

## ***Power Solutions*** ⊗

### **INSTALLATION & OPERATING INSTRUCTIONS**

### **SBS WET CELL FORKLIFT BATTERIES**

### **BATTERY MAINTENANCE PROCEDURES AVAILABLE ACCESSORIES**



ISO 9001-2000

N56 W16665 Ridgewood Dr. – Menomonee Falls, WI 53051 – (800) 554-2243

[www.sbsbattery.com](http://www.sbsbattery.com)



**Congratulations and thank you for purchasing this SBS Battery.**

At Storage Battery Systems we are confident that you will be happy with the buying decision you have made. Storage Battery Systems will be happy to assist you to make sure your investment is protected and lasts as long as possible.

At your request an SBS Representative will perform a site evaluation at no charge to make recommendations, which will help extend battery service life.

Storage Battery Systems can set up and perform scheduled preventative maintenance on your battery or batteries which will keep your material handling equipment operating more efficiently, at minimal costs, while preventing unnecessary downtime and loss of production.

For a no charge site evaluation, contact us at 1-800-554-2243 and ask for the Sales Representative in your calling area.

## INSTALLATION AND OPERATING INSTRUCTIONS FOR SBS INDUSTRIAL BATTERIES

### RECEIVING BATTERY

Your new battery has been packaged to assure that it will be in good condition when it arrives at your door.

When receiving a new battery, immediately examine the exterior of the packaging. Examine for wet spots on the side or bottom which may indicate leaking jars broken in shipment, or that the battery had been tipped over during transit.

If there is visible evidence of damage, the receipt should be marked "SHIPMENT RECEIVED DAMAGED." The carrier should be called immediately and asked to make a damage report.

When a shipment is received and there is no visible evidence of damage, but during the unpacking, damage is found, the carrier should be called immediately and requested to make a concealed damage report.

### FRESHENING CHARGE

Before placing battery in service, apply a freshening charge. Connect charger and battery on automatic start/stop equipped chargers. Set charger control to an equalize charge on the charger.

### OPERATION

SBS Industrial batteries are rated in ampere-hours and should be of the proper size for the intended workload.

- (A) Check charger nameplate information to make certain that the charger is matched to the ampere-hour rating of the battery. ***If you have purchased an SBS low maintenance battery it will require a properly matched low maintenance charger.***
- (B) The battery has delivered its normal ampere-hour rating when it has been discharged 80% or to 1.140 to 1.150 specific gravity. Discharging the battery below 80% or 1.140 specific gravity is considered over discharged and can shorten the service life of the battery.
- (C) Battery should not be allowed to stand in a discharged condition. Connect the battery to the charger and recharge immediately after work shift.
- (D) Under normal workload, our standard battery will require additional watering once a week. ***(Low maintenance batteries every 2-3 months.)*** Do not over fill with water. Over filling will cause loss of electrolyte. Fill to the level indicator, or approximately ¼" below bottom of filler well. Wear face protection when watering.
- (E) Handle the battery with care. Use OSHA-approved non-conductive lift beam for lifting batteries. Keep metal objects or chains away from the cell connectors. Care in handling will prevent damage to trays, cells and covers.
- (F) Check to be sure weight of battery meets or exceeds the minimum battery weight as listed on specification plate on lift truck.

If you have any questions regarding these instructions or would like a no charge consultation, please call 1-800-554-2243, and ask for Customer Service.

## BATTERY INTRODUCTION

The lead acid battery furnishes all power requirement of the truck. Most industrial batteries can be expected to function properly for more than five years. This section contains the following essential battery maintenance information:

- ⚡ Battery Maintenance
- ⚡ Charging
- ⚡ Hydrometer Check
- ⚡ Voltage Check
- ⚡ Cleaning
- ⚡ Filling

This information should extend battery life and increase truck efficiency.

## BATTERY MAINTENANCE

Follow these simple rules for long life and top performance:

### DAILY

1. SBS batteries should only be charged on a properly matched charger equipped with an automatic start/stop charge control. ***SBS low maintenance batteries must be charged with a fully automatic matched charger designed for low maintenance batteries.***
2. Always leave caps on the battery when charging.
3. Turn charger control to "DAILY" position for charging daily and weekly position for weekend charge. If charger is equipped with an electronic control, make sure the switch is in the "ON" position. Connect the battery connector to the charger. After a brief delay, the charger will automatically start. After completion of charge, take a hydrometer reading on a single pilot cell to make certain the battery is fully charged (ranging from 1.265-1.295 specific gravity at 77°F).

