

# ALUMINUM BATTERY HOLDERS

Designers' Choice



## MATERIAL SPECIFICATIONS

Insulating Washers: Moisture proof, resin impregnated fibre  
Terminal Lugs: Brass, Tin Plate

Frame and Clips: Aluminum 2024-T3  
Contact Eyelet: Brass, Nickel Plate

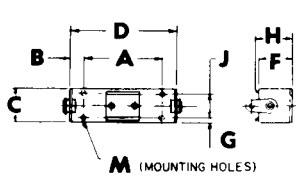


FIG. 1

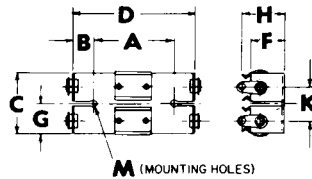


FIG. 2

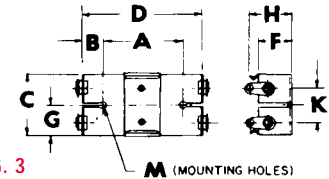


FIG. 3

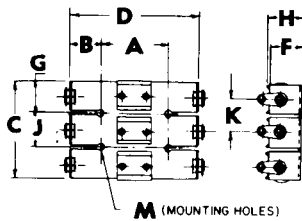


FIG. 4

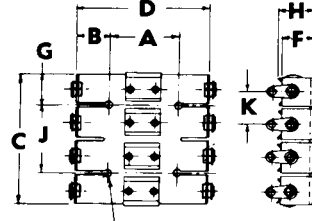


FIG. 5

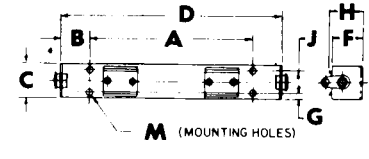


FIG. 6

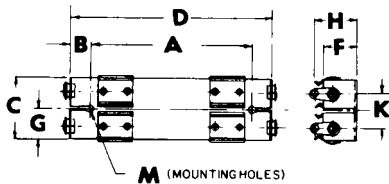


FIG. 7

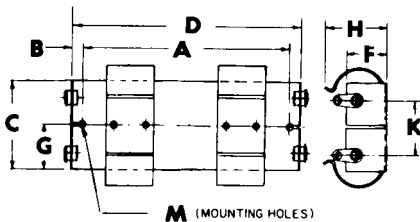


FIG. 8

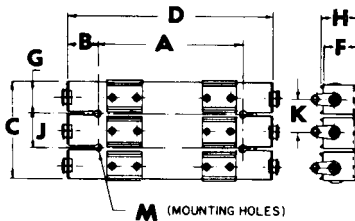


FIG. 9

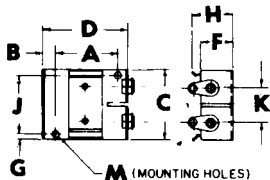


FIG. 10

CAT. NO.	FIG. NO.	±.010 A	±.015 B	±.010 C	±.015 D	±.010 F	±.010 G	±.015 H	±.005 J	±.010 K	MTG HOLES M ±.003
*109	1	1.500	.218	.625	1.937	.609	.109	.625	.406	—	4#30(.128 Dia)
*110	1	1.500	.437	.625	2.374	.625	.109	.625	.406	—	4#30(.128 Dia)
132	1	1.125	.171	.625	1.468	.640	.093	.625	.437	—	4#34(.111 Dia)
*134	1	1.812	.484	.625	2.781	.609	.093	.625	.437	—	4#34(.111 Dia)
*135	6	2.500	.464	.625	3.430	.610	.093	.625	.437	—	4#30(.128 Dia)
137	1	1.500	.218	.437	1.915	.468	.093	.484	.250	—	2#34(.111 Dia)
138	2	.875	.531	.812	1.915	.468	.406	.484	—	.437	2#28(.140 Dia)
139	1	1.500	.312	.625	2.140	.625	.109	.580	.406	—	4#34(.111 Dia)
140	2	1.218	.461	1.125	2.140	.625	.562	.625	—	.625	2#28(.140 Dia)
154	1	.906	.242	.437	1.343	.468	.093	.531	.250	—	2#34(.111 Dia)
155	2	.875	.245	.937	1.343	.484	.468	.531	—	.500	2#30(.128 Dia)
156	4	.875	.257	1.500	1.343	.475	.468	.531	.562	.531	4#34(.111 Dia)
*157	10	1.125	.218	1.250	1.562	.578	.109	.718	1.032	.593	2#34(.111 Dia)
*160	1	3.500	.406	1.000	4.312	.960	.141	1.218	.718	—	2#28(.140 Dia)
*163	1	1.125	.312	1.000	1.750	.687	.141	1.218	.718	—	2#28(.140 Dia)
*164	1	1.625	.402	1.000	2.430	.687	.125	1.218	.750	—	2#28(.140 Dia)
*165	1	2.187	.390	1.000	2.968	.687	.141	1.218	.718	—	2#28(.140 Dia)
166	1	1.000	.312	.750	1.625	.768	.093	1.156	.562	—	4#28(.140 Dia)
167	3	1.000	.312	1.125	1.593	.750	.562	1.264	—	.593	2#28(.140 Dia)
*168	1	1.500	.377	.750	2.275	.718	.125	.937	.500	—	4#28(.140 Dia)
170	5	.875	.531	1.687	1.915	.468	.406	.484	.875	.437	4#28(.140 Dia)
171	4	1.218	.461	1.750	2.140	.625	.562	.625	.625	.625	4#28(.140 Dia)
173	1	1.500	.296	.750	2.093	.781	.156	.953	.437	—	4#28(.140 Dia)
