



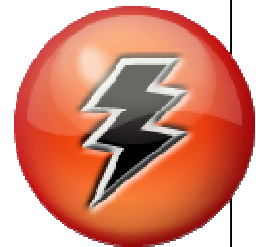
The most important part of your DBA pool table



“If your battery ain’t happy, nobody’s happy”

THE BATTERY IS THE HEART OF YOUR DBA POOL TABLE. Your battery has to be in good condition if you want good collections from your table.

To start, make sure your battery has a full charge prior to putting it into service. Even though your battery is fully charged when it leaves our facility, just sitting in the table will allow some discharge from the battery. If a month passed from the date of production to date of shipment to your distributor, than an additional month passed before the table was shipped to your location, your battery could be at less than 60% of a full charge.




Please be sure to **FULLY** charge your battery prior to putting it into the table. This process takes at least 14 hours if the battery is not hooked up to the table, we recommend a 24 hour charge. If the table is in play mode, we recommend a 36-hour initial charge.



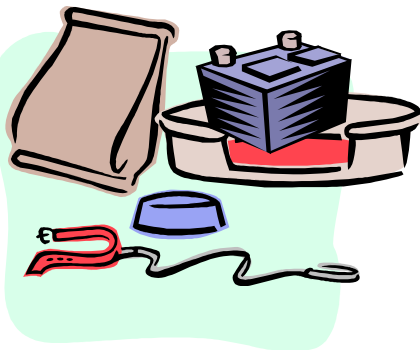
BATTERY SCIENCE 101: Imagine charging a battery like filling your fuel tank. You can run the gas pump at full blast and your tank *almost* fills all the way up. Then the pump clicks off. Is your tank full? *Almost*. To get your tank completely full, you need to use a series of small pumps, dealing with a few more auto shut-off's from the pump, maybe shake the car a little bit to get the air bubbles out of the fuel system, it is a time-consuming process. You cannot rush it.



The important difference is that your fuel tank runs exactly the same whether it is completely full, almost full, half-full or even had just a gallon of gas. Batteries are more complex...

- ⚡ Not charging your battery completely will cause damage to the battery—imagine if by not filling up your car with gas completely, over time your car could never be completely filled with gas!
 - ⚡ Your battery will not perform as well as the charge is depleted—imagine if your car only went half as fast with half a tank of gas.
 - ⚡ Your battery will suffer damage if significantly discharged—imagine if running your car down to $\frac{1}{4}$ tank caused **permanent damage** to your engine.
 - ⚡ You cannot “overfill” your battery
 - ⚡ Unlike your gas tank, you can not “top off” your battery if it is a volt low. 
- Plugging it in for a quick one-hour charge will not do the job.

Your battery performs best with a full charge. Allow for the full 14 hours to charge your battery. You cannot overcharge a lead-acid battery. Avoid the unnecessary expense of replacing batteries that could have been saved. Batteries are not that expensive, but they



PROPER CARE AND FEEDING OF YOUR BATTERY will help you to use all the features, reap all the benefits, and above all realize all the potential revenue gains from your DBA pool tables.

We recommend giving your batteries a full charge at least once every 3 weeks. In nearly any application your battery should hold sufficient charge for at least this long to avoid any damage, plus this enables you to develop a schedule for recharging or swapping batteries with pre-charged replacements.

When the voltage on your battery drops to 11.5 volts or lower, you will see a “Low Battery” warning on the table’s LCD Display. Instruct your location to notify you immediately if this warning appears so that you may charge or change the battery promptly to prevent permanent damage. If the battery is allowed to drop below 10.5 volts, it will become damaged and will no longer hold a full charge. It may even show 12+ volts, but will no longer be capable of generating enough amps to keep your system going for more than a couple days before going dead again. (We’ll discuss testing in greater detail shortly).

We’ve manufactured thousands of Bill Acceptor tables have just about “seen it all.” More often than not, a battery that will “no longer hold a charge” was not the battery’s problem, it was not charged regularly, or sufficiently, or at all.

HOW TO DO IT – If you have two pool tables on a location where you collect at least every two weeks, keep a spare battery on charge in a video game, juke box or pinball machine. When the collector is there, have them swap the fully charged battery in the game to one in a table and put that battery on the charger. Do the same on your next collection with the *other* table, and no battery ever goes more than 4 weeks without being recharged. Remember—you cannot overcharge a lead-acid battery.

