Replacing the DataBank Battery

Note: These instructions are only applicable to DataBank units with serial numbers below 2900225. Units will serial numbers 2900226 and above will need to be repaired by Turner Designs.

Material Required:

DataBank Battery (Turner Designs P/N 800-2900)	Qty 1	
Self -Sealing Screws (Turner Designs P/N 075-0209)	Qty 2	
8" Long Tie Wraps (Turner Designs P/N 081-2900)	Qty 2	
Desiccant Bag (Turner Designs P/N 141-0300)	Qty 1	
Marine Adhesive (Turner Designs P/N 800-0101)	Qty 1	Optional

Tools Required:

Phillips Screwdriver
Diagonal Cutters
ESD (anti-static) Wrist Strap or equivalent

Instructions:

1. Remove the 4 screws, Ref 1E, that secure the handle, Ref 1D, to the housing, Ref 1 A. Refer to Figure 1.

2. Slowly pull the handle, Ref 1D, away from the housing about 1" (2.54 cmn). The Barrier Board, Ref 12, and Barrier Board Cable, Ref 11, will now be exposed. Carefully disconnect the Barrier Board Cable, Ref 11, from the edge connector, J3 (refer to Figure 3), on the DataBank CPU PCB Assembly contained in the housing. Refer to Figure 1.

3. Store the Handle, Screws, Barrier Board, and Barrier Board Cable in a secure place.

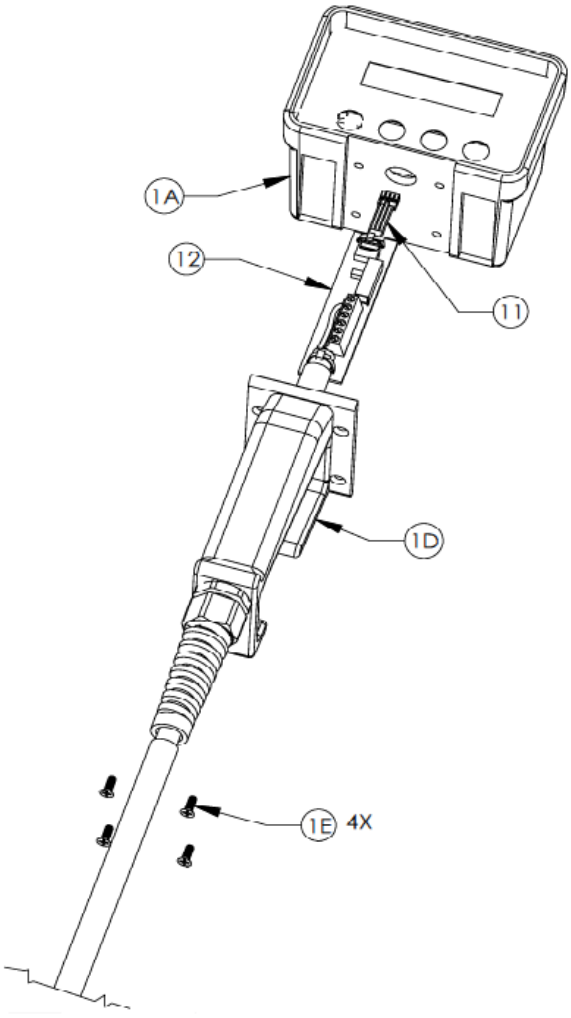
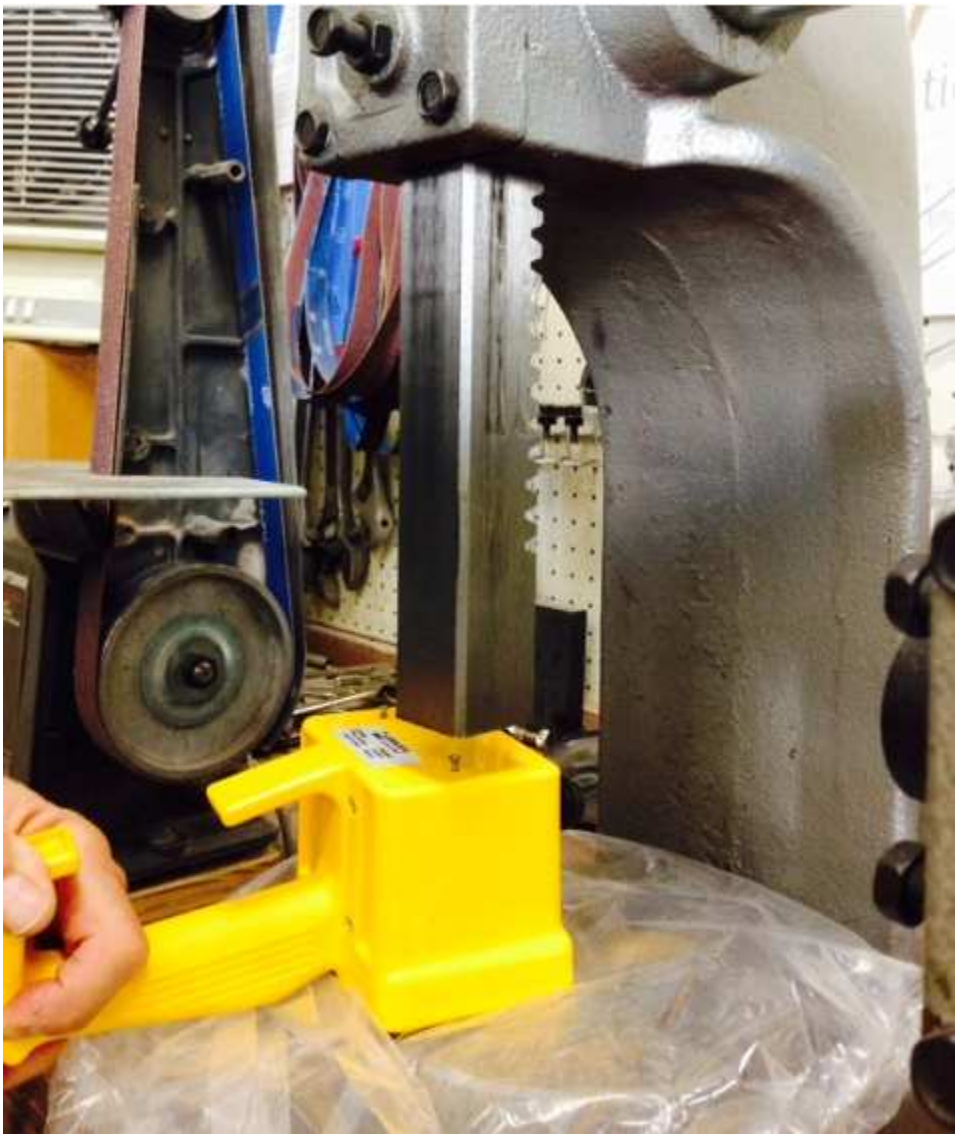


