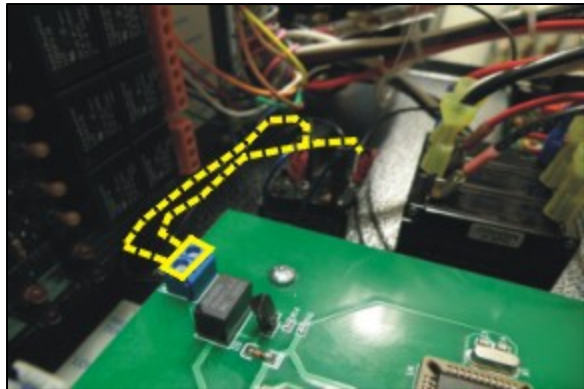
5. Mount the plastic bracket assembly on the two plastic clamps using two #6-32 X ½" screws.
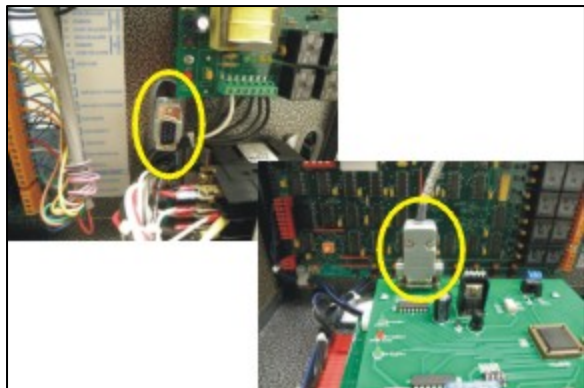

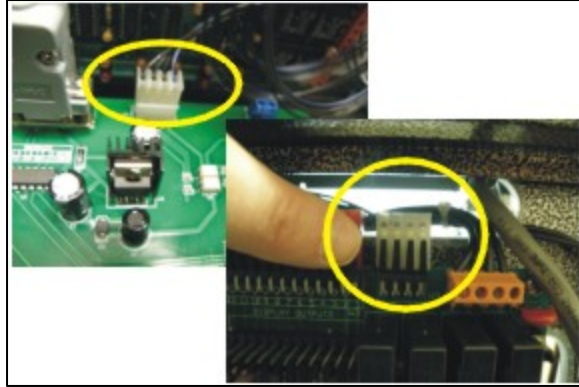6. Mount the PVDW33 board to the bracket using two #6-32 X 1/4" screws.

7. Remove the two wires from the reset switch on the air dryer. Locate the wires E and F. Route wires E and F(supplied) from P2 on PVDW33 board to the dryer reset switch. Reinstall the two original wires from the reset switch onto the terminals of wires E and F.
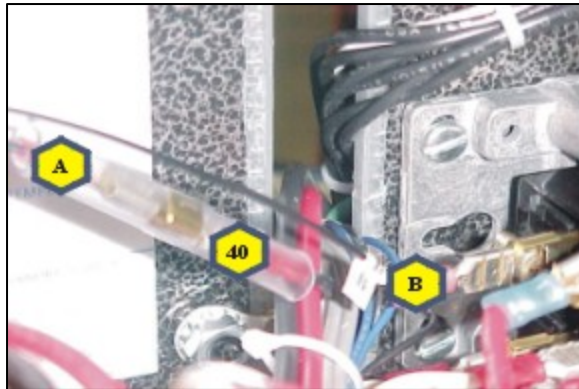

8. Locate the 25' DB9 cable and the cable markers. Label both sides of the cable with the desired marker number. Connect the cable to the DB1 of the PVDW33 module. Route the other end to the P08033W Cycle Module, but do not connect to the cycle module. (See cycle kit installation guide).
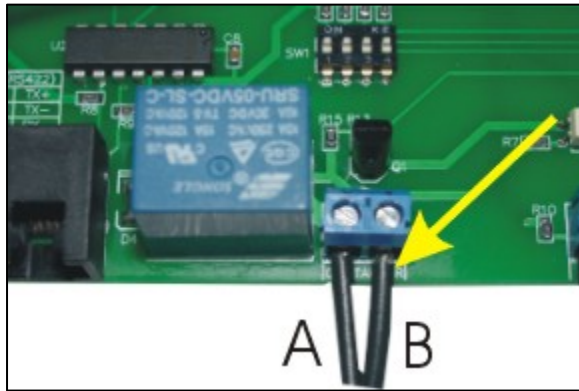
9. Connect the 4-pin cable(supplied) from P5 of the PVDW33 board to the W9 connector of the alarm board of the dryer.
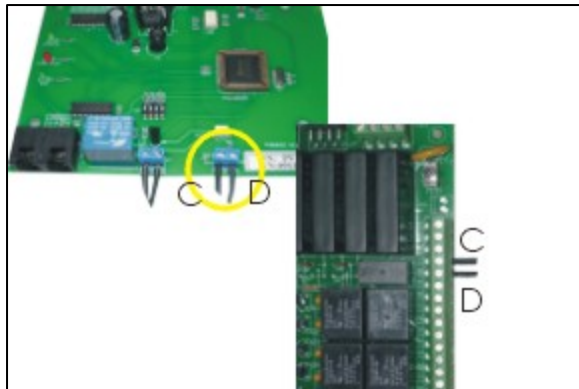

10. Remove wire #40 from the contactor coil of the dryer. Using a quick disconnect(supplied), connect wire #40 to wire A(supplied). Locate wire B(supplied). Install wire B on to the contactor coil where wire #40 was located.

