

# DCFT-BKCE



## Overview

On new units remove all packing materials.

Unit is 208 – 240V, 50/60Hz

Display will read “Status – Warming” when turned on.

Warm up time is 10 – 15 minutes.

Temperature Set Point is 540 Degrees F (282.2 Degrees Celsius).

When unit is ready display will read “Status – Ready”.

# DCFT-BKCE

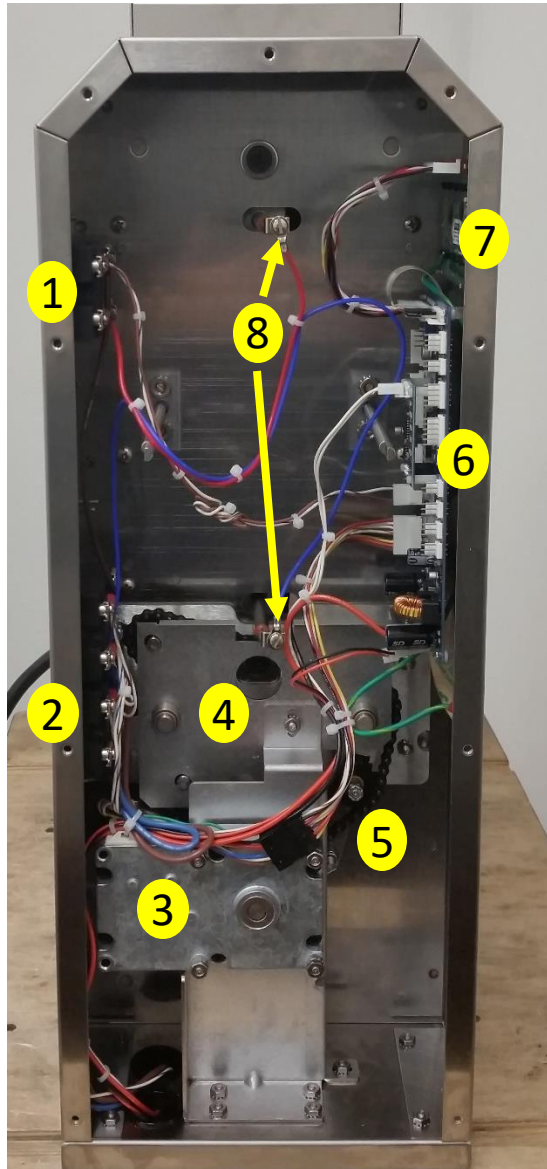
# Exterior Components



1. Conveyor Access Door  
p/n 526-073S
2. Control Panel or Membrane Switch  
p/n 526-221S
3. Platen Adjustment Knobs  
p/n 526-221S
4. Power Switch  
p/n 78-233S
5. Hi Limit Switch  
p/n 526-391S
6. Power Cord  
p/n 72-458S



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# Interior Components

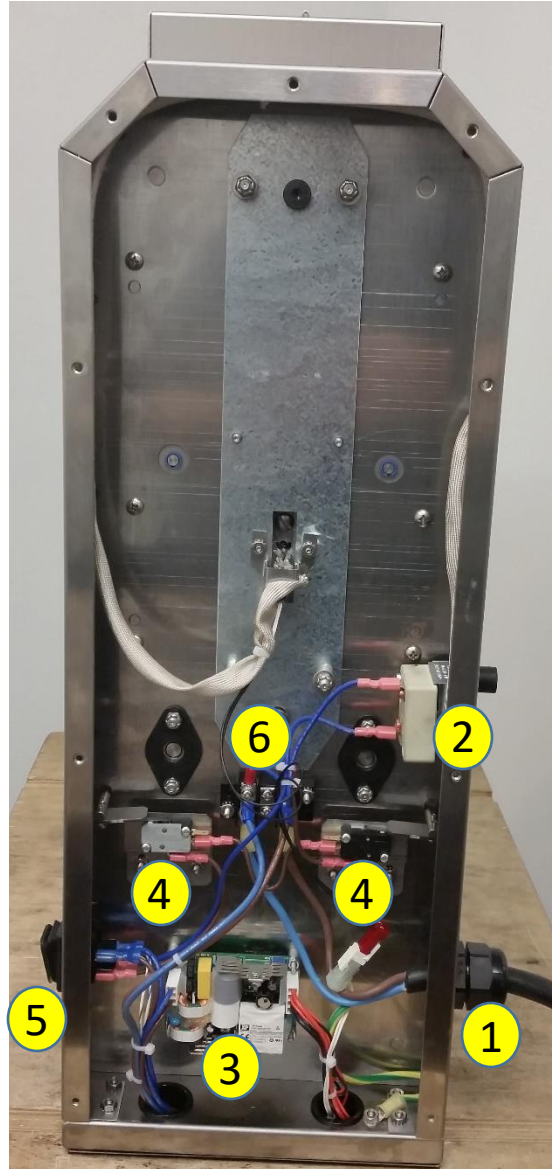
## Control Side

- |     |  |              |
|-----|--|--------------|
| 1.  | Solid State Relay (Platen) 50A DC coil | p/n 65-058S  |
| 2.  | Power Relays 50A AC coil               | p/n 65-064S  |
| 3.  | Motor Assembly                         | p/n 526-025S |
| 4.  | Drive Train Assembly                   | p/n 525-137S |
| 4A. | Drive Gear (2X) 19 Tooth               | p/n 526-081S |
| 4B. | Idler Gear (2X) 14 Tooth               | p/n 526-392S |
| 4C. | Drive Chain                            | p/n 537-728S |
| 5.  | Tensioner Assembly                     | p/n 525-099S |
| 5A. | Tensioner Spring                       | p/n 86-558S  |
| 6.  | Main Board                             | p/n 525-136S |
| 7.  | Display Board                          | p/n 526-021S |
| 8.  | Platen                                 | p/n 526-627S |
| **  | Cooling Fan (Not Shown)                | p/n 526-023S |

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# Interior Components

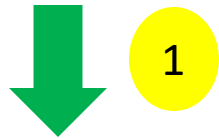
## Cord Side



- |                    |                |
|--------------------|----------------|
| 1. Power Cord      | p/n 72-458S    |
| 2. Hi Limit Switch | p/n 526-391S   |
| 3. Power Board     | p/n 85-144-25S |
| 4. Cutoff Switch   | p/n 525-127S   |
| 5. Power Switch    | p/n 78-233S    |
| 6. Terminal Block  | p/n 77-092-03S |

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# Non Warranty Components



1. Air Shield

p/n 525-029S

\*\* Teflon sheet  
(Not Shown)

p/n 525-004S

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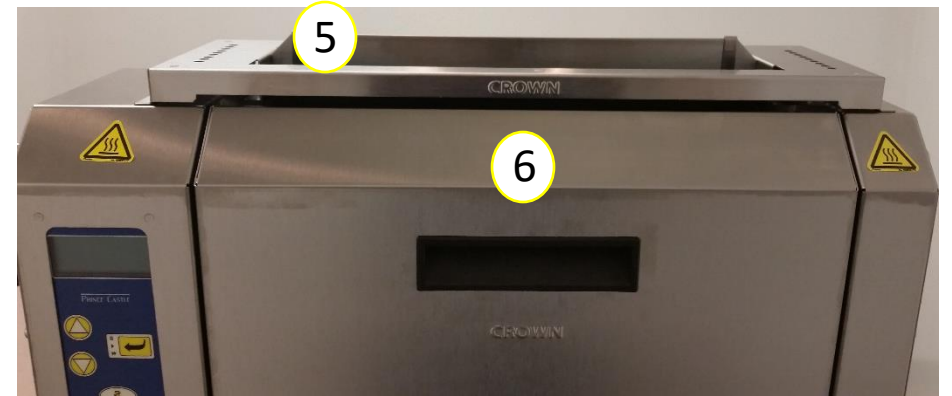


1. Turn on Power Switch.
2. Display will read "Status – Warming".



3. To check temperature of the platen during warming or operation, press and hold the "i" button.

# Operation



4. When the display reads "Status – Ready" the unit is ready to toast.
5. Place the buns in the unit with the cut side toward the center.
6. Crowns on the front side.
7. Heels on the back side.