174	3	1.750	.172	1.625	2.093	.781	.812	1.105	—	1.000	2#28(.140 Dia)
175	1	1.750	.406	1.000	2.562	.937	.125	1.218	.750	—	4#30(.128 Dia)
176	3	2.093	.248	2.062	2.578	.937	1.030	1.437	—	1.312	2#28(.140 Dia)
177	1	1.500	.312	.750	2.125	.781	.156	1.156	.437	—	4#28(.140 Dia)
178	3	1.218	.453	1.125	2.215	.781	.562	1.218	—	.625	2#28(.140 Dia)
*179	1	.937	.250	1.000	1.425	.930	.125	1.218	.750	—	4#30(.128 Dia)
182	5	1.218	.461	2.656	2.140	.625	.609	.625	1.437	.718	4#28(.140 Dia)
183	1	1.750	.445	.750	2.687	.812	.093	1.156	.562	—	4#34(.111 Dia)
184	3	1.812	.414	1.125	2.640	.812	.562	1.218	—	.625	2#28(.140 Dia)
185	6	3.187	.419	.750	4.025	.812	.125	.953	.500	—	4#28(.140 Dia)
186	6	4.125	.370	1.000	4.865	.968	.156	1.218	.687	—	4#30(.128 Dia)
187	4	1.250	.435	2.840	2.093	.781	.812	.953	1.125	1.125	4#28(.140 Dia)
189	6	3.000	.538	.625	4.075	.625	.093	.625	.437	—	4#30(.128 Dia)
190	4	1.937	.321	3.375	2.578	.968	1.125	1.218	1.125	1.343	4#28(.140 Dia)
192	7	3.093	.542	1.125	4.093	.625	.593	.625	—	.625	2#28(.140 Dia)
193	9	3.125	.484	1.750	4.075	.625	.562	.625	.625	.625	4#28(.140 Dia)
196	8	3.187	.419	1.625	4.025	.781	.812	1.125	—	1.000	2#28(.140 Dia)
197	9	3.187	.419	2.875	4.025	.812	.937	.968	1.000	1.171	4#28(.140 Dia)
200	8	4.375	.245	2.062	4.865	.968	1.032	1.468	—	1.312	2#28(.140 Dia)
201	9	4.275	.245	3.375	4.865	.968	1.125	1.218	1.125	1.343	4#28(.140 Dia)
203P	10	1.375	.312	1.125	2.000	.547	.125	.793	.875	.500	4#30(.128 Dia)
205	8	6.812	.250	2.062	7.230	.937	1.030	1.437	—	1.312	4#28(.140 Dia)
*225	1	1.125	.226	.625	1.578	.609	.093	.625	.437	—	4#34(.111 Dia)
*226	2	.875	.351	1.125	1.578	.609	.562	.625	—	.625	2#28(.140 Dia)
1290	10	1.375	.218	1.185	1.890	.562	.125	.718	.875	.500	4#30(.128 Dia)
1291	10	1.375	.218	1.185	1.890	.562	.125	.718	.875	.500	4#30(.128 Dia)

\*Special order only

Dimensions are for reference only

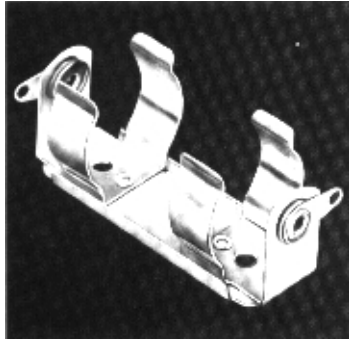


Designers' Choice

# STEEL BATTERY HOLDERS

## RUGGED STEEL BATTERY HOLDERS

An established design that has gained wide acceptance for commercial and military applications. Batteries are held under constant spring tension assuring low contact resistance. Retainer clips are available to lock batteries in place and prevent shifting or loosening of the batteries. Recommended for use where shock or severe vibration is encountered. Special fabrication for more than four batteries or variations from standard stock parts can be assembled to meet your requirements.