### WEEKLY

1. Check water levels every 5 working days or more frequently, as needed. Add distilled, deionized, or approved tap water to all cells. (Water from a softener is not recommended.) Bring the level up to the level indicator (1/8" – 1/4") below the bottom of the filler neck vent well.
2. If charger is equipped with an equalize feature, plug battery into charger and depress equalize button or switch. Some chargers may be equipped with an automatic equalize feature. If so equipped, no input is required. Note: Watering/equalize log forms are available from SBS upon request.

***NOTE: The SBS low maintenance battery is designed to require watering every 2-3 months under average use. Check 2-3 cells weekly and fill as needed.***

## MONTHLY

1. *Take specific gravity readings on all cells with hydrometer when fully charged*

(A) If the readings average less than 1.270, check the charger output rates.

(B) If one or two cells read 20 points or more, less than the average, circle those readings and check for improvement at the next monthly reading. (If the low cells do not improve, the cells are in need of specific gravity adjustment or internal inspection.)

2. Clean battery if needed. If battery top is wet with acid or corrosion is detected, use a solution of 1lb. of sodium bicarbonate to 1 gallon of water or SBS Cat. No. 23200 pump spray battery cleaner, to neutralize before washing or wiping off. Keep vent caps securely in place at all times when cleaning.

3. Inspect DC cables for cuts or frayed ends. Worn cable insulation or bare wire must be insulated with heat shrink tubing (SBS Part #ST00750-48A). Damaged DC contacts or connectors should be replaced immediately.

4. If equipped with a single point filling system, check for kinked, loose or cut hoses, broken caps or connectors and for any signs of abnormal electrolyte levels (under or overfilling). If battery is equipped with an electronic low fluid level monitor and it does not resume blinking after filling, unit should be inspected by a qualified technician and repaired as necessary.

***Note: Wet covers can be an indication of over filling, leaky seals at posts or excessive gassing during charge. When observed, the cause should be determined and the abusive conditions corrected. Contact SBS if you suspect a problem.***

## BATTERY CHARGING

### Charging Warning

When charging a battery, the following safety precautions must be observed:

- # Do not smoke, use open flame or spark producing devices near the battery (No grinding, welding, etc.)
- # Charge in a well ventilated area to avoid build up of hydrogen gas concentration.
- # Batteries should be kept clean, since corrosion leads to grounds and the possibility of sparks.
- # Charge batteries at the indicated rates of a correct matching charger.
- # Make sure all plugs, terminals, cables, and receptacles are in good condition to avoid shorts and sparks.
- # Never lay metal tools on top of a battery.
- # Wear protective clothing and eye protection when handling, checking or filling batteries.
- # Charger should be off before plugging battery into charger or before disconnecting battery from charger. Failure to do this could result in hazardous arcing and connector damage.
- # If battery has a steel cover it should be open during charging. If the battery remains in the lift during recharging, the battery tray cover and/or lift truck compartment lid if applicable, should remain open during the recharging period.
- # Battery cell caps should be in place during charging to minimize the spray that is emitted from cells during recharge gassing period.
- # Always be sure to plug the battery charger into the battery connector rather than the connector on the lift truck.
- # Battery should be recharged at temperatures over 60°F and not higher than 115°F.

## Charging Procedure

### Procedure

On chargers equipped with an automatic start/stop control, simply plug the charger into the battery plug. After a slight delay, the charger will automatically start unless equipped with a time delay option.

If charger is equipped with a manual timer, make sure it is turned off before connecting to the battery. Then set the charger to the daily setting.

Set equalize switch on charger:

WEEKLY: (5-7 days) If in cold storage or battery is regularly over discharged or under charged.

EVERY 10 WORKING DAYS: If normally discharged to no more than 80% and fully recharged each day.

⚡ **Get the maximum use out of each battery by recharging the batteries only when the battery is effectively discharged. Do not routinely recharge batteries when they are only partially discharged. Do not opportunistically charge battery at lunchtime or during breaks, except in cases where an approved fast charge system is utilized, as this will decrease battery life.**

⚡ If electrolyte temperature exceeds BCI recommended maximum temperature of 115°F during charge cycle, the charge cycle should be interrupted until the temperature declines to approximately 100°F. Battery can then be recharged fully unless temperature again exceeds 115°F during charging cycle.