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1. Press and hold the PRINCE CASTLE button for 6 seconds.

2. Display will show "Programming Version 1.00".



3. Press the "UP" or "DOWN" arrow until the Display reads "Toast Time".

4. Press the MODE button. The current toast time will be displayed. Factory setting is 12.5.

# Programming Toast Time



5. Using The "UP" or "DOWN" button, adjust the time to the desired setting. Up for darker toast, down for lighter.

6. When the desired setting is displayed, press the Mode button to return to Programming.



7. To return to Operation press the PRINCE CASTLE button.

# DCFT-BKCE Programming Temperature Scale



1. Press and hold the PRINCE CASTLE button for 6 seconds.

2. Display will show "Programming Version 1.00".



5. Using The "UP" or "DOWN" button, select either "TEMP = C" or "TEMP = F".

6. When the desired setting is displayed, press the Mode button to return to Programming.



3. Press the "UP" or "DOWN" arrow until the Display reads "Select F/C".

4. Press the MODE button. The display will show "Set F/C"



7. To return to Operation press the PRINCE CASTLE button.



# DCFT-BKCE

# Programming Temperature Set Point



1. Press and hold the PRINCE CASTLE button for 6 seconds.

2. Display will show "Programming Version 1.00".



5. Using The "UP" or "DOWN" button, adjust the temperature to the desired setting. Up for darker toast, down for lighter.

6. When the desired setting is displayed, press the Mode button to return to Programming.



3. Press the "UP" or "DOWN" arrow until the Display reads "Select Platen Temperature".

4. Press the MODE button. The display will read "Set Platen Temp". Factory setting is 540.



7. To return to Operation press the PRINCE CASTLE button.

# DCFT-BKCE



1. Press and hold the PRINCE CASTLE button for 6 seconds.

2. Display will show "Programming Version 1.00".



3. Press the "UP" or "DOWN" arrow until the Display reads "Select Language".

4. Press the MODE button. The display will show "Language = English"

# Programming Toast Time



5. Using The "UP" or "DOWN" button, scroll through the language selections.

6. When the desired language is displayed, press the Mode button to return to Programming.



7. To return to Operation press the PRINCE CASTLE button.

# DCFT-BKCE

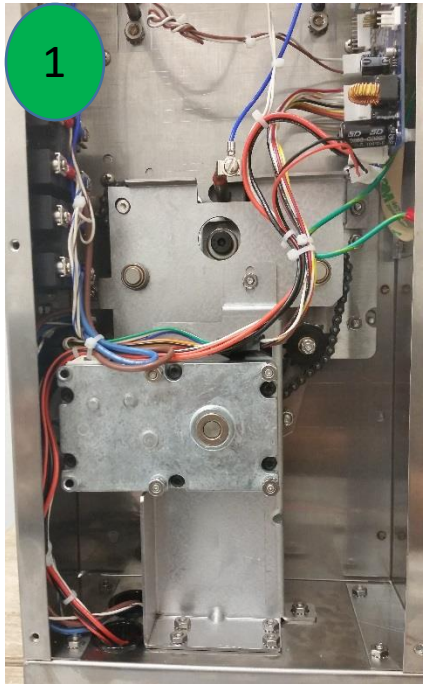
- To clean the unit first shut the unit off and allow to cool for 60 minutes.
- Open the doors and wipe the inside of the doors with a damp cloth.
- Remove release sheet and lay it on a flat surface.
  - Wipe the release sheet with a clean cloth dampened with soap and water.
- Be sure to remove all sugar build-up is removed, then allow to air dry.
- Wearing gloves wipe the conveyors with a damp cloth, use a brush as needed.
  - Repeat for both sides.

