

# ETC® Service Note

## Congo™ jr Main Board Replacement



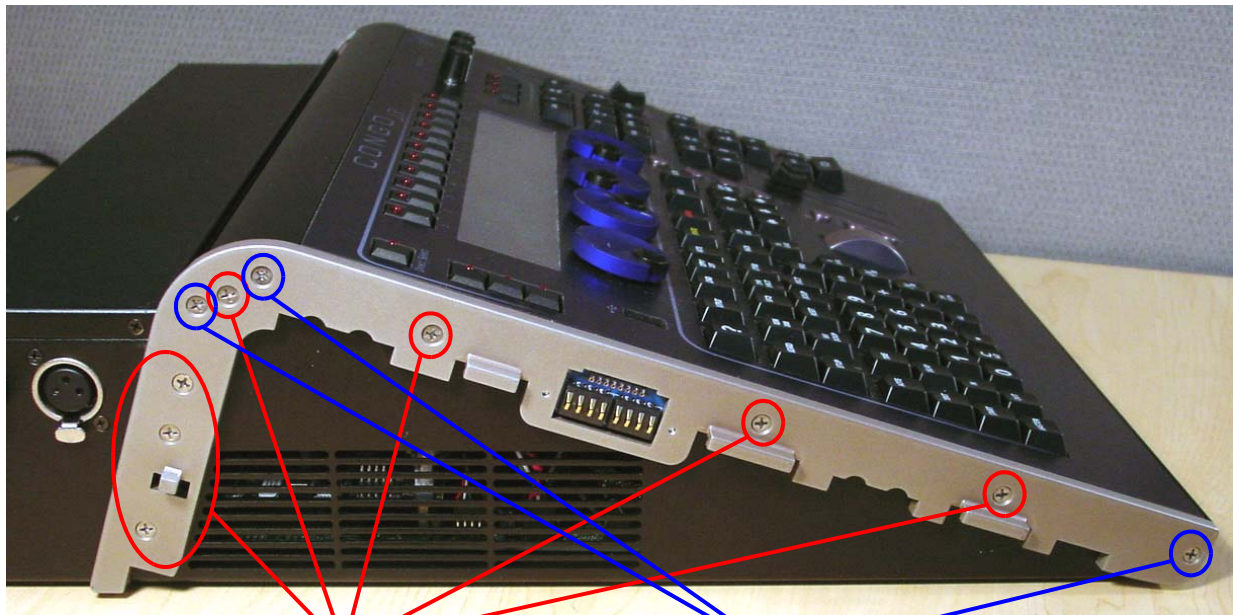
### Tools Required:

- #2 Phillips Screwdriver
- #1 Phillips Screwdriver
- Side Cutter
- Needle Nose Pliers
- 5/16" nut driver
- Right angle hex key (0.050)
- 4" Replacement zip ties

### Procedure:

- Step 1: Remove the protective side panels from the Congo JR Console.
- Step 2: Remove the 7 screws indicated in **Red** below.
- Step 3: Loosen the 3 screws indicated in **Blue** below.

