

July 2005



## Battery Guide

Introducing the  
New Energizer  
Multi-Drain  
Watch Battery  
2-cells in 1



- ★ Increased Reliability - 7-year shelf life
- ★ Superior leakage resistance
- ★ 20% inventory reduction
- ★ Faster stock turn-around
- ★ Both High and Low Drain numbers are listed on the cell
- ★ Extensively field tested to ensure customer satisfaction

Energizer's new multi-drain batteries utilize an innovative cell chemistry which combines the best characteristics of both high & low drain systems into one battery type. Replace any silver oxide battery in the market by only stocking 32 battery types. See pages 3-4.

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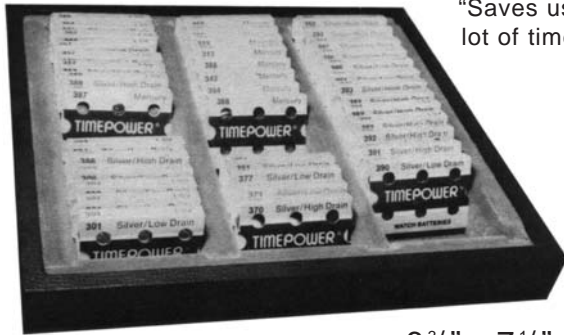
Receive a **FREE\*** Energizer® Squeeze Light with the purchase of 33 Timepower® 6 paks (198 cells) or 200 assorted Energizer® cells in Tear Strips



The perfect flashlight for pocket or purse - durable, with a bright concentrated beam and dual-molded soft grip. 2 year operation with normal use (disposable). Includes key chain. Available in assorted colors while supplies last.

*When ordering ask for # BAT Bonus200*

## Battery Tray for 6-paks



"Saves us a lot of time."

6 3/4" x 7 1/4"

# BAT TRAY \$ 7.50

Velvet lined tray holds up to 54 six-paks.

That's over 300 batteries!



### Six Pack stocking system

- 6-paks are filed in an open tray for instant use
- Newly received cells are filed behind existing stock. First-in, first-out usage is assured.
- Re-ordering is a breeze. You see your entire stock without having to go through drawers.

*Watchmakers love Timepower 6-paks because it saves time, effort, and money. It will do the same for you!*

## The TIMEPOWER 6-pak

Why do so many watchmakers love it?

"Extraordinarily convenient"



Watchmakers all over the country appreciate the Borel 6-pak battery system. Here's why:

- 6-paks are the freshest, top quality, genuine Energizer batteries.\*
- The compact 6-pak: Slide it open...remove cell...slide it closed.
- It's so compact, your entire watch cell stock is contained in one tray, the size of this opened booklet.
- With the tray at your bench, every battery is at your finger tips.
- Battery orders usually ship with other items: material, crystals, movements, tools, findings, or jewelry. Cells ride piggy-back, free of extra shipping charges. A sizable savings.

\*for all numbers manufactured by Energizer


362/361	1.5 V
321	1.5 V
395/399	1.5 V
392/384	1.5 V
379	1.5 V
377	1.5 V
379	1.5 V
392/384	1.5 V
395/399	1.5 V
321	1.5 V
362/361	1.5 V
364	1.5 V
371/370	1.5 V
344	1.5 V
393	1.5 V
394/380	1.5 V
386/301	1.5 V



### Watch Battery Prices

Battery	120-asstd* 6paks only	30-asstd 6pak/5strip	5 strip or 6pak
309	.72	.72	.80
315	<b>*.58</b>	.60	.63
317	<b>*.40</b>	.42	.47
319	<b>*.44</b>	.48	.54
321	<b>*.34</b>	.38	.42
329	<b>*.56</b>	.62	.68
335	.88	.88	.95
337	1.40	1.40	1.45
339	1.30	1.30	1.40
341	1.10	1.10	1.20
344	.70	.70	.80
346	1.10	1.10	1.25
350	1.10	1.10	1.20
357/303	<b>*.59</b>	.65	.70
362/361	<b>*.30</b>	.32	.35
364	<b>*.24</b>	.25	.28
365	.76	.76	.85