# Cleaning

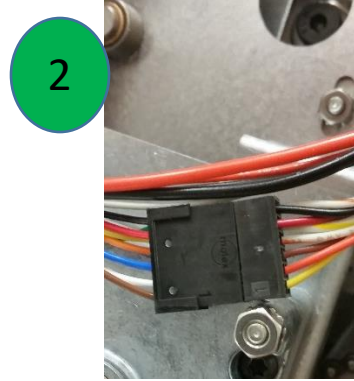


# DCFT-BKCE

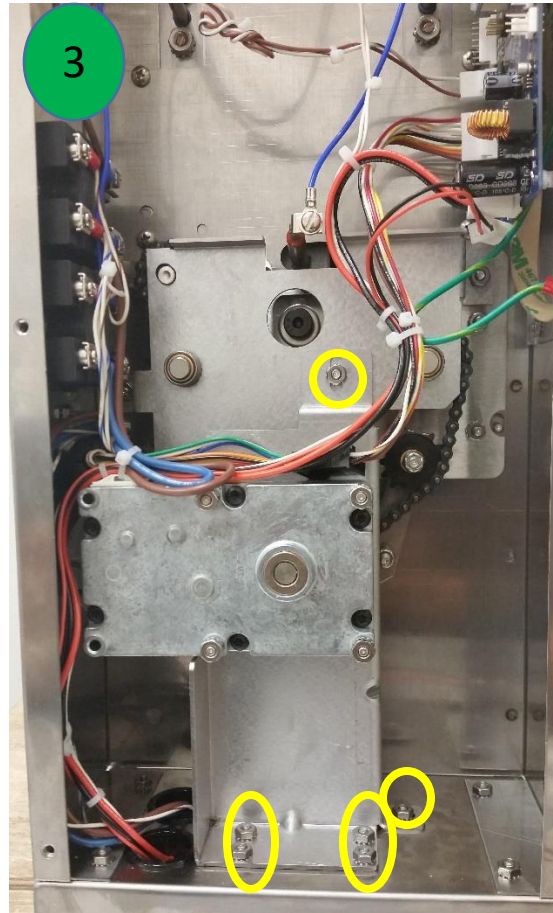
# Removing the Motor



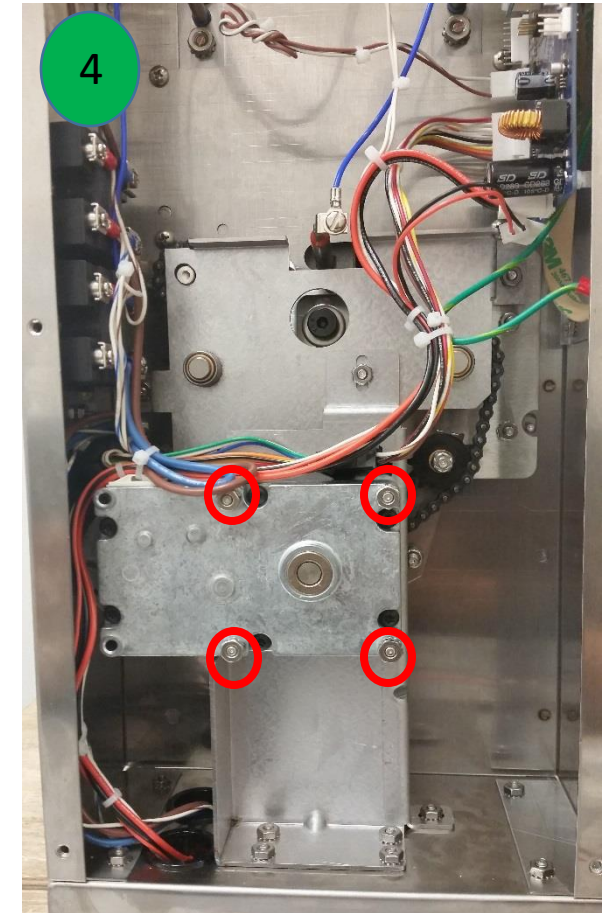
1. Disconnect unit from power. Access the interior of control side riser.



2. Disconnect the wire connection to motor.



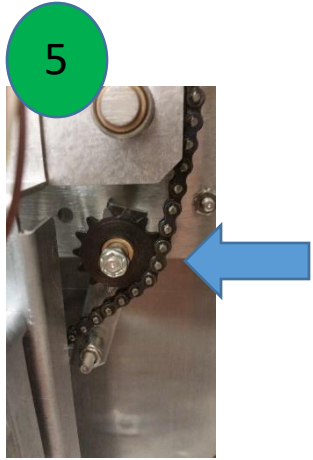
3. Remove nuts (6) highlighted here. Nuts are 9mm.



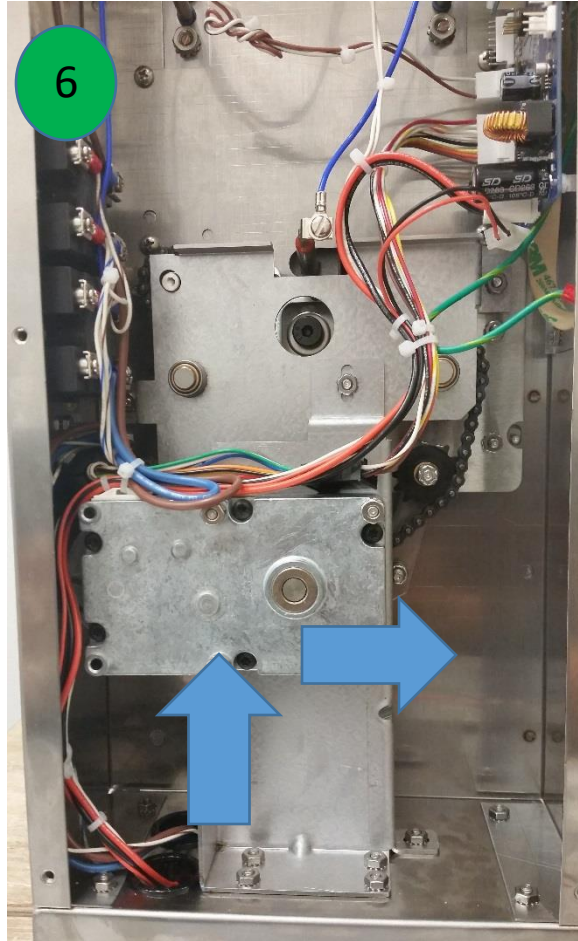
4. Remove nuts (4) highlighted here. Nuts are 9mm.

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# Removing the Motor cont.



5. Disengage chain by moving tensioner toward center of unit and removing chain from sprocket.



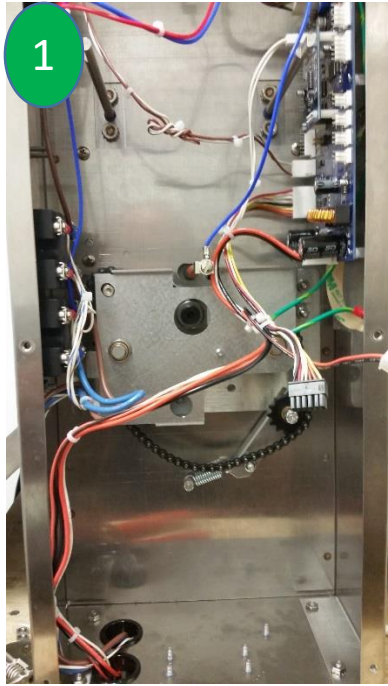
6. Pull bracket upwards and towards the right to remove motor from unit.



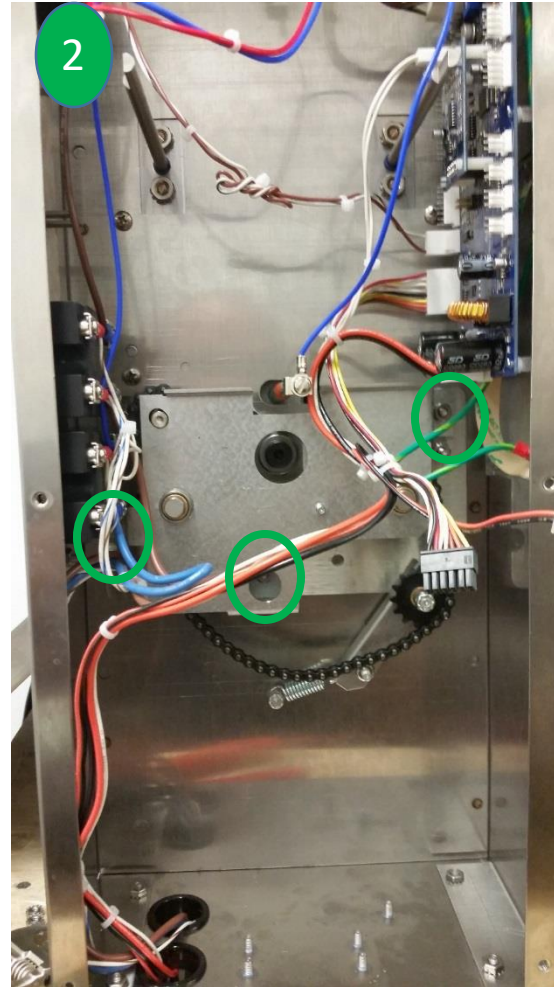
7. Motor is clear of unit and the drive assembly is accessible.

