

Power Master Battery Replacement for the 7xxx Analyzers

Power Master Battery Replacement instruction
for the 7xxx Analyzers P/N 29-100-1428-MI

REV: 2

Date: 02/26/2013

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Reviewed By:- Rick Ogan _____

Approved By:- Steve Hudson _____

Power Master Battery Replacement for the 7xxx Analyzers



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Required Tools



11/32 Nut driver



#1 Phillips screw driver

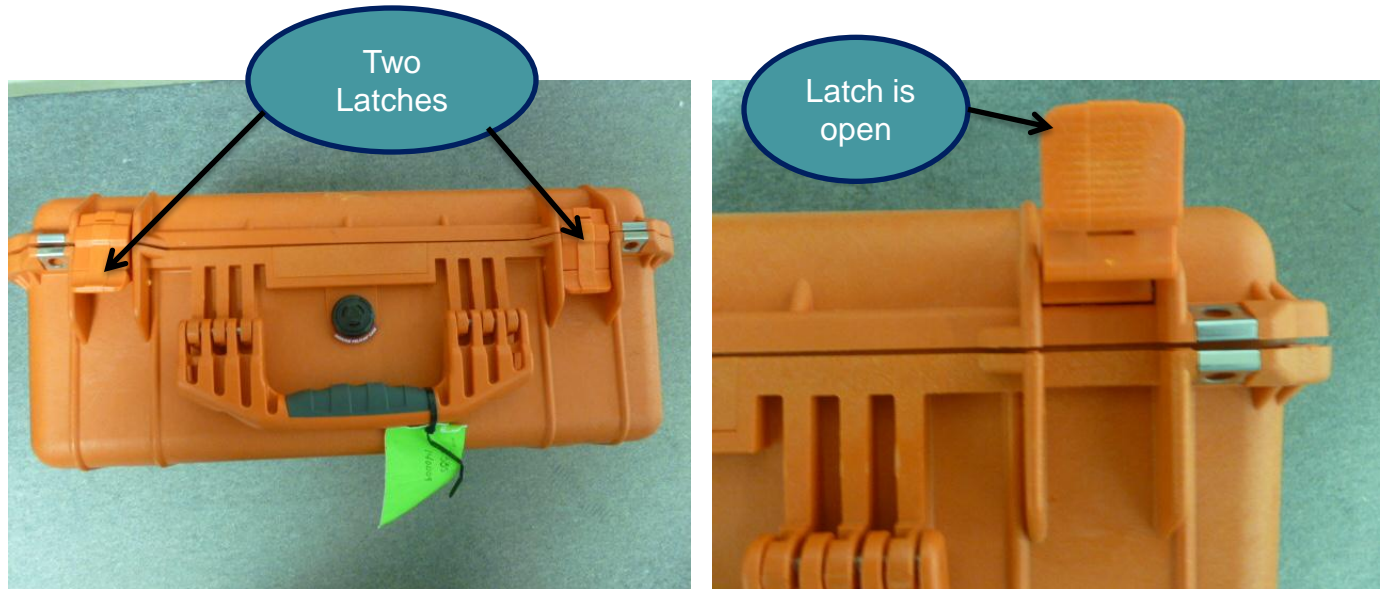


Flat Screw Driver



Long nose pliers

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1) Open the case by releasing two front latches

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Remove
screws

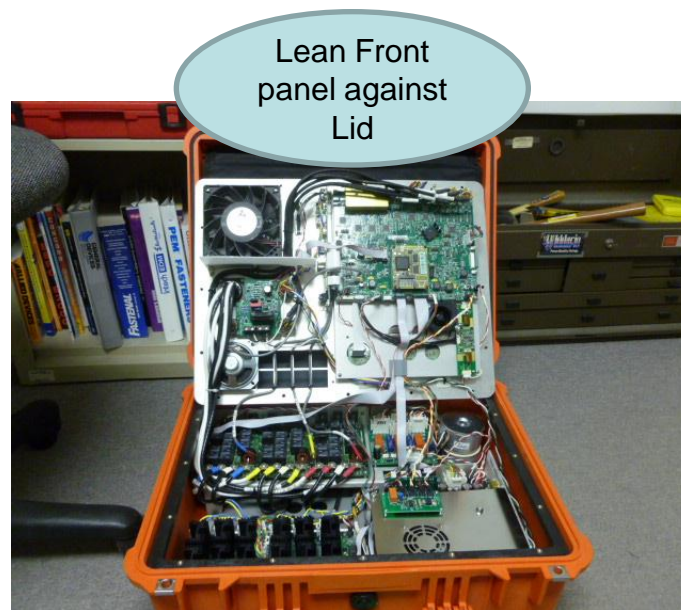
- 2) Remove the sixteen screws that holds the front panel to the case; use #1 Phillips screw driver

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3) Insert a flat screw driver between the case and the edge of the front panel and lift upwards

