

## Motor Replacement Guide and PCB replace

Please read/ review all steps thoroughly before proceeding with motor replacement !!!!!.

Take your time when doing the replacement especially with the motor wires. They are very tiny and if manhandled break off from the solder..

**File Photos referenced on the following pages including tools needed. File photo # 1.**

**1) Remove the six black screws on the right hand panel (top, back, bottom.) File Photo # 2 –blue arrows**

**2) Slide the panel forward to disengage the tabs. Panel w/ side fan have a fan tethered to the PCB, be careful when removing.**

**File Photo # 2- red arrow**

\*\*\*\*\*Looking into the right hand side, to the upper right (back of the roaster) you will see a black cooling fan attached to a triangular duct held in place by two screws and below it a PCB. **File Photo # 3**

**3) With a magnetic tipped screw driver or being cautious not to drop them, remove the screws holding the PCB to its plastic mounting- File Photo # 3 – light blue arrows**

\*\*\* Do Not disconnect any wires until later instructed

**4) Remove fan housing screws and remove the fan/duct by gently moving the PCB towards you and drop the fan housing down and out.. Leave it plugged in, letting it dangle (gently). The fan housing is held in place by a couple tabs further in, so you may have to wiggle it a bit to remove it. File Photo # 3- red arrows (also see below #13)**

\*\*\* You may need to leverage the outer lip (**green arrow**) with a flat bladed screwdriver to release the fan from it's upper housing. Just be gentle. File Photo # 3

**5) From inside the roaster chamber locate the two screws to the top and bottom of the motor. File Photo # 5- blue arrows**

**6) From the right hand side, remove the motor/bracket. Twist it slightly to get clearance.**

**7) Clip the zip ties (careful to not cut any wires) that hold the motor wire. File Photo # 3**

**8) Unplug the motor from the circuit board. File Photo # 3- red bordered insert**

\*\*\*\* note: little clip (**blue arrow**) on connector needs to be pressed to release

9) Remove the two screws holding the old motor to the bracket. File Photo # 4- **blue arrows**, using same screws and lock washer attach the new motor to the bracket

10) Install the new motor/bracket with lock washers, and screws provided. File Photo # 4- **red** and **green arrows**

\*\*\*\* Step 10 addendum- changes were made so the bracket now accepts screws directly into threads of the bracket- disregard black clips ion photo

11) From the roaster chamber, install the new screws with the lock washer on the chamber side. File Photo # 5- **blue arrows**

12) Plug in the new motor. File Photo # 3- **red boxed insert**

13) Zip tie/ wire together. File Photo # 3

14) Reinstall the cooling fan. You may need to leverage the outer lip (**green arrow**) into place with a flat bladed screwdriver. Just be gentle. File Photo # 3

15) Screw the fan and PCB back into place. File Photo # 3-**red arrows** and **light blue arrows**

16) Put the right panel back in place and screw the panel back on. File Photo # 2

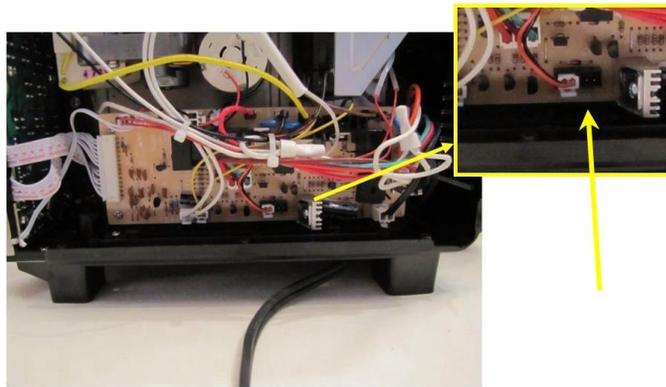
**\*\*\* If you received an err1 and err6 or simply remove/ replace side PCB you'll need to remove the side PCB we note in #3. This requires removing all connections to include a small toggle we in the jpeg on the last page.**

If you do not understand something or have an issue please email us at [tech@behmor.com](mailto:tech@behmor.com) describe the situation we'll do our best rectify the issue via.

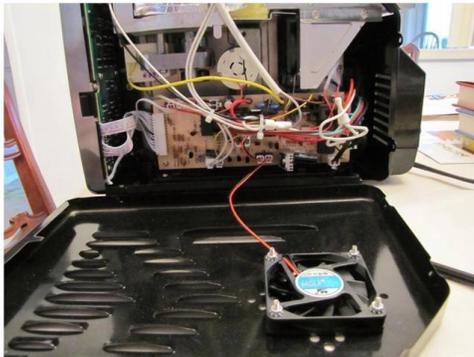
Please include your telephone number.



