

RACECLOCK, MODELS 507-6XL & 607-6XL BATTERY REPLACEMENT PROCEDURE

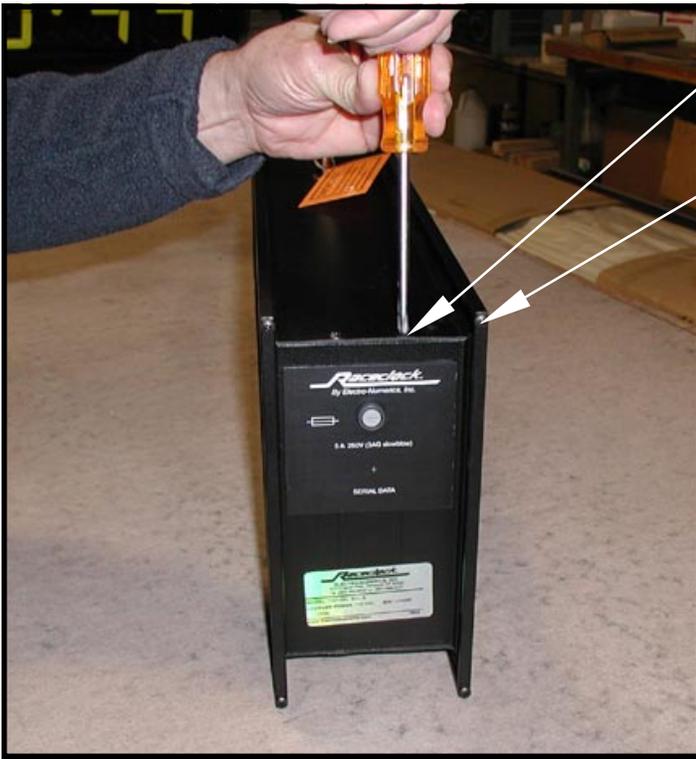
Raceclock models 507-6XL and 607-6XL, utilizes two internal sealed lead-acid batteries for clock operation. With fresh, fully charged batteries installed, the clock will operate for approximately 10 hours. These batteries, EN part number 860-005, are 6V and are connected internally in series to provide 12V operating voltage.



- 1) To replace the batteries, it is necessary to partially disassemble the clock. Tools required are a philips screwdriver, razor blade knife and 7/16" nut driver. The clock power switch should be in the OFF position.



2) Using a philips screwdriver, remove the 8 screws on the end of the clock that has the panel mount fuse. With the clock upright, remove the four screws on the top (2A), turn the clock over (2B) and remove the 4 screws on the bottom (2C & 2D).



(2) larger screws on top

(2) smaller screws on corners



Step 2A

Step 2B



Step 2C



Step 2D

- 3) **Carefully remove the end rail and place slightly to one side. Be careful of the wiring attached to the backside of the rail.**



- 4) **Slide the black plastic back panel and the window out of the clock. The window is only removed to prevent damage when replacing the batteries. Lay the clock down on the window side.**



- 5) **Remove the white power connector from the logic board.**



- 6) Move the battery charger power cord out of the way and then remove the two 1/4" battery clamp bolts.



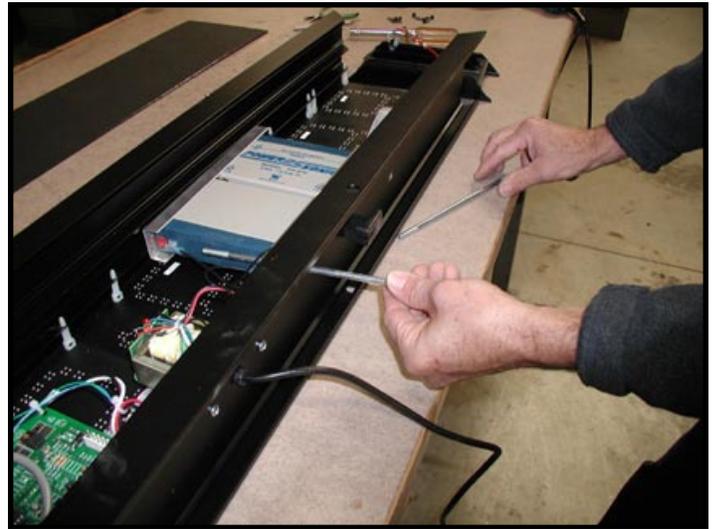
Move the battery charger power cord out of the way.