⚡ Batteries operating in cooler or freezer applications where electrolyte temperatures are often below recommended 60°F should be recharged on a properly suited charger. Contact SBS for further details. If charger is not suited for the application, charging may terminate before battery reaches a full charge, causing an under charge condition. Batteries that are near or at full discharge should not sit idle in a truck in a cooler or freezer for any length of time, a fully discharged battery can freeze at 32°F.

⚡ Battery capacity and recharge characteristics are all based on nominal electrolyte temperature of 77°F. Temperatures lower than 77°F will reduce battery run time capacity and require a longer period of time to fully recharge. Exceeding electrolyte temperature of 77°F will enhance the self-discharge rate and shorten the service life of the battery. It is not uncommon for the electrolyte temperature to rise 10-25°F during the recharge process. This is not a problem unless the battery temperature before charging is 100°F. This being the case, it is likely the temperature will exceed the maximum BCI recommended temperature of 115°F, which could and most certainly will damage the battery.

⚡ Below is a listing of how temperature affects voltage and specific gravity.

Electrolyte Temperature Degrees F	Hydrometer Reading	Points Correction to Hydrometer Reading
107	1.276	+9
97	1.279	+6
87	1.282	+3
77	1.285	0
67	1.288	-3
57	1.291	-6
47	1.294	-9
37	1.297	-12

## Recharging Time

- ⚡ When a battery charger is properly sized to the matching battery, recharge time on a standard charge will generally take from 6-8 hours to fully recharge an 80% discharged battery. If a properly sized single shift charger is utilized in light duty battery applications, the normal recharge time may be from 12 to 16 hours. One must also compensate for the temperature of battery as well. Equalize charging a battery will generally take an additional 3 hours bringing the total recharge time to 9-11 hours.
- ⚡ Monthly, specific gravity and voltage readings should be taken after charging is complete and battery has been sitting idle for 2-3 hours. This will help determine if the battery is being fully recharged. The following charts will help you detect whether a problem does or does not exist.

## HYDROMETER CHECK INTRODUCTION

The hydrometer\* measures the specific gravity of the electrolyte. The specific gravity varies directly with the state of charge of a lead acid battery as follows:

<u>Charge</u>	<u>Specific Gravity</u>
100%	1.280-1.300
75%	1.240-1.250
50%	1.190-1.200
20%	1.140-1.150
0%	1.080

## Hydrometer Procedure



<u>Step</u>	<u>Procedure</u>
1	Insert the nozzle of the hydrometer into the battery cell and draw enough electrolyte into the tube by squeezing the bulb, allow the float to ride free so float is not resting on the walls of the barrel.
2	Bring the hydrometer to eye level and determine the specific gravity of the cell. See diagram to left. Specific gravity reads 1.285.
3	If there is not sufficient electrolyte to obtain a hydrometer reading, add just enough water to cover the battery plate.
4	Now recharge the battery and take additional readings after charging. The specific gravity reading for each cell should be taken and recorded on your battery chart.

## Voltage Check Introduction

Take a voltage check per cell after performing the above hydrometer check. Connect the leads of a Simpson Volt/Ohmmeter (VOM) or equivalent, to the positive and negative terminals of each cell. VOM readings will vary with the state of charge:

<u>Charge</u>	<u>Approximate Cell Voltage</u>
100%	2.12-2.14
75%	2.08
50%	2.04
20%	1.98-2.00
0%	1.94-1.96

**NOTE: Do not take readings until 15 minutes after a battery has been either charged or discharged.**

<u>Step</u>	<u>Procedure</u>
1	Touch the voltmeter leads to the positive and negative terminals of each cell. There should be a reading of approximately 2.12 volts for each fully charged cell and a variance of no more than .04 volts for each fully charged cell.
2	Record the voltage reading for each cell on the battery maintenance chart.

## Cleaning Introduction

Batteries operating on industrial trucks pick up various kinds of dirt and dust depending on their surroundings and types of material handled. However, if cells are over filled and electrolyte collects on the covers, the following process occurs.

### Electrolyte Process

<u>Step</u>	<u>Process</u>
1	The top of the battery becomes wet and stays wet, since the acid in the electrolyte does not evaporate.
2	This moist surface in combination with certain kinds of dirt becomes electrically conductive and permits stray currents to flow externally over the top of the battery.
3	These currents cause corrosion of cell posts, cables, connectors and the steel tray.