Figure 1.

4. After you have removed the handle, loosen the screws on the back of the DataBank but do not remove them. Leave them raised approximately 1/4”.

5. Use a solid surface to apply pressure to the screw heads that will push the internal battery and PCB assembly forward in the housing which will separate it from the sealing material. Use a machine press

or similar platform to apply pressure to the screw head.



6. Remove the 2 self-sealing screws, Ref 10, that secure the CPU Assembly, Ref 7, to the Housing, Ref 1A. Discard screws. Refer to Figure 2.

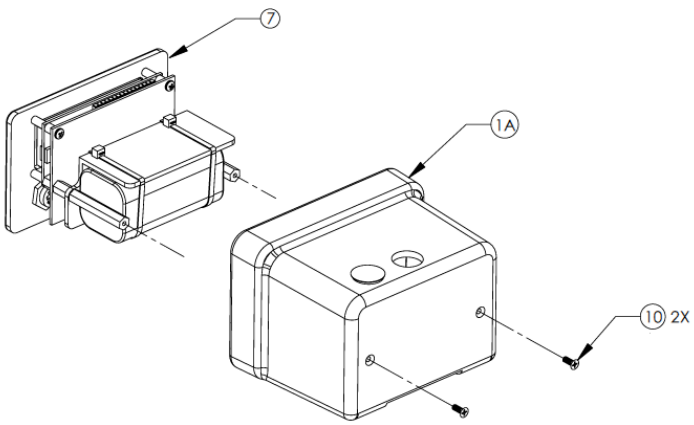


Figure 2.

7. Carefully remove the CPU assembly, Ref 7, from the housing as shown in Figure 2. Not shown are the cable(s) from the bulkhead connectors that are now exposed. Disconnect the Bulkhead Cable Connector from J2 of the DataBank CPU PCB. Refer to Figure 3.

