

INSTALLATION

REPLACEMENT

VALOR BATTERY FAN CIRCUIT BOARD



INSTALL MANUAL

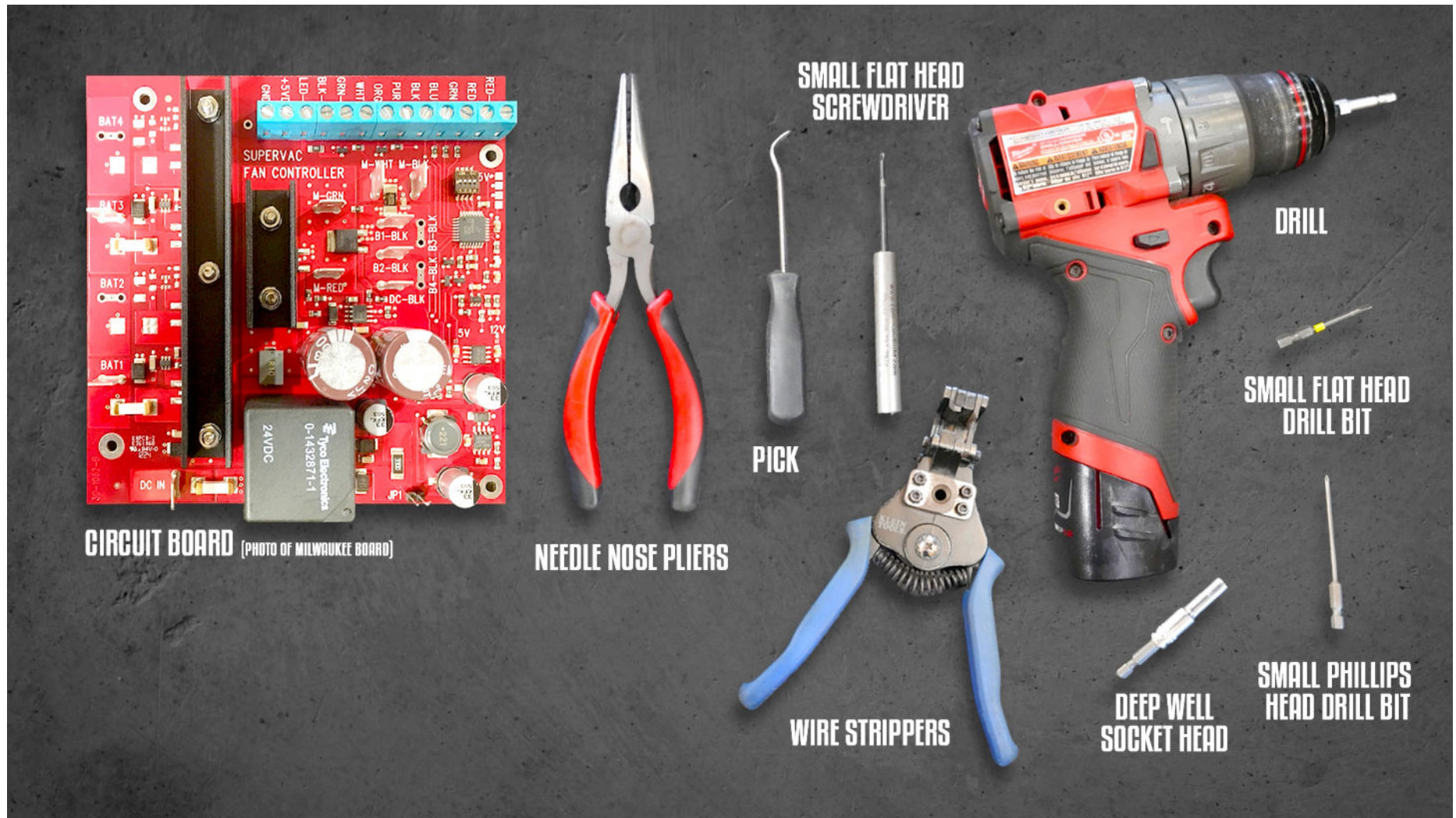
This manual covers the replacement and installation of the circuit board in a Super Vac Valor series battery-powered ventilation fan.

Please consult your circuit board kit for parts.