**NOTE: DO NOT remove the 3 screws.**



Remove these screws

Loosen these screws  
2 full turns



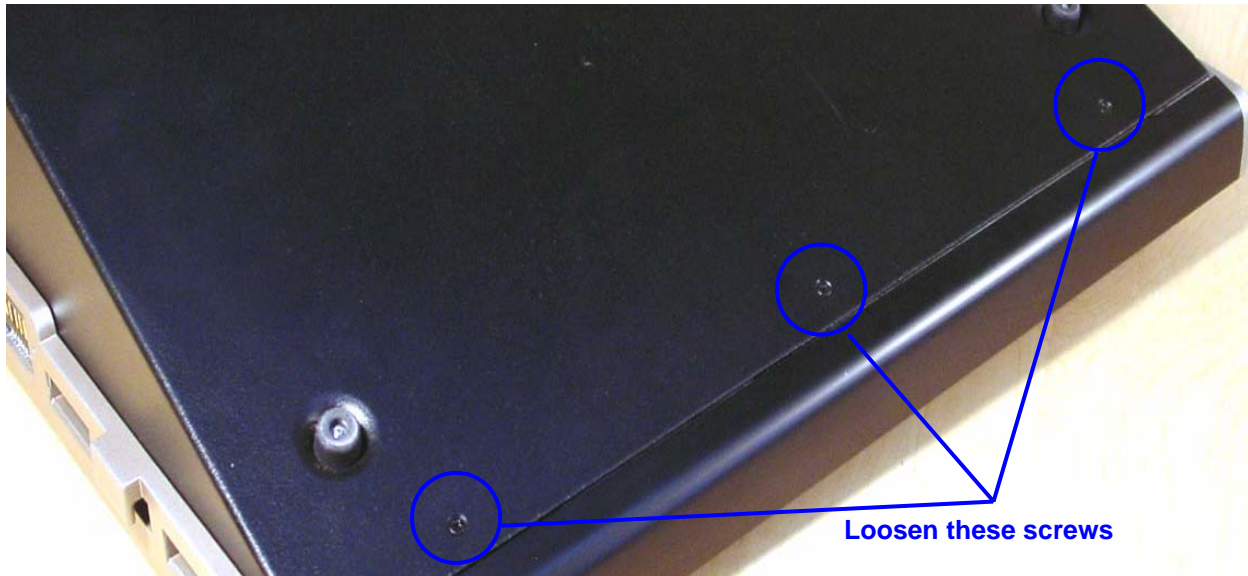
Corporate Headquarters ■ 3031 Pleasant View Road, P.O. Box 620979, Middleton, Wisconsin 53562-0979 USA ■ Tel +608 831 4116 ■ Fax +608 836 1736  
London, UK ■ Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK ■ Tel +44 (0)20 8896 1000 ■ Fax +44 (0)20 8896 2000  
Rome, IT ■ Via Ennio Quirino Visconti, 11, 00193 Rome, Italy ■ Tel +39 (06) 32 111 683 ■ Fax +39 (06) 32 656 990  
Holzkirchen, DE ■ Ohmstrasse 3, 83607 Holzkirchen, Germany ■ Tel +49 (80 24) 47 00-0 ■ Fax +49 (80 24) 47 00-3 00  
Hong Kong ■ Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong ■ Tel +852 2799 1220 ■ Fax +852 2799 9325  
Service: (Americas) [service@etcconnect.com](mailto:service@etcconnect.com) ■ (UK) [service@etc europe.com](mailto:service@etc europe.com) ■ (DE) [techserv-hoki@etcconnect.com](mailto:techserv-hoki@etcconnect.com) ■ (Asia) [service@etcasia.com](mailto:service@etcasia.com)  
Web: [www.etcconnect.com](http://www.etcconnect.com) ■ Copyright © 2006 ETC. All Rights Reserved. ■ Product information and specifications subject to change.  
® Pending ■ Rev A ■ Released 02/2007

# ETC Service Note

## Congo™ jr Main Board Replacement

Step 4: Carefully flip over the console and loosen the 3 screws in blue below:

