

ETC® Service Note

Congo™ jr Encoder Replacement



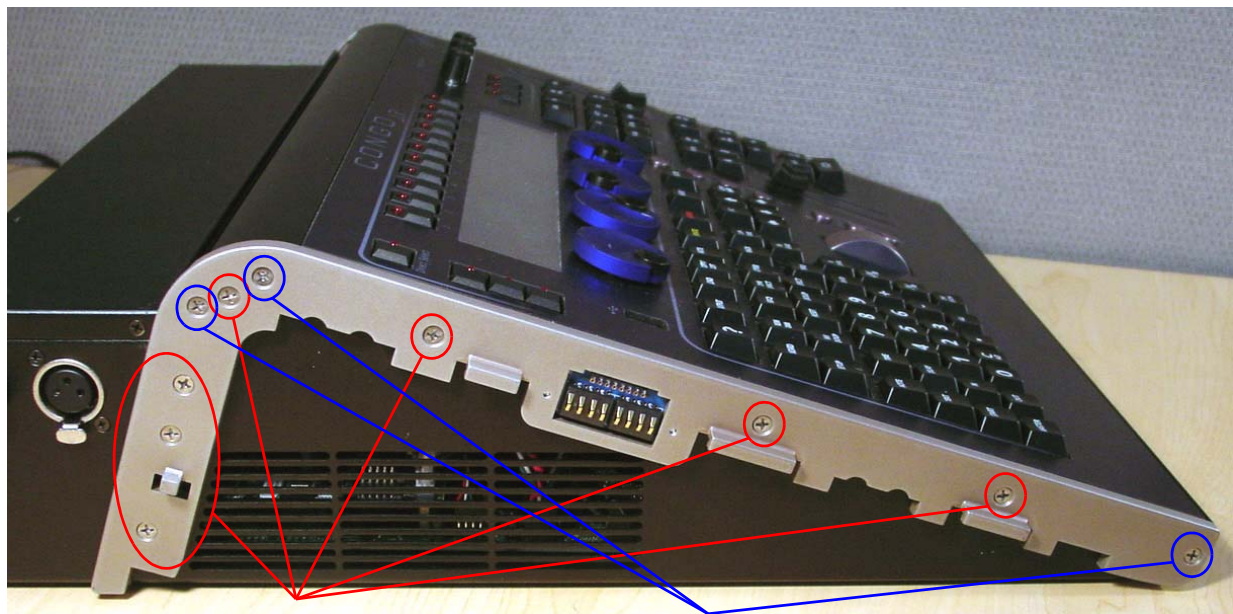
Tools Required:

- #2 Phillips Screwdriver
- #1 Phillips Screwdriver
- Side Cutter
- Needle Nose Pliers
- Soldering Iron
- Lead Free Solder
- 4" Replacement zip ties
- .050 angled Hex key

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



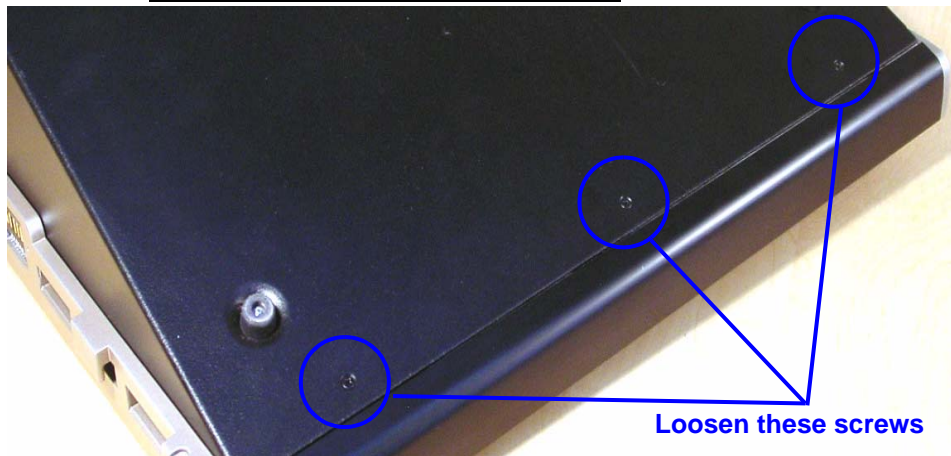
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® Pending ■ Rev A ■ Released 02/2007