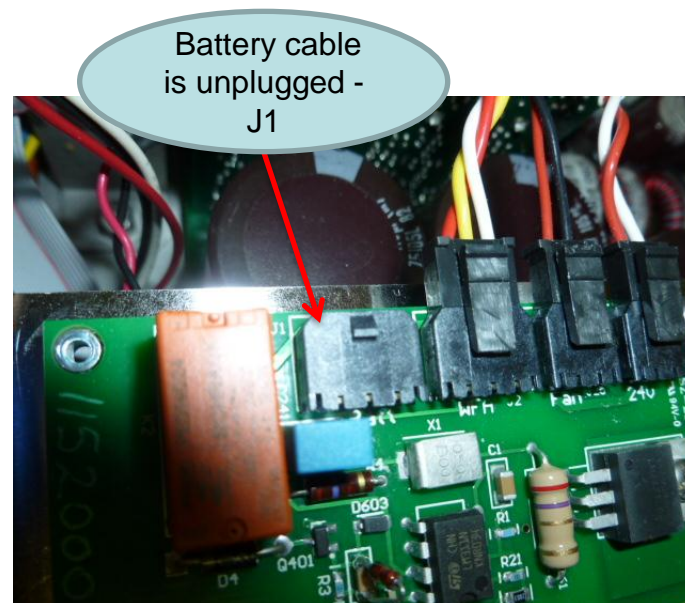
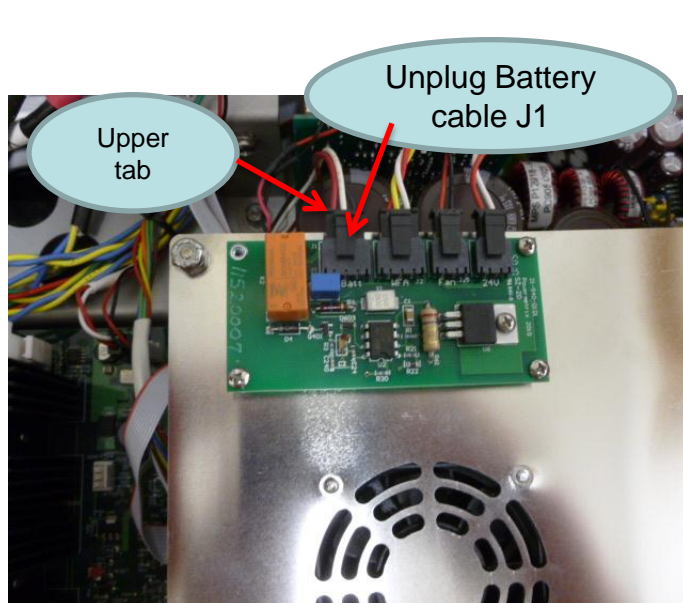
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4) Support the case top cover so that we can rest the front panel against the top lid

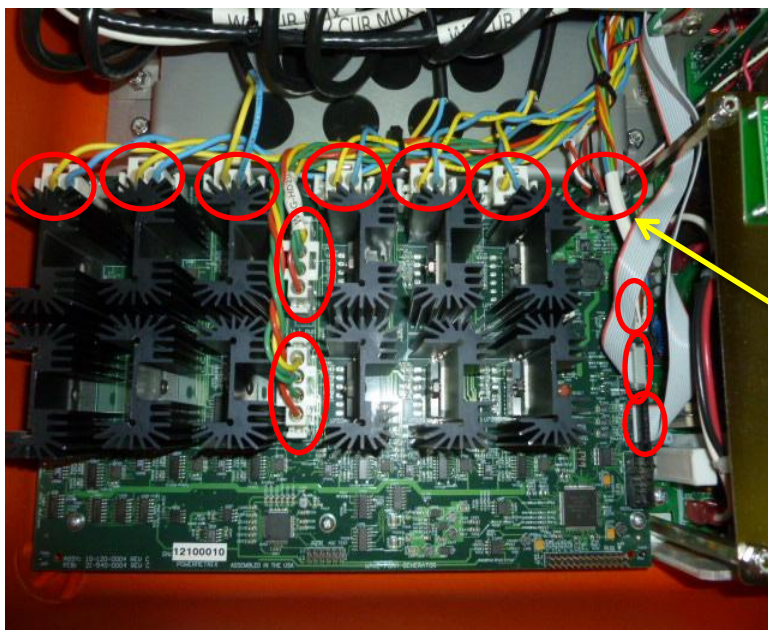
5) Bring the front panel forwards about 2 inches and carefully lean against the top cover of the case

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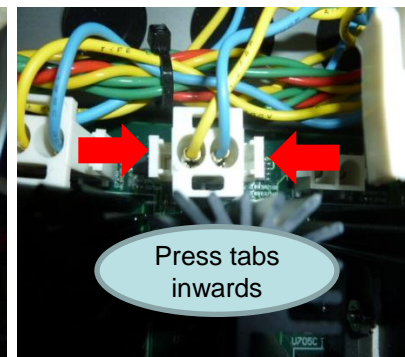
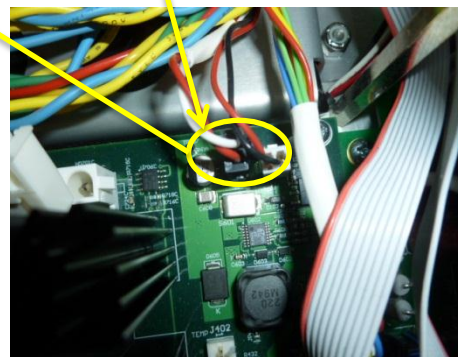