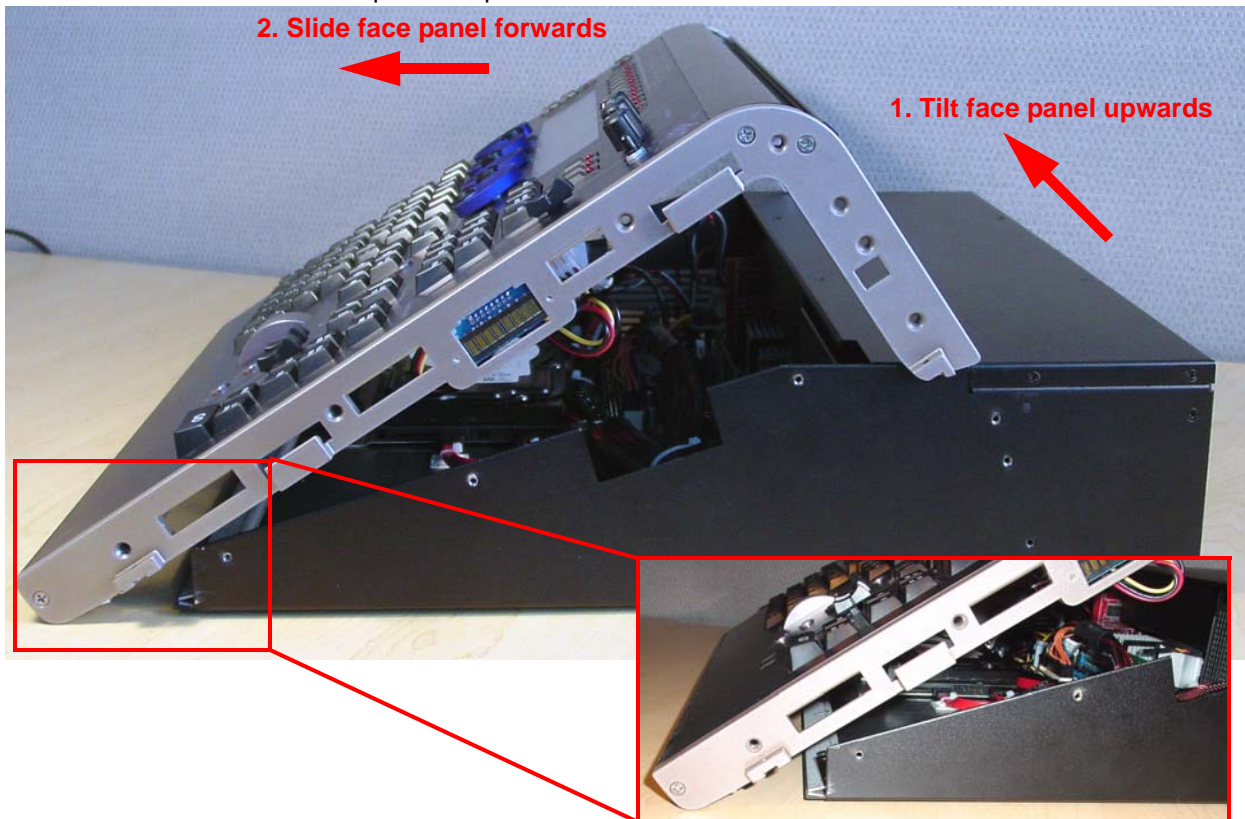
**NOTE: DO NOT remove the 3 screws.**



Step 5: Flip the console back onto the base.

Step 6: Lift the back side of the face panel upwards away from the base.

Step 7: Slide the face panel towards the front of the console. The face panel will slip under the base pressure plate.