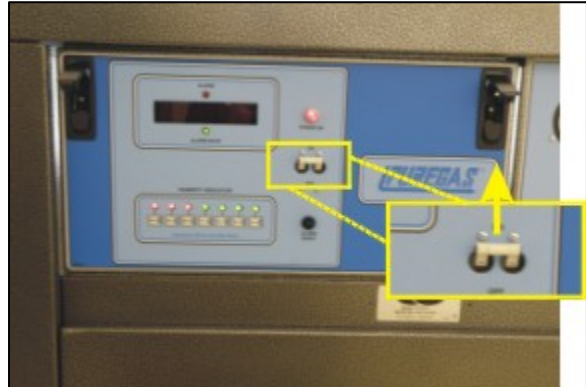11. Route the other ends of wire A and B to P1 of the PVDW33 board.

12. Locate wires C and D(supplied). Route these wires from P3 on the PVDW33 board to Pins 20 and 21 on the alarm board of the dryer.

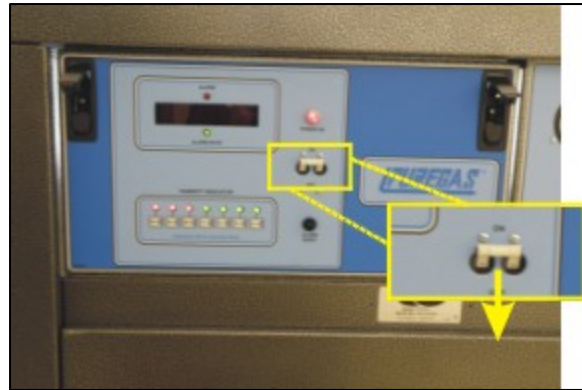13. Install DANGER decal to front panel.
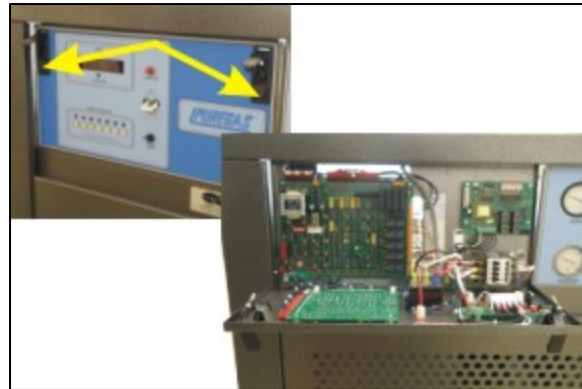

14. Power the dryer back on.
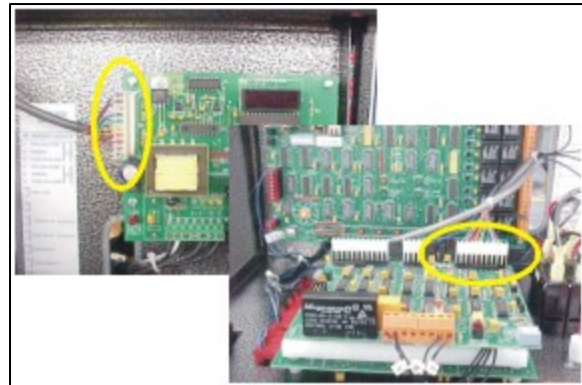
6. Upgrade Installation for a P20/30000D
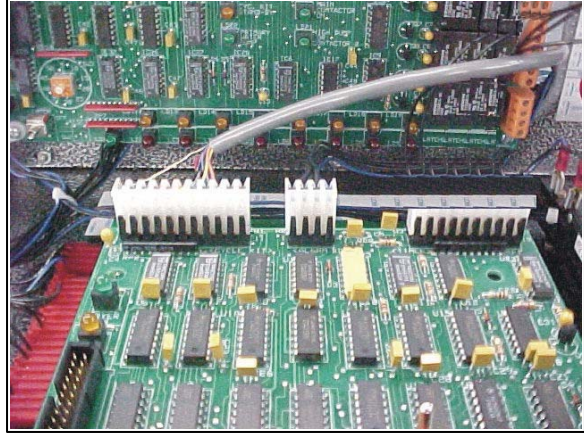
1. Power the dryer OFF.