### Multi-Drain Cross Reference

Old #	Use	Old #	Use	Old #	Use
301	386/301	381	391/381	394	394/380
303	357/303	384	392/384	395	395/399
357	357/303	386	386/301	396	397/396
361	362/361	389	390/389	397	397/396
362	362/361	390	390/389	399	395/399
370	371/370	391	391/381		
371	371/370	392	392/384		



### Watch Battery Prices

Battery	120-asstd* 6paks only	30-asstd 6pak/5strip	5 strip or 6pak
366	.70	.70	.80
371/370	<b>*.32</b>	.35	.39
373	<b>*.46</b>	.51	.56
376	<b>*.49</b>	.52	.56
377	<b>*.26</b>	.28	.31
379	<b>*.28</b>	.29	.32
386/301	.56	.56	.62
387S	1.50	1.50	1.60
390/389	.46	.46	.52
391/381	.46	.46	.52
392/384	<b>*.29</b>	.30	.35
393	.51	.51	.55
394/380	.49	.49	.55
395/399	<b>*.32</b>	.34	.38
397/396	<b>*.33</b>	.36	.40

*\*Prices in bold are special prices for orders of 120 cells assorted in 6-paks only*

### Substitutions for Discontinued Items

Disc. #	Use	Disc. #	Use
313	357/303	355	357/303 with 355/357 adapter
314	SR716W	372	SR916W
323	309	387	387S, or Accucell-1 if Accutron
325	392/384	388	329 w/ 388/329 adapter or ACC-2 if Accutron 221
343	344, or Accucell-1 if Accutron		
348	SR421SW		
354	386/301		



maxell SONY

Maxell/Sony Battery Prices

In 5-cell tear strips

Battery		30 asstd	5-strip	1 pc.
SR41SW	384	\$.36	.41	.60
SR41W	392	.33	.37	.55
SR43SW	301	.62	.69	.90
SR43W	386	.57	.63	.80
SR44SW	303	.73	.80	1.00
SR44W	357	.68	.75	.95
SR416SW	337	1.25	1.35	1.50
SR421SW	348	1.30	1.40	1.55
SR510SW		5.00	5.00	5.00
SR512SW	335	.80	.90	1.10
SR516SW	317	.57	.63	.80
SR521SW	379	.36	.39	.60
SR527SW	319	.45	.50	.70
SR616SW	321	.41	.45	.65
SR621SW	364	.25	.28	.50
SR621W	363	1.30	1.40	1.55
SR626SW	377	.27	.30	.50
SR626W	376	.43	.48	.65
TR709SW		watch needs to be sent to Coserv		
SR712SW	346	1.00	1.10	1.30
SR716SW	315	.57	.63	.80
SR716W	314	1.00	1.10	1.30
SR721SW	362	.36	.39	.60
SR721W	361	.36	.39	.60
SR726SW	397	.45	.50	.70



maxell SONY

Maxell/Sony Battery Prices

In 5-cell tear strips

Battery		30 asstd	5-strip	1 pc.
SR726W	396	\$.39	.44	.65
SR731SW	329	.66	.72	.90
SR754W	393	.79	.88	1.10
SR909SW		watch needs to be sent to Coserv		
SR912SW		watch needs to be sent to Coserv		
SR914SW		4.20	4.20	4.20
SR916SW	373	.50	.55	.75
SR916W	372	1.30	1.40	1.55
SR920SW	371	.37	.40	.60
SR920W	370	.41	.45	.65
SR927SW	395	.38	.42	.60
SR927W	399	.38	.42	.60
SR936SW	394	.55	.60	.80
SR1116SW	366	.68	.72	.90
SR1116W	365	.78	.86	1.05
SR1120SW	381	.64	.71	.90
SR1120W	391	.42	.46	.65
SR1130SW	390	.48	.53	.75
SR1130W	389	.48	.53	.75
SR1136SW	344	.86	.95	1.15
XR11630W	R28	9.95	9.95	9.95
XR9520W	280-403	5.50	5.50	5.50
XR9527W	R48	12.00	12.00	12.00

Maxell & Sony batteries are fine quality cells produced in Japan for many well known Far East watch companies. Where applicable, the universal battery number is listed next to the Maxell number.