### Battery Electrical Leakage to Frame Test Procedure

<u>Step</u>	<u>Process</u>
1	Set the voltmeter scale to 50 volts
2	Attach the negative meter lead to the frame of the truck and the positive lead to the battery positive *The voltmeter should show no voltage or less than ½ battery voltage.
3	Attach the positive meter lead to the frame and the negative lead to the battery negative. *The voltmeter should show no voltage or less than ½ battery voltage.
4	If there is more than ½ battery voltage reading in Steps 2 and 3, clean the battery.

\*Some trucks are more sensitive than others to stray voltage.

**Warning:** Leakage on the positive side of the battery is not as critical as leakage on the negative side.

## Battery Cleaning Procedure

<u>Step</u>	<u>Procedure</u>
1	Mix up 1 lb. baking soda and ½ gallon of hot water or use pre-mixed solution (SBS Cat. No. 23200).
2	Tighten the battery vent caps.
3	Use a brush with flexible bristles and apply the soda solution over the top of the battery until all fizzing stops, indicating that the acid has been neutralized.
4	Rinse thoroughly with clean water.
5	Waste water to be disposed of per EPA Regulations.

**NOTE:** If cleaning cannot be performed by your staff legally, SBS can clean batteries on site with our recirculating battery wash system. With this self-contained unit, all hazardous waste is collected and removed from your site freeing your company of hazardous waste disposal responsibilities. SBS will haul away waste and dispose of per EPA Regulations. Contact SBS for a site evaluation. We can tailor a P.M. schedule to fit your specific need.



PREVENTATIVE MAINTENANCE PROGRAMS  
& BATTERY CLEANING

# Battery Waste Water: If Improperly Disposed Of, Your Company Could Face Significant Liability.

Waste water produced by battery washing and cleaning contains hazardous materials. If improperly disposed of, your company could be faced with significant liability.

ENVIRONMENTAL concerns can be eliminated by having SBS clean your batteries with the totally self contained recirculating battery wash system. In-house filtering systems are available, but due to the expense, it is not always practical.

A clean battery is a healthy battery!

**Why Clean?**

- Battery life can be reduced
- Corrosion can cause battery cells to rupture and leak
- Metal cases can corrode away
- Electrolyte can damage operator's clothes and irritate the skin
- Voltage leaks to ground can create nuisance electrical faults to the truck itself
- Lifting ears can weaken causing potential safety issues

Cleaning will increase battery life and reduce repair costs!

**How Often Should A Battery Be Cleaned?** This depends mainly on how well the batteries are watered. In many instances a once a year wash is more than adequate. However, if over watering occurs regularly and/or it is a dusty or dirty environment, more frequent washing is needed.

Contact your SBS representative today for more information.



# SBS Can Tailor Make A Preventative Maintenance (PM) Program For Your Company!



Don't be lulled into thinking that the forklift PM's you may already have are protecting you from unnecessary expenses incurred due to operator, battery or charger problems. Forklift PM's typically cover only the most basic items when it comes to this.

***Most importantly, our technicians are trained to look for operational or people problems. Unless they are identified and acted upon, the damage and the costs associated with the problem never end.***

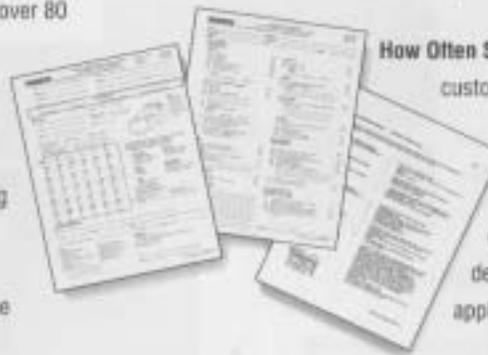
**Your Time Is Valuable!** Our one of a kind reporting system not only identifies any problem area, but describes in a clear brief format:

- What the problem is
- What will happen if it continues
- How to solve the problem

SBS has developed a comprehensive preventative maintenance program that draws from over 80 years of service expertise.

**We leave no stone unturned!**

Comprehensive tests are performed on batteries, chargers and battery changing equipment, as well as any optional accessories such as single point filling systems. A safety and OSHA compliance audit is performed as well.