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# Accessing Drive Assembly



1. Remove motor as described above.

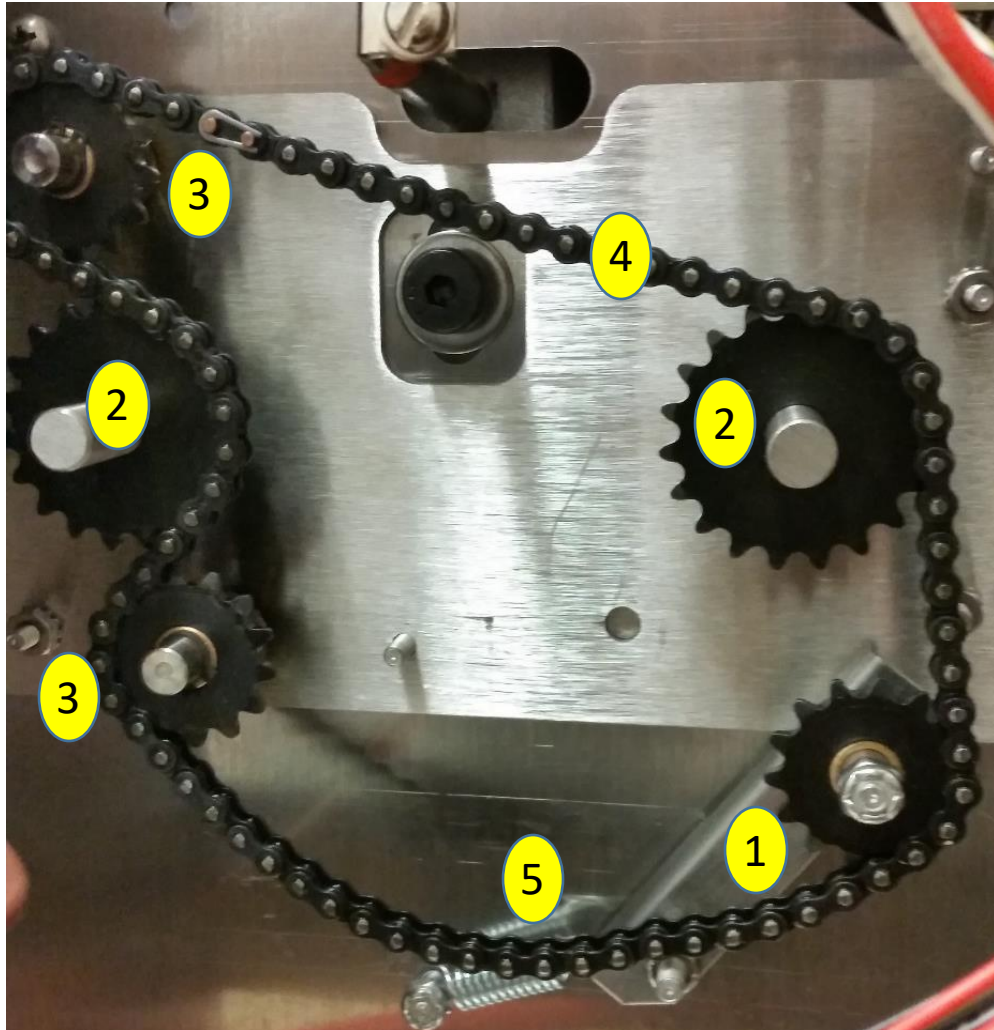


2. Remove the screws highlighted here.



3. Pull cover plate from shafts. Cover plate has bearings for drive gears.

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# Drive Assembly

After removing the cover plate, the gears and chain of the drive assembly are accessible.

- |                          |              |
|--------------------------|--------------|
| 1. Tensioner Assembly    | p/n 525-099S |
| 2. Drive Gear (19 Tooth) | p/n 526-081S |
| 3. Idler Gear (14 Tooth) | p/n 526-392S |
| 4. Drive Chain           | p/n 537-728S |
| 5. Tensioner Spring      | p/n 86-558S  |

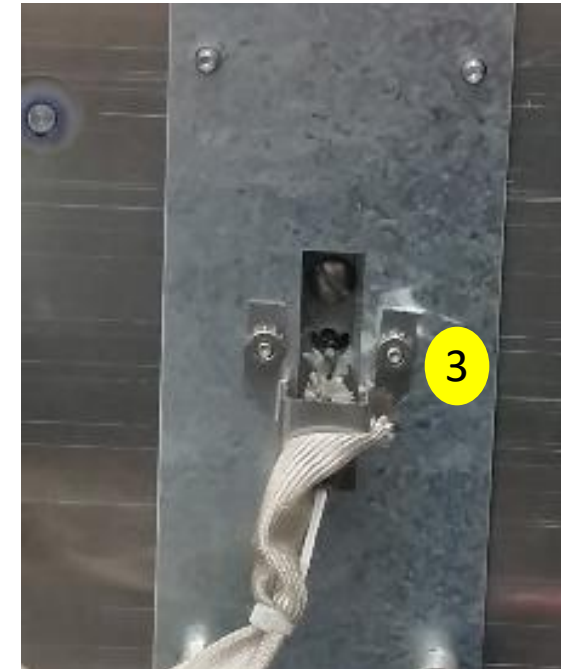
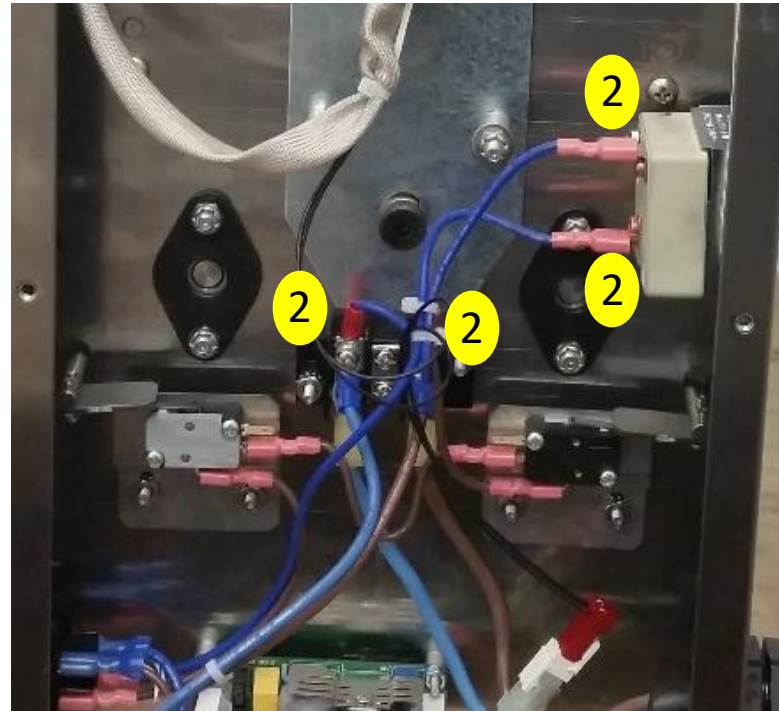
The gears are held in place with snap rings. One in the rear of the gear and one in the front.