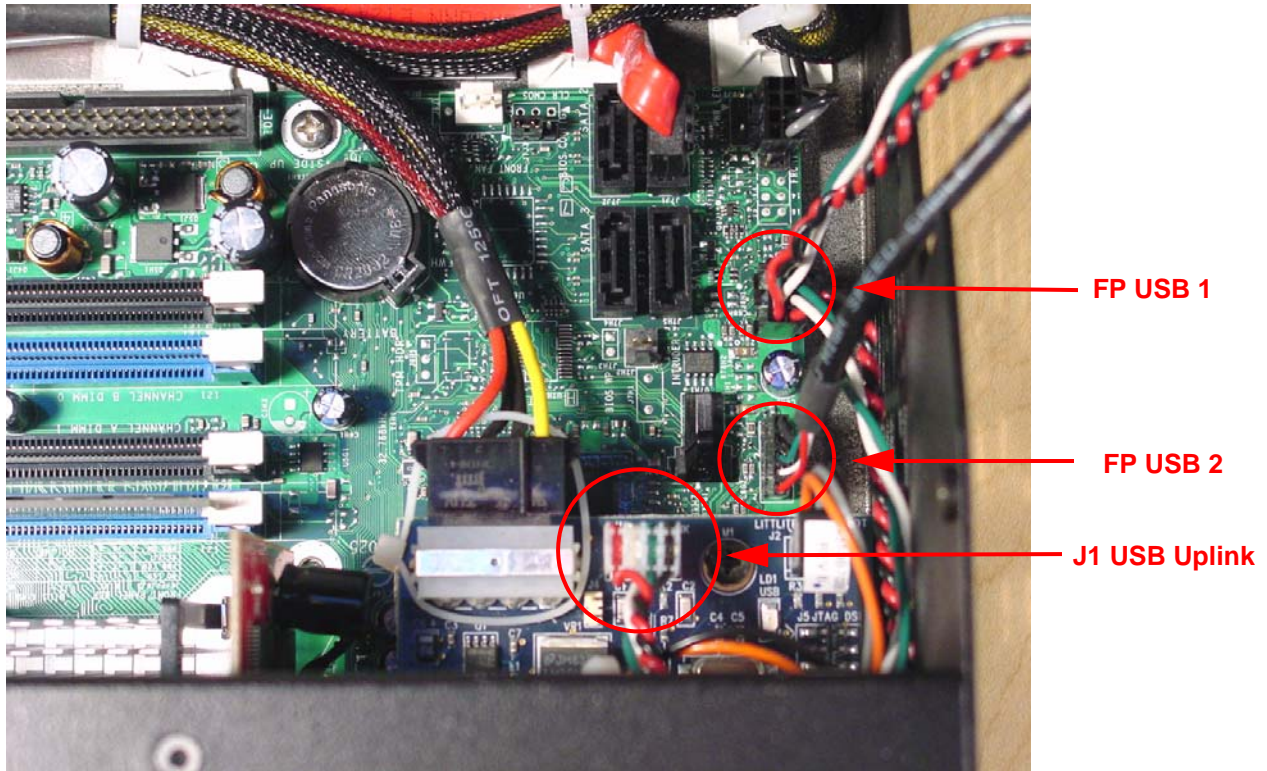


# ETC Service Note

## Congo™ jr Main Board Replacement

Step 8: Disconnect the J1 USB uplink from the I/O Card

Step 9: Disconnect the face panel USB 1&2 connectors from the Congo jr motherboard.

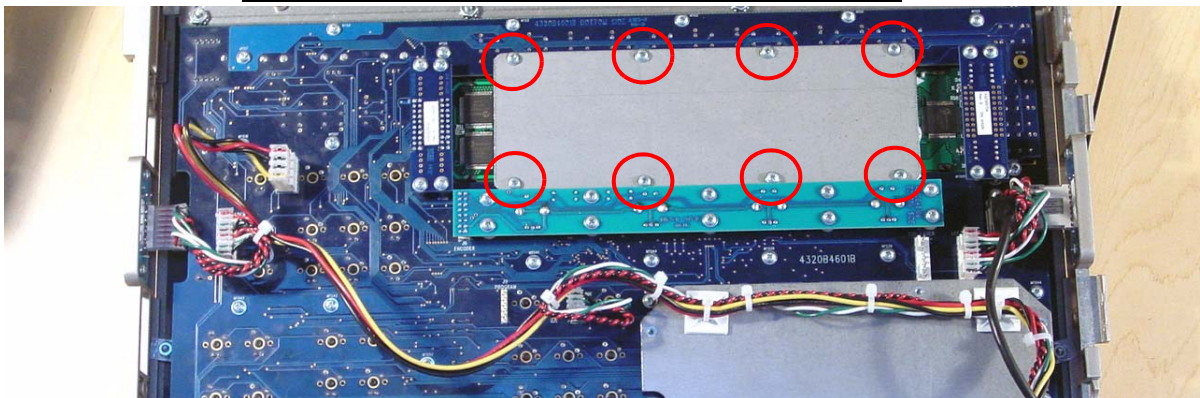


Step 10: Clip the zip ties holding the face panel cables to the base of the unit.

Step 11: Carefully set the Congo jr face panel face down exposing the back side of the face panel PCB.

Step 12: Remove the 8 short screws from the LCD pressure plate.