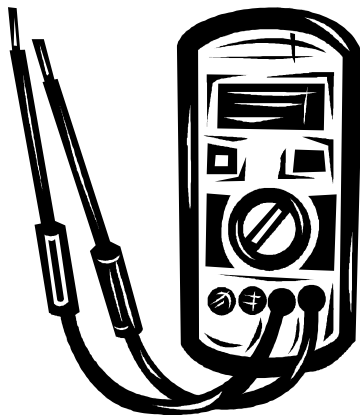
Another option is to keep a supply of charged batteries at your shop. Have your collector take enough charged batteries for the tables to be collected that day. The batteries swapped are brought back to the shop and put on the charger for the next collection day. If this system may work for you, ask your Parts Distributor about Valley Part # 030205125 – the multi-battery charging station.



The least preferable method is to put your location on “the honor system” and allow them to plug in the table after closing and unplug it prior to the following day’s opening. Would only need to be done one day each month. On paper, it seems perfect. In the real world, it is the most problematic of battery maintenance methods. We have seen too many locations with dead batteries the location swears are plugged in every night. Simply does not work. A FULL CHARGE is necessary at least once a month, topping the battery off for a couple of hours will not do the job.



Remember: if you do not trust the locations to collect for you, think before you trust them to keep the batteries charged.



TESTING PROCEDURE, AND TOOLS OF THE TRADE

– If your Battery is your “Best Friend”, your testing meter needs to be your “Second best Friend.” Get a DC volt meter or a multi-meter set to DC Voltage. Place the **red** lead from your meter to the **red** positive terminal, and the black lead to the black negative terminal. Next, feed a bill into the bill acceptor. As the DBA stacks the bill, watch your meter. This will give you a more accurate voltage level than when the table is just sitting there, with the bill acceptor in low-power sleep mode.

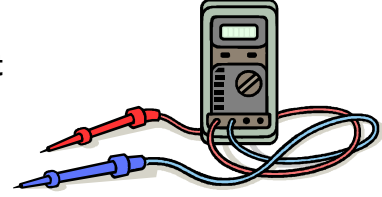
YOUR SCORE CARD

✦ A good reading is from 13.97 to 12.5 volts. Leave that battery in service

✦ A reading of lower than 12.5 volts but higher than 10.5 volts shows the battery in need of a charge. As soon as is practical, swap the battery for a charged unit, plug in a charger that evening, but definitely take action soon.

✦ A reading of 10.5 volts or lower could indicate damage to your battery. This battery should be charged **IMMEDIATELY** to prevent additional damage, and tested regularly as a precaution.

✦ A reading below 8 volts is a sign that the battery has been damaged due to too much discharge between chargings or insufficient charging. This battery will no longer hold a charge sufficient to keep the table running effectively and should be replaced.



Voltage is key to a healthy battery, but Amperage is the true workhorse and it is crucial that Amps are checked as well. We use a special Amp meter designed for low amperage batteries. S.D.I. is the manufacturer, the model number is CELL01-24, and you can contact them at (732)-751-9266. The battery will need to be fully-charged to test the Amp level. Connect the amp meter leads, then press and hold the TEST button. In less than a minute, the meter will give a percentage rating of your battery's Amp level. Wait at least five seconds, and repeat the process to verify the result. Ideally, the rating should be no less than 80%. If after a minute you are unable to detect an Amp rating, the battery is weakened enough to the point where it will not hold a charge, and should be replaced.

ABOUT BATTERIES AND WARRANTIES – Your table is covered by a two-year Warranty to be free of defects. Proper battery care is a must to guarantee a long life for your battery. Not charging the battery completely or regularly will shorten battery life, and the battery may fail prior to the end of the warranty period.

Defective batteries are almost always found within the first few months. Battery failures after a year or longer into a pool table's service life are rarely a result of a manufacturing defect.



TAKE CARE OF YOUR BATTERY, AND YOUR DBA TABLE WILL TAKE CARE OF YOU WITH INCREASED REVENUE AND FEWER SERVICE CALLS!