For additional instruction, view installation video at bit.ly/ValorSeriesCircuitBoard

PARTS AND TOOLS

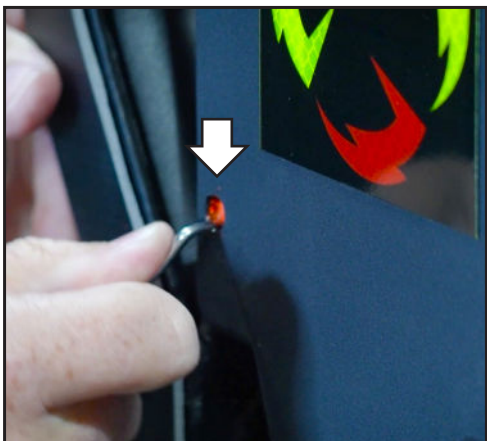


STEP 1:

Remove control box cover plate.



Remove (7) screws from cover plate using Phillips head screw driver or drill bit.



Must remove tamper proof seal from socket using pick or flat-head screw driver.

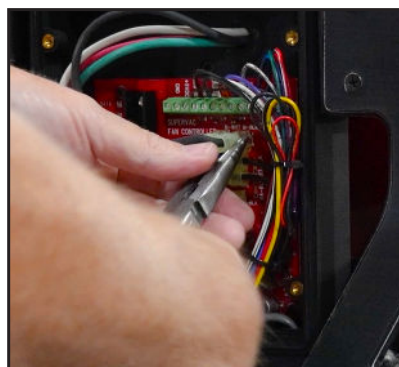
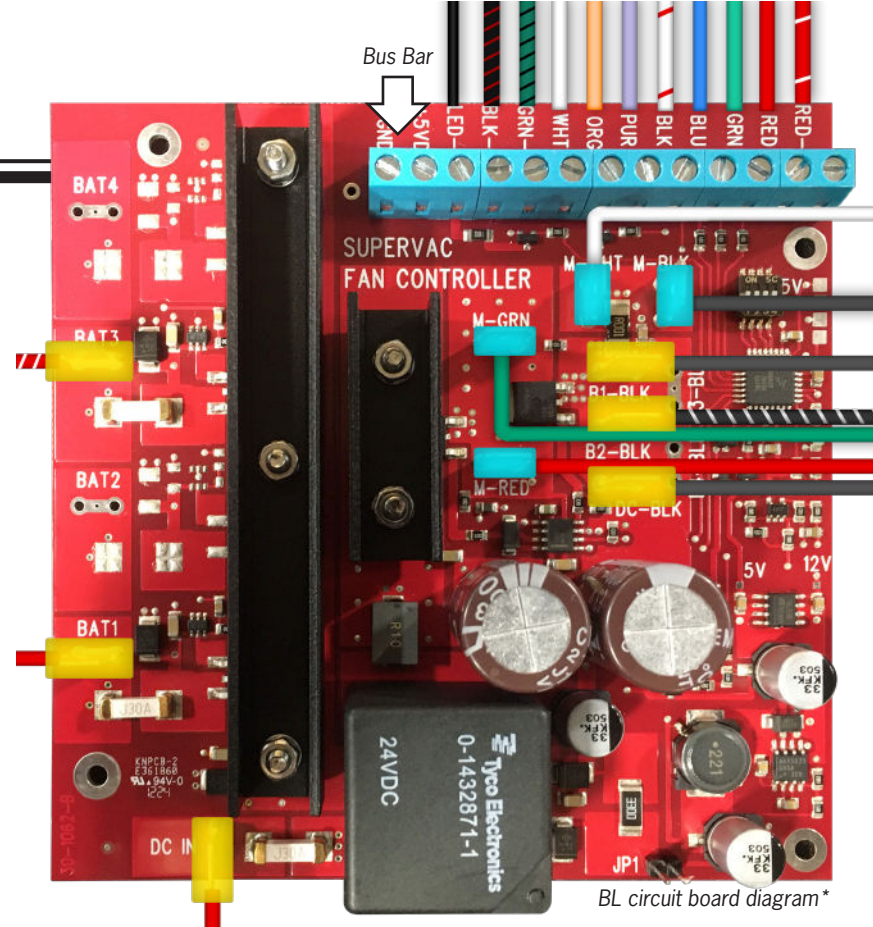
STEP 2:

Disconnect Wires:

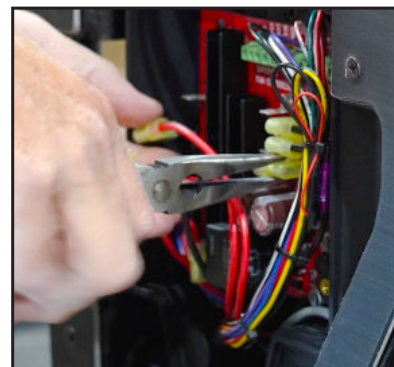


TIP: Take a reference photo of circuit board prior to removing wires.