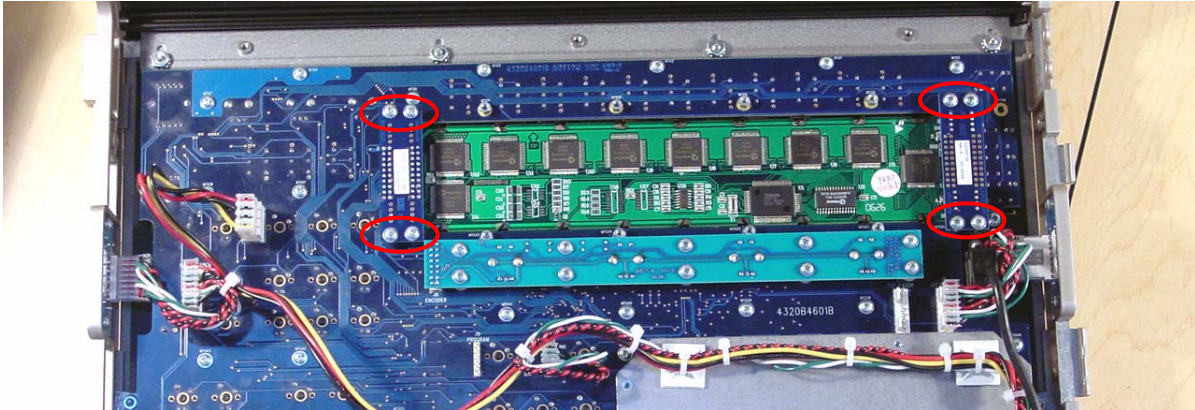
**NOTE: Be sure that you keep these 8 screws separated from the other FP Screws as these are shorter screws than the others.**



# ETC Service Note

## Congo™ jr Main Board Replacement

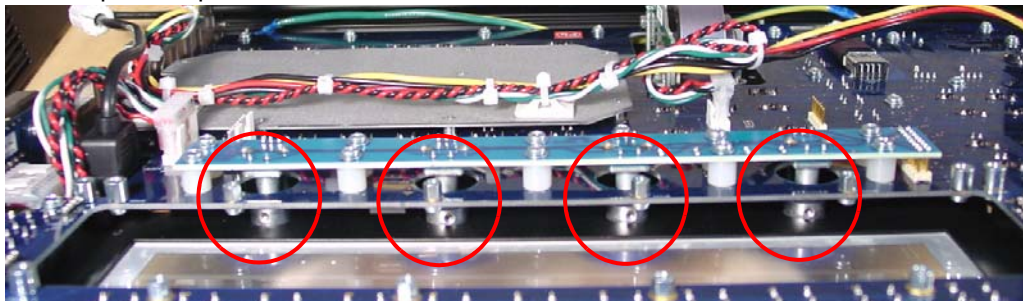
Step 13: Remove the 8 face panel LCD jumper screws



Step 14: Lightly lift each side of the LCD screen socket circuit board to remove the LCD screen from the Congo jr face panel and set it aside.

Step 15: With the LCD screen removed from the face panel, you can now access the encoder knob shafts.

Step 16: Spin the encoder shaft until the hex nut is visible.



Step 17: Loosen the hex nut until the encoder falls from the shaft.



Step 18: Flip the face panel back over exposing the keypad and faders.

Step 19: Lift up the Independents, and BO, ON, FREEZE knob caps.

**NOTE: You can lift these caps up with the tip of your fingernail.**

Step 20: Once you expose the inside of the knob, you can remove it by loosening the internal nut inside the knob with the 5/16" nut driver.

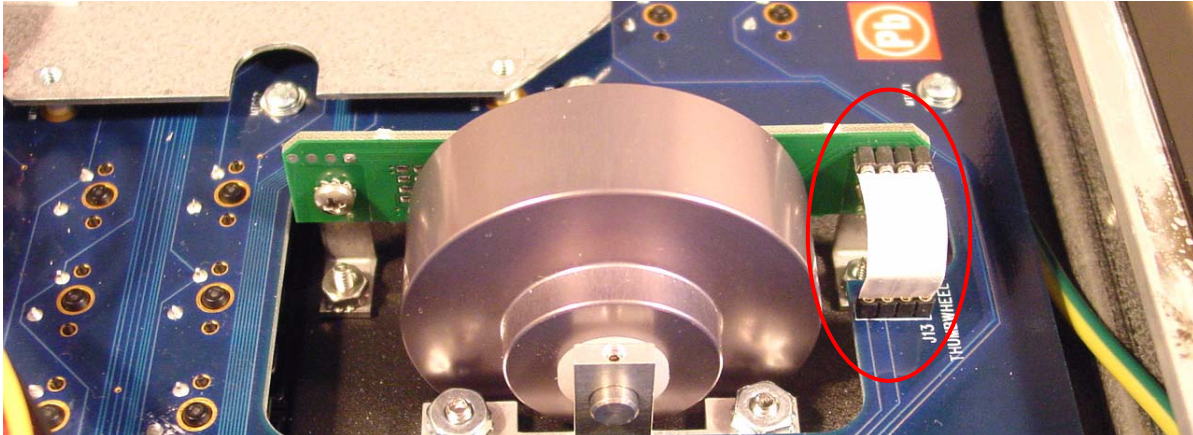
Step 21: Remove the 3 fader caps from the Grandmaster and A/B Fader Pair.