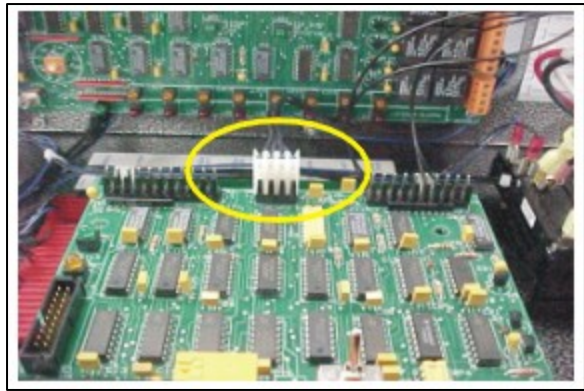2. Release and lower the front panel.

3. Remove the 10-pin connector from W3 on the auto-sync/SSR board and from the solid state timer. This cable can be discarded.
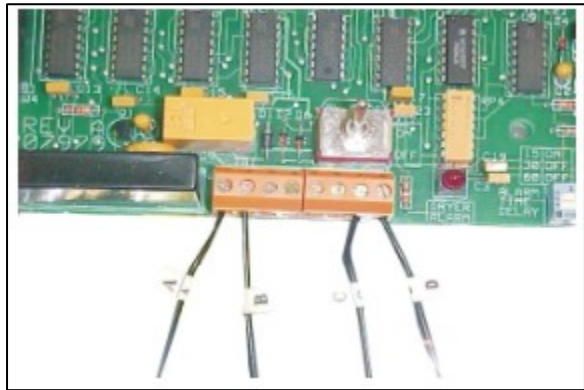
4. Remove the 25' cable from W1 on the auto-sync/SSR board. This cable can be discarded.
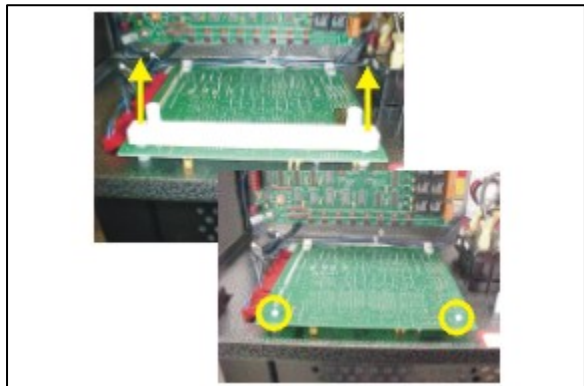

5. Disconnect the 4 pin cable from W2 on the auto-sync/SSR board. Do not discard, this cable will be reused.
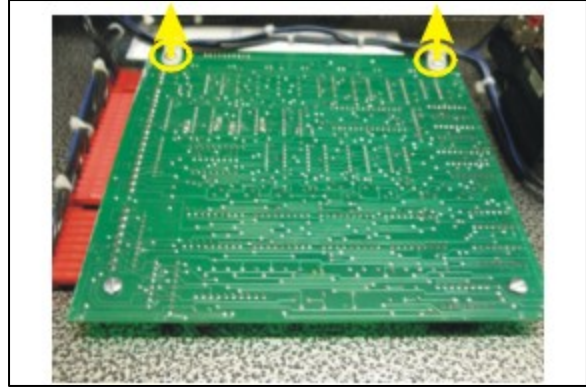

6. Disconnect wires A,B,C,D, and the 4 pin cable from the auto-sync/SSR board. Do not discard, these wires will be reused.
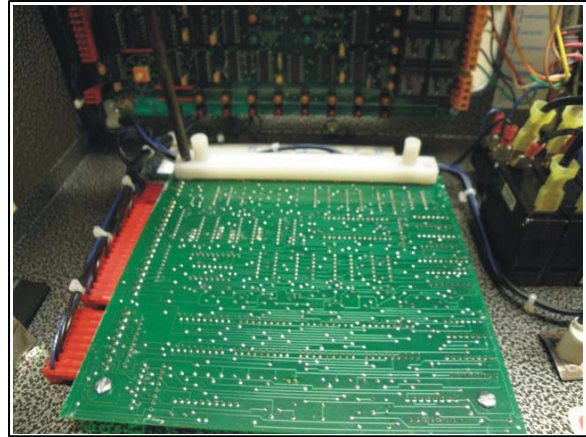

7. Remove the auto-sync/SSR board by removing the two front screws and discard. Remove the spacer bar and plastic washers. Do not discard the spacer bar. Reinstall the two screws onto the display board.