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# Removing the Platen

1. Power unit off.  
Remove both side panels. Remove Air Shield and Teflon Sheet.

2. Remove wires from Hi limit and top terminals of Terminal Block.



3. Remove bracket and both temperature probes from platen.



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# Removing the Platen



1. Remove highlighted screws.

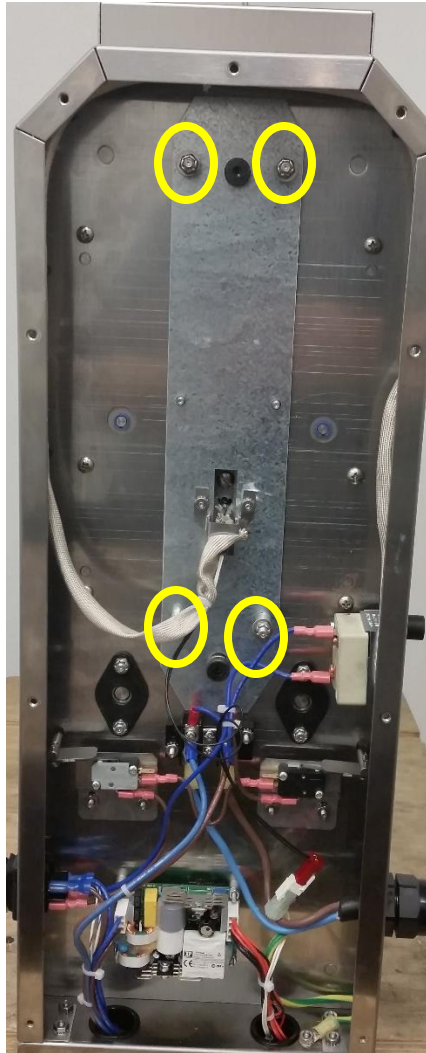
Spacers between platen and upright will drop to base.

2. Remove platen power wires. Make sure to back-up terminal to prevent damaging terminal.

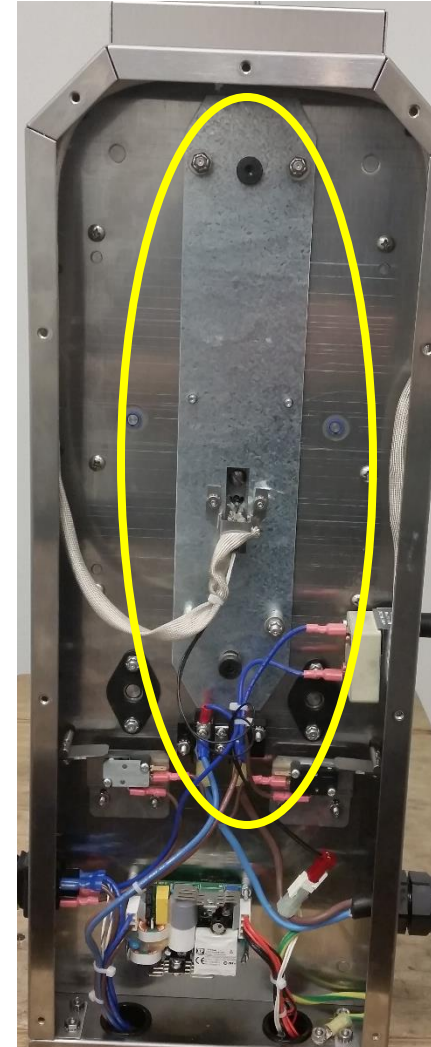


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# Removing the Platen



1. Remove the four nuts shown here. These nuts hold in springs, remove the springs as well.
2. Gently pull the entire plate away from the body of the unit



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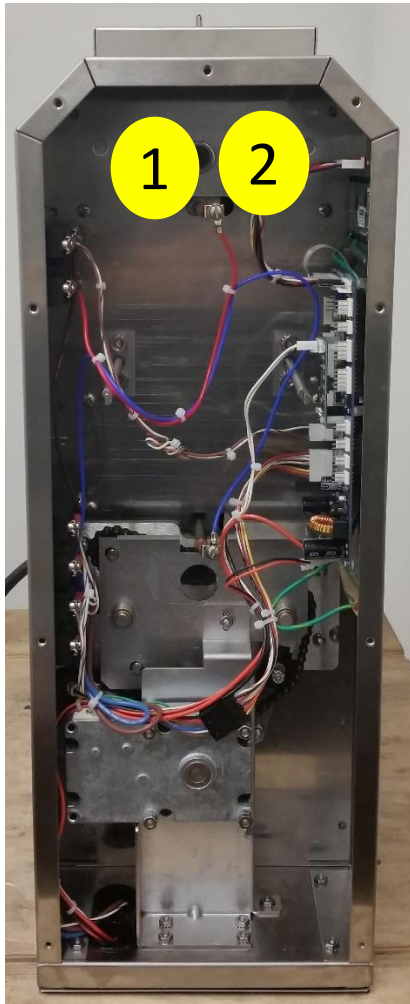


# Removing the Platen

When platen is clear of the unit remove the platen screws to remove plate from platen.

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## Removing the Membrane Switch and Board



1. Remove unit from power.
2. Access the control area by removing side panel.
3. Disconnect membrane switch ribbon cable from board.

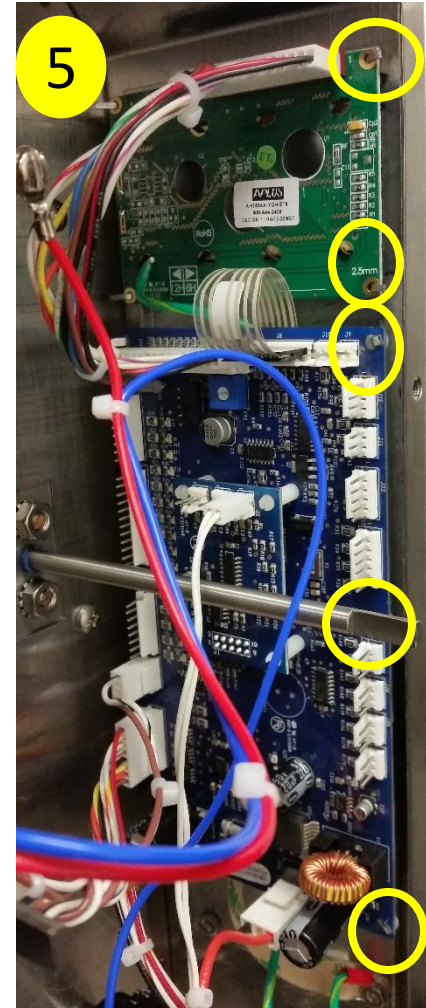


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## Removing the Membrane Switch and Board