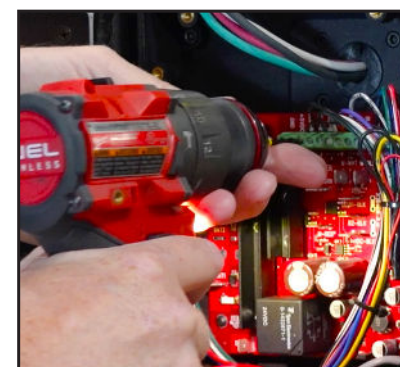
**Wire colors may vary on: BH - HURST, BW - M28 models.*



Disconnect power wires using needle-nose pliers.



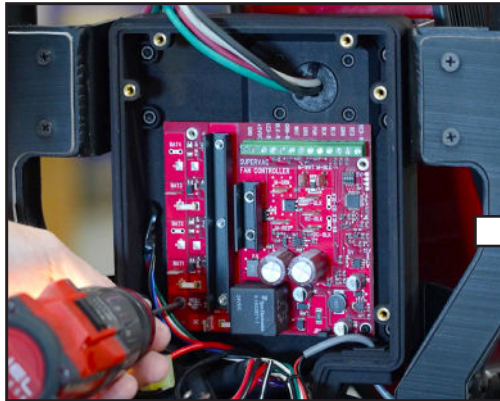
Disconnect battery wires using needle-nose pliers.



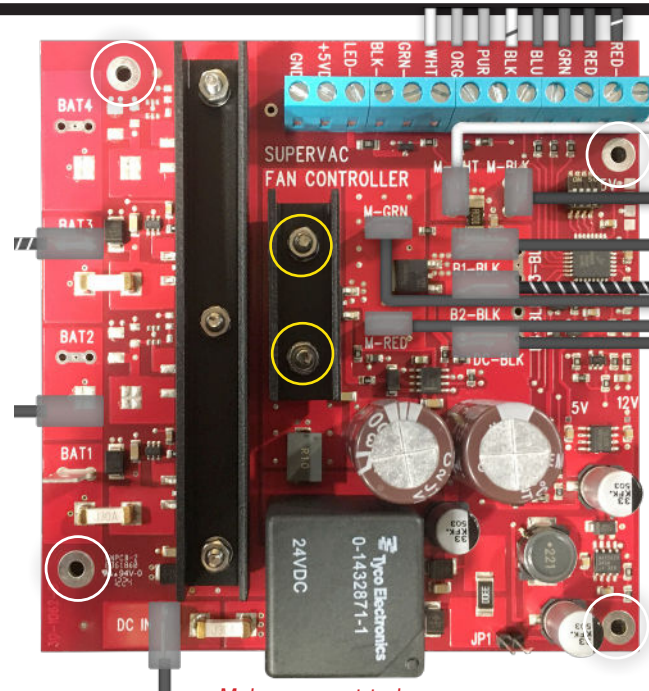
Disconnect little wires from bus bar using flat-head screwdriver or drill bit. Pull wire out of the top.

STEP 3:

Remove circuit board.



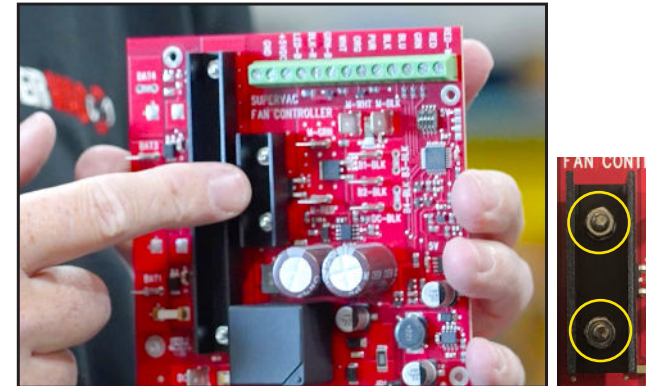
Unfasten (4) bolt heads using Phillips-head screwdriver or drill bit.



Make sure not to lose screws or spacers.

