

# Instructions, 3x4 Control Board Upgrade Kit



Extend Holding Bin  
EHB Series

## Kit # 540-1476S Parts List



1x Side Panel with  
Firmware #:  
93-266, 540-1472S  
(U.S.)  
93-268, 540-1474S  
(Canada)



Cable Ties  
(3x)



USB Drive  
(1x)

## Tools Required



SCREWDRIVER- #2 PHILLIPS



NUTDRIVERS- 11/32"



WIRE TIE CUTTERS

**For qualified service personnel only.**

**Use only the specified tools to perform the enclosed operation.**

**Do not cut, solder or modify any wires or any components of the kit.**

**Contact local authorities regarding the disposal of electrical and electronic components.**

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<b>Upgrade Kit</b>	<b>Used on Model</b>
540-1476S	EHB34, 34A
540-1477S	EHB34CE, 34ACE, EHB34-AU, 34A-AU, EHB34A-BR, EHB34A-EAC, EHB34ACE-AB, DHB-BK34FCE, DHB-BK34AFCE
540-1478S	EHB34-CA, 34A-CA

# Instructions, 3x4 Control Board Upgrade Kit

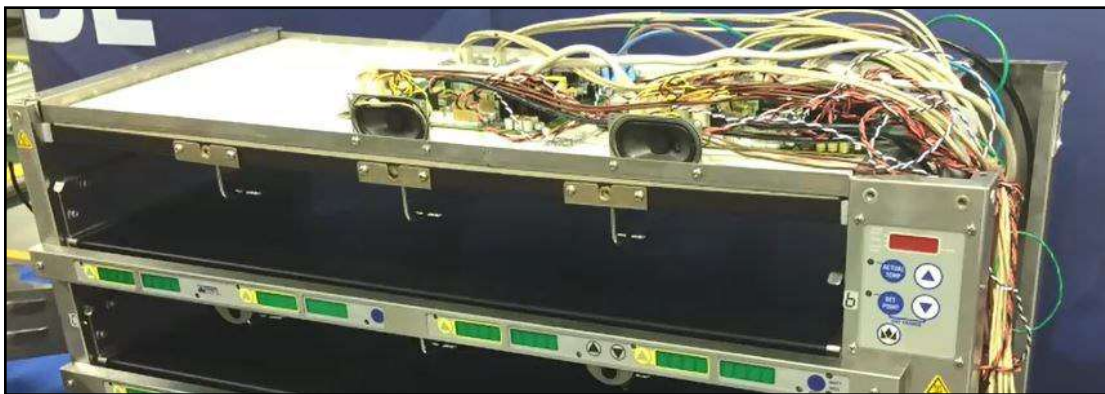


Extend Holding Bin  
EHB Series

- 1 Flip the power switch **OFF** "O", and **unplug the power cord** from the outlet.
- 2 Use a Phillips screwdriver to remove all screws from top cover. Keep screws for re-assembly later.



- 3 Remove the side panels then top cover, and put aside.



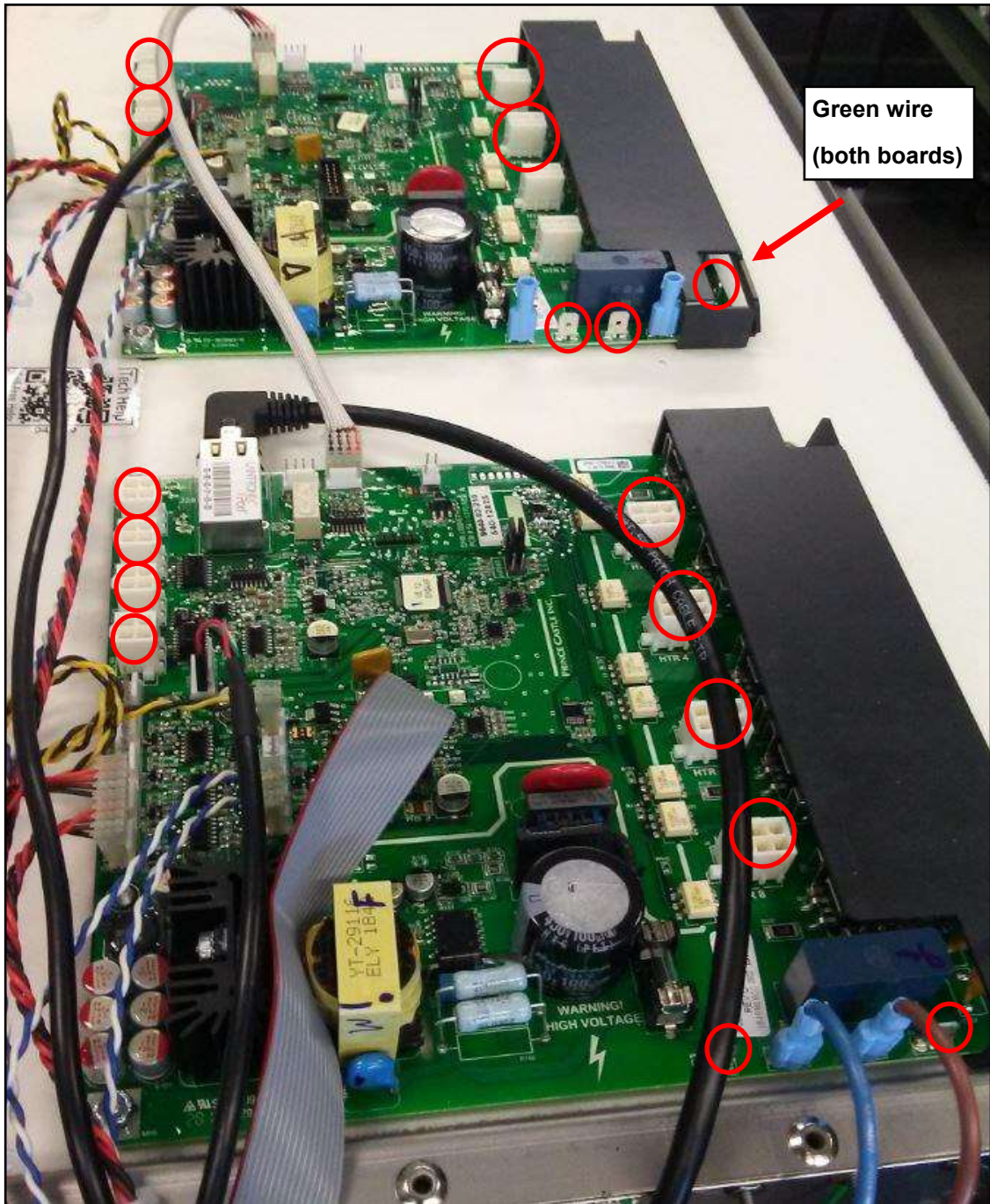
# Instructions, 3x4 Control Board Upgrade Kit



Extend Holding Bin  
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Remove the encircled connections from the boards currently in the unit.



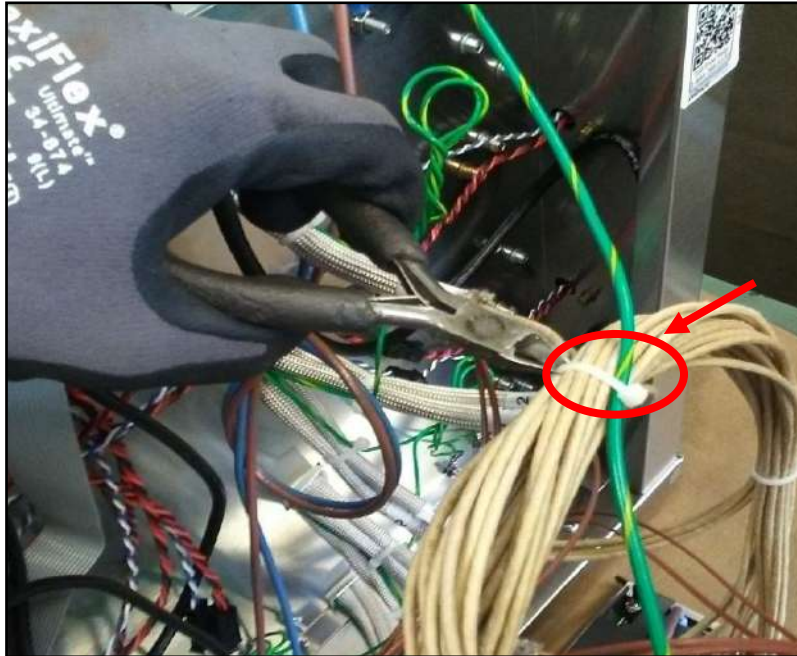
# Instructions, 3x4 Control Board Upgrade Kit