Remove 6 screws (blue arrows), slide panel forward (orange arrow) set panel aside

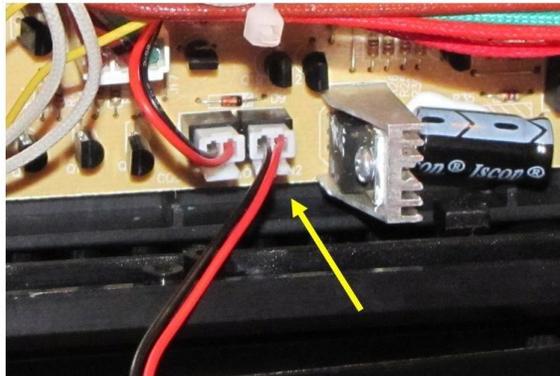


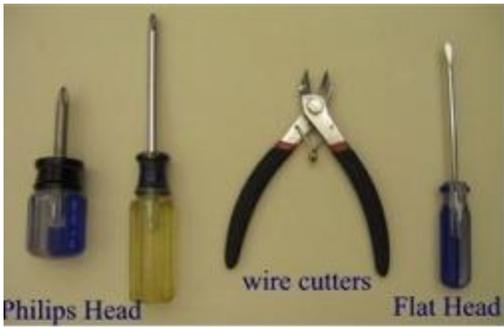
View area in particular blow up yellow box. Two connectors. One is filled the other empty. Empty connector is for the fan connection.



Lay panel flat beside the roaster. Insert male connector into the opening on the PCB (yellow arrow). Note the male connector has a tiny tab. That tab is to be downward as shown. Press Cool for a quick test, then re-assemble by gently lifting the panel and easing it back in place. Then replace the screws.

