

# ETC<sup>®</sup> Service Note

## Congo<sup>™</sup> Power Supply Cable Upgrade Kit



### Overview

The Congo<sup>™</sup> Power Supply Cable Upgrade Kit provides a new set of power looms for reliable improvement to Congo's operation.

### Upgrade Kit Contents

Qty	Description	Part Number
1	Supply cable loom #1 (20 core)	7310B7003
1	Supply cable loom #2 (4 core)	7310B7004
1	Reset / LED cable loom (4 core)	7310B7005
2	Standoff M3 x 6mm	HWM1257
1	Cable tie adhesive pad	HW7166
15	Cable tie	HW7174
1	Silicone	n/a
1	Reset Label	7310A4024
1	Congo Power Supply Cable Upgrade Kit Service Note	7310M3300
1	Congo Power Supply Configuration Service Note	7310M3301

### Tool Requirement

The following tools may be required, but not supplied, for this Power Supply Cable Upgrade Kit.

- pozi or philips screwdriver #1
- wire cutters
- nut spinner (metric 7mm) or adjustable wrench

### Upgrade Procedure



**WARNING:** *Disconnect mains power before opening the console!*

- Step 1: Open the Console for service.
- a: Quarter turn the two quick release latches on the bottom of the console.
  - b: Lift the console facepanel.



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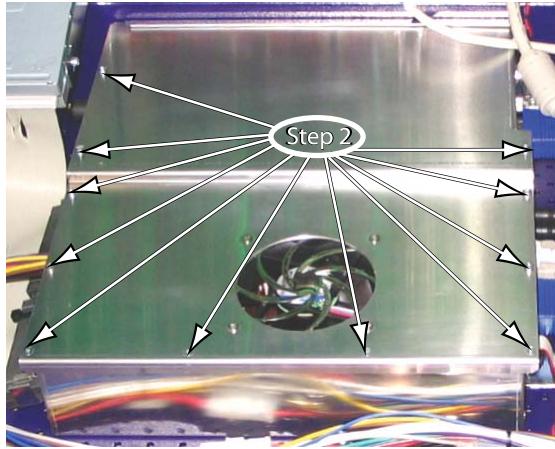
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Step 2: Open the EMC cage lid (open only the lid, do not remove the EMC cage).

a: Utilizing the screwdriver, remove the 11 screws securing the EMC cage lid.

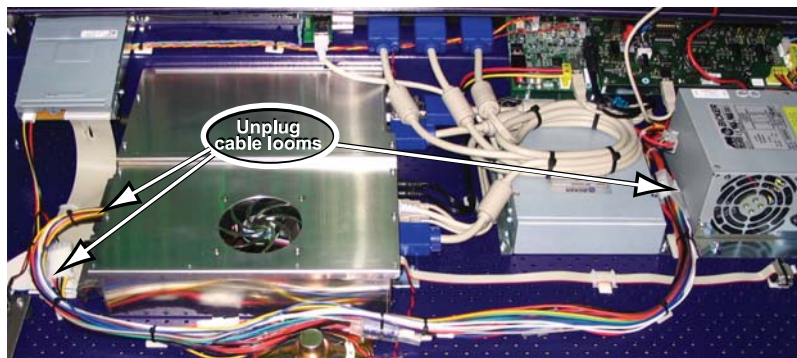


Step 3: Unplug and remove the power supply cable looms.

a: Remove only the cable ties securing the power supply cable looms in place.

b: Remove the cable ties securing the Reset/LED cable loom in place.

c: Remove the power supply cable looms from the enclosure.



Step 4: Install the new power supply cable loom #1, provided in the Upgrade Kit.

a: Connect the supply cable loom #1 between the power supply connector and the main board power connector.

b: Route the cable loom through the opening of the EMC cage.



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**Note:**

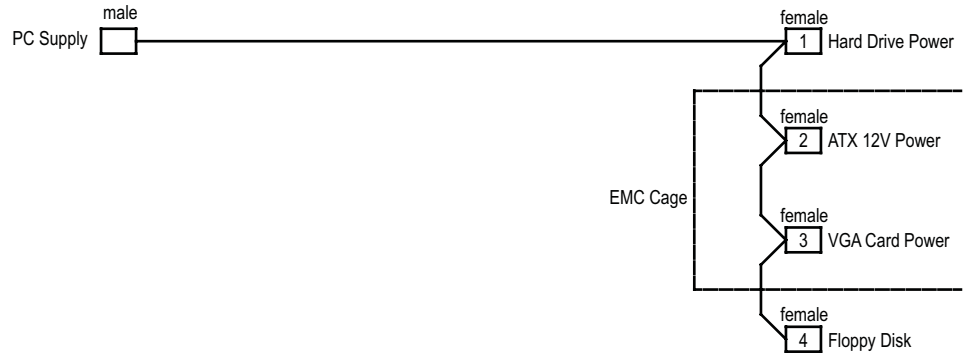
*Be careful to retain the grommet in place around the metal edge of the EMC cage.*

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Step 5: Install the new power supply cable loom #2, provided in the Upgrade Kit.