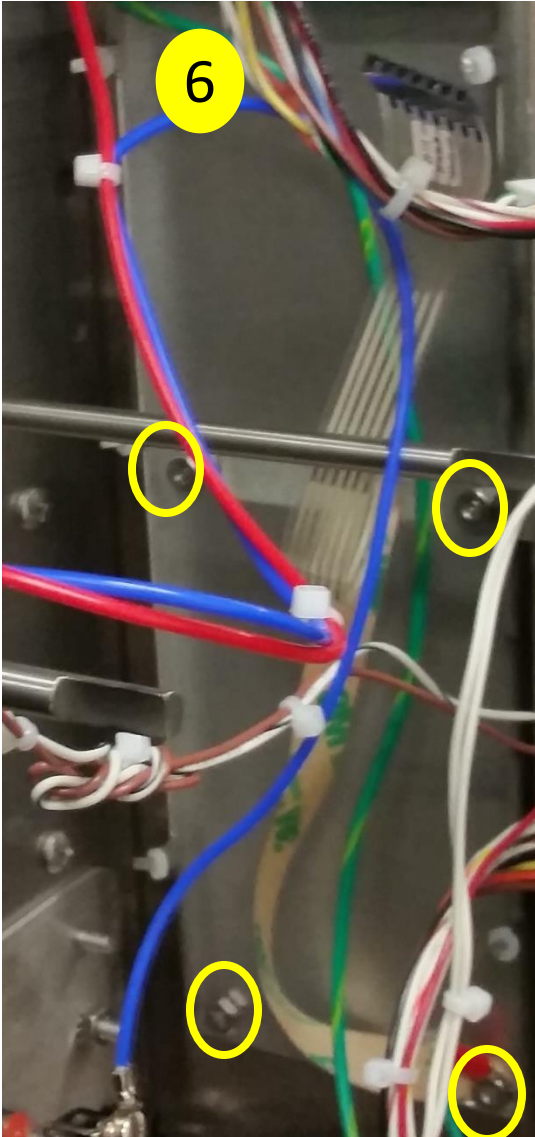
4. Remove all other connections from boards.



5. Bend tabs holding boards in place. Pull board toward back of unit to clear tabs. Push board slightly toward center of unit to remove board from back tabs. Board is now able to be removed.

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## Removing the Membrane Switch and Board



6. Once the boards are removed, the membrane switch is held in place by six nuts (four are highlighted here). Remove these nuts and the Membrane Assembly is able to be removed from the unit.

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Platen

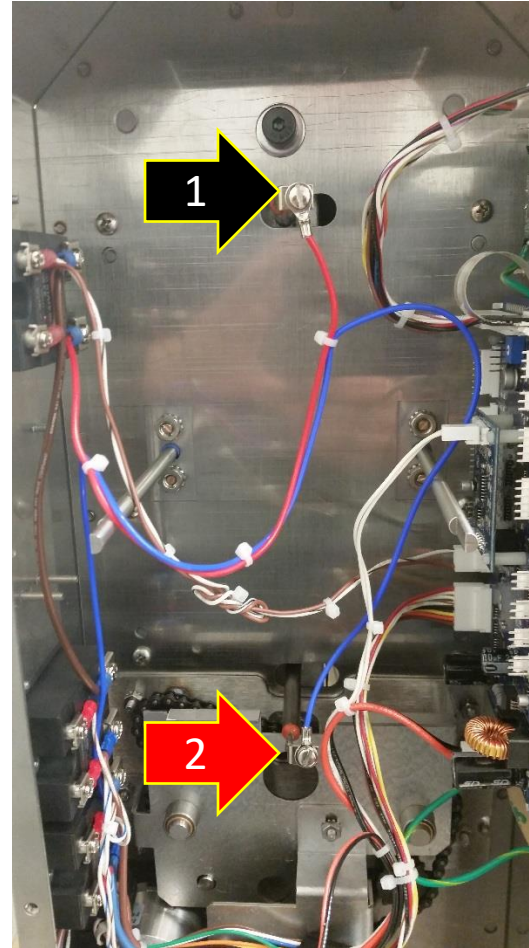
p/n 526-627S

Voltage reading between point  
1 and 2 should be 240VAC  
when the unit is operating.

When unit is Off reading  
should be 0VAC.

Ohms reading should be  $17\Omega$   
 $\pm 15\%$ .

# Component Parameters



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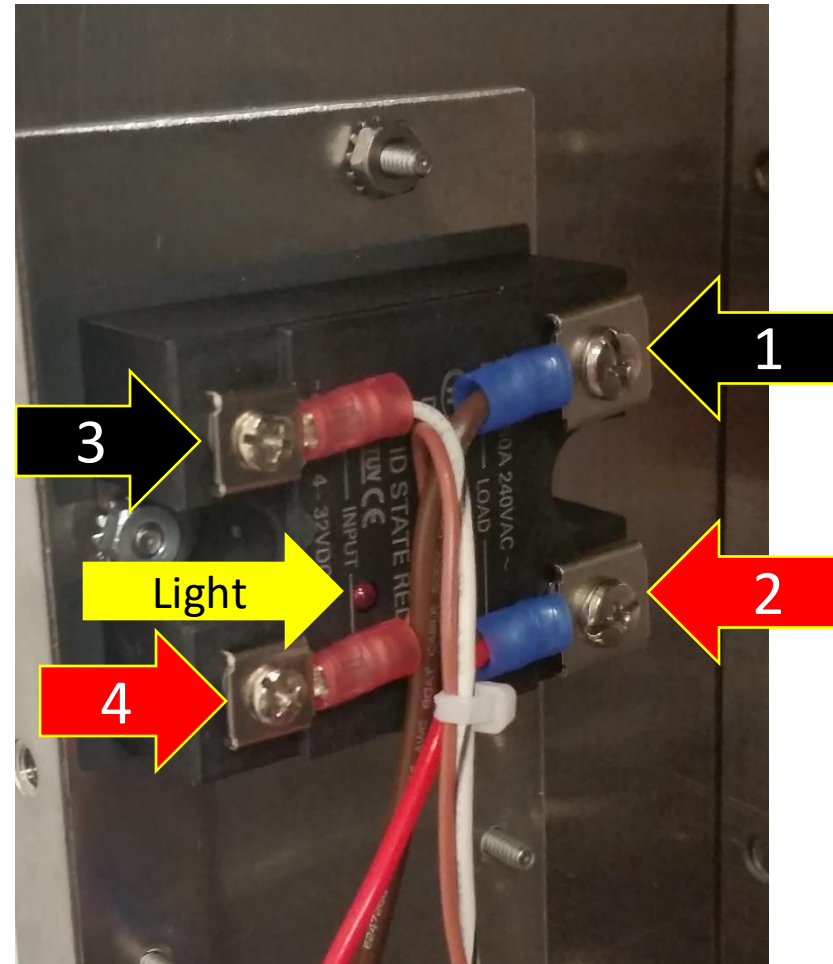
# Component Parameters

## Heater Relay p/n 65-058S

When unit is operating voltage reading between point 1 and 2 should be 0VAC.

If reading is 240VAC and light is on relay is no good.

Reading at points 3 and 4 should be 24VDC and light should be lit.