**Remember you've just connected the panel to the PCB, so it is tethered to the roaster- Do not pull .. be gentle**



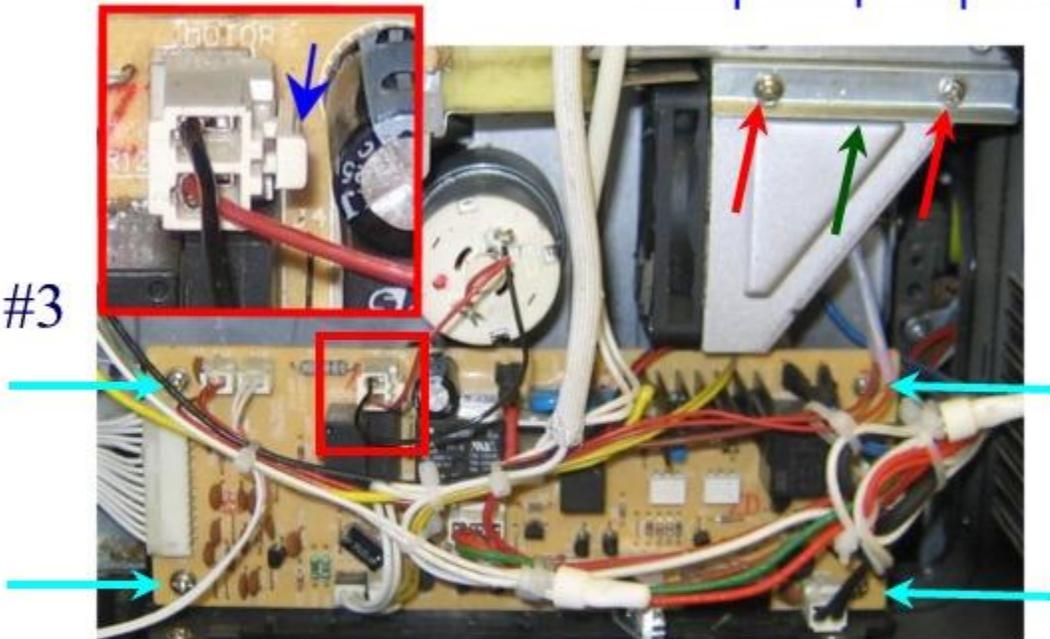


#1

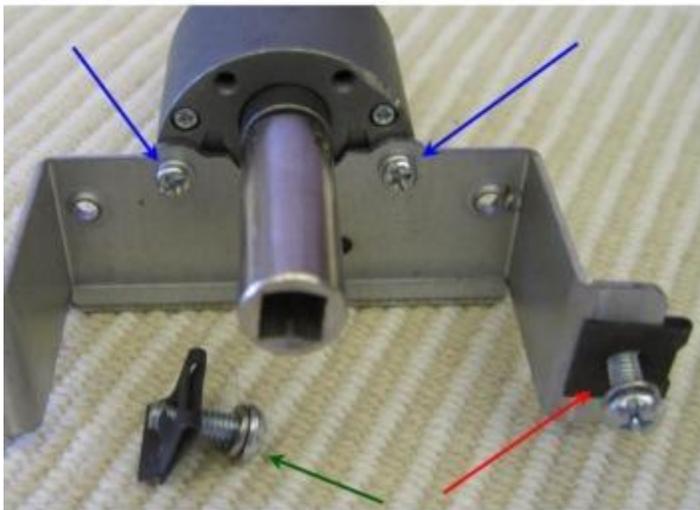
#2



#3



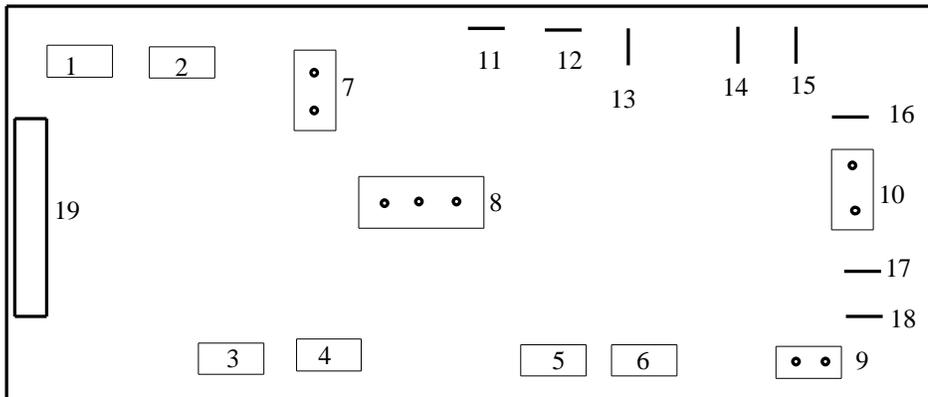
#5



#4



### PCB Wire Color Code/ Connections



#### Small Clips

- 1) Dbl. Red Wire or Yellow- Thermister connected to DC Fan housing
- 2) Dbl. White Wire – from Front PCB panel- DC Motor sensor
- 3) Dbl. White Wire- Exhaust Channel Thermister
- 4) Dbl. Yellow or Red- Thermister connected to roasting chamber wall
- 5) Red/Black mix- DC Fan power connection
- 6) Empty- Extra DC fan socket

#### Larger Clips

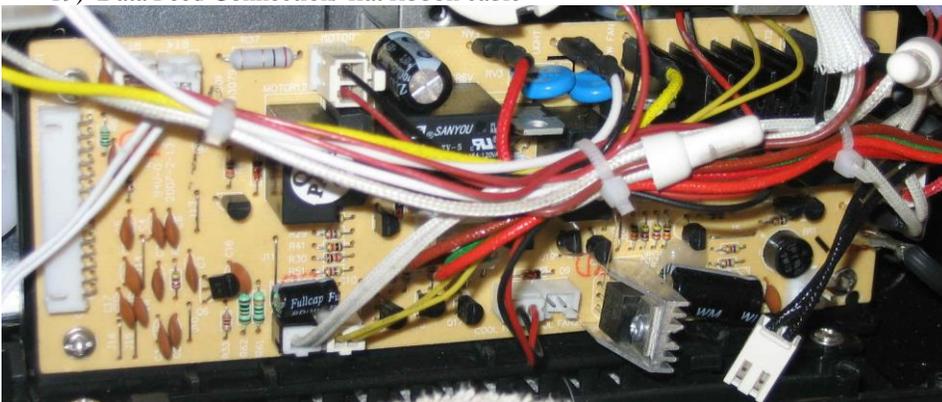
- 7) Black/Red mix - Power to DC Motor (cylinder)
- 8) Red/Burgundy/Green- Power from Transformer
- 9) Dbl. Black- Transformer out
- 10) Dbl. Red- Transformer in