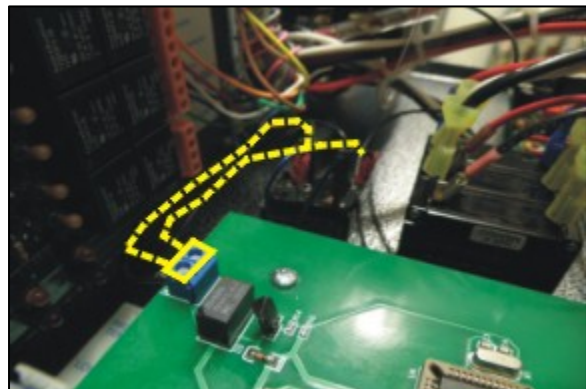8. Remove the two screws holding the plastic clamps on the display board.

9. Mount the plastic bracket assembly on the two plastic clamps using two #6-32 X ½" screws.
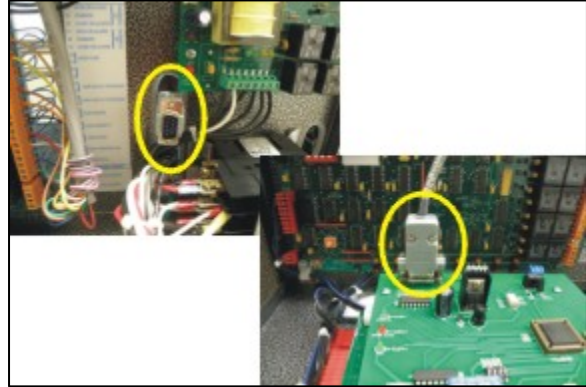

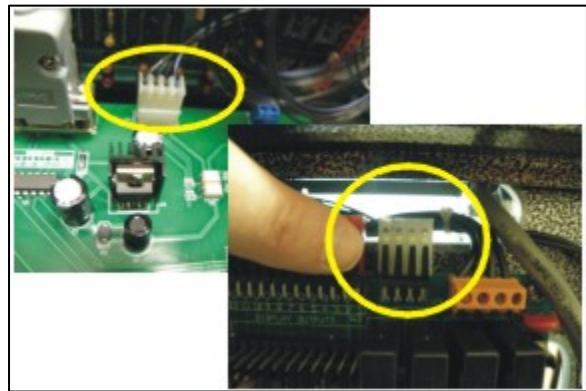10. Mount the PVDW33 board to the bracket using two #6-32 X 1/4" screws.

11. Remove the two wires from the reset switch on the air dryer. Locate the wires E and F. Route wires E and F(supplied) from P2 on PVDW33 board to the dryer reset switch. Reinstall the two original wires from the reset switch onto the terminals of wires E and F.
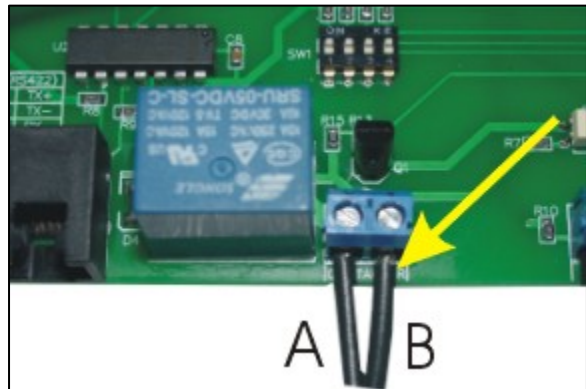
12. Locate the 25' DB9 cable and the cable markers. Label both sides of the cable with the desired marker number. Connect the cable to the DB1 of the PVDW33 module. Route the other end to the P08033W Cycle Module, but do not connect to the cycle module. (See cycle kit installation guide).
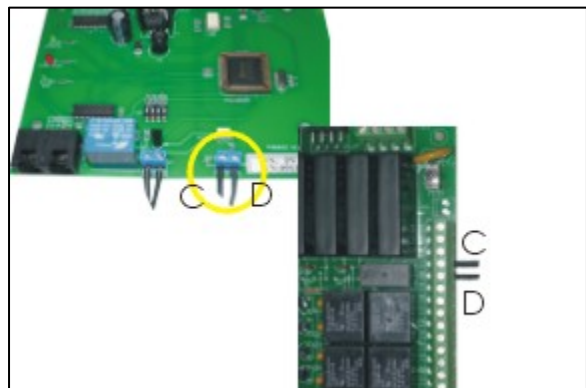

13. Reconnect the 4-pin cable to P5 of the PVDW33 board and verify it is connected to the W9 connector of the alarm board of the dryer.
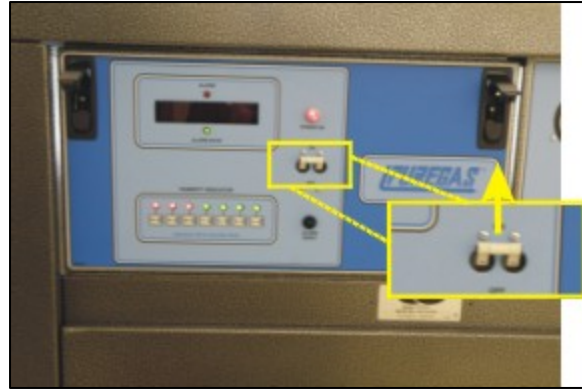