**How Often Should A PM Be Performed?** Our

customer service representative will evaluate your application and then recommend a program that could be weekly, monthly, quarterly, semiannually or yearly, depending on your needs and the application.



Contact us via Phone: 888-654-2243 E-mail: [sbs@sbsbattery.com](mailto:sbs@sbsbattery.com) World Wide Web: [www.sbsbattery.com](http://www.sbsbattery.com)

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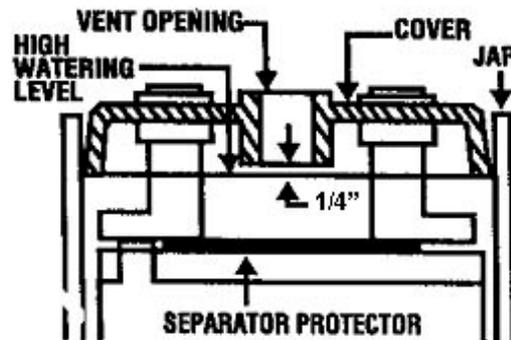
Chicago, IL  
 Phone: (630) 543-4885  
 Fax: (630) 543-4899

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## Filling Batteries

### Maintaining Proper Water Levels

- ⚡ It is critical that the battery is constantly monitored for proper fluid levels. Batteries should never be recharged or run with low fluid levels. See diagram below



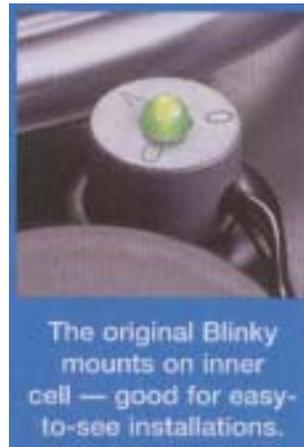
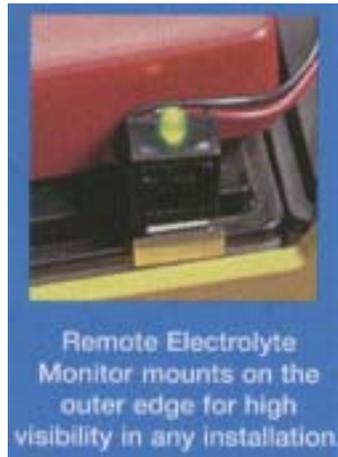
- ⚡ Fill batteries only during gassing or after completion of a full charge. During charging, the levels will rise, therefore batteries should not be filled before charging or an overflow condition will likely occur.
- ⚡ Only approved water should be added to your battery. In some areas tap water is suitable for use, however most often this is not the case. Certain chemicals and impurities found in tap water can damage the battery in time. If unsure of your water quality, a water sample should be sent into a lab for clarification. If it is deemed your tap water is not suitable for use, distilled or deionized water should be used. Water from a softener is not recommended. A water deionizer unit is available from SBS to protect your investment (SBS Part #PS300).
- ⚡ When filling batteries, proper safety equipment should be worn to include a face shield, safety glasses, acid resistant apron and gloves. Jewelry should not be worn, metal jewelry can short circuit across the top of a battery.

For more information on general requirements for Personal Protective Equipment, see OSHA Standard 1910.132.

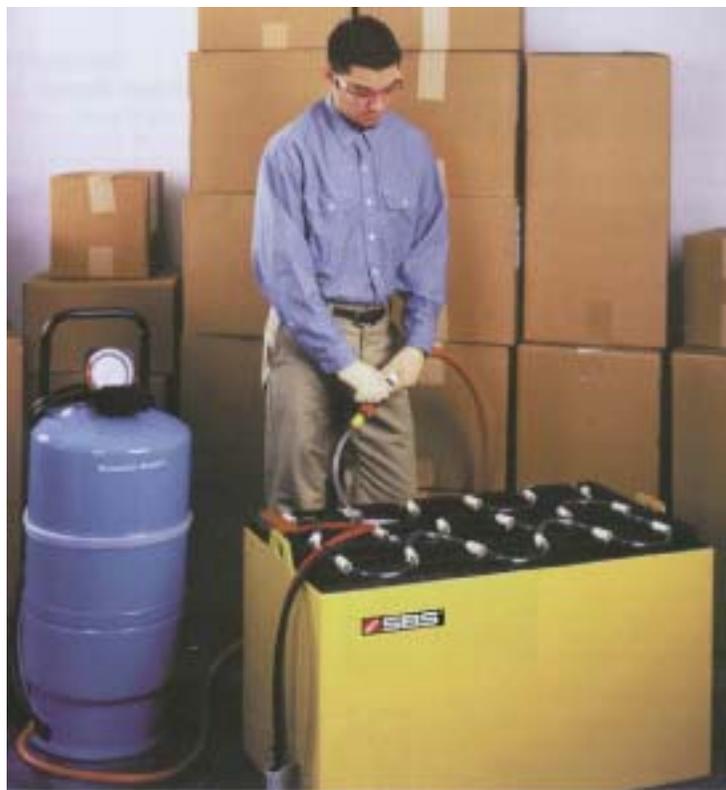
SBS recommends filling batteries with an automatic water gun. This device is designed to fill batteries quickly and accurately when used in conjunction with a water deionizer or portable water cart. This unit shuts off automatically filling each cell to the same consistent level.