Remove the first battery clamp bolt.

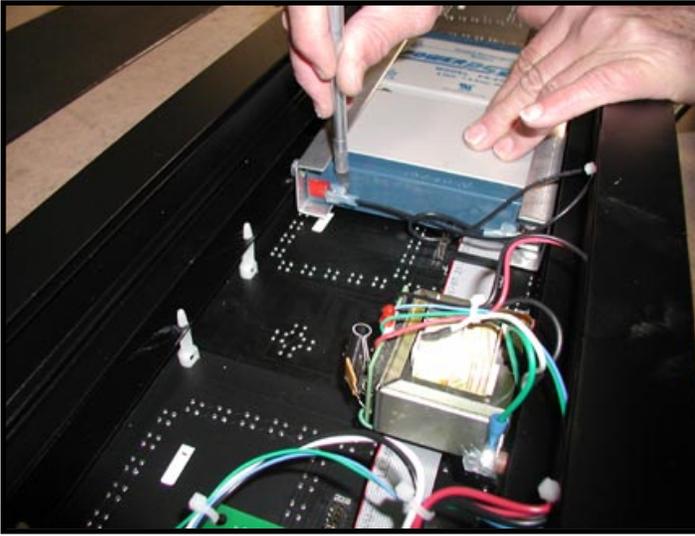


Remove the second battery clamp bolt.

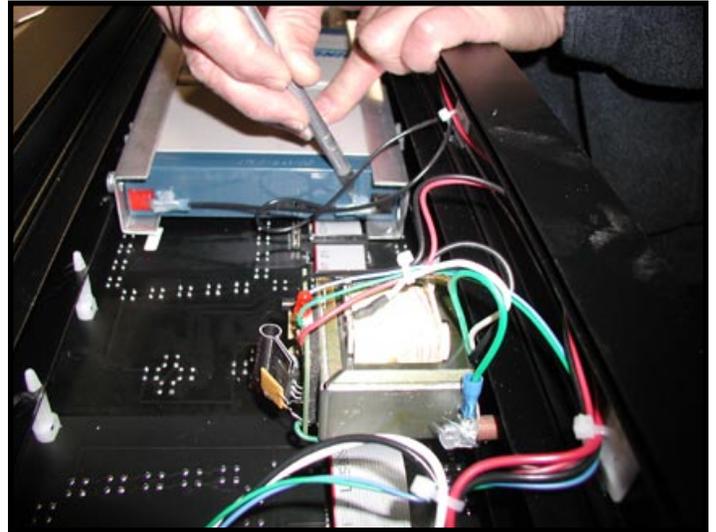


Battery clamp bolts removed.

- 7) Using the razor blade knife, cut the silicone holding the battery wires to the battery terminals.

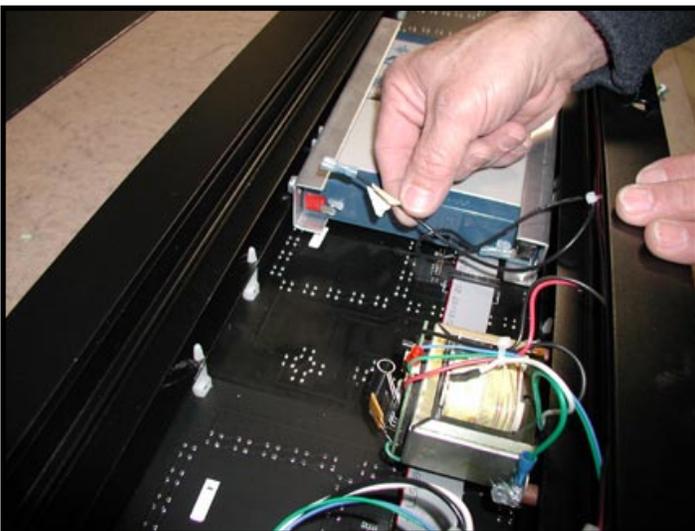


Cut the silicone.



Cut the silicone.

- 8) Tag (to ID) and remove the black battery ground wire from the red (positive) battery terminal. Before removing the battery pack, carefully note the orientation of the batteries. The batteries must be replaced in the same orientation as removed.



Tag (with tape) the black jumper wire & remove.