- Ideal for NiCd, Alkaline, NiMH, Carbon, Zinc and Lithium Cells
- Corrosion Resistant, Nickel Plate
- Brass Contacts, Nickel Plate
- Moisture Proof Resin Impregnated, Fibre Insulating Washers

### 1100 SERIES

(GROUNDED ONE SIDE)



DIMPLE CONTACT

INSULATED CONTACT

### 2100 SERIES

(FULLY INSULATED)



INSULATED CONTACTS

### INSULATOR TUBES SUPPLIED FOR 2-3-4 CELLS END TO END

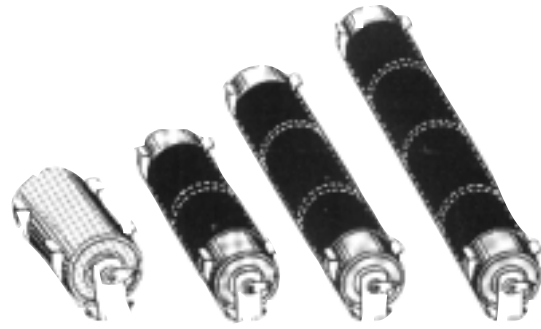


FIG. 19

FIG. 20

FIG. 21

FIG. 22

PHENOLIC BASE

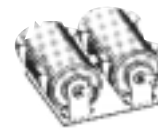


FIG. 23

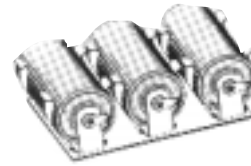


FIG. 24

PHENOLIC BASE



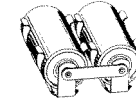
FIG. 25

### MODIFICATIONS AVAILABLE

Use our engineering services for your custom battery holders or modifications to our standard products.

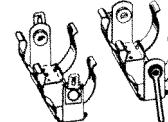
#### JUMPERS

Jumpers permit cost saving and eliminates wiring.



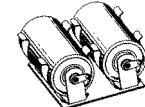
#### SPECIAL LUGS

Printed Circuit, Solderless or Quick-Fit Lugs available for your special connection requirements.



#### MULTIPLE UNITS

Jumpers, special lugs and polarized contacts available for custom applications.



#### POLARIZED CONTACTS

Assure proper battery insertion and correct polarity.

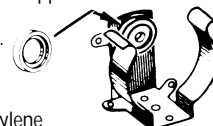


1100 SERIES		2100 SERIES		BATTERY CROSS REFERENCE			
ONE CONTACT INSULATED	ALL CONTACTS INSULATED	FIG. NO.	HOLDS NO. OF CELLS	All Batteries listed within boxes are in the same size group			
CAT. NO.	CAT. NO.			EVEREADY	DURACELL	RAY-O-VAC	NEDA
<b>"AA" CELL HOLDERS</b>				(BATTERY SIZE $\frac{531}{565}$ O.D. $\times$ $\frac{1.906}{1.988}$ H)			
1139	2139	19	1	E9, EV15, EN91, CH15, E133, E133N, E177, 505, 523, 1015, 1215	ZM9, RM12R, NC15AA, M15F, M15AA, TR133R, TR177, M505, MN1500, PC1500	5AA, 615, 815, 7AA	15, 15A, 15C, 15D, 15F, 15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M
—	2140*	23	2				
—	2171*	24	3				
—	2182*	25	4				
1189	2189	20	2				
1191	2191	21	3				
1194	2194	22	4				
<b>"C" CELL HOLDERS</b>				(BATTERY SIZE $\frac{.875}{1.125}$ O.D. $\times$ $\frac{1.875}{1.969}$ H)			
1173	2173	19	1	CH35, E93, 935, 1235, EV35, EN93	M14F, M14HD, NC14C, TR286, MN1400, PC1400	1C, 614, 814	14A, 14C, 14D, 14F, 14NC, 1600M
—	2174*	23	2				
—	2187*	24	3				
—	2188*	25	4				
1185	2185	20	2				
1195	2195	21	3				
1198	2198	22	4				
<b>"D" CELL HOLDERS</b>				(BATTERY SIZE $\frac{1.187}{1.375}$ O.D. $\times$ $\frac{2.312}{2.412}$ H)			
1175	2175	19	1	CH50, E95, 950, 1250, EV50, EN95	M13F, NC13D, S42, M13HD, TR289, MN1300, PC1300	2D, 6D, 613, 813	13A, 13C, 13D, 13F, 13NC, 1115M, 1810M
—	2176*	23	2				
—	2190*	24	3				
—	2192*	25	4				
1186	2186	20	2				
1199	2199	21	3				
1162	2162	22	4				

\*Clips mounted on Phenolic 1/16" thick

## INSULATED POLARIZING WASHERS

Prevents improper connection of battery which may cause damage to electronic equipment. Washers hold securely when snapped over eyelets. Used on our standardized battery holders. For AA, C & D cells.