- a: Connect the power supply cable loom #2 to the power supply.
- b: Connect the first female connector to the hard-disk connector.
- c: Route the cable through the opening of the EMC cage.

 **Note:** *Be careful to retain the grommet in place around the metal edge of the EMC cage.*


- d: Connect the second connector to the main board 12V extension.
- e: Connect the third connector to the VGA card extension.
- f: Route the cable through the opening of the EMC cage.

 **Note:** *Be careful to retain the grommet in place around the metal edge of the EMC cage.*

- g: Connect the fourth female connector to the floppy disk drive.


Step 6: Install the Reset / LED cable loom provided in the Upgrade Kit.

- a: Disconnect the **existing** Reset / LED cable loom connected between the transition board and the main processor board.

 **Note:** The Reset / LED loom is a 4 wire assembly (yellow/red/brown/orange).

- b: Connect the new Reset / LED cable loom to J11 of the transition board 4250B5008. *This is the connector next to the USB ports.*

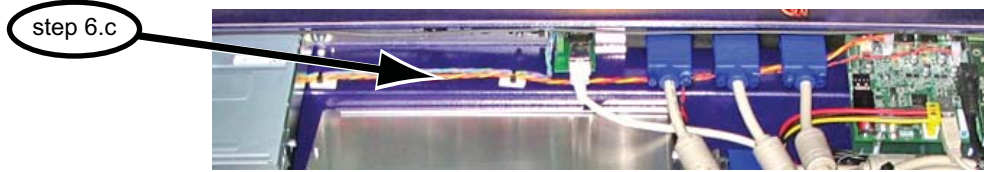


 **CAUTION:** *Do not connect to the headers near the edge of the board, example J7 / J12. System damage will occur.*

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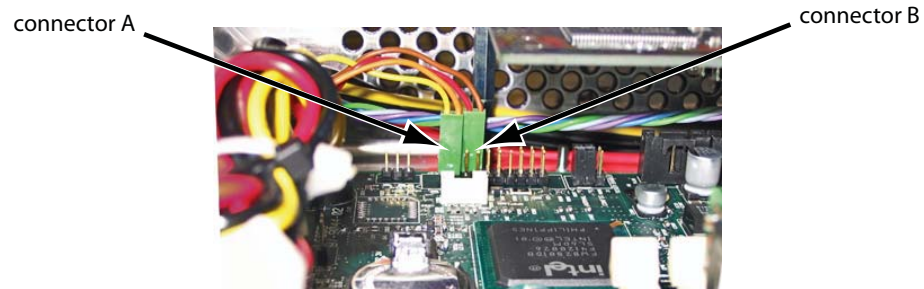
c: Route the Reset / LED cable loom through the back hole of the EMC cage.



d: Mate connector A (yellow and orange cable) to pins 1 and 3 of connector “front panel”. The yellow cable should be on pin 1 (facing left as shown below).

e: Mate connector B (red and brown cable) to pins 6 and 8 of connector “front panel”. The red cable should be on Pin 6 (facing left as shown below).

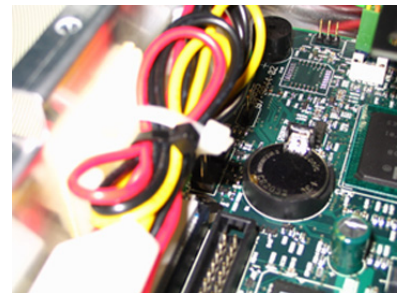
f: Secure connector A and connector B in place with a drop of silicone.



Step 7: Secure the power cable loom.

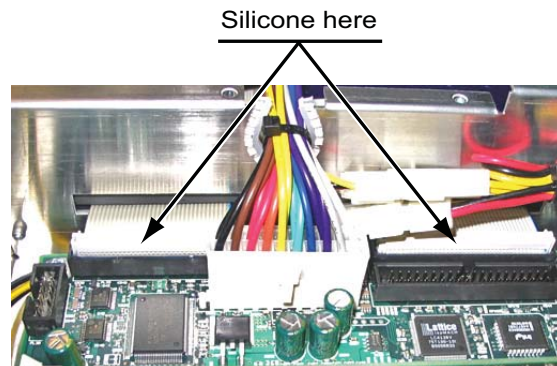
a: Add the self adhesive cable tie pad near the power cable inlet of the EMC cage.

b: Tie down the cable loom to this pad so that the cable is free of touching the memory module and all other internal components.



Step 8: Secure the hard drive and floppy drive cable loom connectors with silicone.

a: Add a strip of silicone on the hard drive and floppy drive cable connectors.