STEP 4:

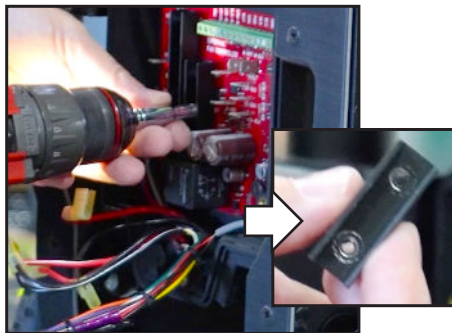
Prepare new circuit board.



Milwaukee units only: Remove heat sink nut heads from circuit board using deep well socket drill bit.

STEP 3A:

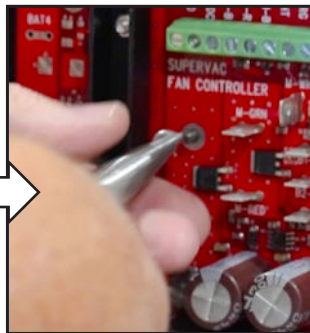
Milwaukee units only:



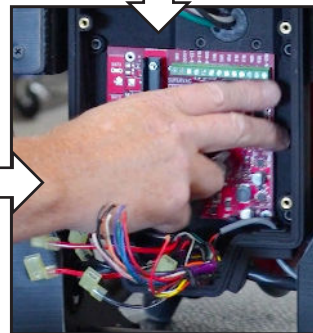
Remove heat sink using deep well socket head.

STEP 3B:

Milwaukee units only:



Remove heat sink spacers using needle-nose pliers.



Pull out circuit board.

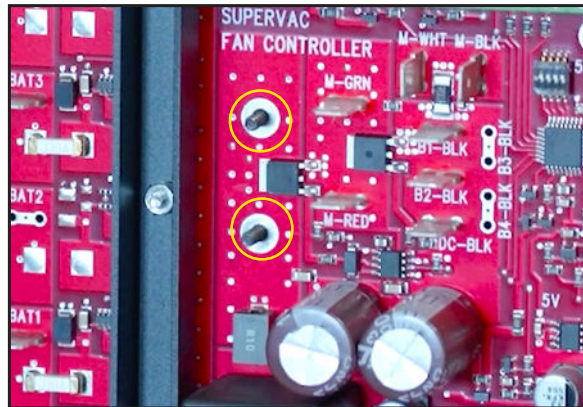


Loosen bus bar screw heads using a small flat-head screwdriver in order to get wires in.

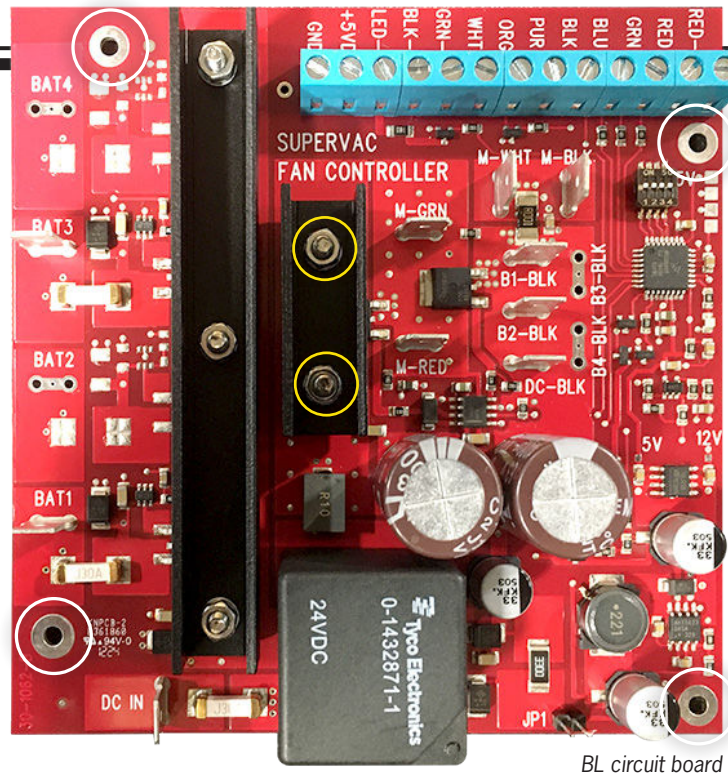
To order a new circuit board or any other corresponding parts, call 1-800-525-5224.

STEP 5:

Align new circuit board holes to control box pegs.

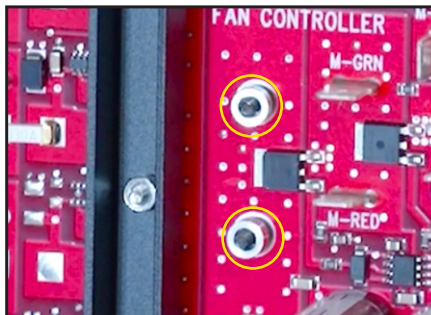


Milwaukee units only: First align heat sink holes to control box pegs.