6) Unplug the battery cable J1 while applying pressure on the upper tab

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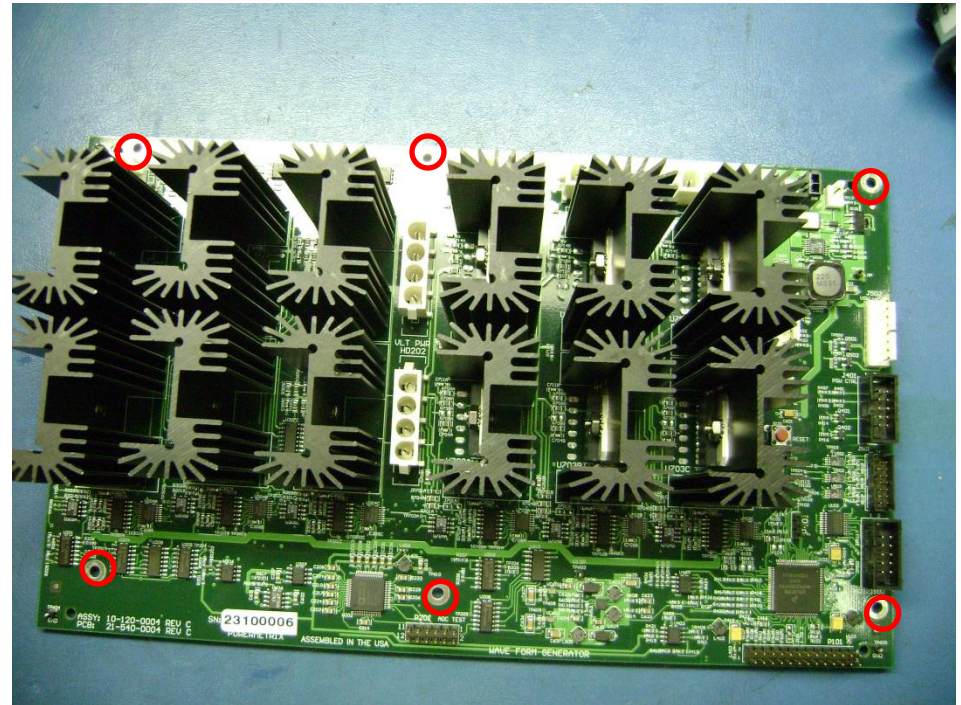
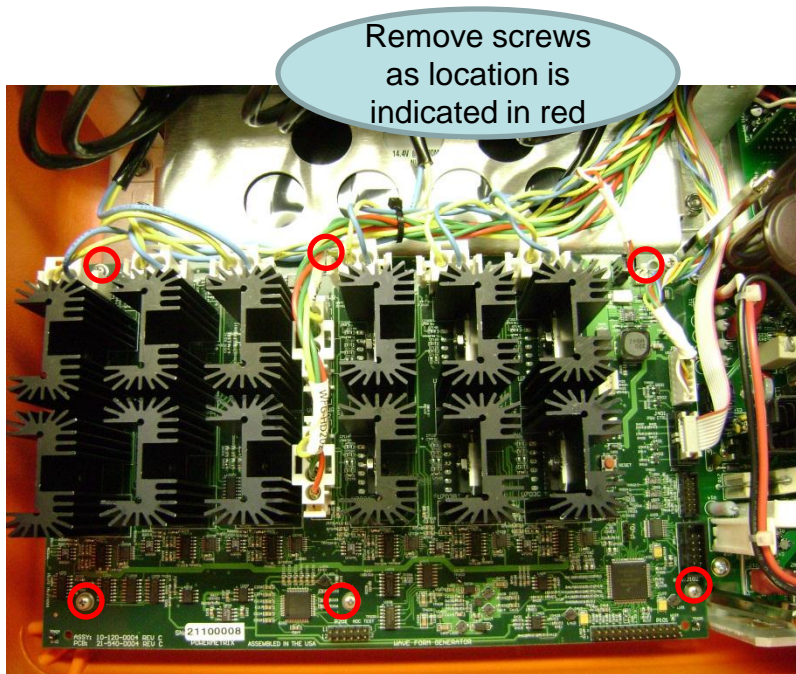


Two Connectors



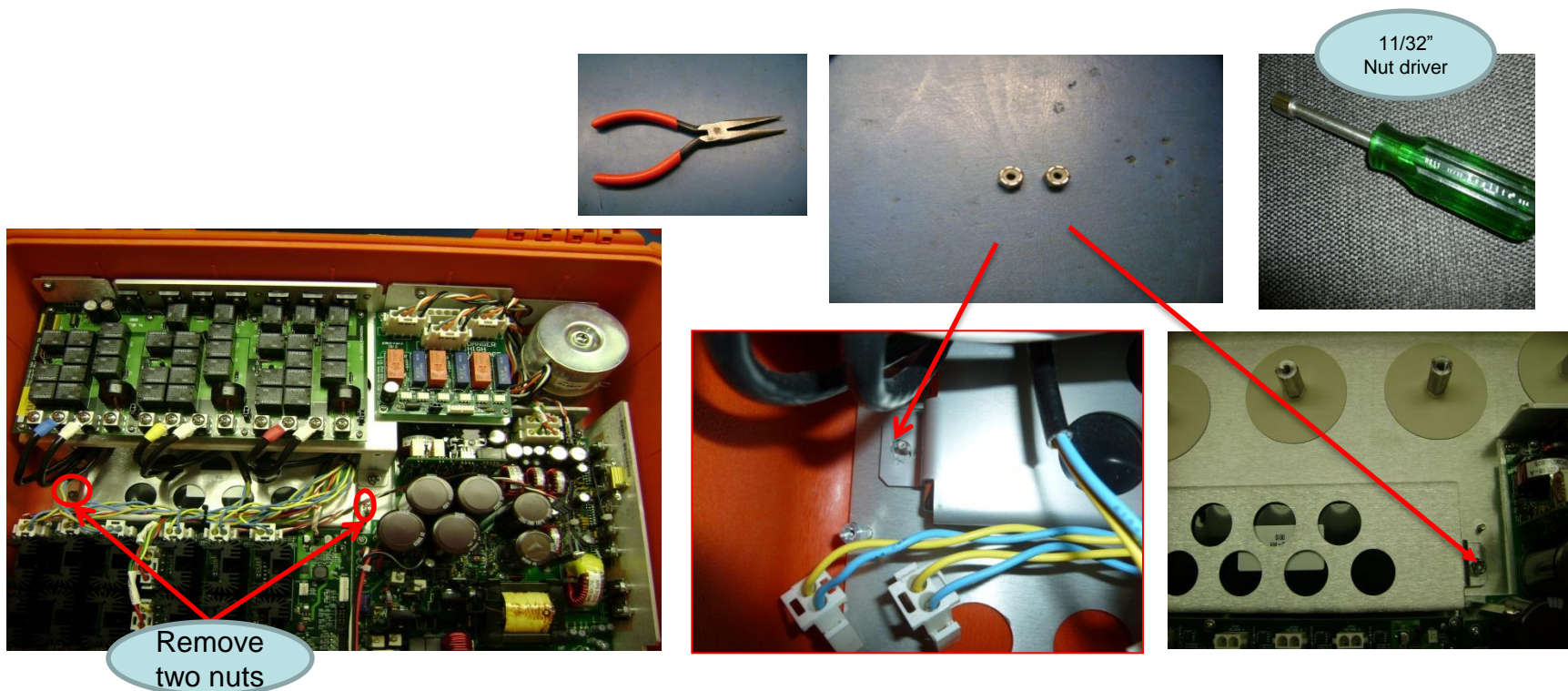
7) Remove the WFG Board assembly by Unplugging all connectors that are attached to the WFG Board as circled in red, see above photo

