

# ETC® Service Note

## Congo™ jr Master Wing Main Board Replacement



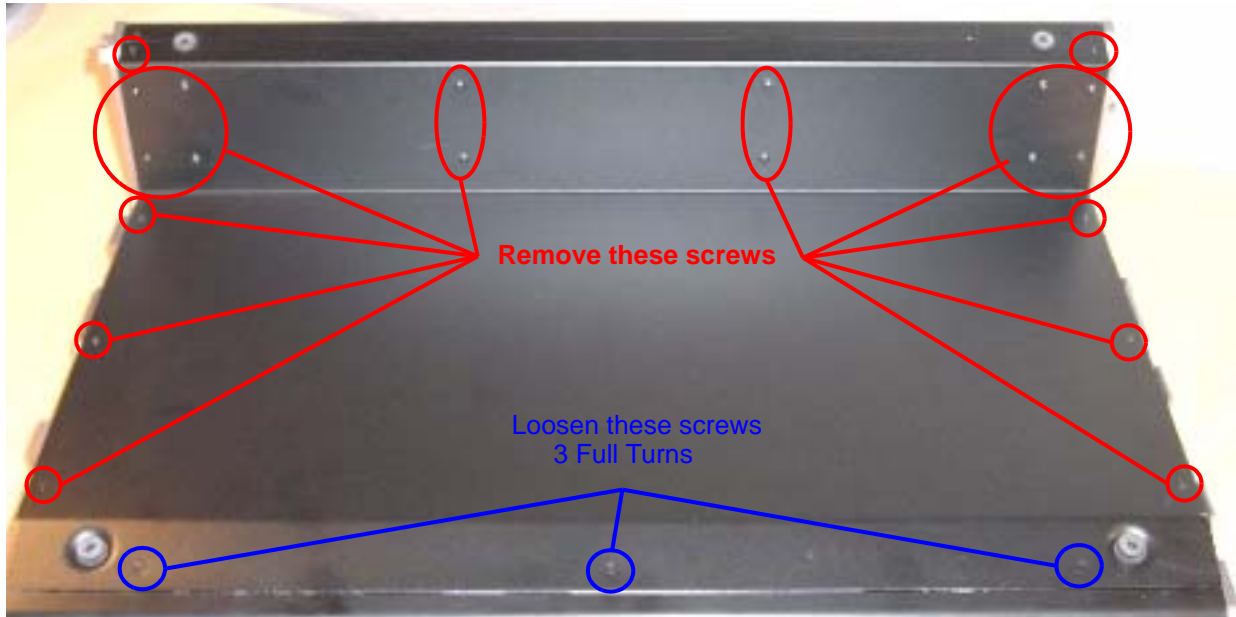
### Tools Required:

#1 Phillips Screwdriver

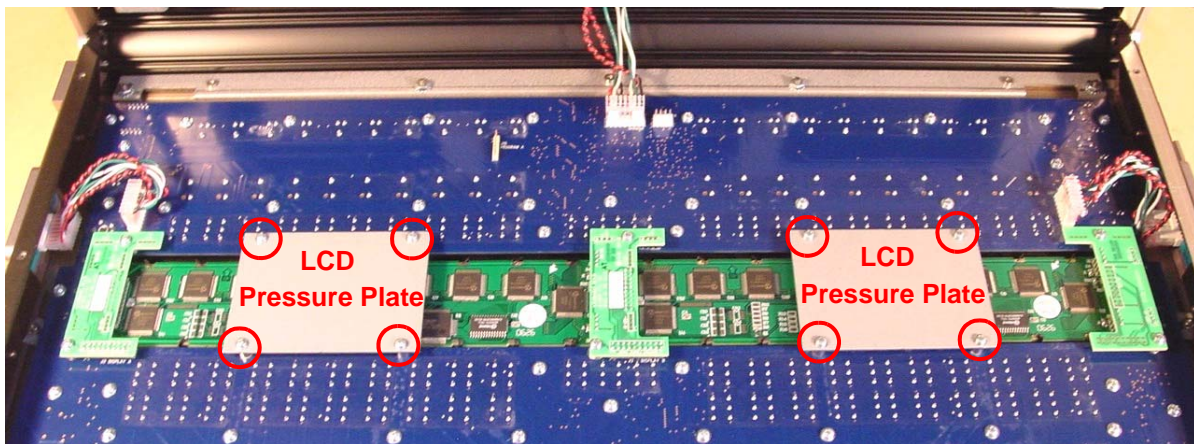
### Procedure:

- Step 1: Remove the protective side panels from the Congo jr Master Wing.
- Step 2: Place the master wing face down exposing the back side.
- Step 3: Remove the 20 screws indicated in **Red** below.
- Step 4: Loosen the 3 screws indicated in **Blue** below.

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



- Step 5: Remove the master wing bottom plate and set it aside
- Step 6: Remove the 8 screws from the LCD Pressure Plates. Set the screws and plates aside.