Carefully note the orientation of the batteries.

9) Remove the battery pack and the battery clamp top channel.

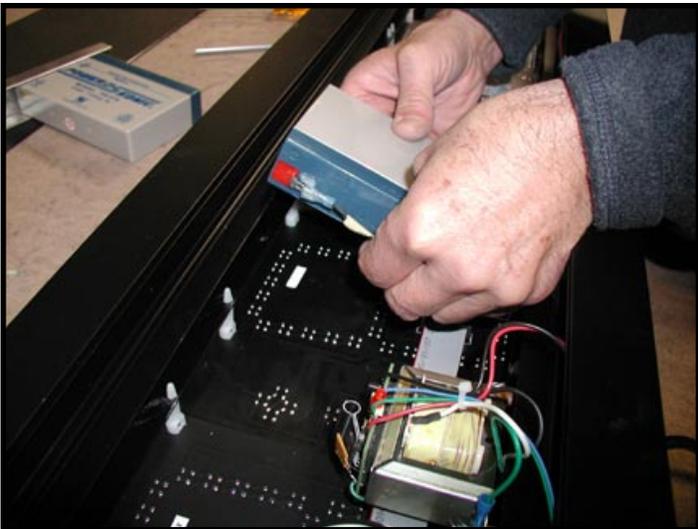


Remove the battery pack.



Remove the battery clamp top channel.

10) Remove all 4 battery wires.



Remove the battery power wires.

11) **Replace the batteries carefully noting the orientation of the batteries.**



Replace the batteries.



Replace the top battery clamp.

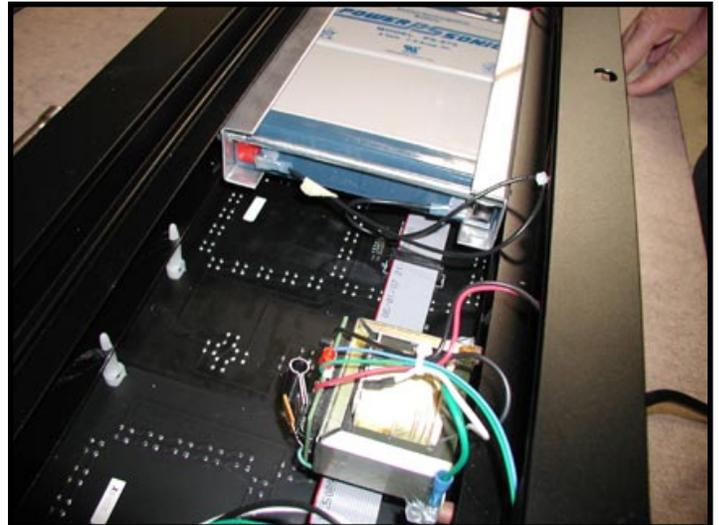
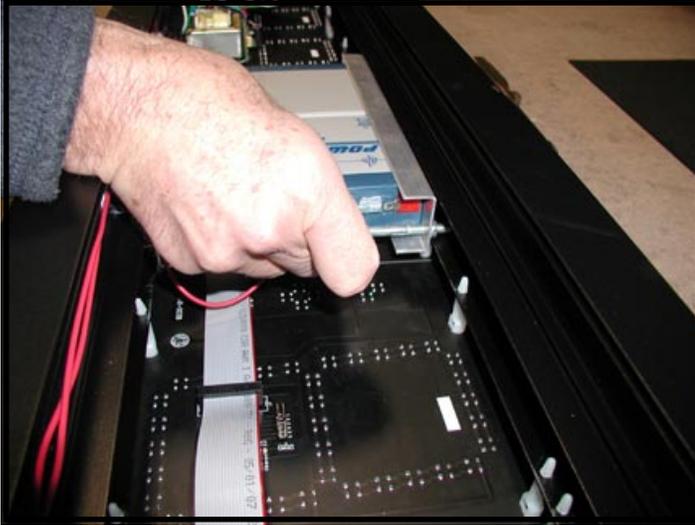


Replace the battery bolts.