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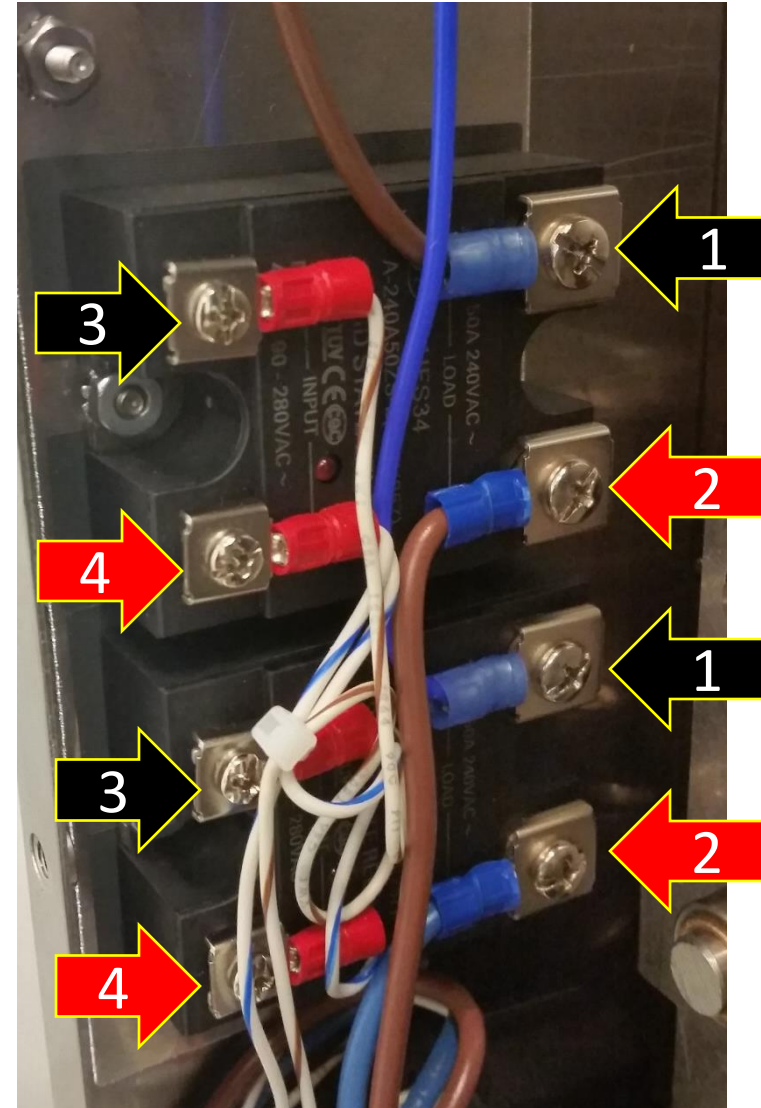
# Component Parameters

## Power Relays p/n 65-064S

When unit is operating voltage reading between point 1 and 2 should be 0VAC.

If reading is 240VAC and light is on relay is no good.

Reading at points 3 and 4 should be 240VAC and light should be lit.



# DCFT-BKCE

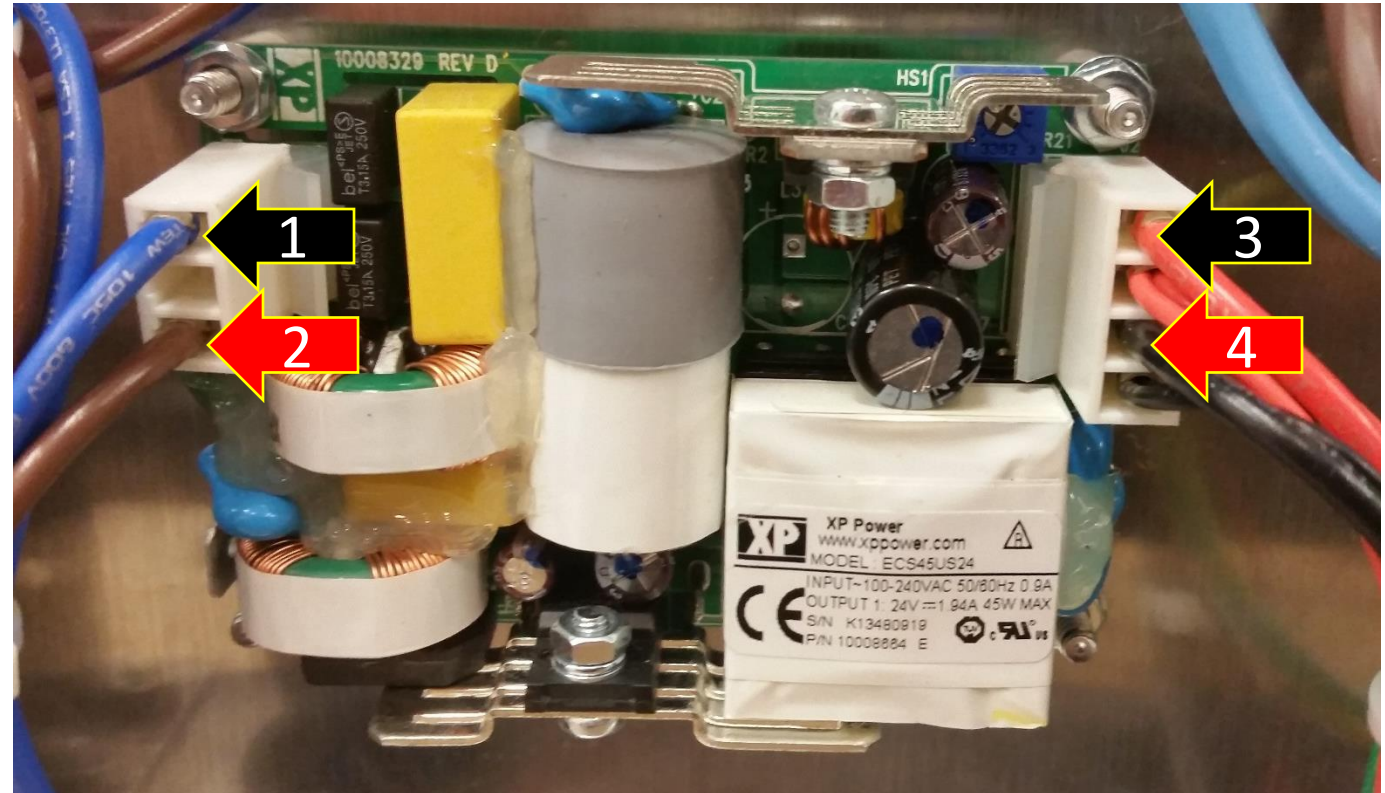
# Component Parameters

Power Board  
p/n 85-144-25S

Voltage reading between points 1 and 2 should be 240VAC.

Voltage between points 3 and 4 should be 24VDC.

If points 3 and 4 have a different reading the power board is no good.



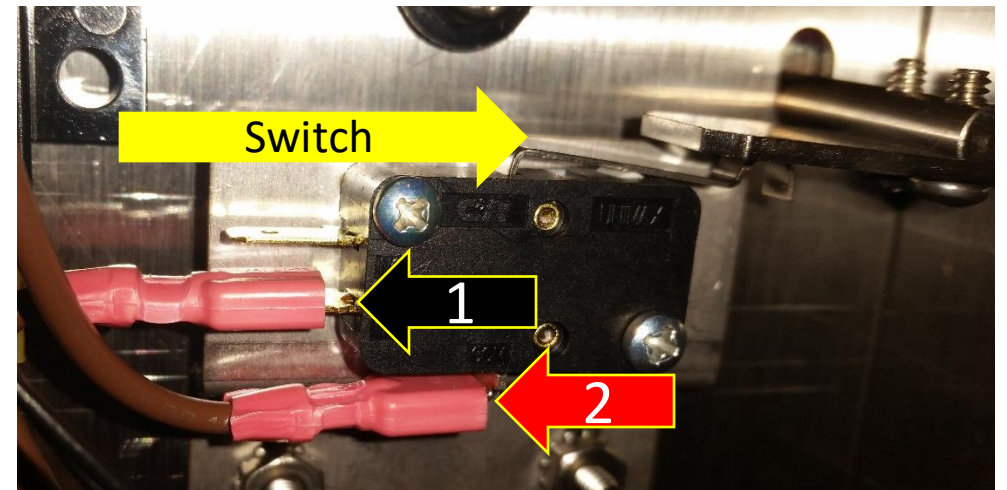
# DCFT-BKCE

# Component Parameters

## Cut-off Switch p/n 525-127S

If switch is depressed voltage reading on points 1 and 2 should be 0VAC.  
If reading is 240VAC switch is no good.