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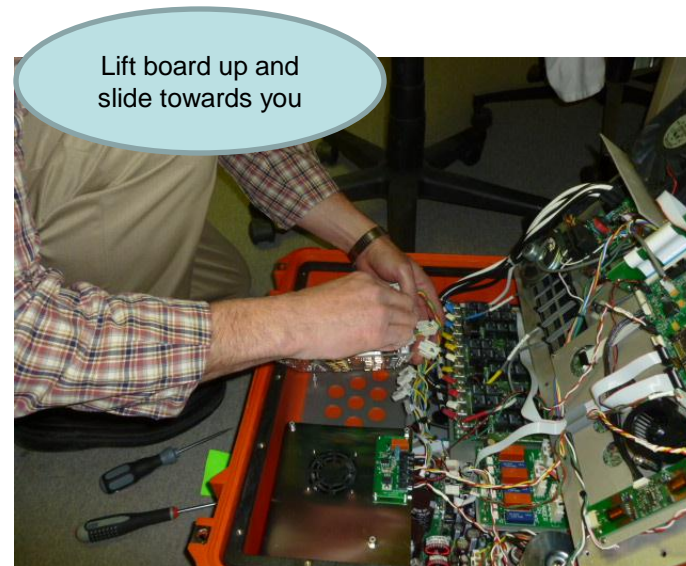
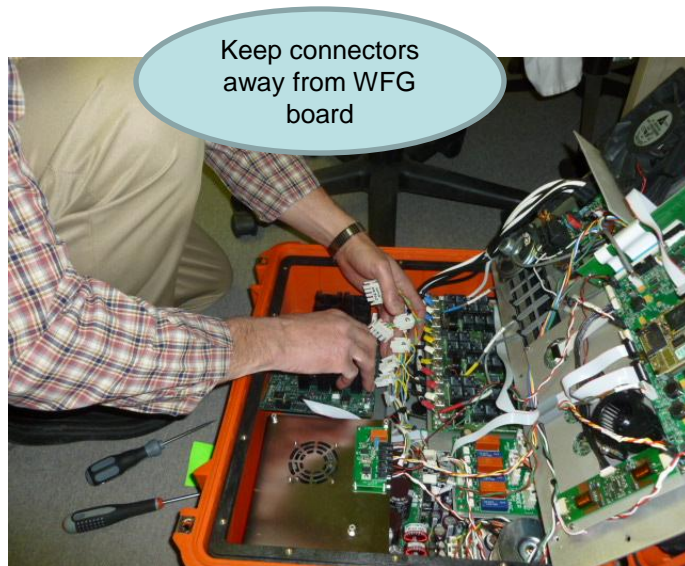
8) Remove six screws that are securing the board to bottom plate as circled in red

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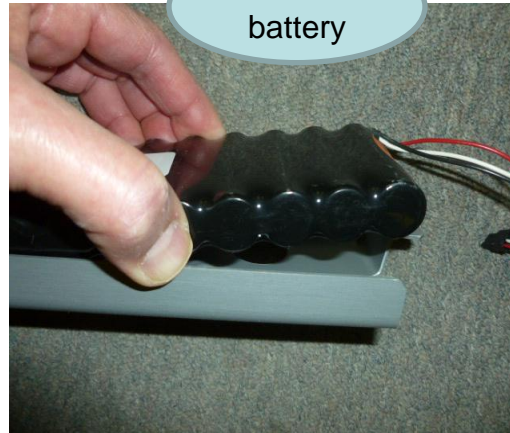
- 9) Remove two nuts that is securing the battery bracket to bottom plate; use 11/32" Nut driver & long nose pliers to retrieve nuts

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- 10) Lift up removed connectors to keep way from getting hung on the WFG component and with one hand while sliding the WFG board assembly towards you with the second hand

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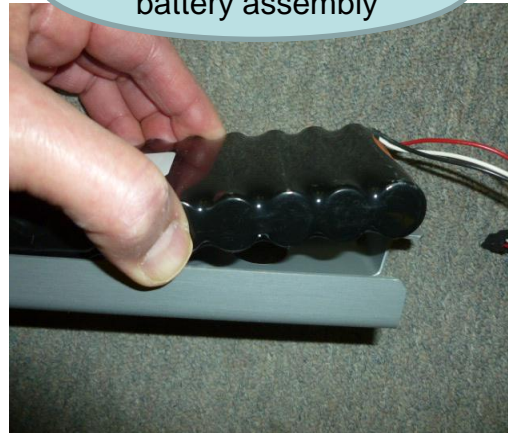
11) Remove the battery assembly, and lift away the battery from the battery bracket

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Replace battery
P/N 10-100-1428