Step 22: Flip the face panel back over on the front side.

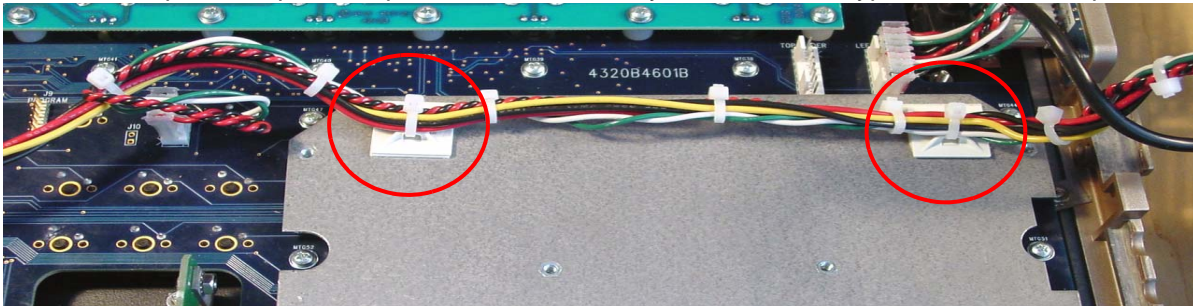
# ETC Service Note

## Congo™ jr Main Board Replacement

Step 23: Remove the level wheel ribbon cable from the encoder board.

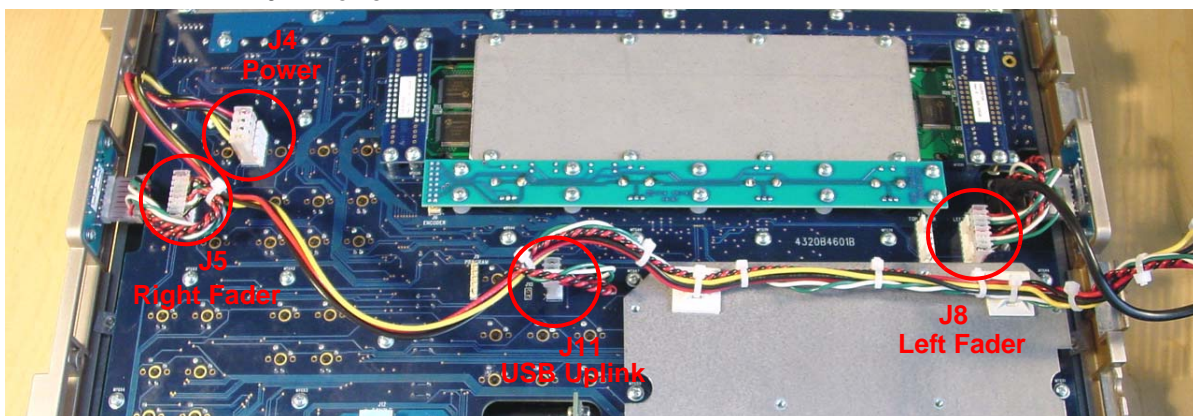


Step 24: Clip the 2 zip ties attached to sticky backs on the keypad reinforcement plate.



Step 25: Disconnect the following headers from the motherboard.

- J5 - Right Fader
- J8 - Left Fader
- J11 - USB Uplink
- J4 - Power



Step 26: Set the face panel wire harness aside.

Step 27: Remove all 32 screws holding the face panel main board in place.