Extend Holding Bin  
EHB Series

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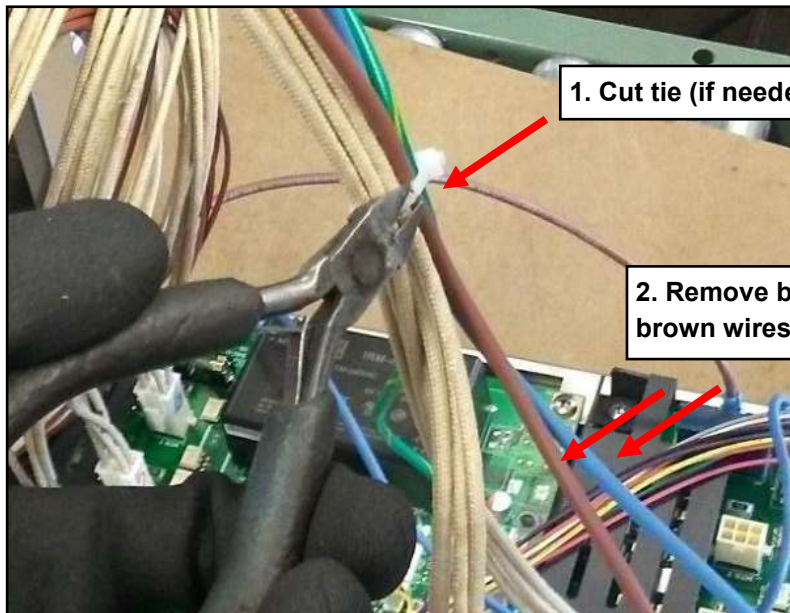
Cut the zip tie at the topmost zip tie along tan wires.



\*If a wire is cut or damaged, DO NOT attempt repair. Please call Prince Castle tech. support 800-722-7853.

6

Cut any remaining zip ties on the tan wire bundle. Put aside the **brown** and **blue** wires that are **not connected** to anything.



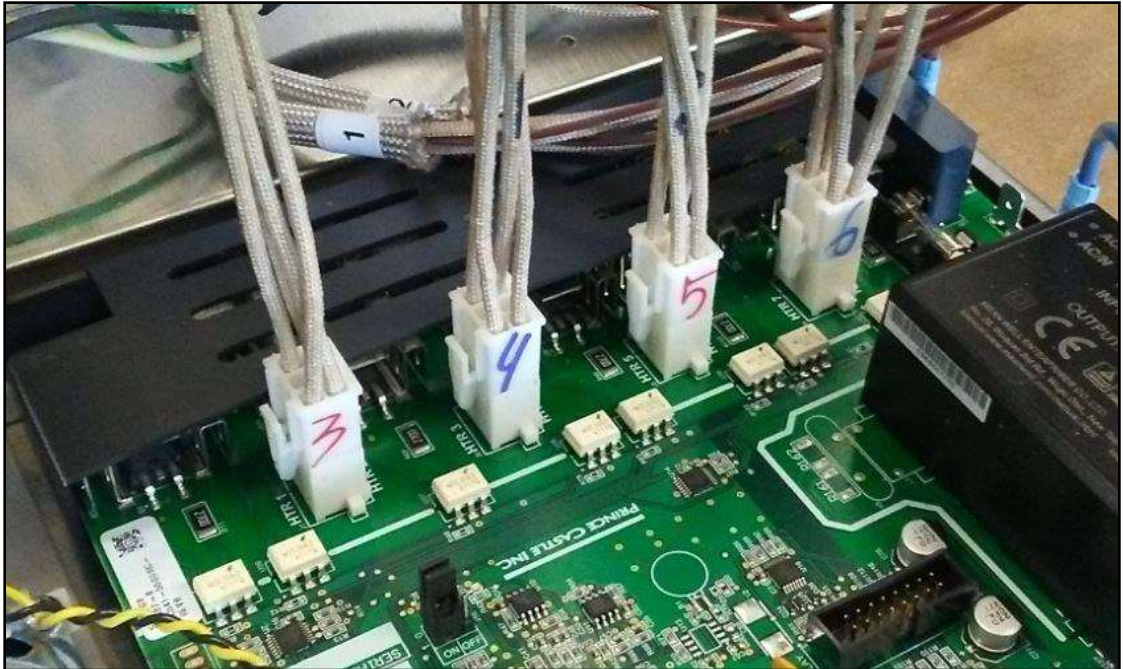
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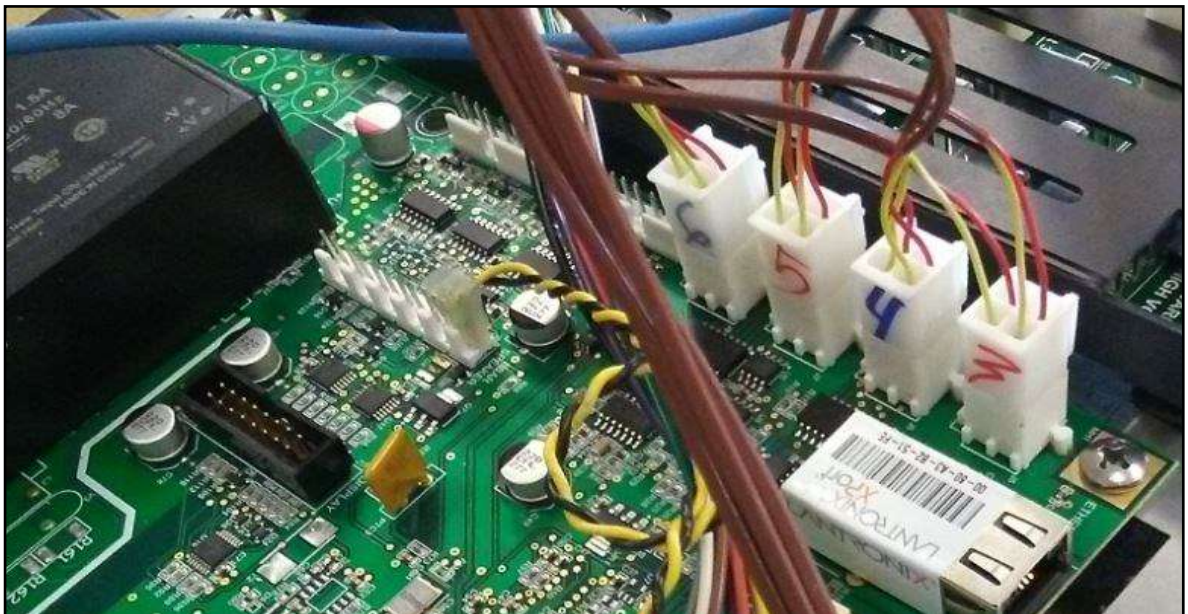
7

Connect the **tan** heater wires “3” through “6” to the **big side panel board** as shown.



8

Cut the zip tie joining the **brown** thermocouple wires “3” through “6”; then connect them to the **big side panel board** in the ports shown.



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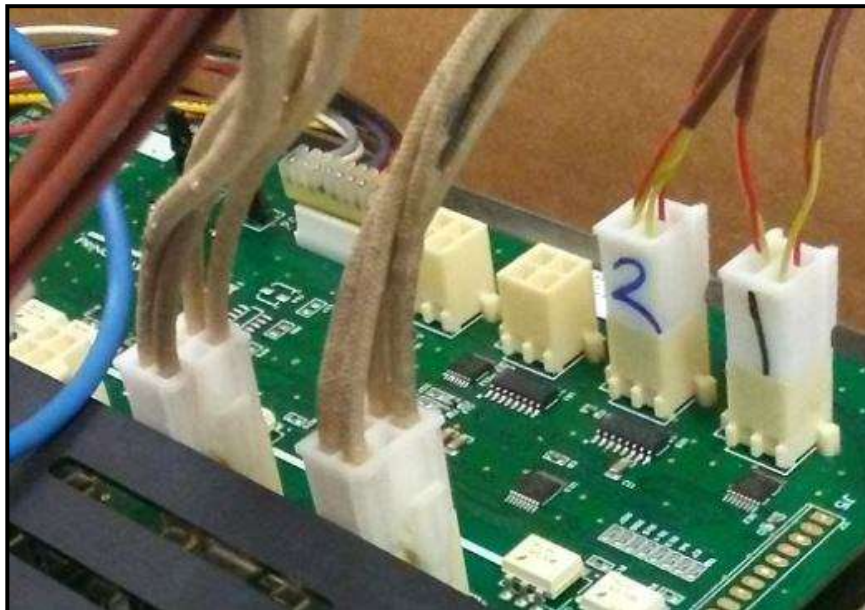
9

Connect the **tan** heater wires “1” and “2” to the **small side panel board** as shown.