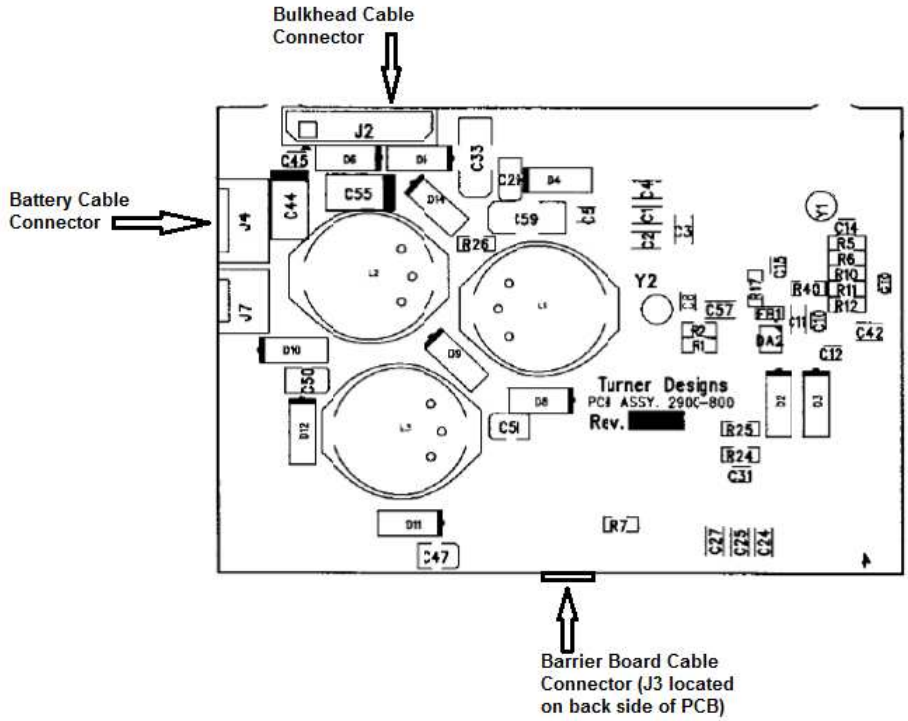


Figure 3.

8. The Databank Battery is secured to the battery bracket, Ref 15, on the DataBank CPU assembly as shown in Figure 4. Locate the battery cable on the battery. Disconnect the battery cable connector from J4 of the DataBank CPU PCB (refer to Figure 3). Remove the Desiccant Bag and cut the tie wraps, Ref 18, that secure the battery to the battery bracket, Ref 15.

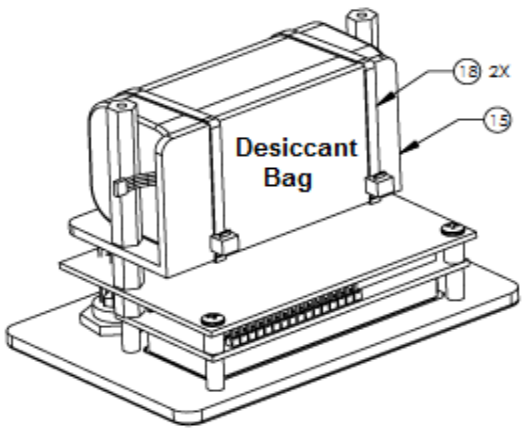


Figure 4.

9. Install the new battery onto battery bracket. Ref 15, and secure with new tie wraps, Ref 18. Connect the battery cable connector to J4 of the DataBank CPU PCB. Install new Desiccant Bag onto foam tape on backside of battery bracket, Ref 15.

10. Install bulkhead cable connector into J2 of the DataBank CPU PCB. Install CPU Assembly, Ref 7, into housing, Ref 1A. Apply a thin layer of marine adhesive or RTV to threads of 2 new self-sealing screws, Ref 10 (optional). Install and tighten self-sealing screws, Ref 10, into back of housing to secure CPU assembly. Refer to Figure 2. If applicable, wipe away excess marine adhesive or RTV from housing.

11. Install Barrier Board Cable (connector), Ref 11, into the edge connector, J3, of the CPU Assembly, Ref 7, through the hole in the housing, Ref 1A. Refer to Figure 1. Fold Barrier Board Cable to allow edge of Barrier Board to butt up against bottom of Housing, Ref 1A.

12. While holding edge of Barrier Board, Ref 12, against bottom of housing, carefully slide Handle, Ref 1D, over the Barrier Board and Barrier Board Cable, Ref 11, and secure with 4 screws, Ref 1E. Refer to Figure 1.

13. DataBank is now ready to be powered up.