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

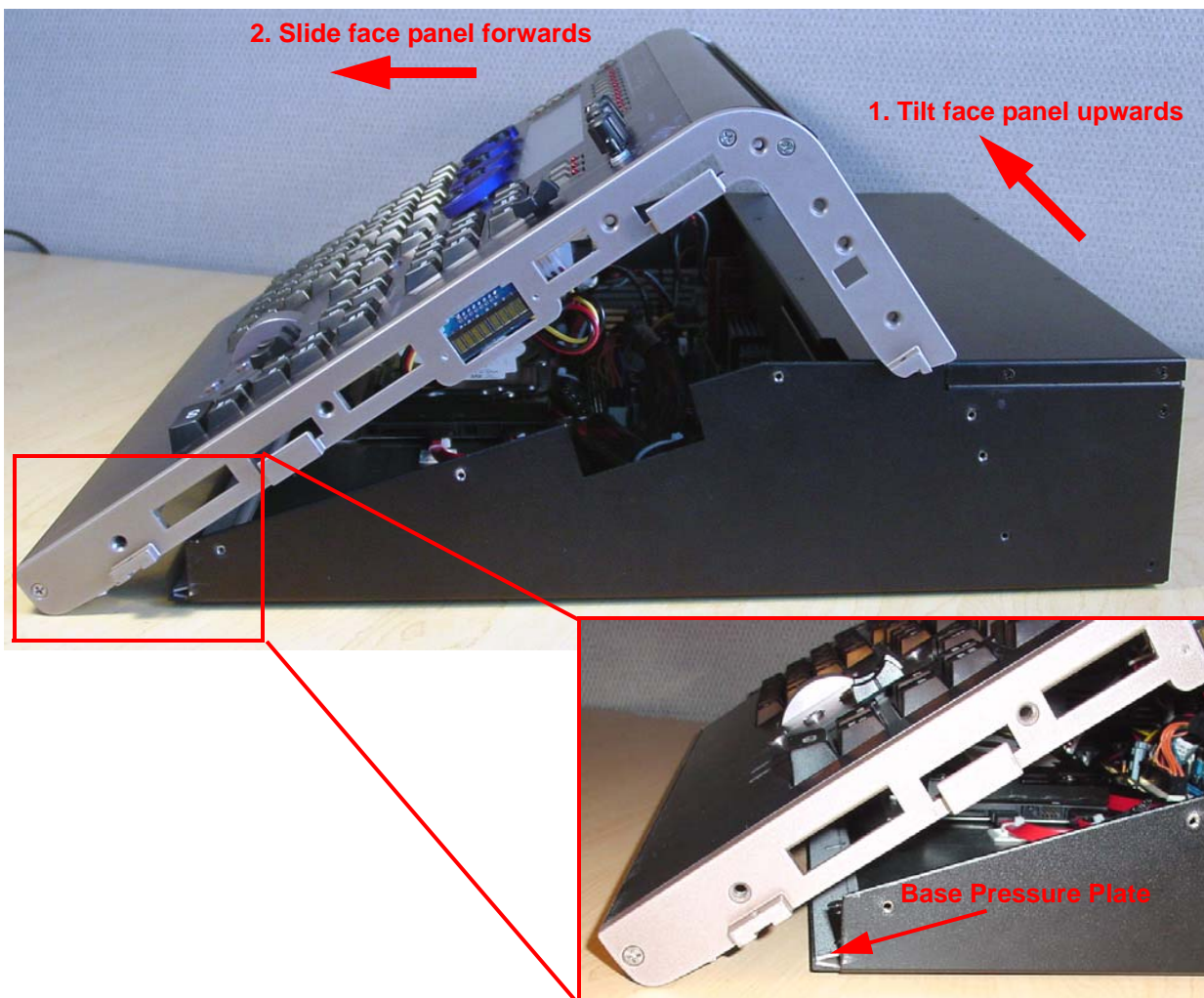
NOTE: DO NOT remove the 3 screws.