Install battery into
battery assembly

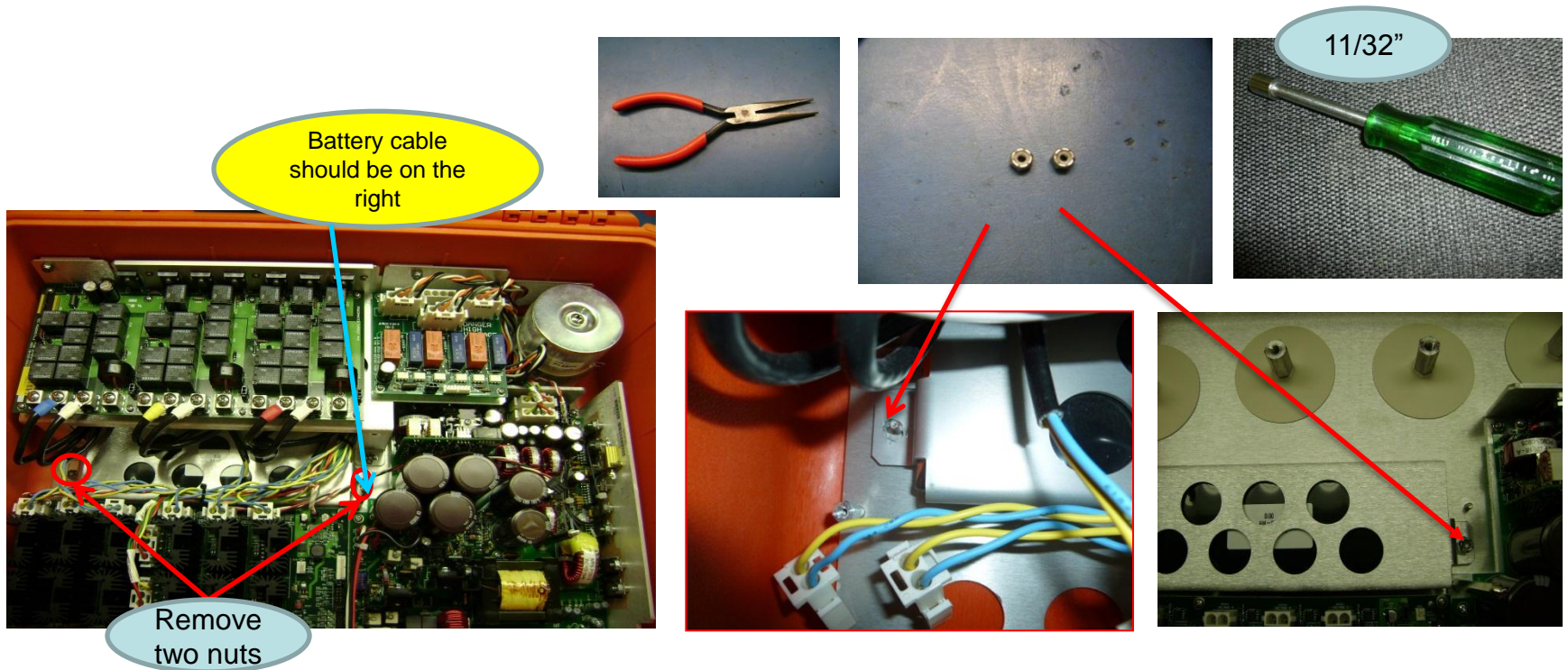


Note; Battery
cable location



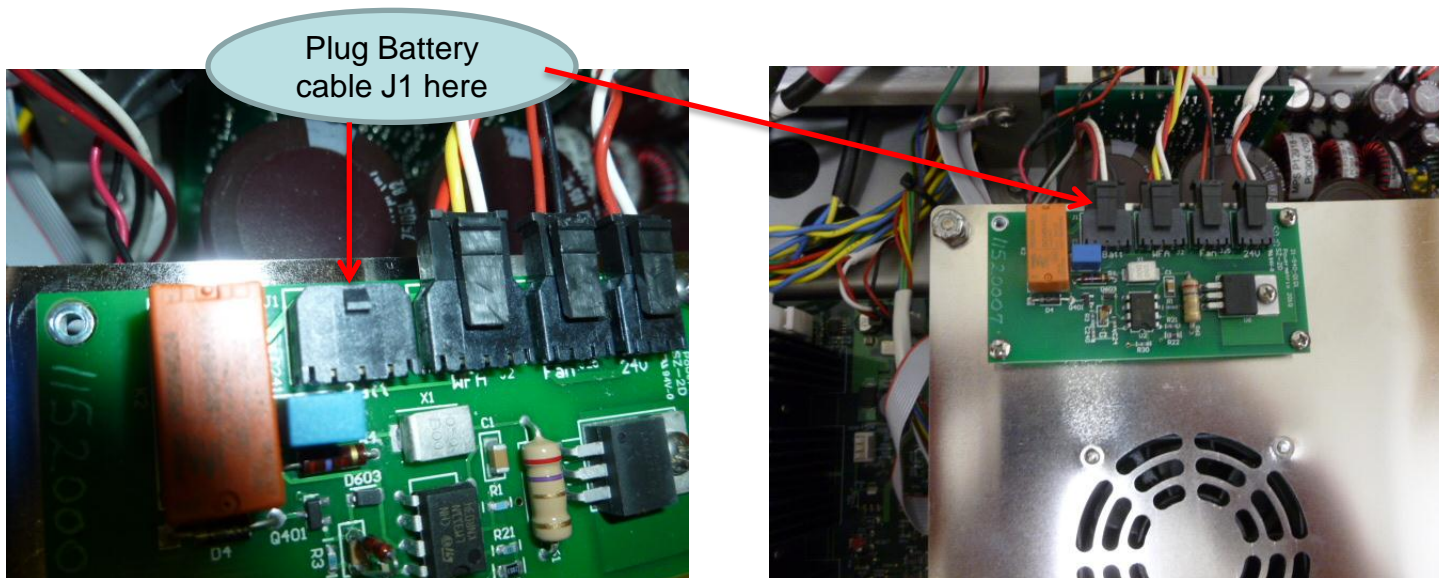
- 12) Replace battery into the battery bracket as shown above, make sure the battery cable in that location in relation ship to the battery bracket