STEP 5A:

Milwaukee units only:



Replace pre-existing heat sink spacers using needle-nose pliers.

STEP 5B:

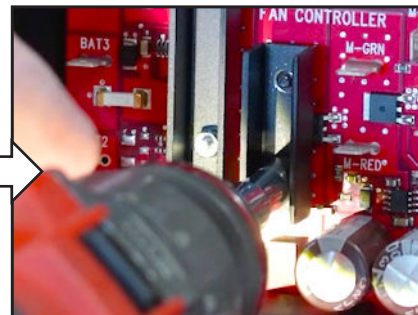
Milwaukee units only:



Replace heat sink.

STEP 5C:

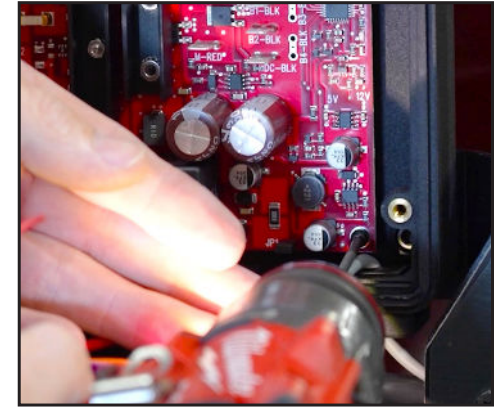
Milwaukee units only:



Loosely reconnect heat sink locking nuts using deep well socket drill bit. Allow a little play in board in order to align corner bolt heads.

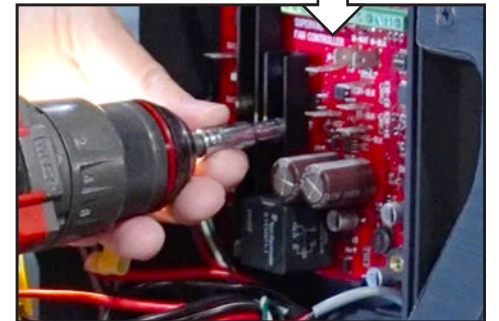
STEP 6:

Reconnect circuit board to control box.



Loosely fasten (4) corner bolt head screws using small Phillips head drill bit or screwdriver. Then go back around and gently snug up each corner.

Milwaukee units only:

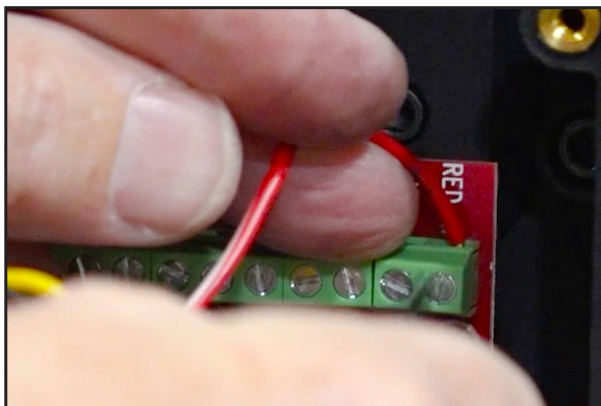


Go back and tighten heat sink nut heads.

Try not to get too overly aggressive when tightening in order to prevent stripping screws or snapping the circuit board.

STEP 7:

Re-wire small wires to bus bar.