10

Repeat for the **brown** thermocouple wires “1” and “2” as shown.



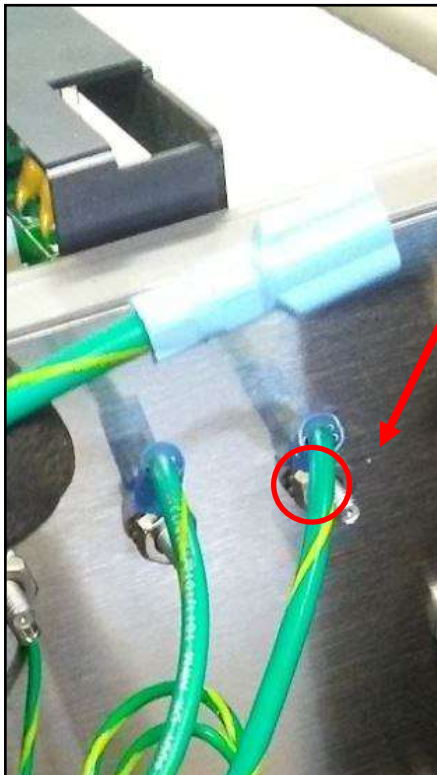
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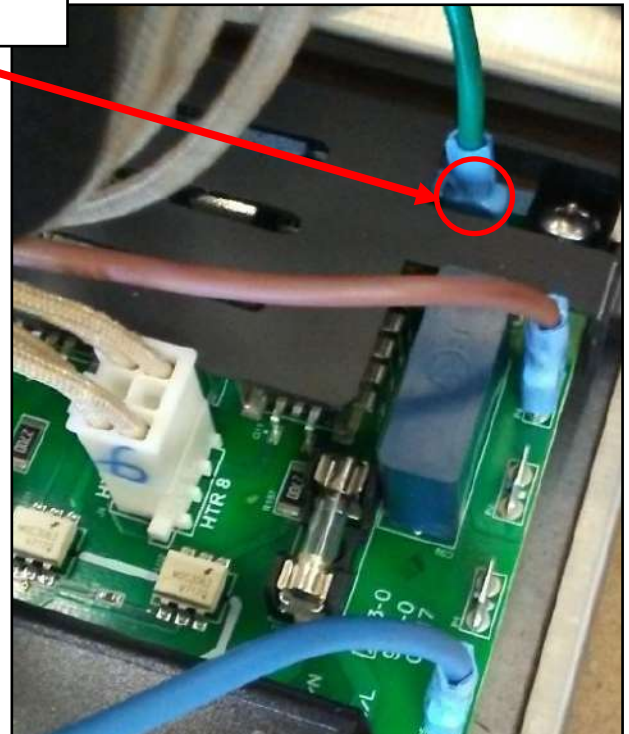
Extend Holding Bin  
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Connect the **long green wire** on the sheet metal cavity to the ground pin of the **big side panel board**.

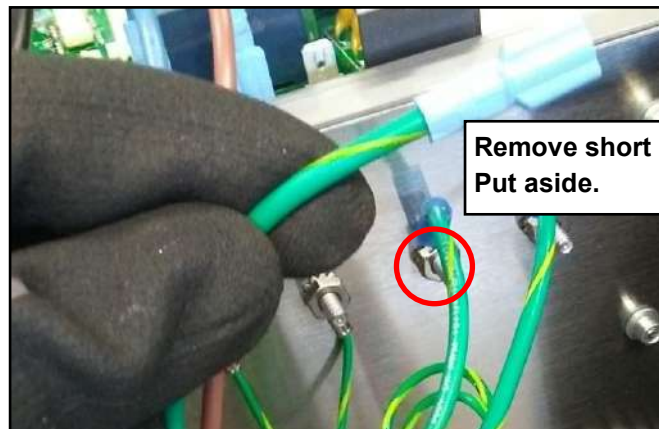


New connection,  
green wire



12

Use an **11/32 nut driver** to remove the **short green wire** next to the one from the previous step.



Remove short green wire.  
Put aside.



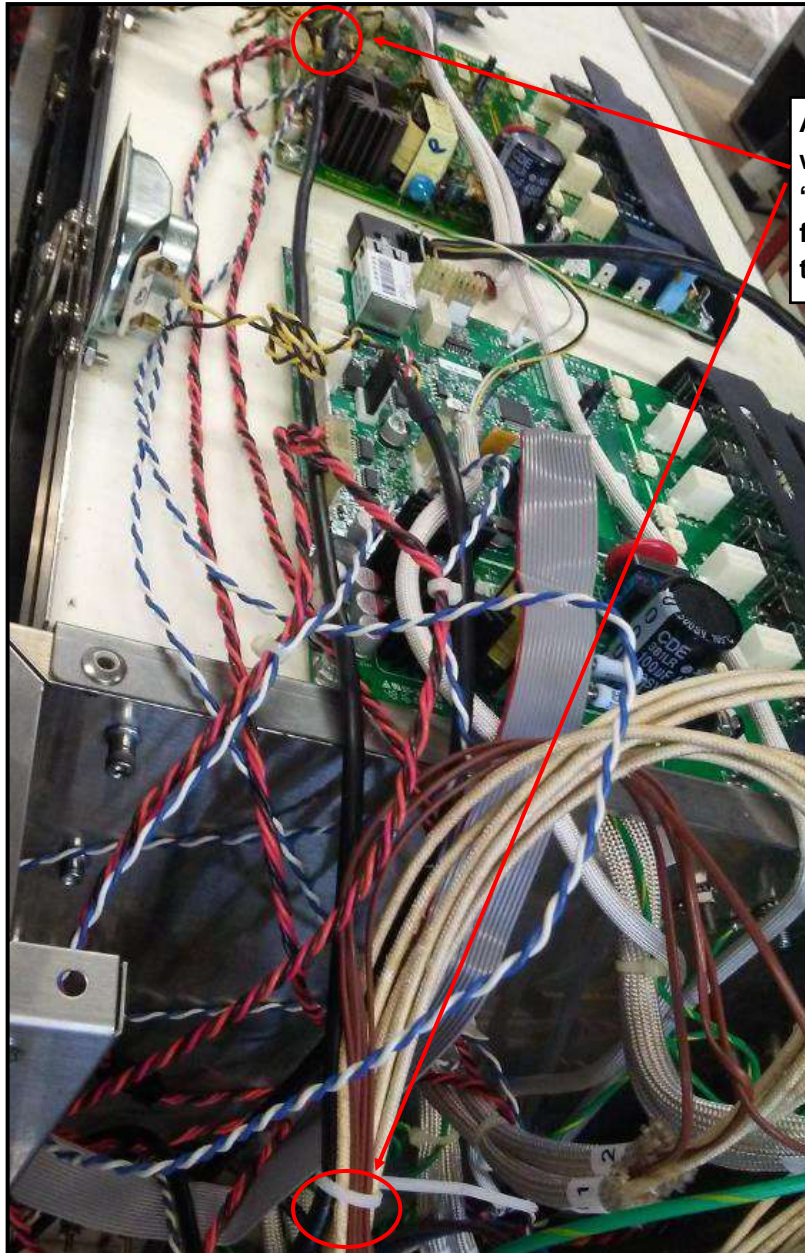
# Instructions, 3x4 Control Board Upgrade Kit



Extend Holding Bin  
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13A

Use a cable tie from the kit to bundle the tan and brown wires labeled "1" and "2" to the **black USB cable** connected to the **far board on top**.



Anchor tan and brown wires labeled "1" and "2" to cable running from "BOARD 2" slot to far board on top.