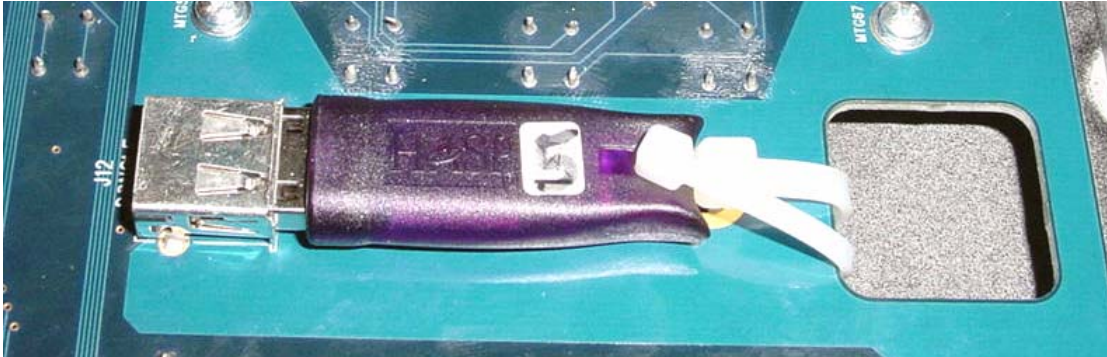
Step 28: Swap out the main board for the new one.

Step 29: Clip the zip ties from the USB key attached to the old board.

# ETC Service Note

## Congo™ jr Main Board Replacement

Step 30: Move the USB key to the new face panel and replace the zip tie.



Step 31: Replace all 32 screws that hold the face panel motherboard in place.

Step 32: Re-connect the encoder board and encoders.

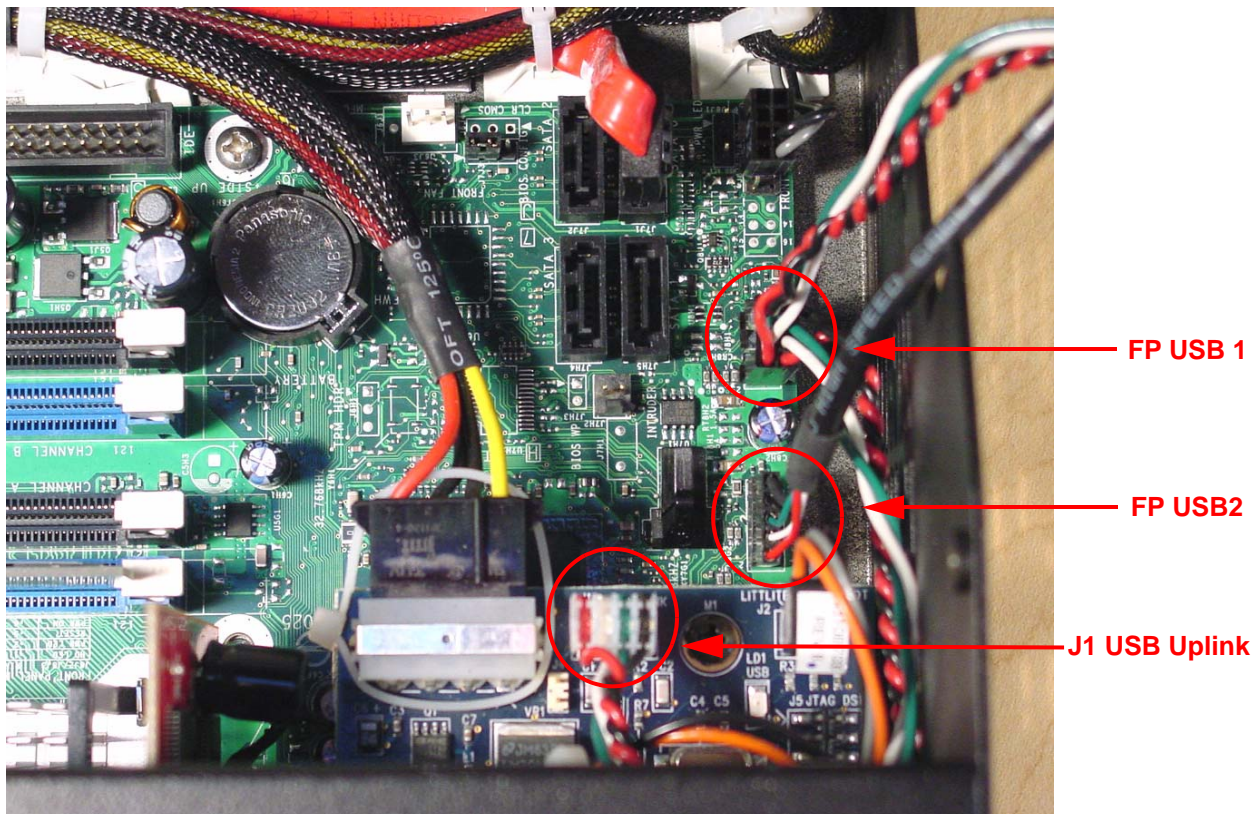
Step 33: Re-connect the LCD screen, screws, and pressure plate.