14. Reinstall wires A and B into P1 of the PVDW33 board.

15. Reinstall wires C and D into P3 of the PVDW33 board. Move wires C and D on the alarm board of the dryer to pins 20 and 21.
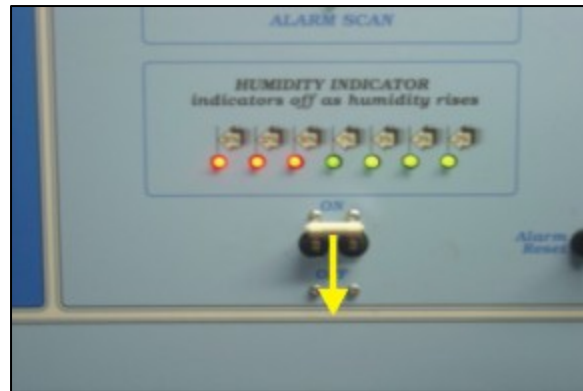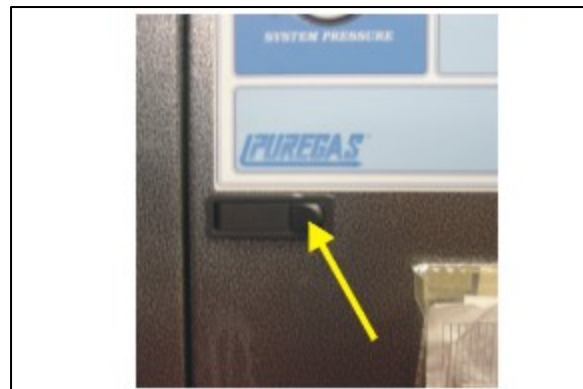
16. Power the dryer back on.
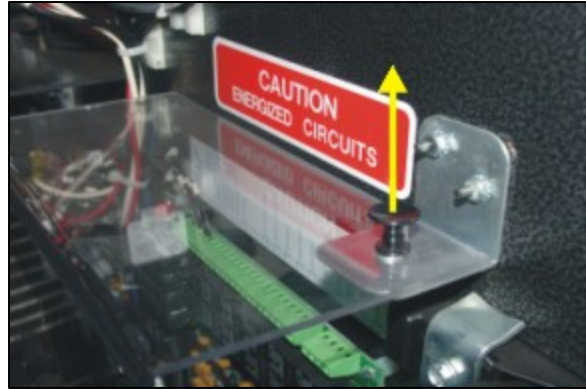

7 New Installation for a P10/15000DCO
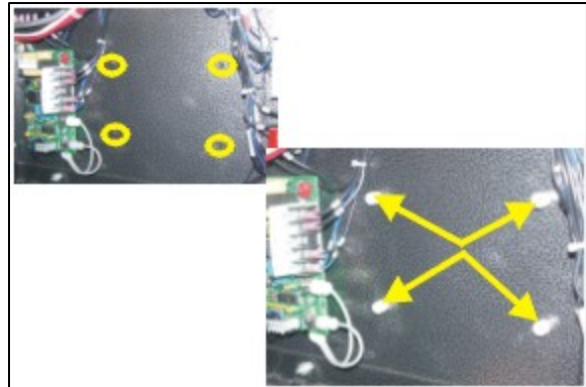
1. Power the unit off.

2. Release and open the front panel.

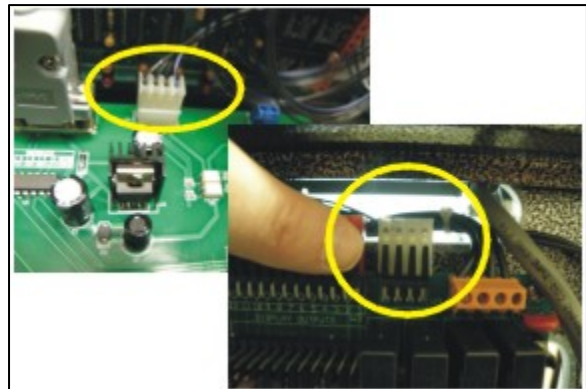3. Locate the two black latches holding the acrylic cover on. Unlatch and bring down the acrylic cover.