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.

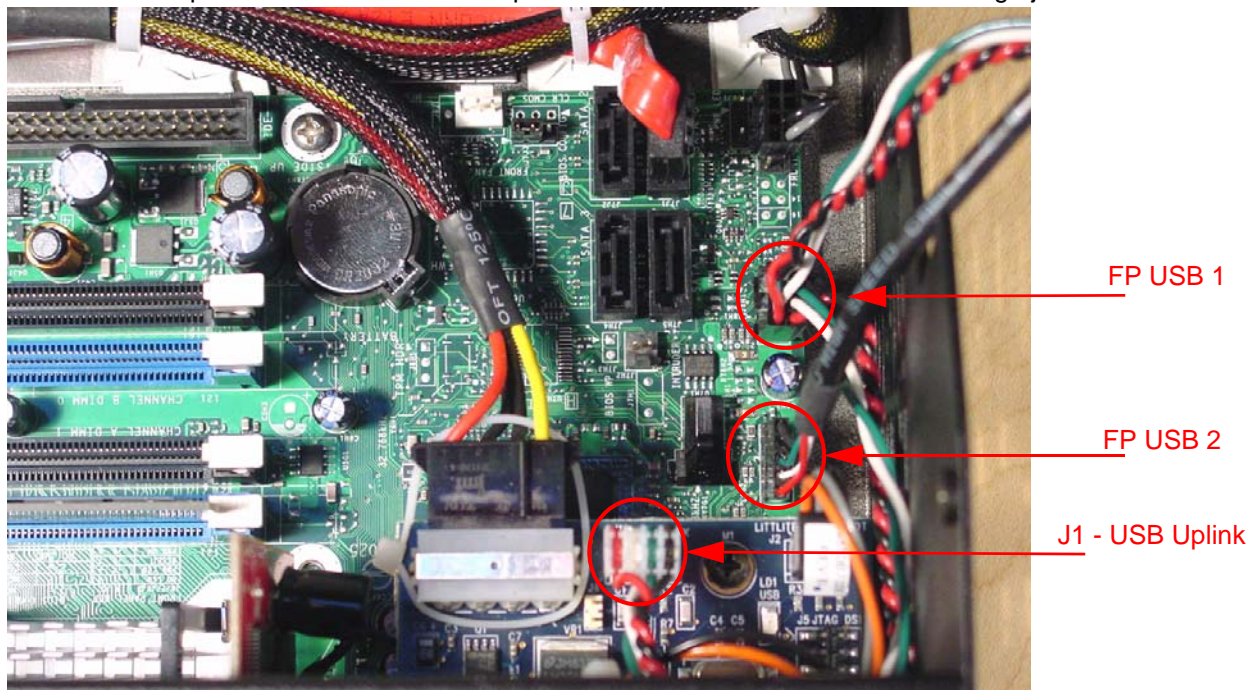


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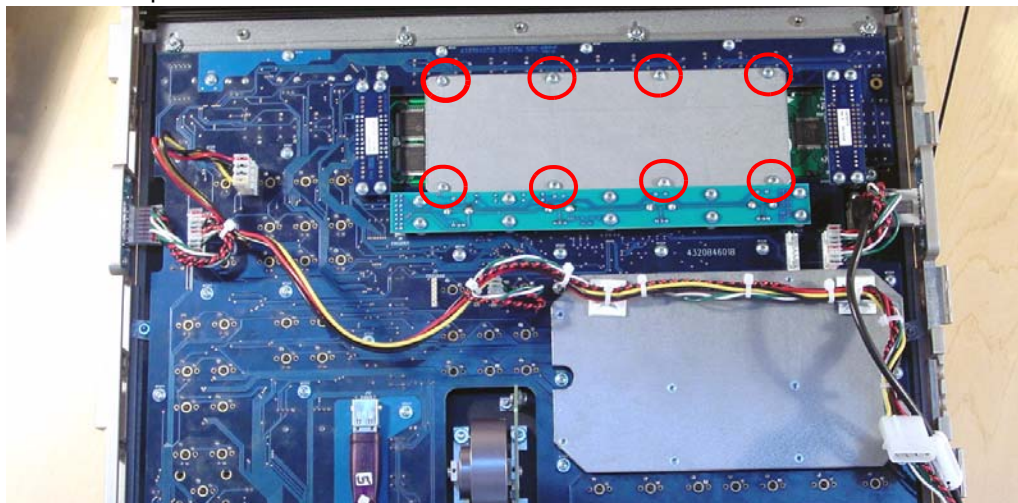
Step 8: Disconnect the J1 USB uplink from the I/O card.

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.