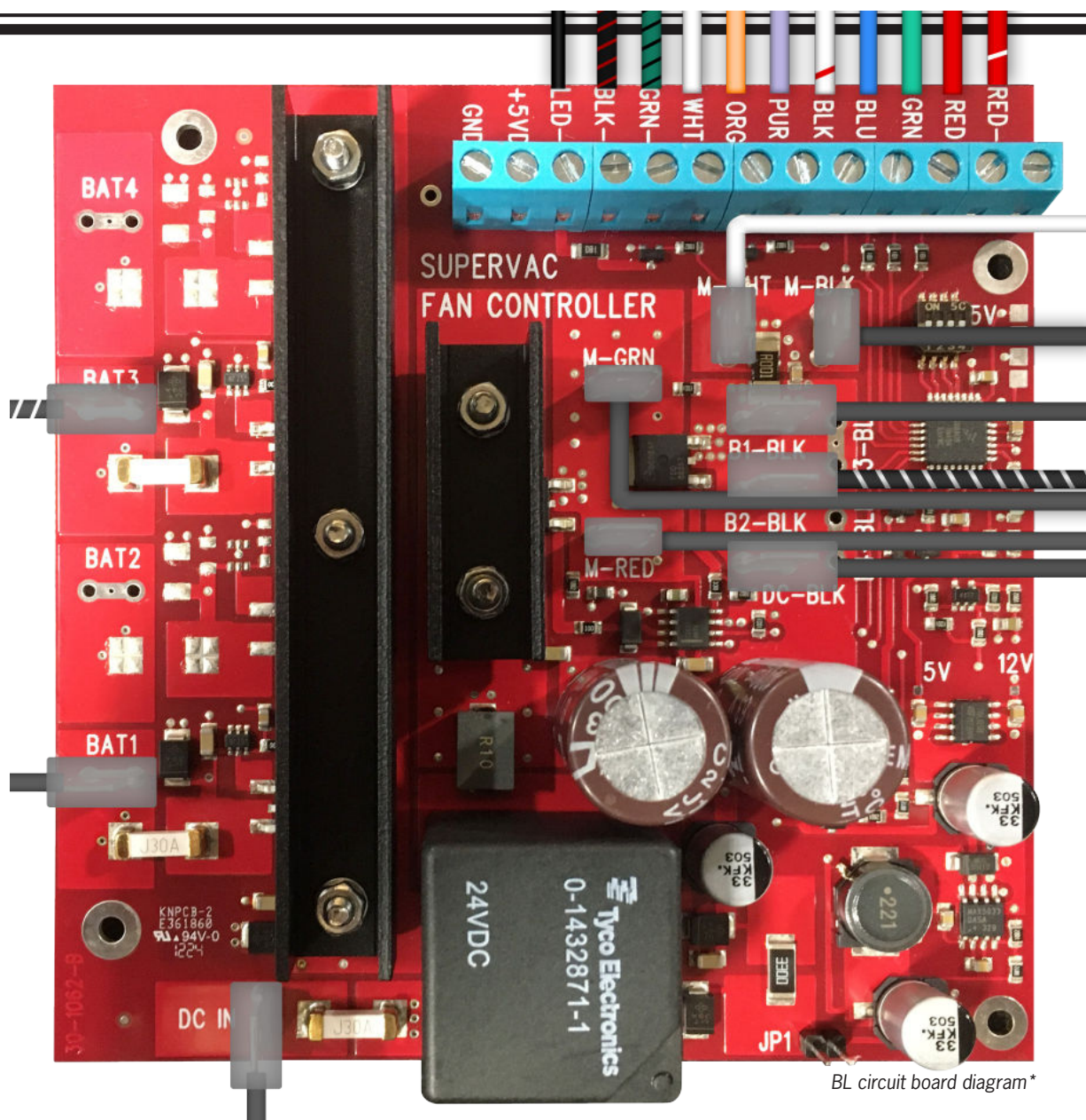


Twist wire ends and re-insert wire in top of bus bar. Use a small flat-head screw driver to tighten in place. *Over tightening can result in stripped screws and/or cracking the bus bar.*

Each wire color corresponds with colors labeled on circuit board except for the “BLK” which is a white wire with red stripe.

RED-W = Red with white line
 RED = Red wire
 GRN = Green wire
 BLU = Blue wire
 BLK = White wire w/red stripe
 PUR = Purple wire
 ORG = Orange wire
 WHT = White wire
 GRN-B = Green wire w/black stripe
 BLK-R = Black wire w/red stripe
 LED-B = Thin black wire

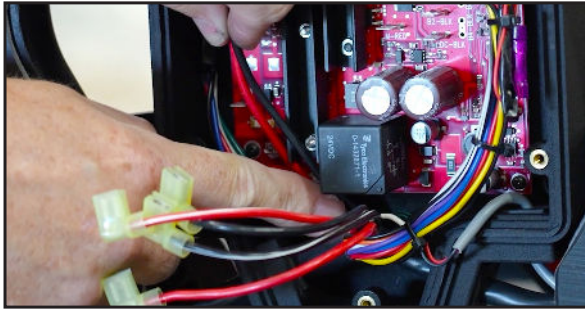
**M28 and HURST models may have different color coding. Suggest taking a reference photo before disconnecting wires.*



BL circuit board diagram*

STEP 8A

Re-connect power wires to circuit board.