4. Locate the pem studs between the humidity board and the alarm board on the front panel of the dryer. Install the four stand offs(suplied) onto pem studs.
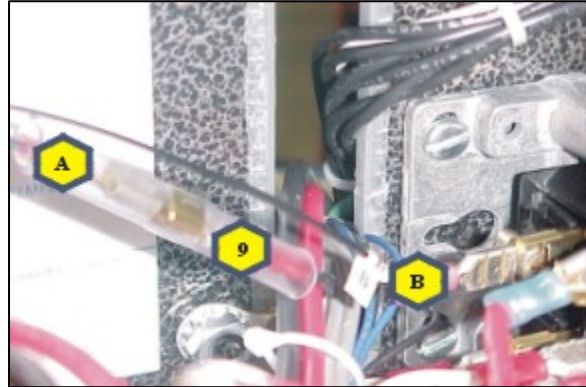

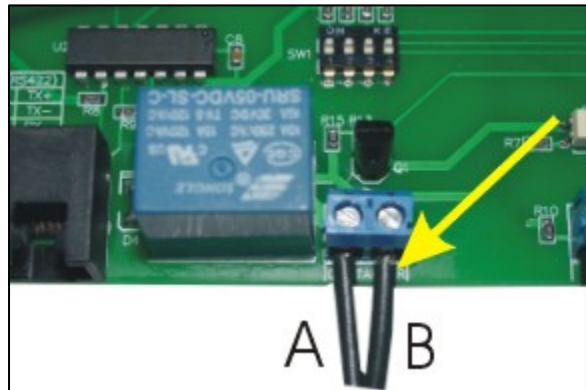5. Mount the PVDW33 board onto stand offs using four #6-32 X ¼" screws.

6. Connect the 4-pin cable(supplied) from P5 of the PVDW33 board to the W9 connector of the alarm board of the dryer.
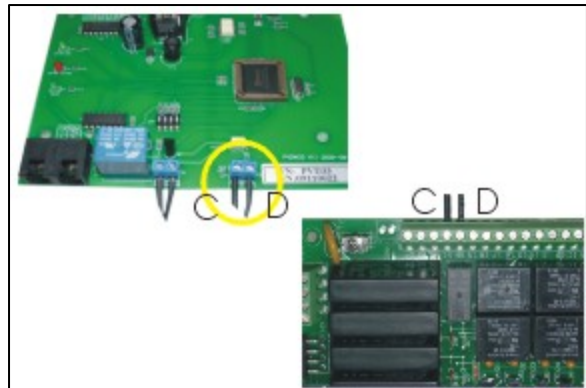
7. Remove wire #9 from the contactor coil of the dryer. Using a quick disconnect(supplied), connect wire #9 to wire A(supplied). Locate wire B(supplied). Install wire B on to the contactor coil where wire #9 was located.
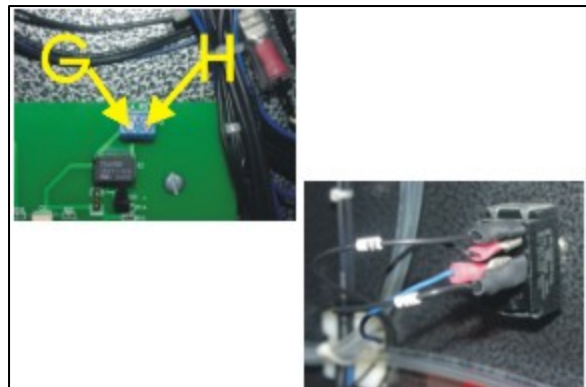

8. Route the other ends of wire A and B to P1 of the PVDW33 board.
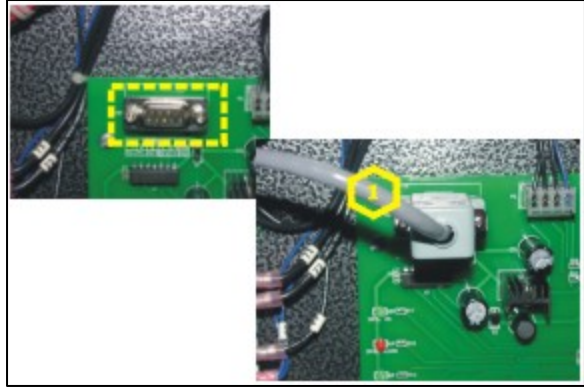

9. Locate wires C and D(supplied). Route these wires from P3 on the PVDW33 board to Pins 20 and 21 on the alarm board of the dryer

10. Remove the two wires from the reset switch on the air dryer. Locate the wires G and H(supplied). Route wires G and H from P2 on PVDW33 board to the dryer reset switch. Reinstall the two original wires from the reset switch onto the terminals of wires G and H.