**MATERIAL:** Molded Polyethylene

**CAT. NO. 59 (RED) CAT. NO. 60 (BLACK)**

# STEEL BATTERY HOLDERS

Designers' Choice

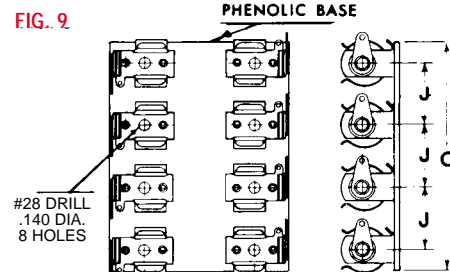
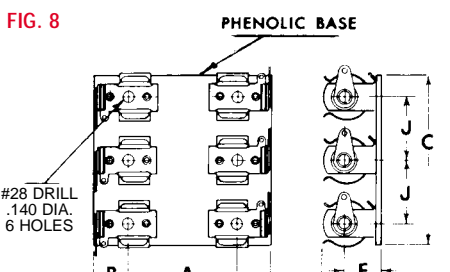
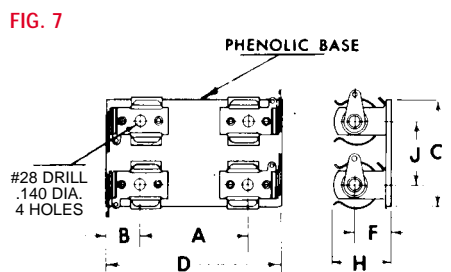
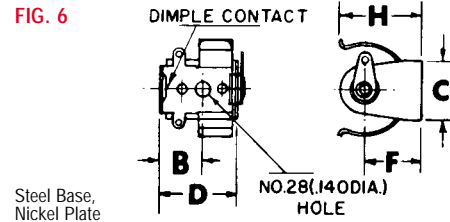
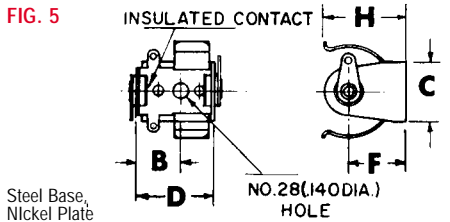
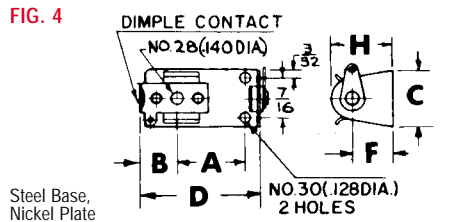
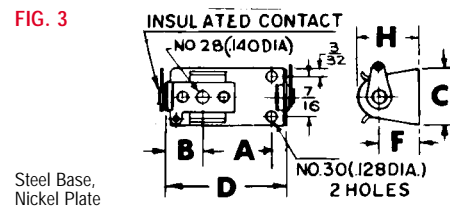
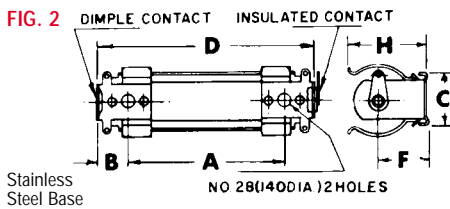
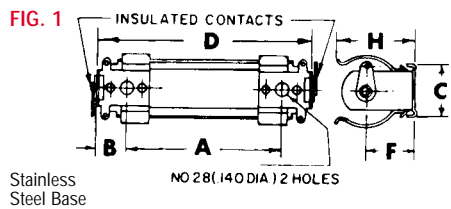


## MATERIAL SPECIFICATIONS

Clips: Spring Steel, Nickel Plate  
 Contact Eyelets: Brass, Nickel Plate  
 Insulating Washers: Moisture Proof, Resin Impregnated Fibre

Terminal Lugs: Brass, Tin Plate  
 Phenolic Base: Type PBE, Per MIL-P-3115C  
 Base: Ribbed Stainless Steel, For Added Support