The great power source  
for ACCUTRON®  
214 & 218 Movements!  
and now also 221



### The Accucell-1 Power Cell

It delivers both the right voltage and life up to a year. Powered by a 1.5V multi-drain silver oxide cell with a special circuit that outputs the proper voltage required for these movements. The combined assembly is encapsulated in a delrin space-ring to fit these specific Bulova Accutron movements: 214, 218, 224, 2300.

**Stock # ACC-1:**      **1-pak**      **\$ 5.95**  
                                 **4-pak**      **\$ 5.50/cell**  
                                 **3 4-paks**    **\$ 4.95/cell**

### for Accutron® 221 (2210)

ACC-2 provides proper voltage with only a one time installation. Use with a 397/396 cell.

**Stock # ACC-2:**    **1-pak**    **\$ 10.50**



## Environmental Note

\* Mercury type batteries are no longer made, as their sale is unlawful. You may substitute a low or multi drain type silver oxide cell of the same size.

Mercury #	Substitute #	Mercury #	Substitute #
313*	357/303	388*	329 w/388/329 ring, or ACC-2
323*	309	L13*	L13ZA
325*	392/384	L312*	L312ZA
343*	344, or Accucell-1	L675*	L675ZA
354*	386/301	EPX1*	no sub
355*	357/303 w/355/357 ring	EPX625*	E625G
387*	387S, or Accucell-1	EPX675*	no sub

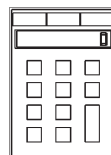
## BR & CR Lithiums

The 1st 2 numbers in the stock # indicate the approx. diameter, & the last 2 digits indicate the approx. thickness in tenths of mm.



### BR Lithium

BR1225	2.25
BR2020	2.25
BR2325	2.50



### CR Lithium

	Each	10pc. rate
CR927	\$ 19.95	
CR1025	.95	.85
CR1216	1.20	1.10
CR1220	1.00	.90
CR1225	1.10	1.00
CR1240E	Discontinued	
CR1612	12.25	11.50
CR1616	.80	.70
CR1620	1.10	1.00
CR1632	1.10	1.00
CR2012	1.00	.90
CR2016	.65	.55
CR2025	.80	.70
CR2032	.80	.70
CR2040	1.40	1.20
CR2316	Discontinued	
CR2320	.95	.90
CR2354	2.95	2.75
CR2412	10.50	9.95
CR2420	Discontinued	
CR2430	1.05	.95
CR2450	1.50	1.40
CR3032	2.40	2.30

“BR” & “CR” lithium batteries are used in watches, calculators, computers, car alarms, blood pressure monitors and other miniature electronic devices. The “BR” is used in low drain applications. The “CR” is used in higher drain applications and can be used in place of a “BR”.

# RENATA

## Renata Special Swiss Batteries

<b>R44</b>	\$ 19.95	<b>R362</b>	\$ .40
<b>R315</b>	.65	<b>R364</b>	.35
<b>R321</b>	.45	<b>R371</b>	.45
<b>R333</b> (OLD #42)	19.95	<b>R750</b> DISC. USE R751	
<b>R339</b> (OLD #52)	1.50	<b>R751</b>	17.95

To assure freshness we recommend only ordering as needed

**Technical Note:** Renata recommends that their 2 volt lithium cells *not* be tested prior to installation. Some testers draw more current than these cells are designed to allow. This decreases the life of the cell and may cause the tester to give an incorrect reading. Use only a high impedance (1-mega-ohm) voltmeter to test these cells.

## Nickel Hydride Rechargeables Ni-MH

AA NiMH	\$ 6.00/pk of 2	Cost effective for applications that drain battery power rapidly, like digital cameras.
AAA NiMH	6.00/pk of 2	
C NiMH	9.90/pk of 2	
D NiMH	9.90/pk of 2	
9V NiMH	9.95 EACH	

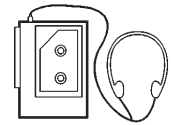
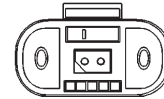
The NiMH is better and longer lasting than NiCads and does not have the restrictive memory effects. The NiMH type requires its own charger. Do not try to charge any NiMH type battery in an older charger meant only for Nicads, it's hazardous.