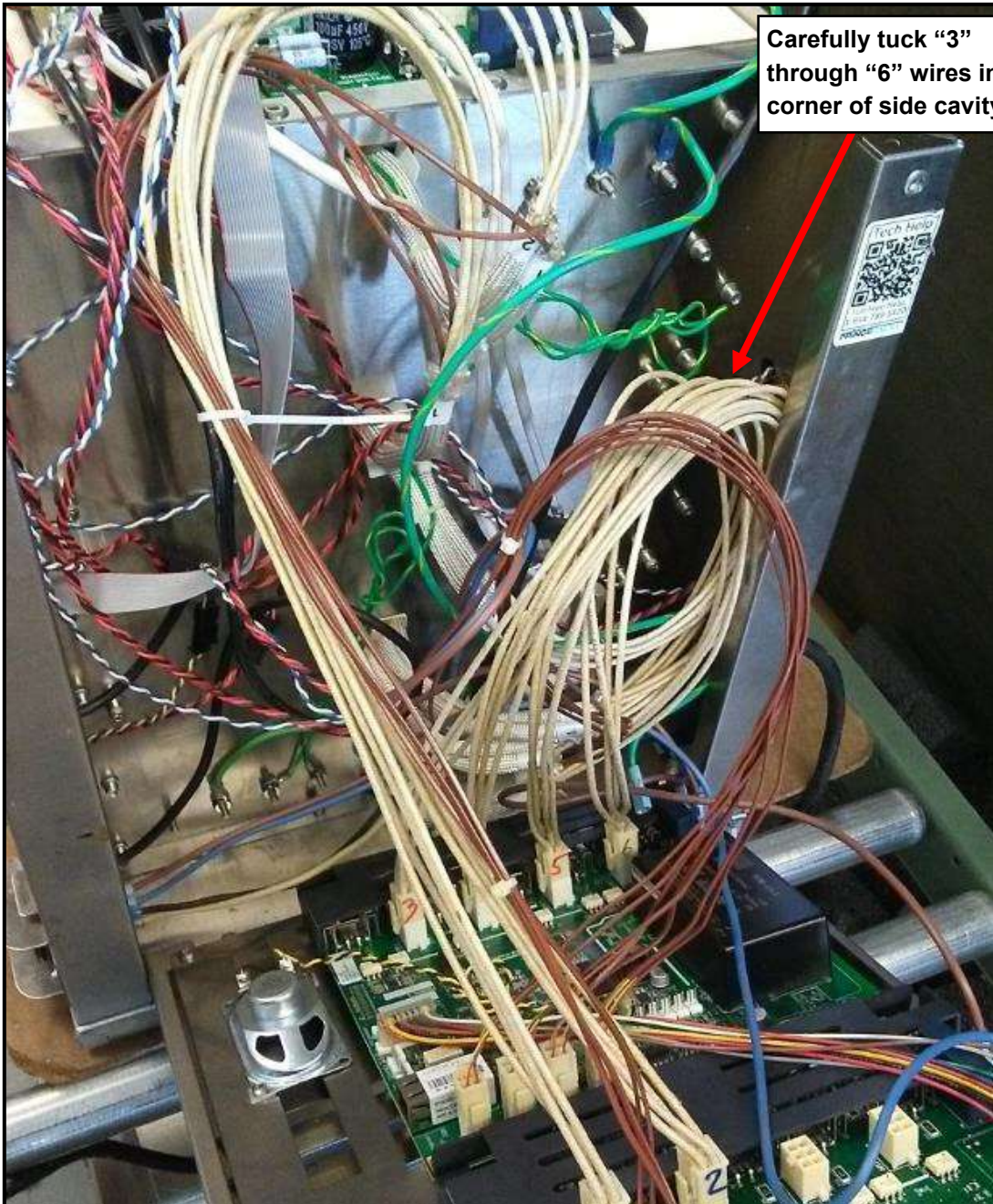
# Instructions, 3x4 Control Board Upgrade Kit



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13B

Carefully tuck the tan and brown wires labeled "3" through "6" into the side cavity corner as shown.



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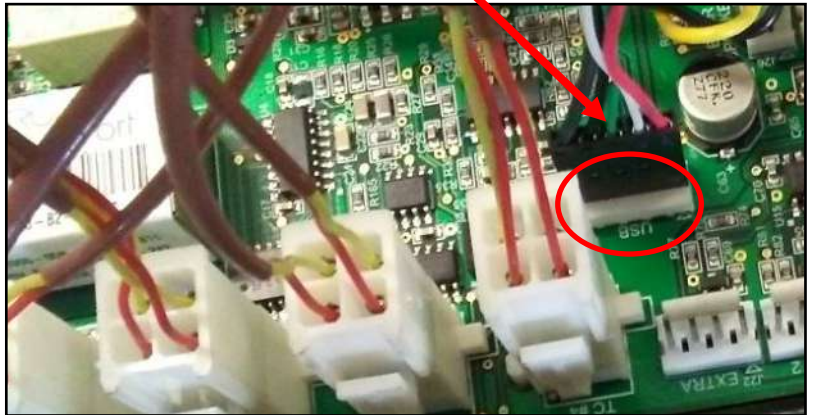
Extend Holding Bin  
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Disconnect the **USB cable** from the **closer board on top**, and connect to the pins labeled **"USB"** on the **big side panel board**.

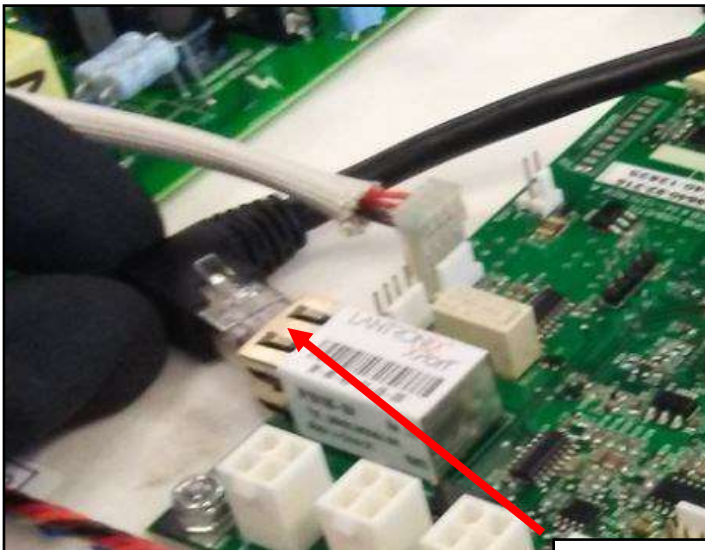
Closer USB wire to big side panel board

**IMPORTANT:** Note orientation of connector shown; red wire facing toward center of board



15

Disconnect the **RJ45 cable** from the **closer board on top**, and connect to the pins labeled **white Lantronix port** on the **big side panel board**.



RJ45 cable to big side panel board

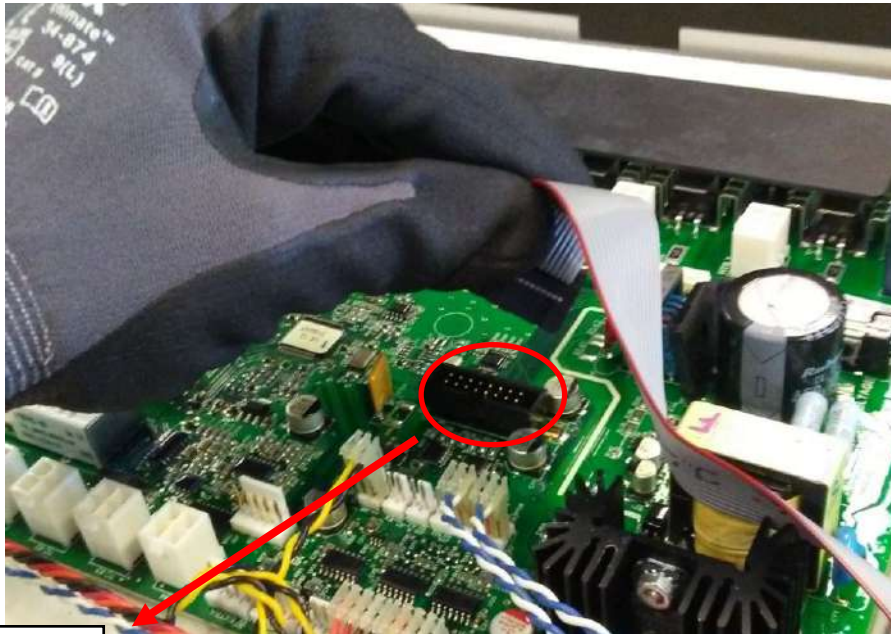
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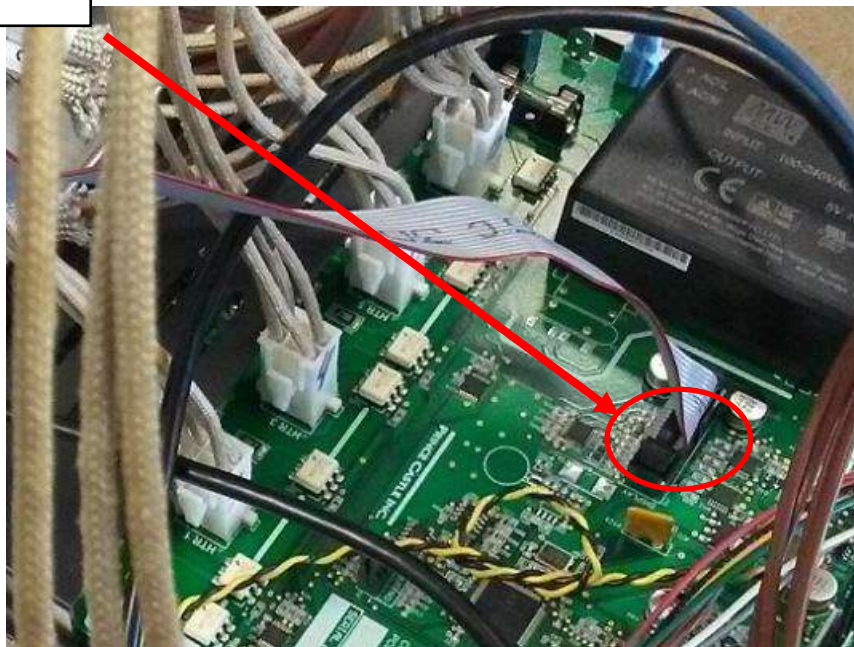
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Disconnect the **ribbon cable** from the closer board on top, and connect to the ribbon cable port on the **big side panel board**.