## DIMENSIONAL DRAWINGS FOR STEEL BATTERY HOLDERS



CAT. NO.	FIG.	±.005 A	±.015 B	±.010 C	±.015 D	±.010 F	±.020 H	CAT. NO.	FIG.	±.005 A	±.015 B	±.010 C	±.015 D	±.010 F	±.020 H	±.005 J
*1101	4	.281	.391	.625	.812	.437	.656	*2116	3	.718	.391	.625	1.281	.437	.656	—
*1104	6	—	.468	.625	.890	.750	1.281	*2125	1	3.906	.391	.687	4.687	.437	.656	—
*1109	2	1.156	.391	.687	1.937	.437	.656	*2132	3	.937	.391	.625	1.484	.437	.656	—
*1110	2	1.562	.391	.687	2.343	.437	.656	*2134	1	2.000	.391	.687	2.781	.437	.656	—
*1113	4	.484	.391	.625	1.031	.437	.656	*2135	1	2.625	.391	.687	3.406	.437	.656	—
*1114	4	.671	.391	.625	1.218	.437	.656	2139	1	1.343	.391	.687	2.125	.437	.656	—
*1116	4	.734	.391	.625	1.281	.437	.656	2140	7	1.343	.406	1.250	2.125	.437	.656	.750
*1125	2	3.906	.391	.687	4.687	.437	.656	*2142	1	1.265	.391	.687	2.047	.437	.656	—
*1132	4	.937	.391	.625	1.484	.437	.656	*2144	1	2.000	.391	.687	2.781	.625	1.000	—
*1134	2	2.000	.391	.687	2.781	.437	.656	*2145	3	.828	.391	.625	1.312	.437	.656	—
*1135	2	2.625	.391	.687	3.406	.437	.656	2162	1	8.687	.468	.687	9.625	.796	1.281	—
*1139	2	1.343	.391	.687	2.125	.437	.656	2171	8	1.343	.406	2.000	2.125	.437	.656	.750
*1142	2	1.265	.391	.687	2.047	.437	.656	2173	1	1.343	.391	.687	2.125	.625	1.000	—
*1144	2	2.000	.391	.687	2.781	.625	1.000	2174	7	1.343	.356	1.750	2.062	.625	1.000	1.187
*1145	4	.828	.391	.625	1.312	.437	.656	2175	1	1.625	.468	.687	2.562	.796	1.281	—
1162	2	8.687	.468	.687	9.625	.796	1.281	2176	7	1.625	.468	2.125	2.562	.796	1.281	1.562
1173	2	1.343	.391	.687	2.125	.625	1.000	2182	9	1.343	.406	2.750	2.125	.437	.656	.750
1175	2	1.625	.468	.687	2.562	.796	1.281	2185	1	3.312	.391	.687	4.093	.625	1.000	—
1185	2	3.312	.391	.687	4.093	.625	1.032	2186	1	4.000	.468	.687	4.937	.796	1.281	—
1186	2	4.000	.468	.687	4.937	.796	1.281	2187	8	1.343	.356	2.937	2.062	.625	1.000	1.187
1189	2	3.312	.391	.687	4.093	.437	.656	2188	9	1.343	.356	4.125	2.062	.625	1.000	1.187
1191	2	5.218	.391	.687	6.000	.437	.656	2189	1	3.312	.391	.687	4.093	.437	.656	—
1194	2	7.205	.391	.687	7.985	.437	.656	2190	8	1.625	.468	3.687	2.562	.796	1.281	1.562
1195	2	5.156	.391	.687	5.937	.625	1.000	2191	1	5.250	.391	.687	6.030	.437	.656	—
1198	2	7.125	.391	.687	7.906	.625	1.000	2192	9	1.625	.468	5.250	2.562	.796	1.281	1.562
1199	2	6.343	.468	.687	7.281	.796	1.281	2194	1	7.230	.391	.687	8.010	.437	.656	—
*2101	3	.281	.391	.625	.812	.437	.656	2195	1	5.156	.391	.687	5.937	.625	1.000	—
*2104	5	—	.468	.625	.890	.750	1.281	2198	1	7.125	.391	.687	7.906	.625	1.000	—
*2109	1	1.156	.391	.687	1.937	.437	.656	2199	1	6.343	.468	.687	7.281	.796	1.281	—
*2110	1	1.562	.391	.687	2.343	.437	.656	*Special order only. Dimensions B, D, F, H should be used for reference								
*2113	3	.484	.391	.625	1.031	.437	.656									
*2114	3	.671	.391	.625	1.218	.437	.656									

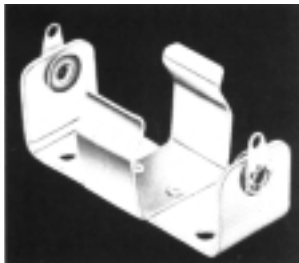


Designers' Choice

# ALUMINUM BATTERY HOLDERS

A standard line of battery holders available for immediate shipment from stock. Low cost, lightweight and sturdily constructed of quality materials. Good electrical contact, low leakage current and snap-fit clips are the outstanding features.