### New Dual Chemistry Chargers

**BC-M4AA** FOR Ni-MH & Nicad (AA, AAA, & 9V) \$ 17.95  
 Above charger includes 2 AA size NiMH cells

**BC-M4FC** FOR Ni-MH & Nicad (AA, AAA, 9V, C,D) \$19.95

# General Purpose Batteries



Used in flashlights, clocks, toys, radios, tape recorders, smoke detectors, remote controllers, and other electronic devices.

## Eveready Alkaline Cells

AA \$ .45, <del>.36</del> @16 pcs	C cell .85 .75 @ 8 pcs
<b>AA SPECIAL - .31@16 pcs.</b>	D cell .90, .85 @ 8 pcs
AAA .50, .40 @16 pcs	N cell .85, .75 @ 5 pcs
AAAA 1.00 EA.	9V 1.60, 1.50 @ 4pcs

## Lithium

AA LITHIUM	\$ 2.50 EACH
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### Special Limited Time Offer on AA batteries



**Save 5¢** on each cell when you buy a pack of 16 Eveready Gold Alkaline AA batteries. Regularly 36¢ each at the 16 pc rate. Now for a limited time **only 31¢ each** (\$ 4.96 total) - *while supplies last*

# New Recharger for Seiko Kinetics



Newly designed by Seiko for their Kinetic line of watches.  
 For models: 1M, 3M, 4M, 5M, 5J, 7L, 9T.  
 Accelerates the charging of run-down Kinetic watches.

- Useful to charge up watches for sale.
- To quickly charge up customer's watches that have come in stopped.
- Resale to Kinetic customers who don't wear their watch often enough to keep charged.

Position watch in the center, aligning crown properly, depending on model. Timer switch can be set to either the 30 minute or the 3.5 hour mode, depending on whether you desire a quick charge to bring up to the 1 second mode, or a full charge. Then press start. Measures approx. 6 x 6".

**#TS-SKinetic \$ 69.90**  
**3pcs. @ \$ 65.00 ea.**

# Capacitors

The new quartz solar cell & kinetic oscillator movements store electrical energy in a capacitor or rechargeable cell (Citizen calls them secondary batteries). They may resemble a regular battery but function differently. Be sure the watch has been properly charged (by wrist movement or adequate exposure to the sun) before considering replacing. It should only be replaced if the problem is determined to be the capacitor. For Seiko & Citizen we need the movement # (or full case number) to determine the proper capacitor to send you. The marking on the can (ex. MT920) does not provide enough information. Listed below are the popular capacitors for Seiko, Citizen, & Swatch.



Citizen #	Jlrs Cost
295-29	\$ 12.00
295-33	use 295-55
295-37	use 295-55
295-40	12.00
295-45	use 295-63
295-55	12.00
295-61	12.00
295-63	12.00

Citizen has a 5 year warranty on Eco-drive. Call 800-321-1023 for questions

Seiko# (Caliber)	Jlrs Cost
3023 24X	\$ 12.25
3023 24Y	12.25
3023 44Z (5M62)	12.25
3023 5MZ (5M22)	7.95
3027 29N	use 3027 3MZ
3027 29R	13.50
3027 29Y	18.50
3027 3MZ (3M22)	9.95
3027 4MZ (4M21)	10.95
3029 001	10.95
3029 011	use 3027 3MZ
3029 110 (7M22, 7M42, 7M45)	use 3023 24R
3029 111	use 3023 5MZ
3029 113 (for 5M42, 5M43)	use 3023 5MZ
3029114	use 3027 4MZ
3029116	use 3027 4MZ

## New for Swatch (2.4v)

	<b>GC920/Renata</b> 2.4V 0.33F \$ 5.95
	<b>GC1120/Renata</b> 2.4V 0.47F \$ 5.95

Become *the source* in your area  
for all miniature batteries.