Ribbon cable to big side panel board



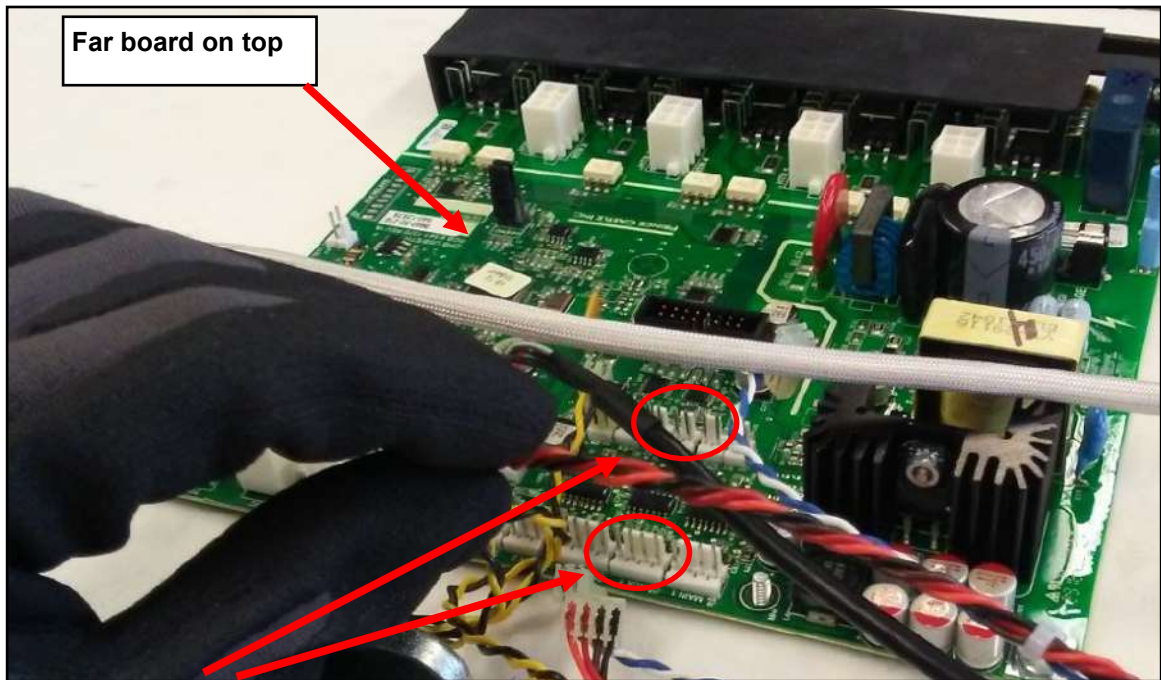
# Instructions, 3x4 Control Board Upgrade Kit



Extend Holding Bin  
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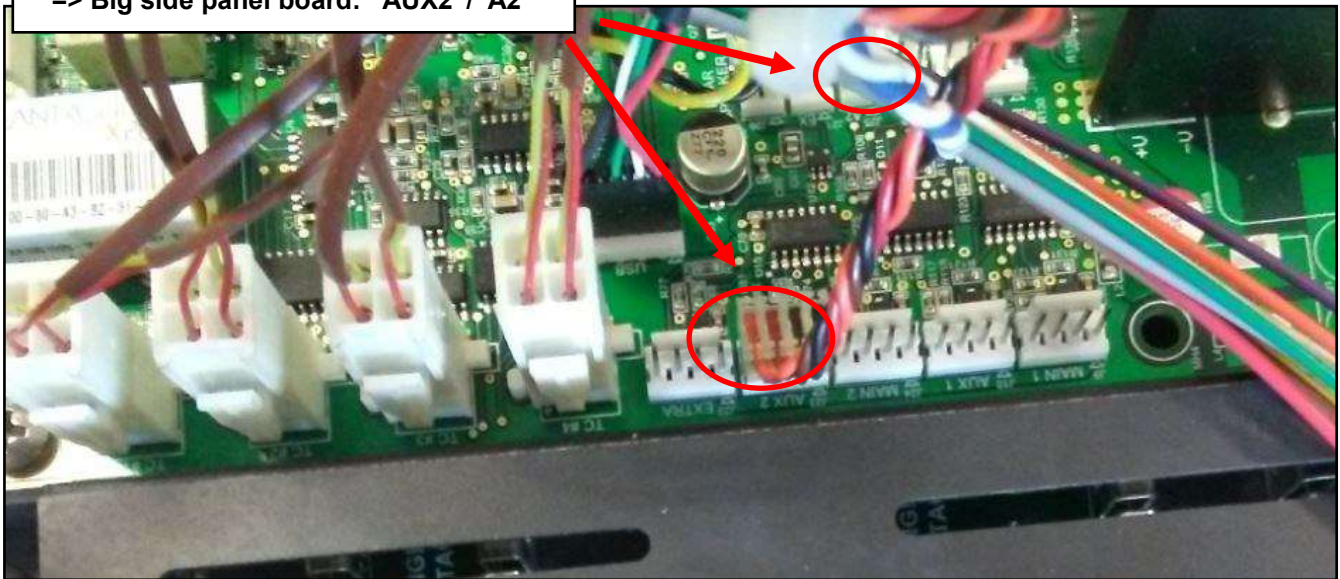
17

From the **far board on top**, disconnect the red/orange and blue/white braided wires from pin **"AUX1"/"A1"**. Then connect to **"AUX2"/"A2"** on the **big side panel**



Far board on top

Top board: "AUX1"/"A1"  
=> Big side panel board: "AUX2"/"A2"