**MODIFICATIONS:** We welcome the opportunity to quote on variations of standard items. Use our engineering service for your special custom-built holders. Holders with PC and Quick-Fit terminals available on special order.



- Brass Eyelets, Nickel Plate
- Brass Lugs, Nickel Plate
- Moisture Proof, Resin Impregnated, Fibre Insulating Washers
- Aluminum 2024-T3, Frame & Clip

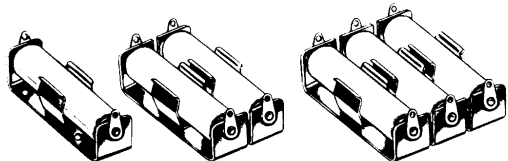


FIG. 1

FIG. 2

FIG. 3

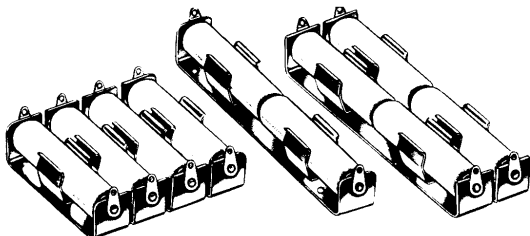


FIG. 4

FIG. 5

FIG. 7

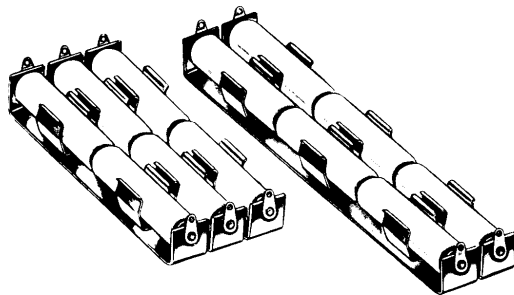


FIG. 8

FIG. 12

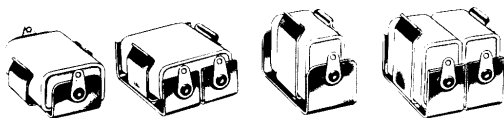


FIG. 9

FIG. 10

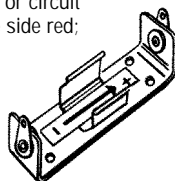
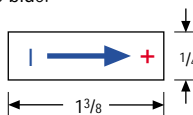
FIG. 11

FIG. 14

## POLARITY INDICATING LABEL

- No Gluing or Wetting Needed
- Economical
- Pressure Sensitive Adhesive Back
- Adheres To All Surfaces

Recommended where proper polarity of battery insertion or circuit polarity is to be shown. Labels are two color, (+) positive side red; arrow, (-) negative side blue.



CAT. NO. 58

Ideal for Alkaline, Carbon, Zinc, NiMH  
NiCd and Lithium Cells.