## Hard to Find Batteries

<u>Battery</u>	<u>Voltage</u>	<u>Application</u>	<u>Each</u>
A76 (LR44)	1.5	Photo-Alkaline	\$ .60
A544 (4LR-44P)	6	Photo-Alkaline	2.50
CR123	3	Photo-Lithium	3.00
CR2	3	Photo-Lithium	3.75
CRP2	6	Photo-Lithium	6.00
2CR5	6	Photo-Lithium	6.00
J (539) Alk.	6	Remote controls	3.00
SR850 (MR8508)	1.5	Cartier Clock	39.50
		3 pc.	\$35 ea.
LR50	1.5	Clock, Alkaline	3.50
E625G	1.5	Clock, Alkaline	2.60
GP23 (RV08)	12	Lighters, remotes	.90
GP27	12	Lighters, remotes	1.40



### Battery Alternatives for "Cartier" Clock

Swiss LeClanche silver-cell 15.6D x 16mm H  
Best replacement for the discontinued MR8508.

**SR850 \$ 39.50, 3@ \$ 35 each.**

Other alternatives: these will only last one-quarter  
to one-half as long.

Alkaline replacement LR50 \$ 3.75  
Adapter to use with E625G. BAT-850 \$ 4.50

14

## Hearing Aid Batteries

Hearing aids consume up to 1 battery a day! Sell a nationally recognized brand. Made in the U.S.A. These cells are all you need for the most current models. These are sold in small cards of 4 or 8 that the consumer installs.



**RAYOVAC**

Loud 'n Clear™  
in 4-packs

**Energizer**

Amplifier  
in 8-packs

## Zinc Air Hearing Aid Batteries

Battery #	Rayovac Card of 4	Battery #	Energizer Card of 8
L10ZA	\$ 3.60/card	AC10	\$ 5.85/card
L13ZA	3.25/card	AC13	5.50/card
L312ZA	3.25/card	AC312	5.50/card
L675ZA	3.25/card	AC675	5.50/card

New size from  
Panasonic

PR5PA \$ 3.60/card of 4

15

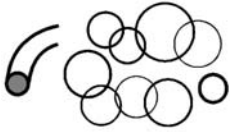


## Handy Extra Parts Mixtures



### Battery Change Parts MQA-200 \$ 29.95

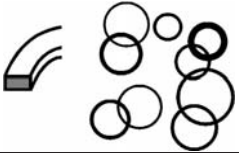
Contains 200 pcs. battery clamps, clamp screws, module screws, insulators, & hatch gaskets.



### Cell Hatch Gasket-Oring

Assortment of 50 O-ring type gaskets for battery hatches.

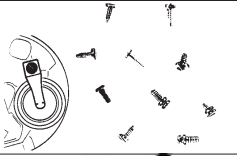
**MQA-2 \$ 6.95**



### Cell Hatch Gaskets- Flat

Assortment of 25 flat type gaskets for battery hatches.

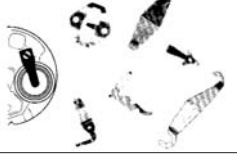
**MQA-1 \$ 8.95**



### Cell Strap Screws

100 Screws for cell straps.

**MQA-6 \$ 11.50**



### Cell Straps

25 assorted cell straps, mostly for Swiss calibers.

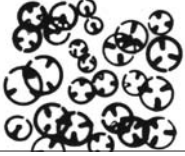
**MQA-7 \$ 8.95**



### Insulators

Assortment of 144 pieces various sizes of battery insulators.

**MQA-144 \$ 16.50**



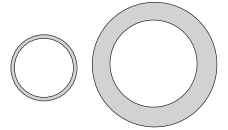
### Battery Contact Springs

Assortment of 30 battery contact springs.

**BG10221 \$ 6.90**

16

## Replacements using adapter rings for the 388 & 355 & 201(Ham 500, 505) cells



Use these adapter rings with another battery # as a replacement for the # 388, # 355, and # 201(for Ham. 500/505 only) which have not been available for some time. The batteries are sold separately.