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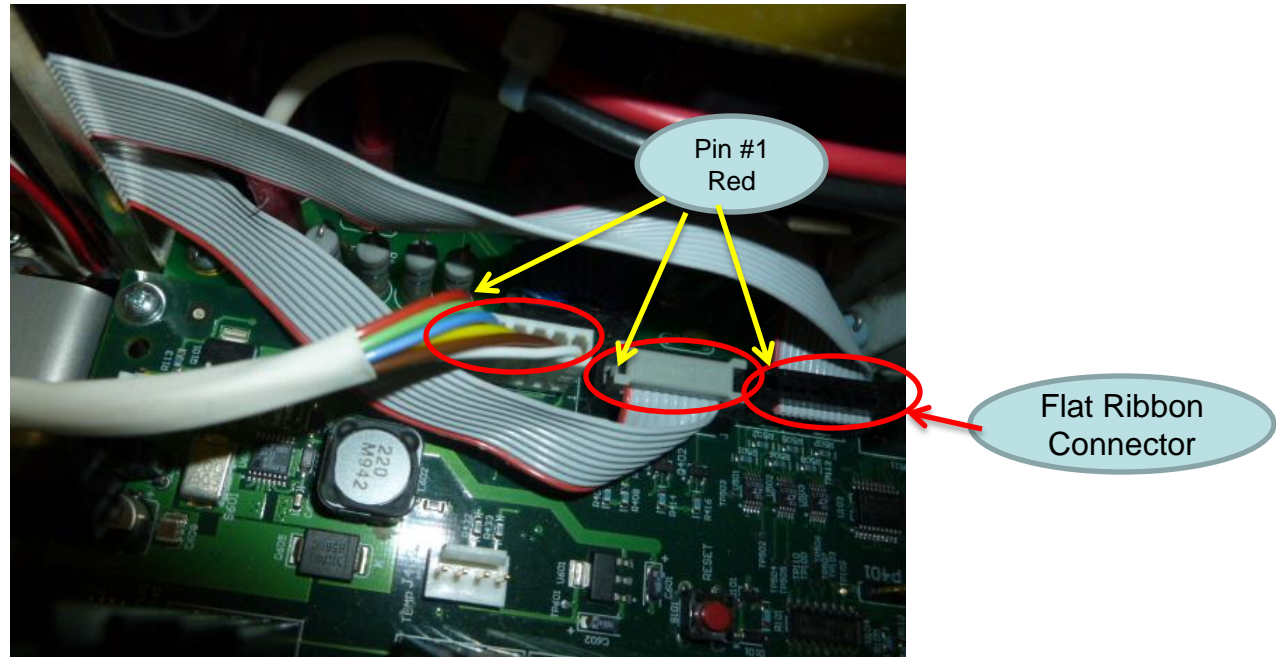
- 13) Re-install the battery bracket to bottom plate use long nose pliers to restart nuts, and to tighten nuts use 11/32" nut driver

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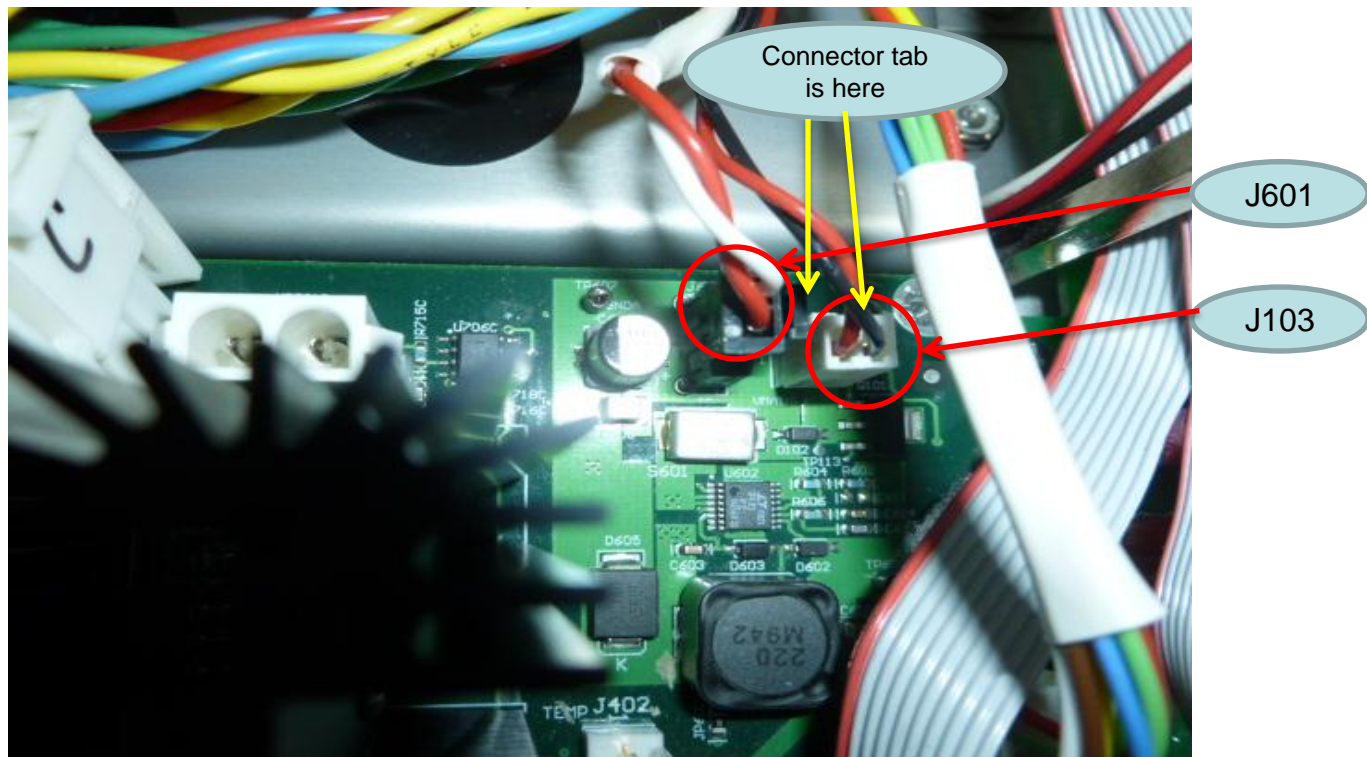
14) Reconnect the battery cable J1 to the charger board J1 connector