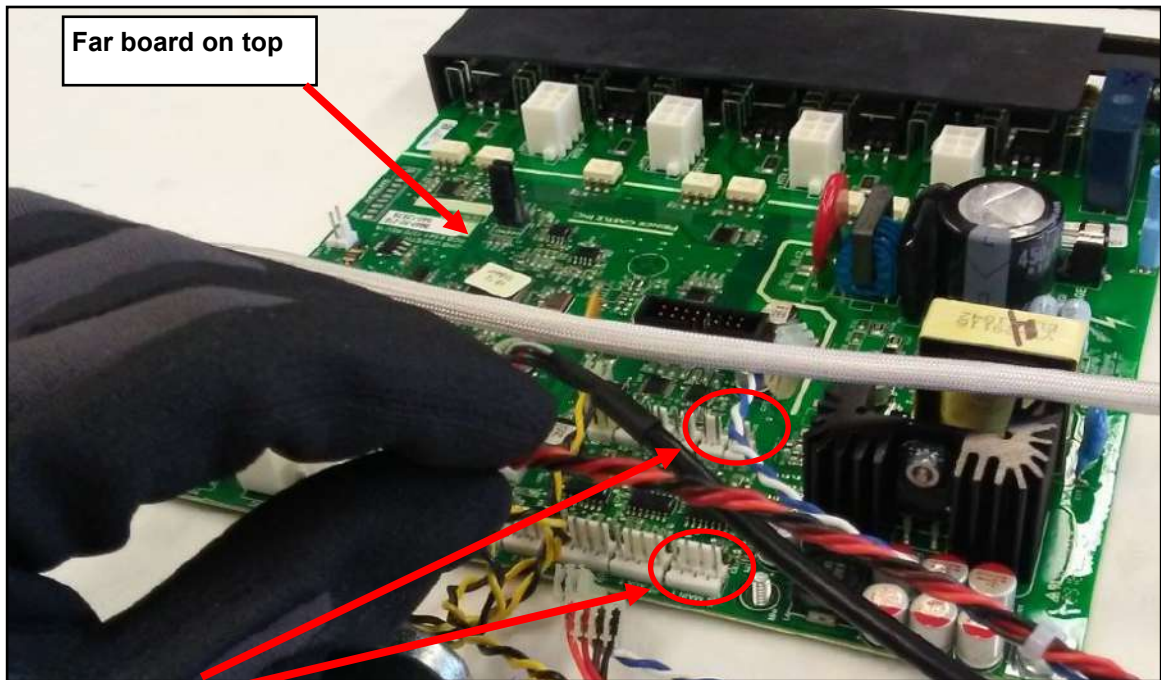
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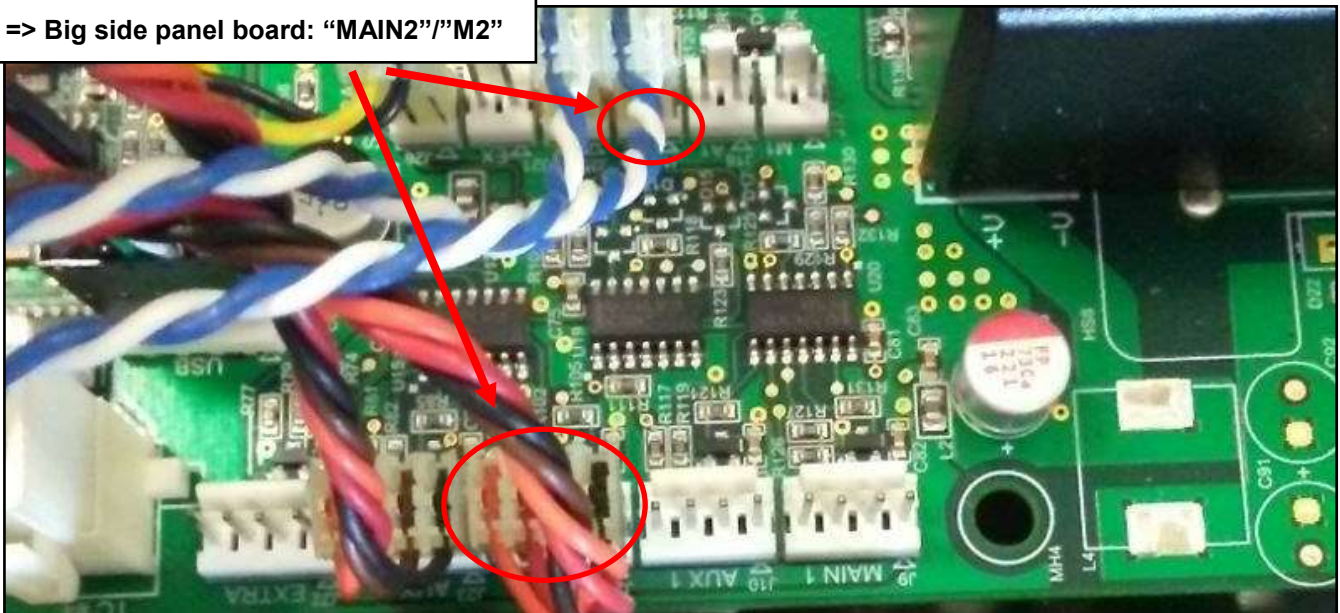
18

From the **far board on top**, disconnect the red/orange and blue/white braided wires from pin **"MAIN1"/"M1"**. Then connect to **"MAIN2"/"M2"** on the **big side panel**