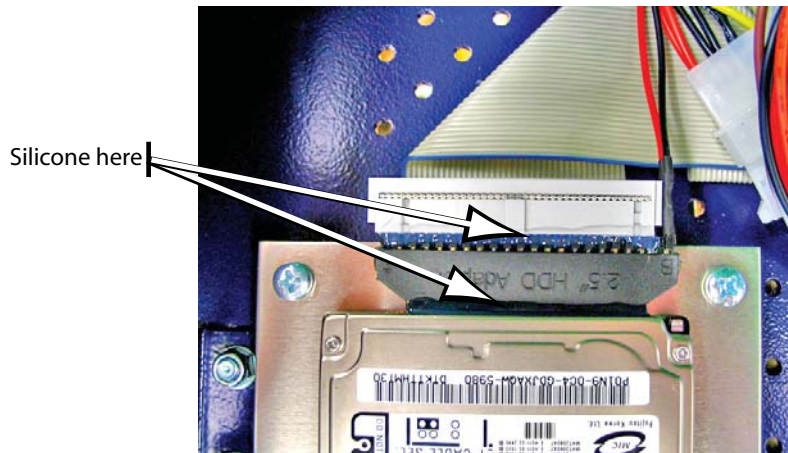




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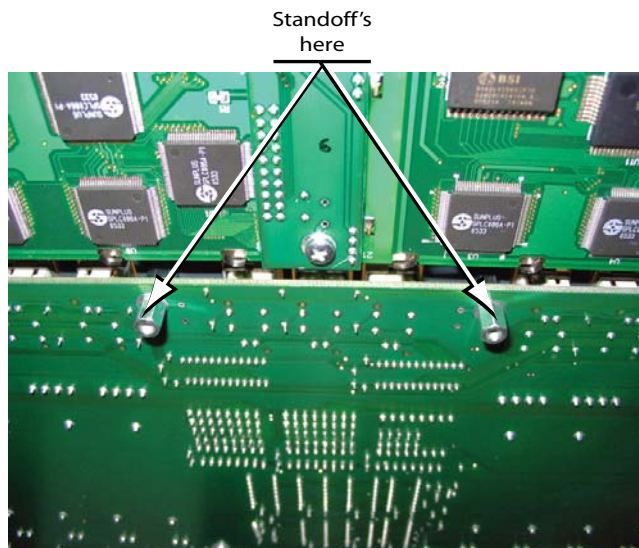
## Congo™ Power Supply Cable Upgrade Kit

- b: Add a strip of silicone at the hard- and floppy-drive cable connection, to secure the connectors in their sockets.



Step 9: Close the EMC cage lid and reinstall the 11 screws removed in Step 2.

Step 10: Replace the two mounting screws located underside the facepanel with two M3 x 6mm standoffs.



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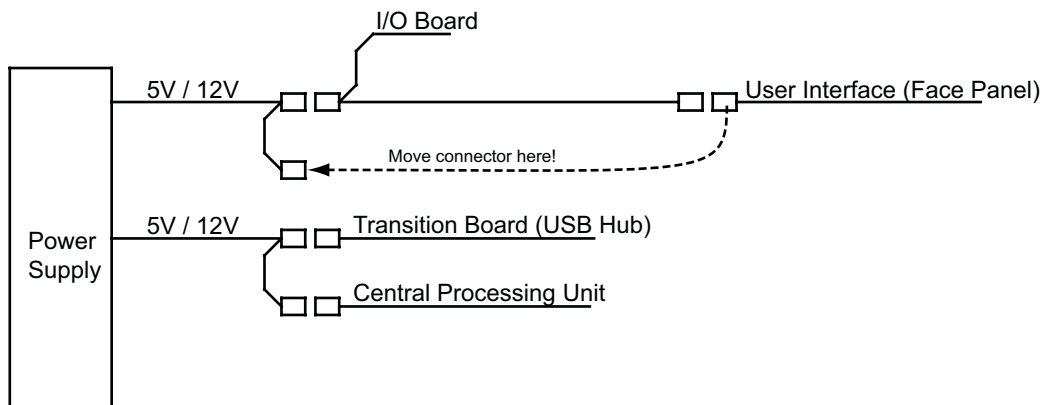
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Step 11: Un-mount the power supply by loosening the self locking nuts.

- a: Locate the connector of the user interface (facepanel) power.
- b: Unplug this connector and plug it into the direct power supply cable loom. Reference the graphic below for clarification.



Self locking nuts



Step 12: Close the console facepanel and secure it with a quarter turn of the quick release latches.



### **Note:**

*The console should automatically boot when power is applied. In the unlikely event that a console does not start after mains supply is applied, it is possible to start the console by pressing the Reset button. The Reset button functions slightly different than before this upgrade.*

- *To reset the console, hold the Reset button for more than 5 seconds. This will shut down the console.*
- *To re-start the console after the above step, press the reset button once. This will power up the console again.*

Step 13: Locate the Reset label from the upgrade kit and place it on the rear panel of the Congo console in the location indicated in the graphic below.



Place label here

Step 14: Re-Configure the UPS service Power fail Options Configuration.

- a: Reference the “Congo Power Supply Configuration Service Note” for instructions.