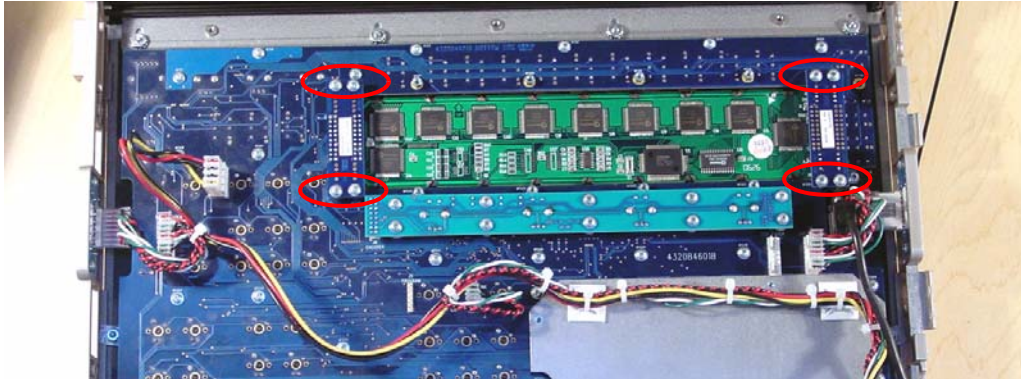
Step 12: Remove the 8 short screws from the LCD pressure plate.

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

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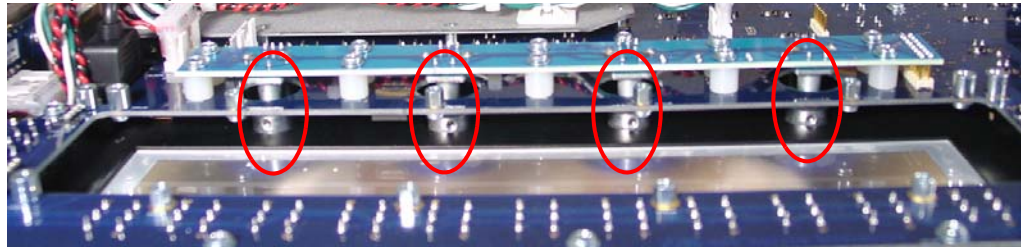
Step 13: Remove the 8 face panel LCD Jumper screws