Top board: **"MAIN1"/"M1"**

=> Big side panel board: **"MAIN2"/"M2"**

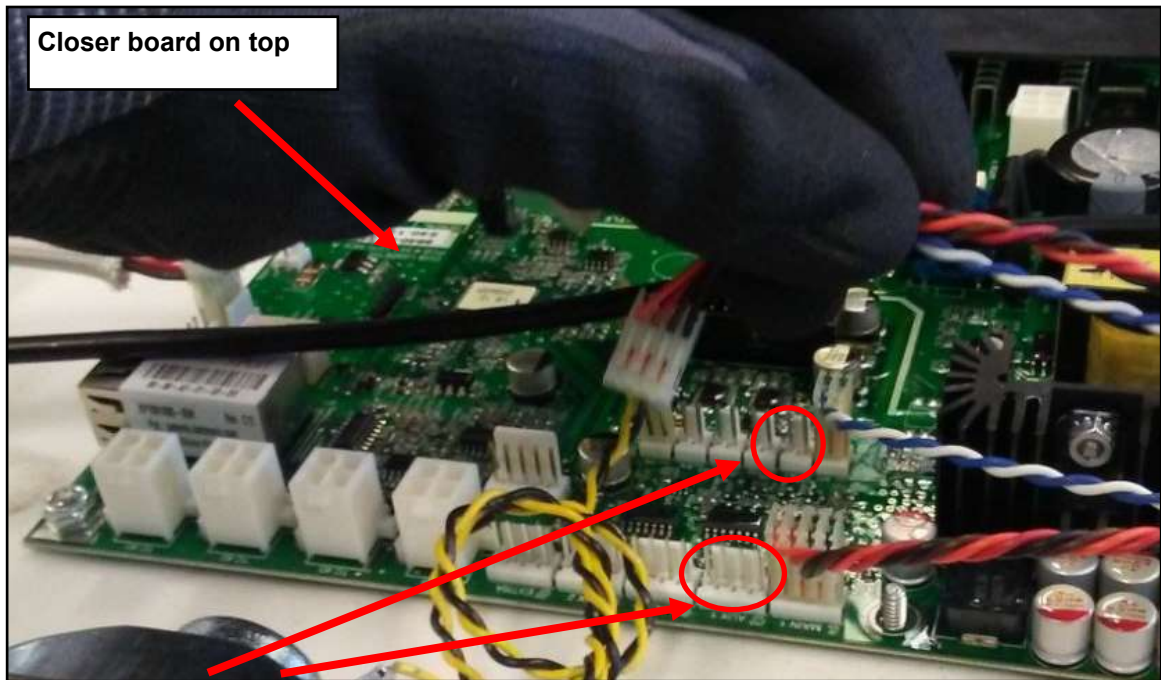


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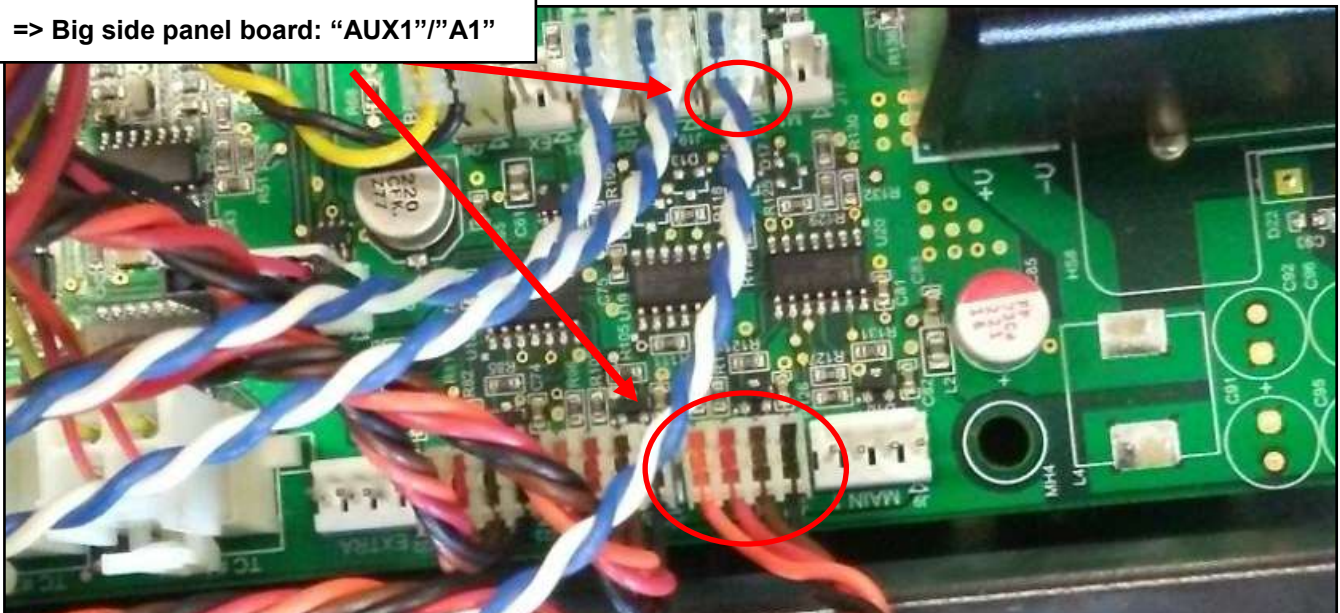
Extend Holding Bin  
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- 19 From the **closer board on top**, disconnect the red/orange and blue/white braided wires from pin “AUX1”/”A1”. Then connect to “AUX1”/”A1” on the **big side panel**



Top board: “AUX1”/”A1”

=> Big side panel board: “AUX1”/”A1”

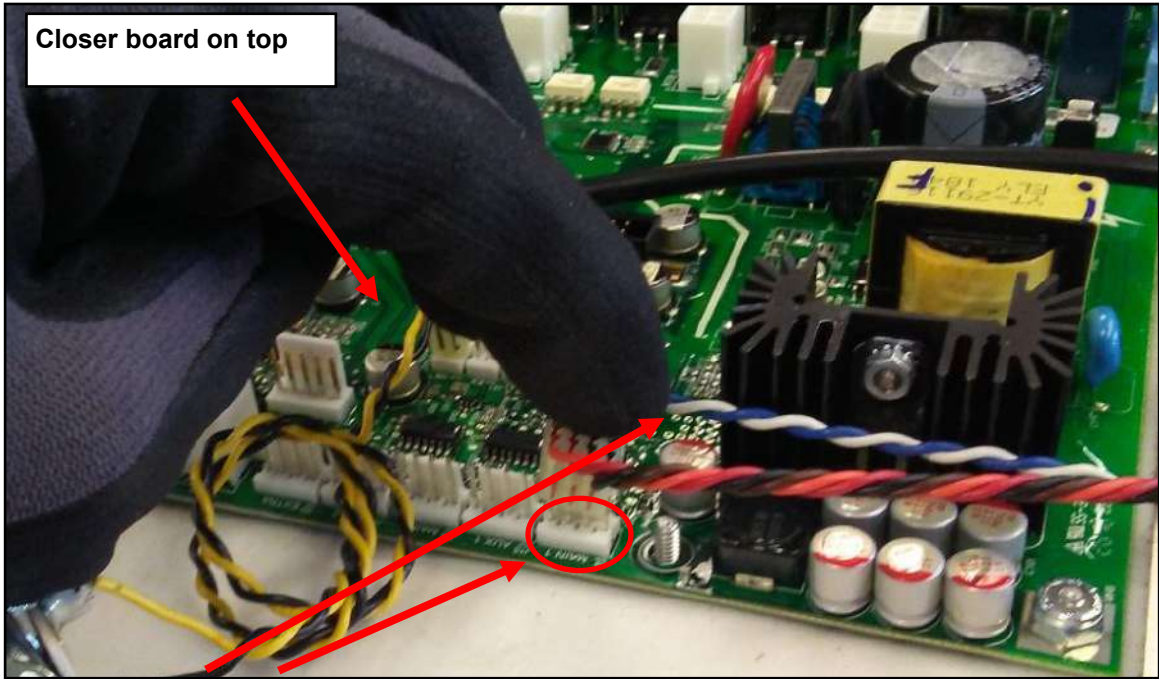


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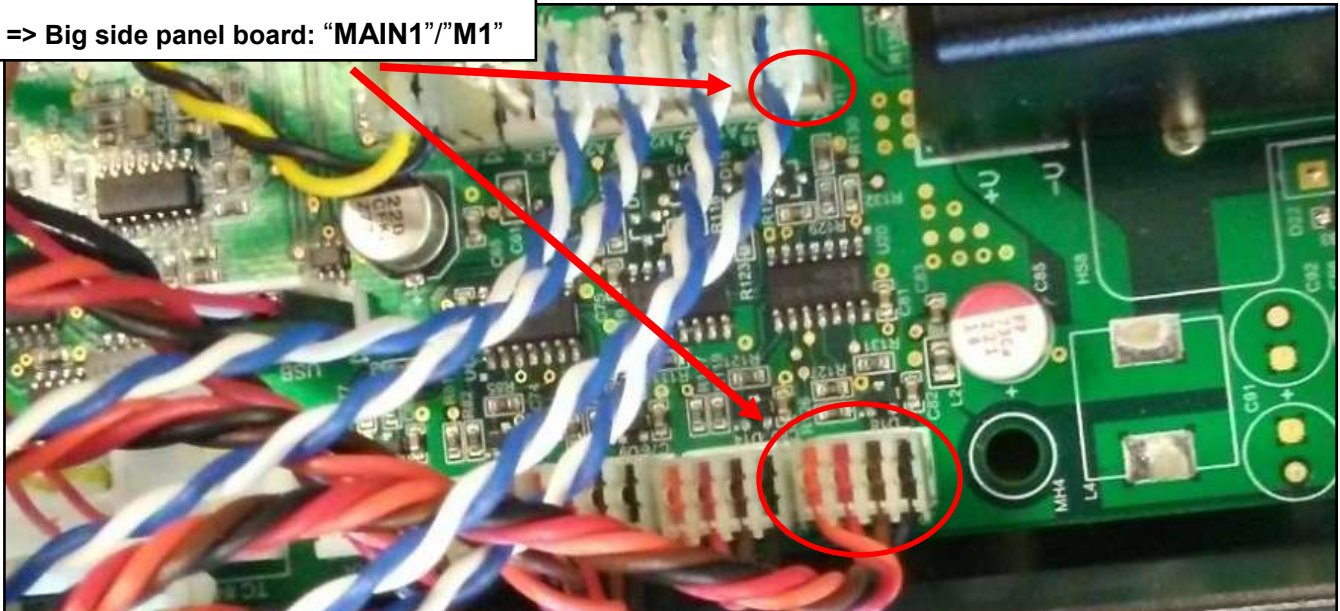
Extend Holding Bin  
EHB Series

- 20 From the **closer board on top**, disconnect the red/orange and blue/white braided wires from pin **"MAIN1"/"M1"**. Then connect to **"MAIN1"/"M1"** on the **big side panel**