Batteries can also be retrofitted with an electronic low-level monitor, which blinks on and off when the levels are proper. The operator looks at the light daily, if the light were not flashing after charging, the battery would then be watered.



Automatic water fill systems are available allowing your battery to be filled either in or out of any style lift truck in less than 30 seconds. These systems provide for safe, fast and extremely accurate filling. If your battery is equipped with this system please follow these instructions when filling your battery.



**Battery Filling Instructions when filling batteries equipped with automatic water injector fill systems and water monitoring devices.**

- I. Before installing charged battery into lift truck or after complete charge of battery in lift truck, inspect water monitoring device operation.
- II. If green monitoring light is blinking, water is not needed. **Do not fill battery!**

III. If green monitoring light **is not** blinking, water is needed.

- A. At this time, plug the quick disconnect from battery water system to the female quick disconnect from water supply fill tank or direct fill hose assembly.
- B. Open water valve completely. Wait until spinner stops (10-30 seconds is normal for fast-fill systems, low-pressure or gravity-fed systems can take up to several minutes).
- C. Close water valve.
- D. Disconnect water supply and battery water system quick disconnects.

If after watering battery the monitor does not resume blinking or if operator discovers broken or leaking water caps, tubing, quick disconnects, etc., advise the proper personnel so repairs can be made.

Battery is now ready for service.

### **Record Keeping**

A battery record system is essential because battery failure can result in production slowdowns and increase battery-operating costs. A properly supervised record system can be made to detect and call attention to such operating irregularities as:

- ⚡ Over Charging
- ⚡ Under Charging
- ⚡ Over Discharging
- ⚡ Excessive Water Consumption
- ⚡ Excessive Dirt and Corrosion
- ⚡ Worn Out Batteries
- ⚡ Excessive Current Consumption of Trucks

Records should be kept for each individual battery. Contact SBS for a list of maintenance record sheets. Each report should contain:

- ⚡ Battery number, type, serial number and service date.
- ⚡ Specific gravity and voltage readings for each cell.
- ⚡ Temperature of the air and electrolyte.
- ⚡ Condition of connectors, covers, sealing compound and tray.
- ⚡ General cleanliness
- ⚡ Number of total cycles
- ⚡ Average discharge time per use.
- ⚡ Watering frequency
- ⚡ User comments and observations.

New electronic Battery Data Recorders, such as Intellefleet Fleet Management System and Power Trac Data Logger are available. These devices will help manage your fleet reducing your material handling expenses. For more information, please contact SBS.



## ACCESSORIES

The following accessories are available from Storage Battery Systems. These devices will help you maintain your fleet safely and efficiently while reducing short and long term maintenance costs. Many of these items will also help extend battery service life.

### Battery Watering Accessories



#### **SBS Part #PS-300 – Water Purification System**

Super Cartridge makes up to 600 gallons of purified water. Why buy expensive distilled water when this low cost deionizer makes pure water straight from the tap?

An automatic water gun will easily attach to the PS-300 water deionizer system to provide the highest quality water for your batteries.



#### **SBS Part #CRT-12V – 12 Volt Gun Watering Cart**

**Full Mobility** The cart supplies water where you want and when you want. Just fill the tank from the tap, from bottles or from our PS-300 water deionizer.