<u>adapter Ring</u>	<u>For Old #</u>	<u>Use battery</u>	<u>Price</u>
<b>388/329 Ring</b>	<b>388</b>	<b>329</b>	<b>\$ 1.60</b>
<b>355/357 Ring</b>	<b>355</b>	<b>357/303</b>	<b>1.75</b>
<b>201/394 Ring</b>	<b>201(Ham 500,501)</b>	<b>394/380</b>	<b>2.50</b>



## Battery AdaSpacers

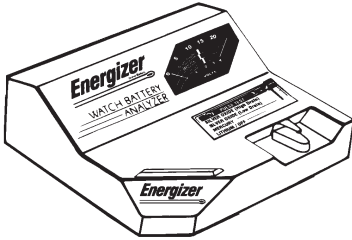
Special discs (.25" in dia.) to alleviate spatial differences between the battery & caseback. This space may allow the battery to lose touch with the negative battery contact. Use of an AdaSpacer will help hold the battery in place. A report that a watch (with a good battery) runs erratically, could be a sign of momentary lost battery contact. Attaches to the battery and adds about 1.3mm in thickness. 25 per package.

**AdaSpacer \$ 3.95/pkg.**

<b>Battery Change Date Labels</b>	<b>Dial Dots, Dial Strips, &amp; Dial Squares</b>
<p>Light blue 1/4 inch round labels to apply to the inside of case back to record battery change date. 450 labels per pkg.</p> <p><b>TA 404RB \$1.40 /pkg.</b></p>	<p>Special double sided adhesive discs (3mm dia.), strips (2 x 12mm), and squares (3 x 3mm) to hold dial to movement where the dial feet are missing. 100/ pkg.</p> <p><b>Dial Dots \$ 3.50 /pkg.</b>  <b>Dial Strips 3.50 /pkg.</b>  <b>Dial Squares 3.95 /pkg.</b></p>

17

## Battery Tester/Analyzer



Dual function instrument. Tests batteries and analyzes movement while still in the watch case. Test results indicated with lights & audio beeps. Includes a 9V battery.

# W3000 **\$ 50.00**  
 With the purchase of 60 asst. batteries. **\$ 40.00**

## Energizer Miniature Battery Tester

New modern style, tests high & low drain silver, mercury, and lithium.

# EWB1 **\$ 15.95**



## Improved Watch Analyzer



Besides checking batteries, this improved tester will also allow you to check the step-motor & coil.

TS200.00 **\$ 39.95**

18

## Master Battery Kit



- Selvyt cloth\*
- Battery tester\*
- 6-Pak Mini-tray\*
- **240 cells**, quantity balanced by popularity.  
 Contains: **36-377**; **30-364**; **18-371/370**, 379, 395/399; **12-362/361**, 397/396; **6-315**, 317, 319, 321, 341, 344, 357/303, 373, 390/389, 392/384, 393, 394/380; **5-337**, CR2016, CR2025, CR2032; **4-AA**
- 60 drawer cabinet w/labels for extra storage (# BX-60)
- Battery size checker gauge (# BAT SIZER)\*
- Counter sign, and cabinet decal\*
- Battery cross-reference (# BAT XREF)\*
- Battery changing instruction pak (# BAT INST)\*
- Battery change tool kit, which includes Plastic\* & metal tweezers\*, case knife\*, screwdriver set\*, spring bar tool\*, fiberglass contact brush, & WP case opener.

#MBA **Master Battery Kit** **\$ 145.00**  
 BX-60 60-drawer cabinet only **\$ 24.00**

## Starter Battery kit

Covers 80% of your needs, based on popularity. Contains 180 most asked for batteries in 6-Paks, and the basic tools & items above marked with an asterisk.

#SBA **Battery Starter Kit** **\$ 81.00**

19

## Battery Saver Compartment Cleaner



***Keep batteries working stronger longer!***

- ☆ *Picks up the corrosion particles out of the battery compartment simply by touching with the wet felt tip.*
- ☆ *Neutralizes the acid from a leaky battery*
- ☆ *Coats the battery terminals to provide better current flow.*
- ☆ *Prevents oxidation of the battery terminals*

The Battery Saver 'pen' has a felt-tip to apply a mixture of citrus and mineral oil. The citrus, a very mild acid, cleans & neutralizes the hydroxide which may have leaked from the battery. The mineral oil prevents oxidation (which can impede current flow). Using a fiberglass brush can cause problems such as tiny fragments of fiberglass falling into the watch. When replacing a leaking battery, use the pen to clean the cell compartment, the insulator, and the negative battery strap. The felt tip of the pen picks up the alkaline crystals without contaminating the movement.

**T8600**

**Battery Saver**

**\$ 3.99**

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