DIMENSIONAL DRAWINGS ON THE FOLLOWING PAGE

CAT. NO.	HOLDS NO. OF CELLS	FIG. NO.	BATTERY CROSS REFERENCE			
			EVEREADY	DURACELL	RAY-O-VAC	NEDA
<b>"AAA" CELL HOLDER</b>			(BATTERY SIZE $\frac{.375}{.468}$ O.D. $\times$ $\frac{1.673}{1.752}$ H)			
137	1	1				
138	2	2	E92,	M24F,	824	24A,
169	3	3	912, CH12	MN2400		24F, 24P
170	4	4				
<b>"AA" CELL HOLDERS</b>			(BATTERY SIZE $\frac{.531}{.565}$ O.D. $\times$ $\frac{1.906}{1.988}$ H)			
139	1	1				
140	2	2	E9, EV15,	ZM9, RM12R,		15, 15A, 15C,
171	3	3	EN91, CH15,	NC15AA,		15D, 15F,
182	4	4	E91, E133,	M15F, M15AA,	5AA,	15M, 15NC,
189	2	5	E133N, E177,	TR133R,	615,	221,
192	4	7	505, 523,	TR177, M505,	815, 7AA	1101M, 1113M,
193	6	8	1015, 1215	MN1500,		1306AP,
				PC 1500		1306M,
						1314M, 1606M
<b>"C" CELL HOLDERS</b>			(BATTERY SIZE $\frac{.875}{1.125}$ O.D. $\times$ $\frac{1.875}{1.969}$ H)			
173	1	1				
174	2	2*				
187	3	3	CH35,	M14F,		
185	2	5	E93, 935,	M14HD,	1C,	14A, 14C,
196	4	7*	1235, EV35,	NC14C,	614,	14D, 14F,
197	6	8	EN93	TR286,	814	14NC,
				MN1400,		1600M
				PC1400		
<b>"D" CELL HOLDERS</b>			(BATTERY SIZE $\frac{1.187}{1.375}$ O.D. $\times$ $\frac{2.312}{2.412}$ H)			
175	1	1				
176	2	2*				
190	3	3	CH50,	M13F,		
186	2	5	E95, 950,	NC13D, S42,	2D, 6D,	13A, 13C,
200	4	7*	1250, EV50,	M13HD,	613,	13D, 13F,
201	6	8	EN95	TR289,	813	13NC,
205	6	12*		MN1300,		1115M,
				PC1300		1810M
<b>"N" CELL HOLDERS</b>			(BATTERY SIZE $\frac{.375}{.468}$ O.D. $\times$ $\frac{1.110}{1.189}$ H)			
154	1	1	E90,			
155	2	2	E340E, E401E,	MP401H	R401, RP401,	910A, 910F,
156	3	3	EP401E		810	910M, 1117M,
						1118M
						MN9100
<b>"9 VOLT" BATTERY HOLDERS</b>						
139B	1	1	206	M1611	—	1611
173P	1	1	226	—	—	1600
203P	1	10	CH22, EN22,	TR146X,	A1604,	1604, 1604A,
1290	REF. PAGE 21		E146X, 216,	M1604,	D1604,	1604C, 1604D,
1291			522, 1222,	M1604HD,	1604	1604M,
			E303396	MN1604,		1604NC,
				PC146X,		1619M
				PC1604		
<b>"15 VOLT" BATTERY HOLDERS</b>						
163	1	9	—	—	—	224
161	1	9	—	—	—	—
166	1	11	411	—	—	208
167	2	14	—	—	—	—
225	1	1	—	—	—	—
226	2	2	504	—	—	220
<b>"22 1/2 VOLT" BATTERY HOLDERS</b>						
139	1	1	505	—	—	221
168	1	9	420	—	—	225
177	1	11	—	—	—	—
178	2	14	412	M215	—	215
<b>"30 VOLT" BATTERY HOLDERS</b>						
183	1	11	—	—	—	—
184	2	14	413	—	—	210

\*\*C" Cell Holders-Dual Cat. No. 97 clips used

"D" Cell Holders-Dual Cat. No. 98 clips used





Designers' Choice

# INTERCONNECT BATTERY HOLDERS

## ALUMINUM HOLDERS CONNECTED IN SERIES

### ELIMINATES WIRING • LABOR SAVING

Features pre-connected jumper strap insulated from the Aluminum base. Batteries held in series circuit without need of additional wiring.

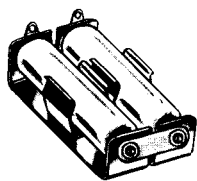


FIG. 2

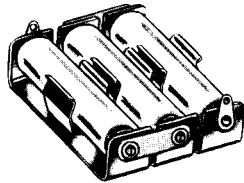


FIG. 3

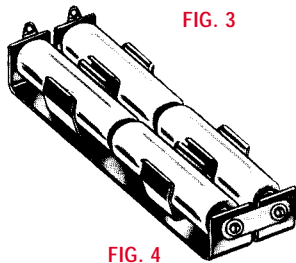


FIG. 4

CAT. NO.	HOLDS NO. OF CELLS	FIG. NO.	BATTERY CROSS REFERENCE			
			EVEREADY	DURACELL	RAY-O-VAC	NEDA
All Batteries listed within boxes are in the same size group						
<b>"AA" CELL HOLDERS</b> (BATTERY SIZE $\frac{.531}{.565}$ O.D. $\times$ $\frac{1.906}{1.988}$ H)						
146	2	2	E9, EV15, EN91, CH15, E133, E133N, E177, 505, 523, 1015, 1215	ZM9, RM12R, NC15AA, M15F, M15AA, TR133R, TR177, M505, MN1500, PC1500	5AA, 615, 815, 7AA	15, 15A, 15C, 15D, 15F, 15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M
147	3	3				
148	4	4				
<b>"C" CELL HOLDERS</b> (BATTERY SIZE $\frac{.875}{1.125}$ O.D. $\times$ $\frac{1.875}{1.969}$ H)						
149	2	2	CH35, E93, 935, 1235, EV35, EN93	M14F, M14HD, NC14C, TR286, MN1400, PC1400	1C, 614, 814	14A, 14C, 14D, 14F, 14NC, 1600M
150	3	3				
151	4	4				
<b>"D" CELL HOLDERS</b> (BATTERY SIZE $\frac{1.187}{1.375}$ O.D. $\times$ $\frac{2.312}{2.412}$ H)						
152	2	2	CH50, E95, 950, 1250, EV50, EN95	M13F, NC13D, S42, M13HD, TR289, MN1300, PC1300	2D, 6D, 613, 813	13A, 13C, 13D, 13F, 13NC, 1115M, 1810M
153	3	3				
158	4	4				

## ALUMINUM HOLDERS WITH PC LUGS

### ELIMINATES WIRING • LABOR SAVING

For printed circuitry we have standardized our most popular holders with PC Lugs. Choice of single or multiple holders "AA" and "C" assembled with Cat. No. 4002 lug. "D" assembled with Cat. No. 4003 lug.