11. Locate the 25' DB9 cable and the cable markers. Label both sides of the cable with the desired marker number. Connect the cable to the DB1 of the PVDW33 module.
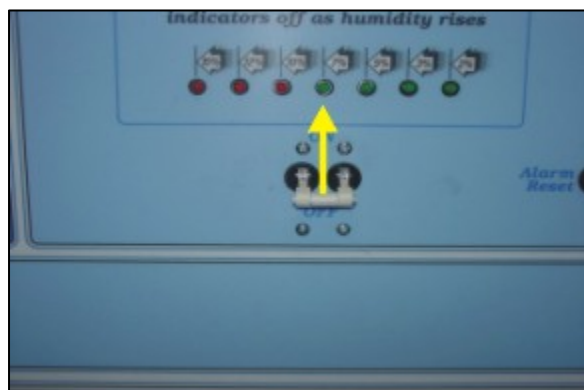

12. Route the other end to the P08033W Cycle Module, but do not connect to the cycle module. . (See cycle kit installation guide). The cable may need to be disconnected at the socket connector to fit through the grommet.
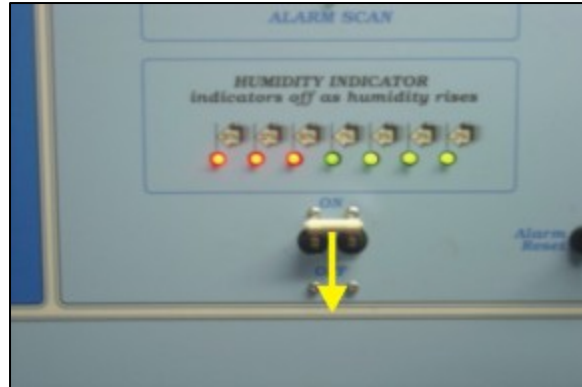

13. Install Danger decal to front panel
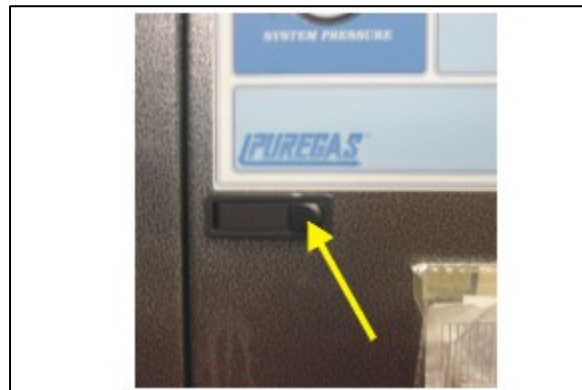

14. Power the dryer back on
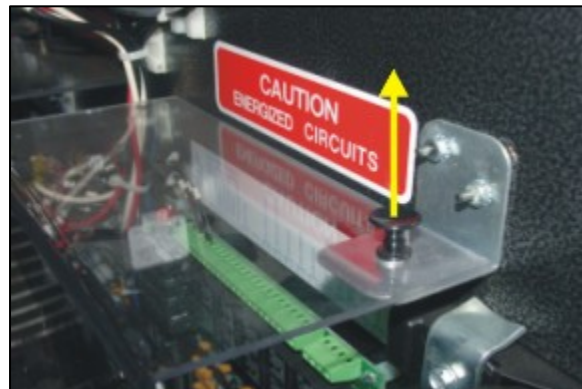
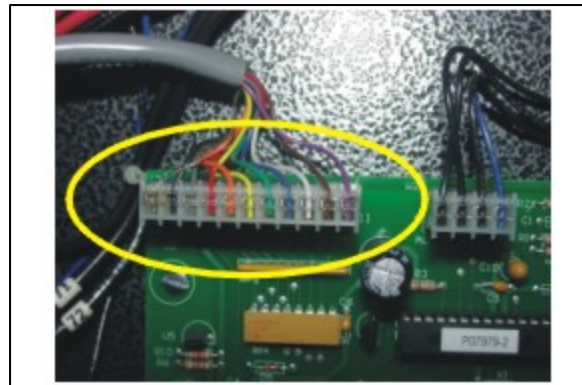## 8. Upgrade Installation for a P10/15000DCO

1. Power the dryer Off.

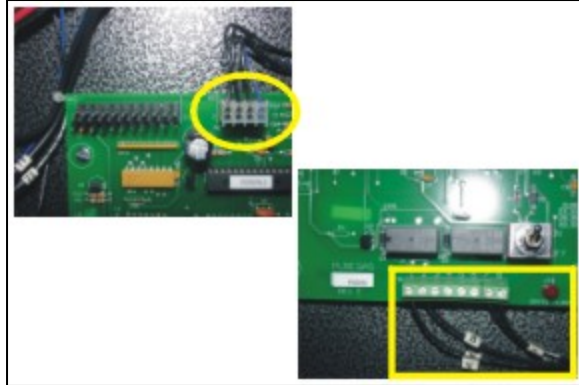2. Release and open the front panel.