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

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

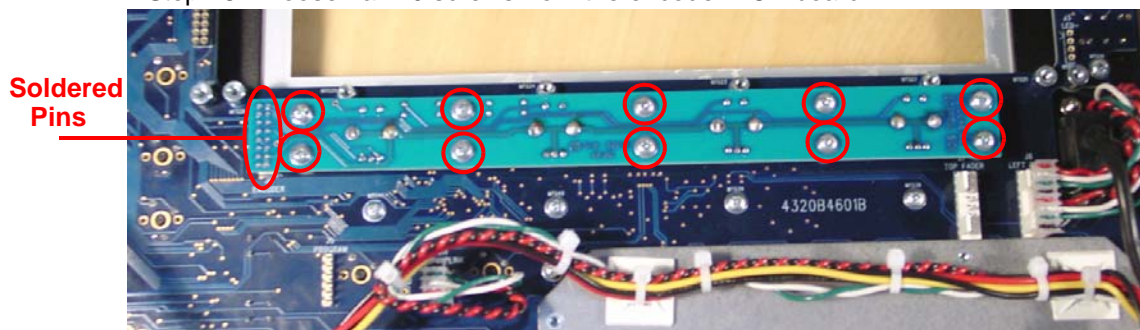
Step 16: Spin the encoder shaft until the hex nut is visible.



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



Step 18: Loosen all 10 screws from the encoder PCB board.



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Step 19: Replace encoders as needed on PCB or replace the whole board.

NOTE: Pins on this board are soldered, not socketed. You will need to de-solder each of the 16 pins. DO NOT THROW THESE PINS AWAY. You will need to re-solder the pins once the encoder/board has been replaced.

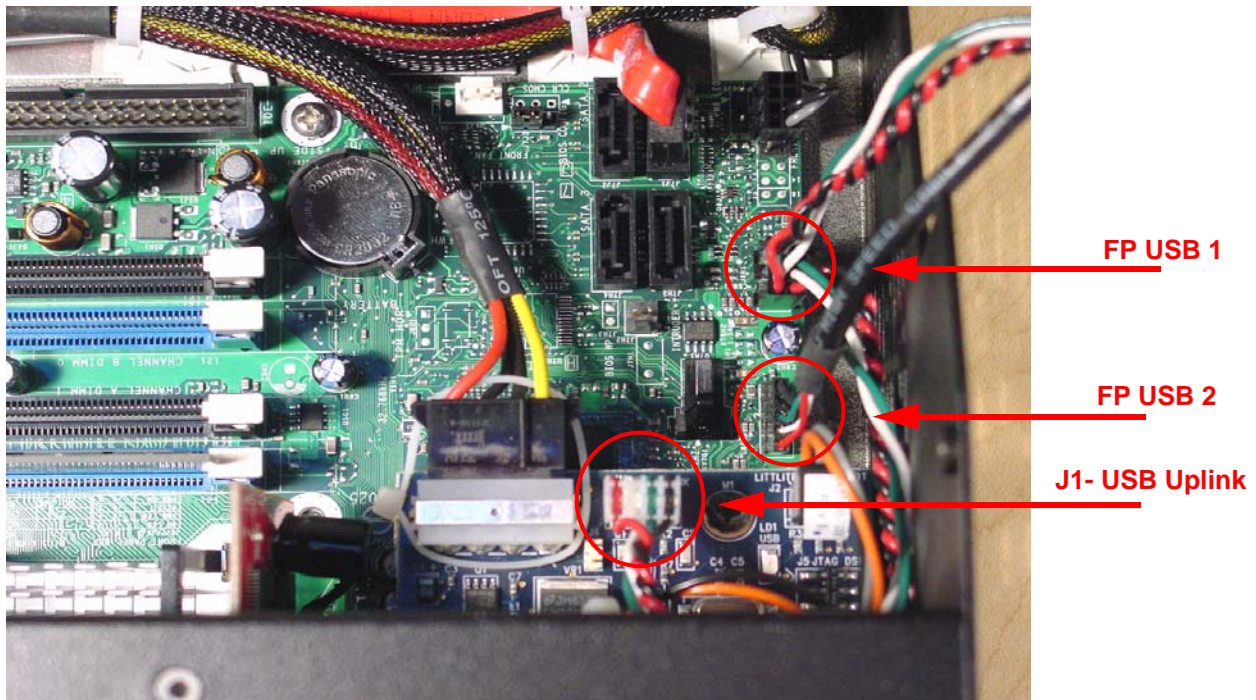
Step 20: Once the encoder/board has been replaced, re-solder the 16 pins on the left side of this board. Re-attach all 10 screws of the encoder board to the appropriate stand off.