Reconnect black and red power supply wires coming from bottom wiring harness:

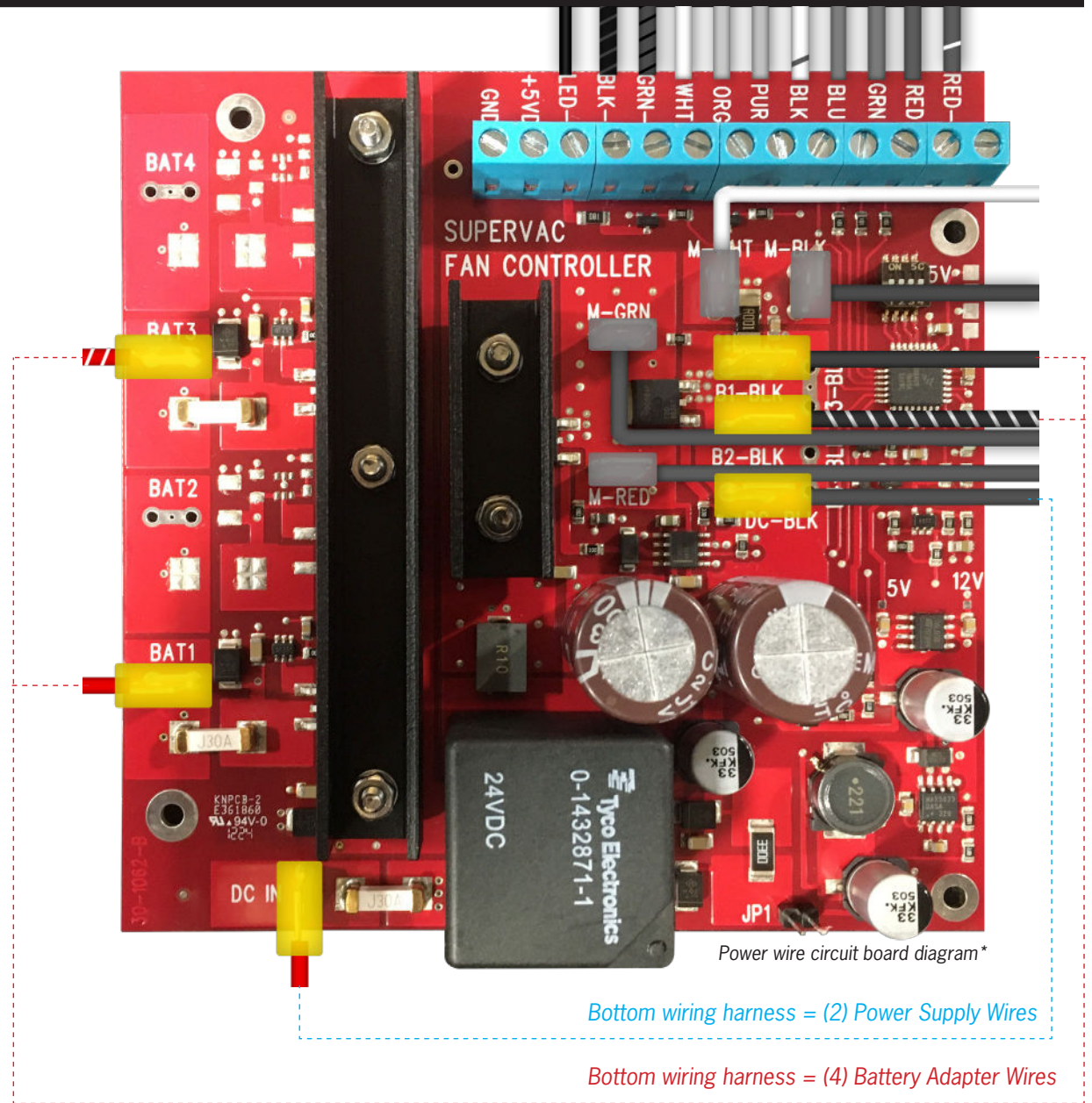
Red wire coming from power harness = "DC IN"
Black wire coming from power harness = "DC-BLK"