Step 34: Re-connect the level wheel ribbon cable.

Step 35: Connect the J4, J5, J8, J11 connectors back on the main board.

Step 36: Place 2 zip ties around the face panel wire harness through the sticky backs. Trim off the excess zip tie tails.

Step 37: Re-attach the USB connectors to the motherboard.

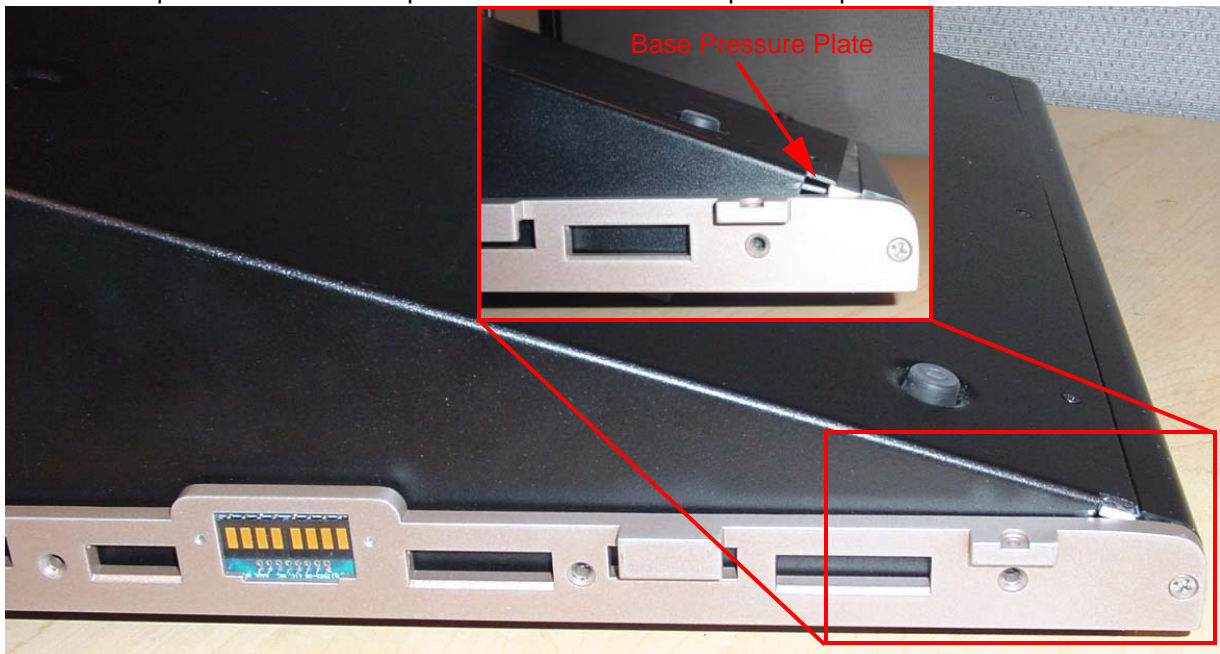


# ETC Service Note

## Congo™ jr Main Board Replacement

---

Step 38: Slide the face panel back under the base pressure plate.



Step 39: Re-attach all 7 screws from each side of the console face panel.

Step 40: Flip the face panel over and tighten the 3 screws on the base of the console.

Step 41: Power the console up and verify correct console operation.

# ETC Service Note

## Congo™ jr Main Board Replacement

---