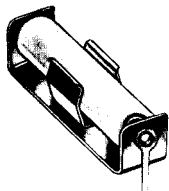


FIG. 1

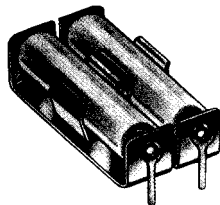


FIG. 2

CAT. NO.	HOLDS NO. OF CELLS	FIG. NO.	BATTERY CROSS REFERENCE			
			EVEREADY	DURACELL	RAY-O-VAC	NEDA
All Batteries listed within boxes are in the same size group						
<b>"AA" CELL HOLDERS</b> (BATTERY SIZE $\frac{.531}{.565}$ O.D. $\times$ $\frac{1.906}{1.988}$ H)						
2222	1	1	E9, EV15, EN91, CH15, E133, E133N, E177, 505, 523, 1015, 1215	ZM9, RM12R, NC15AA, M15F, M15AA, TR133R, TR177, M505, MN1500, PC1500	5AA, 615, 815, 7AA	15, 15A, 15C, 15D, 15F, 15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M
2223	2	2				
<b>"C" CELL HOLDERS</b> (BATTERY SIZE $\frac{.875}{1.125}$ O.D. $\times$ $\frac{1.875}{1.969}$ H)						
2224	1	1	CH35, E93, 935, 1235, EV35, EN93	M14F, M14HD, NC14C, TR286, MN1400, PC1400	1C, 614, 814	14A, 14C, 14D, 14F, 14NC, 1600M
2225	2	2				
<b>"D" CELL HOLDERS</b> (BATTERY SIZE $\frac{1.187}{1.375}$ O.D. $\times$ $\frac{2.312}{2.412}$ H)						
2226	1	1	CH50, E95, 950, 1250, EV50, EN95	M13F, NC13D, S42, M13HD, TR289, MN1300, PC1300	2D, 6D, 613, 813	13A, 13C, 13D, 13F, 13NC, 1115M, 1810M
2227	2	2				

## STEEL HOLDERS WITH PC LUGS

### ELIMINATES WIRING • LABOR SAVING

For printed circuitry we have standardized our most popular holders with PC Lugs. Choice of single or multiple holders "AA" and "C" assembled with Cat. No. 4002 lug. "D" assembled with Cat. No. 4003 lug.



FIG. 3

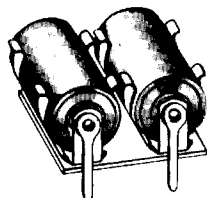


FIG. 4

CAT. NO.	HOLDS NO. OF CELLS	FIG. NO.	BATTERY CROSS REFERENCE			
			EVEREADY	DURACELL	RAY-O-VAC	NEDA
All Batteries listed within boxes are in the same size group						
<b>"AA" CELL HOLDERS</b> (BATTERY SIZE $\frac{.531}{.565}$ O.D. $\times$ $\frac{1.906}{1.988}$ H)						
2228	1	3	E9, EV15, EN91, CH15, E133, E133N, E177, 505, 523, 1015, 1215	ZM9, RM12R, NC15AA, M15F, M15AA, TR133R, TR177, M505, MN1500, PC1500	5AA, 615, 815, 7AA	15, 15A, 15C, 15D, 15F, 15M, 15NC, 221, 1101M, 1113M, 1306AP, 1306M, 1314M, 1606M
2229	2	4				
<b>"C" CELL HOLDERS</b> (BATTERY SIZE $\frac{.875}{1.125}$ O.D. $\times$ $\frac{1.875}{1.969}$ H)						
2230	1	3	CH35, E93, 935, 1235, EV35, EN93	M14F, M14HD, NC14C, TR286, MN1400, PC1400	1C, 614, 814	14A, 14C, 14D, 14F, 14NC, 1600M
2231	2	4				
<b>"D" CELL HOLDERS</b> (BATTERY SIZE $\frac{1.187}{1.375}$ O.D. $\times$ $\frac{2.312}{2.412}$ H)						
2232	1	3	CH50, E95, 950, 1250, EV50, EN95	M13F, NC13D, S42, M13HD, TR289, MN1300, PC1300	2D, 6D, 613, 813	13A, 13C, 13D, 13F, 13NC, 1115M, 1810M
2233	2	4				