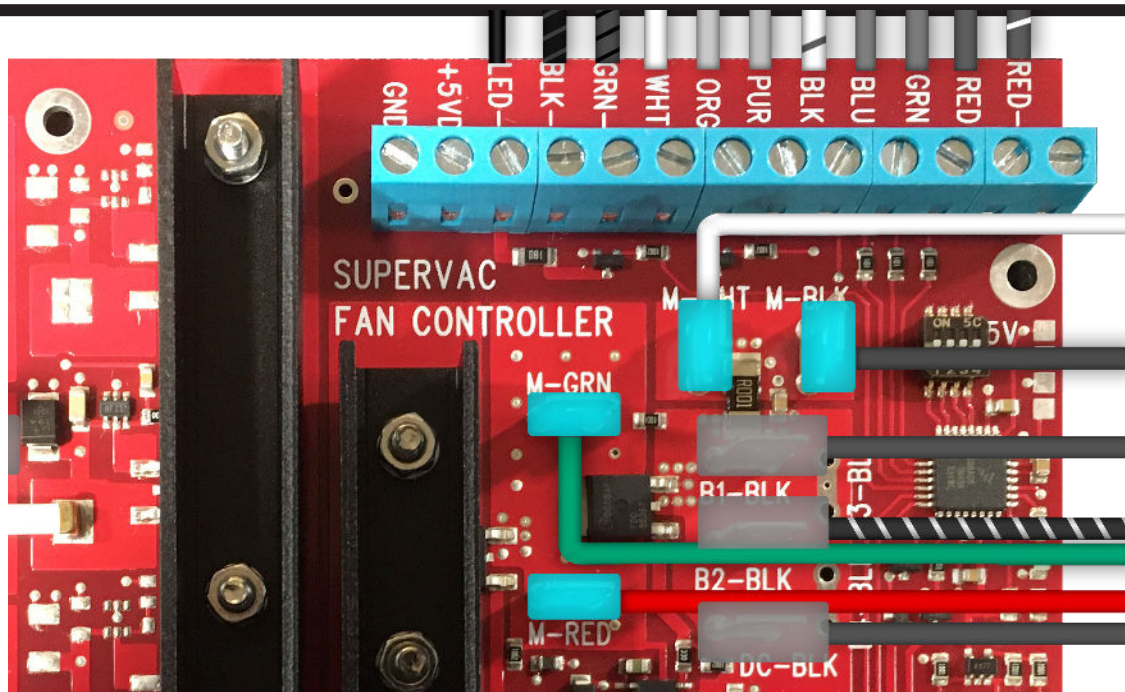
STEP 8B

Re-connect battery wires to circuit board.



Reconnect battery adapter wires:
Solid Red = BAT 1
Solid Black = B1-BLK
Red w/white stripe = BAT 3
Black w/white stripe = B2-BLK





Motor wire circuit board diagram*

STEP 8C:

Re-connect motor wires to circuit board.



Reconnect motor wires from top wiring harness:

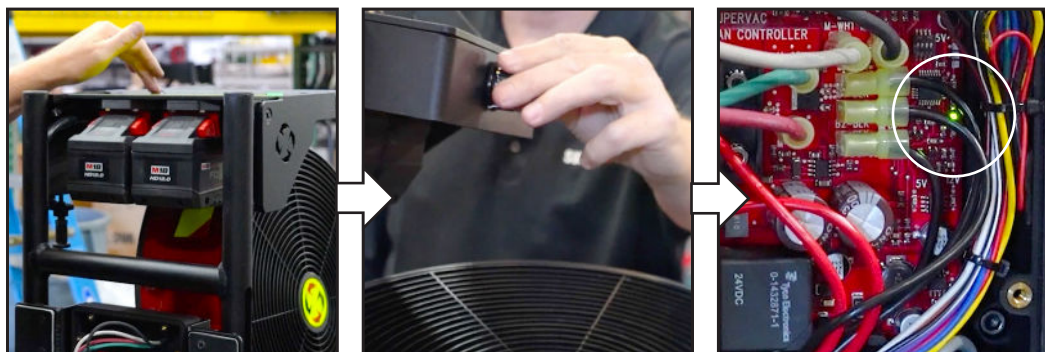
Black wire = M-BLK
White wire = M-WHT
Green wire = M-GRN
Red wire = M-RED

**M28 and HURST models may have different color coding. Suggest taking a reference photo before disconnecting wires.*

Top wiring harness = (4) Motor Wires

STEP 9:

Test fan before closing control box.



Insert batteries, test power, potentiometer and LED light. A green light should be blinking on the circuit board. Remove batteries and plug in to outlet to test shore power.

STEP 10:

Re-apply cover plate.



Check edges to make sure no wires are wedged between the circuit board cover plate and control box.

Re-insert (7) screws from cover plate using Phillips head screw driver or drill bit.



For parts or service information, contact:

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Fort Collins, CO 80524

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970-297-7100

Fax: 970-297-7099

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