Switch should be depressed when doors are in closed position.  
There is a switch for each door.



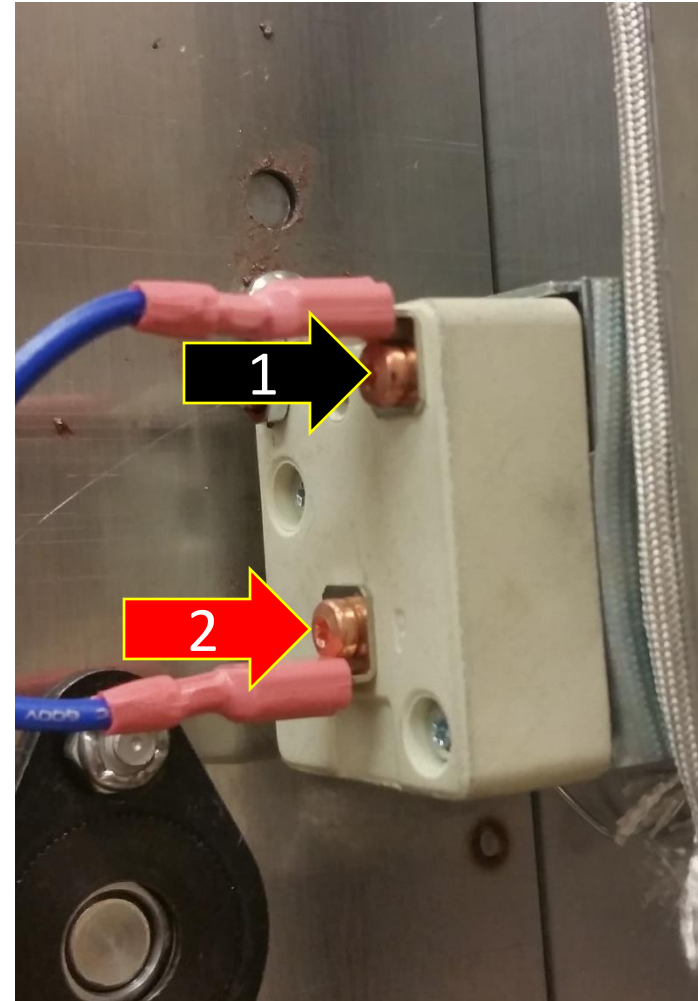
# DCFT-BKCE

# Component Parameters

Hi Limit Switch  
p/n 526-391S

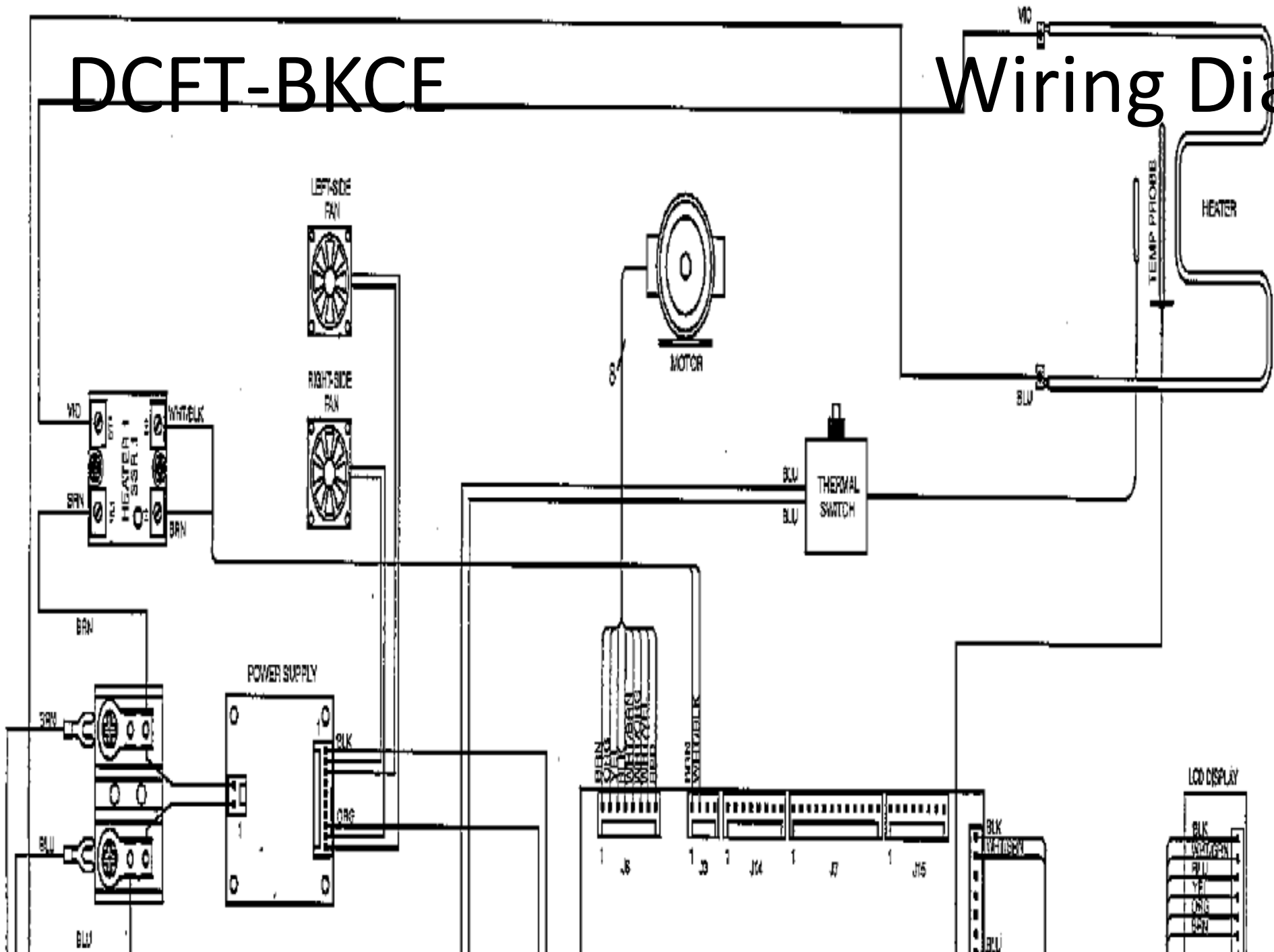
Voltage reading between point 1 and 2  
should be 0VAC.

If reading is line voltage the Hi Limit is either  
no good or needs to be reset.



# DCFT-BKCE

# Wiring Diagram



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# Component Parameters

Terminal Block  
p/n 77-092-03S

The voltage reading between points 1 and 2 should be 240VAC if the unit is connected to power. If reading is different check supply voltage.