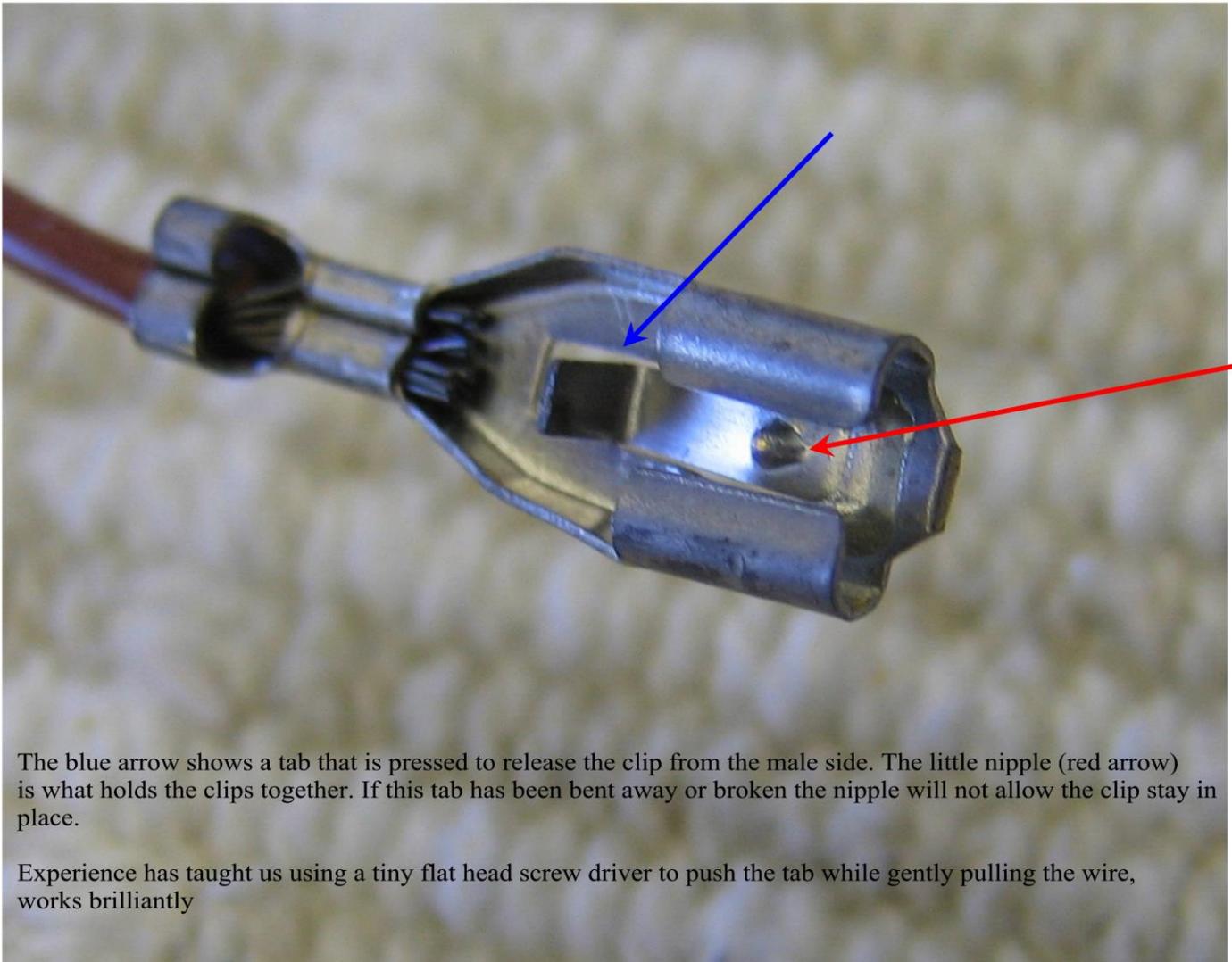
#### Single Slip Female

- 11) Red- Scroll Fan ( bean cooling fan)
- 12) Black- shiny- Interior Light
- 13) Yellow- Draw Fan (exhaust-squirrel fan)
- 14) Brown- Afterburners
- 15) Blue- Quartz Elements (roasting)
- 16) Black w/ covered clip –Power feed in (power L)
- 17) Dbl. White- thermal sheath (common) - **Positions 17 & 18 are interchangeable with no ill effects.**
- 18) Black- bare clip (power N) - **Positions 17 & 18 are interchangeable with no ill effects.**

#### Large Clip:

- 19) Data Feed Connection/ flat ribbon cable





The blue arrow shows a tab that is pressed to release the clip from the male side. The little nipple (red arrow) is what holds the clips together. If this tab has been bent away or broken the nipple will not allow the clip stay in place.

Experience has taught us using a tiny flat head screw driver to push the tab while gently pulling the wire, works brilliantly