Top board: **"MAIN1"/"M1"**

=> Big side panel board: **"MAIN1"/"M1"**



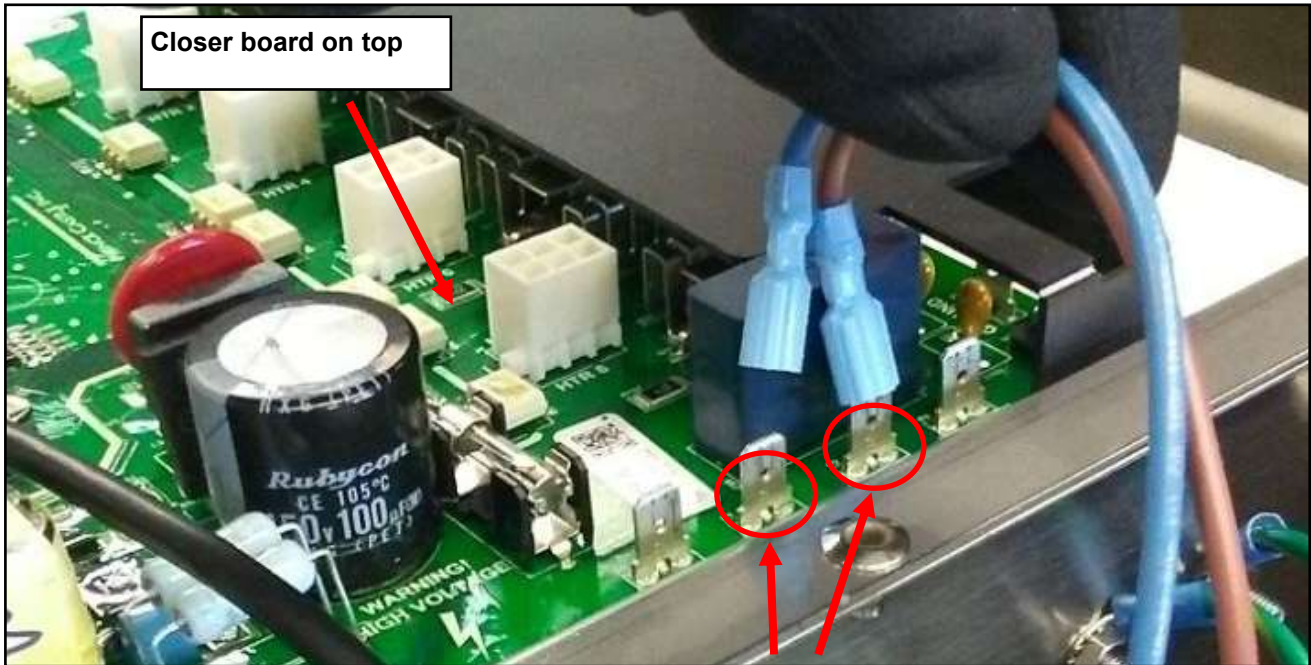


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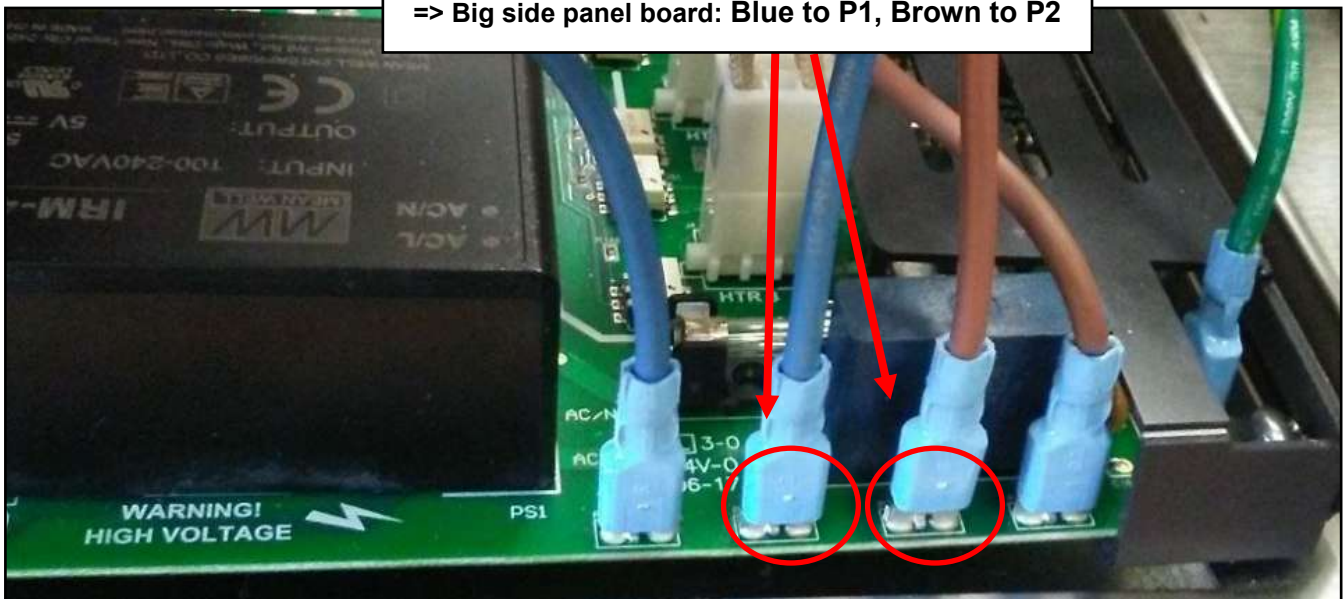
- 21 From the **closer board on top**, disconnect the blue and brown wires, and connect **blue to P1** and **brown to P2** on the **big side panel board**.



Closer board on top

Top board: Brown/blue

=> Big side panel board: Blue to P1, Brown to P2



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- 22 Plug unit into wall outlet, then follow the firmware update instructions on the following page noting areas of high voltage.

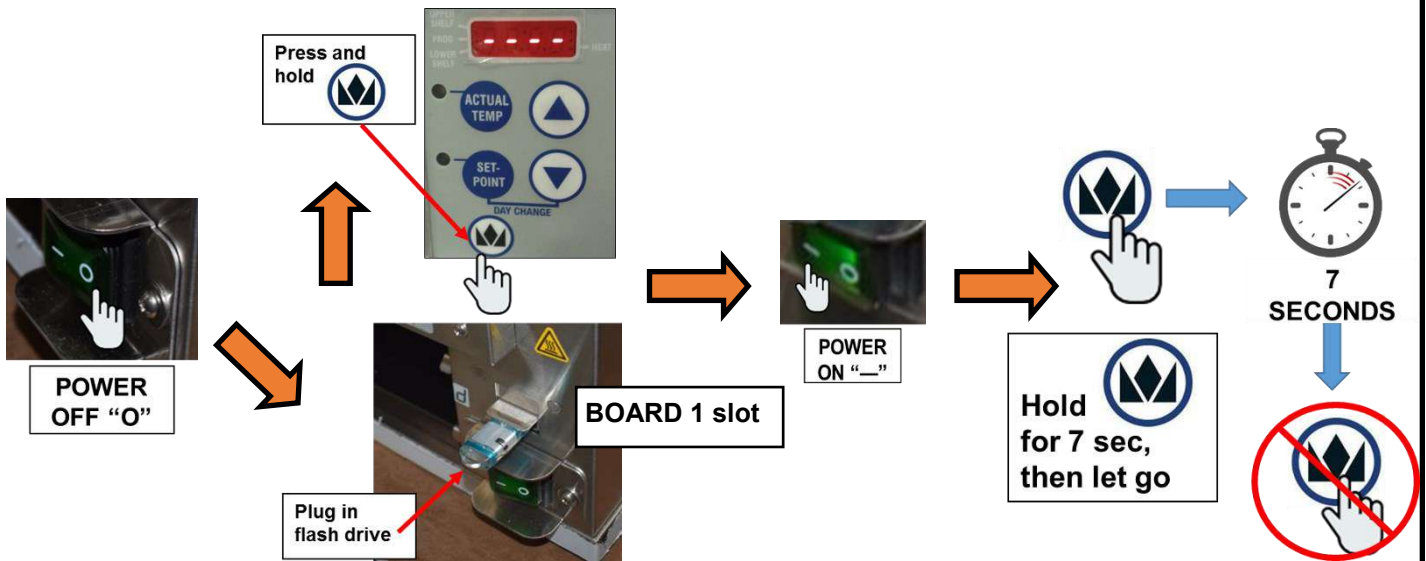
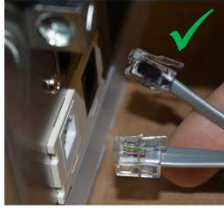


# Instructions, 3x4 Control Board Upgrade Kit



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UNPLUG  
ALL COMM  
CABLES



DISPLAY WILL GO THROUGH **BLCF** → **BLBF** → **BL04...03...02...01...00** (5-7 minutes from start to finish) → **BL00** → **BN04**

- 1) "6XX" = FIRMWARE VERSION ON PCB,
- 2) LETTER + NUMBER => PROGRAMMING DONE



3) Confirm firmware version on USB sticker "6.XX" – ALL BARS

PRINCECASTLE + ▾ → 6.XX

Repeat for backside bar by pressing only PRINCECASTLE

**\*IF 1-3 ARE NOT TRUE:**  
Contact Prince Castle  
Tech Support  
1-800-722-7853

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- 23 Turn power switch off “O”, then unplug from wall outlet; remove USB drive from BOARD 1 slot. Remove old boards on top of unit and discard.

Tuck all wires inside side cavity, re-install top cover and side panel on other side, and re-fasten all screws.



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- 24 Peel and stick the “MAC #” sticker over the one in the front right corner of the top cover. Then call Chef tech. support to sync the unit online (1.800.547.4266).