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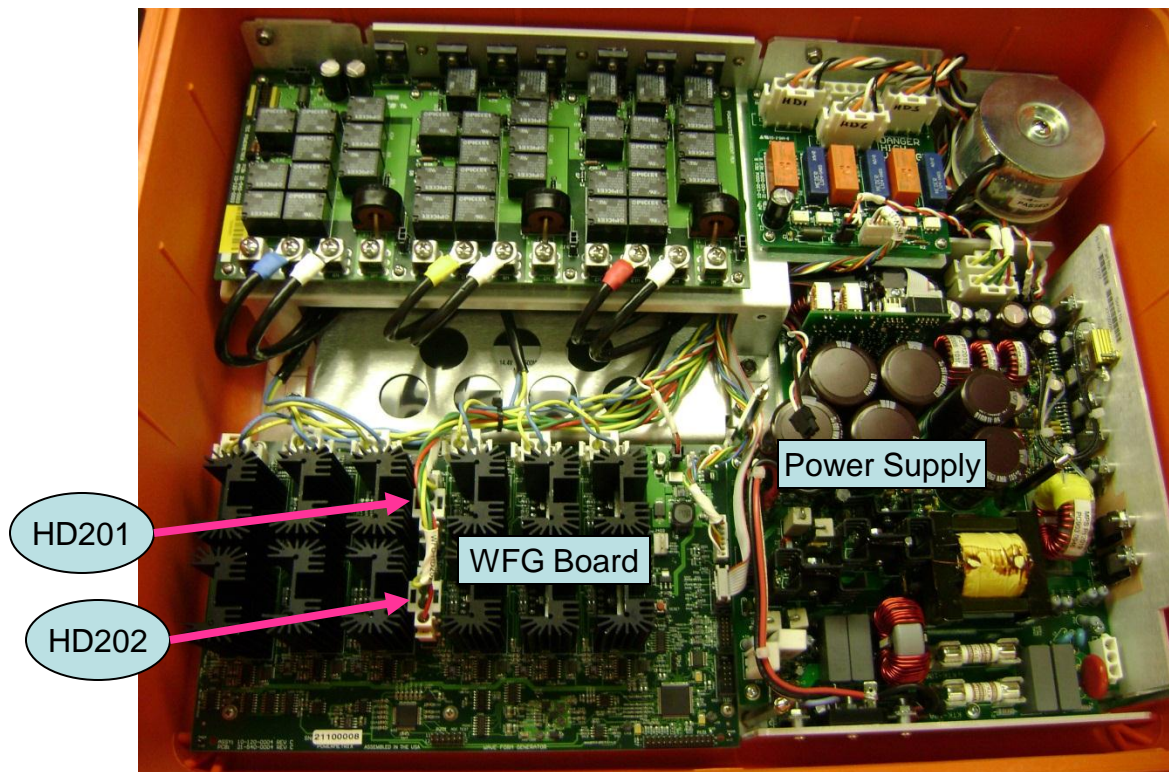
15) Reconnect flat ribbon connectors to the WFG board