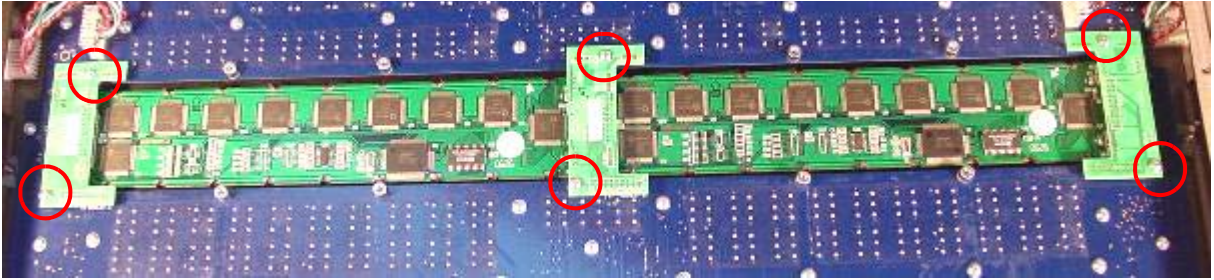


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Step 7: Remove the 6 screws holding the LCD Jumper board in-place.

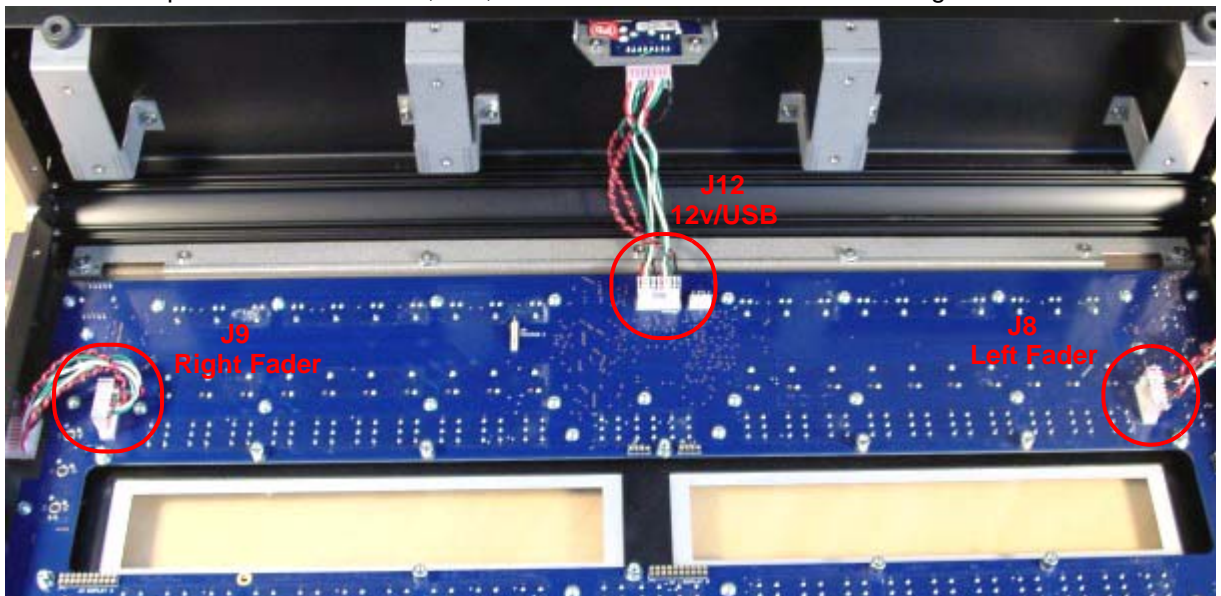


Step 8: Gently lift up all 3 Master LCD jumper boards; removing all the pins from each socket.

Step 9: Lift both LCD Screens from the center and gently lift the screens away from the master wing.

Step 10: Set the pair of LCD screens aside

Step 11: Remove the J9, J12, and J8 headers from the Master Wing Main Board.



Step 12: Remove all 50 #1 Phillips head screws from the mainboard.

Step 13: Swap out the Master Wing main board for the new board.

Step 14: Attach all 50 #1 Phillips head screws back into the master wing.

Step 15: Re-connect each of the J9, J12, and J8 headers at the master wing main board.

**Note the cable orientation pictured above.**

Step 16: Place the 2 screens back into the Master Wing. Line up all of the pins on each of the 3 LCD jumper boards.

Step 17: Once the pins are aligned with the Master Wing main board, gently press each board into the socket.

Step 18: Secure each of the 6 screws back into the LCD jumper board, connecting them to the standoffs.

Step 19: Place each of the LCD pressure plates back over the LCD Screens and place all 8 screws back into the appropriate holes.

Step 20: Place the Master Wing bottom plate over the back side of the Master Wing face panel. Re-attach and tighten all 23 Screws.

Step 21: Connect the Master Wing to the console and run the face panel diagnostics tests to verify proper LCD, fader, and button operations.