NOTE: The stand offs used on this board are plastic. DO NOT OVER TIGHTEN: doing so will strip the standoff. Attach these screws with a manual screw driver only.

Step 21: Replace the LCD Screen and attach all 8 of the screws on either side of the LCD Jumper Board.

Step 22: Place the LCD Pressure plate back over the LCD Screen and attach the 8 short screws back into their respective standoff.

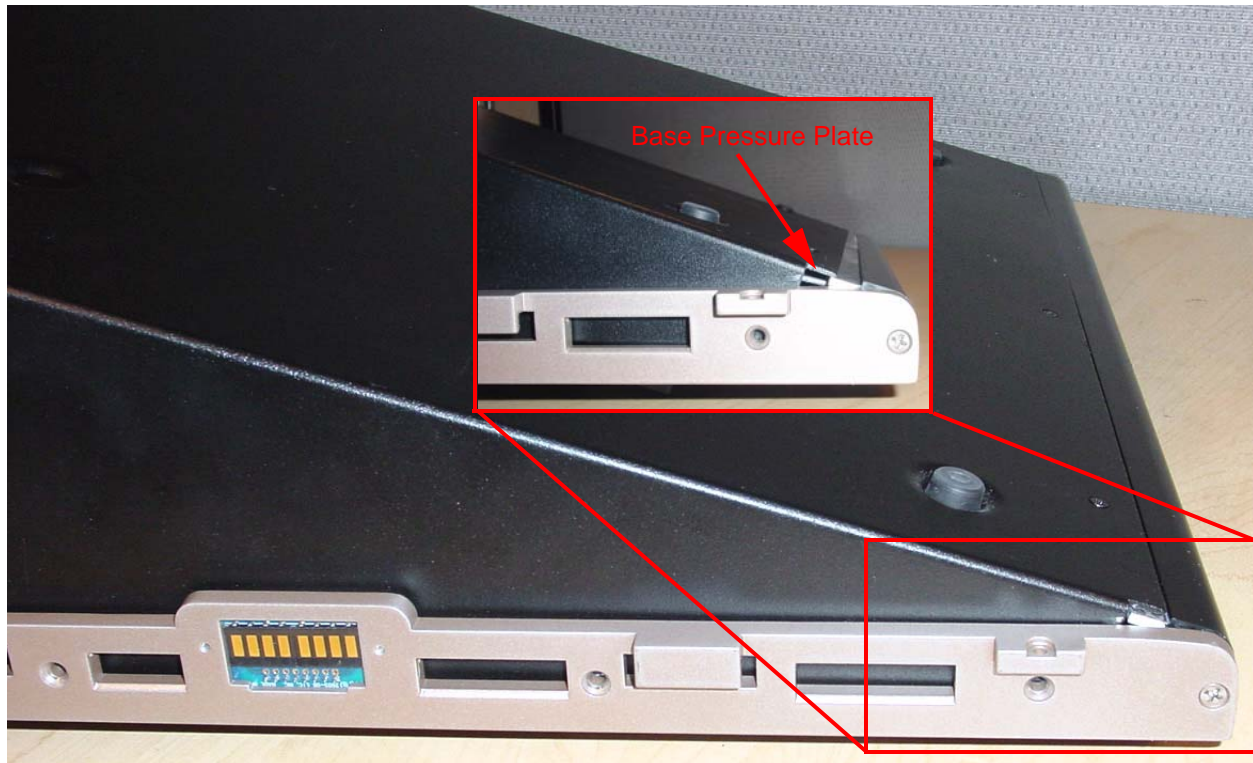
Step 23: Re-attach the USB Connectors to the motherboard.



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Step 24: Slide the face panel back under the Base pressure plate.



Step 25: Re-attach all 7 screws from each side of the console face panel.

Step 26: Flip the face panel over and tighten the 3 screws on the base of the console.

Step 27: Power the console up and verify correct console operation.