3. Locate the two black latches holding the acrylic cover on. Unlatch and bring down the acrylic cover.
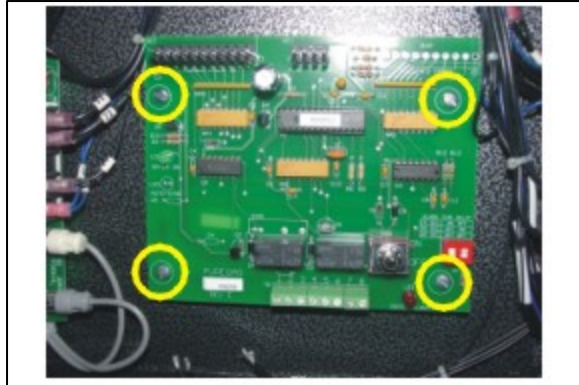
4. Remove the 25' cable from W1 on the SSR board. This cable can be discarded.

5. Disconnect wires A,B,C,D, and the
    4 pin cable from the SSR board.
    Do not discard, these wires will be
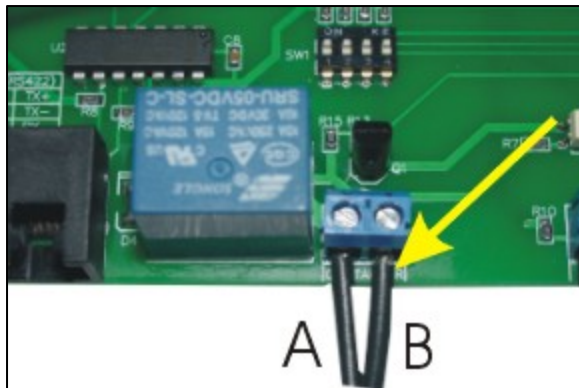   reused.

6. Remove the four screws holding
    the SSR board in place. Remove
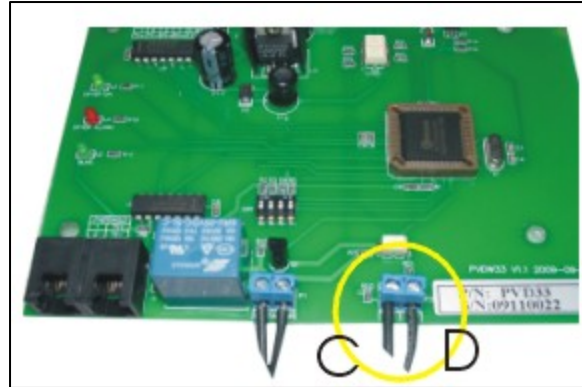   the SSR board and discard.

7. Mount the PVDW33 board using
    four #6-32 X 1/4" screws.

8. Reinstall wires A and B into P1 of
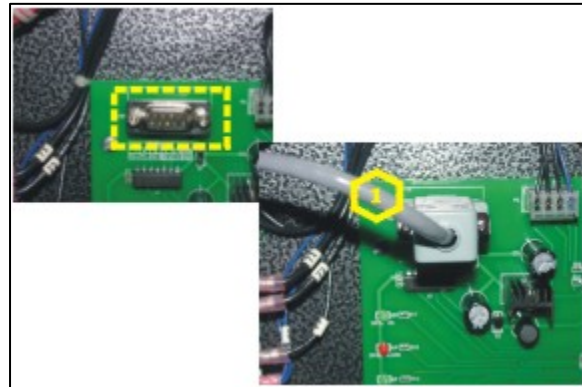   the PVDW33 board.

9. Reinstall wires C and D into P3 of the PVDW33 board. Move wires C and D on the alarm board of the dryer to pins 20 and 21.

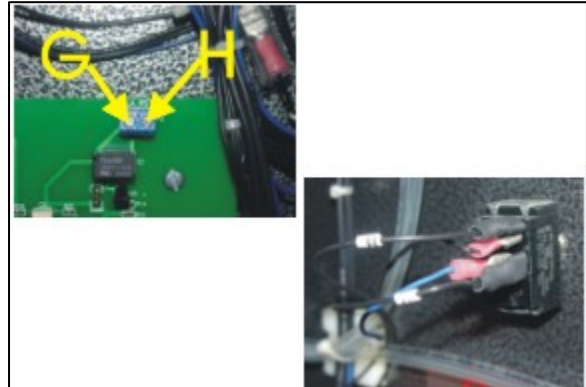10. Reinstall the 4-pin connector to P5 of the PVDW33 board.

11. Locate the 25' DB9 cable and the cable markers. Label both sides of the cable with the desired marker number. Connect the cable to the DB1 of the PVDW33 module).

12. Route the other end to the P08033W Cycle Module, but do not connect to the cycle module. . (See cycle kit installation guide). The cable may need to be disconnected at the socket connector to fit through the grommet.

15. Remove the two wires from the reset switch on the air dryer. Locate the wires G and H(supplied). Route wires G and H from P2 on PVDW33 board to the dryer reset switch. Reinstall the two original wires from the reset switch onto the terminals of wires G and H.

13. Power the dryer back on.