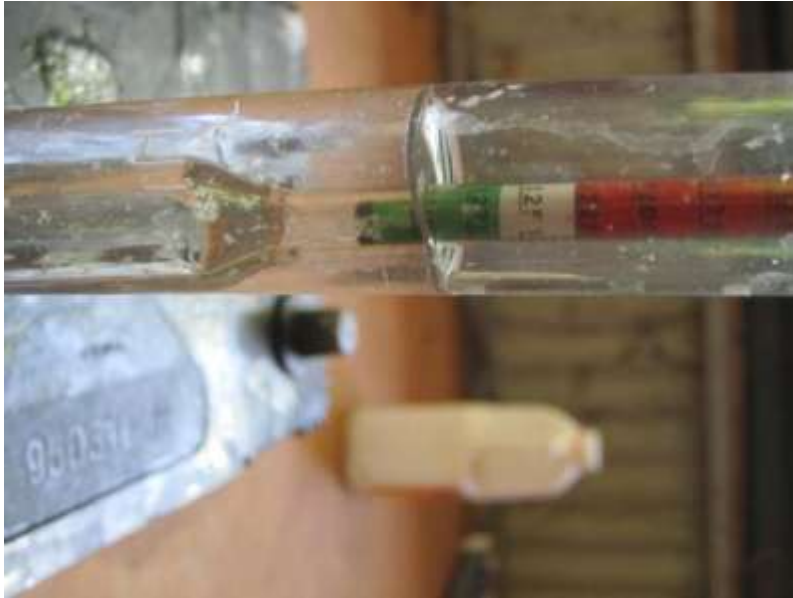


Back yard battery desulfation with special chargers:

I have several commercial battery chargers which were unable to charge this 6 cell 12v battery which was headed for the tip. I made my own charger and here are the results.

Start	12.5	12.25	12.5	12.25	12.3	12.25
After Charge	13.00	13.00	13.00	12.95	13.00	13.00
Water Added	All cells	Below	12.00			
On charge 1 day	13.00	12.8	12.75	12.5	12.95	12.75
Final State (standard 14.7v charge)	12.75	12.75	12.95	12.5	12.95	12.95





Originally the battery would register a surface charge but this would not affect the specific gravity of the battery. The batteries plates were completely sulfated and the charging current was minimal.

After charging with my charger the cells registered an improvement reading around 13.00 however the electrolyte level was low and after topping up registered below 12.00.

Once reconnected to my special charger for approximately 2 days the plates showed as nice brown colour and had lost their sulfation coating. However cell 4 is bad and hasn't registered much improvement.



Below are approximate CCA readings. One is with a commercial unit which I rewired after it caught on fire, the other is with a unit I made that uses a shunt to measure amperage. The shunt is about +/-10% accurate. This readings show the battery improving after each lot of desulfation.

100A 1000CCA Tester	Shunt Short Circuit
200CCA 10s unstable	
400CCA 10s unstable	
400CCA 20s stable	3.62v – 3.26v (multiple by 98 = 354A to 319A) 10 second load



I did not have the CCA tester before I recovered this battery so I do not know the original CCA of the battery. I have recovered other maintenance free batteries but cannot access more than one cell for voltage and specific gravity reading.