**Proven Reliability** At the heart of the battery powered cart is a “demand pump” controlled by a pressure switch and powered by an on-board battery. When the gun is operated, the pump turns on automatically. When the gun shuts off, the pump shuts off too.



#### **SBS Part #GUN-B, C or G – Battery Watering Guns with Automatic Shut Off**

##### **Easy to Operate**

- ## Compact and lightweight
- ## Attaches to any standard hose
- ## Just set the level and squeeze the trigger till automatic shutoff

##### **Fast Payback**

- ## No installation cost
- ## No maintenance adjustments needed – ever
- ## Reduces labor costs up to \$100/year for each 18-cell battery
- ## Eliminates costs related to overflowing, acid adjustment, and battery damage



### **SBS Part #2050 – Water-Miser Safety-Vent**

The most advanced industrial battery “flip-top” vent cap available today. Engineered and designed to encompass all areas of concern.

- # Ease of inspection and watering
- # Battery-top moisture reduction
- # Electrolyte retention within cells
- # Fume-free environment
- # Flame and/or spark retardant characteristics

**Part #ACC-REM**

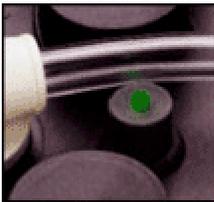


### **SBS Part #ACC-REM and #ACC-BWM – Electrolyte Level Monitors**

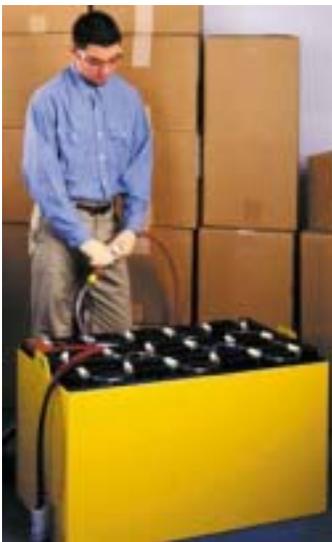
#### **Easy Operation**

- # Flashing green light says the battery is working correctly and the electrolyte level is okay; when it stops flashing, it's time to add water
- # Prolong battery life – never let a battery dry out
- # No need to handle anything to check the electrolyte level, so you avoid the dangers of acid wetted parts or looking into a vent well

**Part #ACC-BWM**



### **OTHER TYPES AND BRANDS AVAILABLE AS WELL**



### **SBS Injector, Millennium & BFS Water Fill Systems**

The fastest, safest and most reliable way to add water to your batteries. SBS has high and low pressure systems available. Call SBS and a representative will evaluate your application to determine which system is best suited for your needs.



### **Polyethylene Heavy Duty Accessory Battery Tray**

This unit is ideal for pallet truck applications. Store writing utensils as well as clip boards, tape rolls and shrink wrap. Trays can be made to nearly any required size. **Contact SBS for pricing.**

### **Battery Testing Tools, Cleaners, and DC Cable Insulation, etc.**



### **SBS Part #381626 – Extech Digital Voltmeter**

AC/DC Digital Voltmeter for testing cell voltages



### **SBS Part #Z1-G**

Industrial grade hydrometer with polycarbonate barrel and glass float. Float scale reads 1.100-1.350 specific gravity.



**SBS Part #E-404** – 14 Oz. Aerosol can of Noco Battery Cleaner & Acid Detector

**SBS Part #23200** – One quart plastic bottle with trigger sprayer – Battery Cleaner & Acid Detector



**SBS Part #ST00750-48A** – ¾" Heavy dual wall heat shrink tubing with melt sealing adhesive. 48" Lengths.

**SBS Part #ST1-1-48A** – 1.1" O.D. Heavy duty dual wall heat shrink tubing with melt sealing adhesive. 48" Lengths.



**SBS Part #7015280** – Small Chemical Spill Clean Up Kit

**SBS Part #7015285** – Large Chemical Spill Clean Up Kit

No battery charging/charging area should be without one of the following chemical spill response kits. SBS also has a full line of acid proof gloves, aprons, face shields, eye wash/shower stations.

**Contact SBS for all your safety and environmental requirements.**

### Fleet Monitoring Systems



**If you don't measure it, you can't manage it!**

SBS can install a monitoring system that is best suited for your application. Monitor temperatures, charging, discharge characteristics, utilization, etc., all from your computer.



**CONTACT SBS FOR MORE INFORMATION**