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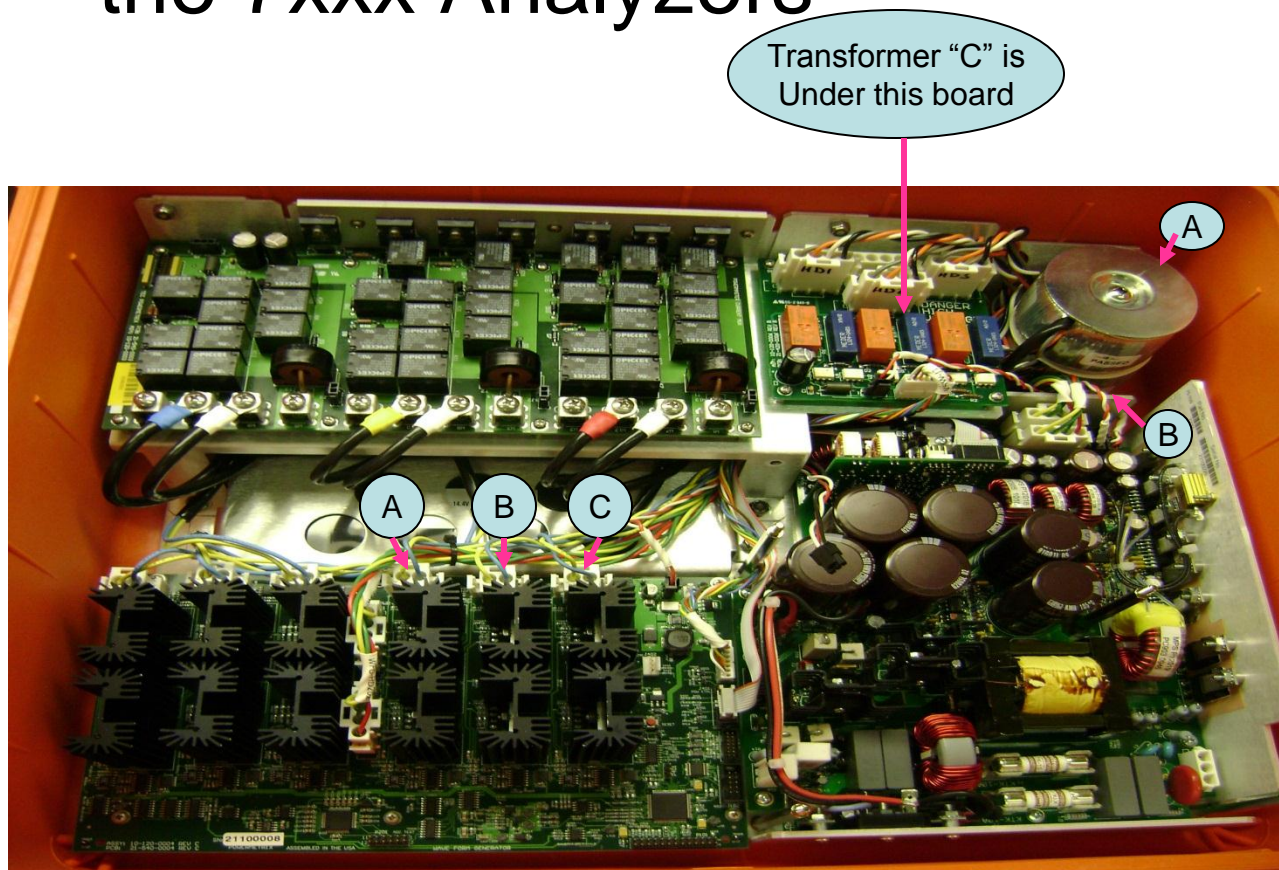
16) Connect connectors to WFG Board J103 & J601

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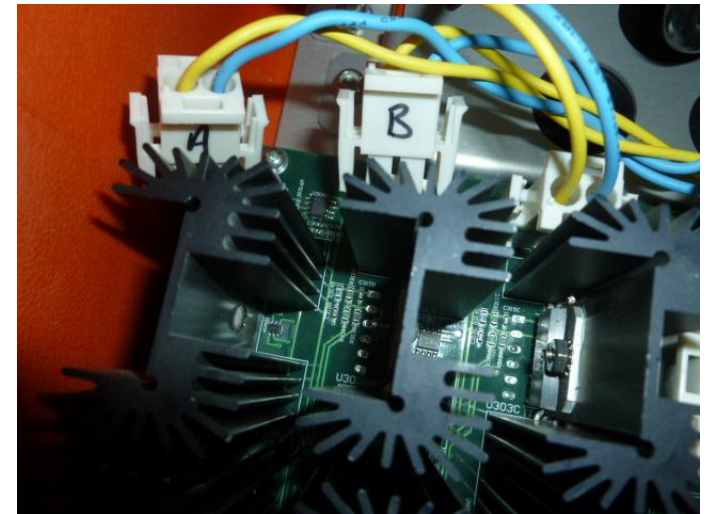
17) Connect to WFG board connector HD201 & HD202

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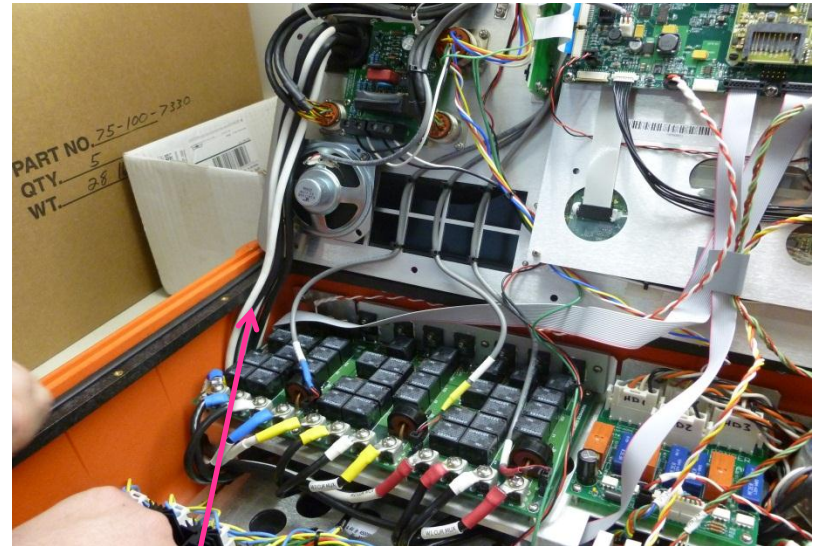
- 18) Connect the voltage transformers to WFG Board assy; Transformer "A" to HD701A, Transformer "B" to HD301B and transformer "C" to HD701C

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19) Connect Connector "A" to WFG Board Jack #HD301A, Connect connector "B" to WFG Board Jack #HD 301B, And connect connector "C" to WFG Board Jack # HD301C

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- 20) Keep the current cable wedged between the CMUX Board and the case wall

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- 20) Re-fold the front panel into the case and make sure that all cables are clear off the lid and the rim, gently push back to the inside of the case

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Install
screws

- 21) Re-install the sixteen screws that holds the front panel to the case; use #1 Phillips screw driver

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9S Meter

- 22) Check the unit by running “load box test” to “phantom load test” on a 3 voltage, 3 current meter such as 9S meter
NOTE:- If the unit cannot run a successful phantom load test, please recheck all connection on the WFG board (a swapped connector causes most phantom load failures)
- 23) The unit must be calibrated