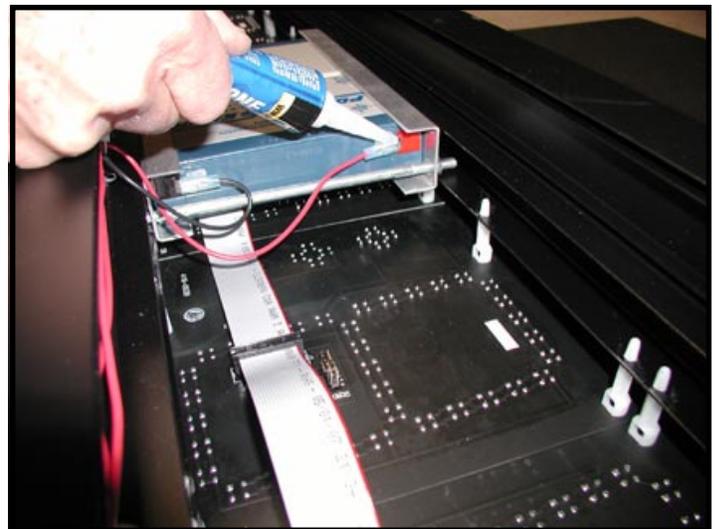
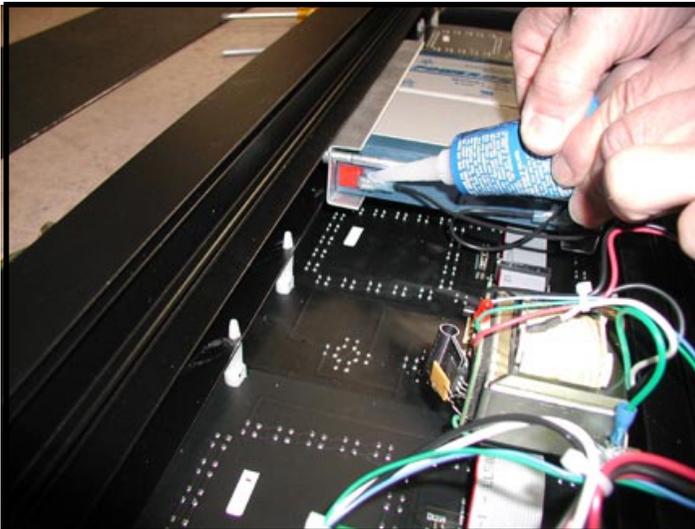


Gently tighten the bolts.

- 12) Reconnect the battery wiring to the battery terminals and apply a small amount of silicone to retain the terminals to the batteries.

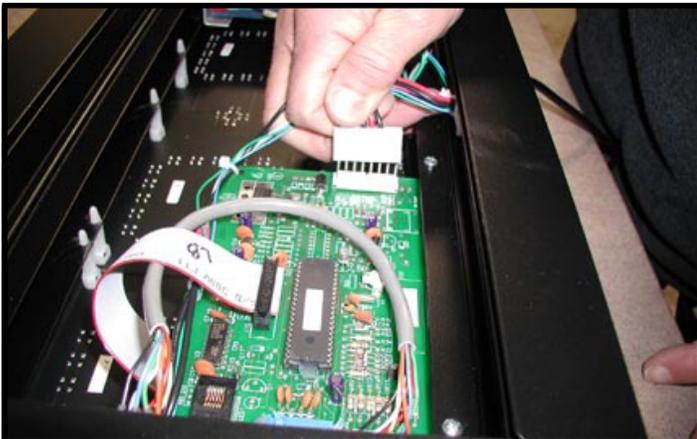


Replace the 4 battery wires being sure the black wire with the “tag” is connected to the red (positive) terminal as shown.



Place a small amount of silicone between each of the battery terminals and the battery.

13) Reconnect the white power connector to the logic board. Turn the clock upright and turn on the clock power switch to test the clock operation.



Connect logic board power connector.



Test clock operation before final assembly.

14) Replace the window and back panel and the end rail.



Install the back panel and window.



Replace end rail.

15) Replace the 2 top corner screws and the larger center screws.



Replace the two top (smaller) corner screws.



Replace the two top (larger) center screws.

16) Replace the 2 bottom corner screws. Turn the clock over and replace the two bottom center screws.



Replace the two bottom (smaller) corner screws.



Turn the clock over.



Replace the two bottom (larger) center screws.

- Battery Replacement Is Complete -



Electro-Numerics, Inc.
42213 Sarah Way, Temecula CA 92590
Tel: 800-854-8530 or 951-699-2437